

D. S. MITRINOVIC et R. S. MITRINOVIC

TABLEAUX
D'UNE CLASSE DE NOMBRES
RÉLIÉS AUX NOMBRES DE STIRLING
III

B E O G R A D

1963

ПОСЕБНА ИЗДАЊА МАТЕМАТИЧКОГ ИНСТИТУТА У БЕОГРАДУ

Математички институт у Београду у својим *Посебним издањима* објављиваће: монографије актуелних питања из математике и механике, оригиналне чланке већег обима, оригиналне нумеричке таблице итд. Ова публикација није периодична.

*

L'Institut mathématique de Beograd dans ses *Éditions spéciales* (Posebna izdanja) fera paraître des monographies sur des problèmes actuels de Mathématiques et de Mécanique, des articles originaux plus étendus, des tableaux numériques originaux etc. Les *Éditions spéciales* ne sont pas périodiques.

1. *D. S. Mitrinović et R. S. Mitrinović:*

Tableaux d'une classe de nombres reliés aux nombres de Stirling. III

2. *K. Milošević-Rakočević:*

Prilozi teoriji i praksi Bernoullievih polinoma i brojeva.

D. S. MITRINOVIC et R. S. MITRINOVIC

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1963

ПОСЕБНА ИЗДАЊА МАТЕМАТИЧКОГ ИНСТИТУТА

КЊИГА 1

Уредник

Д. С. Митриновић

ДРАГОСЛАВ С. МИТРИНОВИЋ и РУЖИЦА С. МИТРИНОВИЋ

ТАБЛИЦЕ ЈЕДНЕ КЛАСЕ БРОЈЕВА ПОВЕЗАНИХ
СА СТИРЛИНГОВИМ БРОЈЕВИМА

III

Саопштено 5. јула 1963. године на седници Одељења за анализу

Савезни фонд за научни рад финансирао је штампање ове књиге

TABLE DES MATIÈRES

Description des tableaux

Première partie

| Tableaux | Page | Tableaux | Page |
|--------------------|------|--------------------|------|
| $^{12}P_n^r$ | 13 | $^{31}P_n^r$ | 142 |
| $^{13}P_n^r$ | 25 | $^{32}P_n^r$ | 144 |
| $^{14}P_n^r$ | 36 | $^{33}P_n^r$ | 146 |
| $^{15}P_n^r$ | 46 | $^{34}P_n^r$ | 148 |
| $^{16}P_n^r$ | 56 | $^{35}P_n^r$ | 149 |
| $^{17}P_n^r$ | 65 | $^{36}P_n^r$ | 150 |
| $^{18}P_n^r$ | 74 | $^{37}P_n^r$ | 151 |
| $^{19}P_n^r$ | 82 | $^{38}P_n^r$ | 152 |
| $^{20}P_n^r$ | 90 | $^{39}P_n^r$ | 153 |
| $^{21}P_n^r$ | 97 | $^{40}P_n^r$ | 154 |
| $^{22}P_n^r$ | 104 | $^{41}P_n^r$ | 154 |
| $^{23}P_n^r$ | 110 | $^{42}P_n^r$ | 155 |
| $^{24}P_n^r$ | 116 | $^{43}P_n^r$ | 155 |
| $^{25}P_n^r$ | 121 | $^{44}P_n^r$ | 155 |
| $^{26}P_n^r$ | 126 | $^{45}P_n^r$ | 156 |
| $^{27}P_n^r$ | 130 | $^{46}P_n^r$ | 156 |
| $^{28}P_n^r$ | 134 | $^{47}P_n^r$ | 156 |
| $^{29}P_n^r$ | 137 | $^{48}P_n^r$ | 156 |
| $^{30}P_n^r$ | 140 | | |

Seconde partie

| Tableaux | Page | Tableaux | Page |
|----------------------|------|----------------------|------|
| \mathcal{S}_3^k | 159 | \mathcal{S}_{15}^k | 163 |
| \mathcal{S}_4^k | 159 | \mathcal{S}_{16}^k | 164 |
| \mathcal{S}_5^k | 159 | \mathcal{S}_{17}^k | 166 |
| \mathcal{S}_6^k | 159 | \mathcal{S}_{18}^k | 167 |
| \mathcal{S}_7^k | 159 | \mathcal{S}_{19}^k | 169 |
| \mathcal{S}_8^k | 159 | \mathcal{S}_{20}^k | 171 |
| \mathcal{S}_9^k | 160 | \mathcal{S}_{21}^k | 174 |
| \mathcal{S}_{10}^k | 160 | \mathcal{S}_{22}^k | 177 |
| \mathcal{S}_{11}^k | 160 | \mathcal{S}_{23}^k | 181 |
| \mathcal{S}_{12}^k | 161 | \mathcal{S}_{24}^k | 185 |
| \mathcal{S}_{13}^k | 162 | \mathcal{S}_{25}^k | 189 |
| \mathcal{S}_{14}^k | 162 | \mathcal{S}_{26}^k | 195 |

DESCRIPTION DES TABLEAUX

1. La première partie de ce travail contient des tableaux des nombres ${}^p P_n^r$.

Ces tableaux font suite à ceux publiés, sous le même titre, dans les *Publications de la Faculté d'Électrotechnique de l'Université de Belgrade*, série: *Mathématiques et physique*, № 77 (1962) et № 107 (1963).

Dans ce travail on publie les tableaux des nombres suivants:

$${}^{12}P_n^{n-k}, \quad k = 1(1)38, \quad n = k(1)38;$$

$${}^{13}P_n^{n-k}, \quad k = 1(1)37, \quad n = k(1)37;$$

$${}^{14}P_n^{n-k}, \quad k = 1(1)36, \quad n = k(1)36;$$

⋮

$${}^{48}P_n^{n-k}, \quad k = 1(1)2, \quad n = k(1)2.$$

On peut réunir ceci en une seule expression que voici:

$${}^p P_n^{n-k}, \quad k = 1(1)50-p, \quad n = k(1)50-p, \quad p = 12(1)48.$$

Ces tableaux sont dressés de proche en proche à l'aide de la formule

$$(1) \quad {}^p P_{n+1}^r = {}^p P_n^{r-1} - (p+n) {}^p P_n^r,$$

par l'emploi d'une machine de bureau à main.

Les nombres ${}^p P_n^r$ peuvent être également calculés au moyen de la formule suivante, donnant ces nombres explicitement,

$$(2) \quad {}^p P_n^r = \sum_{k=0}^{n-r} (-1)^k \binom{r+k}{p} p^k S_n^{r+k},$$

où S_n^r sont les nombres de Stirling de première espèce.

Les tableaux qu'on publie dans ce travail sont faits par R. S. Mitrinović sous la direction de D. S. Mitrinović.

Des vérifications de ces tableaux ont été faites sur une cinquantaine de valeurs particulières. Ces vérifications précieuses ont été effectuées, à partir de la formule (2), par les instituts suivants:

*Istituto Nazionale per le Applicazioni del Calcolo à Roma,
Computer Laboratory, University of Liverpool.*

Istituto de Roma a calculé les nombres suivants:

$$\begin{aligned} & {}^{12}P_{38}^{13}, {}^{12}P_{38}^8, {}^{12}P_{38}^3, {}^{13}P_{37}^{12}, {}^{13}P_{37}^7, {}^{14}P_{36}^{11}, {}^{14}P_{36}^5, {}^{15}P_{35}^{10}, \\ & {}^{15}P_{35}^3, {}^{16}P_{34}^9, {}^{16}P_{34}^7, {}^{16}P_{34}^3, {}^{17}P_{33}^8, {}^{17}P_{33}^3, {}^{18}P_{32}^{12}, {}^{18}P_{32}^7, \\ & {}^{18}P_{32}^2, {}^{19}P_{31}^{11}, {}^{19}P_{31}^6, {}^{19}P_{31}^2, {}^{21}P_{29}^4, {}^{22}P_{28}^3, {}^{24}P_{26}^6, {}^{26}P_{24}^4, \\ & {}^{28}P_{22}^4, {}^{29}P_{21}^4, {}^{31}P_{19}^3, {}^{32}P_{18}^3, {}^{33}P_{17}^2, {}^{34}P_{16}^2, {}^{35}P_{15}^2, {}^{36}P_{14}^2. \end{aligned}$$

Laboratory de Liverpool a calculé les nombres:

$$\begin{aligned} & {}^{12}P_{38}^{18}, {}^{12}P_{38}^8, {}^{12}P_{38}^3, {}^{13}P_{37}^{17}, {}^{13}P_{37}^{12}, {}^{14}P_{36}^{16}, {}^{15}P_{35}^{15}, {}^{16}P_{34}^{14}, \\ & {}^{17}P_{33}^{13}, {}^{21}P_{29}^9, {}^{22}P_{28}^8, {}^{23}P_{27}^7, {}^{23}P_{27}^2, {}^{24}P_{26}^3, {}^{25}P_{25}^5, {}^{27}P_{23}^3. \end{aligned}$$

Les résultats obtenus au moyen de la formule (2) par les deux instituts en question ou se sont montrés en plein accord avec nos valeurs déterminées par la formule récurrente (1), ou il faudrait refaire des calculs pour réaliser l'accord des résultats obtenus par deux voies très différentes.

Nous exprimons nos vifs remerciements à l'Istituto Nazionale per le Applicazioni del Calcolo, Roma, et à Computer Laboratory, University of Liverpool, pour le travail qu'ils ont accompli avec empressement.

2. La seconde partie de ce travail contient les nombres ${}^v S_n^k$ que seront définis dans ce qui suit.

Les nombres de Stirling de première espèce S_n^k sont définis au moyen de la relation suivante:

$$(2.1) \quad t(t-1)(t-2)\dots(t-v+1)(t-v)(t-v-1)\dots(t-n+1) \\ \equiv S_n^n t^n + S_n^{n-1} t^{n-1} + \dots + S_n^k t^k + \dots + S_n^1 t.$$

Si dans le produit de n facteurs figurant au premier membre de (2.1) il manque le facteur $t-v$, on obtient la nouvelle relation que voici:

$$(2.2) \quad t(t-1)(t-2)\dots(t-v+1)(t-v-1)\dots(t-n+1) \\ = {}^v S_n^1 t^{n-1} + {}^v S_n^2 t^{n-2} + {}^v S_n^3 t^{n-3} + \dots + {}^v S_n^k t^{n-k} + \dots + {}^v S_n^{n-1} t.$$

Les tableaux des nombres ${}^v S_n^k$ sont dressés au moyen des tableaux des nombres de Stirling que nous avons faits antérieurement (*voir*: [1], [2], [3], [4]).

Les nombres ${}^v S_n^k$ sont calculés à l'aide de l'algorithme de Horner dont le schème est:

| v | 1 | S_n^{n-1} | \dots | S_n^{n-k} | \dots | S_n^2 | S_n |
|-----|----------------|--------------------------|---------|--------------------------|---------|--------------------------|--------------------------|
| | 1 | ${}^v S_n^1 + S_n^{n-1}$ | | ${}^v S_n^k + S_n^{n-k}$ | | ${}^v S_n^{n-2} + S_n^2$ | ${}^v S_n^{n-1} + S_n^1$ |
| | $= {}^v S_n^1$ | $= {}^v S_n^2$ | | $= {}^v S_n^{k+1}$ | | $= {}^v S_n^{n-1}$ | |

Si tous les calculs sont exacts, alors, on a

$$(2.3) \quad {}^v S_n^{n-1} + S_n^1 = 0.$$

Donc, (2.3) est une formule servant à la vérification des résultats obtenus pour

$${}^v S_n^1, {}^v S_n^2, \dots, {}^v S_n^k, \dots, {}^v S_n^{n-1}.$$

Avec ceci on vérifie, en même temps, des tableaux des nombres de Stirling de première espèce.

Les nombres ${}^v S_n^k$ interviennent dans le calcul des nombres de Cotes {voir: [5]}.

Dans ce travail on donne les tableaux ${}^v S_n^k$ pour

$$n = 3(1)25, \quad k = 1(1)n-1, \quad v = 1(1)n-2.$$

Lorsque $v=0$ et $v=n-1$, les nombres correspondants ${}^0 S_n^k$ et ${}^{n-1} S_n^k$ coïncident avec les nombres de Stirling de première espèce.

3. Pour la vérification partielle des tableaux nous avons transmis aux instituts indiqués plus haut les données nécessaires, sous une forme qui sera expliquée sur les deux exemples qui suivent.

Pour le calcul du nombre ${}^{19} P_{31}^2$ nous avons envoyé à l'Istituto de Roma les données indiquées dans les tables A et B, pour évaluer la somme suivante

$${}^{19} P_{31}^2 = \sum_{k=0}^{29} \binom{2+k}{k} \cdot 19^k \mid S_{31}^{2+k} \mid.$$

TABLE A

| | | | |
|---|---------------|---|-------------------------|
| $\binom{2}{0} \cdot 1 =$ | 1 | $\binom{10}{8} \cdot 19^8 = 45 \times$ | 1 69835 63041 |
| $\binom{3}{1} \cdot 19 =$ | 57 | $\binom{11}{9} \cdot 19^9 = 55 \times$ | 32 26876 97779 |
| $\binom{4}{2} \cdot 19^2 =$ | 2166 | $\binom{12}{10} \cdot 19^{10} = 66 \times$ | 613 10662 57801 |
| $\binom{5}{3} \cdot 19^3 =$ | 68590 | $\binom{13}{11} \cdot 19^{11} = 78 \times$ | 11649 02588 98219 |
| $\binom{6}{4} \cdot 19^4 =$ | 19 54815 | $\binom{14}{12} \cdot 19^{12} = 91 \times$ | 2 21331 49190 66161 |
| $\binom{7}{5} \cdot 19^5 =$ | 519 98079 | $\binom{15}{13} \cdot 19^{13} = 105 \times$ | 42 05298 34622 57059 |
| $\binom{8}{6} \cdot 19^6 =$ | 13172 84668 | $\binom{16}{14} \cdot 19^{14} = 120 \times$ | 799 00668 57828 84121 |
| $\binom{9}{7} \cdot 19^7 =$ | 3 21793 82604 | $\binom{17}{15} \cdot 19^{15} = 136 \times$ | 15181 12702 98747 98299 |
| $\binom{18}{16} \cdot 19^{16} = 153 \times$ | | 2 88441 41356 76211 67681 | |
| $\binom{19}{17} \cdot 19^{17} = 171 \times$ | | 54 80386 85778 48021 85939 | |
| $\binom{20}{18} \cdot 19^{18} = 190 \times$ | | 1041 27350 29791 12415 32841 | |
| $\binom{21}{19} \cdot 19^{19} = 210 \times$ | | 19784 19655 66031 35891 23979 | |
| $\binom{22}{20} \cdot 19^{20} = 231 \times$ | 3 | 75899 73457 54595 81933 55601 | |
| $\binom{23}{21} \cdot 19^{21} = 253 \times$ | 71 | 42094 95693 37320 56737 56419 | |
| $\binom{24}{22} \cdot 19^{22} = 276 \times$ | 1356 | 99804 18174 09090 78013 71961 | |
| $\binom{25}{23} \cdot 19^{23} = 300 \times$ | 25782 | 96279 45307 72724 82260 67259 | |

Description des tableaux

| | |
|---|---|
| $\binom{26}{24} \cdot 19^{24} = 325 \times$ | 4 89876 29309 60846 81771 62952 77921 |
| $\binom{27}{25} \cdot 19^{25} = 351 \times$ | 93 07649 56882 56089 53660 96102 80499 |
| $\binom{28}{26} \cdot 19^{26} = 378 \times$ | 1768 45341 80768 65701 19558 25953 29481 |
| $\binom{29}{27} \cdot 19^{27} = 406 \times$ | 33600 61494 34604 48322 71606 93112 60139 |
| $\binom{30}{28} \cdot 19^{28} = 435 \times$ | 6 38411 68392 57485 18131 60531 69139 42641 |
| $\binom{31}{29} \cdot 19^{29} = 465 \times$ | 121 29821 99458 92218 44500 50102 13649 10179 |

TABLE B

| | |
|---------------|--|
| S_{31}^2 | = 1059 68176 13895 33859 94932 71552 00000 |
| S_{31}^3 | = 1902 89378 52409 28209 99821 65606 40000 |
| S_{31}^4 | = 2070 79220 20245 94683 66086 66419 20000 |
| S_{31}^5 | = 1547 79497 52547 19737 11178 12531 20000 |
| S_{31}^6 | = 851 89988 85054 23112 50318 42514 12480 |
| S_{31}^7 | = 360 93078 81588 36812 80561 45388 78976 |
| S_{31}^8 | = 121 36536 66747 45136 52307 46521 02400 |
| S_{31}^9 | = 33 11462 97676 14997 85076 33905 70240 |
| S_{31}^{10} | = 7 45416 14716 90660 70013 96551 57760 |
| S_{31}^{11} | = 1 40193 76240 86807 50169 11422 39744 |
| S_{31}^{12} | = 22245 74232 46962 06305 84030 76000 |
| S_{31}^{13} | = 3000 65136 36556 69786 40667 36800 |
| S_{31}^{14} | = 346 02661 10493 89867 79113 94000 |
| S_{31}^{15} | = 34 25636 13932 93766 06527 00640 |
| S_{31}^{16} | = 2 91972 10605 62373 79778 01375 |
| S_{31}^{17} | = 21458 83249 33450 14521 39775 |
| S_{31}^{18} | = 1360 55808 71196 33228 71175 |
| S_{31}^{19} | = 74 35941 62611 17272 34855 |
| S_{31}^{20} | = 3 49600 54586 80575 40875 |
| S_{31}^{21} | = 14090 25752 42230 82475 |

| | | | |
|---------------|-------------------------|---------------|---------------|
| S_{31}^{22} | = 484 33867 66795 32675 | S_{31}^{27} | = 14803 21269 |
| S_{31}^{23} | = 14 09779 32829 84515 | S_{31}^{28} | = 146 31225 |
| S_{31}^{24} | = 34409 27079 28125 | S_{31}^{29} | = 1 03385 |
| S_{31}^{25} | = 694 91892 47325 | S_{31}^{30} | = 465 |
| S_{31}^{26} | = 11 40094 31445 | S_{31}^{31} | = 1 |

En partant de ces données, l'Istituto de Roma a trouvé le résultat suivant

$${}^{19}P_{31}^2 = 44\ 39798\ 64327\ 45548\ 07433\ 84795\ 44899\ 25296\ 84889\ 60000$$

qui est en accord avec notre résultat obtenu par une autre voie.

Pour le calcul du nombre ${}^{15}P_{35}^{15}$ nous avons adressé au Computer Laboratory de Liverpool les données indiquées dans les tables C et D pour évaluer la somme suivante

$${}^{15}P_{35}^{15} = \sum_{k=0}^{20} \binom{15+k}{k} \cdot 15^k |S_{35}^{15+k}|.$$

TABLE C

| | |
|----------------------------------|------------------------------|
| $\binom{15}{0} \cdot 1 =$ | 1 |
| $\binom{16}{1} \cdot 15 =$ | 240 |
| $\binom{17}{2} \cdot 15^2 =$ | 30600 |
| $\binom{18}{3} \cdot 15^3 =$ | 27 54000 |
| $\binom{19}{4} \cdot 15^4 =$ | 1962 22500 |
| $\binom{20}{5} \cdot 15^5 =$ | 1 17733 50000 |
| $\binom{21}{6} \cdot 15^6 =$ | 61 81008 75000 |
| $\binom{22}{7} \cdot 15^7 =$ | 2913 90412 50000 |
| $\binom{23}{8} \cdot 15^8 =$ | 1 25662 11539 06250 |
| $\binom{24}{9} \cdot 15^9 =$ | 13 07504 × |
| $\binom{25}{10} \cdot 15^{10} =$ | 32 68760 × |
| $\binom{26}{11} \cdot 15^{11} =$ | 77 26160 × |
| $\binom{27}{12} \cdot 15^{12} =$ | 173 83860 × |
| $\binom{28}{13} \cdot 15^{13} =$ | 374 42160 × |
| $\binom{29}{14} \cdot 15^{14} =$ | 775 58760 × |
| $\binom{30}{15} \cdot 15^{15} =$ | 1551 17520 × |
| $\binom{31}{16} \cdot 15^{16} =$ | 3005 40195 × |
| $\binom{32}{17} \cdot 15^{17} =$ | 5657 22720 × |
| $\binom{33}{18} \cdot 15^{18} =$ | 10371 58320 × |
| $\binom{34}{19} \cdot 15^{19} =$ | 18559 67520 × |
| $\binom{35}{20} \cdot 15^{20} =$ | 32479 43160 × |
| | 3325 25673 00796 50878 90625 |

TABLE D

| | |
|-------------------|--|
| $ S_{35}^{15} =$ | 1076 26968 74221 10767 15400 54839 83104 |
| $ S_{35}^{16} =$ | 105 52388 57939 94336 40747 80502 34000 |
| $ S_{35}^{17} =$ | 9 04279 85945 34503 41414 92860 22050 |
| $ S_{35}^{18} =$ | 67869 91331 90453 31428 84710 12275 |
| $ S_{35}^{19} =$ | 4466 88070 34505 23912 27012 56785 |

| | | |
|---------------|---|-----------------------------------|
| S_{35}^{20} | = | 257 90287 73194 86884 37800 85000 |
| S_{35}^{21} | = | 13 05703 38239 75248 93378 59600 |
| S_{35}^{22} | = | 57890 07068 90038 83223 50900 |
| S_{35}^{23} | = | 2242 64025 78251 08982 27340 |
| S_{35}^{24} | = | 75 66115 33169 22173 91000 |
| S_{35}^{25} | = | 2 21290 73524 54262 37300 |
| S_{35}^{26} | = | 5576 85564 68874 54930 |
| S_{35}^{27} | = | 120 13698 58182 33846 |
| S_{35}^{28} | = | 2 18904 80249 02200 |
| S_{35}^{29} | = | 3326 99930 69280 |
| S_{35}^{30} | = | 41 38368 15700 |
| S_{35}^{31} | = | 41022 12268 |
| S_{35}^{32} | = | 311 54200 |
| S_{35}^{33} | = | 1 70170 |
| S_{35}^{34} | = | 595 |
| S_{35}^{35} | = | 1 |

A partir de ces données le Computer Laboratory a obtenu le résultat suivant

$${}^{15}S_{35}^{15} = 22866 \ 76260 \ 37787 \ 02712 \ 90672 \ 28059 \ 91320 \ 73104$$

qui est en parfaite concordance avec le nôtre.

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P R E M I È R E P A R T I E

TABLEAUX DES NOMBRES ${}^pP_n^r$

TABLEAUX ${}^{12}P_n^r$

| n | $-{}^{12}P_n^{n-1}$ | ${}^{12}P_n^{n-2}$ | $-{}^{12}P_n^{n-3}$ | ${}^{12}P_n^{n-4}$ | $-{}^{12}P_n^{n-5}$ |
|-----|---------------------|--------------------|---------------------|---------------------|---------------------|
| 1 | 12 | | | | |
| 2 | 25 | 156 | | | |
| 3 | 39 | 506 | 2184 | | |
| 4 | 54 | 1091 | 9774 | 32760 | |
| 5 | 70 | 1955 | 27230 | 1 89144 | 5 24160 |
| 6 | 87 | 3145 | 60465 | 6 52054 | 37 39608 |
| 7 | 105 | 4711 | 1 17075 | 17 40424 | 154 76580 |
| 8 | 124 | 6706 | 2 06584 | 39 64849 | 485 44636 |
| 9 | 144 | 9186 | 3 40704 | 80 96529 | 1278 41616 |
| 10 | 165 | 12210 | 5 33610 | 152 51313 | 2978 68725 |
| 11 | 187 | 15840 | 8 02230 | 269 90733 | 6333 97611 |
| 12 | 210 | 20141 | 11 66550 | 454 42023 | 12541 84470 |
| 13 | 234 | 25181 | 16 49934 | 734 39223 | 23447 93022 |
| 14 | 259 | 31031 | 22 79459 | 1146 87573 | 41807 73597 |
| 15 | 285 | 37765 | 30 86265 | 1739 53507 | 71626 50495 |
| 16 | 312 | 45460 | 41 05920 | 2572 82662 | 1 18593 95184 |
| 17 | 340 | 54196 | 53 78800 | 3722 48422 | 1 90633 09720 |
| 18 | 369 | 64056 | 69 50484 | 5282 33622 | 2 98585 13958 |
| 19 | 399 | 75126 | 88 72164 | 7367 48142 | 4 57055 22618 |
| 20 | 430 | 87495 | 112 01070 | 10117 85226 | 6 85447 15020 |
| 21 | 462 | 1 01255 | 140 00910 | 13702 19466 | 10 09218 42252 |
| 22 | 495 | 1 16501 | 173 42325 | 18322 49496 | 14 61390 84630 |
| 23 | 529 | 1 33331 | 213 03359 | 24218 88546 | 20 84355 67494 |
| 24 | 564 | 1 51846 | 259 69944 | 31675 06111 | 29 32016 66604 |
| 25 | 600 | 1 72150 | 314 36400 | 41024 24095 | 40 72318 86600 |
| 26 | 637 | 1 94350 | 378 05950 | 52655 70895 | 55 90215 78115 |
| 27 | 675 | 2 18556 | 451 91250 | 67021 96995 | 75 91132 72125 |
| 28 | 714 | 2 44881 | 537 14934 | 84646 55745 | 102 04989 54930 |
| 29 | 754 | 2 73441 | 635 10174 | 1 06132 53105 | 135 90851 84730 |
| 30 | 795 | 3 04355 | 747 21255 | 1 32171 70239 | 179 42285 62035 |
| 31 | 837 | 3 37745 | 875 04165 | 1 63554 62949 | 234 93497 12073 |
| 32 | 880 | 3 73736 | 1020 27200 | 2 01181 42044 | 305 26346 18880 |
| 33 | 924 | 4 12456 | 1184 71584 | 2 46073 38844 | 393 78328 68816 |
| 34 | 969 | 4 54036 | 1370 32104 | 2 99385 60124 | 504 51631 16796 |
| 35 | 1015 | 4 98610 | 1579 17760 | 3 62420 36908 | 642 23368 82500 |
| 36 | 1062 | 5 46315 | 1813 52430 | 4 36641 71628 | 812 57126 17176 |
| 37 | 1110 | 5 97291 | 2075 75550 | 5 23690 88268 | 1022 15928 55320 |
| 38 | 1159 | 6 51681 | 2368 42809 | 6 25402 90218 | 1278 76781 80452 |
| n | | ${}^{12}P_n^{n-6}$ | | $-{}^{12}P_n^{n-7}$ | ${}^{12}P_n^{n-8}$ |
| 6 | | 89 10720 | | | |
| 7 | | 762 23664 | | 1603 92960 | |

| n | ${}^{12}P_n^{n-6}$ | $-{}^{12}P_n^{n-7}$ | ${}^{12}P_n^{n-8}$ |
|-----|---------------------|-----------------------|-------------------------|
| 8 | 3702 78684 | 16086 42576 | 30474 66240 |
| 9 | 13411 71404 | 90142 16256 | 3 52203 17760 |
| 10 | 40258 45340 | 3 71788 15740 | 22 45188 59136 |
| 11 | 1 05789 57290 | 12 57474 13220 | 104 24528 05416 |
| 12 | 2 51471 02343 | 36 90634 30890 | 393 46433 09476 |
| 13 | 5 52475 29623 | 97 25938 87122 | 1279 21656 50836 |
| 14 | 11 38673 55173 | 235 37821 27697 | 3710 70128 28886 |
| 15 | 22 25674 68695 | 531 43333 62195 | 9830 53481 49008 |
| 16 | 41 59590 32060 | 1132 36550 16960 | 24179 23489 28273 |
| 17 | 74 80220 97212 | 2297 05079 14640 | 55885 46894 03153 |
| 18 | 130 08580 79092 | 4466 31487 33788 | 1 22499 94189 27713 |
| 19 | 219 66134 97832 | 8368 88911 06548 | 2 56489 38809 41353 |
| 20 | 361 34846 98990 | 15178 39095 39340 | 5 15924 95052 44341 |
| 21 | 580 69155 79630 | 26741 54199 07020 | 10 01633 46105 03221 |
| 22 | 913 73363 73946 | 45904 36340 34810 | 18 84104 34674 34881 |
| 23 | 1410 60652 51366 | 76971 30707 48974 | 34 44852 70246 18421 |
| 24 | 2140 13101 13656 | 1 26342 53545 46784 | 61 38848 45008 32511 |
| 25 | 3195 65701 11400 | 2 03387 25186 38400 | 106 87179 72645 16735 |
| 26 | 4702 41499 15600 | 3 21626 56127 60200 | 182 12508 04541 37535 |
| 27 | 6826 69698 83970 | 5 00318 33095 53000 | 304 34317 37390 25135 |
| 28 | 9787 23874 96845 | 7 66559 51350 27830 | 499 46732 28115 92135 |
| 29 | 13869 23456 94045 | 11 58049 06349 01630 | 806 09112 82127 05335 |
| 30 | 19441 48382 67975 | 17 26687 68083 57475 | 1280 89124 42436 72165 |
| 31 | 26977 24378 73445 | 25 43230 00156 12425 | 2006 10007 01946 86115 |
| 32 | 37079 44754 92584 | 37 03251 48441 70560 | 3099 68897 08660 20390 |
| 33 | 50511 03987 23304 | 53 34747 17658 44256 | 4729 11962 40095 25030 |
| 34 | 68231 28778 20024 | 76 07743 97083 92936 | 7129 75585 34725 16550 |
| 35 | 91439 03811 92640 | 107 46383 20881 14040 | 10629 31808 00585 91606 |
| 36 | 1 21624 02146 70140 | 150 44018 00041 68120 | 15680 11818 81999 51486 |
| 37 | 1 60627 44202 94588 | 208 81971 03083 34840 | 22901 24682 84000 21246 |
| 38 | 2 10713 24702 05268 | 287 52715 69027 69652 | 33133 41263 35084 28406 |

| n | $-{}^{12}P_n^{n-9}$ | ${}^{12}P_n^{n-10}$ |
|-----|-----------------------|------------------------|
| 9 | 6 09493 24800 | |
| 10 | 80 05759 97760 | 127 99358 20800 |
| 11 | 573 99908 98752 | 1889 26077 71520 |
| 12 | 2971 64054 23320 | 15091 23984 42816 |
| 13 | 12414 78448 50744 | 86410 61286 02496 |
| 14 | 44395 19861 21644 | 3 96780 22498 71096 |
| 15 | 1 40873 43196 72680 | 15 51055 38890 33840 |
| 16 | 4 06297 87196 95896 | 53 54638 05201 96200 |
| 17 | 10 83316 44896 87540 | 167 30978 46716 81288 |
| 18 | 27 03995 04823 78977 | 481 47155 48726 19948 |
| 19 | 63 78993 30502 10367 | 1292 67006 93439 89258 |
| 20 | 143 30164 33593 92310 | 3270 15799 39005 10635 |
| 21 | 308 39762 75272 11222 | 7855 81058 14010 64555 |

| n | $-{}^{12}\mathbf{P}_n^{n-9}$ | ${}^{12}\mathbf{P}_n^{n-10}$ |
|-----|---------------------------------|-----------------------------------|
| 22 | 638 93666 96738 17515 | 18032 93228 97990 34881 |
| 23 | 1279 53214 75666 03469 | 39756 77905 87088 30391 |
| 24 | 2485 23059 34282 48204 | 84540 40422 35399 51806 |
| 25 | 4695 21603 54582 18600 | 1 74008 70558 69568 87150 |
| 26 | 8649 47253 42453 37795 | 3 47731 69889 89109 75350 |
| 27 | 15570 22559 15025 64125 | 6 76411 65520 02338 11560 |
| 28 | 27439 60936 73245 44390 | 12 83650 45326 88338 12435 |
| 29 | 47418 30227 97882 29790 | 23 81234 82796 18155 88035 |
| 30 | 80468 03853 65091 48525 | 43 25385 22143 31330 09425 |
| 31 | 1 34265 47079 47433 79455 | 77 05042 83996 65172 47475 |
| 32 | 2 20527 77381 31148 82400 | 134 78458 08414 04825 64040 |
| 33 | 3 56914 08853 12197 79560 | 231 81680 13191 73373 89640 |
| 34 | 5 69724 47161 16484 05910 | 392 42814 11582 24274 69840 |
| 35 | 8 97693 24087 13841 67210 | 654 50139 80995 82541 41700 |
| 36 | 13 97271 19063 41379 72692 | 1076 41722 13091 33100 00570 |
| 37 | 21 49916 86366 77356 44020 | 1747 10739 28135 19326 89786 |
| 38 | 32 72077 95825 93366 85074 | 2800 56665 60107 09792 46766 |
| n | $-{}^{12}\mathbf{P}_n^{n-11}$ | ${}^{12}\mathbf{P}_n^{n-12}$ |
| 11 | 2815 85880 57600 | |
| 12 | 46268 85668 02560 | 64764 75253 24800 |
| 13 | 4 08458 61294 30144 | 11 75217 31285 86240 |
| 14 | 25 68723 93444 92544 | 113 86682 63643 39840 |
| 15 | 128 85009 78411 41040 | 781 73504 93211 45984 |
| 16 | 547 63505 28450 54720 | 4260 68769 10319 54064 |
| 17 | 2046 93370 74105 48320 | 19594 46917 06934 86224 |
| 18 | 6898 91746 28893 05672 | 78955 54668 55993 87504 |
| 19 | 21343 06410 90679 04112 | 2 85923 07057 22785 57664 |
| 20 | 61415 83625 87315 71110 | 9 47558 05795 33835 85136 |
| 21 | 1 66060 89206 35479 11430 | 29 12864 81823 27938 60656 |
| 22 | 4 25302 64124 97830 41745 | 83 92874 25632 98749 37846 |
| 23 | 10 38422 33910 29502 27699 | 228 53164 05882 24983 57176 |
| 24 | 24 29909 60615 77592 91384 | 591 97945 92742 57563 26641 |
| 25 | 54 73364 15820 51975 56400 | 1466 74691 74910 50908 16465 |
| 26 | 119 11686 26492 26023 80950 | 3491 89165 60269 74004 03265 |
| 27 | 251 25490 82308 12194 44250 | 8018 33243 66975 62908 79365 |
| 28 | 515 05545 37589 03380 95090 | 17817 27385 76992 38492 05115 |
| 29 | 1028 51563 50664 36905 92490 | 38419 49200 80553 73730 08715 |
| 30 | 2004 82191 45307 81297 01925 | 80588 63304 57792 86873 00805 |
| 31 | 3821 48370 75326 97160 97775 | 1 64791 15345 60721 01347 81655 |
| 32 | 7134 65212 87182 99577 39200 | 3 29114 95287 99780 79269 85980 |
| 33 | 13065 17368 57401 11905 56960 | 6 43039 64654 35832 60675 10780 |
| 34 | 23496 92974 51030 03730 90760 | 12 30972 46240 18882 96425 73980 |
| 35 | 41548 62423 83813 20367 03400 | 23 11831 23067 66264 68047 48940 |
| 36 | 72310 18994 90616 99813 63300 | 42 64616 56988 05485 25298 08740 |
| 37 | 1 23978 21657 19000 88613 90660 | 77 35505 68743 55101 16352 47140 |
| 38 | 2 09586 47881 97625 35631 90174 | 138 10438 29945 86144 58433 89480 |

| n | $-^{12}\mathbf{P}_n^{n-13}$ | $^{12}\mathbf{P}_n^{n-14}$ |
|-----|------------------------------------|---------------------------------------|
| 13 | 15 54354 06077 95200 | |
| 14 | 309 34786 88224 51200 | 388 58851 51948 80000 |
| 15 | 3269 88535 42952 87040 | 8431 63310 45786 11200 |
| 16 | 24376 73168 59662 28608 | 96718 53767 05513 61280 |
| 17 | 1 43675 98703 48609 42400 | 7 79267 02487 76057 62304 |
| 18 | 7 11915 59298 49720 42896 | 49 45870 64888 85730 91904 |
| 19 | 30 80581 99355 29536 68016 | 263 03338 43843 77343 78784 |
| 20 | 119 44197 18129 35889 55600 | 1218 01380 23857 92980 87280 |
| 21 | 422 66055 03580 18636 79952 | 5040 15690 03997 41446 66480 |
| 22 | 1383 90594 03748 40610 81600 | 18987 95506 22143 56461 04896 |
| 23 | 4237 48318 75269 98089 68364 | 66040 75703 49589 37228 79296 |
| 24 | 12236 09060 81148 72514 69524 | 2 14352 66859 84038 70367 72036 |
| 25 | 33547 35114 19881 44792 28600 | 6 54851 93049 05392 80896 74900 |
| 26 | 87816 98708 91570 28394 37805 | 18 96103 92274 41006 38211 33100 |
| 27 | 2 20508 87001 81820 40547 61875 | 52 33149 43213 20677 17197 69690 |
| 28 | 5 33223 83504 93869 93990 57110 | 138 32995 36284 11672 98554 82815 |
| 29 | 12 45914 78935 73565 33672 61710 | 351 61948 76481 66470 58177 67215 |
| 30 | 28 21113 96168 76268 56606 19025 | 862 44455 12846 82649 38754 97325 |
| 31 | 62 05836 54961 03569 05272 52835 | 2047 31241 51934 85929 16214 96375 |
| 32 | 132 91856 14822 14572 63228 64000 | 4715 82213 15259 39398 42933 68280 |
| 33 | 277 72914 07494 04927 51102 47120 | 10564 23883 67433 80594 24993 84280 |
| 34 | 567 09698 16940 17394 81482 32220 | 23062 05017 04666 02332 24605 04680 |
| 35 | 1133 34431 43988 86011 17066 35300 | 49148 51132 83914 02493 72791 86800 |
| 36 | 2219 90499 28169 00451 15298 35480 | 1 02415 69410 51390 45018 74910 45900 |
| 37 | 4266 92094 63595 63743 29606 55000 | 2 08971 13376 03502 66674 09231 48940 |
| 38 | 8057 31873 32029 63700 30877 64860 | 4 18050 26013 19688 90095 59952 43940 |

| n | $-^{12}\mathbf{P}_n^{n-15}$ |
|-----|---------------------------------------|
| 15 | 10103 30139 50668 80000 |
| 16 | 2 37757 39521 86893 82400 |
| 17 | 29 45876 44999 41274 98240 |
| 18 | 255 44620 17144 46946 05056 |
| 19 | 1739 20739 63810 18873 62176 |
| 20 | 9893 24231 22967 16531 04480 |
| 21 | 48869 68398 86420 91918 97440 |
| 22 | 2 15194 86170 18335 59658 91280 |
| 23 | 8 60785 33381 71216 79334 57744 |
| 24 | 31 72211 83004 06844 82342 33104 |
| 25 | 108 88907 89958 32238 15580 26400 |
| 26 | 351 18429 32773 31772 08759 97700 |
| 27 | 1071 70378 39200 90014 60790 55500 |
| 28 | 3112 63206 24515 96424 31500 73410 |
| 29 | 8645 83020 75880 63343 73693 86010 |
| 30 | 23062 22920 11628 88637 58978 41825 |
| 31 | 59284 90035 51195 59911 86687 29475 |
| 32 | 1 47319 33420 84394 54865 83930 73600 |

| n | $-{}^{12}\mathbf{P}_n^{n-15}$ |
|-----|--|
| 33 | 3 54815 50799 55807 88396 73012 77920 |
| 34 | 8 30206 25564 90329 15137 97735 70520 |
| 35 | 18 91060 56349 04966 22421 29567 85800 |
| 36 | 42 01040 59592 48925 39626 50785 65400 |
| 37 | 91 16993 91297 15667 00526 46487 68600 |
| 38 | 193 56579 46722 87297 67556 98830 66660 |
| n | ${}^{12}\mathbf{P}_n^{n-16}$ |
| 16 | 2 72789 13766 68057 60000 |
| 17 | 69 29996 20379 01084 67200 |
| 18 | 923 60413 25361 98059 16160 |
| 19 | 8586 99018 39696 06440 67840 |
| 20 | 62502 41947 17811 91522 95296 |
| 21 | 3 79086 17346 52761 20516 38656 |
| 22 | 19 91785 74509 04651 53842 54176 |
| 23 | 93 08411 04295 28061 82245 57696 |
| 24 | 394 35897 72655 20649 58955 78736 |
| 25 | 1536 35523 60801 67063 23279 70480 |
| 26 | 5565 25115 89259 59874 99749 47280 |
| 27 | 18910 25430 34645 67214 32628 59880 |
| 28 | 60706 70187 63480 77784 03460 24380 |
| 29 | 1 85211 98437 44119 34756 63489 60780 |
| 30 | 5 39691 02288 55225 31849 84937 87190 |
| 31 | 15 08304 64933 43638 54628 62031 43840 |
| 32 | 40 57555 36460 45049 30838 89585 11265 |
| 33 | 105 39606 06977 58409 44935 82537 49665 |
| 34 | 265 06303 92957 69764 22788 68112 56065 |
| 35 | 646 95791 68943 24905 19135 63954 99985 |
| 36 | 1535 75638 17348 58317 72936 53644 32585 |
| 37 | 3552 25586 77788 06736 75008 91355 71785 |
| 38 | 8019 58288 51348 74420 00805 69252 33185 |
| n | $-{}^{12}\mathbf{P}_n^{n-17}$ |
| 17 | 76 38095 85467 05612 80000 |
| 18 | 2086 07985 76458 37068 28800 |
| 19 | 29794 20383 37317 78843 13600 |
| 20 | 2 95990 89953 67895 78504 16640 |
| 21 | 22 96068 32263 37877 07238 66112 |
| 22 | 148 05912 04698 78996 84279 41760 |
| 23 | 825 26627 38006 37149 14925 83744 |
| 24 | 4083 21013 88341 19312 93521 03104 |
| 25 | 18280 13332 03928 62698 15929 37600 |
| 26 | 75125 27705 53590 44037 77278 45360 |
| 27 | 2 86604 82109 45455 19287 67758 42000 |
| 28 | 10 24104 73892 96636 40646 40273 77320 |

| n | $-{}^{12}\mathbf{P}_n^{n-17}$ |
|-----|--|
| 29 | 34 52372 81398 35867 52007 78683 52520 |
| 30 | 110 46064 17333 44760 77029 81757 44500 |
| 31 | 337 13087 13452 64224 14723 49148 06480 |
| 32 | 985 70187 05590 40681 63754 16499 91600 |
| 33 | 2771 02623 09850 22851 20665 58244 87260 |
| 34 | 7513 84896 23841 51276 42777 72432 22185 |
| 35 | 19706 74876 99895 60430 91057 05610 01175 |
| 36 | 50113 77086 40228 30974 90432 11495 00470 |
| 37 | 1 23830 07718 72960 30225 91385 86422 64550 |
| 38 | 2 97890 61470 84575 60326 66822 62852 82015 |
| n | ${}^{12}\mathbf{P}_n^{n-18}$ |
| 18 | 2215 04779 78544 62771 20000 |
| 19 | 64797 44352 72295 74819 84000 |
| 20 | 9 88417 76237 29147 18957 05600 |
| 21 | 104 60126 54755 01812 31090 38080 |
| 22 | 862 30381 19446 51755 69966 19776 |
| 23 | 5896 31390 79205 37648 35466 39616 |
| 24 | 34780 63349 09428 37868 57870 70656 |
| 25 | 1 81776 19848 89711 33134 24627 82400 |
| 26 | 8 58141 13134 35070 52966 14014 73600 |
| 27 | 37 12901 65944 71507 26401 50595 97280 |
| 28 | 148 90489 68213 44259 78620 93174 35280 |
| 29 | 558 54679 23932 09716 04477 04125 28080 |
| 30 | 1974 01964 61264 80284 36796 30149 81400 |
| 31 | 6613 36659 89269 60236 72048 63962 50400 |
| 32 | 21109 99406 67733 21875 05158 77329 29040 |
| 33 | 64480 87637 13711 11867 10342 03325 59440 |
| 34 | 1 89177 05676 56971 40171 40293 24344 86140 |
| 35 | 5 34814 10903 53680 98887 08068 56227 06650 |
| 36 | 14 61031 30122 48774 39139 87750 19897 61875 |
| 37 | 38 66492 30269 79733 25935 28491 71657 84435 |
| 38 | 99 34166 08487 54788 07005 06399 06367 47385 |
| n | $-{}^{12}\mathbf{P}_n^{n-19}$ |
| 19 | 66451 43393 56338 83136 00000 |
| 20 | 20 75172 18327 97507 02551 04000 |
| 21 | 337 04540 57921 30217 09176 83200 |
| 22 | 3788 88716 64836 90023 35159 39840 |
| 23 | 33107 21677 26018 49717 14010 12224 |
| 24 | 2 39478 20354 98206 67409 55333 98784 |
| 25 | 14 91581 00922 37628 30678 38679 42400 |
| 26 | 82 17300 35331 56947 56645 49908 91200 |
| 27 | 408 26663 34436 89627 69358 82468 88000 |
| 28 | 1856 29828 06280 78410 99017 55711 81920 |

| n | $-{}^{12}\mathbf{P}_n^{n-19}$ |
|-----|---|
| 29 | 7812 49415 34818 48802 43854 82685 93120 |
| 30 | 30712 91264 16034 47160 27413 51822 44400 |
| 31 | 1 13621 73777 89156 19103 72858 18114 63200 |
| 32 | 3 97996 50153 27749 09282 70949 68502 30400 |
| 33 | 13 26836 24047 08010 71784 97935 70991 08160 |
| 34 | 42 28475 67718 25011 05804 63327 20642 82960 |
| 35 | 129 30620 28840 45695 53689 16816 40506 45400 |
| 36 | 380 66883 41306 68702 01381 96038 83178 57950 |
| 37 | 1081 96385 87186 09872 80096 08048 38264 27950 |
| 38 | 2976 54508 70406 16802 50925 04142 49498 65265 |
| n | ${}^{12}\mathbf{P}_n^{n-20}$ |
| 20 | 20 59994 45200 46503 77216 00000 |
| 21 | 684 65504 31695 66728 58849 28000 |
| 22 | 11807 15343 43098 63892 61684 73600 |
| 23 | 1 40629 31709 47553 24686 57104 28160 |
| 24 | 12 99381 90413 58200 64786 47458 56000 |
| 25 | 99 20597 23192 93640 91530 39482 12224 |
| 26 | 651 09094 57320 85888 26630 70620 81024 |
| 27 | 3773 66507 99920 49895 79159 67159 46624 |
| 28 | 19696 06378 42959 45375 84153 83445 78624 |
| 29 | 93947 99500 94190 81815 44856 11918 55424 |
| 30 | 4 14260 25530 21748 82715 42904 02041 73344 |
| 31 | 17 04202 58624 95196 63446 94271 78584 38144 |
| 32 | 65 89937 31074 28912 84907 27173 57513 55744 |
| 33 | 241 01783 37818 49872 93346 48959 71614 93344 |
| 34 | 838 09414 19937 10355 23670 56066 66213 60544 |
| 35 | 2783 19295 34976 60863 90683 69118 15783 76704 |
| 36 | 8860 58448 90478 08554 14074 59489 19587 10504 |
| 37 | 27132 68852 73199 06250 80408 69353 12158 92104 |
| 38 | 80148 91760 45317 90018 05116 63723 87108 61654 |
| n | $-{}^{12}\mathbf{P}_n^{n-21}$ |
| 21 | 659 19822 46414 88120 70912 00000 |
| 22 | 23252 81464 92371 90164 12938 24000 |
| 23 | 4 24696 03141 57725 62513 10219 26400 |
| 24 | 53 46722 12973 22089 26543 08869 12000 |
| 25 | 521 24470 67862 17312 58856 17377 28000 |
| 26 | 4191 86568 26000 82026 45480 78215 80288 |
| 27 | 28933 32162 04193 45780 57447 61806 59200 |
| 28 | 1 76106 25974 01092 91716 44674 81025 77536 |
| 29 | 9 63948 81111 19471 06750 10828 18857 22496 |
| 30 | 48 15816 60649 81294 61183 49929 07517 94880 |
| 31 | 222 14747 32918 94745 35231 51897 93270 75328 |
| 32 | 954 95458 53791 88200 63450 05584 72399 15520 |

| n | $-{}^{12}P_n^{n-21}$ |
|-----|--|
| 33 | 3854 52700 21060 60365 99370 01222 02995 68256 |
| 34 | 14700 32952 22893 04647 99962 04409 25667 68736 |
| 35 | 53252 66005 39999 80988 88807 83475 71493 53760 |
| 36 | 1 84062 72886 83900 41592 50941 32029 13330 58848 |
| 37 | 6 09370 78434 26848 52191 26521 87510 53511 63040 |
| 38 | 19 38872 52218 13602 58480 66547 85813 49298 76136 |
| n | ${}^{12}P_n^{n-22}$ |
| 22 | 21753 54141 31691 07983 40096 00000 |
| 23 | 8 12349 23948 72335 73563 79996 16000 |
| 24 | 156 76710 33903 92732 61522 37670 40000 |
| 25 | 2081 58707 00939 87946 17073 56958 72000 |
| 26 | 21367 64122 11840 28511 94751 99918 08000 |
| 27 | 1 80658 53715 99871 45517 23021 72118 58944 |
| 28 | 13 09058 08035 63416 30959 63478 82575 67744 |
| 29 | 83 53308 46996 07132 99617 50471 23606 69184 |
| 30 | 478 75209 72555 05446 76371 94426 96752 91520 |
| 31 | 2501 39507 19847 19820 46078 91448 12506 76480 |
| 32 | 12053 73642 35361 93870 61034 23059 23149 15584 |
| 33 | 54071 73818 02204 74698 52836 68787 08711 98464 |
| 34 | 2 27525 45327 49931 91168 24487 23778 43517 69984 |
| 35 | 9 03740 61130 03012 04976 22741 26604 24231 31840 |
| 36 | 34 06615 63383 83003 11453 96709 49962 84427 58560 |
| 37 | 122 41626 61952 10223 07894 41892 87361 24295 83264 |
| 38 | 421 00795 05231 25800 65266 41464 75377 46365 72224 |
| n | $-{}^{12}P_n^{n-23}$ |
| 23 | 7 39620 40804 77496 71435 63264 00000 |
| 24 | 291 71843 79010 09247 46168 63129 60000 |
| 25 | 5935 33415 99551 47621 60974 19264 00000 |
| 26 | 82954 05575 34327 01629 92696 26736 64000 |
| 27 | 8 94924 42215 84257 85083 93272 23623 68000 |
| 28 | 79 40607 37139 79244 60255 91119 36248 66816 |
| 29 | 603 02930 58565 15896 98641 30272 39275 76576 |
| 30 | 4027 88577 85404 08349 82958 99593 07150 13120 |
| 31 | 24135 47386 32716 37113 90580 65525 70772 56960 |
| 32 | 1 31695 46195 86145 89393 71973 97795 08563 45600 |
| 33 | 6 62059 86459 42071 19700 57480 12401 27126 31296 |
| 34 | 30 95288 08270 41284 81134 35131 07820 19165 62176 |
| 35 | 135 61458 93335 38152 74873 61544 01628 20979 81440 |
| 36 | 560 37267 66446 79719 08756 30383 52027 59851 77920 |
| 37 | 2195 54818 08870 63868 58546 72439 50244 12375 88800 |
| 38 | 8193 94522 44523 64799 45373 25190 30945 02871 68736 |

| n | ${}^{12}P_n^{n-24}$ |
|-----|---|
| 24 | 258 86714 28167 12385 00247 14240 00000 |
| 25 | 10760 73090 72530 45293 62317 86905 60000 |
| 26 | 2 30368 09482 55935 07293 18362 99673 60000 |
| 27 | 33 82622 21345 60361 69230 40821 15665 92000 |
| 28 | 382 84674 67763 46417 87503 78438 36989 44000 |
| 29 | 3559 08969 53355 16201 97740 23212 86936 16640 |
| 30 | 28283 29123 54526 67978 42033 64380 97242 56256 |
| 31 | 1 97454 49393 41498 18671 26311 47289 97548 07296 |
| 32 | 12 35279 87005 48302 14569 21279 64895 40768 56576 |
| 33 | 70 29880 19623 38721 47892 88134 67879 17560 62976 |
| 34 | 368 22574 10297 31925 34418 74740 25936 38244 71296 |
| 35 | 1792 05825 90736 31026 66598 90769 85665 19863 31392 |
| 36 | 8165 94395 77499 24205 85658 83338 62191 05914 59072 |
| 37 | 35063 83243 66945 50722 05961 41747 59515 78799 99232 |
| 38 | 1 42645 69330 01606 80282 74750 91283 21477 85218 50432 |
| n | $-{}^{12}P_n^{n-25}$ |
| 25 | 9319 21714 14016 45860 08897 12640 00000 |
| 26 | 4 07466 26070 97643 21724 14658 28147 20000 |
| 27 | 91 61453 86408 23175 98865 12452 15744 00000 |
| 28 | 1410 83720 18886 77281 98851 04477 26714 88000 |
| 29 | 16724 70707 29425 33996 99002 42012 06292 48000 |
| 30 | 1 62647 38458 16986 98278 06351 93739 70675 30240 |
| 31 | 13 50545 61647 07107 53371 71764 97740 54862 92992 |
| 32 | 98 41088 85563 91529 56236 03158 31209 49430 06720 |
| 33 | 641 93403 13805 16823 97281 39462 86607 43246 96064 |
| 34 | 3805 38011 96857 59290 52461 05523 41170 33475 29984 |
| 35 | 20743 76420 70534 27856 35723 43575 34243 92732 09600 |
| 36 | 1 04970 50238 35140 86109 65872 09758 60508 26307 85024 |
| 37 | 4 96935 81235 55104 47990 77496 10012 45679 10208 20480 |
| 38 | 22 15063 60175 35434 33371 69605 55644 61952 71407 82848 |
| n | ${}^{12}P_n^{n-26}$ |
| 26 | 3 44811 03423 18608 96823 29193 67680 00000 |
| 27 | 158 28528 94120 29051 22340 86208 37273 60000 |
| 28 | 3731 25229 64041 32914 78080 71842 51289 60000 |
| 29 | 60164 74037 19512 24194 32122 50933 19884 80000 |
| 30 | 7 45877 73036 25951 18070 91221 73427 77876 48000 |
| 31 | 75 77067 88279 39404 45749 58003 10495 46239 18080 |
| 32 | 656 50529 39103 45028 40733 43897 13339 05345 16736 |
| 33 | 4986 58439 03915 72329 15118 82862 86556 80268 12416 |
| 34 | 33873 61580 25148 29407 92781 58691 83891 26381 35296 |
| 35 | 2 08921 10130 80597 56772 05990 12768 77726 66245 14560 |
| 36 | 11 83878 01903 95708 66020 84991 60809 87191 24653 65760 |
| 37 | 62 22462 13344 82469 99284 46852 29222 91587 87430 46912 |
| 38 | 305 72316 93886 82589 50832 44161 19833 29863 87632 50432 |

| n | $-{}^{12}P_n^{n-27}$ |
|-----|---|
| 27 | 131 02819 30081 07140 79285 09359 71840 00000 |
| 28 | 6304 15448 00772 40138 50578 71486 25510 40000 |
| 29 | 1 55554 24633 62425 56729 73807 45186 77094 40000 |
| 30 | 26 22308 60158 62427 48696 90830 33447 92371 20000 |
| 31 | 339 49173 27681 52377 07675 22143 17414 63183 36000 |
| 32 | 3597 63092 23695 46768 74907 16276 68719 51468 13440 |
| 33 | 32483 86385 44247 28018 67178 47750 55637 86655 49824 |
| 34 | 2 56880 16142 20454 82830 47525 76579 50693 98721 08544 |
| 35 | 18 15066 48833 77276 35595 15478 76404 09692 12263 32160 |
| 36 | 116 34358 24981 65362 03881 97014 76536 62845 25785 16480 |
| 37 | 684 60503 16371 59377 72882 76611 95410 48025 09160 72960 |
| 38 | 3733 61147 70268 00407 37821 72374 27333 35830 93253 71648 |
| n | ${}^{12}P_n^{n-28}$ |
| 28 | 5110 09952 73161 78490 92118 65029 01760 00000 |
| 29 | 2 57276 27873 04057 84031 15267 24479 22176 00000 |
| 30 | 66 35000 37851 63506 09950 41372 77136 83046 40000 |
| 31 | 1167 71961 64513 85460 55220 56246 81949 62636 80000 |
| 32 | 15765 86412 54819 37674 85255 08403 30778 79521 28000 |
| 33 | 1 74061 62470 97419 95499 81170 24577 54437 44119 19360 |
| 34 | 16 35835 49815 88547 56340 04201 73352 58141 43616 61440 |
| 35 | 134 52322 92357 29469 66541 90386 96009 90064 84786 54464 |
| 36 | 987 60447 87544 61458 39514 17888 87002 45594 61162 65984 |
| 37 | 6572 09643 86663 98836 25848 74597 60760 62166 98850 57024 |
| 38 | 40117 74298 88872 08344 97104 28583 35874 15396 47726 32064 |
| n | $-{}^{12}P_n^{n-29}$ |
| 29 | 2 04403 98109 26471 39636 84746 01160 70400 00000 |
| 30 | 107 52731 40903 92842 84914 10703 04808 79616 00000 |
| 31 | 2894 22747 30672 60099 02831 48359 44555 67564 80000 |
| 32 | 53106 17098 04768 34902 77315 66972 68389 60947 20000 |
| 33 | 7 46804 19250 16820 92596 28539 36718 22656 59883 52000 |
| 34 | 85 79577 30444 00718 90087 81200 42707 72341 45247 23200 |
| 35 | 838 28010 21974 73906 81729 74480 16926 46847 51611 49440 |
| 36 | 7160 87187 62767 58981 09199 22667 29391 79895 36579 09248 |
| 37 | 54565 88685 64909 08984 05879 81333 05509 68436 72386 76480 |
| 38 | 3 76598 61235 11444 51960 72468 36615 82780 14619 16064 70656 |
| n | ${}^{12}P_n^{n-30}$ |
| 30 | 83 80563 22479 85327 25110 74586 47588 86400 00000 |
| 31 | 4599 95282 40444 84726 91503 24114 49558 30272 00000 |
| 32 | 1 29051 73416 59366 68985 13257 03570 65452 35558 40000 |
| 33 | 24 65723 25730 69174 04707 15146 50368 74595 17235 20000 |
| 34 | 360 71911 91988 26115 71539 99418 02688 94142 11993 60000 |

| n | ${}^{12}\mathbf{P}_n^{n-30}$ |
|-----|---|
| 35 | 4307 32467 92412 59185 15579 34637 67244 21848 93366 27200 |
| 36 | 43706 48948 25225 32805 56877 35205 62788 23682 19106 50880 |
| 37 | 3 87428 33954 38069 63897 98440 23235 73594 58659 74902 94784 |
| 38 | 30 61156 79551 18615 04116 86551 08555 43569 12059 21854 42304 |
| n | $-{}^{12}\mathbf{P}_n^{n-31}$ |
| 31 | 3519 83655 44153 83744 54651 32631 98732 28800 00000 |
| 32 | 2 01317 80798 83282 27001 89290 69555 29739 30496 00000 |
| 33 | 58 79594 11128 95416 62347 72600 26664 09642 95065 60000 |
| 34 | 1168 37140 69010 08248 74169 54192 93257 66425 70649 60000 |
| 35 | 17761 45089 00470 09571 65009 27422 16948 96963 22355 20000 |
| 36 | 2 20205 71081 43861 91273 97238 55392 77427 23863 10569 98400 |
| 37 | 23 18117 20597 54677 65941 27351 45262 91262 60608 27682 40640 |
| 38 | 213 02105 84362 20089 96942 50922 83813 97397 34935 97926 85056 |
| n | ${}^{12}\mathbf{P}_n^{n-32}$ |
| 32 | 1 51352 97183 98615 01015 50007 03175 45488 38400 00000 |
| 33 | 90 09336 52332 63034 89098 78797 63608 54017 80224 00000 |
| 34 | 2735 91071 53135 56782 94746 45809 63492 87950 58176 00000 |
| 35 | 56480 99543 27599 36225 06545 38684 53345 43533 08057 60000 |
| 36 | 8 91269 18726 49693 86092 61981 27526 49947 00804 58752 00000 |
| 37 | 114 61143 30635 55065 67243 29431 86379 66454 46233 66111 23200 |
| 38 | 1250 48886 39915 34270 98365 69653 04262 38322 16039 22549 14560 |
| n | $-{}^{12}\mathbf{P}_n^{n-33}$ |
| 33 | 66 59530 76095 39060 44682 00309 39720 01488 89600 00000 |
| 34 | 4120 79674 31063 75630 54127 46203 02104 32289 99680 00000 |
| 35 | 1 29972 68964 75299 87646 12464 53446 22776 78016 75776 00000 |
| 36 | 27 84579 47498 72469 90224 20097 71619 30012 24071 54483 20000 |
| 37 | 455 65500 46370 57775 22669 95198 92891 27468 62691 74579 20000 |
| 38 | 6071 61522 47512 55993 17591 37360 25494 83737 28141 14029 56800 |
| n | ${}^{12}\mathbf{P}_n^{n-34}$ |
| 34 | 2996 78884 24292 57720 10690 13922 87400 67000 32000 00000 |
| 35 | 1 92553 43902 53225 36725 00553 39261 84199 52340 17280 00000 |
| 36 | 63 01269 85245 92319 56092 86386 51234 54708 19127 78752 00000 |
| 37 | 1399 61084 65184 70874 86854 51076 88960 95295 74561 93945 60000 |
| 38 | 23726 70607 37343 01860 97682 15824 40633 41258 46457 48326 40000 |
| n | $-{}^{12}\mathbf{P}_n^{n-35}$ |
| 35 | 1 37852 28675 17458 55124 91746 40452 20430 82014 72000 00000 |

| n | $-{}^{12}P_n^{n-35}$ |
|-----|---|
| 36 | 91 87863 92094 19050 81200 17755 85758 77808 42002 84160 00000 |
| 37 | 3116 48816 83898 50389 73657 64308 45017 03801 60136 64256 00000 |
| 38 | 71697 41964 77949 23258 29528 67076 04103 73293 13671 67590 40000 |
| n | ${}^{12}P_n^{n-36}$ |
| 36 | 64 79057 47733 20551 90871 12081 01253 60248 54691 84000 00000 |
| 37 | 4474 96525 68254 34990 88479 64362 17674 95052 70828 23680 00000 |
| 38 | 1 57182 88550 79281 04087 97704 15476 23509 81331 17523 72224 00000 |
| n | $-{}^{12}P_n^{n-37}$ |
| 37 | 3109 94758 91193 86491 61813 79888 60172 91930 25208 32000 00000 |
| 38 | 2 22383 24517 35657 01044 97316 33635 26245 49512 95791 92320 00000 |
| n | ${}^{12}P_n^{n-38}$ |
| 38 | 1 52387 43186 68499 38089 28876 14541 48473 04582 35207 68000 00000 |

TABLEAUX ${}^{13}P_n^r$

| n | $-{}^{13}P_n^{n-1}$ | ${}^{13}P_n^{n-2}$ | $-{}^{13}P_n^{n-3}$ | ${}^{13}P_n^{n-4}$ | $-{}^{13}P_n^{n-5}$ |
|-----|---------------------|--------------------|---------------------|--------------------|---------------------|
| 1 | 13 | | | | |
| 2 | 27 | 182 | | | |
| 3 | 42 | 587 | 2730 | | |
| 4 | 58 | 1259 | 12122 | 43680 | |
| 5 | 75 | 2245 | 33525 | 2 49754 | 7 42560 |
| 6 | 93 | 3595 | 73935 | 8 53204 | 52 38132 |
| 7 | 112 | 5362 | 1 42240 | 22 57969 | 214 49008 |
| 8 | 132 | 7602 | 2 49480 | 51 02769 | 666 08388 |
| 9 | 153 | 10374 | 4 09122 | 103 41849 | 1737 66537 |
| 10 | 175 | 13740 | 6 37350 | 193 42533 | 4012 87215 |
| 11 | 198 | 17765 | 9 53370 | 340 01583 | 8461 65474 |
| 12 | 222 | 22517 | 13 79730 | 568 82463 | 16622 03466 |
| 13 | 247 | 28067 | 19 42655 | 913 75713 | 30842 65041 |
| 14 | 273 | 34489 | 26 72397 | 1418 84743 | 54600 33579 |
| 15 | 300 | 41860 | 36 03600 | 2140 39462 | 92909 21640 |
| 16 | 328 | 50260 | 47 75680 | 3149 40262 | 1 52840 26576 |
| 17 | 357 | 59772 | 62 33220 | 4534 34982 | 2 44172 94174 |
| 18 | 387 | 70482 | 80 26380 | 6404 31582 | 3 80203 43634 |
| 19 | 418 | 82479 | 102 11322 | 8892 49362 | 5 78737 22676 |
| 20 | 450 | 95855 | 128 50650 | 12160 11666 | 8 63297 02260 |
| 21 | 483 | 1 10705 | 160 13865 | 16400 83116 | 12 64580 87238 |
| 22 | 517 | 1 27127 | 197 77835 | 21845 54526 | 18 22209 13182 |
| 23 | 552 | 1 45222 | 242 27280 | 28767 78751 | 25 86803 21592 |
| 24 | 588 | 1 65094 | 294 55272 | 37489 60831 | 36 22443 56628 |
| 25 | 625 | 1 86850 | 355 63750 | 48388 05895 | 50 09559 07375 |
| 26 | 663 | 2 10600 | 426 64050 | 61902 28395 | 68 48305 31385 |
| 27 | 702 | 2 36457 | 508 77450 | 78541 26345 | 92 62494 38790 |
| 28 | 742 | 2 64537 | 603 35730 | 98892 24345 | 124 04144 92590 |
| 29 | 783 | 2 94959 | 711 81747 | 1 23629 89275 | 164 58726 90735 |
| 30 | 825 | 3 27845 | 835 70025 | 1 53526 22649 | 216 51182 40285 |
| 31 | 868 | 3 63320 | 976 67360 | 1 89461 33724 | 282 52810 14192 |
| 32 | 912 | 4 01512 | 1136 53440 | 2 32434 97564 | 365 89108 98048 |
| 33 | 957 | 4 42552 | 1317 21480 | 2 83579 02364 | 470 48682 88428 |
| 34 | 1003 | 4 86574 | 1520 78872 | 3 44170 90444 | 600 93317 97172 |
| 35 | 1050 | 5 33715 | 1749 47850 | 4 15647 97428 | 762 69350 48040 |
| 36 | 1098 | 5 84115 | 2005 66170 | 4 99622 94228 | 962 20453 24584 |
| 37 | 1147 | 6 37917 | 2291 87805 | 5 97900 36558 | 1207 01977 41756 |
| n | ${}^{13}P_n^{n-6}$ | | $-{}^{13}P_n^{n-7}$ | ${}^{13}P_n^{n-8}$ | |
| 6 | 133 66080 | | | | |
| 7 | 1128 90588 | | 2539 55520 | | |

| n | ${}^{13}P_n^{n-6}$ | $-{}^{13}P_n^{n-7}$ | ${}^{13}P_n^{n-8}$ |
|-----|---------------------|-----------------------|-------------------------|
| 8 | 5418 70748 | 25117 67280 | 50791 10400 |
| 9 | 19406 46896 | 1 38910 52988 | 5 78262 23280 |
| 10 | 57635 10710 | 5 65852 84700 | 36 34293 89016 |
| 11 | 1 49931 16655 | 18 91460 31030 | 166 48909 37116 |
| 12 | 3 53010 88031 | 54 89808 30750 | 620 43956 81836 |
| 13 | 7 68561 74681 | 143 15080 31525 | 1992 89164 50586 |
| 14 | 15 70470 65747 | 342 97685 73231 | 5714 81252 70236 |
| 15 | 30 44679 72380 | 767 00393 48400 | 14975 18767 47473 |
| 16 | 56 46137 78300 | 1619 51425 75040 | 36451 29785 02673 |
| 17 | 100 78505 49004 | 3256 89421 45740 | 83417 21131 78833 |
| 18 | 174 03693 74224 | 6280 44586 15860 | 1 81124 03775 51033 |
| 19 | 291 90000 26878 | 11675 59092 16804 | 3 75817 85946 42693 |
| 20 | 477 09591 52510 | 21016 39100 76900 | 7 49436 76895 80421 |
| 21 | 761 98393 27090 | 36760 55621 09730 | 14 42977 67221 18121 |
| 22 | 1191 94142 93182 | 62668 00992 30790 | 26 92836 58338 48941 |
| 23 | 1829 71462 54552 | 1 04385 95994 92160 | 48 86216 93069 26591 |
| 24 | 2760 96378 31864 | 1 70255 68646 56032 | 86 44111 48886 44351 |
| 25 | 4101 26790 27100 | 2 72411 34644 35000 | 149 43571 88809 17533 |
| 26 | 6004 90035 07350 | 4 28259 52674 64800 | 252 95203 05294 47535 |
| 27 | 8675 73942 31365 | 6 62450 64042 51450 | 419 97324 59605 74735 |
| 28 | 12380 73717 82965 | 10 09480 21735 06050 | 684 95350 21306 32735 |
| 29 | 17466 43659 79155 | 15 17090 44166 07615 | 1098 84039 12443 80785 |
| 30 | 24379 10189 90025 | 22 50680 77877 32125 | 1736 01837 67419 00615 |
| 31 | 33689 11033 22280 | 32 98982 16043 03200 | 2703 81111 16143 81990 |
| 32 | 46120 34679 46728 | 47 81303 01504 83520 | 4155 36326 22037 22790 |
| 33 | 62585 44583 58888 | 68 56718 62080 86280 | 6306 94961 89754 81190 |
| 34 | 84227 83996 26576 | 97 35649 12925 95128 | 9461 04018 45474 50070 |
| 35 | 1 12471 69940 93660 | 136 94357 60750 44200 | 14036 79527 52994 21086 |
| 36 | 1 49080 98763 99580 | 190 92999 17915 39880 | 20610 08692 69015 42686 |
| 37 | 1 96229 00973 04196 | 263 97967 57351 19300 | 29965 65652 46869 96806 |

| n | $-{}^{13}P_n^{n-9}$ | ${}^{13}P_n^{n-10}$ |
|-----|-----------------------|-------------------------|
| 9 | 10 66613 18400 | |
| 10 | 137 88382 30560 | 234 65490 04800 |
| 11 | 973 77141 77928 | 3405 98283 07680 |
| 12 | 4969 50966 68712 | 26776 49685 77952 |
| 13 | 20480 49887 14612 | 1 51014 23852 95752 |
| 14 | 72295 68164 29848 | 6 83507 20918 75664 |
| 15 | 2 26595 61987 26220 | 26 35490 61354 81560 |
| 16 | 6 45900 87476 55464 | 89 80167 96998 15720 |
| 17 | 17 02988 51242 32981 | 277 11293 33818 24176 |
| 18 | 42 05504 85195 97971 | 788 00948 71088 13606 |
| 19 | 98 20350 02236 79994 | 2091 71599 12163 50707 |
| 20 | 218 46521 52522 46170 | 5234 22799 83741 10515 |
| 21 | 465 77934 90084 00063 | 12443 58010 16982 34125 |
| 22 | 956 39175 75604 16177 | 28280 07796 79838 36267 |

| n | $-{}^{13}P_n^{n-9}$ | ${}^{13}P_n^{n-10}$ |
|-----|----------------------------|------------------------------|
| 23 | 1898 88456 17451 29112 | 61753 78948 25984 02462 |
| 24 | 3657 92265 67944 86388 | 1 30113 63370 54230 50494 |
| 25 | 6856 24390 76743 27375 | 2 65456 77200 68190 46850 |
| 26 | 12534 80122 51491 93705 | 5 25994 04049 84434 87100 |
| 27 | 22399 93041 57976 47570 | 10 14851 28827 92620 41595 |
| 28 | 39198 86025 42206 36970 | 19 10848 50491 11679 44395 |
| 29 | 67281 95384 15765 79105 | 35 18001 77533 42140 60165 |
| 30 | 1 13433 25027 38405 72075 | 63 43843 83668 04303 82575 |
| 31 | 1 88082 04047 37422 98520 | 112 21473 59845 55749 81800 |
| 32 | 3 07049 72938 47751 06080 | 194 97083 37930 02361 16680 |
| 33 | 4 94041 07618 39426 31630 | 333 14321 20161 51158 90280 |
| 34 | 7 84160 75865 68147 66370 | 560 40210 70607 64769 45260 |
| 35 | 12 28829 64733 05449 19660 | 928 95766 36294 67709 64650 |
| 36 | 19 02595 82054 49171 31788 | 1518 79589 43481 29271 08330 |
| 37 | 29 12490 07996 30927 23402 | 2451 06784 64151 38665 65942 |

| n | $-{}^{13}P_n^{n-11}$ | ${}^{13}P_n^{n-12}$ |
|-----|---------------------------------|-----------------------------------|
| 11 | 5397 06271 10400 | |
| 12 | 87140 65064 94720 | 1 29529 50506 49600 |
| 13 | 7 56553 07209 43520 | 23 08045 77130 17600 |
| 14 | 46 82923 27386 33072 | 219 78425 64575 49120 |
| 15 | 231 37617 92192 76000 | 1484 17354 04006 42064 |
| 16 | 969 31355 10127 59680 | 7962 70655 85403 70064 |
| 17 | 3573 56226 23074 15560 | 36072 79953 79104 00784 |
| 18 | 11886 95026 37621 40840 | 1 43279 66740 71328 67584 |
| 19 | 36315 24436 41353 62626 | 5 11775 12558 37592 33624 |
| 20 | 1 03250 15608 30585 85250 | 16 73862 94523 60908 37656 |
| 21 | 2 75979 68002 94042 32245 | 50 81118 09597 70241 50906 |
| 22 | 6 99061 40348 71441 92495 | 144 64427 21697 67680 47236 |
| 23 | 16 88864 13236 65784 61840 | 389 31576 33902 68147 84561 |
| 24 | 39 12000 55374 01209 50472 | 997 30685 10422 36394 10801 |
| 25 | 87 26205 00084 07738 18750 | 2444 74705 59260 81145 78265 |
| 26 | 188 13562 33709 98975 99050 | 5760 70495 62455 75196 90765 |
| 27 | 393 27329 91653 91935 95950 | 13097 99426 77145 35260 53715 |
| 28 | 799 21381 44770 96752 59750 | 28828 92623 43302 12698 91715 |
| 29 | 1582 66170 14906 75609 79945 | 61596 69262 78911 79555 41465 |
| 30 | 3060 22244 71310 45515 06875 | 1 28068 48409 04995 55166 99155 |
| 31 | 5788 07529 69036 30579 57600 | 2 59658 04931 71345 12314 94780 |
| 32 | 10725 52368 02240 83571 56800 | 5 14333 36238 08942 57816 29180 |
| 33 | 19499 21120 09091 89824 07400 | 9 96981 92799 09780 18536 85180 |
| 34 | 34823 79895 36521 43133 60280 | 18 93945 64323 28007 50444 25580 |
| 35 | 61162 69798 55080 87297 87500 | 35 30664 19405 44514 77723 58740 |
| 36 | 1 05752 66583 97225 37360 90700 | 64 66473 69735 88396 68021 58740 |
| 37 | 1 80173 66466 27808 71643 98870 | 116 48354 32350 52439 98706 03040 |

| n | $-^{13}P_n^{n-13}$ | $^{13}P_n^{n-14}$ |
|-----|------------------------------------|---------------------------------------|
| 13 | 32 38237 62662 40000 | |
| 14 | 632 47427 68046 97600 | 841 94178 29222 40000 |
| 15 | 6566 64920 11585 23840 | 17918 74725 66490 75200 |
| 16 | 48123 50833 23765 01632 | 2 01784 92488 90877 42720 |
| 17 | 2 79041 99853 00472 33488 | 15 97366 66652 80062 90048 |
| 18 | 13 61225 98466 73592 57008 | 99 68626 62242 94232 94688 |
| 19 | 58 02895 67428 84781 52112 | 521 66632 14711 75602 61936 |
| 20 | 221 79699 69296 87736 28080 | 2378 59293 72434 88611 29520 |
| 21 | 774 17176 88575 97712 70728 | 9697 89383 59231 83908 56160 |
| 22 | 2501 75192 14897 85924 01532 | 36019 73397 70815 06140 60912 |
| 23 | 7564 30144 74316 54740 54792 | 1 23581 05122 92240 13481 14532 |
| 24 | 21579 66892 94813 08062 98988 | 3 95895 90333 67635 84140 87044 |
| 25 | 58480 02241 80440 54644 98625 | 11 94343 65372 75719 82471 49600 |
| 26 | 1 51380 41054 32351 38184 72695 | 34 16584 50561 32460 58980 97350 |
| 27 | 3 76047 90383 68125 70864 12530 | 93 20420 51679 94164 48185 32455 |
| 28 | 8 99967 67454 53939 81285 61130 | 243 62336 67027 19192 82750 33655 |
| 29 | 20 81953 65015 29327 01941 21445 | 612 61011 32663 30725 15460 39985 |
| 30 | 46 69014 74052 43622 43268 62975 | 1487 03064 63305 62459 96991 40675 |
| 31 | 101 75959 55641 58431 15449 26640 | 3494 70698 47560 38224 57542 48600 |
| 32 | 216 00913 72636 97616 57306 96960 | 7972 12918 95790 09195 37310 20760 |
| 33 | 447 45915 03351 00032 59040 10060 | 17692 54036 64454 01941 16123 83960 |
| 34 | 906 07083 72109 49921 11735 28340 | 38275 66128 18600 03440 31968 46720 |
| 35 | 1796 22528 95303 66273 82615 30600 | 80860 99063 07746 49732 83526 78700 |
| 36 | 3490 94410 26765 02983 13347 50120 | 1 67079 80452 82322 30876 49061 47500 |
| 37 | 6659 51621 43823 34420 46405 28380 | 3 38136 06555 93808 77050 03089 03380 |

| n | $-^{13}P_n^{n-15}$ |
|-----|--|
| 15 | 22732 42813 89004 80000 |
| 16 | 5 24457 35132 50745 85600 |
| 17 | 63 76220 17310 86191 24480 |
| 18 | 542 97220 16894 88078 25920 |
| 19 | 3633 24645 46426 09299 61248 |
| 20 | 20326 56874 17202 28583 43200 |
| 21 | 98820 13567 07553 52756 17360 |
| 22 | 4 28548 52609 21436 05647 26800 |
| 23 | 16 89239 21528 99963 20568 58720 |
| 24 | 61 38157 05954 20608 05889 81872 |
| 25 | 207 86305 48300 23134 19102 02500 |
| 26 | 661 71364 32465 00487 53018 87300 |
| 27 | 1994 18160 04356 66450 53276 83950 |
| 28 | 5722 34980 71554 33029 80689 82150 |
| 29 | 15710 90784 19669 19935 73453 62005 |
| 30 | 41440 53259 91528 10392 22790 41375 |
| 31 | 1 05382 85039 13669 96170 93420 90400 |
| 32 | 2 59149 95772 06326 78052 25290 28800 |
| 33 | 6 17895 77125 16880 91844 04249 63000 |
| 34 | 14 31752 62810 81765 81137 45946 25160 |

| n | $-{}^{13}P_n^{n-15}$ |
|-----|--|
| 35 | 32 30708 70835 55967 42832 48464 21000 |
| 36 | 71 12036 25863 27799 30008 57749 98600 |
| 37 | 152 98946 68051 61592 42956 61762 26100 |
| n | ${}^{13}P_n^{n-16}$ |
| 16 | 6 36507 98788 92134 40000 |
| 17 | 158 45771 17631 63764 22400 |
| 18 | 2071 32376 36957 49501 56800 |
| 19 | 18903 46201 60698 79927 60320 |
| 20 | 1 35167 34856 46333 77515 20256 |
| 21 | 8 05944 11704 14009 20768 45856 |
| 22 | 41 65828 72984 70829 14478 36096 |
| 23 | 191 65027 14307 21091 12132 74096 |
| 24 | 799 77638 89351 19766 52601 88016 |
| 25 | 3070 89450 09656 82264 70525 17280 |
| 26 | 10969 69058 45065 61363 96402 12280 |
| 27 | 36776 52267 11200 80377 64138 16980 |
| 28 | 1 16543 78668 85467 38398 95211 74980 |
| 29 | 3 51160 12878 19194 92621 03494 43130 |
| 30 | 10 11018 25814 45301 29921 88546 47340 |
| 31 | 27 92961 15990 81009 76787 68534 26465 |
| 32 | 74 29806 57712 82488 08308 79054 04065 |
| 33 | 190 91554 67455 67193 20660 17117 00065 |
| 34 | 475 14760 15213 43715 45486 12599 98065 |
| 35 | 1148 07133 67321 86708 58946 72073 80585 |
| 36 | 2698 81151 67428 73145 14905 98355 88585 |
| 37 | 6183 70928 34729 35310 85326 28105 19985 |
| n | $-{}^{13}P_n^{n-17}$ |
| 17 | 184 58731 64878 71897 60000 |
| 18 | 4938 31866 93827 84824 32000 |
| 19 | 69149 35534 39510 19372 92800 |
| 20 | 6 74060 13985 81871 77056 23040 |
| 21 | 51 34582 64249 10886 35057 91488 |
| 22 | 325 36682 62189 87199 41185 50592 |
| 23 | 1783 40688 16654 66219 47928 13952 |
| 24 | 8682 81665 31714 25499 84706 81408 |
| 25 | 38274 54304 37708 56861 30976 38000 |
| 26 | 1 54968 53408 04667 82920 10932 94640 |
| 27 | 5 82786 46687 62226 76114 70615 73560 |
| 28 | 20 53847 37372 10258 91220 36142 52760 |
| 29 | 68 32142 62795 14421 65577 39824 26940 |
| 30 | 215 80868 03679 20608 55660 86590 38400 |
| 31 | 650 54653 13700 68564 42301 94088 74020 |

| n | $-{}^{13}P_n^{n-17}$ |
|-----|--|
| 32 | 1879 44944 17296 32994 20960 09596 38480 |
| 33 | 5222 86240 14373 44957 94855 67028 21405 |
| 34 | 14004 97755 17334 35845 45223 54410 24395 |
| 35 | 36336 91482 32365 90471 83071 46609 33450 |
| 36 | 91444 33898 63815 52484 12514 06152 01530 |
| 37 | 2 23686 10330 67823 36596 42907 25590 42195 |
| n | ${}^{13}P_n^{n-18}$ |
| 18 | 5537 61949 46361 56928 00000 |
| 19 | 1 58625 49824 55024 86481 92000 |
| 20 | 23 71404 86925 19351 06415 61600 |
| 21 | 246 15389 48457 21119 49271 21920 |
| 22 | 1991 91199 32926 91255 41240 32512 |
| 23 | 13379 75091 09572 43234 82733 03232 |
| 24 | 77582 39865 09140 27136 08146 05504 |
| 25 | 3 98846 61481 82567 70630 42298 17600 |
| 26 | 18 53279 25048 15493 31360 19400 61600 |
| 27 | 78 97052 07961 97538 65244 45785 52560 |
| 28 | 312 08510 75466 86609 09832 70414 94960 |
| 29 | 1154 16253 07723 07224 49867 52258 58120 |
| 30 | 4023 66243 45119 12934 04118 24877 89600 |
| 31 | 13303 43569 03324 99101 97535 48264 40800 |
| 32 | 41927 48307 06155 15936 58820 88168 97680 |
| 33 | 1 26502 70794 84490 00676 02025 20006 29280 |
| 34 | 3 66754 37841 45668 68741 65386 03304 13910 |
| 35 | 10 24988 32334 60383 53477 90892 60585 60475 |
| 36 | 27 69160 23486 13946 96125 78322 97833 66075 |
| 37 | 72 49932 84519 40907 67847 91511 99282 41045 |
| n | $-{}^{13}P_n^{n-19}$ |
| 19 | 1 71666 20433 37208 64768 00000 |
| 20 | 52 47682 14818 98004 32189 44000 |
| 21 | 835 04042 83350 36589 43904 76800 |
| 22 | 9204 27285 30895 54652 19126 22080 |
| 23 | 78921 19261 83337 48591 62537 60000 |
| 24 | 5 60592 22541 27945 05045 40926 76352 |
| 25 | 34 31140 97549 66135 09080 42330 80000 |
| 26 | 185 87312 33859 03707 93036 49661 48800 |
| 27 | 908 65203 10737 07947 16084 06285 51200 |
| 28 | 4067 47286 29216 09493 25862 37706 53600 |
| 29 | 16862 96227 23357 60466 29003 24719 46960 |
| 30 | 65337 78856 47726 63895 23439 19579 88000 |
| 31 | 2 38355 27324 87849 20059 00523 89329 40800 |
| 32 | 8 23706 44362 34148 80545 92085 12963 36000 |
| 33 | 27 10443 18180 11130 97692 39024 80567 31600 |

| n | $-{}^{13}P_n^{n-19}$ |
|-----|--|
| 34 | 85 29567 74742 97671 28789 32184 00856 78480 |
| 35 | 257 67023 53291 44099 59647 05327 56151 32250 |
| 36 | 749 66463 05352 42509 26586 68172 64260 35050 |
| 37 | 2106 55314 56173 25910 36750 05998 58109 72725 |
| n | ${}^{13}P_n^{n-20}$ |
| 20 | 54 93318 53867 90676 72576 00000 |
| 21 | 1786 66829 42894 24819 34827 52000 |
| 22 | 30178 04285 76806 68860 27589 63200 |
| 23 | 3 52327 59271 58150 81686 97007 36000 |
| 24 | 31 93490 52697 58300 30985 48360 96000 |
| 25 | 239 35402 86724 92267 17665 62651 21024 |
| 26 | 1543 18759 93612 05400 62721 71221 61024 |
| 27 | 8792 23941 14114 50009 91145 08019 64224 |
| 28 | 45138 32065 43597 67896 34507 59440 12224 |
| 29 | 2 11904 70803 41457 57119 94865 05408 09824 |
| 30 | 9 20149 12347 22476 96704 13001 43625 82144 |
| 31 | 37 29674 03175 74722 44199 20886 85560 66144 |
| 32 | 142 17306 05470 40087 26795 43938 16054 61344 |
| 33 | 512 84096 01775 76783 51361 87768 99405 81344 |
| 34 | 1759 64482 38060 88808 45211 82910 05502 34944 |
| 35 | 5768 54166 50980 79358 98309 95558 45771 23504 |
| 36 | 18136 71296 08969 96139 61368 51281 41034 71504 |
| 37 | 54870 27985 71238 79093 64115 91740 89791 88954 |
| n | $-{}^{13}P_n^{n-21}$ |
| 21 | 1812 79511 77640 92331 95008 00000 |
| 22 | 62559 51712 36045 36189 79143 68000 |
| 23 | 11 18791 01714 24279 46299 44780 80000 |
| 24 | 138 02584 35491 17708 87030 37045 76000 |
| 25 | 1319 61733 85301 74820 33493 26401 28000 |
| 26 | 10415 07042 80848 80973 04787 07147 26912 |
| 27 | 70599 38680 31718 91597 50933 84790 06848 |
| 28 | 4 22288 96325 96298 91993 96737 05575 75808 |
| 29 | 22 72960 11008 83803 75744 11548 42620 76992 |
| 30 | 111 72957 84752 25021 74781 95880 69760 89600 |
| 31 | 507 39370 15682 91531 33059 54942 45671 21792 |
| 32 | 2148 45027 55415 79318 77824 73964 10340 32128 |
| 33 | 8546 23800 01583 83245 83619 51181 32797 92608 |
| 34 | 32136 92216 83269 15287 46265 88555 05465 34432 |
| 35 | 1 14840 22888 72130 89284 71221 85327 64075 76800 |
| 36 | 3 91730 22881 19208 98515 90099 72133 61095 04992 |
| 37 | 12 80429 16389 58737 09356 97156 84922 71796 08688 |

| n | ${}^{13}P_n^{n-22}$ |
|-----|--|
| 22 | 61635 03400 39791 39286 30272 00000 |
| 23 | 22 51218 13333 01379 05929 00300 80000 |
| 24 | 425 27694 75045 75439 72709 12409 60000 |
| 25 | 5532 23315 88219 30667 92832 83102 72000 |
| 26 | 55677 69202 29685 73840 65576 86351 36000 |
| 27 | 4 61865 43871 82789 31789 52272 65094 85568 |
| 28 | 32 85840 91084 51545 95689 89626 56697 59488 |
| 29 | 205 99688 40448 99801 67442 55845 85303 67616 |
| 30 | 1160 64013 02820 19559 48695 40879 75376 01280 |
| 31 | 5965 01200 47166 95494 64319 63749 75094 54080 |
| 32 | 28290 33487 37215 22873 18939 81217 84628 12928 |
| 33 | 1 24970 59727 30925 92218 21053 09602 49942 58688 |
| 34 | 5 18097 54528 03782 21526 67550 63943 58647 18656 |
| 35 | 20 28532 88719 17432 40037 42047 26031 15518 36960 |
| 36 | 75 40863 87377 79715 25703 60696 21757 91155 23360 |
| 37 | 267 35645 08556 20955 52982 75582 56304 84812 67968 |
| n | $-{}^{13}P_n^{n-23}$ |
| 23 | 21 57226 19013 92698 75020 59520 00000 |
| 24 | 832 01078 99002 42344 88464 70348 80000 |
| 25 | 16567 25784 75695 33614 78702 29504 00000 |
| 26 | 2 26792 11788 28028 98996 06349 87407 36000 |
| 27 | 23 98222 10677 85772 78781 63847 55110 40000 |
| 28 | 208 72839 65550 97345 50362 54753 58904 62720 |
| 29 | 1555 92317 00016 10729 73648 29442 83506 01728 |
| 30 | 10207 79229 98874 02400 06235 74968 66260 41600 |
| 31 | 60115 31790 20142 43458 00138 32798 07428 96640 |
| 32 | 3 22575 84610 95488 45222 30202 37787 11588 76160 |
| 33 | 15 95640 91542 70173 74515 82493 92590 19854 57920 |
| 34 | 73 44288 38998 92766 16553 50936 34305 17213 57568 |
| 35 | 316 94873 01816 70530 28307 25816 39653 73631 34400 |
| 36 | 1290 64451 60337 07285 50103 44084 89149 18513 08480 |
| 37 | 4985 66781 41849 13333 09580 18199 55286 85119 53120 |
| n | ${}^{13}P_n^{n-24}$ |
| 24 | 776 60142 84501 37155 00741 42720 00000 |
| 25 | 31561 00065 47591 03915 73935 45625 60000 |
| 26 | 6 61116 79886 24013 81277 64622 66777 60000 |
| 27 | 95 06009 39629 17144 42124 12267 75664 64000 |
| 28 | 1054 34893 66743 48055 93389 66169 80080 64000 |
| 29 | 9612 21319 54333 39221 58254 11066 95170 35520 |
| 30 | 74960 98633 55009 89870 51482 47666 02423 08096 |
| 31 | 5 13896 05523 06592 93073 19619 71318 51620 96896 |
| 32 | 31 58970 04291 92860 05225 25706 14433 78495 49056 |
| 33 | 176 74883 11784 89840 40228 84813 14853 99989 76256 |

| n | ${}^{13}P_n^{n-24}$ |
|-----|---|
| 34 | 910 74365 22749 17832 67956 79533 74003 13300 40576 |
| 35 | 4362 55919 55698 77842 45971 73541 86346 22338 46272 |
| 36 | 19576 09824 42900 63296 04720 12728 89725 56642 97472 |
| 37 | 82817 67952 99417 20285 59788 72888 58035 63784 12992 |
| n | $-{}^{13}P_n^{n-25}$ |
| 25 | 28734 25285 26550 74735 27432 80640 00000 |
| 26 | 12 28052 27773 35010 23533 36980 14412 80000 |
| 27 | 270 11607 43336 71548 93361 57264 18739 20000 |
| 28 | 4072 51983 28503 57325 78326 47974 45324 80000 |
| 29 | 47300 82623 64986 27619 07302 60936 28631 04000 |
| 30 | 4 51013 78044 46988 74925 53975 25748 25785 95840 |
| 31 | 36 74336 19287 12414 39357 67721 75387 29978 43968 |
| 32 | 262 85762 62302 02503 34578 30989 13402 01301 07392 |
| 33 | 1684 39414 55438 81205 69714 87765 62922 33598 14912 |
| 34 | 9814 84037 97544 13864 20241 89170 46206 33127 22688 |
| 35 | 52619 79203 66755 52000 14211 27256 24353 58246 29760 |
| 36 | 2 62022 63342 40296 88438 20854 57265 68972 30492 50816 |
| 37 | 12 21251 44739 42427 89944 52140 80981 65525 05998 26944 |
| n | ${}^{13}P_n^{n-26}$ |
| 26 | 10 91901 60840 08928 39940 42446 64320 00000 |
| 27 | 489 85940 44000 74327 57741 84672 26419 20000 |
| 28 | 11294 50237 77469 36284 92204 75239 75987 20000 |
| 29 | 1 78267 81552 46115 86642 03590 42192 34304 00000 |
| 30 | 21 64902 51745 75539 46643 10300 01516 36807 68000 |
| 31 | 215 58495 07657 96055 68441 31236 08691 45603 89120 |
| 32 | 1832 29287 56291 42289 00179 10993 25732 64655 23712 |
| 33 | 13660 88605 59882 54939 56203 05504 28823 23203 56352 |
| 34 | 91143 01675 10067 90401 63087 42723 23250 68718 42304 |
| 35 | 5 52440 51459 94642 42019 14456 33734 94948 25698 08640 |
| 36 | 30 78190 53235 98907 38025 96597 42034 63920 21520 37120 |
| 37 | 159 17299 57013 73454 71498 18471 48053 43563 15653 27104 |
| n | $-{}^{13}P_n^{n-27}$ |
| 27 | 425 84162 72763 48207 57676 55419 08480 00000 |
| 28 | 20020 21780 32793 21310 67350 42309 65248 00000 |
| 29 | 4 83094 81529 09037 08992 47745 27139 80723 20000 |
| 30 | 79 70343 06732 45903 47957 98542 99218 21491 20000 |
| 31 | 1010 61151 31799 94100 53611 41443 64422 04221 44000 |
| 32 | 10496 34934 68750 20550 65029 15831 46846 10792 65280 |
| 33 | 92949 52875 01864 23555 73089 10528 04815 20278 32320 |
| 34 | 7 21350 28732 56461 50775 58429 63725 30683 87642 24512 |

| n | $-{}^{13}P_n^{n-27}$ |
|-----|--|
| 35 | 50 05072 07462 29652 99652 23538 71717 23466 17408 12800 |
| 36 | 315 22216 77539 72489 16571 17442 90994 80982 50916 27520 |
| 37 | 1823 53552 86103 18950 79843 50716 50692 13073 05414 46400 |
| n | ${}^{13}P_n^{n-28}$ |
| 28 | 17033 66509 10539 28303 07062 16763 39200 00000 |
| 29 | 8 37862 59502 55061 02040 68429 51459 14368 00000 |
| 30 | 211 27844 83724 34618 79724 73730 91331 04742 40000 |
| 31 | 3638 52596 73220 08468 41918 11079 57714 28864 00000 |
| 32 | 48105 43254 72417 48892 00820 34599 92284 14607 36000 |
| 33 | 5 20441 15315 66176 73671 27132 47016 00359 00276 73600 |
| 34 | 47 96119 47566 51931 57234 89231 31306 21858 33079 60320 |
| 35 | 386 99582 97997 05622 43687 35424 26395 64000 52265 12384 |
| 36 | 2789 43042 56187 28966 26994 65282 68822 90376 87855 26784 |
| 37 | 18235 31664 55633 80935 38982 19985 27568 58519 82752 75264 |
| n | $-{}^{13}P_n^{n-29}$ |
| 29 | 6 98380 26873 32110 60425 89548 87299 07200 00000 |
| 30 | 358 88609 25980 44673 46134 63588 48583 10656 00000 |
| 31 | 9443 85937 26127 33281 74298 34017 75818 14579 20000 |
| 32 | 1 69539 00193 47811 05892 18695 21519 15246 84595 20000 |
| 33 | 23 34283 46656 06598 06032 55610 78515 68033 41926 40000 |
| 34 | 262 74576 51176 50727 94911 03704 41251 84547 54656 25600 |
| 35 | 2516 92191 86802 91511 84950 97576 12644 11889 09397 60640 |
| 36 | 21092 72174 90661 61388 81943 97940 79634 83914 18123 55072 |
| 37 | 1 57774 81260 43838 80736 04681 96792 51957 12381 23031 67488 |
| n | ${}^{13}P_n^{n-30}$ |
| 30 | 293 31971 28679 48645 37887 61052 66561 02400 00000 |
| 31 | 15725 42169 45838 69604 21676 95357 55634 60608 00000 |
| 32 | 4 31255 23408 95441 34000 90803 92138 91633 02092 80000 |
| 33 | 80 60510 32115 46938 99149 32088 60500 77741 08876 80000 |
| 34 | 1154 37549 78294 50449 76646 90184 72222 07278 37491 20000 |
| 35 | 13503 42645 83590 34663 37465 64292 11058 81013 06335 23200 |
| 36 | 1 34315 67855 50130 27232 15112 47946 17976 51689 57420 33920 |
| 37 | 11 67859 04425 92549 35284 30367 47045 20083 63484 45474 32448 |
| n | $-{}^{13}P_n^{n-31}$ |
| 31 | 12612 74765 33217 91751 29167 25264 62124 03200 00000 |
| 32 | 7 04531 30221 50120 54336 82953 20997 10046 69952 00000 |
| 33 | 201 11016 83624 44980 84377 69129 67248 33532 64128 00000 |
| 34 | 3908 94491 60936 04174 45246 45205 50284 09622 72460 80000 |

| n | $-{}^{13}P_n^{n-31}$ |
|-----|---|
| 35 | 58164 59331 40777 75313 47650 83887 44721 51706 34547 20000 |
| 36 | 7 06329 06331 53114 39155 46001 69908 75544 40333 38638 33600 |
| 37 | 72 87797 31251 09497 73530 86513 19271 56393 73122 52234 95680 |
| n | ${}^{13}P_n^{n-32}$ |
| 32 | 5 54960 89674 61588 37056 83359 11643 33457 40800 00000 |
| 33 | 322 58869 49642 17012 82214 16253 56512 85558 88640 00000 |
| 34 | 9573 65643 96366 86131 63587 96218 49936 28060 38528 00000 |
| 35 | 1 93294 06749 60360 82330 90171 20877 13288 80328 44185 60000 |
| 36 | 29 85194 54657 17692 97377 77411 47474 59921 62233 02451 20000 |
| 37 | 375 95318 64902 20298 15995 31494 73003 61597 38568 95729 66400 |
| n | $-{}^{13}P_n^{n-33}$ |
| 33 | 249 73240 35357 71476 67557 51160 23950 05583 36000 00000 |
| 34 | 15088 81237 18897 54066 49408 98824 23541 41292 13440 00000 |
| 35 | 4 65050 66503 48140 02253 38043 21093 70546 60130 24256 00000 |
| 36 | 97 43165 90484 45459 54136 66261 23196 08409 15895 45164 80000 |
| 37 | 1560 17698 68686 12415 25647 59423 49451 44568 65313 65273 60000 |
| n | ${}^{13}P_n^{n-34}$ |
| 34 | 11487 69056 26454 87927 07645 53371 01702 56834 56000 00000 |
| 35 | 7 20661 87204 14639 29052 29867 98110 08148 97564 87680 00000 |
| 36 | 230 43093 79371 25360 37214 55942 10607 94385 83816 51968 00000 |
| 37 | 5004 58223 13109 52877 89911 02742 47216 06434 62693 65043 20000 |
| n | $-{}^{13}P_n^{n-35}$ |
| 35 | 5 39921 45644 43379 32572 59340 08437 80020 71224 32000 00000 |
| 36 | 351 31691 31443 46065 27082 93003 17721 71171 54338 40640 00000 |
| 37 | 11642 43287 20634 88723 50596 34166 37510 96077 61347 87072 00000 |
| n | ${}^{13}P_n^{n-36}$ |
| 36 | 259 16229 90932 82207 63484 48324 05014 40994 18767 36000 00000 |
| 37 | 17473 69104 31662 39405 90548 05479 73378 28399 81349 27360 00000 |
| n | $-{}^{13}P_n^{n-37}$ |
| 37 | 12698 95265 55708 28174 10739 67878 45706 08715 19600 64000 00000 |

TABLEAUX ${}^{14}P_n^r$

| n | $-{}^{14}P_n^{n-1}$ | ${}^{14}P_n^{n-2}$ | $-{}^{14}P_n^{n-3}$ | ${}^{14}P_n^{n-4}$ | $-{}^{14}P_n^{n-5}$ |
|-----|---------------------|--------------------|---------------------|--------------------|---------------------|
| 1 | 14 | | | | |
| 2 | 29 | 210 | | | |
| 3 | 45 | 674 | 3360 | | |
| 4 | 62 | 1439 | 14818 | 57120 | |
| 5 | 80 | 2555 | 40720 | 3 23844 | 10 28160 |
| 6 | 99 | 4075 | 89265 | 10 97524 | 71 81196 |
| 7 | 119 | 6055 | 1 70765 | 28 82824 | 291 31676 |
| 8 | 140 | 8554 | 2 97920 | 64 68889 | 896 70980 |
| 9 | 162 | 11634 | 4 86108 | 130 23129 | 2319 86538 |
| 10 | 185 | 15360 | 7 53690 | 242 03613 | 5315 18505 |
| 11 | 209 | 19800 | 11 22330 | 422 92173 | 11124 05217 |
| 12 | 234 | 25025 | 16 17330 | 703 50423 | 21697 09542 |
| 13 | 260 | 31109 | 22 67980 | 1124 01003 | 39988 20540 |
| 14 | 287 | 38129 | 31 07923 | 1736 36463 | 70336 47621 |
| 15 | 315 | 46165 | 41 75535 | 2606 58307 | 1 18954 68585 |
| 16 | 344 | 55300 | 55 14320 | 3817 48822 | 1 94545 59488 |
| 17 | 374 | 65620 | 71 73320 | 5471 78422 | 3 09070 24148 |
| 18 | 405 | 77214 | 92 07540 | 7695 51342 | 4 78695 55230 |
| 19 | 437 | 90174 | 116 78388 | 10641 92622 | 7 24951 98174 |
| 20 | 470 | 1 04595 | 146 54130 | 14495 79426 | 10 76135 54700 |
| 21 | 504 | 1 20575 | 182 10360 | 19478 19846 | 15 68992 55184 |
| 22 | 539 | 1 38215 | 224 30485 | 25851 82446 | 22 50729 49794 |
| 23 | 575 | 1 57619 | 274 06225 | 33926 79906 | 31 81395 17850 |
| 24 | 612 | 1 78894 | 332 38128 | 44067 10231 | 44 36686 74372 |
| 25 | 650 | 2 02150 | 400 36100 | 56697 59095 | 61 11236 63150 |
| 26 | 689 | 2 27500 | 479 19950 | 72311 66995 | 83 22442 67855 |
| 27 | 729 | 2 55060 | 570 19950 | 91479 64995 | 112 14909 47655 |
| 28 | 770 | 2 84949 | 674 77410 | 1 14857 82945 | 149 65575 12450 |
| 29 | 812 | 3 17289 | 794 45268 | 1 43198 34165 | 197 89603 96140 |
| 30 | 855 | 3 52205 | 930 88695 | 1 77359 80689 | 259 47132 65235 |
| 31 | 899 | 3 89825 | 1085 85715 | 2 18318 83269 | 337 50964 15551 |
| 32 | 944 | 4 30280 | 1261 27840 | 2 67182 40444 | 435 75311 62656 |
| 33 | 990 | 4 73704 | 1459 20720 | 3 25201 21084 | 558 65702 23080 |
| 34 | 1037 | 5 20234 | 1681 84808 | 3 93783 94924 | 711 50159 14028 |
| 35 | 1085 | 5 70010 | 1931 56040 | 4 74512 65708 | 900 51788 70380 |
| 36 | 1134 | 6 23175 | 2210 86530 | 5 69159 11668 | 1133 02908 90072 |

| n | ${}^{14}P_n^{n-6}$ | $-{}^{14}P_n^{n-7}$ | ${}^{14}P_n^{n-8}$ |
|-----|--------------------|---------------------|--------------------|
| 6 | 195 35040 | | |
| 7 | 1631 58960 | 3907 00800 | |
| 8 | 7749 24156 | 38170 38960 | 82047 16800 |

| n | ${}^{14}P_n^{n-6}$ | $-{}^{14}P_n^{n-7}$ | ${}^{14}P_n^{n-8}$ |
|-----|---------------------|-----------------------|-------------------------|
| 9 | 27476 85716 | 2 08653 70392 | 9 21795 73920 |
| 10 | 80833 76090 | 8 40621 41860 | 57 20830 92936 |
| 11 | 2 08398 20210 | 27 80631 68020 | 258 95744 97576 |
| 12 | 4 86499 50635 | 79 90586 73270 | 954 11536 98076 |
| 13 | 10 50623 98727 | 206 39573 89780 | 3031 66792 03096 |
| 14 | 21 30305 53307 | 490 06421 55409 | 8604 35287 27156 |
| 15 | 40 99726 86695 | 1086 54976 48005 | 22326 15090 78608 |
| 16 | 75 49412 75660 | 2275 47055 62160 | 53836 09408 70753 |
| 17 | 133 85780 60300 | 4540 29438 31960 | 1 22100 21077 35553 |
| 18 | 229 66958 08888 | 8689 88637 01260 | 2 62849 33665 26313 |
| 19 | 382 85215 76248 | 16039 31295 85676 | 5 40925 70049 66633 |
| 20 | 622 08631 15990 | 28673 43416 01860 | 10 70223 02812 93941 |
| 21 | 987 97239 75790 | 49824 36875 45520 | 20 45119 78957 57181 |
| 22 | 1537 11979 07230 | 84403 40266 98170 | 37 88972 69598 50381 |
| 23 | 2347 38240 99814 | 1 39739 71513 58450 | 68 27495 19209 84501 |
| 24 | 3524 49862 60264 | 2 26592 86430 51568 | 119 97864 65212 47151 |
| 25 | 5210 43958 86400 | 3 60523 81209 41600 | 206 08393 49572 06735 |
| 26 | 7593 82187 49250 | 5 63730 95605 11200 | 346 68822 16739 29135 |
| 27 | 10922 79894 63450 | 8 67483 83104 81200 | 572 18060 40943 77135 |
| 28 | 15520 91183 17305 | 13 15318 58784 82650 | 927 84897 48241 06335 |
| 29 | 21806 45338 40205 | 19 67196 88478 09460 | 1480 28278 17203 77635 |
| 30 | 30315 98308 74225 | 29 04874 38029 38275 | 2326 17744 21761 84415 |
| 31 | 41732 72145 44565 | 42 38777 63614 04175 | 3604 32216 95054 68515 |
| 32 | 56920 65532 44360 | 61 16750 10159 09600 | 5511 77210 57686 56390 |
| 33 | 76965 29867 26536 | 87 35100 24651 50160 | 8325 47715 25004 97990 |
| 34 | 1 03222 17872 11296 | 123 52469 28412 97352 | 12430 97426 83625 55510 |
| 35 | 1 37374 25510 84640 | 173 07133 86274 39560 | 18360 15952 47448 28406 |
| 36 | 1 81499 63157 33260 | 240 38472 36305 86920 | 26840 65511 74893 66846 |

| n | $-{}^{14}P_n^{n-9}$ | ${}^{14}P_n^{n-10}$ |
|-----|------------------------|-------------------------|
| 9 | 18 05037 69600 | |
| 10 | 230 06339 69760 | 415 15867 00800 |
| 11 | 1603 06282 00224 | 5936 68019 75040 |
| 12 | 8076 99906 39624 | 46013 25069 80640 |
| 13 | 32883 99867 89600 | 2 56015 22636 10864 |
| 14 | 1 14739 03252 73192 | 11 43883 19069 30064 |
| 15 | 3 55660 91296 33560 | 43 56576 10145 79440 |
| 16 | 10 03119 28929 13192 | 146 70742 57739 52680 |
| 17 | 26 18202 11190 35782 | 447 64321 25613 48440 |
| 18 | 64 03308 64588 37925 | 1259 28586 72514 57682 |
| 19 | 148 14487 41876 79941 | 3308 34463 39342 71282 |
| 20 | 326 65035 53515 78830 | 8197 12548 21277 09335 |
| 21 | 690 52618 49155 72824 | 19303 23756 40813 89555 |
| 22 | 1406 31811 12670 74159 | 43471 65403 61264 38395 |
| 23 | 2770 34828 18216 87875 | 94099 10604 17411 08119 |

| n | $-{}^{14}P_n^{n-9}$ | ${}^{14}P_n^{n-10}$ |
|-----|---------------------------------|----------------------------------|
| 24 | 5296 52150 28981 14412 | 1 96601 99246 91435 59494 |
| 25 | 9855 71007 07055 06150 | 3 97869 80957 92719 07150 |
| 26 | 17892 98353 40365 68815 | 7 82242 50233 67866 47000 |
| 27 | 31760 51240 09937 34215 | 14 97961 84369 82493 99600 |
| 28 | 55219 91716 88631 96750 | 28 00142 85213 89925 02415 |
| 29 | 94189 57411 14756 62820 | 51 19379 37323 12467 65915 |
| 30 | 1 57841 73372 54519 01125 | 91 69531 06002 47002 67175 |
| 31 | 2 60193 54118 12040 15385 | 161 14567 34394 45839 16675 |
| 32 | 4 22388 03880 89500 98560 | 278 23276 69709 87646 09000 |
| 33 | 6 75929 55567 43082 92500 | 472 53126 48231 04691 42760 |
| 34 | 10 67226 98184 18316 98030 | 790 21815 59900 29588 90260 |
| 35 | 16 63913 74672 32343 62510 | 1302 48710 72741 08803 95700 |
| 36 | 25 63561 56343 57309 54404 | 2117 80484 31684 93641 58690 |
| n | $-{}^{14}P_n^{n-11}$ | ${}^{14}P_n^{n-12}$ |
| 11 | 9963 80808 19200 | |
| 12 | 1 58380 81301 95200 | 2 49095 20204 80000 |
| 13 | 13 54725 33116 91840 | 43 66996 34055 55200 |
| 14 | 82 67136 44291 85168 | 409 44580 28212 34880 |
| 15 | 402 95865 78232 26960 | 2724 24400 68384 19584 |
| 16 | 1666 36572 72460 30720 | 14410 04508 37120 01424 |
| 17 | 6067 58850 04646 11120 | 64401 01690 10929 23024 |
| 18 | 19944 52808 98664 12760 | 2 52496 26041 54958 67744 |
| 19 | 60241 67584 19130 58584 | 8 90721 15929 12210 76064 |
| 20 | 1 69417 04876 17440 10890 | 28 78696 46207 43520 09336 |
| 21 | 4 48119 31515 40861 28280 | 86 38876 11997 36483 79596 |
| 22 | 11 23732 62989 69347 62705 | 243 23052 15036 66628 69396 |
| 23 | 26 88712 17519 74865 44925 | 647 77426 82665 63143 26776 |
| 24 | 61 70379 09874 19075 45328 | 1642 59777 30896 33164 89001 |
| 25 | 136 41254 81256 93628 06100 | 3987 34183 06115 58032 11465 |
| 26 | 291 58177 38616 09671 84950 | 9307 43120 75136 09526 49365 |
| 27 | 604 47877 47963 24330 64950 | 20970 70216 19779 96400 47365 |
| 28 | 1218 64313 07126 06584 48550 | 45754 33192 86272 93957 10315 |
| 29 | 2394 70312 86109 83435 49980 | 96937 34341 85567 70505 49415 |
| 30 | 4596 03625 91004 19544 84325 | 1 99909 57794 88290 58231 98555 |
| 31 | 8630 62992 55112 87662 40025 | 4 02135 17334 92475 18205 08855 |
| 32 | 15882 18523 02863 50424 90400 | 7 90513 51999 72554 63013 09980 |
| 33 | 28680 89251 09517 82145 04400 | 15 21094 04059 04275 82558 68380 |
| 34 | 50889 86195 76377 02642 14120 | 28 69095 98860 51613 43375 75180 |
| 35 | 88820 33344 51591 22909 46600 | 53 11809 36257 17710 70198 52940 |
| 36 | 1 52642 20170 15904 54303 35900 | 96 64005 70138 45680 92762 36340 |
| n | $-{}^{14}P_n^{n-13}$ | ${}^{14}P_n^{n-14}$ |
| 13 | 64 76475 25324 80000 | |

| n | $-{}^{14}P_n^{n-13}$ | ${}^{14}P_n^{n-14}$ |
|-----|------------------------------------|---------------------------------------|
| 14 | 1243 85376 44824 70400 | 1748 64831 83769 60000 |
| 15 | 12708 33624 34770 47040 | 36576 55372 38861 31200 |
| 16 | 91711 41244 17912 14976 | 4 05118 30478 47204 95360 |
| 17 | 5 24012 76495 31512 57696 | 31 56460 67803 84569 44640 |
| 18 | 25 20444 28888 70318 71440 | 194 00856 39158 61459 33216 |
| 19 | 106 00324 62218 28996 39248 | 1000 55073 63597 11658 19296 |
| 20 | 399 94122 87879 31951 49360 | 4498 65786 16800 68539 14480 |
| 21 | 1378 69802 58932 11634 66784 | 18096 65964 04697 54889 92720 |
| 22 | 4402 30466 78839 88567 52644 | 66351 09054 67321 62103 30160 |
| 23 | 13158 60344 20159 87200 50900 | 2 24834 05859 05557 50534 25344 |
| 24 | 37126 25136 78788 23501 41612 | 7 11702 38594 51472 76953 08644 |
| 25 | 99544 96674 52848 83767 23650 | 21 22499 93792 45425 70006 89900 |
| 26 | 2 55051 29813 91356 47019 70785 | 60 04753 64099 06530 36929 12250 |
| 27 | 6 27348 54643 96800 28079 45385 | 162 06805 56655 60789 17717 43650 |
| 28 | 14 87147 33508 07778 80498 87350 | 419 28095 97058 29600 68975 04435 |
| 29 | 34 08829 27608 31242 26697 20580 | 1043 88284 04397 56310 49927 73135 |
| 30 | 75 77135 04308 10653 58433 45425 | 2509 67942 91554 99727 97907 58075 |
| 31 | 163 73156 47282 95439 20640 81845 | 5843 61884 81111 68485 68979 56775 |
| 32 | 344 69239 27354 56822 39869 80320 | 13211 53926 08844 63249 97816 39800 |
| 33 | 708 32861 19341 94335 38472 39400 | 29067 38932 67154 77080 31827 34520 |
| 34 | 1423 24281 10116 95299 18730 53260 | 62358 83408 76226 10843 40029 86320 |
| 35 | 2800 40888 55421 72744 00766 61900 | 1 30674 48901 61839 85204 39095 42800 |
| 36 | 5403 19547 32023 40568 40494 55960 | 2 67894 52440 77504 49660 76659 75900 |

| n | $-{}^{14}P_n^{n-15}$ |
|-----|---|
| 15 | 48962 15291 45548 80000 |
| 16 | 11 09682 21090 72526 84800 |
| 17 | 132 63231 35444 88675 45600 |
| 18 | 1111 13512 37364 10328 29440 |
| 19 | 7319 40916 90439 77026 92352 |
| 20 | 40337 58346 89144 61747 29120 |
| 21 | 1 93291 95076 60367 92078 21440 |
| 22 | 8 26675 03818 24782 13225 66640 |
| 23 | 32 15314 29786 48360 48944 52400 |
| 24 | 115 34174 46571 53988 18711 90128 |
| 25 | 385 78865 13163 09953 42929 18600 |
| 26 | 1213 56362 71068 81555 73198 24700 |
| 27 | 3615 46508 35031 42770 50363 14700 |
| 28 | 10260 25536 57911 35126 76778 04350 |
| 29 | 27870 05567 34359 78355 73729 90620 |
| 30 | 72757 01781 23454 99707 20622 35425 |
| 31 | 1 83182 91269 51874 87738 28555 90725 |
| 32 | 4 46145 76086 01900 69594 32636 45600 |
| 33 | 10 53876 56686 08753 79093 32190 76400 |
| 34 | 24 20043 86521 65028 01868 28075 98840 |
| 35 | 54 13267 90142 23881 22351 49509 42200 |
| 36 | 118 16317 86321 54033 97366 65185 39400 |

| n | ${}^{14}P_n^{n-16}$ |
|-----|--|
| 16 | 14 19902 43452 20915 20000 |
| 17 | 347 10368 76173 96720 64000 |
| 18 | 4458 70540 74965 45659 77600 |
| 19 | 40015 02936 70616 76165 19680 |
| 20 | 2 81555 53194 55129 18053 67296 |
| 21 | 16 53033 36988 86046 17461 57376 |
| 22 | 84 18251 64669 98923 40199 07776 |
| 23 | 381 78553 02126 91080 16323 06816 |
| 24 | 1571 45182 04226 80418 27270 45616 |
| 25 | 5954 43811 73945 31969 38322 70480 |
| 26 | 21000 19551 87306 20153 12560 95880 |
| 27 | 69542 74060 30058 82382 40490 83880 |
| 28 | 2 17776 80902 66347 35973 05379 86580 |
| 29 | 6 48707 53438 98624 11297 30057 69280 |
| 30 | 18 47119 92834 76094 80594 00443 65940 |
| 31 | 50 48428 71209 08114 67711 07827 24640 |
| 32 | 132 91659 78337 42484 15933 92843 07265 |
| 33 | 338 14364 78294 29916 17272 94120 04865 |
| 34 | 833 46563 42540 41344 34659 07085 95665 |
| 35 | 1995 08668 95579 62689 24336 54733 39985 |
| 36 | 4647 58796 12549 32869 19559 80695 07785 |

| n | ${}^{14}P_n^{n-17}$ |
|-----|---|
| 17 | 425 97073 03566 27456 00000 |
| 18 | 11186 18504 64959 25795 84000 |
| 19 | 1 53864 75808 63853 86908 67200 |
| 20 | 14 74360 72719 94207 00360 16640 |
| 21 | 110 47248 81334 68599 14185 04704 |
| 22 | 689 03416 75944 80215 25340 12864 |
| 23 | 3719 60476 04064 41457 72506 92800 |
| 24 | 17845 66937 82760 11423 76460 44992 |
| 25 | 77560 83855 43378 67318 12737 78400 |
| 26 | 3 09783 92513 27246 14124 07323 27120 |
| 27 | 11 49791 74588 19494 20249 09761 62320 |
| 28 | 40 01044 11060 51905 97927 69886 01400 |
| 29 | 131 47670 08972 38495 08795 95840 37760 |
| 30 | 410 42094 06848 79331 94579 88321 16800 |
| 31 | 1223 15370 91578 27503 40716 07842 18160 |
| 32 | 3494 94662 95986 92663 87714 60068 26960 |
| 33 | 9609 11012 99508 46935 20675 30849 61150 |
| 34 | 25501 86157 79340 52995 32503 54491 89805 |
| 35 | 65508 21202 21280 37523 96138 94617 81725 |
| 36 | 1 63267 45981 04682 09296 88629 76554 40990 |

| n | ${}^{14}P_n^{n-18}$ |
|-----|--|
| 18 | 13205 09264 10554 51136 00000 |
| 19 | 3 71163 01412 89250 76602 88000 |
| 20 | 54 48700 03097 96428 44589 05600 |
| 21 | 555 76964 75575 99466 56834 71360 |
| 22 | 4422 30673 22290 00436 53311 36000 |
| 23 | 29227 53676 56302 88185 65555 99104 |
| 24 | 1 66852 91290 06686 22121 48312 32704 |
| 25 | 8 44988 34927 51570 56224 53809 42400 |
| 26 | 38 69861 05289 43338 81631 50583 00000 |
| 27 | 162 61218 05820 33184 46594 43513 84800 |
| 28 | 634 02679 63936 32446 76807 43740 39920 |
| 29 | 2314 46532 28478 12497 89770 78952 98720 |
| 30 | 7967 96346 14290 67786 67997 00089 22400 |
| 31 | 26026 48485 15637 58392 29511 86220 61600 |
| 32 | 81068 40176 36659 96045 61735 39118 78800 |
| 33 | 2 41835 94672 52058 58583 96607 02259 18960 |
| 34 | 6 93464 12283 28956 64538 68346 52190 93010 |
| 35 | 19 17553 47857 37302 08314 28516 67802 03650 |
| 36 | 51 27455 86765 80040 46988 39325 04075 08175 |
| n | $-{}^{14}P_n^{n-19}$ |
| 19 | 4 22562 96451 37744 36352 00000 |
| 20 | 126 70942 43076 83019 64247 04000 |
| 21 | 1979 26743 48407 61586 80274 94400 |
| 22 | 21431 20509 93567 42916 69489 92000 |
| 23 | 1 80634 24745 96007 58631 88698 88000 |
| 24 | 12 62053 10778 79214 21501 14270 54848 |
| 25 | 76 02463 79801 33290 62117 50138 97600 |
| 26 | 405 57009 41974 44542 54874 48706 51200 |
| 27 | 1953 51451 53551 78095 20134 72026 51200 |
| 28 | 8620 61391 92185 38658 30506 56094 28000 |
| 29 | 35249 73936 77511 01422 56418 93191 04640 |
| 30 | 1 34771 74825 02070 38832 16562 88169 49600 |
| 31 | 4 85362 14055 30860 21446 08430 92095 35200 |
| 32 | 16 56553 95887 34551 49099 36464 72023 07200 |
| 33 | 53 85700 44000 20909 67197 76292 71487 32000 |
| 34 | 167 51989 93608 67663 20644 16822 77669 23120 |
| 35 | 500 38267 83206 57582 18500 97455 82833 87600 |
| 36 | 1439 98388 28217 85384 25900 94773 05133 66450 |
| t | ${}^{14}P_n^{n-20}$ |
| 20 | 139 44577 82895 45563 99616 00000 |
| 21 | 4447 56620 47507 68231 84015 36000 |
| 22 | 73721 92642 41774 23769 93638 40000 |
| 23 | 8 45245 31000 10201 68770 95275 52000 |
| 24 | 75 28712 46600 62482 38150 77134 08000 |

| n | ${}^{14}P_n^{n-20}$ |
|-----|---|
| 25 | 554 86730 56194 72622 55194 19414 92224 |
| 26 | 3519 82818 68446 70956 77776 74834 98624 |
| 27 | 19742 63195 47424 52658 72756 23095 46624 |
| 28 | 99836 72708 43047 54561 98279 76182 45824 |
| 29 | 4 61902 51169 14833 78210 79555 32142 21824 |
| 30 | 19 77641 30450 47807 39381 05569 39357 21344 |
| 31 | 79 07598 22751 38904 47996 34336 18815 03744 |
| 32 | 297 48894 55240 27614 13070 13727 63105 87744 |
| 33 | 1059 50376 66058 16982 71640 91104 76167 18944 |
| 34 | 3590 78297 34067 99737 29935 76862 36071 22944 |
| 35 | 11631 73814 27284 47571 20855 84355 64194 32704 |
| 36 | 36150 48938 04406 69098 27403 59691 23054 25104 |
| n | $-{}^{14}P_n^{n-21}$ |
| 21 | 4741 15646 18445 49175 86944 00000 |
| 22 | 1 60405 97362 81214 37290 27481 60000 |
| 23 | 28 14395 32489 85086 93007 98464 00000 |
| 24 | 340 88471 79493 62549 37533 23658 24000 |
| 25 | 3201 79545 50317 36879 87262 54753 28000 |
| 26 | 24841 62037 41911 69159 39836 11935 24736 |
| 27 | 1 65634 74784 79780 07430 50906 05334 69696 |
| 28 | 9 75082 65799 24185 66438 33911 52248 81280 |
| 29 | 51 68225 19553 32182 58041 61661 51912 05888 |
| 30 | 250 30033 19826 70035 21105 82540 34027 44320 |
| 31 | 1120 46250 59647 73560 53872 27593 65744 83456 |
| 32 | 4678 88170 83460 24262 13707 72722 12421 51936 |
| 33 | 18363 37320 24512 94512 14934 04193 15291 88160 |
| 34 | 68160 05023 29246 92699 82056 86116 95149 78528 |
| 35 | 2 40517 63295 64510 80090 18973 75510 26568 79840 |
| 36 | 8 10472 80195 01450 11079 40910 08936 72090 82336 |
| n | ${}^{14}P_n^{n-22}$ |
| 22 | 1 65940 47616 45592 21155 43040 00000 |
| 23 | 59 40555 52677 69309 63605 32377 60000 |
| 24 | 1100 73182 54802 17526 04900 75545 60000 |
| 25 | 14054 35110 75559 94402 31163 74558 72000 |
| 26 | 1 38924 37385 37937 32717 34403 09936 64000 |
| 27 | 11 32589 18882 14404 99093 27847 87346 53440 |
| 28 | 79 23613 85058 85388 03744 14996 06069 10976 |
| 29 | 488 77085 48627 01185 94154 39280 00519 24736 |
| 30 | 2711 10768 89419 85036 89943 90725 32737 77920 |
| 31 | 13724 32229 61794 66586 18600 22500 29945 28000 |
| 32 | 64145 13506 45942 76810 42852 64214 88462 83520 |
| 33 | 2 79373 69364 85113 92868 73408 09432 59852 72576 |
| 34 | 11 42452 23416 37222 34939 75308 06510 78571 16096 |
| 35 | 44 14134 64534 41074 84531 14037 40124 45760 85440 |
| 36 | 161 99498 66021 02104 08950 43751 40127 47631 97600 |

| n | $-{}^{14}P_n^{n-23}$ |
|-----|--|
| 23 | 59 73857 14192 41319 61595 49440 00000 |
| 24 | 2257 74411 63267 05776 14992 47411 20000 |
| 25 | 44085 55348 45749 71766 01221 18144 00000 |
| 26 | 5 92205 24667 92587 53456 16607 25934 08000 |
| 27 | 61 49180 20083 10080 62149 92731 23399 68000 |
| 28 | 525 85336 94251 00685 24974 34494 04607 59040 |
| 29 | 3853 77118 66722 86982 82228 64328 59510 20032 |
| 30 | 24870 91794 57684 37978 30867 53368 81837 83680 |
| 31 | 1 44159 65625 92157 79601 88399 45283 22300 12160 |
| 32 | 7 61754 15958 72917 75980 25409 57796 69837 72160 |
| 33 | 37 12430 37255 86285 09259 96631 11681 39128 14080 |
| 34 | 168 42993 97403 86639 74090 46811 55013 52206 25152 |
| 35 | 716 80701 21389 73312 51198 61598 67531 23621 97760 |
| 36 | 2879 73298 83575 85979 93224 49431 33629 65903 84320 |

| n | ${}^{14}P_n^{n-24}$ |
|-----|---|
| 24 | 2210 32714 25119 28825 79033 29280 00000 |
| 25 | 88004 60356 29267 48319 48747 30905 60000 |
| 26 | 18 07341 18946 13506 47193 96373 38521 60000 |
| 27 | 254 95551 05663 17007 85440 60663 75884 80000 |
| 28 | 2776 11939 29070 30313 33587 62644 35271 68000 |
| 29 | 24861 96090 87612 59093 82510 11394 28790 47680 |
| 30 | 1 90574 12193 56695 99355 18341 77523 87729 09056 |
| 31 | 12 84894 51154 94808 70400 76513 25751 88593 90976 |
| 32 | 77 72079 04321 41909 52485 54488 63496 92099 38176 |
| 33 | 428 12770 38422 96126 47577 23329 22145 04634 57536 |
| 34 | 2172 96997 89448 51525 82795 64991 71170 43657 19296 |
| 35 | 10257 60708 64834 10233 39138 11946 11819 49557 26592 |
| 36 | 45381 15068 12931 02546 47870 30281 20850 07034 16832 |

| n | $-{}^{14}P_n^{n-25}$ |
|-----|---|
| 25 | 83992 43141 54532 95380 03265 12640 00000 |
| 26 | 35 16171 97036 95964 79840 04410 17958 40000 |
| 27 | 758 09819 54882 36223 67598 59345 58822 40000 |
| 28 | 11211 27412 87072 33545 70663 46559 70099 20000 |
| 29 | 1 27808 28863 08025 06705 81343 77622 51509 76000 |
| 30 | 11 96872 60770 75366 47740 29278 67576 89500 26240 |
| 31 | 95 82133 97287 69990 19368 36316 78627 49580 24704 |
| 32 | 674 02386 99260 36381 87402 79413 37462 36306 18624 |
| 33 | 4249 18022 98045 64220 01737 85890 58320 72877 74720 |
| 34 | 24371 18231 03924 82164 37867 82363 99137 90702 78912 |
| 35 | 1 28673 74129 97453 55404 12059 01966 15318 86248 05120 |
| 36 | 6 31296 48853 74324 56840 29826 87325 94474 14554 08128 |

| n | ${}^{14}P_n^{n-26}$ |
|-----|---|
| 26 | 32 75704 82520 26785 19821 27339 92960 00000 |
| 27 | 1439 22583 63998 65377 13423 03747 11296 00000 |
| 28 | 32521 25185 14175 50547 84965 36916 23014 40000 |
| 29 | 5 03394 76525 71213 59467 52830 92423 67180 80000 |
| 30 | 59 99151 17638 16291 47817 50613 30191 82100 48000 |
| 31 | 586 61545 91551 32416 48390 38875 03575 20112 02560 |
| 32 | 4898 57574 69497 81975 19966 73130 41812 51223 14240 |
| 33 | 35903 67376 35474 55541 40495 26145 65081 21307 70944 |
| 34 | 2 35615 14456 43619 73882 22174 63003 06155 46561 82784 |
| 35 | 14 05431 89546 32011 17772 39830 16474 64775 00295 70560 |
| 36 | 77 10445 21915 07235 32574 30722 12816 15399 26450 21440 |
| n | $-{}^{14}P_n^{n-27}$ |
| 27 | 1310 28193 00810 71407 92850 93597 18400 00000 |
| 28 | 60318 54122 24755 51870 43195 47228 81536 00000 |
| 29 | 14 26211 11898 20126 74880 11740 97710 48140 80000 |
| 30 | 230 72186 02503 82311 31983 83470 71928 36915 20000 |
| 31 | 2870 34837 78582 99136 35954 10456 00368 49336 32000 |
| 32 | 29268 04403 98392 57878 13521 59832 61252 54377 47200 |
| 33 | 2 54602 52839 95292 28737 31991 23831 84628 10642 02240 |
| 34 | 19 42075 19528 62596 39183 35268 52677 43445 12104 36608 |
| 35 | 132 51602 13437 56343 85529 99650 76824 38907 47072 10240 |
| 36 | 821 17765 01207 24891 56377 51328 84082 12882 61561 67680 |
| n | ${}^{14}P_n^{n-28}$ |
| 28 | 53721 55913 33239 27725 06888 37484 54400 00000 |
| 29 | 25 87100 29047 72971 06283 21098 21094 78912 00000 |
| 30 | 639 14178 40670 38421 26128 25960 22645 48966 40000 |
| 31 | 10790 90363 50838 60119 33416 98671 87493 73235 20000 |
| 32 | 1 39956 58063 87073 21255 51351 69192 04075 93369 60000 |
| 33 | 14 86286 60647 13131 83649 73345 21492 21692 94733 31200 |
| 34 | 134 52605 44124 91869 34303 76933 41588 99213 94908 36480 |
| 35 | 1066 72214 81498 96496 15104 69822 70105 84579 75917 93664 |
| 36 | 7560 00719 39939 57345 06074 52710 34500 91045 82450 95424 |
| n | $-{}^{14}P_n^{n-29}$ |
| 29 | 22 56305 48359 96049 64452 89311 74350 84800 00000 |
| 30 | 1135 01617 97412 33805 34630 96534 81426 78016 00000 |
| 31 | 29257 25467 86909 24340 84274 38784 77828 32537 60000 |
| 32 | 5 14847 91825 74646 29710 88038 79019 15046 28121 60000 |
| 33 | 69 52850 62763 80014 07464 50216 61853 02539 23123 20000 |
| 34 | 768 08321 13178 97210 39001 97441 71987 22107 75588 86400 |
| 35 | 7225 33382 31175 06938 85582 90245 68258 84377 31190 37440 |
| 36 | 59494 71908 24624 35250 25713 11558 03445 28785 51169 26976 |

| n | ${}^{14}\mathbf{P}_n^{n-30}$ |
|-----|--|
| 30 | 970 21135 79478 30134 71474 40404 97086 46400 00000 |
| 31 | 50910 92326 65621 17569 95236 87936 79864 79104 00000 |
| 32 | 13 67487 38380 76537 12907 87584 33251 82139 43296 00000 |
| 33 | 250 50491 62365 10266 79608 37368 68132 74268 36889 60000 |
| 34 | 3518 34471 12263 70928 30439 97549 75224 93612 23680 00000 |
| 35 | 40386 33885 44854 37027 02534 74752 30611 54784 51945 47200 |
| 36 | 3 94427 69618 72432 77030 96096 96790 75294 89272 80273 81760 |
| n | $-{}^{14}\mathbf{P}_n^{n-31}$ |
| 31 | 42689 29974 97045 25927 44873 77818 71804 41600 00000 |
| 32 | 23 33680 84674 49998 16575 30533 34974 65720 01280 00000 |
| 33 | 652 38100 50189 70706 10337 59412 64558 44133 92896 00000 |
| 34 | 12426 11206 81349 53245 51931 15740 66797 34747 26707 20000 |
| 35 | 1 81306 65820 70007 57804 13049 98128 77594 28134 63347 20000 |
| 36 | 21 60237 26207 67871 72128 37252 60991 77560 12576 08675 32800 |
| n | ${}^{14}\mathbf{P}_n^{n-32}$ |
| 32 | 19 21018 48873 67036 66735 19320 01842 31198 72000 00000 |
| 33 | 1092 70337 43900 66952 29199 23854 10676 54319 30880 00000 |
| 34 | 31754 61061 02816 90139 15066 16248 44923 28613 96992 00000 |
| 35 | 6 28207 98988 07594 45924 07761 71800 51195 96482 78937 60000 |
| 36 | 95 12234 24202 37965 78326 47210 80110 53315 75079 82950 40000 |
| n | $-{}^{14}\mathbf{P}_n^{n-33}$ |
| 33 | 883 66850 48188 83686 69818 88720 84746 35141 12000 00000 |
| 34 | 52240 72710 11520 30444 42183 09863 86543 88148 63360 00000 |
| 35 | 15 76462 03639 46731 57123 65358 89789 42861 61619 18976 00000 |
| 36 | 323 58653 54055 18860 07403 45683 08014 51463 89275 86918 40000 |
| n | ${}^{14}\mathbf{P}_n^{n-34}$ |
| 34 | 41532 41972 64875 33274 81487 69879 83078 51632 64000 00000 |
| 35 | 25 49087 32058 17849 94607 06276 43345 37184 82767 05280 00000 |
| 36 | 797 95727 10392 07696 93666 08862 43027 37404 02107 35104 00000 |
| n | $-{}^{14}\mathbf{P}_n^{n-35}$ |
| 35 | 19 93556 14687 14015 97191 11409 54231 87768 78366 72000 00000 |
| 36 | 1268 98834 85537 88663 32937 18954 78155 09825 33952 30720 00000 |
| n | ${}^{14}\mathbf{P}_n^{n-36}$ |
| 36 | 976 84251 19669 86782 62364 59067 57362 00670 39969 28000 00000 |

TABLEAUX ${}^{15}P_n^r$

| n | $-{}^{15}P_n^{n-1}$ | ${}^{15}P_n^{n-2}$ | $-{}^{15}P_n^{n-3}$ | ${}^{15}P_n^{n-4}$ | $-{}^{15}P_n^{n-5}$ |
|-----|---------------------|--------------------|---------------------|--------------------|---------------------|
| 1 | 15 | | | | |
| 2 | 31 | 240 | | | |
| 3 | 48 | 767 | 4080 | | |
| 4 | 66 | 1631 | 17886 | 73440 | |
| 5 | 85 | 2885 | 48875 | 4 13274 | 13 95360 |
| 6 | 105 | 4585 | 1 06575 | 13 90774 | 96 60840 |
| 7 | 126 | 6790 | 2 02860 | 36 28849 | 388 67094 |
| 8 | 148 | 9562 | 3 52240 | 80 91769 | 1187 01772 |
| 9 | 171 | 12966 | 5 72166 | 161 93289 | 3048 12459 |
| 10 | 195 | 17070 | 8 83350 | 299 25273 | 6934 51395 |
| 11 | 220 | 21945 | 13 10100 | 520 09023 | 14415 83220 |
| 12 | 246 | 27665 | 18 80670 | 860 71623 | 27938 17818 |
| 13 | 273 | 34307 | 26 27625 | 1368 49713 | 51177 51639 |
| 14 | 301 | 41951 | 35 88221 | 2104 23213 | 89495 43603 |
| 15 | 330 | 50680 | 48 04800 | 3144 81622 | 1 50518 16780 |
| 16 | 360 | 60580 | 63 25200 | 4586 25622 | 2 44862 65440 |
| 17 | 391 | 71740 | 82 03180 | 6547 06822 | 3 87036 59722 |
| 18 | 423 | 84252 | 104 98860 | 9172 08582 | 5 96542 78026 |
| 19 | 456 | 98211 | 132 79176 | 12636 70962 | 8 99221 61232 |
| 20 | 490 | 1 13715 | 166 18350 | 17151 62946 | 13 28869 73940 |
| 21 | 525 | 1 30865 | 205 98375 | 22968 05196 | 19 29176 77050 |
| 22 | 561 | 1 49765 | 253 09515 | 30383 46696 | 27 56026 64106 |
| 23 | 598 | 1 70522 | 308 50820 | 39747 98751 | 38 80214 91858 |
| 24 | 636 | 1 93246 | 373 30656 | 51471 29911 | 53 90638 44396 |
| 25 | 675 | 2 18050 | 448 67250 | 66030 25495 | 73 98019 10925 |
| 26 | 715 | 2 45050 | 535 89250 | 83977 15495 | 100 39229 30725 |
| 27 | 756 | 2 74365 | 636 36300 | 1 05948 74745 | 134 82292 66020 |
| 28 | 798 | 3 06117 | 751 59630 | 1 32675 99345 | 179 32140 05310 |
| 29 | 841 | 3 40431 | 883 22661 | 1 64994 63435 | 236 37207 77145 |
| 30 | 885 | 3 77435 | 1033 01625 | 2 03856 60519 | 308 96971 68285 |
| 31 | 930 | 4 17260 | 1202 86200 | 2 50342 33644 | 400 70518 91640 |
| 32 | 976 | 4 60040 | 1394 80160 | 3 05673 98844 | 515 86266 39264 |
| 33 | 1023 | 5 05912 | 1611 02040 | 3 71229 66364 | 659 52943 84932 |
| 34 | 1071 | 5 55016 | 1853 85816 | 4 48558 64284 | 837 71967 70404 |
| 35 | 1120 | 6 07495 | 2125 81600 | 5 39397 69268 | 1057 51341 20320 |

| n | ${}^{15}P_n^{n-6}$ | $-{}^{15}P_n^{n-7}$ | ${}^{15}P_n^{n-8}$ |
|-----|--------------------|---------------------|--------------------|
| 6 | 279 07200 | | |
| 7 | 2307 84840 | 5860 51200 | |
| 8 | 10858 60908 | 56633 17680 | 1 28931 26400 |
| 9 | 38160 01664 | 3 06381 18564 | 14 31494 33040 |
| 10 | 1 11315 00680 | 12 22221 58500 | 87 84642 78576 |

| n | ${}^{15}\mathbf{P}_n^{n-6}$ | $-{}^{15}\mathbf{P}_n^{n-7}$ | ${}^{15}\mathbf{P}_n^{n-8}$ |
|-----|-----------------------------|------------------------------|-----------------------------|
| 11 | 2 84677 85555 | 40 05096 75500 | 393 40182 41076 |
| 12 | 6 59489 49275 | 114 06720 99930 | 1434 72698 04076 |
| 13 | 14 13820 30361 | 292 12937 30355 | 4514 54165 02186 |
| 14 | 28 46790 76253 | 687 99905 80463 | 12694 16409 52126 |
| 15 | 54 42158 40740 | 1513 56837 91800 | 32646 13677 85553 |
| 16 | 99 57703 44140 | 3146 21590 14000 | 78053 18815 39553 |
| 17 | 175 48445 72780 | 6233 10396 82340 | 1 75585 88109 73553 |
| 18 | 299 33616 83884 | 11848 60660 11300 | 3 75045 20808 08433 |
| 19 | 496 19528 58742 | 21726 70015 79472 | 7 66049 22591 81333 |
| 20 | 801 93063 40630 | 38597 33987 76700 | 15 04757 03128 83381 |
| 21 | 1267 03504 28530 | 66664 91206 98750 | 28 55663 92700 67881 |
| 22 | 1961 53868 02330 | 1 12278 17361 25830 | 52 55600 76152 22881 |
| 23 | 2981 26853 74252 | 1 84855 10478 12040 | 94 09893 18518 78591 |
| 24 | 4455 75020 64856 | 2 98143 30920 33616 | 164 34387 16687 36111 |
| 25 | 6558 09919 96300 | 4 71917 56725 63000 | 280 61976 22580 47135 |
| 26 | 9517 30684 33300 | 7 34241 53524 15000 | 469 38678 91605 67135 |
| 27 | 13633 39085 93025 | 11 24451 11581 80300 | 770 42581 86095 82135 |
| 28 | 19295 95377 65865 | 16 97053 53190 87350 | 1242 69528 72531 54735 |
| 29 | 27006 77399 94195 | 25 26779 54430 19545 | 1972 42830 59739 10785 |
| 30 | 37407 14541 88575 | 37 15077 60027 64125 | 3084 21130 54667 70765 |
| 7 | | | |

| n | $-{}^{15}\mathbf{P}_n^{n-9}$ | ${}^{15}\mathbf{P}_n^{n-10}$ |
|-----|------------------------------|------------------------------|
| 9 | 29 65419 07200 | |
| 10 | 373 21283 00160 | 711 70057 72800 |
| 11 | 2569 37352 64560 | 10042 02132 76800 |
| 12 | 12797 82095 32536 | 76845 73301 55360 |
| 13 | 51535 44942 42588 | 4 22386 89875 33832 |
| 14 | 1 77942 61563 03796 | 18 65379 48263 26296 |
| 15 | 5 46073 37439 15450 | 70 25715 33591 36380 |
| 16 | 15 25457 47774 82040 | 234 07916 56765 99880 |
| 17 | 39 45106 31052 08183 | 706 97098 37785 43120 |
| 18 | 95 63854 50563 61879 | 1969 40500 31452 04976 |
| 19 | 219 40346 37230 40168 | 5125 47699 00051 46983 |
| 20 | 479 86020 05352 05490 | 12585 19475 65885 12695 |
| 21 | 1006 52516 14861 23825 | 29380 30177 53207 04845 |
| 22 | 2034 56417 52085 67541 | 65615 20758 88211 62545 |
| 23 | 3979 13645 69718 14138 | 1 40894 08207 15381 61562 |
| 24 | 7554 89586 73432 00596 | 2 92101 26743 64670 98806 |
| 25 | 13964 30686 24239 08925 | 5 86742 20626 28519 22050 |
| 26 | 25189 09735 27457 94325 | 11 45314 48075 98082 79050 |
| 27 | 44433 95570 83290 46860 | 21 78067 47222 23858 46375 |
| 28 | 76791 84008 99314 96530 | 40 44293 61197 22058 14495 |

| n | $-^{15}\mathbf{P}_n^{n-9}$ | $^{15}\mathbf{P}_n^{n-10}$ |
|-----|---------------------------------|----------------------------------|
| 29 | 1 30227 73744 18171 50135 | 73 46342 73583 92601 65285 |
| 30 | 2 17014 58290 46692 24675 | 130 76363 18327 92147 71225 |
| 31 | 3 55804 09165 06739 09100 | 228 42019 41398 93298 81600 |
| 32 | 5 74579 91802 78671 03040 | 392 09007 62992 03297 00200 |
| 33 | 9 14825 13012 66339 53370 | 662 14263 77723 00835 43080 |
| 34 | 14 37345 76457 87405 06490 | 1101 25870 02330 85133 04840 |
| 35 | 22 30333 70208 44690 02560 | 1805 55812 48766 67981 22850 |
| n | $-^{15}\mathbf{P}_n^{n-11}$ | $^{15}\mathbf{P}_n^{n-12}$ |
| 11 | 17792 51443 20000 | |
| 12 | 2 78885 06895 16800 | 4 62605 37523 20000 |
| 13 | 23 53719 86037 11520 | 79 92502 23692 73600 |
| 14 | 141 80553 02546 58816 | 738 96658 32731 96160 |
| 15 | 682 76558 02181 21400 | 4851 32696 06583 01824 |
| 16 | 2790 48018 09922 12800 | 25334 29436 72019 43824 |
| 17 | 10046 93431 69668 09080 | 1 11839 17997 79605 40624 |
| 18 | 32670 00579 78801 88920 | 4 33341 07812 08984 31184 |
| 19 | 97660 37090 16719 53128 | 15 11451 26945 09446 65544 |
| 20 | 2 71926 58856 18469 50550 | 48 31903 88010 77910 71896 |
| 21 | 7 12408 40504 24448 94875 | 143 49334 47977 24343 41146 |
| 22 | 17 70099 26895 39902 69295 | 399 96037 06130 04505 56646 |
| 23 | 41 97861 94974 03732 83460 | 1054 89710 01259 80905 20561 |
| 24 | 95 51837 06845 88234 22816 | 2650 08464 10273 22752 92041 |
| 25 | 209 43786 49848 10402 76250 | 6375 30109 77262 63887 81865 |
| 26 | 444 13474 74899 51171 58250 | 14752 81569 71186 79998 31865 |
| 27 | 913 71368 46014 72565 99300 | 32962 34034 42066 78033 20115 |
| 28 | 1828 50202 29348 74621 47050 | 71338 31509 74685 25804 90715 |
| 29 | 3567 54827 60829 23121 70335 | 1 49963 90208 36681 34528 13865 |
| 30 | 6799 93907 98521 97594 42875 | 3 06936 02623 13167 51883 08605 |
| 31 | 12684 30251 23278 44241 48000 | 6 12933 28482 46656 43632 37980 |
| 32 | 23191 63144 27629 35987 01600 | 11 96411 20039 17464 78740 45980 |
| 33 | 41619 86502 88254 90946 11000 | 22 86417 87820 16044 70130 21180 |
| 34 | 73402 71164 18959 31046 78840 | 42 84171 39958 52280 35543 49180 |
| 35 | 1 27364 38795 33171 02566 16000 | 78 80904 27003 81286 56836 12340 |
| n | $-^{15}\mathbf{P}_n^{n-13}$ | $^{15}\mathbf{P}_n^{n-14}$ |
| 13 | 124 90345 13126 40000 | |
| 14 | 2362 80407 76523 00800 | 3497 29663 67539 20000 |
| 15 | 23792 83499 25749 89440 | 72018 61488 86706 43200 |
| 16 | 1 69332 64381 23240 44160 | 7 85803 66466 59203 26400 |
| 17 | 9 54695 76919 55843 02704 | 60 35115 62284 79656 95360 |
| 18 | 45 33549 52849 03216 02672 | 365 85380 23710 66633 81888 |
| 19 | 188 33805 10647 99698 31744 | 1861 92514 67728 72762 70064 |
| 20 | 702 23148 26781 20884 60240 | 8265 41888 29760 62505 49360 |
| 21 | 2393 39784 07158 47759 76600 | 32843 52077 67102 93466 57760 |
| 22 | 7559 15825 34339 24122 57856 | 1 19005 84304 24808 12818 15360 |

| n | $-{}^{15}P_n^{n-13}$ | ${}^{15}P_n^{n-14}$ |
|-----|------------------------------------|---------------------------------------|
| 23 | 22357 69196 61150 90828 53758 | 3 98694 69841 95360 05353 56032 |
| 24 | 62443 78177 09023 65226 35076 | 12 48286 99313 19094 56837 98836 |
| 25 | 1 65797 08277 09679 52590 24675 | 36 83594 48219 71017 00665 66800 |
| 26 | 4 20809 12668 00185 08102 99275 | 103 15477 79303 58198 04275 53800 |
| 27 | 10 25674 57026 18843 88034 05740 | 275 68651 98691 65786 36498 24075 |
| 28 | 24 10092 86471 85648 65428 50570 | 706 46983 93791 57229 33928 65155 |
| 29 | 54 77640 41390 97114 75039 51315 | 1742 80977 12081 40121 47354 39665 |
| 30 | 120 76052 10559 11093 94277 61375 | 4152 97155 33284 13170 49092 97525 |
| 31 | 258 88173 28600 03632 29016 48600 | 9587 19500 08444 12397 91585 59400 |
| 32 | 540 83104 38793 49828 36105 95680 | 21495 75471 24045 79483 26343 95000 |
| 33 | 1103 14430 80634 70673 36907 56740 | 46914 81377 47340 21416 23323 91960 |
| 34 | 2200 62488 96002 40819 03157 73380 | 99865 74056 17806 13737 94887 15480 |
| 35 | 4299 86887 53970 02556 44788 83200 | 2 07696 36015 21924 13870 49616 11100 |

| n | $-{}^{15}P_n^{n-15}$ |
|-----|--|
| 15 | 1 01421 60246 58636 80000 |
| 16 | 22 61980 04912 59829 76000 |
| 17 | 266 21893 65376 95130 94400 |
| 18 | 2197 45593 58490 44153 45920 |
| 19 | 14270 63141 40942 43069 48224 |
| 20 | 77576 08640 43719 17001 30400 |
| 21 | 3 66865 74730 85341 04693 58000 |
| 22 | 15 49232 49527 01046 69490 37360 |
| 23 | 59 52448 68784 18947 43762 05680 |
| 24 | 211 02847 22778 42629 47197 34896 |
| 25 | 697 86039 95992 87317 63878 89500 |
| 26 | 2171 29819 24781 27997 90505 61500 |
| 27 | 6400 64408 76228 14117 65802 67300 |
| 28 | 17979 47792 21277 77144 98728 78450 |
| 29 | 48357 68101 54315 38006 57660 80115 |
| 30 | 1 25041 31094 85897 03351 41254 25375 |
| 31 | 3 11925 03084 83682 96023 50438 14000 |
| 32 | 7 52936 00088 72112 66327 63375 46400 |
| 33 | 17 63236 47237 02265 02041 01541 11400 |
| 34 | 40 15147 53355 74595 30020 21089 25480 |
| 35 | 89 08568 82108 47096 03179 70559 84000 |

| n | ${}^{15}P_n^{n-16}$ |
|-----|---------------------------------|
| 16 | 30 42648 07397 59104 00000 |
| 17 | 731 64029 59688 13826 56000 |
| 18 | 9250 64626 51750 58016 76800 |
| 19 | 81766 69214 81935 15080 92160 |
| 20 | 5 66968 16022 73977 79443 31776 |

| n | ${}^{15}P_n^{n-16}$ |
|-----|---|
| 21 | 32 82131 18438 04148 74488 95776 |
| 22 | 164 89298 08748 76426 43457 83776 |
| 23 | 738 10900 41248 15154 14601 66096 |
| 24 | 3000 03950 55047 35156 77559 81936 |
| 25 | 11230 14992 43405 97706 18256 42880 |
| 26 | 39144 56590 83120 90411 73412 22880 |
| 27 | 1 28167 79179 99153 38325 84142 44380 |
| 28 | 3 96994 84348 00735 31267 47854 70980 |
| 29 | 11 70112 39413 15679 48501 93192 44330 |
| 30 | 32 97850 35881 05556 20791 30267 69390 |
| 31 | 89 24709 35149 70922 71604 86709 11265 |
| 32 | 232 73260 77052 20338 88686 06863 55265 |
| 33 | 586 61252 81222 09634 06084 85510 36065 |
| 34 | 1432 96603 48599 18355 04053 59483 83265 |
| 35 | 3400 38832 63030 73524 75043 92857 31785 |
| n | $-{}^{15}P_n^{n-17}$ |
| 17 | 943 22090 29325 32224 00000 |
| 18 | 24355 71037 39345 74673 92000 |
| 19 | 3 29627 03712 47114 89227 26400 |
| 20 | 31 09694 57016 32910 01978 59840 |
| 21 | 229 53580 17812 22132 82494 72000 |
| 22 | 1411 10302 81581 71487 64097 19936 |
| 23 | 7512 14332 05285 99265 72037 19648 |
| 24 | 35560 28547 72715 75123 26900 31296 |
| 25 | 1 52561 82619 19562 46237 51733 26800 |
| 26 | 6 01767 82316 55801 54484 81990 42000 |
| 27 | 22 06695 02540 63758 61365 91891 80080 |
| 28 | 75 89742 28100 28200 71051 25874 44040 |
| 29 | 246 60520 55064 59819 15552 83626 96180 |
| 30 | 761 45465 89243 49716 49637 84094 46700 |
| 31 | 2245 48732 03890 99745 85246 46140 69250 |
| 32 | 6350 85362 20777 62190 79070 34759 87440 |
| 33 | 17289 28618 42231 18118 47315 57346 84895 |
| 34 | 45446 68753 40891 80553 39388 61844 16015 |
| 35 | 1 15662 02324 22251 79950 38014 76551 96000 |
| n | ${}^{15}P_n^{n-18}$ |
| 18 | 30183 06889 38410 31168 00000 |
| 19 | 8 33921 51123 36819 95407 36000 |
| 20 | 120 41240 77347 38726 29134 33600 |
| 21 | 1208 80550 72918 90576 98385 28000 |
| 22 | 9472 09437 14158 87358 68195 20000 |
| 23 | 61682 90641 32682 32401 39791 57632 |
| 24 | 3 47144 35259 33550 04498 77205 04256 |

| n | ${}^{15}P_n^{n-18}$ |
|-----|---|
| 25 | 17 33995 48620 69464 34306 26317 24800 |
| 26 | 78 36468 53388 51962 83806 95647 96800 |
| 27 | 325 08949 28367 39826 17684 57255 18800 |
| 28 | 1251 90140 35074 17687 95053 16710 82160 |
| 29 | 4515 49058 43386 30318 50257 29311 75880 |
| 30 | 15366 11962 66228 62361 34582 08898 07800 |
| 31 | 49631 57927 82185 99603 68284 93149 09300 |
| 32 | 1 52923 99601 61171 87912 89622 15620 94800 |
| 33 | 4 51414 11625 37720 10880 05928 49335 04480 |
| 34 | 12 81299 85309 64816 80566 77076 01983 79440 |
| 35 | 35 08187 54226 68515 27683 07118 32347 64175 |
| n | $-{}^{15}P_n^{n-19}$ |
| 19 | 9 96041 27349 67540 28544 00000 |
| 20 | 293 49372 65544 19418 72394 24000 |
| 21 | 4507 92799 72702 74838 92096 00000 |
| 22 | 48024 92625 97783 35610 33966 08000 |
| 23 | 3 98492 41800 21661 67881 57188 48000 |
| 24 | 27 42442 86170 63589 99134 69268 38016 |
| 25 | 162 81072 61284 72041 74586 80265 04000 |
| 26 | 856 40892 06112 50615 46837 32954 96000 |
| 27 | 4069 36101 95041 81091 82922 54521 64800 |
| 28 | 17723 11971 86472 53791 25674 59239 54400 |
| 29 | 71554 88006 94662 14373 12960 77804 87280 |
| 30 | 2 70236 46578 03659 48387 24281 67522 26000 |
| 31 | 9 61711 84897 83947 54647 80475 67935 77000 |
| 32 | 32 44764 49577 64503 36417 21582 52794 04800 |
| 33 | 104 32192 30853 39581 68323 33823 86978 60400 |
| 34 | 321 00069 88871 50146 90566 18391 55060 75440 |
| 35 | 948 83762 69044 26170 38337 95116 52266 68000 |
| n | ${}^{15}P_n^{n-20}$ |
| 20 | 338 65403 29888 96369 70496 00000 |
| 21 | 10610 93446 23935 76025 04294 40000 |
| 22 | 1 72896 34236 41234 70226 19750 40000 |
| 23 | 19 49818 61397 59218 87808 76495 36000 |
| 24 | 170 92530 49805 82362 67308 49657 60000 |
| 25 | 1240 47802 10460 62372 33561 51124 42624 |
| 26 | 7752 90706 61849 44042 17033 61726 02624 |
| 27 | 42865 67281 12462 19276 37364 12879 38624 |
| 28 | 2 13778 83563 04218 25133 20111 02788 60224 |
| 29 | 9 75872 98353 22537 38157 24118 50088 99424 |
| 30 | 41 24287 70658 87671 70574 94392 73503 39744 |
| 31 | 162 84928 66670 52348 48000 87068 12005 09744 |

| n | ${}^{15}P_n^{n-20}$ |
|-----|--|
| 32 | 605 23673 71971 13935 61799 88949 37050 51744 |
| 33 | 2130 27605 02120 45593 73409 03328 18370 77344 |
| 34 | 7137 72835 83083 45514 52929 26873 93343 76544 |
| 35 | 22866 76260 37787 02712 90672 28059 91320 73104 |
| n | $-{}^{15}P_n^{n-21}$ |
| 21 | 11852 89115 46113 72939 67360 00000 |
| 22 | 3 93846 53180 07801 09841 21958 40000 |
| 23 | 67 91011 19927 33485 08210 52723 20000 |
| 24 | 808 84118 53035 83802 44943 59546 88000 |
| 25 | 7474 92807 95462 95946 69974 96193 28000 |
| 26 | 57094 04892 13887 90840 12435 41170 32960 |
| 27 | 3 74963 23863 49714 96569 10813 71937 40544 |
| 28 | 21 75321 49670 73127 06176 80107 12871 62752 |
| 29 | 113 67811 42881 54511 86904 44881 32781 52384 |
| 30 | 543 06222 70423 46156 65823 06095 36697 27040 |
| 31 | 2398 99169 50072 91383 41695 53768 44350 15520 |
| 32 | 9890 05888 16916 99413 49735 58901 96584 63744 |
| 33 | 38336 18552 99560 54387 54330 39522 37958 95712 |
| 34 | 1 40589 43594 01342 42886 77963 99275 19756 08224 |
| 35 | 4 90338 12549 72431 73098 71498 16097 93600 58880 |
| n | ${}^{15}P_n^{n-22}$ |
| 22 | 4 26704 08156 60094 25828 24960 00000 |
| 23 | 149 99025 75819 48734 89953 37420 80000 |
| 24 | 2730 57451 33058 21168 01953 40902 40000 |
| 25 | 34275 38074 01455 89463 54753 63230 72000 |
| 26 | 3 33272 50392 19974 27331 53752 10961 92000 |
| 27 | 26 74128 50969 89378 51776 63603 98945 43360 |
| 28 | 184 22584 53236 77407 07679 17780 20316 46208 |
| 29 | 1119 61408 89078 21870 73281 62386 73796 44544 |
| 30 | 6121 45111 75866 20392 97077 37165 16183 49440 |
| 31 | 30559 25133 44921 97442 59115 11456 67560 66240 |
| 32 | 1 40912 86930 48276 01079 77109 84805 07667 80160 |
| 33 | 6 05745 63674 43374 73514 14682 53197 47145 76128 |
| 34 | 24 45882 54218 22280 84116 22541 50271 69175 70304 |
| 35 | 93 34764 90324 88059 85568 42777 14756 37223 73280 |
| n | $-{}^{15}P_n^{n-23}$ |
| 23 | 157 88051 01794 23487 55645 23520 00000 |
| 24 | 5857 51029 82934 75413 73873 45510 40000 |
| 25 | 1 12349 91631 72205 00966 50056 40704 00000 |
| 26 | 14 83365 14592 30440 79508 40201 69932 80000 |
| 27 | 151 47537 80672 49386 00101 44038 19371 52000 |

| n | $-{}^{15}P_n^{n-23}$ |
|-----|---|
| 28 | 1274 60935 21408 03283 74720 15405 75079 73120 |
| 29 | 9196 32070 10589 31788 04924 79954 48687 60064 |
| 30 | 58459 34061 30030 94100 29316 24970 95731 20000 |
| 31 | 3 33924 64090 44010 11783 97797 97403 23988 44800 |
| 32 | 17 39650 20229 10420 94143 17093 24410 31778 91840 |
| 33 | 83 62555 05961 79393 44892 41256 10248 92165 59360 |
| 34 | 374 38345 62334 61380 73571 46017 63727 55162 13504 |
| 35 | 1572 86590 19027 53141 95266 50551 27040 44771 58400 |
| n | ${}^{15}P_n^{n-24}$ |
| 24 | 5999 45938 68180 92527 14518 93760 00000 |
| 25 | 2 34442 36102 02636 33662 95583 68665 60000 |
| 26 | 47 28439 01370 90836 72322 97839 96825 60000 |
| 27 | 655 46409 99655 38909 32167 46109 64070 40000 |
| 28 | 7017 42997 87900 13121 36427 95713 77674 24000 |
| 29 | 61825 63212 08445 54322 49394 58161 06102 68160 |
| 30 | 4 66463 74296 74375 52996 66085 76158 48357 10976 |
| 31 | 30 97134 07055 25767 87509 85316 99851 56261 10976 |
| 32 | 184 57667 55215 50233 29572 84023 80400 59729 71776 |
| 33 | 1002 21227 05983 40017 54301 87406 27685 53338 88256 |
| 34 | 5016 23869 92149 50903 09137 67699 19633 77287 37536 |
| 35 | 23361 02805 46545 58559 14139 22563 42283 80231 99232 |
| n | $-{}^{15}P_n^{n-25}$ |
| 25 | 2 33978 91608 59056 08558 66238 56640 00000 |
| 26 | 96 11673 35689 64509 55076 89586 03264 00000 |
| 27 | 2034 77672 91896 88815 20319 01024 73113 60000 |
| 28 | 29564 26892 77423 23006 71352 37629 64070 40000 |
| 29 | 3 31313 75801 57128 87225 37754 53322 04062 72000 |
| 30 | 30 51641 57133 28732 77415 11116 12408 72580 71040 |
| 31 | 240 42510 00486 75631 62264 84975 39540 48650 64960 |
| 32 | 1665 10677 25028 60953 87718 09557 32712 36661 69856 |
| 33 | 10340 21052 20157 21918 77641 58676 11540 43958 43328 |
| 34 | 58446 39951 07360 42760 84131 54177 40446 04224 79616 |
| 35 | 3 04242 09577 22686 37012 31877 71438 02500 91306 18880 |
| n | ${}^{15}P_n^{n-26}$ |
| 26 | 93 59156 64343 62243 42346 49542 65600 00000 |
| 27 | 4034 37764 27619 07135 00499 22569 99424 00000 |
| 28 | 89495 00026 87288 37373 53897 65608 70195 20000 |
| 29 | 13 60758 56416 16487 26662 22049 83683 25222 40000 |
| 30 | 159 38563 91685 30157 64578 83249 29853 03982 08000 |

| n | ${}^{15}P_n^{n-26}$ |
|-----|---|
| 31 | 1532 62434 62683 23132 48258 83474 88245 70114 04800 |
| 32 | 12592 17894 85074 02187 12441 92343 07108 08043 92960 |
| 33 | 90852 19725 61418 67019 35192 41537 44589 31143 76192 |
| 34 | 5 87182 30231 28965 19120 61988 57990 98530 41148 55936 |
| 35 | 34 51055 87833 89626 14401 84434 12683 80386 48163 57120 |
| n | $-{}^{15}P_n^{n-27}$ |
| 27 | 3837 25422 38088 51980 36206 31248 89600 00000 |
| 28 | 1 73281 11521 98089 51650 57173 79188 65408 00000 |
| 29 | 40 21566 12677 51489 58712 74773 00362 83801 60000 |
| 30 | 638 94942 94988 76929 31850 44965 82425 93587 20000 |
| 31 | 7811 30319 20827 34023 37897 91184 25812 72780 80000 |
| 32 | 78312 02312 04255 98117 57804 31028 85114 98027 00800 |
| 33 | 6 70144 43370 02735 00912 42574 71153 19194 76091 69920 |
| 34 | 50 31049 90199 50831 17841 31810 64950 59481 70992 27136 |
| 35 | 338 02982 71532 70125 54751 69251 06508 87471 87271 68000 |
| n | ${}^{15}P_n^{n-28}$ |
| 28 | 1 61164 67739 99717 83175 20665 12453 63200 00000 |
| 29 | 76 12252 63185 17567 04149 79138 17565 75744 00000 |
| 30 | 1845 61162 20995 83108 87510 69150 33530 63014 40000 |
| 31 | 30598 33594 95490 44928 20780 92612 42697 74438 40000 |
| 32 | 3 89918 28278 53548 10003 64084 87088 30083 22355 20000 |
| 33 | 40 70583 36944 53579 21529 80887 45444 30487 29624 57600 |
| 34 | 362 37516 18705 84859 65326 24473 60797 51835 82026 13760 |
| 35 | 2827 58961 38481 75587 39550 83195 43376 66439 60647 43424 |
| n | $-{}^{15}P_n^{n-29}$ |
| 29 | 69 30081 12819 87866 76533 88600 35506 17600 00000 |
| 30 | 3418 69196 92967 60816 59124 70680 08399 50336 00000 |
| 31 | 86471 21496 37780 00715 97105 82445 17277 85984 00000 |
| 32 | 14 93994 66864 30340 67413 53028 42616 81374 10150 40000 |
| 33 | 198 20153 95955 47101 37584 65017 35766 95285 60844 80000 |
| 34 | 2152 08155 69293 18903 71015 47615 17093 58675 82824 44800 |
| 35 | 19908 46448 85879 77026 72001 46821 96171 98631 02105 19040 |
| n | ${}^{15}P_n^{n-30}$ |
| 30 | 3049 23569 64074 66137 67490 98415 62271 74400 00000 |
| 31 | 1 56890 37431 47617 02884 28102 79019 40249 39520 00000 |
| 32 | 41 34566 26264 85497 35818 94970 71497 35030 94784 00000 |
| 33 | 743 52315 68887 11509 04254 87306 74487 59613 71852 80000 |
| 34 | 10257 19705 74749 72375 08318 08139 91301 33322 92403 20000 |
| 35 | 1 15709 19334 70115 98656 88076 41283 28887 08438 50801 15200 |

| n | $-{}^{15}P_n^{n-31}$ |
|-----|--|
| 31 | 1 37215 60633 83359 76195 37094 28703 02228 48000 00000 |
| 32 | 73 54172 82481 73743 08872 29822 63595 53700 65920 00000 |
| 33 | 2016 78787 16929 92118 92362 93446 23971 00155 20768 00000 |
| 34 | 37705 89940 23511 44552 96596 84169 99375 61613 69702 40000 |
| 35 | 5 40308 55521 86247 90932 04182 83025 73140 94436 97459 20000 |
| n | ${}^{15}P_n^{n-32}$ |
| 32 | 63 11917 89156 34549 04987 06337 20339 02510 08000 00000 |
| 33 | 3519 58040 65798 00474 21985 08001 09329 26441 06240 00000 |
| 34 | 1 00325 39824 78434 22182 55405 93420 59937 33891 03104 00000 |
| 35 | 19 47914 46896 30495 05277 88651 17750 29342 52962 18521 60000 |
| n | $-{}^{15}P_n^{n-33}$ |
| 33 | 2966 60140 90348 23805 34391 97848 55934 17973 76000 00000 |
| 34 | 1 71906 46092 48652 46567 89675 81901 03738 87144 75520 00000 |
| 35 | 50 87850 97506 91929 33513 04566 59510 40668 47805 27616 00000 |
| n | ${}^{15}P_n^{n-34}$ |
| 34 | 1 42396 86763 36715 42656 50814 96730 84840 62740 48000 00000 |
| 35 | 85 65813 45295 20686 24483 44930 09881 68045 32833 48480 00000 |
| n | $-{}^{15}P_n^{n-35}$ |
| 35 | 69 77446 51404 99055 90168 89933 39811 57190 74283 52000 00000 |

TABLEAUX ${}^{16}P_n^r$

| n | $-{}^{16}P_n^{n-1}$ | ${}^{16}P_n^{n-2}$ | $-{}^{16}P_n^{n-3}$ | ${}^{16}P_n^{n-4}$ | $-{}^{16}P_n^{n-5}$ |
|-----|---------------------|--------------------|---------------------|--------------------|---------------------|
| 1 | 16 | | | | |
| 2 | 33 | 272 | | | |
| 3 | 51 | 866 | 4896 | | |
| 4 | 70 | 1835 | 21350 | 93024 | |
| 5 | 90 | 3235 | 58050 | 5 20024 | 18 60480 |
| 6 | 111 | 5125 | 1 25985 | 17 39074 | 127 80984 |
| 7 | 133 | 7567 | 2 38735 | 45 10744 | 510 40612 |
| 8 | 156 | 10626 | 4 12776 | 100 01649 | 1547 87724 |
| 9 | 180 | 14370 | 6 67800 | 199 08273 | 3948 27300 |
| 10 | 205 | 18870 | 10 27050 | 366 03273 | 8925 34125 |
| 11 | 231 | 24200 | 15 17670 | 633 06573 | 18442 19223 |
| 12 | 258 | 30437 | 21 71070 | 1042 83663 | 35534 96694 |
| 13 | 286 | 37661 | 30 23306 | 1650 73623 | 64734 39258 |
| 14 | 315 | 45955 | 41 15475 | 2527 49497 | 1 12605 74325 |
| 15 | 345 | 55405 | 54 94125 | 3762 13747 | 1 88430 59235 |
| 16 | 376 | 66100 | 72 11680 | 5465 31622 | 3 05056 85392 |
| 17 | 408 | 78132 | 93 26880 | 7773 05382 | 4 79946 97296 |
| 18 | 441 | 91596 | 119 05236 | 10850 92422 | 7 36457 74902 |
| 19 | 475 | 1 06590 | 150 19500 | 14898 70446 | 11 05389 17250 |
| 20 | 510 | 1 23215 | 187 50150 | 20155 52946 | 16 26843 82860 |
| 21 | 546 | 1 41575 | 231 85890 | 26905 58346 | 23 52442 88916 |
| 22 | 583 | 1 61777 | 284 24165 | 35484 36276 | 33 47949 47718 |
| 23 | 621 | 1 83931 | 345 71691 | 46285 54546 | 46 96355 26206 |
| 24 | 660 | 2 08150 | 417 45000 | 59768 50495 | 65 01491 53500 |
| 25 | 700 | 2 34550 | 500 71000 | 76466 50495 | 88 92231 73300 |
| 26 | 741 | 2 63250 | 596 87550 | 96995 61495 | 120 27358 43595 |
| 27 | 783 | 2 94372 | 707 44050 | 1 22064 38595 | 161 01174 26385 |
| 28 | 826 | 3 28041 | 834 02046 | 1 52484 32745 | 213 49942 85970 |
| 29 | 870 | 3 64385 | 978 35850 | 1 89181 22769 | 280 59253 26750 |
| 30 | 915 | 4 03535 | 1142 33175 | 2 33207 36019 | 365 72408 51355 |
| 31 | 961 | 4 45625 | 1327 95785 | 2 85754 62069 | 472 99947 08229 |
| 32 | 1008 | 4 90792 | 1537 40160 | 3 48168 63964 | 607 30414 25472 |
| 33 | 1056 | 5 39176 | 1772 98176 | 4 21963 91644 | 774 42508 95744 |
| 34 | 1105 | 5 90920 | 2037 17800 | 5 08840 02268 | 981 18740 86300 |

| n | ${}^{16}P_n^{n-6}$ | $-{}^{16}P_n^{n-7}$ | ${}^{16}P_n^{n-8}$ |
|-----|--------------------|---------------------|--------------------|
| 6 | 390 70080 | | |
| 7 | 3202 51728 | 8595 41760 | |
| 8 | 14941 85804 | 82253 31504 | 1 97694 60480 |
| 9 | 52090 91180 | 4 40857 90800 | 21 71774 16576 |
| 10 | 1 50797 73680 | 17 43130 70300 | 131 93221 86576 |

| n | ${}^{16}P_n^{n-6}$ | $-{}^{16}P_n^{n-7}$ | ${}^{16}P_n^{n-8}$ |
|-----|---------------------|-----------------------|-------------------------|
| 11 | 3 82856 60930 | 56 63871 85980 | 585 14620 14376 |
| 12 | 8 80795 79951 | 160 01000 31090 | 2114 39160 35836 |
| 13 | 18 75774 87383 | 406 63282 69718 | 6594 67169 06356 |
| 14 | 37 53072 25865 | 950 60754 03825 | 18387 02367 28178 |
| 15 | 71 31244 55615 | 2076 52921 79775 | 46905 24988 42928 |
| 16 | 129 72592 91900 | 4287 21503 03840 | 1 11277 65564 15953 |
| 17 | 227 34412 24444 | 8438 44476 44640 | 2 48468 53661 38833 |
| 18 | 385 72662 35212 | 15940 80080 51292 | 5 26937 21384 11953 |
| 19 | 636 12225 81880 | 29055 50600 48500 | 10 68924 44121 55881 |
| 20 | 1023 00846 85630 | 51319 78504 14300 | 20 85867 15138 53381 |
| 21 | 1608 67224 68590 | 88148 08990 96980 | 39 33379 41287 68181 |
| 22 | 2479 07611 58482 | 1 47668 96304 34810 | 71 94858 73953 56441 |
| 23 | 3751 29691 71766 | 2 41873 85544 57126 | 128 06279 33518 79221 |
| 24 | 5582 87546 93800 | 3 88174 43521 56000 | 222 39359 69757 07135 |
| 25 | 8183 47208 33800 | 6 11489 45399 08000 | 377 66337 10619 47135 |
| 26 | 11829 28709 39100 | 9 47011 80940 93800 | 628 37404 71981 75135 |
| 27 | 16880 77763 70090 | 14 43841 86735 36000 | 1026 11900 71501 14735 |
| 28 | 23804 28257 04645 | 21 69715 30574 49870 | 1646 97101 01121 62735 |
| 29 | 33198 25742 87325 | 32 17103 73884 54250 | 2601 64574 46399 57015 |
| 30 | 45824 92139 91075 | 47 11025 32313 83875 | 4049 34242 71203 98265 |
| 31 | 62648 22931 53405 | 68 18971 70749 73325 | 6216 41407 57640 56515 |
| 32 | 84879 20444 40168 | 97 63438 48531 83360 | 9421 33077 82878 02790 |
| 33 | 1 14029 80328 62824 | 138 37640 29863 11424 | 14107 78125 12406 04070 |
| 34 | 1 51976 63267 54280 | 194 25100 65965 89800 | 20888 22499 75698 63846 |

| n | $-{}^{16}P_n^{n-9}$ | ${}^{16}P_n^{n-10}$ |
|-----|---------------------------|----------------------------|
| 9 | 47 44670 51520 | |
| 10 | 590 39024 65920 | 1186 16762 88000 |
| 11 | 4020 62793 16896 | 16536 31404 01920 |
| 12 | 19819 57537 05048 | 1 25093 26819 58112 |
| 13 | 79022 54027 08456 | 6 80041 37856 99456 |
| 14 | 2 70268 01929 92780 | 29 71695 04642 44680 |
| 15 | 8 21878 72948 38120 | 110 79735 62540 28080 |
| 16 | 22 75941 47589 68888 | 365 57976 23940 09800 |
| 17 | 58 36826 45642 79384 | 1093 88103 46810 14216 |
| 18 | 140 36288 16468 60873 | 3020 03376 53022 33888 |
| 19 | 319 52153 43528 67275 | 7792 37174 12955 03570 |
| 20 | 693 64508 87783 23110 | 18975 62544 36458 58195 |
| 21 | 1444 55726 32770 44826 | 43946 84863 96654 90155 |
| 22 | 2899 90764 60414 67523 | 97395 46738 09161 48717 |
| 23 | 5633 95396 70650 12281 | 2 07591 95793 04919 14591 |
| 24 | 10628 40290 77883 01900 | 4 27316 16264 60273 93550 |
| 25 | 19524 14678 68165 87300 | 8 52452 27895 75594 69550 |
| 26 | 35008 34500 03564 19835 | 16 52942 29721 70395 48850 |
| 27 | 61400 05498 26797 75505 | 31 23292 78723 20091 81920 |
| 28 | 1 05523 17229 01347 09110 | 57 63495 15148 72395 28635 |

| n | $-{}^{16}\mathbf{P}_n^{n-9}$ | ${}^{16}\mathbf{P}_n^{n-10}$ |
|-----|---------------------------------|----------------------------------|
| 29 | 1 77989 89673 50698 69450 | 104 06514 73225 31667 29475 |
| 30 | 2 95063 95524 38679 35125 | 184 16060 08533 13108 54725 |
| 31 | 4 81333 70689 14062 55315 | 319 89002 02654 92358 70475 |
| 32 | 7 73505 16845 23169 11520 | 546 11686 25044 53298 70280 |
| 33 | 12 25729 04581 01314 45440 | 917 39934 33615 65416 23240 |
| 34 | 19 17010 32712 09210 44870 | 1518 00657 58085 29824 49800 |
| n | $-{}^{16}\mathbf{P}_n^{n-11}$ | ${}^{16}\mathbf{P}_n^{n-12}$ |
| 11 | 30840 35834 88000 | |
| 12 | 4 77320 83743 39840 | 8 32689 67541 76000 |
| 13 | 39 79932 34691 66976 | 141 97673 12356 91520 |
| 14 | 237 01132 32544 51200 | 1296 15711 18415 33824 |
| 15 | 1128 51983 71817 91600 | 8406 49680 94750 69824 |
| 16 | 4563 23788 10566 62080 | 43390 61176 21106 09424 |
| 17 | 16261 79027 76649 75680 | 1 89414 22395 59237 95984 |
| 18 | 52359 86442 21384 44808 | 7 26053 30311 88679 93424 |
| 19 | 1 55041 01244 24143 97000 | 25 06288 69347 15751 16896 |
| 20 | 4 27774 02338 77570 21950 | 79 32724 12895 60790 11896 |
| 21 | 11 10896 53935 90079 16970 | 233 32588 97091 53318 02096 |
| 22 | 27 36929 93902 66310 52705 | 644 35760 92719 86247 29986 |
| 23 | 64 37957 69950 14447 03951 | 1684 39098 61021 06047 32776 |
| 24 | 145 34044 05879 06293 73000 | 4195 19448 89076 69481 86865 |
| 25 | 316 26690 56463 17251 15000 | 10008 81211 24239 21231 06865 |
| 26 | 665 77234 00189 16633 66550 | 22975 75524 39229 28528 21865 |
| 27 | 1360 00810 48500 73244 18250 | 50938 19352 47174 27142 16965 |
| 28 | 2703 02400 33598 37192 40810 | 1 09418 54203 32705 76642 01715 |
| 29 | 5238 96187 00142 22585 00750 | 2 28351 59818 11034 13107 97355 |
| 30 | 9921 89349 95281 47613 27125 | 4 64104 88233 17434 29433 31105 |
| 31 | 18393 28113 87805 50606 44475 | 9 20511 98331 00382 19643 78855 |
| 32 | 33428 11209 12586 91465 56800 | 17 84996 19683 27240 98146 69180 |
| 33 | 59641 72149 14724 49803 30240 | 33 89545 57721 31412 88493 95580 |
| 34 | 1 04594 28931 61891 55198 69000 | 63 11989 93029 52913 28855 77340 |
| n | $-{}^{16}\mathbf{P}_n^{n-13}$ | ${}^{16}\mathbf{P}_n^{n-14}$ |
| 13 | 233 15310 91169 28000 | |
| 14 | 4350 47831 49519 82080 | 6761 44016 43909 12000 |
| 15 | 43235 19167 01979 96800 | 1 37275 78961 29503 74400 |
| 16 | 3 03836 59276 39251 61344 | 14 77566 73138 90882 75200 |
| 17 | 16 92336 16915 14646 62912 | 112 00337 69983 46934 38208 |
| 18 | 79 43005 55969 69499 30384 | 670 47431 28183 30273 14304 |
| 19 | 326 28817 86573 84617 06800 | 3371 09620 31152 93249 47360 |
| 20 | 1203 48922 13724 35907 98160 | 14791 18245 61237 54846 85360 |
| 21 | 4059 26990 77966 24352 26416 | 58116 79442 55314 47534 19120 |
| 22 | 12692 32782 70352 97119 03968 | 2 08309 78101 40065 48567 96512 |

| n | $-{}^{16}P_n^{n-13}$ | ${}^{16}P_n^{n-14}$ |
|-----|--|---------------------------------------|
| 23 | 37177 91697 93707 74516 43436 | 6 90618 23844 13478 39091 47296 |
| 24 | 1 02869 16543 73529 10362 21700 | 21 40557 00063 68080 45232 41300 |
| 25 | 2 70676 94499 36596 89636 96300 | 62 55323 61813 09244 59721 09300 |
| 26 | 6 81038 24160 30404 60110 77765 | 173 53078 36287 09717 34836 57600 |
| 27 | 16 46019 96184 78034 58295 96095 | 459 56684 51019 86710 59489 23730 |
| 28 | 38 36362 28341 06528 25409 25590 | 1167 35542 86965 42197 66215 55815 |
| 29 | 86 50778 13287 45581 97658 01050 | 2855 35483 33972 29440 84222 81775 |
| 30 | 189 26600 05102 42117 87516 82025 | 6748 20499 31907 80629 78833 29025 |
| 31 | 402 75424 63828 44095 41449 12855 | 15454 44101 66619 18052 04607 02175 |
| 32 | 835 39487 85385 62058 64707 19040 | 34383 89059 66555 90536 52716 06360 |
| 33 | 1692 19305 30182 69625 75748 39680 | 74482 84476 65065 69351 58661 20280 |
| 34 | 3353 07038 58527 08857 11952 23100 | 1 57400 30436 44017 81013 70332 64600 |
| n | $-{}^{16}P_n^{n-15}$ | |
| 15 | 2 02843 20493 17273 60000 | |
| 16 | 44 58392 68293 31889 66400 | |
| 17 | 517 40528 08738 40137 72800 | |
| 18 | 4213 51672 18192 88972 33664 | |
| 19 | 27009 64335 76425 18259 20000 | |
| 20 | 1 44998 01046 66777 81990 77600 | |
| 21 | 6 77480 57888 71329 56477 50560 | |
| 22 | 28 27801 97263 17965 15242 58000 | |
| 23 | 107 43573 65116 40453 60825 25456 | |
| 24 | 376 77684 95037 66110 85392 70000 | |
| 25 | 1232 99964 97584 89328 94689 22000 | |
| 26 | 3797 68233 31921 68357 43254 03300 | |
| 27 | 11085 97524 55979 76486 06390 22500 | |
| 28 | 30847 34958 49834 05041 64427 42890 | |
| 29 | 82210 98844 76312 61738 77911 98750 | |
| 30 | 2 10701 95595 05065 86576 67938 78625 | |
| 31 | 5 21119 38563 72824 95546 94270 13775 | |
| 32 | 12 47478 11342 03926 43993 10800 16000 | |
| 33 | 28 97904 86205 98609 89746 41171 21280 | |
| 34 | 65 47564 25561 86828 87974 15570 15000 | |
| n | ${}^{16}P_n^{n-16}$ | |
| 16 | 62 88139 35288 35481 60000 | |
| 17 | 1489 56705 20674 55950 84800 | |
| 18 | 18563 94132 09041 80495 87200 | |
| 19 | 1 61823 50986 27600 05555 31776 | |
| 20 | 11 07161 02738 02481 44627 31776 | |
| 21 | 63 27089 40418 06482 96295 25376 | |
| 22 | 313 93870 82300 45676 85962 96096 | |
| 23 | 1388 50345 78301 28352 65181 00096 | |
| 24 | 5578 49718 17841 06043 37365 92880 | |
| 25 | 20649 57116 19347 50477 53073 92880 | |

| n | ${}^{16}P_n^{n-16}$ |
|-----|---|
| 26 | 71202 55680 20328 12964 35331 94880 |
| 27 | 2 30705 21479 61038 83976 52001 33480 |
| 28 | 7 07402 15035 68168 72877 26781 00980 |
| 29 | 20 64685 53209 60866 94709 61587 88140 |
| 30 | 57 64180 01223 94934 72954 67627 31890 |
| 31 | 154 56469 98596 27964 55481 92811 48640 |
| 32 | 399 49081 11091 50737 46188 23507 96065 |
| 33 | 998 28030 55509 39206 57857 41915 64065 |
| 34 | 2418 25368 79602 71091 55431 59305 06785 |
| n | $-{}^{16}P_n^{n-17}$ |
| 17 | 2012 20459 29227 35411 20000 |
| 18 | 51167 91731 11487 81789 18400 |
| 19 | 6 82341 92222 18909 18648 83200 |
| 20 | 63 46164 76741 84911 13084 95360 |
| 21 | 462 03961 75310 74243 19668 39296 |
| 22 | 2803 06269 70779 14112 82592 78208 |
| 23 | 14732 73360 98196 49833 49185 29856 |
| 24 | 68884 36846 51946 55586 91244 33600 |
| 25 | 2 92024 25573 65588 97321 85881 48800 |
| 26 | 11 38656 67337 58836 66900 61912 56880 |
| 27 | 41 29164 05906 12618 11403 45854 41840 |
| 28 | 140 49488 29529 37288 22393 81911 81480 |
| 29 | 451 75182 91099 36712 28993 60276 24600 |
| 30 | 1380 86031 85531 75724 90926 31730 90900 |
| 31 | 4032 38312 41833 42722 46841 42587 57840 |
| 32 | 11296 92401 75858 57056 54492 04727 43920 |
| 33 | 30472 48295 08250 92454 71527 33109 55040 |
| 34 | 79388 21792 28211 13577 06540 86975 94225 |
| n | ${}^{16}P_n^{n-18}$ |
| 18 | 66402 75156 64502 68569 60000 |
| 19 | 18 06111 94014 55088 49401 85600 |
| 20 | 256 88079 21791 16910 02110 97600 |
| 21 | 2541 50010 84497 73710 73169 30560 |
| 22 | 19636 96595 70995 20709 00899 84512 |
| 23 | 1 26153 34844 60602 56996 39425 56416 |
| 24 | 7 00729 95922 90266 00502 57652 20800 |
| 25 | 34 56104 69783 68128 23979 07425 64800 |
| 26 | 154 29099 18303 57276 14175 28566 65600 |
| 27 | 632 52679 46482 28416 24001 28894 54560 |
| 28 | 2408 06734 00445 70995 14350 00634 53680 |
| 29 | 8589 84218 99738 11676 99678 04754 38800 |
| 30 | 28918 67449 99209 63730 04390 17185 45800 |
| 31 | 92438 24915 33670 47075 87000 76807 27200 |
| 32 | 2 81960 25598 99841 55031 88547 78423 45680 |

| n | ${}^{16}\mathbf{P}_n^{n-18}$ |
|-----|---|
| 33 | 8 24212 60883 41052 93746 04166 05340 53840 |
| 34 | 23 17364 27342 45348 24027 09005 27708 50800 |
| n | $-{}^{16}\mathbf{P}_n^{n-19}$ |
| 19 | 22 57693 55325 93091 31366 40000 |
| 20 | 654 71611 45835 21188 60431 36000 |
| 21 | 9902 42463 30317 29949 36426 49600 |
| 22 | 1 03937 92864 56733 57246 43690 80320 |
| 23 | 8 50142 63501 54551 44188 77884 91776 |
| 24 | 57 70123 22441 18051 67048 15481 92000 |
| 25 | 337 99321 59357 28691 87151 21570 24000 |
| 26 | 1754 99614 20488 21949 70293 26021 80800 |
| 27 | 8235 21779 89238 27547 65655 25821 36000 |
| 28 | 35433 86996 87976 49445 97710 68286 82080 |
| 29 | 1 41388 83293 07587 73232 29110 96206 44000 |
| 30 | 5 27931 73147 95802 98697 14623 10153 90000 |
| 31 | 18 58190 75847 59446 30279 16571 00684 96800 |
| 32 | 62 02788 46868 41958 42845 05607 10626 75200 |
| 33 | 197 36880 75620 34352 84375 55900 74952 67840 |
| 34 | 601 23298 58907 45946 77931 60037 36639 06000 |
| n | ${}^{16}\mathbf{P}_n^{n-20}$ |
| 20 | 790 19274 36407 58195 97824 00000 |
| 21 | 24359 97286 86475 20985 73352 96000 |
| 22 | 3 90749 68429 08215 29112 21133 31200 |
| 23 | 43 40390 97282 64091 04476 81383 83360 |
| 24 | 374 95953 73842 91597 27839 18895 62624 |
| 25 | 2683 00882 71490 13664 09765 38172 42624 |
| 26 | 16540 73068 05138 90030 82965 22552 26624 |
| 27 | 90250 56864 65644 11918 35282 15468 20224 |
| 28 | 4 44364 93400 02889 96467 58458 25786 68224 |
| 29 | 20 03455 21262 73855 72090 57728 30406 79744 |
| 30 | 83 65952 69451 15303 67543 67721 59696 59744 |
| 31 | 326 50812 34257 22241 07612 40384 26775 99744 |
| 32 | 1199 85777 99094 16217 30733 19221 58969 49344 |
| 33 | 4177 19624 48778 30221 87295 88362 69053 58944 |
| 34 | 13848 26781 54175 13511 21698 27499 41734 83104 |
| n | $-{}^{16}\mathbf{P}_n^{n-21}$ |
| 21 | 28446 93877 10672 95055 21664 00000 |
| 22 | 9 29765 93491 10255 71527 35723 52000 |
| 23 | 157 78253 93796 22436 77791 38789 37600 |
| 24 | 1850 53501 87819 21987 52387 12758 88640 |
| 25 | 16848 91651 41535 85878 65954 68583 93600 |

| n | $-{}^{16}P_n^{n-21}$ |
|-----|---|
| 26 | 1 26852 27842 72631 46106 66335 33653 41184 |
| 27 | 8 21562 96700 88465 27401 50874 80848 59392 |
| 28 | 47 02337 41881 11162 39890 68007 45981 29024 |
| 29 | 242 54394 51482 38320 84464 40170 80595 30880 |
| 30 | 1144 09879 08305 61828 28540 37944 48901 19360 |
| 31 | 4992 43703 03058 65797 35549 53137 94944 67584 |
| 32 | 20338 31883 13148 11127 93332 51198 53416 55552 |
| 33 | 77931 49226 69667 89558 68525 73834 83952 24064 |
| 34 | 2 82614 10826 59804 70430 46024 03606 67578 12320 |
| n | ${}^{16}P_n^{n-22}$ |
| 22 | 10 52536 73452 94899 17043 01568 00000 |
| 23 | 363 83642 26114 84616 35082 59061 76000 |
| 24 | 6517 35545 84167 59650 68946 71847 42400 |
| 25 | 80538 75620 96936 39151 64431 82202 88000 |
| 26 | 7 71344 33328 99906 60176 68573 94144 25600 |
| 27 | 60 99140 02723 50427 96656 54658 07587 55328 |
| 28 | 414 26347 60861 54434 74921 42274 84077 09184 |
| 29 | 2483 29194 03630 45580 30111 34603 07253 86240 |
| 30 | 13397 76947 20337 70018 31009 42289 34042 75840 |
| 31 | 66026 31385 02396 14119 43866 87735 83497 66400 |
| 32 | 3 00670 85427 46153 06595 14694 85219 45897 42848 |
| 33 | 12 76910 15817 77262 40735 94655 42749 09892 09344 |
| 34 | 50 95553 27925 90989 29111 52416 60656 23551 88480 |
| n | $-{}^{16}P_n^{n-23}$ |
| 23 | 399 96395 91212 06168 47634 59584 00000 |
| 24 | 14589 58444 09691 06206 15855 62992 64000 |
| 25 | 2 75283 80277 76394 92233 73724 36889 60000 |
| 26 | 35 77372 80737 50786 97451 15429 07207 68000 |
| 27 | 359 73834 80555 46864 24871 95534 61266 43200 |
| 28 | 2982 36855 97666 15266 81103 45831 87531 22304 |
| 29 | 21209 96150 75574 10395 77646 05924 86923 26400 |
| 30 | 1 32958 09882 38944 61509 32656 63063 13347 07200 |
| 31 | 7 49255 49453 74478 82351 59090 08372 79313 95840 |
| 32 | 38 52492 24549 87097 45965 20833 31957 03704 16640 |
| 33 | 182 84693 25068 02444 62532 26186 22491 06780 73344 |
| 34 | 808 53291 00138 88302 58593 64302 17196 91493 31200 |
| n | ${}^{16}P_n^{n-24}$ |
| 24 | 15598 59440 57270 40570 57749 23776 00000 |
| 25 | 5 99181 97204 44912 88816 91974 43481 60000 |
| 26 | 118 85817 88592 77104 70400 14673 55955 20000 |
| 27 | 1621 35475 79568 10157 63348 62694 58677 76000 |
| 28 | 17090 10372 43453 25320 32842 70682 93134 33600 |

| n | ${}^{16}P_n^{n-24}$ |
|-----|---|
| 29 | 1 48314 32035 40763 97060 01394 87285 44508 14976 |
| 30 | 11 02762 58819 41598 64869 95467 53904 56055 02976 |
| 31 | 72 18835 13409 33050 94298 97672 54808 70020 34176 |
| 32 | 424 33843 37735 33555 64823 74906 48329 97776 38656 |
| 33 | 2273 53471 16129 14233 71153 74905 82267 75576 37376 |
| 34 | 11233 03440 44462 34020 35234 58030 84330 07832 31232 |
| n | $-{}^{16}P_n^{n-25}$ |
| 25 | 6 23943 77622 90816 22823 09969 51040 00000 |
| 26 | 251 90404 63005 32244 64316 80921 33785 60000 |
| 27 | 5243 94755 83901 70642 21122 97210 83904 00000 |
| 28 | 74962 20215 05330 07420 45113 93078 07047 68000 |
| 29 | 8 26926 76602 17273 21514 90193 03127 04958 46400 |
| 30 | 75 01071 18195 51651 89215 52962 30972 07825 20320 |
| 31 | 582 28150 23888 65189 73233 44469 10581 86356 57216 |
| 32 | 3975 13401 54127 18584 05285 35078 86590 77312 63488 |
| 33 | 24343 37883 65423 29255 16825 30590 06429 70579 18976 |
| 34 | 1 35746 57970 55751 26707 03359 00975 37549 73821 50400 |
| n | ${}^{16}P_n^{n-26}$ |
| 26 | 255 81694 82539 23465 35747 08749 92640 00000 |
| 27 | 10835 78689 28762 77740 37053 07446 11635 20000 |
| 28 | 2 36325 53190 36536 15355 45340 87512 19507 20000 |
| 29 | 35 34662 42652 71059 41855 30353 82947 29605 12000 |
| 30 | 407 46366 89750 48354 10025 89040 23664 52736 00000 |
| 31 | 3857 95641 26744 24341 13940 25306 48380 12695 34720 |
| 32 | 31225 18702 49510 88258 55912 15354 45727 71454 23872 |
| 33 | 2 22031 61976 47615 80293 09608 99140 02084 82460 71296 |
| 34 | 14 14857 18275 53357 13796 34048 98053 17140 40841 01120 |
| n | $-{}^{16}P_n^{n-27}$ |
| 27 | 10744 31182 66647 85545 01377 67496 90880 00000 |
| 28 | 4 76683 14822 03447 28380 94659 87679 91193 60000 |
| 29 | 108 75006 55198 11038 04020 89658 38216 49510 40000 |
| 30 | 1699 34815 74570 08711 87509 55580 70844 81740 80000 |
| 31 | 20442 67693 03092 33000 48700 51431 59413 07596 80000 |
| 32 | 2 01766 62832 60071 77034 03892 40836 33279 04278 11840 |
| 33 | 17 00575 60552 36594 13444 87675 77850 28209 34081 57696 |
| 34 | 125 80124 97399 69768 47806 58516 35711 30365 74656 51200 |
| n | ${}^{16}P_n^{n-28}$ |
| 28 | 4 62005 40854 65857 78435 59240 02367 07840 00000 |
| 29 | 214 36063 93024 17538 27197 24274 60283 20358 40000 |

| n | ${}^{16}P_n^{n-28}$ |
|-----|---|
| 30 | 5108 11358 76939 14250 08137 58901 80025 48326 40000 |
| 31 | 83278 12883 07163 14996 33577 15614 38887 08403 20000 |
| 32 | 10 44083 94455 52502 66019 22501 32899 31301 65452 80000 |
| 33 | 107 28882 10420 35947 63653 09336 93043 28695 70802 48320 |
| 34 | 940 57086 77486 29060 22452 05450 07707 10953 40799 75424 |
| n | $-{}^{16}P_n^{n-29}$ |
| 29 | 203 28237 97604 97742 51166 06561 04151 44960 00000 |
| 30 | 9849 51114 83692 86964 75041 98918 16895 61088 00000 |
| 31 | 2 44822 73618 22893 42468 49371 08400 98067 84102 40000 |
| 32 | 41 58894 79122 59561 47296 27497 42277 25760 79052 80000 |
| 33 | 542 74924 12987 79689 16219 07561 21444 28240 20787 20000 |
| 34 | 5799 90147 23585 41123 35220 65070 80565 34329 90108 87680 |
| n | ${}^{16}P_n^{n-30}$ |
| 30 | 9147 70708 92223 98413 02472 95246 86815 23200 00000 |
| 31 | 4 62225 21991 42095 98791 54404 45482 64013 33248 00000 |
| 32 | 119 68893 82048 18086 94810 74845 40328 73201 86060 80000 |
| 33 | 2115 95843 79932 77037 65031 94721 69637 09719 80595 20000 |
| 34 | 28710 67126 16334 81806 59766 65221 20406 93489 99168 00000 |
| n | $-{}^{16}P_n^{n-31}$ |
| 31 | 4 20794 52610 42303 26999 13755 81355 93500 67200 00000 |
| 32 | 221 45379 86207 20814 70201 70765 19040 02127 29856 00000 |
| 33 | 5966 52283 24519 88988 21117 63344 54819 15816 60774 40000 |
| 34 | 1 09648 48629 41225 63833 07683 04707 67036 92087 09939 20000 |
| n | ${}^{16}P_n^{n-32}$ |
| 32 | 197 77342 72689 88253 68959 46523 23728 94531 58400 00000 |
| 33 | 10827 55576 10635 87359 38641 43252 37649 96641 91488 00000 |
| 34 | 3 03187 17455 12110 47781 73405 47135 23788 71655 69433 60000 |
| n | $-{}^{16}P_n^{n-33}$ |
| 33 | 9493 12450 89114 36177 10054 33115 38989 37516 03200 00000 |
| 34 | 5 40043 35680 10272 16787 03484 52481 83837 72969 86112 00000 |
| n | ${}^{16}P_n^{n-34}$ |
| 34 | 4 65163 10093 66603 72677 92662 22654 10479 38285 56800 00000 |

TABLEAUX ${}^{17}P_n^r$

| n | $-{}^{17}P_n^{n-1}$ | ${}^{17}P_n^{n-2}$ | $-{}^{17}P_n^{n-3}$ | ${}^{17}P_n^{n-4}$ | $-{}^{17}P_n^{n-5}$ |
|-----|---------------------|--------------------|---------------------|--------------------|---------------------|
| 1 | 17 | | | | |
| 2 | 35 | 306 | | | |
| 3 | 54 | 971 | 5814 | | |
| 4 | 74 | 2051 | 25234 | 1 16280 | |
| 5 | 95 | 3605 | 68305 | 6 46194 | 24 41880 |
| 6 | 117 | 5695 | 1 47615 | 21 48904 | 166 58148 |
| 7 | 140 | 8386 | 2 78600 | 55 44049 | 660 82940 |
| 8 | 164 | 11746 | 4 79864 | 122 30449 | 1991 40116 |
| 9 | 189 | 15846 | 7 73514 | 242 27049 | 5049 01341 |
| 10 | 215 | 20760 | 11 85510 | 443 38413 | 11348 04615 |
| 11 | 242 | 26565 | 17 46030 | 763 47183 | 23319 41766 |
| 12 | 270 | 33341 | 24 89850 | 1252 36023 | 44696 62890 |
| 13 | 299 | 41171 | 34 56739 | 1974 41673 | 81015 07557 |
| 14 | 329 | 50141 | 46 91869 | 3011 43843 | 1 40247 57747 |
| 15 | 360 | 60340 | 62 46240 | 4465 91782 | 2 33602 16880 |
| 16 | 392 | 71860 | 81 77120 | 6464 71462 | 3 76511 53904 |
| 17 | 425 | 84796 | 105 48500 | 9163 16422 | 5 89847 12150 |
| 18 | 459 | 99246 | 134 31564 | 12749 65422 | 9 01394 70498 |
| 19 | 494 | 1 15311 | 169 05174 | 17450 70162 | 13 47632 60268 |
| 20 | 530 | 1 33095 | 210 56370 | 23536 56426 | 19 75857 86100 |
| 21 | 567 | 1 52705 | 259 80885 | 31327 42116 | 28 46710 73862 |
| 22 | 605 | 1 74251 | 317 83675 | 41200 15746 | 40 37152 74270 |
| 23 | 644 | 1 97846 | 385 79464 | 53595 79071 | 56 43958 88364 |
| 24 | 684 | 2 23606 | 464 93304 | 69027 57631 | 77 87790 51204 |
| 25 | 725 | 2 51650 | 556 61150 | 88089 83095 | 106 17921 14075 |
| 26 | 767 | 2 82100 | 662 30450 | 1 11467 51395 | 143 17694 04065 |
| 27 | 810 | 3 15081 | 783 60750 | 1 39946 60745 | 191 10797 14050 |
| 28 | 854 | 3 50721 | 922 24314 | 1 74425 33745 | 252 68447 86830 |
| 29 | 899 | 3 89151 | 1080 06759 | 2 15926 27875 | 331 17588 05355 |
| 30 | 945 | 4 30505 | 1259 07705 | 2 65609 38789 | 430 50196 87605 |
| 31 | 992 | 4 74920 | 1461 41440 | 3 24786 00924 | 555 33838 10688 |
| 32 | 1040 | 5 22536 | 1689 37600 | 3 94933 90044 | 711 23566 55040 |
| 33 | 1089 | 5 73496 | 1945 41864 | 4 77713 32444 | 904 75327 67196 |

| n | ${}^{17}P_n^{n-6}$ | $-{}^{17}P_n^{n-7}$ | ${}^{17}P_n^{n-8}$ |
|-----|--------------------|---------------------|--------------------|
| 6 | 537 21360 | | |
| 7 | 4368 58764 | 12355 91280 | |
| 8 | 20228 49324 | 1 17202 01616 | 2 96541 90720 |
| 9 | 70013 52224 | 6 22914 34716 | 32 26592 31120 |
| 10 | 2 01287 87090 | 24 43265 92540 | 194 22365 33736 |
| 11 | 5 07685 11695 | 78 78038 43970 | 853 90545 32316 |

| n | $^{17}P_n^{n-6}$ | $-^{17}P_n^{n-7}$ | $^{17}P_n^{n-8}$ |
|-----|---------------------|-----------------------|-------------------------|
| 12 | 11 60628 81143 | 220 93221 71430 | 3059 75621 63476 |
| 13 | 24 56831 04953 | 557 51457 24577 | 9466 79051 34946 |
| 14 | 48 87283 31663 | 1294 56388 73167 | 26192 22768 72256 |
| 15 | 92 34958 21820 | 2809 62171 54720 | 66323 70819 40433 |
| 16 | 167 10227 61980 | 5764 80834 52960 | 1 56231 60308 91473 |
| 17 | 291 35108 40812 | 11279 18345 98300 | 3 46470 27848 39153 |
| 18 | 491 89910 53912 | 21185 12031 85908 | 7 29962 51611 81353 |
| 19 | 807 38725 21342 | 38401 58900 72828 | 14 71441 72726 88133 |
| 20 | 1292 53498 90990 | 67467 53008 41140 | 28 53898 93153 09941 |
| 21 | 2023 60239 76690 | 1 15291 32468 07770 | 53 50197 54464 32121 |
| 22 | 3105 35247 83446 | 1 92188 21579 21990 | 97 31267 88251 27381 |
| 23 | 4679 84204 79976 | 3 13296 96244 76384 | 172 26608 29840 84991 |
| 24 | 6937 42560 14536 | 5 00490 64436 75424 | 297 58486 79631 40351 |
| 25 | 10130 41971 13900 | 7 84925 09402 71400 | 502 78603 21538 32735 |
| 26 | 14589 94659 05050 | 12 10402 72190 55200 | 832 45457 16452 31535 |
| 27 | 20746 55502 79845 | 18 37770 42529 72350 | 1352 92774 20646 05135 |
| 28 | 29155 30576 98045 | 27 50618 84652 85530 | 2161 54672 91953 88535 |
| 29 | 40526 10731 05395 | 40 62607 60616 97555 | 3399 32521 01332 37385 |
| 30 | 55760 19781 51725 | 59 26808 54245 45725 | 5268 12470 89713 24915 |
| 31 | 75993 79034 69160 | 85 47537 83976 76800 | 8053 72472 39249 73990 |
| 32 | 1 02650 03263 82184 | 121 95239 77641 96480 | 12156 54288 70134 60390 |
| 33 | 1 37500 58024 79144 | 172 25091 37569 23496 | 18132 21037 74590 87910 |

| n | $-^{17}P_n^{n-9}$ | $^{17}P_n^{n-10}$ |
|-----|---------------------------|-----------------------------|
| 9 | 74 13547 68000 | |
| 10 | 913 04947 77120 | 1927 52239 68000 |
| 11 | 6157 08811 87992 | 26579 85829 50240 |
| 12 | 30066 44080 92840 | 1 98978 32562 14016 |
| 13 | 1 18799 37108 33644 | 10 70905 10909 06376 |
| 14 | 4 02803 08648 82024 | 46 34886 24159 15696 |
| 15 | 12 14762 14479 21960 | 171 21781 92272 58440 |
| 16 | 33 37120 80700 15816 | 559 94170 55607 61160 |
| 17 | 84 92763 70894 34425 | 1661 19157 18712 83088 |
| 18 | 202 72753 17739 65627 | 4548 73123 29120 53538 |
| 19 | 458 21441 24153 12982 | 11644 19484 50008 50483 |
| 20 | 987 93343 42320 85770 | 28139 91369 19521 17835 |
| 21 | 2043 87603 88985 53587 | 64693 45075 85392 91325 |
| 22 | 4076 95110 58629 74185 | 1 42360 74023 66843 27631 |
| 23 | 7872 14558 00429 42044 | 3 01361 83336 53403 20846 |
| 24 | 14762 78889 94063 41684 | 6 16247 65656 70580 02606 |
| 25 | 26963 76848 58950 96075 | 12 21522 00144 27180 11650 |
| 26 | 48080 78183 63560 70945 | 23 54000 27785 03120 46800 |
| 27 | 83876 32841 71010 26950 | 44 21473 89681 36230 97435 |
| 28 | 1 43405 14906 79436 52890 | 81 12032 34716 60682 83235 |
| 29 | 2 40674 75188 17361 36965 | 145 65264 05522 35326 63285 |
| 30 | 3 97043 71154 78650 56675 | 256 36302 64178 33949 63675 |

| n | $-{}^{17}P_n^{n-9}$ | ${}^{17}P_n^{n-10}$ |
|-----|----------------------------------|-----------------------------------|
| 31 | 6 44645 57286 95173 27680 | 442 97357 08453 30526 27400 |
| 32 | 10 31224 35961 79160 79200 | 752 40344 58226 98843 56040 |
| 33 | 16 26894 96108 15756 38310 | 1257 70338 20354 77722 36840 |
| n | $-{}^{17}P_n^{n-11}$ | ${}^{17}P_n^{n-12}$ |
| 11 | 52043 10471 36000 | 14 57206 93198 08000 |
| 12 | 7 96279 13697 42720 | 245 49301 90423 46880 |
| 13 | 65 66650 57999 49184 | 2215 48819 30408 22400 |
| 14 | 386 93803 85271 40464 | 14210 56738 73821 76784 |
| 15 | 1823 75277 34205 27040 | |
| 16 | 7302 72298 86927 97120 | 72570 65613 68390 42064 |
| 17 | 25780 79927 21979 15400 | 3 13560 51476 37013 47024 |
| 18 | 82261 31271 58215 40392 | 11 90107 69001 84304 70624 |
| 19 | 2 41466 90586 77434 14222 | 40 69253 63507 21843 84344 |
| 20 | 6 60657 92028 77740 31610 | 127 62062 24631 09472 96336 |
| 21 | 17 01834 72689 00023 91505 | 372 06405 29695 85864 65906 |
| 22 | 41 60185 85571 44954 61855 | 1018 76124 91877 86773 43096 |
| 23 | 97 12254 72494 51842 39464 | 2641 23373 29164 40003 55441 |
| 24 | 217 66728 05955 87970 73304 | 6526 13562 28945 13699 34001 |
| 25 | 470 32881 97880 81751 80150 | 15450 49412 73136 20499 39465 |
| 26 | 983 36806 03940 23316 69450 | 35204 30455 84130 54075 05765 |
| 27 | 1995 58817 98696 57496 81850 | 77489 13115 53560 56692 92115 |
| 28 | 3941 03669 44676 51659 68990 | 1 65295 01106 96209 86552 93515 |
| 29 | 7591 45125 06923 82387 14565 | 3 42641 66232 06653 11238 98065 |
| 30 | 14291 47271 60952 07412 25675 | 6 91848 41985 25149 01047 68055 |
| 31 | 26340 53495 77334 03045 18400 | 13 63547 63750 89896 49423 74780 |
| 32 | 47603 26635 83092 68306 33600 | 26 27893 31548 01929 95592 57980 |
| 33 | 84471 03520 36215 11640 79560 | 49 60453 36703 73471 42603 04380 |
| n | $-{}^{17}P_n^{n-13}$ | ${}^{17}P_n^{n-14}$ |
| 13 | 422 59001 02744 32000 | 12677 70030 82329 60000 |
| 14 | 7787 38058 15448 38400 | 2 54086 49833 61229 50400 |
| 15 | 76467 51456 58103 32800 | 27 01046 96444 20536 00000 |
| 16 | 5 31205 67096 20399 89888 | 202 30834 10618 93732 66304 |
| 17 | 29 26037 32347 77283 78000 | |
| 18 | 135 87094 82544 35741 76816 | 1197 16103 10443 21381 18304 |
| 19 | 552 40863 97608 86406 48656 | 5952 64421 99495 72343 06864 |
| 20 | 2017 33994 83868 72784 85040 | 25839 35525 13414 82976 58480 |
| 21 | 6739 30297 95219 23284 49472 | 1 00480 93334 16557 76016 04960 |
| 22 | 20877 73699 23661 86141 53900 | 3 56574 44656 34888 60826 84896 |
| 23 | 60609 42571 06898 70305 34644 | 11 70806 18926 57701 20346 86996 |
| 24 | 1 66258 77502 73474 70447 52284 | 35 95183 21769 33649 32560 72756 |
| 25 | 4 33830 33556 60225 32120 46325 | 104 11792 99381 46112 20909 16400 |
| 26 | 10 82751 08891 31945 93095 03855 | 286 32667 08758 75575 69968 62050 |
| 27 | 25 96536 18492 49559 18322 51750 | 751 90963 91085 49250 73055 27815 |

*

| n | $-^{17}P_n^{n-13}$ | $^{17}P_n^{n-14}$ |
|-----|--|---------------------------------------|
| 28 | 60 06057 95576 06224 12811 04810 | 1894 38556 04755 29854 79246 04815 |
| 29 | 134 44333 45389 35668 07693 12985 | 4597 11164 05678 09940 55743 21265 |
| 30 | 292 05849 92064 41711 24686 23975 | 10781 50502 93588 50672 09627 18575 |
| 31 | 617 22725 65371 23714 73927 22560 | 24508 25449 20616 11100 69880 45400 |
| 32 | 1271 73012 25414 38746 46267 12000 | 54135 16280 58435 49408 18387 28280 |
| 33 | 2559 39784 71267 33314 30303 53020 | 1 16449 93881 03740 47984 85476 16280 |
| n | $-^{17}P_n^{n-15}$ | |
| 15 | 3 93008 70955 52217 60000 | |
| 16 | 85 23776 65631 11561 72800 | |
| 17 | 976 58326 48289 89249 72800 | |
| 18 | 7855 06686 09333 76160 27136 | |
| 19 | 49755 70294 74846 24501 67776 | |
| 20 | 2 64050 89486 56692 28852 14880 | |
| 21 | 12 20107 03916 53040 98985 78640 | |
| 22 | 50 38382 50614 82235 87595 67120 | |
| 23 | 189 44785 92212 42891 59842 78064 | |
| 24 | 657 77033 49275 50939 73717 57904 | |
| 25 | 2131 79545 41818 30562 08707 40900 | |
| 26 | 6504 74851 15839 67274 86892 29700 | |
| 27 | 18816 79535 92466 17029 95542 97850 | |
| 28 | 51900 81948 00227 84062 09975 21710 | |
| 29 | 1 37148 16970 14216 27527 76047 38385 | |
| 30 | 3 48615 30516 75408 84793 40235 16575 | |
| 31 | 8 55346 04154 74068 66381 92712 89600 | |
| 32 | 20 31742 25716 63641 99215 46974 68800 | |
| 33 | 46 84365 23465 26981 20216 47951 54520 | |
| n | $^{17}P_n^{n-16}$ | |
| 16 | 125 76278 70576 70963 20000 | |
| 17 | 2938 60908 36403 52500 22400 | |
| 18 | 36142 44008 78259 86990 97600 | |
| 19 | 3 11069 78022 04941 52600 47360 | |
| 20 | 21 02275 08632 99406 34660 87296 | |
| 21 | 118 72158 19635 97021 02190 37856 | |
| 22 | 582 36225 68464 12578 63650 26176 | |
| 23 | 2547 33143 42442 19777 79881 43856 | |
| 24 | 10125 24580 30939 35441 73592 66416 | |
| 25 | 37093 82953 51235 23970 96013 40480 | |
| 26 | 1 26629 23861 07604 07578 61724 58280 | |
| 27 | 4 06333 42460 88710 00397 98093 35380 | |
| 28 | 12 34272 42041 57221 49716 01984 40780 | |
| 29 | 35 69809 29701 67474 32510 50869 17730 | |
| 30 | 98 78625 10328 21422 98787 49048 83440 | |
| 31 | 262 63544 44615 65638 84077 40101 62465 | |
| 32 | 673 20154 44043 20934 70409 90320 63265 | |
| 33 | 1668 75525 04158 39392 31967 92080 34465 | |

| n | $-{}^{17}P_n^{n-17}$ |
|-----|---|
| 17 | 4150 17197 29031 41785 60000 |
| 18 | 1 04062 88081 66751 26793 21600 |
| 19 | 13 69048 28389 05846 71477 37600 |
| 20 | 125 67560 37182 83741 65094 42560 |
| 21 | 903 51738 56603 61776 47546 72512 |
| 22 | 5414 93750 02770 48575 30781 11040 |
| 23 | 28127 06551 72871 39142 13141 31904 |
| 24 | 1 30020 32288 70559 30254 08398 86144 |
| 25 | 5 45155 40081 39072 83365 25698 09200 |
| 26 | 21 03096 24128 90952 90145 58261 09360 |
| 27 | 75 48153 50155 17928 16026 12418 15400 |
| 28 | 254 26824 18434 21168 33537 28525 72120 |
| 29 | 809 69083 10304 96135 70758 17824 07220 |
| 30 | 2451 80310 76581 99954 66241 57806 22800 |
| 31 | 7094 75690 62008 06835 09253 63101 44480 |
| 32 | 19701 25824 03559 57499 44968 87979 42800 |
| 33 | 52688 13391 61676 83299 95054 13690 42785 |

| n | ${}^{17}P_n^{n-18}$ |
|-----|--|
| 18 | 1 41105 84707 87068 20710 40000 |
| 19 | 37 83306 67566 23362 58472 96000 |
| 20 | 530 69044 89572 33844 31658 49600 |
| 21 | 5180 68778 65337 32285 40152 24320 |
| 22 | 39514 34844 16274 79791 46927 79776 |
| 23 | 2 50696 91095 24323 74228 47391 10336 |
| 24 | 13 75779 53164 39179 39913 73043 86496 |
| 25 | 67 06612 77001 32110 80331 17397 18400 |
| 26 | 296 03139 60419 73169 81671 96717 04800 |
| 27 | 1200 36277 97962 84144 57932 01944 07280 |
| 28 | 4521 55032 04790 72983 63081 48342 84880 |
| 29 | 15963 62120 34330 25558 72259 32000 30280 |
| 30 | 53209 39943 08358 47801 27135 51907 62400 |
| 31 | 1 68444 14549 07712 45670 40489 68800 34000 |
| 32 | 5 08992 47698 84099 73754 84663 97669 69040 |
| 33 | 14 74354 13076 58518 91227 88139 08661 66240 |

| n | $-{}^{17}P_n^{n-19}$ |
|-----|---|
| 19 | 49 38704 64775 47387 24864 00000 |
| 20 | 1411 37744 97159 88440 29890 56000 |
| 21 | 21046 92406 11336 40680 01254 91200 |
| 22 | 2 17913 05994 94154 67525 27040 15360 |
| 23 | 17 58972 64917 28871 79392 57224 26624 |
| 24 | 117 86849 08727 01821 48531 52868 40064 |
| 25 | 681 93809 88467 08176 84994 47666 86400 |

Première partie

| n | $-{}^{17}P_n^{n-19}$ |
|-----|---|
| 26 | 3498 71546 22522 56830 58903 78348 59200 |
| 27 | 16228 06549 20571 03132 70798 37181 65600 |
| 28 | 69044 02780 30936 05494 19807 22720 85920 |
| 29 | 2 72513 79222 46518 89757 58473 98149 05520 |
| 30 | 10 06840 36758 25710 65458 82402 70162 98400 |
| 31 | 35 07682 14083 18559 12118 57772 09821 31200 |
| 32 | 115 93001 12438 88757 04298 01277 12237 63200 |
| 33 | 365 33632 49682 09644 18285 49811 98052 46160 |
| n | ${}^{17}P_n^{n-20}$ |
| 20 | 1777 93367 31917 05940 95104 00000 |
| 21 | 53998 89931 26832 78232 01054 72000 |
| 22 | 8 53782 01363 57616 24072 48741 37600 |
| 23 | 93 52391 35166 29648 57558 03307 36640 |
| 24 | 797 11297 31857 84520 33260 92278 01600 |
| 25 | 5629 72109 89665 59201 23053 59882 44224 |
| 26 | 34271 12125 05283 02628 92821 61890 73024 |
| 27 | 1 84715 88612 73753 46344 25684 30880 18624 |
| 28 | 8 98750 76777 78878 84183 40812 66873 05024 |
| 29 | 40 05732 01891 71001 31422 32137 89311 71424 |
| 30 | 165 41366 46125 10870 60271 21941 04168 25344 |
| 31 | 638 62863 73763 19271 36835 94868 01828 50144 |
| 32 | 2322 31606 49756 10109 18527 67928 73251 47744 |
| 33 | 8002 88661 59261 59204 29130 30507 72895 44544 |
| n | $-{}^{17}P_n^{n-21}$ |
| 21 | 65783 54590 80931 19815 18848 00000 |
| 22 | 21 17741 71979 00576 92631 58927 36000 |
| 23 | 354 15240 25158 47610 31458 59841 02400 |
| 24 | 4095 10894 31810 33553 33779 92135 68000 |
| 25 | 36776 74084 37981 98886 97477 75534 33600 |
| 26 | 2 73225 02700 03936 85338 65728 90596 91008 |
| 27 | 17 46883 24077 31106 98382 57058 51898 31040 |
| 28 | 98 74382 23037 76259 37529 87168 10626 50496 |
| 29 | 503 18166 78038 25807 25783 23738 19913 76576 |
| 30 | 2345 81839 65056 91867 71210 02081 28252 62080 |
| 31 | 10120 26063 32937 02786 03957 33310 24160 53248 |
| 32 | 40774 43522 73570 27811 72082 86975 11928 60160 |
| 33 | 1 54567 92241 11619 23161 79939 15483 01250 99616 |
| n | ${}^{17}P_n^{n-22}$ |
| 22 | 24 99774 74450 75385 52977 16224 00000 |
| 23 | 850 91701 81631 97885 65609 14391 04000 |

| n | $-{}^{17}\mathbf{P}_n^{n-22}$ |
|-----|--|
| 24 | 15017 01311 87971 02298 23953 08032 00000 |
| 25 | 1 82916 47978 92194 77985 08929 85594 88000 |
| 26 | 17 27539 59522 87438 31238 02995 58036 99200 |
| 27 | 134 76215 75624 56723 00800 29338 53704 12544 |
| 28 | 903 39078 35026 25430 29633 39913 37229 78304 |
| 29 | 5346 86278 71725 57102 18477 62478 15422 50624 |
| 30 | 28493 21950 61485 44236 04506 54435 31455 73120 |
| 31 | 1 38746 68414 19160 62018 51377 52255 59328 90880 |
| 32 | 6 24519 19454 00137 95748 41329 51147 19034 46784 |
| 33 | 26 22466 52068 05081 58522 73390 12928 03535 94624 |

| n | $-{}^{17}\mathbf{P}_n^{n-23}$ |
|-----|---|
| 23 | 974 91215 03579 40035 66109 32736 00000 |
| 24 | 35011 59287 68858 55461 90475 08377 60000 |
| 25 | 6 50709 13074 75670 49689 72551 37689 60000 |
| 26 | 83 33201 28189 47851 25063 47605 32674 56000 |
| 27 | 826 17403 87673 07698 68298 76415 28265 21600 |
| 28 | 6755 70897 15154 03511 03511 67310 91246 73536 |
| 29 | 47408 29422 91335 47874 37014 63412 66586 97216 |
| 30 | 2 93363 98243 90711 74574 86985 37407 76022 25920 |
| 31 | 16 32545 29922 80527 53668 98792 95867 54441 62560 |
| 32 | 82 92386 13804 00237 30557 64914 04136 02229 24800 |
| 33 | 388 93826 67050 06997 22229 90060 10348 34918 17216 |

| n | ${}^{17}\mathbf{P}_n^{n-24}$ |
|-----|--|
| 24 | 38996 48601 43176 01426 44373 09440 00000 |
| 25 | 14 74471 79396 66376 75364 53851 52921 60000 |
| 26 | 288 04255 28536 44537 62333 01009 35884 80000 |
| 27 | 3871 31910 40684 02141 40062 48038 40890 88000 |
| 28 | 40222 97680 98299 40883 45208 10310 84560 38400 |
| 29 | 3 44229 88052 80230 98880 03233 39301 90663 47520 |
| 30 | 25 25011 41506 81663 01101 05906 56284 53664 19456 |
| 31 | 163 13118 58970 45115 06119 94219 14449 26710 37696 |
| 32 | 946 75292 95265 10436 82231 36281 16091 39908 40576 |
| 33 | 5010 02213 71661 22064 79556 17069 18756 49141 55776 |

| n | $-{}^{17}\mathbf{P}_n^{n-25}$ |
|-----|--|
| 25 | 15 98855 92658 70216 58484 19296 87040 00000 |
| 26 | 635 26671 27318 58040 23794 81061 09747 20000 |
| 27 | 13021 09648 54385 73158 04114 24463 52793 60000 |
| 28 | 1 83359 13706 44482 67379 66863 38153 51992 32000 |
| 29 | 19 93393 09350 67956 07135 01228 02141 57209 60000 |

| n | $-{}^{17}P_n^{n-25}$ |
|-----|--|
| 30 | 178 27967 59779 58581 55616 49964 10029 27729 45920 |
| 31 | 1365 03504 10599 96743 07366 27572 55402 49946 60352 |
| 32 | 9195 33196 41181 62266 01123 50091 48967 32044 69760 |
| 33 | 55586 22551 09171 73670 30460 27868 37445 87556 57984 |
| n | ${}^{17}P_n^{n-26}$ |
| 26 | 671 51948 91665 49096 56336 10468 55680 00000 |
| 27 | 27987 98813 66364 44826 79512 96095 74809 60000 |
| 28 | 6 00916 23349 59336 63780 60539 72490 97728 00000 |
| 29 | 88 52077 40139 61056 95865 69391 89399 37382 40000 |
| 30 | 1005 48159 70270 87036 24076 25880 87911 69024 00000 |
| 31 | 9384 62636 79911 40369 38051 74193 59287 72308 58240 |
| 32 | 74906 30833 88709 84036 91632 97676 18607 69745 55136 |
| 33 | 5 25477 57458 06609 35071 46684 52159 18006 39935 73376 |
| n | $-{}^{17}P_n^{n-27}$ |
| 27 | 28875 33803 41616 11152 22452 50147 94240 00000 |
| 28 | 12 60346 81604 61651 83531 21022 78360 85862 40000 |
| 29 | 283 01577 32336 31800 53658 45310 40454 83622 40000 |
| 30 | 4354 97137 78758 40420 63480 37337 52826 03212 80000 |
| 31 | 51612 60643 81489 31123 95064 53738 84675 47340 80000 |
| 32 | 5 02074 67210 17236 68854 21548 15031 30486 18152 75520 |
| 33 | 41 72483 78070 64018 86663 11564 01164 42263 35684 77184 |
| n | ${}^{17}P_n^{n-28}$ |
| 28 | 12 70514 87350 31108 90697 87910 06509 46560 00000 |
| 29 | 579 86121 59558 05441 49602 33935 32748 10368 00000 |
| 30 | 13598 58678 47028 68266 17891 18213 93670 56998 40000 |
| 31 | 2 18282 24154 48673 68036 01468 73077 76494 08000 00000 |
| 32 | 26 95687 35057 60160 61985 64566 52542 40916 80358 40000 |
| 33 | 272 97346 28356 04758 35842 20425 89076 34739 69843 40480 |
| n | $-{}^{17}P_n^{n-29}$ |
| 29 | 571 73169 30763 99900 81404 55952 92925 95200 00000 |
| 30 | 27245 34762 70434 50209 63112 16977 99338 72128 00000 |
| 31 | 6 66378 92650 80782 58720 03997 73033 01855 51052 80000 |
| 32 | 111 43926 52066 17119 24448 74496 80765 73571 35052 80000 |
| 33 | 1432 32606 69888 64989 61745 38256 55343 78494 72614 40000 |
| n | ${}^{17}P_n^{n-30}$ |
| 30 | 26299 65788 15143 95437 44609 73834 74593 79200 00000 |
| 31 | 13 06830 99635 25565 55290 10881 71800 43513 69216 00000 |
| 32 | 332 93019 46874 03129 73852 02772 77385 32578 19750 40000 |
| 33 | 5793 45418 98116 41972 71840 53116 34906 37574 37337 60000 |

| n | $-{}^{17}P_n^{n-31}$ |
|-----|---|
| 31 | 12 36083 92043 11765 85559 96657 70233 05908 22400 00000 |
| 32 | 639 63971 74535 38912 39485 18980 16653 94565 44768 00000 |
| 33 | 16953 21925 71362 92269 58234 54846 08534 90897 12537 60000 |
| n | ${}^{17}P_n^{n-32}$ |
| 32 | 593 32028 18069 64761 06878 39569 71186 83594 75200 00000 |
| 33 | 31935 66643 70303 71468 41652 69597 87230 17301 68832 00000 |
| n | $-{}^{17}P_n^{n-33}$ |
| 33 | 29072 69380 85412 73292 37041 38915 88154 96142 84800 00000 |

TABLEAUX ${}^{18}P_n^r$

| n | $-{}^{18}P_n^{n-1}$ | ${}^{18}P_n^{n-2}$ | $-{}^{18}P_n^{n-3}$ | ${}^{18}P_n^{n-4}$ | $-{}^{18}P_n^{n-5}$ |
|-----|---------------------|--------------------|---------------------|--------------------|---------------------|
| 1 | 18 | | | | |
| 2 | 37 | 342 | | | |
| 3 | 57 | 1082 | 6840 | | |
| 4 | 78 | 2279 | 29562 | 1 43640 | |
| 5 | 100 | 3995 | 79700 | 7 94004 | 31 60080 |
| 6 | 123 | 6295 | 1 71585 | 26 27104 | 214 22172 |
| 7 | 147 | 9247 | 3 22665 | 67 45144 | 844 72668 |
| 8 | 172 | 12922 | 5 53840 | 148 11769 | 2531 01268 |
| 9 | 198 | 17394 | 8 89812 | 292 11609 | 6382 07262 |
| 10 | 225 | 22740 | 13 59450 | 532 36533 | 14269 20705 |
| 11 | 253 | 29040 | 19 96170 | 913 01133 | 29175 43629 |
| 12 | 282 | 36377 | 28 38330 | 1491 90063 | 55652 76486 |
| 13 | 312 | 44837 | 39 29640 | 2343 39963 | 1 00409 78376 |
| 14 | 343 | 54509 | 53 19587 | 3561 58803 | 1 73055 17229 |
| 15 | 375 | 65485 | 70 63875 | 5263 85587 | 2 87025 98925 |
| 16 | 408 | 77860 | 92 24880 | 7594 93462 | 4 60733 23296 |
| 17 | 442 | 91732 | 118 72120 | 10731 39382 | 7 18961 01004 |
| 18 | 477 | 1 07202 | 150 82740 | 14886 63582 | 10 94559 79374 |
| 19 | 513 | 1 24374 | 189 42012 | 20316 42222 | 16 30478 68326 |
| 20 | 550 | 1 43355 | 235 43850 | 27324 96666 | 23 82186 30540 |
| 21 | 588 | 1 64255 | 289 91340 | 36271 62966 | 34 20535 03848 |
| 22 | 627 | 1 87187 | 353 97285 | 47578 25226 | 48 35128 59522 |
| 23 | 667 | 2 12267 | 428 84765 | 61737 16626 | 67 38258 68562 |
| 24 | 708 | 2 39614 | 515 87712 | 79319 91991 | 92 69482 50228 |
| 25 | 750 | 2 69350 | 616 51500 | 1 00986 75895 | 126 00919 13850 |
| 26 | 793 | 3 01600 | 732 33550 | 1 27496 90395 | 169 43349 77335 |
| 27 | 837 | 3 36492 | 865 03950 | 1 59719 66595 | 225 53213 54715 |
| 28 | 882 | 3 74157 | 1016 46090 | 1 98646 44345 | 297 40598 51490 |
| 29 | 928 | 4 14729 | 1188 57312 | 2 45403 64485 | 388 78334 91360 |
| 30 | 975 | 4 58345 | 1383 49575 | 3 01266 58149 | 504 12306 22155 |
| 31 | 1023 | 5 05145 | 1603 50135 | 3 67674 37749 | 648 73102 13307 |
| 32 | 1072 | 5 55272 | 1851 02240 | 4 46245 94364 | 828 89146 63008 |

| n | ${}^{18}P_n^{n-6}$ | $-{}^{18}P_n^{n-7}$ | ${}^{18}P_n^{n-8}$ |
|-----|--------------------|---------------------|--------------------|
| 6 | 726 81840 | | |
| 7 | 5868 13968 | 17443 64160 | |
| 8 | 26986 30668 | 1 64147 13360 | 4 36091 04000 |
| 9 | 92792 63636 | 8 65791 10728 | 47 03916 51360 |
| 10 | 2 65108 59710 | 33 71192 28900 | 280 80276 41016 |
| 11 | 6 64646 39450 | 107 94233 00780 | 1224 73660 50216 |
| 12 | 15 10734 04691 | 300 68978 44830 | 4355 06417 72836 |

| n | ${}^{18}P_n^{n-6}$ | $-{}^{18}P_n^{n-7}$ | ${}^{18}P_n^{n-8}$ |
|-----|---------------------|-----------------------|-------------------------|
| 13 | 31 80316 99271 | 753 90999 85560 | 13375 75771 17736 |
| 14 | 62 93020 28927 | 1739 80826 62961 | 36746 96766 70096 |
| 15 | 118 30785 80255 | 3753 57475 88625 | 92420 83218 84848 |
| 16 | 213 02643 44780 | 7657 73407 37040 | 2 16288 79923 09473 |
| 17 | 369 67573 36844 | 14900 63284 59560 | 4 76651 75773 68833 |
| 18 | 621 31208 71984 | 27839 28352 49100 | 9 98173 90734 53433 |
| 19 | 1015 35361 29448 | 50206 51866 40524 | 20 00388 11424 21033 |
| 20 | 1618 63072 57510 | 87774 60234 30100 | 38 58029 30481 20421 |
| 21 | 2523 86152 18030 | 1 49282 56992 15480 | 71 93464 19384 64221 |
| 22 | 3857 87018 68102 | 2 47713 16927 18650 | 130 15484 42078 67941 |
| 23 | 5791 92162 48982 | 4 02027 97674 42730 | 229 24011 19166 13941 |
| 24 | 8554 60768 60024 | 6 39496 76336 50992 | 394 07158 23817 65871 |
| 25 | 12447 79033 69600 | 9 98790 28617 72000 | 662 66022 29951 07535 |
| 26 | 17866 18556 65150 | 15 34045 27066 64800 | 1092 14004 60513 03535 |
| 27 | 25321 25946 67890 | 23 20157 43559 31400 | 1767 11996 51445 54735 |
| 28 | 35470 20556 30065 | 34 59614 11159 86450 | 2811 19081 11614 67735 |
| 29 | 49150 88087 98605 | 50 91243 56749 69440 | 4402 61330 24968 44435 |
| 30 | 67423 69828 92525 | 74 01334 96885 03875 | 6795 49777 92204 08115 |
| 31 | 91621 60527 55965 | 106 37672 48673 45075 | 10348 13856 42685 94115 |
| 32 | 1 23409 42532 08008 | 151 27131 14523 87360 | 15560 59808 27685 02790 |

| n | $-{}^{18}P_n^{n-9}$ | ${}^{18}P_n^{n-10}$ |
|-----|----------------------------|------------------------------|
| 9 | 113 38367 04000 | |
| 10 | 1383 44112 90720 | 3061 35910 08000 |
| 11 | 9245 91852 39168 | 41797 71071 48160 |
| 12 | 44763 28006 95432 | 3 09929 34790 84032 |
| 13 | 1 75415 20538 80512 | 16 52827 74999 46992 |
| 14 | 5 90063 69445 30328 | 70 90699 11702 42864 |
| 15 | 17 65966 65979 73400 | 259 72737 33952 13360 |
| 16 | 48 15854 12201 73384 | 842 49637 11283 35560 |
| 17 | 121 69673 29586 95466 | 2479 88677 26142 30616 |
| 18 | 288 52484 81666 04621 | 6739 27242 61685 71926 |
| 19 | 647 86745 48109 28209 | 17126 16696 01663 38282 |
| 20 | 1388 01105 70805 06430 | 41097 26278 81706 82015 |
| 21 | 2854 06219 29090 82428 | 93841 68295 72299 26355 |
| 22 | 5659 51322 85091 87047 | 2 05150 10848 06841 41047 |
| 23 | 10865 70699 68239 04687 | 4 31530 63762 10516 22927 |
| 24 | 20264 55158 54050 76268 | 8 77024 62449 08317 15094 |
| 25 | 36815 55804 54392 42850 | 17 28135 79107 78449 18350 |
| 26 | 65309 94763 42288 66855 | 33 11204 78703 17323 60900 |
| 27 | 1 13364 10966 04862 22395 | 61 84842 48293 78025 02520 |
| 28 | 1 92884 50809 19911 85470 | 112 86227 41765 96825 10295 |
| 29 | 3 22199 28540 54187 01280 | 201 58914 78989 12770 41915 |
| 30 | 5 29122 11062 27703 89725 | 353 02281 20394 59560 02075 |
| 31 | 8 55306 00402 53499 79245 | 607 00142 51383 89347 08875 |
| 32 | 13 62364 79367 45110 90880 | 1026 10136 71108 10836 91880 |

| n | $-^{18}P_n^{n-11}$ | $^{18}P_n^{n-12}$ |
|-----|-------------------------------|----------------------------------|
| 11 | 85718 05482 24000 | |
| 12 | 12 97851 66555 20640 | 24 85823 58984 96000 |
| 13 | 105 95732 10280 41600 | 414 21373 55641 15200 |
| 14 | 618 33392 35263 98352 | 3698 89068 74334 04800 |
| 15 | 2887 35764 09741 70000 | 23485 57624 02781 52064 |
| 16 | 11458 36096 30162 10880 | 1 18768 37839 24257 62064 |
| 17 | 40103 23758 13796 19920 | 5 08352 65113 49769 31984 |
| 18 | 1 26899 27462 28776 91480 | 19 11965 96648 32636 29184 |
| 19 | 3 69513 08196 49462 80816 | 64 80339 85290 68605 22464 |
| 20 | 10 03181 25949 11007 97250 | 201 52323 88560 98729 12656 |
| 21 | 25 64877 24544 15867 13820 | 582 73211 74627 17032 08156 |
| 22 | 62 24702 88077 35538 41665 | 1583 03424 31849 35850 47136 |
| 23 | 144 30707 22000 09194 83545 | 4072 91539 54943 57387 13736 |
| 24 | 321 23463 36246 40360 23552 | 9989 50535 56947 34375 39081 |
| 25 | 689 58497 59107 89680 57500 | 23481 35996 79296 29505 28265 |
| 26 | 1432 68336 60742 62995 46550 | 53133 51393 20935 85770 00765 |
| 27 | 2889 61347 23682 25234 26150 | 1 16171 58203 93611 57570 48965 |
| 28 | 5672 79258 96902 36360 39550 | 2 46204 18829 59312 93112 25715 |
| 29 | 10864 45720 18136 90315 13120 | 5 07152 64742 16821 65690 45015 |
| 30 | 20339 14715 30625 90524 83125 | 10 17782 13590 69256 10501 61655 |
| 31 | 37284 24213 09566 49405 82725 | 19 94061 19925 39299 55693 51655 |
| 32 | 67027 31196 27377 27413 17600 | 38 20989 06367 08057 76579 05180 |

| n | $-^{18}P_n^{n-13}$ | $^{18}P_n^{n-14}$ |
|-----|------------------------------------|-------------------------------------|
| 13 | 745 74707 69548 80000 | |
| 14 | 13586 37287 94424 51200 | 23118 15938 56012 80000 |
| 15 | 1 31950 87487 73114 04800 | 4 57882 09152 77597 18400 |
| 16 | 9 06974 89080 64904 22912 | 48 12260 96247 90360 76800 |
| 17 | 49 45099 75614 89663 33088 | 356 49407 24989 97104 55808 |
| 18 | 227 37442 54587 31589 52528 | 2087 27898 71511 35321 13888 |
| 19 | 915 68217 33927 06496 03152 | 10272 75830 36654 72544 04896 |
| 20 | 3313 40791 89682 44889 34320 | 44152 99871 91956 12897 21520 |
| 21 | 10971 29099 54999 96596 15248 | 1 70062 49963 99889 18692 25680 |
| 22 | 33697 84357 65459 60847 33332 | 5 97942 84846 44887 85942 20352 |
| 23 | 97019 21330 39433 94866 18772 | 19 45856 59152 63272 19835 53632 |
| 24 | 2 64008 74451 92120 47738 81948 | 59 23644 33698 80064 09349 23284 |
| 25 | 6 83567 96945 83908 91505 23350 | 170 12011 60679 49124 14379 65100 |
| 26 | 16 93266 44807 93649 60232 38745 | 464 05434 29350 57207 49104 69150 |
| 27 | 40 31141 06109 14827 34112 72405 | 1209 09158 00899 77789 99329 73930 |
| 28 | 92 58862 25286 27348 24784 75830 | 3023 10505 75811 45020 34402 32155 |
| 29 | 205 84254 91447 55743 07948 58720 | 7282 18169 38980 03039 74501 20335 |
| 30 | 444 20429 34329 46360 95399 74425 | 16956 78150 37015 22964 48084 80175 |
| 31 | 932 73971 86682 70653 99477 33865 | 38278 58758 84829 48290 27272 52575 |
| 32 | 1909 82970 63026 96332 28459 64960 | 83982 83380 32282 10336 01662 11960 |

| n | $-{}^{18}P_n^{n-15}$ |
|-----|--|
| 15 | 7 39781 10033 92409 60000 |
| 16 | 158 49890 12075 53116 67200 |
| 17 | 1794 66762 84504 25382 78400 |
| 18 | 14271 96016 59153 24042 31680 |
| 19 | 89414 00370 33561 95603 31648 |
| 20 | 4 69506 06093 89786 79733 12800 |
| 21 | 21 47320 01226 84119 69827 30560 |
| 22 | 87 79757 49822 79797 98825 32080 |
| 23 | 326 97471 43680 75312 36513 46160 |
| 24 | 1124 77591 68938 69472 49770 45072 |
| 25 | 3612 70653 84288 32164 42438 23000 |
| 26 | 10927 87152 93506 44502 60763 22300 |
| 27 | 31346 26261 84931 61632 21369 64900 |
| 28 | 85755 38372 25421 62181 91207 91750 |
| 29 | 2 24818 21637 12748 33117 73714 70880 |
| 30 | 5 67080 75598 44809 75985 75271 26625 |
| 31 | 13 81006 26816 21540 78280 83341 75025 |
| 32 | 32 56657 05999 78185 44504 19695 51200 |

| n | ${}^{18}P_n^{n-16}$ |
|-----|--|
| 16 | 244 12776 31119 49516 80000 |
| 17 | 5633 09040 41687 55483 64800 |
| 18 | 68446 45739 99336 43881 08800 |
| 19 | 5 82237 02337 28853 09404 49280 |
| 20 | 38 90555 16039 70645 46727 20256 |
| 21 | 217 31785 47607 82543 76586 06656 |
| 22 | 1054 77265 95454 63211 99850 98496 |
| 23 | 4566 67565 88366 55131 52863 81696 |
| 24 | 17972 63894 79277 42938 49915 74256 |
| 25 | 65213 22745 74702 60783 40274 67280 |
| 26 | 2 20559 60860 99100 43853 65118 56280 |
| 27 | 7 01385 95590 13384 01968 38700 37480 |
| 28 | 21 11967 77373 35306 75418 00334 57980 |
| 29 | 60 56715 42497 04701 35785 95898 78480 |
| 30 | 166 23171 59442 03872 92319 60490 09840 |
| 31 | 438 43047 88167 54741 39635 73510 87840 |
| 32 | 1115 12355 02162 10239 75396 57256 64065 |

| n | $-{}^{18}P_n^{n-17}$ |
|-----|------------------------------------|
| 17 | 8300 34394 58062 83571 20000 |
| 18 | 2 05458 50809 17127 25498 88000 |
| 19 | 26 69530 97448 93239 05218 04800 |
| 20 | 242 12300 83928 60803 53184 28160 |
| 21 | 1720 53396 93437 45331 28817 97888 |

| n | $-{}^{18}P_n^{n-17}$ |
|-----|---|
| 22 | 10195 93030 50142 64538 15674 57472 |
| 23 | 52386 83668 68327 93018 09713 97312 |
| 24 | 2 39620 53869 91356 53410 77130 46848 |
| 25 | 9 94471 37451 21008 56827 73591 65600 |
| 26 | 37 98640 15518 33220 70514 05402 58640 |
| 27 | 135 03262 93401 93640 00074 70619 34960 |
| 28 | 450 65630 94957 95920 88652 12136 21560 |
| 29 | 1422 16148 54132 20031 57880 27526 88640 |
| 30 | 4268 81773 51493 40995 39820 34769 77200 |
| 31 | 12247 94010 04711 26895 71161 38294 49520 |
| 32 | 33731 03356 24921 09224 13312 40327 53680 |
| n | ${}^{18}P_n^{n-18}$ |
| 18 | 2 90512 03810 32199 24992 00000 |
| 19 | 76 87018 32940 48780 42951 68000 |
| 20 | 1064 59664 38550 98625 36019 45600 |
| 21 | 10265 27096 27838 09159 57022 15680 |
| 22 | 77366 09576 71898 77079 80923 33312 |
| 23 | 4 85203 30796 77604 58606 07906 32192 |
| 24 | 26 33063 61212 79049 72348 06179 21984 |
| 25 | 126 97126 23749 16024 15600 45658 89600 |
| 26 | 554 59395 34151 19392 59193 10100 10400 |
| 27 | 2225 99562 16957 81103 61811 47813 90560 |
| 28 | 8302 46394 20044 94903 65173 25684 63760 |
| 29 | 29032 65417 88111 07264 43170 83950 55520 |
| 30 | 95874 24399 32324 48748 63543 77714 21600 |
| 31 | 3 00777 49528 04008 16527 74920 46663 27200 |
| 32 | 9 00926 56020 34860 34417 61828 23093 53680 |
| n | $-{}^{18}P_n^{n-19}$ |
| 19 | 104 58433 37171 59172 99712 00000 |
| 20 | 2948 78111 55969 64048 88924 16000 |
| 21 | 43403 45358 20907 11812 57663 48800 |
| 22 | 4 43749 02113 06592 69035 81527 60320 |
| 23 | 35 38392 85181 82543 52228 18460 92800 |
| 24 | 234 31728 47849 64331 55077 42620 12672 |
| 25 | 1340 20400 18786 84419 93696 02147 36000 |
| 26 | 6799 96828 40000 73458 64515 65479 88800 |
| 27 | 31202 10223 42653 26732 69012 09884 46400 |
| 28 | 1 31371 90521 05754 76395 50528 61510 21600 |
| 29 | 5 13285 24654 27822 41963 48498 43003 54560 |
| 30 | 18 77819 99294 69042 83391 77527 88679 64000 |
| 31 | 64 79783 70462 20618 23326 27629 18962 00800 |
| 32 | 212 17880 97336 17018 33185 98732 05462 33600 |

| n | ${}^{18}P_n^{n-20}$ |
|-----|--|
| 20 | 3869 62034 75348 89400 89344 00000 |
| 21 | 1 15923 30274 02195 23258 68462 08000 |
| 22 | 18 08657 99244 17572 83949 17338 11200 |
| 23 | 195 58618 83766 81280 45381 78442 24000 |
| 24 | 1646 32725 76221 65564 86737 35340 28800 |
| 25 | 11487 65321 85906 67489 99989 25385 61024 |
| 26 | 69116 42529 93740 97547 28918 17722 09024 |
| 27 | 3 68315 02979 53773 29727 67606 98837 16224 |
| 28 | 17 72409 63033 73170 32698 73151 43638 04224 |
| 29 | 78 15517 27002 37889 46891 97467 73107 97824 |
| 30 | 319 39923 85753 45543 19175 76893 94274 62144 |
| 31 | 1220 75283 51898 59599 21980 98232 50897 34144 |
| 32 | 4395 84685 04546 69892 64968 52062 80035 73344 |
| n | $-{}^{18}P_n^{n-21}$ |
| 21 | 1 47045 57320 63257 97233 95072 00000 |
| 22 | 46 68054 38007 48872 04322 65093 12000 |
| 23 | 770 14374 07774 51785 62289 58617 60000 |
| 24 | 8789 17746 42213 84284 22942 74749 44000 |
| 25 | 77934 92228 43523 38008 65911 59041 53600 |
| 26 | 5 71904 01068 37510 40078 65449 50622 77632 |
| 27 | 36 13026 72385 62113 32159 37849 30394 74688 |
| 28 | 201 87203 06464 81911 69904 80163 78067 04768 |
| 29 | 1017 18046 06016 47746 74046 45129 85416 99072 |
| 30 | 4690 47357 75128 28551 77969 26113 21491 96800 |
| 31 | 20021 63702 91294 14624 98406 17022 46673 79712 |
| 32 | 79838 52595 34325 34986 75474 30415 40643 52768 |
| n | ${}^{18}P_n^{n-22}$ |
| 22 | 57 34777 35504 67060 92124 07808 00000 |
| 23 | 1924 56952 55804 21942 65030 11532 80000 |
| 24 | 33500 46289 74559 45153 18903 14854 40000 |
| 25 | 4 02645 91639 47540 85090 82498 54330 88000 |
| 26 | 37 53847 57462 19046 19463 16696 93116 92800 |
| 27 | 289 17624 04470 69503 82923 96475 20519 08608 |
| 28 | 1915 03826 61823 64603 30095 99693 88282 69568 |
| 29 | 11201 15167 59205 32541 45716 87227 79366 88896 |
| 30 | 59008 63332 41979 76638 25900 08330 93965 45280 |
| 31 | 2 84151 36504 48137 47123 68424 61765 25579 91680 |
| 32 | 12 65211 57947 21550 63747 90326 95866 12595 97568 |
| n | $-{}^{18}P_n^{n-23}$ |
| 23 | 2293 91094 20186 82436 84963 12320 00000 |
| 24 | 81201 26149 08159 82085 51197 85164 80000 |

| n | $-{}^{18}P_n^{n-23}$ |
|-----|---|
| 25 | 14 88220 70318 39656 78519 45130 09049 60000 |
| 26 | 188 01995 10815 83913 37424 92567 45277 44000 |
| 27 | 1839 71288 39152 21945 93804 27232 42422 27200 |
| 28 | 14852 64370 40333 49618 25382 68616 65781 14560 |
| 29 | 1 02944 40394 84221 21370 09798 54535 26785 14688 |
| 30 | 6 29398 53271 66871 50818 58491 54241 57028 92800 |
| 31 | 34 61812 93227 81900 29455 01695 54126 67370 66240 |
| 32 | 173 85229 81947 40636 38515 54501 80624 20786 58560 |
| n | ${}^{18}P_n^{n-24}$ |
| 24 | 94050 34862 27659 79910 83488 05120 00000 |
| 25 | 35 04503 33123 70372 27502 33797 82041 60000 |
| 26 | 674 97993 56814 75614 03838 74391 71174 40000 |
| 27 | 8947 85778 32711 67802 50535 47359 63381 76000 |
| 28 | 91734 93755 94561 55369 71727 72818 72384 00000 |
| 29 | 7 74956 54794 49902 37809 39331 29184 98316 69760 |
| 30 | 56 13343 53352 08299 42203 99862 92342 57218 60096 |
| 31 | 358 24473 10392 18131 81496 07456 95937 94607 14496 |
| 32 | 2054 53306 78555 31246 24791 90538 48144 95769 60256 |
| n | $-{}^{18}P_n^{n-25}$ |
| 25 | 39 50114 64215 61711 56255 06498 15040 00000 |
| 26 | 1546 43757 88534 87719 38855 59804 42828 80000 |
| 27 | 31245 55474 88384 14737 07760 33039 74502 40000 |
| 28 | 4 33899 15499 60409 65849 81856 64223 26681 60000 |
| 29 | 46 53706 28273 10241 12856 81332 13884 56345 60000 |
| 30 | 410 76664 03614 55652 89898 29902 85578 77230 38720 |
| 31 | 3105 17153 64514 54025 15690 23323 18022 23723 23328 |
| 32 | 20659 16335 73731 42484 08997 88714 18981 59473 33632 |
| n | ${}^{18}P_n^{n-26}$ |
| 26 | 1698 54929 61271 53597 18967 79420 46720 00000 |
| 27 | 69741 80276 56806 13250 28614 10815 31187 20000 |
| 28 | 14 75791 76646 34092 76418 77828 97603 83795 20000 |
| 29 | 214 35152 89628 12937 05510 43234 51874 11148 80000 |
| 30 | 2401 59348 18463 94270 09780 65845 04448 59392 00000 |
| 31 | 22118 39221 91962 65609 24899 01182 12229 66450 58560 |
| 32 | 1 74271 79750 53175 12841 93720 44017 95319 28889 01632 |
| n | $-{}^{18}P_n^{n-27}$ |
| 27 | 74736 16902 95947 58276 34582 94500 55680 00000 |
| 28 | 32 13117 29348 52223 54539 22217 81189 59104 00000 |

| n | $-{}^{18}P_n^{n-27}$ |
|-----|--|
| 29 | 710 99538 55080 20490 69803 02350 70966 13683 20000 |
| 30 | 10785 51724 67602 28532 28793 34373 09049 37676 80000 |
| 31 | 1 26062 00437 53871 53496 98264 94935 22581 88492 80000 |
| 32 | 12 09863 22311 60041 68350 18316 52859 21835 44571 49440 |
| n | ${}^{18}P_n^{n-28}$ |
| 28 | 33 63127 60633 17641 22435 56232 52525 05600 00000 |
| 29 | 1511 66523 10665 19924 31239 78251 87246 24384 00000 |
| 30 | 34928 44834 99434 82987 11981 88735 22654 67494 40000 |
| 31 | 5 52633 27619 44344 52536 94062 38643 57024 75980 80000 |
| 32 | 67 29671 49058 84049 73889 09044 90469 63537 12128 00000 |
| n | $-{}^{18}P_n^{n-29}$ |
| 29 | 1547 03869 89126 11496 32035 86696 16152 57600 00000 |
| 30 | 72595 30455 90390 47939 00305 64534 16726 03648 00000 |
| 31 | 17 49160 82535 63262 31320 75436 23825 04150 43379 20000 |
| 32 | 288 28191 35888 36144 05630 84493 17359 98363 66438 40000 |
| n | ${}^{18}P_n^{n-30}$ |
| 30 | 72710 81884 88927 40327 05685 74719 59171 07200 00000 |
| 31 | 35 57285 43768 27670 41399 20356 72359 62020 82304 00000 |
| 32 | 892 66165 88014 27523 76116 16732 39786 65392 07884 80000 |
| n | $-{}^{18}P_n^{n-31}$ |
| 31 | 34 90119 30474 68515 35698 72915 86540 40211 45600 00000 |
| 32 | 1777 97105 75120 24365 64259 70395 32161 79231 78496 00000 |
| n | ${}^{18}P_n^{n-32}$ |
| 32 | 1710 15845 93259 57252 49237 72877 40479 70361 34400 00000 |

TABLEAUX ${}^{19}P_n^r$

| n | $-{}^{19}P_n^{n-1}$ | ${}^{19}P_n^{n-2}$ | $-{}^{19}P_n^{n-3}$ | ${}^{19}P_n^{n-4}$ | $-{}^{19}P_n^{n-5}$ |
|-----|---------------------|--------------------|---------------------|--------------------|---------------------|
| 1 | 19 | | | | |
| 2 | 39 | 380 | | | |
| 3 | 60 | 1199 | 7980 | | |
| 4 | 82 | 2519 | 34358 | 1 75560 | |
| 5 | 105 | 4405 | 92295 | 9 65794 | 40 37880 |
| 6 | 129 | 6925 | 1 98015 | 31 80874 | 272 16936 |
| 7 | 154 | 10150 | 3 71140 | 81 31249 | 1067 38786 |
| 8 | 180 | 14154 | 6 35040 | 177 80889 | 3181 51260 |
| 9 | 207 | 19014 | 10 17198 | 349 26969 | 7982 35263 |
| 10 | 235 | 24810 | 15 49590 | 634 08513 | 17761 90395 |
| 11 | 264 | 31625 | 22 69080 | 1083 46623 | 36150 37272 |
| 12 | 294 | 39545 | 32 17830 | 1764 19023 | 68654 35962 |
| 13 | 325 | 48659 | 44 43725 | 2761 71753 | 1 23344 25675 |
| 14 | 357 | 59059 | 60 00813 | 4183 70953 | 2 11719 21771 |
| 15 | 390 | 70840 | 79 49760 | 6163 97782 | 3 49781 63220 |
| 16 | 424 | 84100 | 103 58320 | 8866 89622 | 5 59356 87808 |
| 17 | 459 | 98940 | 133 01820 | 12492 30822 | 8 69698 24578 |
| 18 | 495 | 1 15464 | 168 63660 | 17280 96342 | 13 19421 34170 |
| 19 | 532 | 1 33779 | 211 35828 | 23520 51762 | 19 58816 98824 |
| 20 | 570 | 1 53995 | 262 19430 | 31552 13226 | 28 52596 65780 |
| 21 | 609 | 1 76225 | 322 25235 | 41777 70996 | 40 83129 81594 |
| 22 | 649 | 2 00585 | 392 74235 | 54667 80396 | 57 54238 21434 |
| 23 | 690 | 2 27194 | 474 98220 | 70770 24031 | 79 95618 17670 |
| 24 | 732 | 2 56174 | 570 40368 | 90719 49271 | 109 67968 26972 |
| 25 | 775 | 2 87650 | 680 55850 | 1 15246 85095 | 148 68906 45625 |
| 26 | 819 | 3 21750 | 807 12450 | 1 45191 42495 | 199 39767 89805 |
| 27 | 864 | 3 58605 | 951 91200 | 1 81512 02745 | 264 73382 02080 |
| 28 | 910 | 3 98349 | 1116 87030 | 2 25299 97945 | 348 22935 28350 |
| 29 | 957 | 4 41119 | 1304 09433 | 2 77792 88355 | 454 12034 31765 |
| 30 | 1005 | 4 87055 | 1515 83145 | 3 40389 41139 | 587 46092 72805 |
| 31 | 1054 | 5 36300 | 1754 48840 | 4 14665 15244 | 754 25173 88616 |

| n | ${}^{19}P_n^{n-6}$ | $-{}^{19}P_n^{n-7}$ | ${}^{19}P_n^{n-8}$ |
|-----|--------------------|---------------------|--------------------|
| 6 | 969 09120 | | |
| 7 | 7773 32520 | 24227 28000 | |
| 8 | 35525 40956 | 2 26333 73520 | 6 29909 28000 |
| 9 | 1 21426 24976 | 11 85519 79332 | 67 40920 13040 |
| 10 | 3 44932 12340 | 45 85454 78660 | 399 35474 34336 |
| 11 | 8 60027 33795 | 145 88486 36520 | 1729 13663 15476 |
| 12 | 19 44538 51955 | 403 89306 50370 | 6105 68254 11076 |
| 13 | 40 72823 66777 | 1006 70000 60975 | 18626 36755 72546 |

| n | ${}^{19}P_n^{n-6}$ | $-{}^{19}P_n^{n-7}$ | ${}^{19}P_n^{n-8}$ |
|-----|---------------------|-----------------------|-------------------------|
| 14 | 80 19839 88377 | 2310 00357 97839 | 50840 76775 23746 |
| 15 | 150 06574 06820 | 4956 55074 14280 | 1 27070 88588 52433 |
| 16 | 268 99149 56300 | 10058 78592 46160 | 2 95593 61109 37953 |
| 17 | 464 76640 29580 | 19473 48827 16660 | 6 47651 11845 53553 |
| 18 | 777 85777 14388 | 36205 07877 81540 | 13 48696 69623 53313 |
| 19 | 1266 04366 78678 | 64985 81632 13896 | 26 88284 61102 70293 |
| 20 | 2010 39412 33990 | 1 13095 47570 03660 | 51 57745 63123 98341 |
| 21 | 3122 90681 99410 | 1 91500 84651 29270 | 95 68469 18355 41081 |
| 22 | 4756 15874 63170 | 3 16417 11931 05670 | 172 28503 04407 11881 |
| 23 | 7115 39641 41964 | 5 11419 62790 95640 | 302 01604 93580 44351 |
| 24 | 10473 55604 84104 | 8 10266 27730 58128 | 516 81229 30800 61231 |
| 25 | 15189 78240 43900 | 12 60629 18738 74600 | 865 22679 23215 60735 |
| 26 | 21732 10124 51400 | 19 28979 61318 06200 | 1419 90363 47720 43135 |
| 27 | 30704 99679 92625 | 29 06924 16921 19200 | 2287 94446 07033 22135 |
| 28 | 42882 75252 88305 | 43 19354 02197 79950 | 3625 12957 85408 05335 |
| 29 | 59249 53211 20755 | 63 34843 39083 30285 | 5655 22596 88704 62985 |
| 30 | 81047 30858 45475 | 91 78820 93221 26525 | 8695 95079 64703 16665 |
| 31 | 1 09832 89402 12920 | 131 50139 05285 54800 | 13193 57305 32545 16390 |

| n | $-{}^{19}P_n^{n-9}$ | ${}^{19}P_n^{n-10}$ |
|-----|----------------------------|-----------------------------|
| 9 | 170 07550 56000 | |
| 10 | 2057 53314 21120 | 4762 11415 68000 |
| 11 | 13638 82070 16864 | 64430 57527 80480 |
| 12 | 65512 91964 81144 | 4 73595 19632 86400 |
| 13 | 2 54789 07842 24500 | 25 04495 70542 01864 |
| 14 | 8 50832 84025 45972 | 106 57746 21493 85864 |
| 15 | 25 28578 17608 29590 | 387 35229 94334 02940 |
| 16 | 68 48988 29618 12312 | 1247 06887 93016 09000 |
| 17 | 171 94764 68446 40667 | 3644 21478 29650 39920 |
| 18 | 405 10204 94885 68575 | 9834 33006 93721 03932 |
| 19 | 904 11982 70956 41156 | 24823 10590 04491 41207 |
| 20 | 1925 66797 92859 12290 | 59179 65933 00835 05135 |
| 21 | 3937 18877 54694 47589 | 1 34280 71052 22340 84445 |
| 22 | 7764 57644 88910 90829 | 2 91768 26154 10119 88005 |
| 23 | 14828 26269 69602 77950 | 6 10115 89594 55467 11994 |
| 24 | 27512 93676 99981 40692 | 12 32902 92921 78783 85894 |
| 25 | 49735 86537 24407 73625 | 24 15959 21032 77984 35650 |
| 26 | 87805 84423 45894 45965 | 46 04337 28671 51924 75150 |
| 27 | 1 51701 50779 93313 87040 | 85 55600 27727 17175 43575 |
| 28 | 2 56946 95299 16842 05250 | 155 33869 63604 09613 47415 |
| 29 | 4 27328 04318 31020 55995 | 276 10376 42665 01189 94165 |
| 30 | 6 98778 88968 88842 79275 | 481 22122 49943 90176 81925 |
| 31 | 11 24880 47871 59297 95860 | 823 62288 09419 43473 66400 |

| n | $-{}^{19}P_n^{n-11}$ | ${}^{19}P_n^{n-12}$ |
|-----|------------------------------------|-------------------------------------|
| 11 | 1 38101 31054 72000 | |
| 12 | 20 71018 56888 86400 | 41 43039 31641 60000 |
| 13 | 167 52469 65507 64800 | 683 44614 95196 38400 |
| 14 | 968 96332 22852 24448 | 6044 23643 91441 12000 |
| 15 | 4486 01957 32149 57960 | 38020 02607 45565 18784 |
| 16 | 17655 99775 39506 57920 | 1 90544 69156 38650 89424 |
| 17 | 61303 40852 95069 72920 | 8 08504 61295 21381 16624 |
| 18 | 1 92495 14071 62484 10040 | 30 15427 32001 43891 41744 |
| 19 | 5 56365 35328 30162 55524 | 101 37747 52651 55803 13224 |
| 20 | 14 99643 37750 00836 21390 | 312 79630 95127 01980 23136 |
| 21 | 38 07650 09137 33403 21655 | 897 65722 67377 34592 57346 |
| 22 | 91 78878 51226 27036 99455 | 2420 71726 32870 70721 23546 |
| 23 | 211 41377 23544 41952 07660 | 6184 05745 33147 79238 01201 |
| 24 | 467 66244 86515 71571 11408 | 15063 43589 22013 41225 22921 |
| 25 | 997 81070 82152 59277 04850 | 35172 92118 42189 18783 13465 |
| 26 | 2060 83276 07594 90588 73450 | 79076 59234 56903 26973 26865 |
| 27 | 4132 78453 97813 27202 55200 | 1 71814 06657 98674 03466 32115 |
| 28 | 8068 36066 73263 17272 59650 | 3 61922 15540 98084 54783 71315 |
| 29 | 15369 27939 62655 69105 88155 | 7 41135 10677 41453 66595 74865 |
| 30 | 28622 26008 10576 26223 08075 | 14 78860 51779 48926 83678 06305 |
| 31 | 52202 10010 57827 44887 22400 | 28 81351 26176 67163 68609 01980 |
| n | $-{}^{19}P_n^{n-13}$ | ${}^{19}P_n^{n-14}$ |
| 13 | 1284 34218 80889 60000 | |
| 14 | 23154 61897 27173 88800 | 41098 95001 88467 20000 |
| 15 | 2 22614 42146 44730 84800 | 8 05201 37611 85205 50400 |
| 16 | 15 15295 30799 93947 23456 | 83 74091 70591 06054 33600 |
| 17 | 81 84359 51273 46728 53296 | 614 09427 48588 94207 54560 |
| 18 | 372 90525 57901 16450 51760 | 3560 46369 94433 76434 73216 |
| 19 | 1488 61336 41954 40432 96288 | 17357 95816 36776 85103 88336 |
| 20 | 5340 95742 42713 60951 98800 | 73925 26600 31044 21556 47280 |
| 21 | 17540 01349 52667 38181 01104 | 2 82222 60554 96874 98684 00480 |
| 22 | 53446 30256 47761 21883 94944 | 9 83823 14536 03570 25924 44640 |
| 23 | 1 52695 71035 95460 21454 60330 | 31 75121 55051 61780 23166 37344 |
| 24 | 4 12426 12339 87667 49451 10772 | 95 88341 38561 71109 24259 71204 |
| 25 | 10 60153 86676 34244 22135 96375 | 273 22664 69176 40811 50657 34400 |
| 26 | 26 07762 39886 90568 48593 88835 | 739 69434 82935 47557 24639 74900 |
| 27 | 61 66209 05442 51215 62390 97760 | 1913 18742 77846 23139 11364 72475 |
| 28 | 140 69656 11709 90221 21841 75050 | 4749 64359 28201 79057 81349 69435 |
| 29 | 310 79997 42136 00194 96676 26855 | 11362 38196 78567 19455 07911 96785 |
| 30 | 666 54482 54651 89970 93272 20375 | 26280 78073 01095 28813 48372 85825 |
| 31 | 1391 18647 91846 87385 93497 29320 | 58941 47717 79038 37389 18710 84200 |
| n | $-{}^{19}P_n^{n-15}$ | |
| 15 | 13 56265 35062 19417 60000 | |

| n | $-{}^{19}P_n^{n-15}$ |
|-----|--|
| 16 | 287 33112 13865 16404 73600 |
| 17 | 3218 26321 84552 28306 49600 |
| 18 | 25325 65711 33754 19778 13760 |
| 19 | 1 57062 81399 27803 47863 22752 |
| 20 | 8 16665 22421 25323 81810 79520 |
| 21 | 36 99750 59833 36048 22513 23440 |
| 22 | 149 88654 82032 11047 69873 42640 |
| 23 | 553 25403 78009 57428 32775 72880 |
| 24 | 1886 80508 90177 52198 05763 41328 |
| 25 | 6009 79188 48331 09895 48931 03100 |
| 26 | 18031 76434 92093 05601 77854 16700 |
| 27 | 51318 01002 24189 45677 86642 87200 |
| 28 | 1 39324 63170 05116 10077 09420 21050 |
| 29 | 3 62557 88056 30600 25794 32855 84495 |
| 30 | 9 07952 21502 01825 59638 12630 30175 |
| 31 | 21 95710 47079 55494 71498 82900 35600 |

| n | ${}^{19}P_n^{n-16}$ |
|-----|---|
| 16 | 461 13021 92114 60198 40000 |
| 17 | 10517 71946 77395 34364 16000 |
| 18 | 1 26375 19533 21277 53398 01600 |
| 19 | 10 63424 50852 70182 85189 10720 |
| 20 | 70 31811 44025 26715 03991 75296 |
| 21 | 388 81755 18454 14343 94612 76576 |
| 22 | 1868 71779 11788 56272 95142 14176 |
| 23 | 8014 06626 75105 09228 59952 62416 |
| 24 | 31250 73585 51507 21218 36533 23376 |
| 25 | 1 12383 35468 29140 65734 84360 00480 |
| 26 | 3 76814 19761 55709 01136 37325 36880 |
| 27 | 11 88243 59332 99896 53216 40762 88380 |
| 28 | 35 48872 05436 12611 54398 26334 99580 |
| 29 | 100 97129 74428 53068 28021 69084 88930 |
| 30 | 274 99908 01131 21880 66149 46165 44690 |
| 31 | 719 89566 54730 11334 88417 65050 23265 |

| n | $-{}^{19}P_n^{n-17}$ |
|-----|---------------------------------------|
| 17 | 16139 55767 24011 06944 00000 |
| 18 | 3 94777 45851 10243 44053 76000 |
| 19 | 50 70659 68579 97512 19780 35200 |
| 20 | 454 80791 00982 64460 56966 42560 |
| 21 | 3197 21437 17968 06347 12644 79104 |
| 22 | 18749 91644 56133 80104 97155 42144 |
| 23 | 95367 34588 39464 87295 97983 23360 |
| 24 | 4 31958 12911 93878 74897 15993 44832 |

| n | $-{}^{19}P_n^{n-17}$ |
|-----|---|
| 25 | 17 75739 77089 08688 87286 86922 50000 |
| 26 | 67 20607 37693 90877 79619 98762 71120 |
| 27 | 236 77246 26963 97783 30756 78404 30720 |
| 28 | 783 36451 56281 93023 78711 53496 96200 |
| 29 | 2451 33438 11779 85766 35429 91241 76460 |
| 30 | 7297 95665 84349 33043 80471 07316 45100 |
| 31 | 20772 91158 39779 05196 21794 69423 34910 |
| n | ${}^{19}P_n^{n-18}$ |
| 18 | 5 81024 07620 64398 49984 00000 |
| 19 | 151 87790 04111 43405 79973 12000 |
| 20 | 2078 72858 10150 48869 31626 49600 |
| 21 | 19816 23707 48473 62831 53317 09440 |
| 22 | 1 47704 81194 67196 16716 59108 73600 |
| 23 | 9 16451 38621 68682 01020 42481 01504 |
| 24 | 49 21879 91334 26206 67451 57776 82624 |
| 25 | 234 96079 46547 62992 88029 45495 10400 |
| 26 | 1016 28629 38467 45303 28651 70085 10400 |
| 27 | 4040 55961 34693 34804 11551 14407 10800 |
| 28 | 14932 09289 75036 32836 26363 21005 23920 |
| 29 | 51750 22513 20287 04954 25805 35362 45320 |
| 30 | 1 69414 27542 85720 21739 26441 14967 15400 |
| 31 | 5 27014 15169 18837 40885 69523 73473 25300 |
| n | $-{}^{19}P_n^{n-19}$ |
| 19 | 214 97890 81963 82744 49408 00000 |
| 20 | 5986 33912 38198 32164 88386 56000 |
| 21 | 87056 75378 34067 38068 21819 90400 |
| 22 | 8 79706 23677 73012 51329 54503 68000 |
| 23 | 69 35603 52659 28055 36709 77961 85600 |
| 24 | 454 26561 74770 12699 79567 62164 48768 |
| 25 | 2570 67398 02143 39586 79985 46568 01600 |
| 26 | 12908 94894 50239 11273 53281 48352 59200 |
| 27 | 58641 83216 81274 49921 42608 02182 27200 |
| 28 | 2 44507 57438 77168 50910 73960 64909 24000 |
| 29 | 9 46315 94057 03875 94215 13031 52155 48240 |
| 30 | 34 30326 74690 77654 32019 51688 49553 23600 |
| 31 | 117 31626 24290 77944 97243 47304 82943 78200 |
| n | ${}^{19}P_n^{n-20}$ |
| 20 | 8169 19851 14625 44290 77504 00000 |
| 21 | 2 41636 42434 04359 98721 24579 84000 |
| 22 | 37 23906 57567 67055 21449 97376 00000 |

| n | ${}^{19}P_n^{n-20}$ |
|-----|--|
| 23 | 397 91862 28354 60568 25961 32026 88000 |
| 24 | 3310 87210 40044 38893 67772 06424 83200 |
| 25 | 22844 29365 55159 84984 89179 79497 80224 |
| 26 | 1 35953 94878 49469 26804 08540 28490 50624 |
| 27 | 7 16856 65131 10229 34113 06207 04357 14624 |
| 28 | 34 14380 93104 48856 30498 66176 04741 65824 |
| 29 | 149 06236 92726 75776 23303 42326 55475 93824 |
| 30 | 603 29402 07464 61821 45629 67839 58939 09344 |
| 31 | 2284 15412 67312 66883 14586 00575 87047 65744 |
| n | $-{}^{19}P_n^{n-21}$ |
| 21 | 3 18598 74194 70392 27340 22656 00000 |
| 22 | 99 84055 71556 44791 76190 05849 60000 |
| 23 | 1626 64225 31830 94055 55638 98265 60000 |
| 24 | 18339 22441 22724 37922 46014 43394 56000 |
| 25 | 1 60706 72488 44633 10350 60213 19662 33600 |
| 26 | 11 65855 64572 71666 49685 84124 17565 63456 |
| 27 | 72 83783 34104 97783 55869 68436 99638 41536 |
| 28 | 402 59189 30135 68333 25070 53961 00067 14240 |
| 29 | 2007 35093 06046 64579 58507 64235 22925 07968 |
| 30 | 9162 34465 56931 01838 77071 95909 85770 11520 |
| 31 | 38723 75167 22697 31090 12926 20049 73785 69376 |
| n | ${}^{19}P_n^{n-22}$ |
| 22 | 127 43949 67788 15690 93609 06240 00000 |
| 23 | 4220 90234 01602 52153 17401 46073 60000 |
| 24 | 72539 87697 38502 02486 54238 73228 80000 |
| 25 | 8 61126 52670 15650 33152 32859 39194 88000 |
| 26 | 79 32222 42161 79506 88578 82240 04337 66400 |
| 27 | 603 95726 47934 04499 24441 67827 94791 21920 |
| 28 | 3954 49760 16763 02542 94447 15929 78158 32576 |
| 29 | 22876 31657 33140 14205 72762 52096 81314 01856 |
| 30 | 1 19229 16124 23379 14025 81129 35387 81717 84320 |
| 31 | 5 68184 04937 12999 04125 57655 34970 84453 48800 |
| n | $-{}^{19}P_n^{n-23}$ |
| 23 | 5225 01936 79314 43328 37971 55840 00000 |
| 24 | 1 82502 91765 46620 33761 68832 90931 20000 |
| 25 | 33 01717 62753 02207 40683 01098 39769 60000 |
| 26 | 411 91284 80239 90821 99385 46911 64344 32000 |
| 27 | 3981 41293 77520 68631 85432 47713 59539 20000 |
| 28 | 31763 44711 82486 75597 09749 67799 19935 28320 |
| 29 | 2 17624 83439 70348 95115 48766 16498 93376 59392 |
| 30 | 13 15688 02991 61075 76990 41367 17145 96449 48480 |
| 31 | 71 57916 93079 06653 64255 16705 51149 00623 80160 |

| n | ${}^{19}P_n^{n-24}$ |
|-----|--|
| 24 | 2 19450 81345 31206 19791 94805 45280 00000 |
| 25 | 80 67076 27260 35880 71544 54620 55321 60000 |
| 26 | 1533 42651 88393 33006 61597 02950 05184 00000 |
| 27 | 20069 50467 99189 19996 33943 13974 00678 40000 |
| 28 | 2 03214 49981 65140 77061 63837 08799 39481 60000 |
| 29 | 16 96096 51437 42018 30125 22071 95361 76439 91040 |
| 30 | 121 42088 56543 18767 95668 62847 87310 58516 41856 |
| 31 | 766 10802 03132 11480 68198 89839 27462 84541 17376 |
| n | $-{}^{19}P_n^{n-25}$ |
| 25 | 94 36384 97848 41866 51053 76634 47040 00000 |
| 26 | 3643 87740 97304 20617 99013 79938 81190 40000 |
| 27 | 72648 07075 75004 05915 70880 12691 14470 40000 |
| 28 | 9 95845 28603 37707 25747 32264 55495 45676 80000 |
| 29 | 105 46926 77740 99323 47644 32607 69067 01312 00000 |
| 30 | 919 59559 46737 16201 93654 92061 46431 70427 69920 |
| 31 | 6869 21899 17353 35831 81417 71607 24650 37732 20864 |
| n | ${}^{19}P_n^{n-26}$ |
| 26 | 4152 00939 05330 42126 46365 71916 69760 00000 |
| 27 | 1 68126 49282 84019 69936 01986 69163 23328 00000 |
| 28 | 35 09937 74767 34206 42058 62472 52955 88966 40000 |
| 29 | 503 14666 19126 06447 52182 78906 61242 35776 00000 |
| 30 | 5565 67151 50693 73974 39110 44075 76458 98752 00000 |
| 31 | 50625 85565 40814 67869 28201 55087 51612 49709 26080 |
| n | $-{}^{19}P_n^{n-27}$ |
| 27 | 1 86840 42257 39868 95690 86457 36251 39200 00000 |
| 28 | 79 20659 09268 04775 12747 77845 17760 12288 00000 |
| 29 | 1728 87733 23333 12476 89503 14054 06686 93708 80000 |
| 30 | 25879 91710 41384 21957 94277 01571 46320 10956 80000 |
| 31 | 2 98597 82134 25377 46703 10688 61283 92810 49804 80000 |
| n | ${}^{19}P_n^{n-28}$ |
| 28 | 85 94659 43840 33972 01779 77038 67564 03200 00000 |
| 29 | 3808 65636 79438 58403 00925 35762 02289 80736 00000 |
| 30 | 86794 76831 99428 57293 97076 10357 23262 78758 40000 |
| 31 | 13 54910 70642 27255 33233 16649 87358 92948 15641 60000 |

| n | $-{}^{19}\mathcal{P}_n^{n-29}$ |
|-----|--|
| 29 | 4039 48993 60495 96684 83649 20817 75509 50400 00000 |
| 30 | 1 86854 99559 73548 00029 28066 37394 85420 25728 00000 |
| 31 | 44 39798 64327 45548 07433 84795 44899 25296 84889 60000 |
| n | ${}^{19}\mathcal{P}_n^{n-30}$ |
| 30 | 1 93895 51693 03806 40872 15161 99252 24456 19200 00000 |
| 31 | 93 49790 30120 07658 42306 90414 31600 10048 79872 00000 |
| n | $-{}^{19}\mathcal{P}_n^{n-31}$ |
| 31 | 95 00880 32958 86514 02735 42937 63359 98353 40800 00000 |

TABLEAUX ${}^{20}P_n^r$

| n | $-{}^{20}P_n^{n-1}$ | ${}^{20}P_n^{n-2}$ | $-{}^{20}P_n^{n-3}$ | ${}^{20}P_n^{n-4}$ | $-{}^{20}P_n^{n-5}$ |
|-----|---------------------|--------------------|---------------------|--------------------|---------------------|
| 1 | 20 | | | | |
| 2 | 41 | 420 | | | |
| 3 | 63 | 1322 | 9240 | | |
| 4 | 86 | 2771 | 39646 | 2 12520 | |
| 5 | 110 | 4835 | 1 06150 | 11 64024 | 51 00480 |
| 6 | 135 | 7585 | 2 27025 | 38 17774 | 342 01080 |
| 7 | 161 | 11095 | 4 24235 | 97 20424 | 1334 63204 |
| 8 | 188 | 15442 | 7 23800 | 211 74769 | 3959 14652 |
| 9 | 216 | 20706 | 11 56176 | 414 41169 | 9888 08184 |
| 10 | 245 | 26970 | 17 56650 | 749 70273 | 21906 02085 |
| 11 | 275 | 34320 | 25 65750 | 1276 69773 | 44397 10275 |
| 12 | 306 | 42845 | 36 29670 | 2072 08023 | 83974 73238 |
| 13 | 338 | 52637 | 50 00710 | 3233 57463 | 1 50281 29974 |
| 14 | 371 | 63791 | 67 37731 | 4883 80893 | 2 56989 26253 |
| 15 | 405 | 76405 | 89 06625 | 7174 63747 | 4 23038 76615 |
| 16 | 440 | 90580 | 115 80800 | 10291 95622 | 6 74151 07760 |
| 17 | 476 | 1 06420 | 148 41680 | 14461 04422 | 10 44661 50152 |
| 18 | 513 | 1 24032 | 187 79220 | 19952 46582 | 15 79720 13766 |
| 19 | 551 | 1 43526 | 234 92436 | 27088 56942 | 23 37913 83882 |
| 20 | 590 | 1 65015 | 290 89950 | 36250 61946 | 33 94368 04620 |
| 21 | 630 | 1 88615 | 356 90550 | 47886 59946 | 48 44392 82460 |
| 22 | 671 | 2 14445 | 434 23765 | 62519 72496 | 68 07743 40246 |
| 23 | 713 | 2 42627 | 524 30455 | 80757 70626 | 94 33571 85078 |
| 24 | 756 | 2 73286 | 628 63416 | 1 03302 80191 | 129 06153 21996 |
| 25 | 800 | 3 06550 | 748 88000 | 1 30962 70495 | 174 51476 50400 |
| 26 | 845 | 3 42550 | 886 82750 | 1 64662 30495 | 233 44798 22675 |
| 27 | 891 | 3 81420 | 1044 40050 | 2 05456 36995 | 309 19264 25445 |
| 28 | 938 | 4 23297 | 1223 66790 | 2 54543 19345 | 405 75713 64210 |
| 29 | 986 | 4 68321 | 1426 85046 | 3 13279 25265 | 527 93786 92770 |
| 30 | 1035 | 5 16635 | 1656 32775 | 3 83194 92519 | 681 44470 30755 |

| n | ${}^{20}P_n^{n-6}$ | $-{}^{20}P_n^{n-7}$ | ${}^{20}P_n^{n-8}$ |
|-----|--------------------|---------------------|---------------------|
| 6 | 1275 12000 | | |
| 7 | 10167 40080 | 33153 12000 | |
| 8 | 46202 46588 | 3 07672 94160 | 8 95134 24000 |
| 9 | 1 57058 56844 | 16 01341 98624 | 95 09976 60480 |
| 10 | 4 43812 94180 | 61 56040 47100 | 559 48894 20576 |
| 11 | 11 00993 56730 | 194 70428 72500 | 2406 30108 33576 |
| 12 | 24 77303 75255 | 536 01229 31130 | 8442 13398 81076 |
| 13 | 51 64495 18871 | 1328 74949 39290 | 25594 52736 77236 |
| 14 | 101 23778 08013 | 3033 03290 62033 | 69443 26066 73806 |
| 15 | 188 61413 00615 | 6475 11745 34475 | 1 72566 37947 82928 |

| n | ${}^{20}P_n^{n-6}$ | $-{}^{20}P_n^{n-7}$ | ${}^{20}P_n^{n-8}$ |
|-----|---------------------------|-----------------------------|-------------------------|
| 16 | 336 67769 82140 | 13076 61200 56000 | 3 99195 49034 89553 |
| 17 | 579 37208 61500 | 25197 00914 13040 | 8 69953 52255 05553 |
| 18 | 965 89684 17124 | 46633 77632 88540 | 18 02242 86077 88033 |
| 19 | 1566 19049 40232 | 83337 85631 39252 | 35 74326 36127 52553 |
| 20 | 2477 97689 11630 | 1 44419 28558 08300 | 68 24502 75751 83381 |
| 21 | 3835 72410 96430 | 2 43538 36122 73500 | 126 01274 18075 15381 |
| 22 | 5821 92516 77290 | 4 00803 04972 27130 | 225 86346 99107 28881 |
| 23 | 8681 17739 67622 | 6 45323 90676 73310 | 394 20075 07942 68341 |
| 24 | 12737 61329 25976 | 10 18614 53482 81056 | 671 69003 07042 20671 |
| 25 | 18416 32070 93800 | 15 79069 51970 24000 | 1119 88042 60285 87135 |
| 26 | 26269 48513 61800 | 24 07803 95162 45000 | 1830 46170 98946 67135 |
| 27 | 37008 09232 04850 | 36 16200 26788 87800 | 2938 05152 76419 37135 |
| 28 | 51540 14652 00765 | 53 55580 60695 15750 | 4637 66565 35496 63735 |
| 29 | 71016 48906 82845 | 78 29507 63991 52470 | 7208 34434 48864 19735 |
| 30 | 96885 44466 28575 | 113 09315 60426 11875 | 11044 80308 84448 90765 |
| n | $-{}^{20}P_n^{n-9}$ | ${}^{20}P_n^{n-10}$ | |
| 9 | 250 63758 72000 | | |
| 10 | 3008 53080 25920 | 7268 49002 88000 | |
| 11 | 19793 19906 43200 | 97524 41410 65600 | |
| 12 | 94388 53264 84056 | 7 11113 58510 04800 | |
| 13 | 3 64536 82026 78488 | 37 31546 62984 94592 | |
| 14 | 12 09156 22340 27276 | 157 61261 69868 84696 | |
| 15 | 35 70227 08609 36680 | 568 72573 29438 12080 | |
| 16 | 96 10050 36783 39160 | 1818 30521 30765 95880 | |
| 17 | 239 81088 02039 63068 | 5277 92334 54968 05640 | |
| 18 | 561 69368 35476 68529 | 14150 92591 30434 39156 | |
| 19 | 1246 54597 06436 13783 | 35495 28588 78548 43258 | |
| 20 | 2640 53325 15409 63350 | 84110 57874 29557 80795 | |
| 21 | 5370 33435 45482 98590 | 1 89731 90880 45943 14795 | |
| 22 | 10536 85676 86564 29211 | 4 09915 61734 10745 56985 | |
| 23 | 20023 12250 49070 42213 | 8 52463 60162 46445 83847 | |
| 24 | 36973 75478 90605 80876 | 17 13457 86933 56473 99006 | |
| 25 | 66528 11614 00462 90400 | 33 40303 08005 43129 57550 | |
| 26 | 1 16922 73531 13327 11475 | 63 34068 30635 63960 25550 | |
| 27 | 2 01123 97396 64873 99685 | 117 12514 13067 77007 53400 | |
| 28 | 3 39212 39576 56584 45030 | 211 65340 90710 26085 38595 | |
| 29 | 5 61820 34713 60423 04310 | 374 47535 90385 42139 00035 | |
| 30 | 9 15029 22003 54768 71325 | 649 76732 91352 02868 11225 | |
| n | $-{}^{20}P_n^{n-11}$ | ${}^{20}P_n^{n-12}$ | |
| 11 | 2 18054 70086 40000 | | |
| 12 | 32 41311 53816 73600 | 67 59695 72678 40000 | |
| 13 | 259 96946 26138 27200 | 1104 81664 94813 95200 | |
| 14 | 1491 37985 04641 48736 | 9683 80891 57376 92800 | |
| 15 | 6850 20882 80182 28400 | 60390 72383 15187 49824 | |

| n | $-{}^{20}P_n^{n-11}$ | ${}^{20}P_n^{n-12}$ |
|-----|-------------------------------|----------------------------------|
| 16 | 26755 60948 10516 51200 | 3 00148 03281 21567 43824 |
| 17 | 92214 59715 18091 02880 | 12 63349 97413 00161 87024 |
| 18 | 2 87497 76093 51909 11560 | 46 75290 06874 69529 93584 |
| 19 | 8 25232 94563 08415 99488 | 156 00204 98428 42076 32864 |
| 20 | 22 09549 09525 71804 86550 | 477 84289 86388 70300 12896 |
| 21 | 55 73972 24497 54117 18350 | 1361 66253 67417 42494 74896 |
| 22 | 133 52980 50596 37786 24945 | 3646 99115 71816 61299 27246 |
| 23 | 305 69436 43428 89100 18315 | 9255 24296 96864 48321 74936 |
| 24 | 672 25371 30414 86271 23736 | 22400 10063 64306 79629 62481 |
| 25 | 1426 17517 55491 71126 80000 | 51979 26401 02560 75564 06865 |
| 26 | 2929 31156 15736 11957 69750 | 1 16157 14690 99687 76270 06865 |
| 27 | 5842 98298 24975 54129 45050 | 2 50905 47874 23549 26324 15365 |
| 28 | 11347 86462 39160 73483 54850 | 5 25525 67891 97399 70408 32715 |
| 29 | 21507 22825 93253 25582 07410 | 10 70223 18086 77114 97618 65515 |
| 30 | 39856 52085 22138 90393 09125 | 21 24077 36557 46524 51140 28605 |

| n | $-{}^{20}P_n^{n-13}$ | ${}^{20}P_n^{n-14}$ |
|-----|-----------------------------------|-------------------------------------|
| 13 | 2163 10263 25708 80000 | |
| 14 | 38622 05206 54569 21600 | 71382 38687 48390 40000 |
| 15 | 3 67871 55520 05384 76800 | 13 84532 15710 03743 74400 |
| 16 | 24 81546 88930 36947 20640 | 142 60036 58911 92210 62400 |
| 17 | 132 86876 07054 13374 98304 | 1035 95724 60405 22310 05440 |
| 18 | 600 30825 11335 19364 18192 | 5952 10139 21408 17184 42688 |
| 19 | 2376 91847 72573 61501 74384 | 28763 81493 52145 53023 33984 |
| 20 | 8460 99842 11282 02478 56080 | 1 21463 63554 82516 51591 34960 |
| 21 | 27574 71436 66830 14483 71920 | 4 59903 57239 33797 50733 78160 |
| 22 | 83402 87837 30944 56768 42656 | 15 90466 86142 73833 44566 26880 |
| 23 | 2 36576 50697 47242 31337 86988 | 50 93387 75309 73505 28840 18432 |
| 24 | 6 34551 95467 12415 09173 09236 | 152 66177 55301 04924 76368 58916 |
| 25 | 16 20156 38267 41914 12876 58400 | 431 86463 55854 51188 79984 65300 |
| 26 | 39 59223 26313 57148 13259 67325 | 1160 93500 77888 37324 59430 93300 |
| 27 | 93 02452 02099 42785 21682 83115 | 2982 17770 88312 66138 69375 90250 |
| 28 | 210 95009 52188 49600 58918 05270 | 7354 33015 86985 77043 88468 96655 |
| 29 | 463 20242 11003 24786 38517 75590 | 17479 93472 92033 57872 16535 49615 |
| 30 | 987 61177 97255 03420 21831 85825 | 40176 85336 31192 72405 03905 53525 |

| n | $-{}^{20}P_n^{n-15}$ |
|-----|-----------------------------------|
| 15 | 24 27001 15374 45273 60000 |
| 16 | 508 8-626 65225 76304 64000 |
| 17 | 5642 46943 86054 95887 10400 |
| 18 | 43972 88754 21048 21359 11680 |
| 19 | 2 70152 74044 34558 74367 33824 |
| 20 | 13 91941 52291 68234 42277 59200 |
| 21 | 62 50486 94484 68895 05931 57600 |
| 22 | 251 06533 41297 54592 86016 62160 |

| n | $-{}^{20}P_n^{n-15}$ |
|-----|--|
| 23 | 919 06141 59292 55597 57799 91120 |
| 24 | 3109 21814 97611 16324 97927 83696 |
| 25 | 9826 33627 30857 33014 58145 76000 |
| 26 | 29260 24487 44310 36510 57455 14500 |
| 27 | 82663 25523 27175 53441 91278 06300 |
| 28 | 2 22825 60754 77870 61960 51945 48050 |
| 29 | 5 75833 45516 53187 60066 98455 87490 |
| 30 | 14 32350 25689 62832 95803 08695 18625 |

| n | ${}^{20}P_n^{n-16}$ |
|-----|---|
| 16 | 849 45040 38105 84576 00000 |
| 17 | 19168 27599 86233 31543 04000 |
| 18 | 2 27939 64522 70266 79365 88800 |
| 19 | 18 98909 37182 70098 91012 32640 |
| 20 | 124 34866 24912 17889 91338 51776 |
| 21 | 681 12527 16579 47266 82442 19776 |
| 22 | 3243 82491 90451 71964 25636 81376 |
| 23 | 13788 56895 24948 64864 38334 92096 |
| 24 | 53308 20983 74528 55560 23731 10256 |
| 25 | 1 90113 80842 69419 73859 32555 92880 |
| 26 | 6 32298 94071 57999 59515 49115 12880 |
| 27 | 19 78270 20493 96276 39001 92051 79880 |
| 28 | 58 63443 20087 73526 50771 82120 75980 |
| 29 | 165 59072 36317 11316 24876 75503 82380 |
| 30 | 447 74911 66627 17508 68158 99841 69390 |

| n | $-{}^{20}P_n^{n-17}$ |
|-----|---|
| 17 | 30580 21453 71810 44736 00000 |
| 18 | 7 39806 42648 62443 11828 48000 |
| 19 | 94 01512 94511 32581 27732 22400 |
| 20 | 834 58978 44636 66438 77212 95360 |
| 21 | 5808 53628 41123 82035 30753 66400 |
| 22 | 33734 67242 20882 19975 10883 77216 |
| 23 | 1 69975 31902 19854 42473 87629 95008 |
| 24 | 7 62883 78397 92646 31642 36031 55136 |
| 25 | 31 08445 01682 71902 76292 80200 06400 |
| 26 | 116 63566 39603 95790 99962 45216 86000 |
| 27 | 407 49317 66896 63772 37675 04512 78480 |
| 28 | 1337 28017 30112 88762 70765 30947 32840 |
| 29 | 4151 73290 94324 18035 07812 72743 79880 |
| 30 | 12265 67836 73862 72531 26773 72431 16500 |

| n | ${}^{20}P_n^{n-18}$ |
|-----|--|
| 18 | 11 31467 93787 56986 55232 00000 |
| 19 | 292 44112 14435 29825 04714 24000 |
| 20 | 3959 03117 00377 00494 86270 97600 |
| 21 | 37342 62254 85843 58045 74789 12000 |
| 22 | 2 75492 61019 71920 21493 35689 34400 |
| 23 | 16 92348 85192 48972 60447 92807 77472 |
| 24 | 90 01287 56987 02712 86824 60895 62816 |
| 25 | 425 68174 06495 79150 79088 46283 88800 |
| 26 | 1824 48199 82218 14775 12264 55286 76800 |
| 27 | 7189 72254 04000 21161 10537 35262 32800 |
| 28 | 26341 90184 48142 18462 81264 47363 21360 |
| 29 | 90531 35014 93560 79072 77999 32834 97680 |
| 30 | 2 93966 26271 15445 62791 60822 97281 11800 |
| n | $-{}^{20}P_n^{n-19}$ |
| 19 | 429 95781 63927 65488 98816 00000 |
| 20 | 11835 16155 26904 28665 82671 36000 |
| 21 | 1 70196 40835 41984 48460 33510 40000 |
| 22 | 17 01243 93284 61571 28335 99864 32000 |
| 23 | 132 71933 56112 82220 31056 98816 76800 |
| 24 | 860 42934 19389 88042 30317 89551 08096 |
| 25 | 4820 99587 26819 07408 50600 68958 72000 |
| 26 | 23976 67420 19129 69194 09581 51733 68000 |
| 27 | 1 07902 84612 01164 48849 73750 94925 00800 |
| 28 | 4 45819 80551 89174 43421 69006 52254 42400 |
| 29 | 17 10231 09406 99999 29636 69701 25688 67680 |
| 30 | 61 46267 25138 84478 04202 91668 34602 54000 |
| n | ${}^{20}P_n^{n-20}$ |
| 20 | 16768 35483 93178 54070 53824 00000 |
| 21 | 4 90174 81694 69350 00703 60678 40000 |
| 22 | 74 68227 55946 90713 87577 34604 80000 |
| 23 | 789 20472 73900 76707 77689 28906 24000 |
| 24 | 6496 13615 86752 12181 13139 78027 26400 |
| 25 | 44355 02720 39906 86042 47127 18274 82624 |
| 26 | 2 61299 84147 46765 19425 24158 21417 22624 |
| 27 | 13 64226 85476 26731 02353 64908 01166 50624 |
| 28 | 64 35660 62240 81461 98291 31202 62641 88224 |
| 29 | 278 35011 28731 61834 82532 43515 70854 23424 |
| 30 | 1116 36334 89674 61800 34730 58877 29599 39744 |
| n | $-{}^{20}P_n^{n-21}$ |
| 21 | 6 70734 19357 27141 62821 52960 00000 |
| 22 | 207 67901 68839 70491 91669 40774 40000 |

| n | $-{}^{20}P_n^{n-21}$ |
|-----|---|
| 23 | 3344 33459 18609 80474 69917 94176 00000 |
| 24 | 37280 13786 96342 78909 10557 37144 32000 |
| 25 | 3 23110 12885 13436 14878 88707 70343 93600 |
| 26 | 23 19086 35303 09244 86790 09430 92711 11680 |
| 27 | 143 38879 06086 60443 80351 20708 77903 52384 |
| 28 | 784 57541 23471 16801 90972 71385 32729 31712 |
| 29 | 3873 69251 11030 26977 08955 69111 39539 66464 |
| 30 | 17512 84804 18879 56883 53045 01381 11397 14240 |

| n | ${}^{20}P_n^{n-22}$ |
|-----|---|
| 22 | 275 00101 93648 12806 75682 71360 00000 |
| 23 | 8997 51972 84915 73467 25797 83884 80000 |
| 24 | 1 52803 90717 85137 33879 32269 33452 80000 |
| 25 | 17 93129 97344 24220 05879 96793 67802 88000 |
| 26 | 163 33085 77175 28846 75429 88640 33280 00000 |
| 27 | 1230 11058 01117 54110 67774 22462 97991 37280 |
| 28 | 7969 38373 87187 94969 44280 95775 59456 99328 |
| 29 | 45629 00353 13804 01461 10971 22271 30464 21504 |
| 30 | 2 35439 93657 54287 23338 49800 08729 67907 78240 |

| n | $-{}^{20}P_n^{n-23}$ |
|-----|--|
| 23 | 11550 04281 33221 37883 78673 97120 00000 |
| 24 | 3 98443 39113 84597 96975 87981 04166 40000 |
| 25 | 71 21815 30699 30640 87666 07831 76089 60000 |
| 26 | 878 12664 11190 20543 52264 63547 27219 20000 |
| 27 | 8391 34609 61253 47494 22039 41002 58099 20000 |
| 28 | 66206 54336 13777 90696 07427 96762 63693 72160 |
| 29 | 4 48736 96281 98799 49229 32913 93991 17629 39904 |
| 30 | 26 84558 13585 75196 20823 70503 85285 10375 93600 |

| n | ${}^{20}P_n^{n-24}$ |
|-----|---|
| 24 | 4 96651 84097 28519 29002 82980 76160 00000 |
| 25 | 180 28161 05106 50829 95941 54146 59481 60000 |
| 26 | 3385 09849 86575 29669 40915 06575 83513 60000 |
| 27 | 43778 92399 01324 74671 45088 29750 35596 80000 |
| 28 | 4 38172 19050 80238 06899 80940 56871 66259 20000 |
| 29 | 36 16086 27185 41577 60311 37483 01478 23557 83680 |
| 30 | 256 04197 45002 82752 72548 50266 07045 87398 38976 |

| n | $-{}^{20}P_n^{n-25}$ |
|-----|---|
| 25 | 218 52681 00280 54848 76124 51153 51040 00000 |
| 26 | 8331 19928 30073 42196 93493 87750 27712 00000 |
| 27 | 1 64045 73022 12537 06989 75586 90238 69337 60000 |
| 28 | 22 21655 15775 74800 16547 94736 88505 42387 20000 |
| 29 | 232 53920 30214 26227 47738 79884 18345 22828 80000 |
| 30 | 2004 42147 62299 63530 02996 16551 90778 77162 80320 |
| n | ${}^{20}P_n^{n-26}$ |
| 26 | 9833 70645 12624 68194 25603 01907 96800 00000 |
| 27 | 3 93068 87346 96002 09253 26321 38420 71552 00000 |
| 28 | 81 03218 19386 85244 37771 78905 79639 30419 20000 |
| 29 | 1147 42665 76622 75652 32073 26276 27899 65004 80000 |
| 30 | 12541 84760 57121 60798 71274 40601 26815 83616 00000 |
| n | $-{}^{20}P_n^{n-27}$ |
| 27 | 4 52350 49675 80735 36935 77738 87766 52800 00000 |
| 28 | 189 26587 54982 92833 71839 14843 93540 15744 00000 |
| 29 | 4078 81060 85551 84563 84885 02322 16226 75865 60000 |
| 30 | 60302 71683 40066 91527 56474 89859 83309 61100 80000 |
| n | ${}^{20}P_n^{n-28}$ |
| 28 | 212 60473 34762 94562 35981 53727 25026 81600 00000 |
| 29 | 9297 36675 73943 50580 84260 66236 14954 37312 00000 |
| 30 | 2 09159 08657 65983 94209 43626 80022 10065 54726 40000 |
| n | $-{}^{20}P_n^{n-29}$ |
| 29 | 10205 02720 68621 38993 27113 78908 01287 16800 00000 |
| 30 | 4 65775 99831 91853 17454 55886 24479 34051 45088 00000 |
| n | ${}^{20}P_n^{n-30}$ |
| 30 | 5 00046 33313 62448 10670 28575 66492 63071 23200 00000 |

TABLEAUX ${}^{21}P_n^r$

| n | $-{}^{21}P_n^{n-1}$ | ${}^{21}P_n^{n-2}$ | $-{}^{21}P_n^{n-3}$ | ${}^{21}P_n^{n-4}$ | $-{}^{21}P_n^{n-5}$ |
|-----|---------------------|--------------------|---------------------|--------------------|---------------------|
| 1 | 21 | | | | |
| 2 | 43 | 462 | | | |
| 3 | 66 | 1451 | 10626 | | |
| 4 | 90 | 3035 | 45450 | 2 55024 | |
| 5 | 115 | 5285 | 1 21325 | 13 91274 | 63 75600 |
| 6 | 141 | 8275 | 2 58735 | 45 45724 | 425 48724 |
| 7 | 168 | 12082 | 4 82160 | 115 31569 | 1652 83272 |
| 8 | 196 | 16786 | 8 20456 | 250 32049 | 4881 67204 |
| 9 | 225 | 22470 | 13 07250 | 488 25273 | 12140 96625 |
| 10 | 255 | 29220 | 19 81350 | 880 42773 | 26788 54815 |
| 11 | 286 | 37125 | 28 87170 | 1494 64623 | 54081 80778 |
| 12 | 318 | 46277 | 40 75170 | 2418 54063 | 1 01910 48714 |
| 13 | 351 | 56771 | 56 02311 | 3763 34673 | 1 81722 32793 |
| 14 | 385 | 68705 | 75 32525 | 5668 13247 | 3 09676 11675 |
| 15 | 420 | 82180 | 99 37200 | 8304 51622 | 5 08060 75320 |
| 16 | 456 | 97300 | 128 95680 | 11881 90822 | 8 07023 33712 |
| 17 | 493 | 1 14172 | 164 95780 | 16653 30982 | 12 46653 94126 |
| 18 | 531 | 1 32906 | 208 34316 | 22921 70622 | 18 79479 71442 |
| 19 | 570 | 1 53615 | 260 17650 | 31047 08946 | 27 73426 25700 |
| 20 | 610 | 1 76415 | 321 62250 | 41454 14946 | 40 15309 83540 |
| 21 | 651 | 2 01425 | 393 95265 | 54640 67196 | 57 14929 96326 |
| 22 | 693 | 2 28767 | 478 55115 | 71186 68326 | 80 09838 18558 |
| 23 | 736 | 2 58566 | 576 92096 | 91764 38271 | 110 70865 56576 |
| 24 | 780 | 2 90950 | 690 69000 | 1 17148 90495 | 151 08498 40500 |
| 25 | 825 | 3 26050 | 821 61750 | 1 48229 95495 | 203 80199 12775 |
| 26 | 871 | 3 64000 | 971 60050 | 1 86024 35995 | 271 98777 05545 |
| 27 | 918 | 4 04937 | 1142 68050 | 2 31689 58345 | 359 41921 97310 |
| 28 | 966 | 4 49001 | 1337 05026 | 2 86538 24745 | 470 63021 97870 |
| 29 | 1015 | 4 96335 | 1557 06075 | 3 52053 71019 | 611 03396 10375 |

| n | ${}^{21}P_n^{n-6}$ | $-{}^{21}P_n^{n-7}$ | ${}^{21}P_n^{n-8}$ |
|-----|--------------------|---------------------|---------------------|
| 6 | 1657 65600 | | |
| 7 | 13145 81148 | 44756 71200 | |
| 8 | 59425 12764 | 4 12839 43344 | 12 53187 93600 |
| 9 | 2 00993 61680 | 21 36168 13500 | 132 25531 50576 |
| 10 | 5 65222 60430 | 81 65976 63900 | 773 10575 55576 |
| 11 | 13 95667 59695 | 256 87877 37230 | 3304 55851 36476 |
| 12 | 31 26285 44591 | 703 49240 47470 | 11524 67927 27836 |
| 13 | 64 89331 52153 | 1735 16660 18973 | 34739 92862 94346 |
| 14 | 126 67890 67115 | 3941 53931 92175 | 93735 59309 39428 |
| 15 | 235 06554 75740 | 8375 30105 41200 | 2 31689 46926 65553 |

| n | ${}^{21}P_n^{n-6}$ | $-{}^{21}P_n^{n-7}$ | ${}^{21}P_n^{n-8}$ |
|-----|--------------------|----------------------|------------------------|
| 16 | 417 96741 87260 | 16837 66076 67840 | 5 33200 30721 48753 |
| 17 | 716 56605 34604 | 32302 45525 96460 | 11 56193 75558 58833 |
| 18 | 1190 29455 11392 | 59531 96529 11412 | 23 83687 05545 24313 |
| 19 | 1923 29163 97630 | 1 05953 45278 55700 | 47 05433 70180 69381 |
| 20 | 3032 66214 25630 | 1 82885 11837 60900 | 89 43571 81322 97381 |
| 21 | 4678 93917 50770 | 3 07224 26622 11730 | 164 41861 66664 94281 |
| 22 | 7079 20975 96462 | 5 03739 71157 44070 | 293 45280 84793 86941 |
| 23 | 10523 44017 94456 | 8 08145 73123 91936 | 510 06088 44563 81951 |
| 24 | 15394 62102 83800 | 12 71177 09913 48000 | 865 64500 62016 27135 |
| 25 | 22193 44531 06300 | 19 63935 04541 19000 | 1437 67470 08122 87135 |
| 26 | 31568 33690 93950 | 29 84833 52970 08800 | 2341 08482 17017 61135 |
| 27 | 44351 76212 54565 | 44 68545 36444 24450 | 3743 95658 06611 74735 |
| 28 | 61603 88467 25445 | 65 97429 94646 43570 | 5888 85835 55935 48335 |
| 29 | 84664 76544 21075 | 96 16020 29541 90375 | 9121 59902 93610 83265 |

| n | $-{}^{21}P_n^{n-9}$ | ${}^{21}P_n^{n-10}$ |
|-----|---------------------------|-----------------------------|
| 9 | 363 42450 14400 | |
| 10 | 4331 08395 31680 | 10902 73504 32000 |
| 11 | 28297 36237 54536 | 1 45166 33759 14080 |
| 12 | 1 34043 23481 21768 | 10 50681 93360 59232 |
| 13 | 5 14357 65081 40356 | 54 74108 68240 77576 |
| 14 | 16 95515 22421 48120 | 229 62268 81008 49680 |
| 15 | 49 76260 98250 28100 | 823 05301 65760 33880 |
| 16 | 133 17081 87609 88008 | 2614 50697 02770 45480 |
| 17 | 330 45493 24304 91869 | 7541 82726 44336 01776 |
| 18 | 769 80855 95531 27523 | 20099 11469 67922 92798 |
| 19 | 1699 44651 11795 75730 | 50121 64851 93642 66195 |
| 20 | 3581 61999 19023 50970 | 1 18099 50896 65472 95395 |
| 21 | 7248 48443 53265 43591 | 2 64945 92863 45436 85165 |
| 22 | 14154 06633 53193 03393 | 5 69382 27491 82585 15987 |
| 23 | 26772 53709 99329 41856 | 11 78007 12733 69885 61886 |
| 24 | 49215 21601 60137 47700 | 23 55998 75973 40380 03550 |
| 25 | 88169 24129 50869 68775 | 45 70683 48045 46566 50050 |
| 26 | 1 54302 27753 24521 76985 | 86 26468 58002 86572 13700 |
| 27 | 2 64333 26415 24349 50330 | 158 78675 62405 39095 31995 |
| 28 | 4 44043 18002 41713 37610 | 285 66672 30337 07871 47835 |
| 29 | 7 32597 23944 82552 06025 | 503 24788 12455 51826 90725 |

| n | $-{}^{21}P_n^{n-11}$ | ${}^{21}P_n^{n-12}$ |
|-----|-------------------------|-------------------------|
| 11 | 3 37984 78633 92000 | |
| 12 | 49 83307 58926 42560 | 108 15513 16285 44000 |
| 13 | 396 55811 39825 97216 | 1752 64663 60857 48480 |
| 14 | 2257 75506 60012 34800 | 15235 62251 14940 53824 |
| 15 | 10294 54914 95309 73600 | 94257 04982 15372 71824 |

| n | $-{}^{21}P_n^{n-11}$ | ${}^{21}P_n^{n-12}$ |
|-----|------------------------------------|-------------------------------------|
| 16 | 39924 45774 62681 93280 | 4 64860 81920 46523 21424 |
| 17 | 1 36661 21564 65188 76040 | 19 42065 75581 65754 72784 |
| 18 | 4 23250 65169 49957 43528 | 71 35191 95038 42927 62304 |
| 19 | 12 07116 12486 98951 62650 | 236 41967 36648 91267 59896 |
| 20 | 32 11982 06564 44658 10450 | 719 26612 36128 49332 65896 |
| 21 | 80 54061 93327 29049 21645 | 2036 17877 05270 80314 94346 |
| 22 | 191 81790 93592 37396 98575 | 5418 88478 25017 00382 03436 |
| 23 | 436 65228 75740 88558 86016 | 13667 05488 49489 08452 42161 |
| 24 | 954 97542 36023 63526 09000 | 32879 75553 82088 05042 26865 |
| 25 | 2015 17486 54826 80627 68750 | 75853 64960 03151 63716 31865 |
| 26 | 4117 68926 64918 22686 71050 | 1 68551 69341 25184 72589 94365 |
| 27 | 8172 12949 91052 91577 14950 | 3 62083 08893 76341 38865 33715 |
| 28 | 15793 89379 86511 68152 50710 | 7 54345 30489 46881 34568 51315 |
| 29 | 29791 56322 73028 53854 94625 | 15 28246 10102 85953 74041 36105 |
| n | $-{}^{21}P_n^{n-13}$ | ${}^{21}P_n^{n-14}$ |
| 13 | 3569 11934 37419 52000 | |
| 14 | 63159 10497 06574 00320 | 1 21350 05768 72263 68000 |
| 15 | 5 96405 89287 29492 84160 | 23 31918 73166 02353 79200 |
| 16 | 39 89659 68644 82910 69824 | 238 02530 87508 64096 08960 |
| 17 | 211 89509 99702 04269 62512 | 1714 19939 27367 31791 92448 |
| 18 | 949 88008 71805 02949 28304 | 9766 21319 16044 94037 67904 |
| 19 | 3732 60494 78303 77126 58160 | 46811 53659 16441 09059 71760 |
| 20 | 13189 39189 44260 27830 54000 | 1 96115 73450 48591 94122 98160 |
| 21 | 42679 30296 25528 50469 55736 | 7 36880 80217 63263 35175 12160 |
| 22 | 1 28198 81132 46902 23697 18268 | 25 29411 52660 35460 54896 53072 |
| 23 | 3 61210 85697 22633 40124 66016 | 80 41960 41356 52256 73875 38596 |
| 24 | 9 62561 27191 00153 12031 21100 | 239 35238 12034 48126 39360 43300 |
| 25 | 24 42150 27112 94115 38933 30025 | 672 50495 35629 55016 80764 92800 |
| 26 | 59 31418 15274 39090 69883 95815 | 1795 89407 82824 84324 71696 73950 |
| 27 | 138 53347 74313 22772 81611 30970 | 4583 66061 00721 21587 56242 77255 |
| 28 | 312 33336 01213 87159 47147 49290 | 11233 26752 67756 14682 73585 63815 |
| 29 | 681 96255 95197 84345 41004 63725 | 26537 60217 27235 85496 83812 79025 |
| n | $-{}^{21}P_n^{n-15}$ | |
| 15 | 42 47252 01905 29228 80000 | |
| 16 | 881 96326 35882 13965 31200 | |
| 17 | 9688 89968 73701 85520 62720 | |
| 18 | 74828 47661 13659 93613 75744 | |
| 19 | 4 55710 79108 39412 61083 24000 | |
| 20 | 23 28172 25474 97056 23471 94400 | |
| 21 | 103 68917 36944 89325 82514 18960 | |
| 22 | 413 17911 06085 46386 59869 29680 | |
| 23 | 1500 82606 70480 71190 20420 11776 | |
| 24 | 5039 28864 90167 70486 70937 10000 | |

| n | $-{}^{21}P_n^{n-15}$ |
|-----|--|
| 25 | 15810 14580 31719 36174 42156 58500 |
| 26 | 46745 37366 70678 66947 57343 27300 |
| 27 | 1 31152 39534 63446 30209 27090 02950 |
| 28 | 3 51168 10462 98064 66412 26743 11190 |
| 29 | 9 01598 21344 18115 85866 32439 38125 |
| n | ${}^{21}P_n^{n-16}$ |
| 16 | 1529 01072 68590 52236 80000 |
| 17 | 34161 65147 96229 68953 34400 |
| 18 | 4 02339 83959 96900 18737 17760 |
| 19 | 33 20650 42744 29637 69673 71776 |
| 20 | 215 49082 07080 06142 13003 31776 |
| 21 | 1170 04144 51553 85447 75353 02176 |
| 22 | 5524 98674 03239 37132 40948 98496 |
| 23 | 23291 68849 64914 31756 15328 74736 |
| 24 | 89328 03544 66065 64125 13813 92880 |
| 25 | 3 16096 02465 23612 36027 05983 42880 |
| 26 | 10 43362 73159 82703 00050 45186 33880 |
| 27 | 32 40395 29395 04600 46586 40320 16980 |
| 28 | 95 35710 27057 50022 96631 40641 58580 |
| 29 | 267 42947 39743 55191 50832 51054 06890 |
| n | $-{}^{21}P_n^{n-17}$ |
| 17 | 56573 39689 37849 32761 60000 |
| 18 | 13 54716 15311 94577 52988 67200 |
| 19 | 170 45969 89750 73684 83738 59840 |
| 20 | 1498 71986 99522 59192 70687 30880 |
| 21 | 10333 84351 89805 11020 03823 33696 |
| 22 | 59475 58421 55066 99825 68650 25088 |
| 23 | 2 97050 01404 94359 96519 29456 60416 |
| 24 | 13 21884 30789 50589 93790 03921 48800 |
| 25 | 53 41645 90299 23543 79421 25548 28400 |
| 26 | 198 82063 03700 09712 36666 00786 00880 |
| 27 | 689 20111 42211 96753 39037 24543 93240 |
| 28 | 2244 59085 53174 17575 75184 59912 08280 |
| 29 | 6917 08888 78991 68701 10123 51349 78700 |
| n | ${}^{21}P_n^{n-18}$ |
| 18 | 21 49789 08196 38274 44940 80000 |
| 19 | 549 83719 05362 26798 11499 00800 |
| 20 | 7368 22514 95391 74191 61042 94400 |
| 21 | 68815 73981 75818 01092 59222 60480 |
| 22 | 5 02837 16761 47632 63934 19802 75712 |
| 23 | 30 60287 28888 15513 56438 71763 54496 |

| n | ${}^{21}P_n^{n-18}$ |
|-----|--|
| 24 | 161 30487 90705 67352 03287 67854 12800 |
| 25 | 756 15281 76233 43899 23839 44321 08800 |
| 26 | 3213 30993 29998 26913 77217 19542 15200 |
| 27 | 12557 87956 03902 83395 00519 56484 56560 |
| 28 | 45639 53304 30077 27557 74307 34593 32080 |
| 29 | 1 55624 48495 35611 88769 58352 70285 37800 |
| n | $-{}^{21}P_n^{n-19}$ |
| 19 | 838 41774 19658 92703 52691 20000 |
| 20 | 22831 90536 34149 64628 12651 52000 |
| 21 | 3 24929 13649 45211 06484 15412 22400 |
| 22 | 32 15190 20883 29567 52373 02761 62560 |
| 23 | 248 37188 41626 77771 01543 54280 18176 |
| 24 | 1594 89829 12705 60367 84847 11876 16000 |
| 25 | 8853 61784 94460 91209 32792 65311 92000 |
| 26 | 43636 64746 01199 10574 29407 04081 96800 |
| 27 | 1 94662 21431 11117 75521 58615 22563 11200 |
| 28 | 7 97440 43320 98453 78481 83354 33822 26080 |
| 29 | 30 33777 55231 72240 28811 24614 28894 98000 |
| n | ${}^{21}P_n^{n-20}$ |
| 20 | 33536 70967 86357 08141 07648 00000 |
| 21 | 9 69644 82957 86492 57894 26360 32000 |
| 22 | 146 16668 56234 85357 30228 73673 72800 |
| 23 | 1528 69847 54216 56760 82268 92423 62880 |
| 24 | 12457 06137 85794 78685 50184 80751 62624 |
| 25 | 84227 48448 57546 95238 68305 15178 82624 |
| 26 | 4 91493 90556 02748 90867 76767 19527 14624 |
| 27 | 25 42416 33618 59106 87859 58898 11379 64224 |
| 28 | 118 86202 62311 92759 12895 72428 94409 01824 |
| 29 | 509 60783 85040 16994 58505 66591 51699 79744 |
| n | $-{}^{21}P_n^{n-21}$ |
| 21 | 13 75005 09682 40640 33784 13568 00000 |
| 22 | 421 00087 93912 73328 65343 20701 44000 |
| 23 | 6706 16836 12011 43692 65178 88671 74400 |
| 24 | 73968 90127 97540 41168 85011 55311 41120 |
| 25 | 6 34536 66331 58305 82016 43327 89134 59200 |
| 26 | 45 09000 94966 05465 62995 85364 87360 59904 |
| 27 | 276 09214 51099 34664 33780 93423 05136 47232 |
| 28 | 1496 45198 64791 71794 51041 20532 51359 29984 |
| 29 | 7320 69127 18076 16991 82931 69550 77401 19360 |

| n | ${}^{21}P_n^{n-22}$ |
|-----|---|
| 22 | 577 50214 06661 06894 18933 69856 00000 |
| 23 | 18680 53995 44908 60026 28691 60017 92000 |
| 24 | 3 13751 94784 73411 82502 96562 61574 65600 |
| 25 | 36 42352 50543 62730 35101 22082 50588 16000 |
| 26 | 328 31039 01796 44798 07857 15165 50779 39200 |
| 27 | 2447 54083 65201 01682 68662 27314 56727 54688 |
| 28 | 13699 96380 17969 65570 90147 11621 03278 21824 |
| 29 | 89026 11113 92763 83501 91166 17714 19883 91040 |

| n | $-{}^{21}P_n^{n-23}$ |
|-----|---|
| 23 | 24832 59204 86425 96450 14149 03808 00000 |
| 24 | 8 46776 35004 62404 37606 76579 44596 48000 |
| 25 | 149 65614 00317 65936 50240 21897 15456 00000 |
| 26 | 1825 13829 25324 51532 64896 37692 42511 36000 |
| 27 | 17255 72663 09757 57042 34182 50471 29142 78400 |
| 28 | 1 34737 68678 39406 37811 29971 61570 52065 03424 |
| 29 | 9 04035 91307 19919 50785 47180 31001 12697 72800 |

| n | ${}^{21}P_n^{n-24}$ |
|-----|--|
| 24 | 10 92634 05014 02742 43806 22557 67552 00000 |
| 25 | 391 97569 80222 10939 36110 68632 74393 60000 |
| 26 | 7276 15813 94834 44018 47160 75901 85369 60000 |
| 27 | 93057 65788 85086 66052 97290 47445 83403 52000 |
| 28 | 9 21332 53617 53450 04085 38050 70067 82257 15200 |
| 29 | 75 23479 18858 84362 56839 06659 87023 33443 82976 |

| n | $-{}^{21}P_n^{n-25}$ |
|-----|---|
| 25 | 491 68532 25631 23409 71280 15095 39840 00000 |
| 26 | 18522 56743 15848 26620 32371 72201 61945 60000 |
| 27 | 3 60501 99998 73066 95488 48927 39588 74316 80000 |
| 28 | 48 27269 57863 57226 66031 18870 16988 77685 76000 |
| 29 | 499 72563 85122 76278 66214 83354 50312 08286 20800 |

| n | ${}^{21}P_n^{n-26}$ |
|-----|--|
| 26 | 22617 52483 79036 76846 78886 94388 32640 00000 |
| 27 | 8 93178 19412 23905 28002 00357 87864 44083 20000 |
| 28 | 181 97274 19351 31119 11449 48872 88124 11289 60000 |
| 29 | 2547 33483 54666 35225 46977 73511 20574 17891 84000 |

| n | $-{}^{21}\mathbf{P}_n^{n-27}$ |
|-----|---|
| 27 | 10 63023 66738 14728 11799 07686 36251 34080 00000 |
| 28 | 439 35576 98525 62181 55895 24864 53744 50073 60000 |
| 29. | 9356 02012 46739 87018 16920 19635 71826 03264 00000 |
| n | ${}^{21}\mathbf{P}_n^{n-28}$ |
| 28 | 510 25136 03431 06949 66355 68945 40064 35840 00000 |
| 29 | 22038 68408 31186 53846 05222 87307 73544 89446 40000 |
| n | $-{}^{21}\mathbf{P}_n^{n-29}$ |
| 29 | 25002 31665 68122 40533 51428 78324 63153 56160 00000 |

TABLEAUX ${}^{22}P_n^r$

| n | $-{}^{22}P_n^{n-1}$ | ${}^{22}P_n^{n-2}$ | $-{}^{22}P_n^{n-3}$ | ${}^{22}P_n^{n-4}$ | $-{}^{22}P_n^{n-5}$ |
|-----|---------------------|--------------------|---------------------|--------------------|---------------------|
| 1 | 22 | | | | |
| 2 | 45 | 506 | | | |
| 3 | 69 | 1586 | 12144 | | |
| 4 | 94 | 3311 | 51794 | 3 03600 | |
| 5 | 120 | 5755 | 1 37880 | 16 50244 | 78 93600 |
| 6 | 147 | 8995 | 2 93265 | 53 73004 | 524 50188 |
| 7 | 175 | 13111 | 5 45125 | 135 84424 | 2028 94300 |
| 8 | 204 | 18186 | 9 25344 | 293 93049 | 5968 42596 |
| 9 | 234 | 24306 | 14 70924 | 571 53369 | 14786 34066 |
| 10 | 265 | 31560 | 22 24410 | 1027 52013 | 32503 88505 |
| 11 | 297 | 40040 | 32 34330 | 1739 33133 | 65384 52921 |
| 12 | 330 | 49841 | 45 55650 | 2806 66023 | 1 22782 46310 |
| 13 | 364 | 61061 | 62 50244 | 4355 58123 | 2 18208 91092 |
| 14 | 399 | 73801 | 83 87379 | 6543 16663 | 3 70654 25397 |
| 15 | 435 | 88165 | 110 44215 | 9562 62307 | 6 06208 25265 |
| 16 | 472 | 1 04260 | 143 06320 | 13648 98262 | 9 60025 30624 |
| 17 | 510 | 1 22196 | 182 68200 | 19085 38422 | 14 78686 64580 |
| 18 | 549 | 1 42086 | 230 33844 | 26209 98222 | 22 23016 63038 |
| 19 | 589 | 1 64046 | 287 17284 | 35423 51982 | 32 71415 91918 |
| 20 | 630 | 1 88195 | 354 43170 | 47197 60626 | 47 23780 23180 |
| 21 | 672 | 2 14655 | 433 47360 | 62083 73766 | 67 06079 69472 |
| 22 | 715 | 2 43551 | 525 77525 | 80723 10246 | 93 75680 41410 |
| 23 | 759 | 2 75011 | 632 93769 | 1 03857 21346 | 129 27496 92234 |
| 24 | 804 | 3 09166 | 756 69264 | 1 32339 40951 | 176 01071 52804 |
| 25 | 850 | 3 46150 | 898 90900 | 1 67147 27095 | 236 88684 36550 |
| 26 | 897 | 3 86100 | 1061 59950 | 2 09395 99395 | 315 44606 10015 |
| 27 | 945 | 4 29156 | 1246 92750 | 2 60352 76995 | 415 95613 80975 |
| 28 | 994 | 4 75461 | 1457 21394 | 3 21452 21745 | 543 52899 53730 |

| n | ${}^{22}P_n^{n-6}$ | $-{}^{22}P_n^{n-7}$ | ${}^{22}P_n^{n-8}$ |
|-----|--------------------|---------------------|---------------------|
| 6 | 2131 27200 | | |
| 7 | 16817 32464 | 59675 61600 | |
| 8 | 75656 67164 | 5 47378 03056 | 17 30592 86400 |
| 9 | 2 54709 45044 | 28 17078 17976 | 181 51933 78080 |
| 10 | 7 13086 01090 | 107 13071 14340 | 1054 81357 35336 |
| 11 | 17 53210 33250 | 335 31823 49220 | 4482 99633 94216 |
| 12 | 39 10899 79643 | 913 87764 46470 | 15548 49809 18476 |
| 13 | 80 85503 54183 | 2243 58357 54332 | 46620 33800 98456 |
| 14 | 157 22815 42403 | 5073 50981 50737 | 1 25145 76315 00076 |
| 15 | 290 66368 56695 | 10733 72336 77245 | 3 07792 11649 26608 |
| 16 | 514 96073 91500 | 21488 27973 74960 | 7 04939 88109 84673 |

| n | $^{22}P_n^{n-6}$ | $-^{22}P_n^{n-7}$ | $^{22}P_n^{n-8}$ |
|-----|-------------------|----------------------|------------------------|
| 17 | 879 77035 55212 | 41056 78782 51960 | 15 21494 51112 33153 |
| 18 | 1456 45814 73832 | 75367 83169 05228 | 31 22709 23630 59593 |
| 19 | 2345 66479 95352 | 1 33626 15758 58508 | 61 37422 50392 68713 |
| 20 | 3686 94532 63990 | 2 29798 41436 67940 | 116 16094 96494 67541 |
| 21 | 5670 93302 37550 | 3 84650 11807 55520 | 212 67628 36835 21021 |
| 22 | 8554 54729 24846 | 6 28500 23809 70170 | 378 07583 44560 08381 |
| 23 | 12679 84667 46886 | 10 04900 31896 63394 | 654 61593 92186 95861 |
| 24 | 18497 22028 97416 | 15 75493 41932 73264 | 1106 82108 27535 48591 |
| 25 | 26593 71319 26400 | 24 26365 55265 54400 | 1831 54805 56441 18735 |
| 26 | 37727 39484 44250 | 36 76270 07270 95200 | 2971 93986 53921 75535 |
| 27 | 52868 80577 24970 | 54 87185 02524 19200 | 4736 54950 02927 45135 |
| 28 | 73250 65653 92745 | 80 77756 50809 42730 | 7425 27016 26612 85935 |

| n | $-^{22}P_n^{n-9}$ | $^{22}P_n^{n-10}$ |
|-----|---------------------------|-----------------------------|
| 9 | 519 17785 92000 | |
| 10 | 6146 27733 12480 | 16094 51363 52000 |
| 11 | 39900 31168 43232 | 2 12775 38823 51360 |
| 12 | 1 87839 19088 52360 | 15 29485 67381 78016 |
| 13 | 7 16488 12600 80544 | 79 16018 16391 58256 |
| 14 | 23 48199 95635 26504 | 329 93102 57419 77296 |
| 15 | 68 53447 42975 29240 | 1175 28301 00289 31440 |
| 16 | 182 41755 73998 13736 | 3711 05855 90375 13320 |
| 17 | 450 29471 22172 31310 | 10642 92574 02304 35288 |
| 18 | 1043 67757 15553 24277 | 28204 41951 67024 56378 |
| 19 | 2292 76126 60777 07997 | 69951 52237 89154 27458 |
| 20 | 4809 10449 26877 25230 | 1 63954 73428 81014 55335 |
| 21 | 9687 86437 79653 61952 | 3 65937 12298 09859 14995 |
| 22 | 18832 94457 63567 65855 | 7 82515 29123 34964 78931 |
| 23 | 35468 28129 24211 34619 | 16 11164 85259 31941 76551 |
| 24 | 64925 99855 72624 48364 | 32 07237 51075 21452 34406 |
| 25 | 1 15839 76836 39256 83550 | 61 93833 44438 62178 59150 |
| 26 | 2 01922 52697 91992 64095 | 116 38302 55749 07249 86000 |
| 27 | 3 44575 64051 80236 89775 | 213 30583 85249 22896 62560 |
| 28 | 5 76666 56603 23682 01390 | 382 14790 23787 54504 61535 |

| n | $-^{22}P_n^{n-11}$ | $^{22}P_n^{n-12}$ |
|-----|----------------------------|------------------------------|
| 11 | 5 15024 43632 64000 | |
| 12 | 75 36612 24808 58880 | 169 95806 39877 12000 |
| 13 | 595 39125 15789 11424 | 2732 40622 83369 13920 |
| 14 | 3365 99760 89494 50384 | 23571 10003 35988 13760 |
| 15 | 15243 51453 56606 33040 | 1 44747 01395 57790 27584 |
| 16 | 58728 98590 67310 96320 | 7 08757 05177 52224 50064 |
| 17 | 1 99749 21115 01566 02480 | 29 40458 51623 10041 10224 |
| 18 | 6 14823 31501 91435 78712 | 107 30677 75108 71116 06944 |
| 19 | 17 43000 09568 72418 33832 | 353 23610 35185 28547 55424 |
| 20 | 46 11012 51322 27743 59610 | 1067 86614 27502 97699 42536 |

| n | $-{}^{22}\mathbf{P}_n^{n-11}$ | ${}^{22}\mathbf{P}_n^{n-12}$ |
|-----|-------------------------------|----------------------------------|
| 21 | 114 97111 35332 30354 83680 | 3004 49139 83038 62930 46156 |
| 22 | 272 32407 64150 54298 28465 | 7948 24928 02327 68188 44396 |
| 23 | 616 63080 45577 92749 01429 | 19930 50864 24951 57312 96856 |
| 24 | 1341 65498 82247 30128 46224 | 47678 89484 75958 31018 61161 |
| 25 | 2816 98424 31707 16936 28900 | 1 09395 02430 59334 16927 87465 |
| 26 | 5728 08596 20322 39330 08950 | 2 41793 28373 49571 12933 45765 |
| 27 | 11314 47118 96277 87323 36950 | 5 16741 40991 25046 00777 75365 |
| 28 | 21766 45727 73490 09258 02390 | 10 71150 49820 42661 79622 85915 |

| n | $-{}^{22}\mathbf{P}_n^{n-13}$ | ${}^{22}\mathbf{P}_n^{n-14}$ |
|-----|-----------------------------------|-------------------------------------|
| 13 | 5778 57417 55822 08000 | |
| 14 | 1 01412 79216 73741 95200 | 2 02250 09614 53772 80000 |
| 15 | 9 49972 39337 69314 90560 | 38 53110 61417 08483 07200 |
| 16 | 63 05611 90974 07555 11168 | 390 02089 16911 73134 57920 |
| 17 | 332 38379 87719 92086 13600 | 2786 15341 73926 60228 82304 |
| 18 | 1479 16262 01020 83689 12336 | 15749 12156 95003 51588 12704 |
| 19 | 5771 43372 05369 28331 90096 | 74915 62637 35836 99153 06144 |
| 20 | 20254 11396 47965 98781 62480 | 3 11544 40891 55977 60761 00080 |
| 21 | 65104 49196 03091 02157 48992 | 11 62217 19543 70549 09589 24240 |
| 22 | 1 94297 62208 73752 08167 33700 | 39 61710 34973 03463 02361 30896 |
| 23 | 5 44020 59041 76170 08458 87124 | 125 10805 72157 48554 61724 13696 |
| 24 | 14 40893 47932 98990 87542 45644 | 369 91732 29036 76208 42373 34276 |
| 25 | 36 34122 64231 93073 14398 59050 | 1032 72832 33954 29788 69326 33900 |
| 26 | 87 75688 78469 81779 10008 69905 | 2740 76596 52855 04226 46060 09250 |
| 27 | 203 81766 40397 61193 30814 66625 | 6953 09658 19406 29623 26477 64690 |
| 28 | 457 02095 48968 88447 68924 59510 | 16940 16211 98889 28095 36396 29315 |

| n | $-{}^{22}\mathbf{P}_n^{n-15}$ |
|-----|---------------------------------------|
| 15 | 72 81003 46123 35820 80000 |
| 16 | 1498 46096 18555 49694 46400 |
| 17 | 16319 25484 61201 28808 47360 |
| 18 | 1 24979 23812 44338 77732 57216 |
| 19 | 7 54944 10090 44479 41257 65376 |
| 20 | 38 26484 78222 13796 06533 17280 |
| 21 | 169 11349 95667 64855 58495 20640 |
| 22 | 668 86689 36046 98466 70832 62960 |
| 23 | 2412 01944 74860 50839 74730 22384 |
| 24 | 8041 88202 21947 35797 52316 38704 |
| 25 | 25058 07887 57638 41385 01490 15400 |
| 26 | 73596 31007 53490 41453 59828 08700 |
| 27 | 2 05153 07640 90532 44323 70712 52700 |
| 28 | 5 45854 80892 41440 95863 68117 22510 |

| n | ${}^{22}P_n^{n-16}$ |
|-----|---|
| 16 | 2693 97128 06564 25369 60000 |
| 17 | 59635 48783 11673 13759 23200 |
| 18 | 6 96086 42682 98523 37289 70240 |
| 19 | 56 95255 95180 72074 46592 58880 |
| 20 | 366 47964 08888 95730 38156 39296 |
| 21 | 1973 60324 94218 75165 12549 65056 |
| 22 | 9245 48373 07927 63955 27843 52576 |
| 23 | 38675 62704 93994 96490 44479 22816 |
| 24 | 1 47216 50218 62717 84279 07339 30096 |
| 25 | 5 17143 07520 72296 30965 13893 10480 |
| 26 | 16 94872 78236 81301 76060 83930 34280 |
| 27 | 52 27495 66598 48841 65833 55678 51880 |
| 28 | 152 79996 41002 84931 37695 20592 34180 |

| n | $-{}^{22}P_n^{n-17}$ |
|-----|--|
| 17 | 1 02370 90866 49441 64044 80000 |
| 18 | 24 28154 93408 04694 00654 84800 |
| 19 | 302 71612 00727 45628 92242 94400 |
| 20 | 2637 77106 03137 00682 02539 08480 |
| 21 | 18029 91597 76473 21358 05107 58912 |
| 22 | 1 02894 85570 27879 53458 44742 56320 |
| 23 | 5 09696 13985 76695 67490 69857 69664 |
| 24 | 22 50099 35708 06469 09560 71422 96384 |
| 25 | 90 22058 45764 91489 86398 09030 80800 |
| 26 | 333 27782 99238 89416 41759 62006 73360 |
| 27 | 1146 81676 54605 91900 92679 90663 18800 |
| 28 | 3708 28964 17931 85142 18524 18910 60920 |

| n | ${}^{22}P_n^{n-18}$ |
|-----|---|
| 18 | 39 92465 43793 28223 97747 20000 |
| 19 | 1011 18662 80115 15984 23941 12000 |
| 20 | 13422 54755 09940 86770 05901 82400 |
| 21 | 1 24208 93208 41695 15415 12543 38560 |
| 22 | 8 99495 31912 30043 33811 32169 71776 |
| 23 | 54 26868 97004 56742 85983 00842 49856 |
| 24 | 283 63195 26364 08048 23064 44438 84736 |
| 25 | 1318 67765 68935 05626 62857 29895 18400 |
| 26 | 5559 04513 19886 05650 23567 54343 16000 |
| 27 | 21556 38096 83352 97638 28029 30666 37280 |
| 28 | 77750 40247 59043 00783 69344 73162 58480 |

| n | $-{}^{22}P_n^{n-19}$ |
|-----|------------------------------------|
| 19 | 1596 98617 51731 28959 09888 00000 |

| n | $-^{22}P_n^{n-19}$ |
|-----|--|
| 20 | 43055 63792 36452 84312 91473 92000 |
| 21 | 6 06802 63506 53969 28655 39350 52800 |
| 22 | 59 47786 71468 46860 91505 78716 10880 |
| 23 | 455 25580 75609 68767 79203 94183 69024 |
| 24 | 2897 34684 40815 22196 48439 32096 12544 |
| 25 | 15944 41666 53562 92415 09403 76283 10400 |
| 26 | 77922 26653 93510 56866 63696 81356 75200 |
| 27 | 3 44756 43287 48041 28077 94938 89828 43200 |
| 28 | 14 01019 10032 32337 12353 68374 92480 69920 |

| n | $^{22}P_n^{n-20}$ |
|-----|---|
| 20 | 65476 43318 20982 87323 05408 00000 |
| 21 | 18 73813 22597 52002 28465 47312 64000 |
| 22 | 279 66326 53378 72681 60647 39385 34400 |
| 23 | 2896 68941 97991 34561 86902 02894 13120 |
| 24 | 23383 20076 00427 29112 51079 41160 19200 |
| 25 | 1 56661 15558 77927 50150 79288 17581 96224 |
| 26 | 9 06048 73885 95384 93660 21265 02887 85024 |
| 27 | 46 46317 53274 83892 23258 78712 08011 94624 |
| 28 | 215 39382 74361 37914 99078 30718 09605 11424 |

| n | $-^{22}P_n^{n-21}$ |
|-----|--|
| 21 | 27 50010 19364 81280 67568 27136 00000 |
| 22 | 833 23978 91058 17378 91583 61579 52000 |
| 23 | 13138 42346 39722 15369 60068 94534 65600 |
| 24 | 1 43489 44735 49332 70653 70660 24770 56000 |
| 25 | 12 19116 68231 68988 09829 20313 18139 39200 |
| 26 | 85 82190 99494 31580 66916 46857 44491 61728 |
| 27 | 520 72530 46020 10057 62606 67578 83108 42880 |
| 28 | 2797 42089 56487 20777 02287 24470 75693 79456 |

| n | $^{22}P_n^{n-22}$ |
|-----|---|
| 22 | 1182 50438 32686 95069 05435 66848 00000 |
| 23 | 37845 05510 39246 59741 35114 76346 88000 |
| 24 | 6 29074 11098 26743 51373 38217 30406 40000 |
| 25 | 72 29588 68930 96048 01443 88588 69852 16000 |
| 26 | 645 28072 75820 38488 63416 43308 22403 58400 |
| 27 | 4764 73240 51547 54360 75406 92465 58001 21344 |
| 28 | 30280 27233 06532 47184 43134 03828 30314 22464 |

| n | $-{}^{22}P_n^{n-23}$ |
|-----|--|
| 23 | 52030 19286 38225 83038 39169 41312 00000 |
| 24 | 17 55057 67254 04322 71399 19333 76921 60000 |
| 25 | 306 92466 77774 34524 34574 77329 75616 00000 |
| 26 | 3704 83135 17529 48781 02437 40998 58667 52000 |
| 27 | 34678 30627 56907 96235 46426 19793 34039 55200 |
| 28 | 2 68150 19412 82737 59912 41365 50606 76099 01056 |
| n | ${}^{22}P_n^{n-24}$ |
| 24 | 23 41358 67887 20162 36727 62623 59040 00000 |
| 25 | 830 74011 61573 19007 21090 51976 97433 60000 |
| 26 | 15256 19950 16967 41651 46104 86475 51385 60000 |
| 27 | 1 93088 10438 58382 83140 63100 54407 67426 56000 |
| 28 | 18 92325 11189 46872 98678 37984 24281 35364 60800 |
| n | $-{}^{22}P_n^{n-25}$ |
| 25 | 1077 02499 22811 27468 89470 80685 15840 00000 |
| 26 | 40121 81045 16751 20807 80725 23602 95219 20000 |
| 27 | 7 72419 38653 31187 20077 93758 74427 61728 00000 |
| 28 | 102 33736 50143 91945 93968 85685 40403 65629 44000 |
| n | ${}^{22}P_n^{n-26}$ |
| 26 | 50620 17463 72129 91038 05127 92202 44480 00000 |
| 27 | 19 76467 07631 76187 89812 79939 25144 15001 60000 |
| 28 | 398 25017 01644 04360 73631 74117 72097 39673 60000 |
| n | $-{}^{22}P_n^{n-27}$ |
| 27 | 24 29768 38258 62235 69826 46140 25717 35040 00000 |
| 28 | 992 76655 12214 95442 70653 63163 57780 70118 40000 |
| n | ${}^{22}P_n^{n-28}$ |
| 28 | 1190 58650 74672 49549 21496 60872 60150 16960 00000 |

TABLEAUX ${}^{23}P_n^r$

| n | $-{}^{23}P_n^{n-1}$ | ${}^{23}P_n^{n-2}$ | $-{}^{23}P_n^{n-3}$ | ${}^{23}P_n^{n-4}$ | $-{}^{23}P_n^{n-5}$ |
|-----|---------------------|---------------------|---------------------|----------------------|---------------------|
| 1 | 23 | | | | |
| 2 | 47 | 552 | | | |
| 3 | 72 | 1727 | 13800 | | |
| 4 | 98 | 3599 | 58702 | 3 58800 | |
| 5 | 125 | 6245 | 1 55875 | 19 43754 | 96 87600 |
| 6 | 153 | 9745 | 3 30735 | 63 08254 | 641 12712 |
| 7 | 182 | 14182 | 6 13340 | 158 99569 | 2470 52078 |
| 8 | 212 | 19642 | 10 38800 | 342 99769 | 7240 39148 |
| 9 | 243 | 26214 | 16 47702 | 665 02569 | 17873 31987 |
| 10 | 275 | 33990 | 24 86550 | 1192 29033 | 39154 14195 |
| 11 | 308 | 43065 | 36 08220 | 2012 85183 | 78499 72284 |
| 12 | 342 | 53537 | 50 72430 | 3239 64663 | 1 46936 68506 |
| 13 | 377 | 65507 | 69 46225 | 5014 99713 | 2 60324 31711 |
| 14 | 413 | 79079 | 93 04477 | 7515 63813 | 4 40864 21379 |
| 15 | 450 | 94360 | 122 30400 | 10958 29462 | 7 18942 82460 |
| 16 | 488 | 1 11460 | 158 16080 | 15605 84662 | 11 35358 02016 |
| 17 | 527 | 1 30492 | 201 63020 | 21774 11782 | 17 43986 03834 |
| 18 | 567 | 1 51572 | 253 82700 | 29839 32582 | 26 14950 75114 |
| 19 | 608 | 1 74819 | 315 97152 | 40246 23282 | 38 38363 10976 |
| 20 | 650 | 2 00355 | 389 39550 | 53517 03666 | 55 28704 88820 |
| 21 | 693 | 2 28305 | 475 54815 | 70261 04316 | 78 29937 46458 |
| 22 | 737 | 2 58797 | 576 00235 | 91185 16176 | 109 21423 36362 |
| 23 | 782 | 2 91962 | 692 46100 | 1 17105 26751 | 150 24755 64282 |
| 24 | 828 | 3 27934 | 826 76352 | 1 48958 47351 | 204 11597 94828 |
| 25 | 875 | 3 66850 | 980 89250 | 1 87816 35895 | 274 12646 20325 |
| 26 | 923 | 4 08850 | 1156 98050 | 2 34899 19895 | 364 27831 43285 |
| 27 | 972 | 4 54077 | 1357 31700 | 2 91591 24345 | 479 37892 18140 |
| n | ${}^{23}P_n^{n-6}$ | $-{}^{23}P_n^{n-7}$ | ${}^{23}P_n^{n-8}$ | | |
| 6 | | 2712 52800 | | | |
| 7 | | 21305 21448 | 78663 31200 | | |
| 8 | | 95420 83788 | 7 17819 74640 | 23 59899 36000 | |
| 9 | 3 | 19872 97376 | 36 75865 72068 | 246 12311 49840 | |
| 10 | 8 | 91819 20960 | 139 11800 88100 | 1422 40014 56016 | |
| 11 | 21 | 83905 89395 | 433 41834 79780 | 6013 29443 63316 | |
| 12 | 48 | 52896 47051 | 1175 94635 19210 | 20749 51826 75836 | |
| 13 | 99 | 95680 44761 | 2874 46011 65995 | 61907 64058 48186 | |
| 14 | 193 | 67355 86357 | 6472 90507 77391 | 1 65388 20478 24006 | |
| 15 | 356 | 79331 77380 | 13638 82674 72600 | 4 04885 69265 87473 | |
| 16 | 629 | 99159 10860 | 27196 97282 13040 | 9 23161 10905 46273 | |
| 17 | 1072 | 78121 89484 | 51766 64487 36580 | 19 83843 04908 54833 | |

| n | ${}^{23}P_n^{n-6}$ | $-{}^{23}P_n^{n-7}$ | ${}^{23}P_n^{n-8}$ |
|-----|--------------------|----------------------|------------------------|
| 18 | 1770 37563 42844 | 94677 89363 15940 | 40 54508 84403 18033 |
| 19 | 2842 50544 22518 | 1 67263 29463 72544 | 79 36302 48292 71573 |
| 20 | 4454 61794 83510 | 2 86648 52321 18300 | 149 61360 85769 18421 |
| 21 | 6831 96105 02770 | 4 78197 09499 09230 | 272 87247 35580 05321 |
| 22 | 10277 13353 46922 | 7 78803 38120 31110 | 483 27919 53540 11441 |
| 23 | 15191 77404 83212 | 12 41274 39026 42600 | 833 74071 68954 11391 |
| 24 | 22103 16164 40184 | 19 40095 99648 70352 | 1404 72693 64169 70991 |
| 25 | 31696 61267 97100 | 29 78944 59375 59000 | 2316 57205 47658 77535 |
| 26 | 44854 68285 72700 | 45 00382 00238 19800 | 3746 46545 97687 09535 |
| 27 | 62704 32025 93665 | 66 98261 46238 82100 | 5951 65264 09358 79735 |

| n | ${}^{23}P_n^{n-9}$ | ${}^{23}P_n^{n-10}$ |
|-----|---------------------------|-----------------------------|
| 9 | 731 56880 16000 | |
| 10 | 8607 50848 10880 | 23410 20165 12000 |
| 11 | 55546 71328 59408 | 3 07457 98152 71040 |
| 12 | 2 59998 72412 12152 | 21 96046 23324 90912 |
| 13 | 9 86231 86348 66412 | 112 96001 57749 16232 |
| 14 | 32 14906 92454 01108 | 468 00348 66301 07064 |
| 15 | 93 34270 50148 89330 | 1657 51904 87099 48060 |
| 16 | 247 19926 82252 13304 | 5204 54183 92757 42600 |
| 17 | 607 23210 07565 17951 | 14845 31330 00590 61456 |
| 18 | 1400 76932 03907 11271 | 39134 59733 03197 79496 |
| 19 | 3063 11794 64437 50624 | 96566 13946 63389 41607 |
| 20 | 6396 36498 92731 56690 | 2 25217 09321 69764 67815 |
| 21 | 12829 75015 80806 48793 | 5 00260 78775 57222 05485 |
| 22 | 24836 13899 46328 82917 | 10 64769 79471 12707 52377 |
| 23 | 46583 70278 55633 97762 | 21 82396 04946 97504 83642 |
| 24 | 84935 77576 27523 21748 | 43 25246 37760 56667 80694 |
| 25 | 1 50957 94177 43499 58325 | 83 17227 83845 50259 02850 |
| 26 | 2 62153 40040 31120 80005 | 155 63209 04362 38239 02450 |
| 27 | 4 45730 20793 17788 47220 | 284 08725 66337 63158 22695 |

| n | ${}^{23}P_n^{n-11}$ | ${}^{23}P_n^{n-12}$ |
|-----|-----------------------------|------------------------------|
| 11 | 7 72536 65448 96000 | |
| 12 | 112 26108 02641 11360 | 262 66246 25264 64000 |
| 13 | 880 87726 19012 93280 | 4191 80027 17703 61600 |
| 14 | 4947 43782 97982 77632 | 35903 38170 02169 19680 |
| 15 | 22263 56683 51122 39000 | 2 18958 58140 27531 92064 |
| 16 | 85249 29068 60902 65280 | 10 64974 12113 70182 74064 |
| 17 | 2 88226 42241 78442 26680 | 43 89696 45789 45386 19984 |
| 18 | 8 82038 95442 02066 84920 | 159 18753 35460 83076 87184 |
| 19 | 24 86557 44496 33176 44256 | 520 82350 48583 67817 68904 |
| 20 | 65 42335 30254 95531 91750 | 1565 17763 17429 61228 27656 |
| 21 | 162 26670 31087 95413 07795 | 4378 38181 18392 69100 72906 |

| n | $-{}^{23}P_n^{n-11}$ | ${}^{23}P_n^{n-12}$ |
|-----|---------------------------------------|-------------------------------------|
| 22 | 382 38144 97213 13183 49135 | 11518 11674 86262 67276 15886 |
| 23 | 861 52785 73413 85022 06100 | 28725 28198 60853 60533 26961 |
| 24 | 1865 43004 00974 70244 53632 | 68355 56342 37890 71548 07561 |
| 25 | 3898 29583 75721 33631 46250 | 1 56030 77530 83701 73041 28265 |
| 26 | 7890 56520 00305 46064 83050 | 3 43148 97551 18325 87351 48265 |
| 27 | 15516 53763 14062 19777 03100 | 7 29786 67031 33293 44528 17715 |
| n | $-{}^{23}P_n^{n-13}$ | ${}^{23}P_n^{n-14}$ |
| 13 | 9193 18618 84262 40000 | |
| 14 | 1 60097 99597 21592 57600 | 3 30954 70278 33446 40000 |
| 15 | 14 88523 11888 01852 85760 | 62 54580 55375 32371 71200 |
| 16 | 98 08949 21218 48065 84192 | 628 18459 07120 02780 30080 |
| 17 | 513 42939 93652 85192 72688 | 4453 67478 34640 77348 13568 |
| 18 | 2269 30798 25231 00640 72048 | 24990 85075 80754 85057 21088 |
| 19 | 8795 99685 79125 06792 46592 | 1 18032 47804 15226 11326 75056 |
| 20 | 30670 58406 19639 55135 40560 | 4 87464 34607 38478 96610 31920 |
| 21 | 97973 22222 69112 87951 29768 | 18 06299 46073 82979 67432 76000 |
| 22 | 2 90622 02194 78391 28383 37632 | 61 17121 23872 23946 37289 85792 |
| 23 | 8 08937 27563 60211 55810 52502 | 191 95112 22637 51554 14541 79232 |
| 24 | 21 30300 24699 59477 40340 92708 | 564 06226 90563 21285 81825 94324 |
| 25 | 53 43011 72791 40341 03100 48075 | 1565 30338 51444 16723 77849 51600 |
| 26 | 128 32488 94271 58024 09082 04795 | 4129 94901 45431 53093 26672 59200 |
| 27 | 296 46788 74279 55991 89304 69780 | 10417 86859 64738 96273 71692 94155 |
| n | $-{}^{23}P_n^{n-15}$ | |
| 15 | 122 45324 00298 37516 80000 | |
| 16 | 2499 19385 04560 67641 85600 | |
| 17 | 26998 39288 82241 76073 58720 | |
| 18 | 2 05145 38422 67872 69999 01440 | |
| 19 | 12 29770 26530 78821 57344 66048 | |
| 20 | 61 87134 34305 18318 33068 18400 | |
| 21 | 271 48101 22422 72913 87311 90960 | |
| 22 | 1066 25277 49671 24019 54353 34960 | |
| 23 | 3818 95733 23922 01606 32396 95600 | |
| 24 | 12648 70895 65247 73097 01319 40272 | |
| 25 | 39159 63560 21718 73530 47138 73500 | |
| 26 | 1 14294 19808 91038 76271 83915 50300 | |
| 27 | 3 16661 69980 17183 77841 90872 51100 | |
| n | ${}^{23}P_n^{n-16}$ | |
| 16 | 4653 22312 11338 25638 40000 | |
| 17 | 1 02121 78328 89204 63670 78400 | |
| 18 | 11 82057 49881 78875 06614 27200 | |

| n | ${}^{23}P_n^{n-16}$ |
|-----|---|
| 19 | 95 93018 25211 61655 76573 86240 |
| 20 | 612 43369 39504 72161 85049 60256 |
| 21 | 3272 90146 14627 59850 06981 51456 |
| 22 | 15218 06600 01227 68060 48705 53696 |
| 23 | 63199 44087 36433 48939 94606 26896 |
| 24 | 2 38871 47816 36846 22830 84866 24496 |
| 25 | 8 33360 79912 03489 58390 46878 17280 |
| 26 | 27 13023 30802 45988 87853 09537 45280 |
| 27 | 83 13439 01439 06888 25173 21397 09980 |
| n | $-{}^{23}P_n^{n-17}$ |
| 17 | 1 81475 70172 42191 99897 60000 |
| 18 | 42 66347 03328 10377 46728 96000 |
| 19 | 527 30704 48481 44255 17914 11200 |
| 20 | 4556 37471 07369 33797 34016 33280 |
| 21 | 30891 02355 06072 36756 91149 24288 |
| 22 | 1 74898 68785 49686 70159 98335 88352 |
| 23 | 8 59711 65786 04932 32881 90085 04672 |
| 24 | 37 66885 93804 80872 84119 41973 41888 |
| 25 | 149 93845 41174 12645 57169 30686 93200 |
| 26 | 549 95163 76951 80145 59911 80839 22640 |
| 27 | 1879 33305 86272 33600 64713 48174 41360 |
| n | ${}^{23}P_n^{n-18}$ |
| 18 | 72 59028 06896 87679 95904 00000 |
| 19 | 1821 79256 43349 13156 11791 36000 |
| 20 | 23968 68844 79569 71873 64184 06400 |
| 21 | 2 19892 80100 96451 25159 26886 37440 |
| 22 | 15 79097 83723 63635 42463 37453 06112 |
| 23 | 94 49538 79070 99536 99662 62567 81952 |
| 24 | 489 96275 05229 26424 12230 06479 96864 |
| 25 | 2260 39914 14055 27447 65842 79230 65600 |
| 26 | 9457 44493 90413 34435 09969 52203 39200 |
| 27 | 36405 07518 61051 61569 45648 13325 48560 |
| n | $-{}^{23}P_n^{n-19}$ |
| 19 | 2976 20150 82771 94878 32064 00000 |
| 20 | 79491 48921 03435 47435 27301 12000 |
| 21 | 11 10145 09247 24933 38001 87215 87200 |
| 22 | 107 85428 33689 68788 45009 70216 34560 |
| 23 | 818 44831 01253 32382 55861 55604 09600 |
| 24 | 5165 23615 38519 11084 40342 33723 79392 |

Première partie

| n | $-^{23}\mathbf{P}_n^{n-19}$ |
|-----|---|
| 25 | 28193 48542 84294 53018 15155 38282 32000 |
| 26 | 1 36692 64421 58947 70505 75609 41353 80800 |
| 27 | 6 00107 44622 89201 57825 64115 99320 01600 |
| n | $^{23}\mathbf{P}_n^{n-20}$ |
| 20 | 1 25000 46334 76421 84889 46688 00000 |
| 21 | 35 43134 49939 24147 24606 20636 16000 |
| 22 | 523 89518 56818 21215 96688 58134 52800 |
| 23 | 5377 33793 72854 16696 22125 17870 08000 |
| 24 | 43025 96020 30507 06293 91756 75658 49600 |
| 25 | 2 85792 05943 40905 27260 87846 60676 81024 |
| 26 | 16 39079 35999 87042 72132 15304 98228 17024 |
| 27 | 83 37018 92657 75480 26914 20166 24564 76224 |
| n | $-^{23}\mathbf{P}_n^{n-21}$ |
| 21 | 53 75019 92394 86139 50247 07584 00000 |
| 22 | 1612 72937 89721 48618 32920 15575 04000 |
| 23 | 25188 01273 46541 03336 83906 31628 80000 |
| 24 | 2 72545 55784 97832 71363 01664 53652 48000 |
| 25 | 22 94765 68739 31664 67177 14232 09601 79200 |
| 26 | 160 12784 54022 95117 75699 30869 22088 68352 |
| 27 | 963 27673 18016 60211 10174 80813 35269 02528 |
| n | $^{23}\mathbf{P}_n^{n-22}$ |
| 22 | 2365 00876 65373 90138 10871 33696 00000 |
| 23 | 74937 83082 02840 77962 92278 34572 80000 |
| 24 | 12 33586 41661 43728 31457 51968 89497 60000 |
| 25 | 140 43227 63555 41865 85519 30202 11164 16000 |
| 26 | 1241 91980 63042 61770 10022 13342 72050 17600 |
| 27 | 9088 18423 10167 22540 19288 25934 54395 66848 |
| n | $-^{23}\mathbf{P}_n^{n-23}$ |
| 23 | 1 06425 39449 41825 56214 89210 16320 00000 |
| 24 | 35 53565 61222 72501 42509 34014 06668 80000 |
| 25 | 615 32127 19310 27732 21012 76552 13056 00000 |
| 26 | 7356 07053 69970 37293 25939 26253 48935 68000 |
| 27 | 68210 14104 59058 64028 17023 80046 79394 30400 |

| n | ${}^{23}\mathcal{P}_n^{n-24}$ |
|-----|--|
| 24 | 48 95568 14673 23975 85885 03667 50720 00000 |
| 25 | 1719 13151 92141 31542 83824 02328 64153 60000 |
| 26 | 31254 55257 19034 62688 92436 76830 90841 60000 |
| 27 | 3 91702 00888 47582 90058 63460 63251 88689 92000 |
| n | $-{}^{23}\mathcal{P}_n^{n-25}$ |
| 25 | 2300 91702 89642 26865 36596 72372 83840 00000 |
| 26 | 84819 22995 12425 40921 60149 84147 63212 80000 |
| 27 | 16 16292 30597 45122 12678 89551 48862 14451 20000 |
| n | ${}^{23}\mathcal{P}_n^{n-26}$ |
| 26 | 1 10444 01739 02828 89537 56642 73896 24320 00000 |
| 27 | 42 66586 28500 11673 94696 03984 97130 21747 20000 |
| n | $-{}^{23}\mathcal{P}_n^{n-27}$ |
| 27 | 54 11756 85212 38615 87340 75494 20915 91680 00000 |

TABLEAUX ${}^{24}P_n^r$

| n | $-{}^{24}P_n^{n-1}$ | ${}^{24}P_n^{n-2}$ | $-{}^{24}P_n^{n-3}$ | ${}^{24}P_n^{n-4}$ | $-{}^{24}P_n^{n-5}$ |
|-----|---------------------|--------------------|---------------------|--------------------|---------------------|
| 1 | 24 | | | | |
| 2 | 49 | 600 | | | |
| 3 | 75 | 1874 | 15600 | | |
| 4 | 102 | 3899 | 66198 | 4 21200 | |
| 5 | 130 | 6755 | 1 75370 | 22 74744 | 117 93600 |
| 6 | 159 | 10525 | 3 71265 | 73 60474 | 777 61176 |
| 7 | 189 | 15295 | 6 87015 | 184 98424 | 2985 75396 |
| 8 | 220 | 21154 | 11 61160 | 397 95889 | 8720 26540 |
| 9 | 252 | 28194 | 18 38088 | 769 53009 | 21454 94988 |
| 10 | 285 | 36510 | 27 68490 | 1376 09913 | 46849 44285 |
| 11 | 319 | 46200 | 40 09830 | 2317 38573 | 93636 81327 |
| 12 | 354 | 57365 | 56 26830 | 3720 82623 | 1 74745 31382 |
| 13 | 390 | 70109 | 76 91970 | 5746 48503 | 3 08695 05810 |
| 14 | 427 | 84539 | 102 86003 | 8592 51393 | 5 21315 00421 |
| 15 | 465 | 1 00765 | 134 98485 | 12501 19507 | 8 47830 53355 |
| 16 | 504 | 1 18900 | 174 28320 | 17765 60422 | 13 35377 14128 |
| 17 | 544 | 1 39060 | 221 84320 | 24736 93222 | 20 46001 31008 |
| 18 | 585 | 1 61364 | 278 85780 | 33832 50342 | 30 60215 53110 |
| 19 | 627 | 1 85934 | 346 63068 | 45544 53102 | 44 81180 67474 |
| 20 | 670 | 2 12895 | 426 58230 | 60449 65026 | 64 39595 50860 |
| 21 | 714 | 2 42375 | 520 25610 | 79219 27146 | 90 99380 12004 |
| 22 | 759 | 2 74505 | 629 32485 | 1 02630 79596 | 126 64247 33574 |
| 23 | 805 | 3 09419 | 755 59715 | 1 31579 73906 | 173 85263 94990 |
| 24 | 852 | 3 47254 | 901 02408 | 1 67092 80511 | 235 69511 68572 |
| 25 | 900 | 3 88150 | 1067 70600 | 2 10341 96095 | 315 89966 33100 |
| 26 | 949 | 4 32250 | 1257 89950 | 2 62659 55495 | 418 96722 41755 |

| n | ${}^{24}P_n^{n-6}$ | $-{}^{24}P_n^{n-7}$ | ${}^{24}P_n^{n-8}$ |
|-----|--------------------|---------------------|----------------------|
| 6 | 3420 14400 | | |
| 7 | 26748 49680 | 1 02604 32000 | |
| 8 | 1 19306 86956 | 9 31807 72080 | 31 80733 92000 |
| 9 | 3 98355 36236 | 47 49627 54672 | 329 98580 98560 |
| 10 | 11 06368 70840 | 178 95354 50460 | 1897 36290 02736 |
| 11 | 26 99249 76530 | 555 11890 59020 | 7981 78343 18376 |
| 12 | 59 76538 22975 | 1499 85632 37570 | 27410 94513 84076 |
| 13 | 122 67369 52727 | 3651 41008 64670 | 81405 77279 36596 |
| 14 | 236 89086 67697 | 8190 33681 15569 | 2 16507 94599 29386 |
| 15 | 434 99056 83695 | 17192 18974 88055 | 5 27740 74483 21008 |
| 16 | 765 64447 64540 | 34156 82191 52160 | 11 98236 14503 55153 |
| 17 | 1299 79533 29660 | 64782 60097 33760 | 25 64509 02164 41553 |
| 18 | 2138 65587 00988 | 1 18074 20962 49820 | 52 20595 66155 25713 |

| n | ${}^{24}P_n^{n-6}$ | $-{}^{24}P_n^{n-7}$ | ${}^{24}P_n^{n-8}$ |
|-----|--------------------|----------------------|------------------------|
| 19 | 3423 94639 31608 | 2 07897 75616 91316 | 101 79712 46580 18153 |
| 20 | 5350 85408 32990 | 3 55127 45107 50460 | 191 19315 98107 44741 |
| 21 | 8184 27610 70830 | 5 90565 03074 02020 | 347 44923 82837 64981 |
| 22 | 12278 99716 11010 | 9 58857 45555 89370 | 613 20350 21168 55881 |
| 23 | 18104 55093 55414 | 15 23691 32496 95830 | 1054 27793 16739 66901 |
| 24 | 26275 62499 19944 | 23 74605 21894 00288 | 1770 41285 44096 70911 |
| 25 | 37588 99060 11400 | 36 35835 21855 57600 | 2910 22335 95008 84735 |
| 26 | 53068 07410 33300 | 54 77695 75801 16200 | 4691 78261 65932 07135 |

| n | $-{}^{24}P_n^{n-9}$ | ${}^{24}P_n^{n-10}$ |
|-----|---------------------------|-----------------------------|
| 9 | 1017 83485 44000 | |
| 10 | 11907 36657 96480 | 33588 55019 52000 |
| 11 | 76417 70518 89504 | 4 38439 01390 32320 |
| 12 | 3 55780 12530 32664 | 31 13058 69551 64960 |
| 13 | 13 42574 15028 59400 | 159 21143 20643 40864 |
| 14 | 43 54587 74365 13452 | 655 96386 76701 38664 |
| 15 | 125 81889 69138 30120 | 2310 70721 02576 49840 |
| 16 | 331 63778 73983 49432 | 7217 64418 98970 24520 |
| 17 | 810 93224 54125 55552 | 20483 15568 58310 01800 |
| 18 | 1862 38094 42866 59225 | 53731 37774 77457 79432 |
| 19 | 4055 03112 21387 39171 | 1 31951 37740 77854 66882 |
| 20 | 8432 30748 24335 19750 | 3 06317 71565 97512 51235 |
| 21 | 16844 80651 41062 88354 | 6 77339 24488 68261 20235 |
| 22 | 32480 02223 68757 12499 | 14 35355 53802 16090 96165 |
| 23 | 60687 38333 42510 83025 | 29 29436 56091 78918 71119 |
| 24 | 1 10238 44612 29275 27372 | 57 81743 57762 76927 73294 |
| 25 | 1 95218 26313 45917 31100 | 110 73188 99152 82140 87150 |
| 26 | 3 37819 20775 01350 83115 | 206 38883 88512 32089 11050 |

| n | $-{}^{24}P_n^{n-11}$ | ${}^{24}P_n^{n-12}$ |
|-----|------------------------------|-------------------------------|
| 11 | 11 42010 70663 68000 | |
| 12 | 164 87376 19324 99200 | 399 70374 73228 80000 |
| 13 | 1285 57489 23184 37760 | 6335 15917 68928 51200 |
| 14 | 7176 39787 86990 49728 | 53901 43019 26750 48320 |
| 15 | 32103 02485 01643 18960 | 3 26604 54958 32389 37984 |
| 16 | 1 22220 60605 02126 62720 | 15 78622 51873 96473 77424 |
| 17 | 4 10926 37364 60936 43520 | 64 67446 76074 81538 86224 |
| 18 | 12 50735 75676 51647 17320 | 233 15428 08023 79932 70544 |
| 19 | 35 07453 62217 04874 53464 | 758 46329 86437 49113 97984 |
| 20 | 91 81362 85070 52625 29390 | 2266 66835 61770 58718 96936 |
| 21 | 226 59342 33973 43175 83730 | 6306 46801 04873 74231 90096 |
| 22 | 531 39608 35964 14929 94305 | 16503 17206 33678 17144 57946 |
| 23 | 1191 65963 10863 55114 17895 | 40947 39190 88029 03921 95976 |
| 24 | 2568 49481 47177 64293 60488 | 96955 39456 98615 94288 37041 |

| n | $-^{24}P_n^{n-11}$ | $^{24}P_n^{n-12}$ |
|-----|---------------------------------------|------------------------------------|
| 25 | 5343 73173 19790 56824 78600 | 2 20243 14567 63142 80381 40465 |
| 26 | 10769 59433 78278 81727 48950 | 4 82086 00054 32880 64795 91865 |
| n | $-^{24}P_n^{n-13}$ | $^{24}P_n^{n-14}$ |
| 13 | 14389 33490 36236 80000 | |
| 14 | 2 48790 22444 86591 74400 | 5 32405 39143 40761 60000 |
| 15 | 22 97044 57177 03110 10560 | 99 86433 92048 31247 87200 |
| 16 | 150 34622 00551 66295 91936 | 995 71172 21952 52541 99040 |
| 17 | 781 79522 75510 25246 88896 | 7009 56052 44019 04378 76480 |
| 18 | 3433 44839 94577 68340 24080 | 39063 16485 39939 39501 21216 |
| 19 | 13225 92819 31577 25513 86928 | 1 83267 99763 12202 09791 32576 |
| 20 | 45839 85003 48389 37415 00240 | 7 51982 90993 70024 06887 70480 |
| 21 | 1 45573 25770 66295 21049 65424 | 27 68936 31146 99156 53147 81040 |
| 22 | 4 29364 31817 85613 61485 19744 | 93 19732 90826 82441 00382 25120 |
| 23 | 11 88510 23309 34809 50135 85260 | 290 70491 54448 20667 28701 33344 |
| 24 | 31 13037 65280 72174 34467 96132 | 849 30472 49987 56713 85086 40564 |
| 25 | 77 66896 59216 05739 60309 74100 | 2343 56279 83462 21082 39548 54900 |
| 26 | 185 58810 73029 99736 98998 56885 | 6149 34212 85049 02322 94725 85800 |
| n | $-^{24}P_n^{n-15}$ | |
| 15 | 202 31404 87449 48940 80000 | |
| 16 | 4097 02327 77333 67607 80800 | |
| 17 | 43925 49216 55434 69287 42400 | |
| 18 | 3 31317 47366 60215 48816 78080 | |
| 19 | 19 71970 39753 37670 07867 69152 | |
| 20 | 98 52494 29567 62360 28894 69920 | |
| 21 | 429 39742 33290 43419 31953 71040 | |
| 22 | 1675 41876 34905 05463 23605 17840 | |
| 23 | 5962 49590 12938 97749 41188 73360 | |
| 24 | 19625 62692 72004 69111 90151 40528 | |
| 25 | 60392 25372 71407 91376 74298 87600 | |
| 26 | 1 75226 83084 61056 24414 12177 77700 | |
| n | $^{24}P_n^{n-16}$ | |
| 16 | 7890 24790 10530 08691 20000 | |
| 17 | 1 71771 17901 03877 13003 52000 | |
| 18 | 19 72716 35779 76699 53787 90400 | |
| 19 | 158 88050 25177 05750 04092 69760 | |
| 20 | 1006 82777 34572 25563 42403 43296 | |
| 21 | 5341 92526 35547 69416 13770 19776 | |
| 22 | 24664 80931 33617 23285 51687 16576 | |
| 23 | 1 01734 07243 39249 74594 37525 37216 | |

| n | ${}^{24}P_n^{n-16}$ |
|-----|---|
| 24 | 3 81971 37979 47381 68816 73395 85136 |
| 25 | 13 24001 47230 03606 86188 00663 30480 |
| 26 | 42 83221 90493 02594 63648 41308 22880 |
| n | $-{}^{24}P_n^{n-17}$ |
| 17 | 3 15609 91604 21203 47648 00000 |
| 18 | 73 58228 25546 80165 80792 32000 |
| 19 | 902 12315 28297 01546 39884 28800 |
| 20 | 7733 98476 10910 48798 15870 28480 |
| 21 | 52034 40679 32089 73588 81621 33504 |
| 22 | 2 92421 04365 31735 97315 01280 23424 |
| 23 | 14 27002 27206 78128 68448 78889 85920 |
| 24 | 62 08503 67646 22866 74384 42582 35072 |
| 25 | 245 43129 90660 97187 77587 65583 21600 |
| 26 | 894 19202 04932 73924 00799 98085 15120 |
| n | ${}^{24}P_n^{n-18}$ |
| 18 | 129 40006 55772 69342 53568 00000 |
| 19 | 3219 85593 28738 36306 46845 44000 |
| 20 | 42011 15150 45510 02801 61869 82400 |
| 21 | 3 82306 48099 25571 49920 60162 35520 |
| 22 | 27 23854 78668 69609 61417 33122 43200 |
| 23 | 161 75222 79473 29464 37907 92013 20704 |
| 24 | 832 44329 58192 01512 55000 99836 58944 |
| 25 | 3812 52506 05210 99116 25453 43789 42400 |
| 26 | 15838 65871 47598 61317 27248 57367 00800 |
| n | $-{}^{24}P_n^{n-19}$ |
| 19 | 5434 80275 42453 12386 49856 00000 |
| 20 | 1 43888 60786 78202 73564 64209 92000 |
| 21 | 19 92379 27406 80643 96835 86482 17600 |
| 22 | 191 96170 91873 31361 43262 93788 16000 |
| 23 | 1444 93491 10633 33403 68460 17420 03200 |
| 24 | 9047 28962 45878 18229 50132 42040 76288 |
| 25 | 49004 56782 39094 90831 90180 34197 05600 |
| 26 | 2 35818 29578 94433 47528 37398 79878 83200 |
| n | ${}^{24}P_n^{n-20}$ |
| 20 | 2 33696 51843 25484 32619 43808 00000 |
| 21 | 65 64795 26461 66404 69463 69044 48000 |
| 22 | 962 21862 59767 95383 27077 60742 40000 |
| 23 | 9792 45724 85940 38009 17172 74997 76000 |

| n | ${}^{24}P_n^{n-20}$ |
|-----|---|
| 24 | 77704 39806 85707 07982 34800 93739 26400 |
| 25 | 5 11974 30004 87859 82998 41157 11695 88224 |
| 26 | 29 13198 12342 03510 33761 59993 87351 62624 |
| n | $-{}^{24}P_n^{n-21}$ |
| 21 | 102 82646 81103 21310 35255 27552 00000 |
| 22 | 3056 98433 71878 09521 61121 34553 60000 |
| 23 | 47319 04113 21203 97152 06691 28704 00000 |
| 24 | 5 07564 53181 60401 83583 13810 53598 72000 |
| 25 | 42 37375 63910 74341 66735 84255 53083 39200 |
| 26 | 293 24116 34149 79473 33658 00954 26181 62176 |
| n | ${}^{24}P_n^{n-22}$ |
| 22 | 4627 19106 49644 58965 86487 39840 00000 |
| 23 | 1 45248 47057 56036 96959 98069 29305 60000 |
| 24 | 23 69243 40378 52623 63107 12559 78393 60000 |
| 25 | 267 32340 93095 51911 75097 75465 51132 16000 |
| 26 | 2343 63747 24721 94653 45154 03986 52218 36800 |
| n | $-{}^{24}P_n^{n-23}$ |
| 23 | 2 12850 78898 83651 12429 78420 32640 00000 |
| 24 | 70 39528 90604 17388 69548 87677 10003 20000 |
| 25 | 1207 63212 28773 43322 98690 90546 72896 00000 |
| 26 | 14306 47917 90453 86998 78480 88356 78371 84000 |
| n | ${}^{24}P_n^{n-24}$ |
| 24 | 100 03987 08245 31602 84199 85755 34080 00000 |
| 25 | 3479 01374 57245 66260 22545 94256 14233 60000 |
| 26 | 62652 98776 67143 89086 58400 31045 86137 60000 |
| n | $-{}^{24}P_n^{n-25}$ |
| 25 | 4801 91379 95775 16936 41593 16256 35840 00000 |
| 26 | 1 75273 58734 00812 63687 46344 34807 33286 40000 |
| n | ${}^{24}P_n^{n-26}$ |
| 26 | 2 35293 77617 92983 29884 38064 96561 56160 00000 |

TABLEAUX ${}^{25}P_n^r$

| n | $-{}^{25}P_n^{n-1}$ | ${}^{25}P_n^{n-2}$ | $-{}^{25}P_n^{n-3}$ | ${}^{25}P_n^{n-4}$ | $-{}^{25}P_n^{n-5}$ |
|-----|---------------------|---------------------|---------------------|--------------------|-----------------------|
| 1 | 25 | | | | |
| 2 | 51 | 650 | | | |
| 3 | 78 | 2027 | 17550 | | |
| 4 | 106 | 4211 | 74306 | 4 91400 | |
| 5 | 135 | 7285 | 1 96425 | 26 46274 | 142 50600 |
| 6 | 165 | 11335 | 4 14975 | 85 39024 | 936 38820 |
| 7 | 196 | 16450 | 7 66360 | 214 03249 | 3583 48564 |
| 8 | 228 | 22722 | 12 92760 | 459 26769 | 10432 52532 |
| 9 | 261 | 30246 | 20 42586 | 885 87849 | 25588 35909 |
| 10 | 295 | 39120 | 30 70950 | 1580 35773 | 55708 22775 |
| 11 | 330 | 49445 | 44 40150 | 2655 19023 | 1 11020 74830 |
| 12 | 366 | 61325 | 62 20170 | 4253 64423 | 2 06607 59658 |
| 13 | 403 | 74867 | 84 89195 | 6555 10713 | 3 63992 43309 |
| 14 | 441 | 90181 | 113 34141 | 9781 00123 | 6 13086 50403 |
| 15 | 480 | 1 07380 | 148 51200 | 14201 31622 | 9 94545 55200 |
| 16 | 520 | 1 26580 | 191 46400 | 20141 79622 | 15 62598 20080 |
| 17 | 561 | 1 47900 | 243 36180 | 27991 82022 | 23 88411 84582 |
| 18 | 603 | 1 71462 | 305 47980 | 38213 01582 | 35 64068 29506 |
| 19 | 646 | 1 97391 | 379 20846 | 51348 64722 | 52 07227 97532 |
| 20 | 690 | 2 25815 | 466 06050 | 68033 81946 | 74 66568 45300 |
| 21 | 735 | 2 56865 | 567 67725 | 89006 54196 | 105 28090 32870 |
| 22 | 781 | 2 90675 | 685 83515 | 1 15119 69546 | 146 22391 25886 |
| 23 | 828 | 3 27382 | 822 45240 | 1 47353 94751 | 200 33016 94548 |
| 24 | 876 | 3 67126 | 979 59576 | 1 86831 66271 | 271 06006 42596 |
| 25 | 925 | 4 10050 | 1159 48750 | 2 34831 85495 | 362 60757 89875 |
| n | ${}^{25}P_n^{n-6}$ | $-{}^{25}P_n^{n-7}$ | | ${}^{25}P_n^{n-8}$ | |
| 6 | 4275 18000 | | | | |
| 7 | 33303 21420 | | 1 32530 58000 | | |
| 8 | 1 47974 75468 | | 11 98233 43440 | | 42 40978 56000 |
| 9 | 4 92248 09024 | | 60 81400 33884 | | 437 82681 89520 |
| 10 | 13 62252 29930 | | 228 17835 40700 | | 2505 50293 41576 |
| 11 | 33 12040 27055 | | 704 96665 88250 | | 10491 74532 66076 |
| 12 | 73 08787 20935 | | 1897 30115 62230 | | 35870 54504 43076 |
| 13 | 149 53268 28281 | | 4601 55242 36825 | | 1 06070 68782 45586 |
| 14 | 287 84980 74023 | | 10283 79437 11503 | | 2 80929 67992 44936 |
| 15 | 526 95354 39740 | | 21509 93685 98400 | | 6 81997 66039 93553 |
| 16 | 924 77176 47740 | | 42588 07861 88000 | | 15 42395 13479 29553 |
| 17 | 1565 43702 71020 | | 80503 72097 45340 | | 32 88506 35816 37553 |
| 18 | 2568 57000 23464 | | 1 46252 07611 28180 | | 66 69662 63909 41833 |
| 19 | 4101 11936 92222 | | 2 56700 58621 37132 | | 129 58501 91194 53573 |
| 20 | 6392 29967 83630 | | 4 37149 83845 94900 | | 242 53327 70534 87381 |

| n | $-^{25}\mathbf{P}_n^{n-6}$ | $-^{25}\mathbf{P}_n^{n-7}$ | $^{25}\mathbf{P}_n^{n-8}$ |
|-----|----------------------------|----------------------------|---------------------------|
| 21 | 9752 25548 22130 | 7 24803 32398 58250 | 439 25070 43602 57881 |
| 22 | 14595 17703 34150 | 11 73407 07616 76230 | 772 66023 33937 37381 |
| 23 | 21467 70092 50792 | 18 59380 39673 81280 | 1324 16155 91925 20191 |
| 24 | 31083 54905 89096 | 28 89830 04114 19296 | 2216 66414 96268 21631 |
| 25 | 44365 49220 76300 | 44 12923 94502 85000 | 3632 68086 97863 67135 |

| n | $-^{25}\mathbf{P}_n^{n-9}$ | $^{25}\mathbf{P}_n^{n-10}$ |
|-----|----------------------------|-----------------------------|
| 9 | 1399 52292 48000 | |
| 10 | 16285 63476 91680 | 47583 77944 32000 |
| 11 | 1 03978 23746 46840 | 6 17580 99636 40800 |
| 12 | 4 81681 06922 25576 | 43 60797 54509 27040 |
| 13 | 18 08891 23586 19388 | 221 82997 10632 73352 |
| 14 | 58 39577 37319 51656 | 909 20864 06908 10096 |
| 15 | 167 95834 89025 04160 | 3186 64381 62369 24680 |
| 16 | 440 75741 30622 46280 | 9904 97777 23370 91080 |
| 17 | 1073 13941 83273 57953 | 27976 03170 78891 88560 |
| 18 | 2454 31208 87561 35179 | 73047 88727 76382 22586 |
| 19 | 5322 26702 35666 33998 | 1 78583 30709 41520 35283 |
| 20 | 11024 00786 48225 91210 | 4 12763 05613 10839 31195 |
| 21 | 21938 00533 22295 23355 | 9 08843 41004 81005 35645 |
| 22 | 42143 53773 28013 85881 | 19 17991 65533 06586 09975 |
| 23 | 78458 56870 23070 42788 | 38 98737 92877 23237 46382 |
| 24 | 1 42018 32354 35480 11956 | 76 64749 22648 30618 00206 |
| 25 | 2 50634 86687 52622 71875 | 146 23647 08011 69143 86050 |

| n | $-^{25}\mathbf{P}_n^{n-11}$ | $^{25}\mathbf{P}_n^{n-12}$ |
|-----|------------------------------|---------------------------------|
| 11 | 16 65432 28051 20000 | |
| 12 | 238 98348 14961 88800 | 599 55562 09843 20000 |
| 13 | 1852 47857 31804 89280 | 9441 94443 63433 05600 |
| 14 | 10282 01747 35848 76656 | 79836 13021 72018 98240 |
| 15 | 45741 15446 05264 70400 | 4 80834 81168 70120 87824 |
| 16 | 1 73206 90711 00034 57600 | 23 10480 99010 80709 03824 |
| 17 | 5 79310 99577 58241 91880 | 94 11964 18161 82126 65424 |
| 18 | 17 54304 32750 71701 11400 | 337 43026 00420 28287 24384 |
| 19 | 48 95363 48044 56136 82598 | 1091 78112 08701 11435 14584 |
| 20 | 127 53028 99258 83032 35050 | 3245 74105 22661 81455 48896 |
| 21 | 313 27366 51848 70801 38825 | 8984 60409 89309 17911 26146 |
| 22 | 731 34163 38069 97047 78495 | 23395 19269 74349 74775 12096 |
| 23 | 1632 79771 18124 06594 47320 | 57768 24948 63638 36021 01361 |
| 24 | 3504 19191 76231 21992 73656 | 1 36142 53965 33593 52555 72721 |
| 25 | 7259 91903 85998 22274 83750 | 3 07847 94361 68923 30199 81865 |

| n | $-{}^{25}P_n^{n-13}$ | ${}^{25}P_n^{n-14}$ |
|-----|--|---------------------|
| 13 | 22183 55797 64198 40000 | |
| 14 | 3 80977 44655 74654 52800 | |
| 15 | 34 94586 52502 83394 84160 | |
| 16 | 227 27978 99250 88229 97120 | |
| 17 | 1174 57699 58693 97300 53904 | |
| 18 | 5127 60195 21490 46620 01712 | |
| 19 | 19637 10313 39562 62971 50224 | |
| 20 | 67675 47245 22411 66117 91920 | |
| 21 | 2 13733 81980 42193 31614 92240 | |
| 22 | 6 27025 60835 50415 55532 94956 | |
| 23 | 17 26599 66513 44853 69963 63468 | |
| 24 | 44 99475 64047 99494 98972 28796 | |
| 25 | 111 70460 08349 45577 74202 92125 | |
| n | $-{}^{25}P_n^{n-15}$ | |
| 15 | 328 76032 92105 42028 80000 | |
| 16 | 6609 19857 67485 84660 48000 | |
| 17 | 70357 86679 09398 45898 17600 | |
| 18 | 5 27037 17882 23328 26005 73440 | |
| 19 | 31 15875 86234 69857 35175 07424 | |
| 20 | 154 66342 99011 72779 40327 72000 | |
| 21 | 669 78966 75784 30229 24626 45200 | |
| 22 | 2597 24543 47432 41094 39335 67760 | |
| 23 | 9187 52759 84049 43710 47131 24560 | |
| 24 | 30063 72625 59959 94513 33171 56496 | |
| 25 | 91984 46984 29166 21442 79639 82500 | |
| n | ${}^{25}P_n^{n-16}$ | |
| 16 | 13150 41316 84216 81152 00000 | |
| 17 | 2 84127 55481 51136 52231 68000 | |
| 18 | 32 39157 96003 45871 79955 07200 | |
| 19 | 259 01756 64939 48986 98201 65120 | |
| 20 | 1630 00294 59266 22710 45904 91776 | |
| 21 | 8589 85729 14793 97783 60652 31776 | |
| 22 | 39400 18200 00871 88328 93469 10976 | |
| 23 | 1 61470 71743 30195 19765 42245 95696 | |
| 24 | 6 02472 04215 64568 17868 04545 74576 | |
| 25 | 20 75594 62870 02605 49021 29952 42880 | |
| n | $-{}^{25}P_n^{n-17}$ | |
| 17 | 5 39166 93990 52889 27232 00000 | |
| 18 | 124 72524 24214 00623 20962 56000 | |
| 19 | 1517 56316 52362 73110 59030 65600 | |
| 20 | 12914 33609 09700 28537 79903 30880 | |
| 21 | 86264 46865 76680 50508 45624 60800 | |

| n | $-{}^{25}\mathbf{P}_n^{n-17}$ |
|-----|--|
| 22 | 4 81397 90406 57203 48554 35631 22496 |
| 23 | 23 33206 45806 98182 00014 28679 38368 |
| 24 | 100 83800 89485 47551 48754 56485 31776 |
| 25 | 396 04930 96052 11392 24288 79226 86000 |
| n | ${}^{25}\mathbf{P}_n^{n-18}$ |
| 18 | 226 45011 47602 21349 43744 00000 |
| 19 | 5589 63553 88804 48147 45134 08000 |
| 20 | 72362 41480 92764 65013 42482 94400 |
| 21 | 6 53507 53890 29277 49214 38131 84000 |
| 22 | 46 21673 09715 56580 72603 36863 80800 |
| 23 | 272 47374 58824 45144 54658 11531 38112 |
| 24 | 1392 41284 57559 57880 55343 88141 79776 |
| 25 | 6333 47528 42347 87903 44317 55922 36800 |
| n | $-{}^{25}\mathbf{P}_n^{n-19}$ |
| 19 | 9737 35493 46895 18025 80992 00000 |
| 20 | 2 55681 31864 54292 36513 66891 52000 |
| 21 | 35 11989 98506 28701 62117 78624 00000 |
| 22 | 335 73336 77459 75466 25979 32688 64000 |
| 23 | 2507 91972 34091 34760 38337 65287 61600 |
| 24 | 15586 65952 57665 01698 61927 18793 90976 |
| 25 | 83814 88896 78084 37845 73777 37742 00000 |
| n | ${}^{25}\mathbf{P}_n^{n-20}$ |
| 20 | 4 28443 61712 63387 93135 63648 00000 |
| 21 | 119 34102 95617 06544 36250 73766 40000 |
| 22 | 1734 85642 26906 26818 93668 90470 40000 |
| 23 | 17514 32470 67514 73733 14697 26836 48000 |
| 24 | 1 37894 47143 03899 42231 54904 60642 04800 |
| 25 | 9 01640 78819 29485 25463 89336 81543 62624 |
| n | $-{}^{25}\mathbf{P}_n^{n-21}$ |
| 21 | 192 79962 77068 52456 91103 64160 00000 |
| 22 | 5682 48698 75453 53497 58637 57414 40000 |
| 23 | 87220 73885 40048 13987 61076 09523 20000 |
| 24 | 9 27908 32477 80755 53178 66544 97674 24000 |
| 25 | 76 84737 42486 71827 22524 56870 69134 59200 |

| n | ${}^{25}P_n^{n-22}$ |
|-----|--|
| 22 | 8868 78287 45152 13017 90767 51360 00000 |
| 23 | 2 75945 67128 91468 27404 46733 49836 80000 |
| 24 | 44 62541 13628 13778 98809 78386 06950 40000 |
| 25 | 499 30049 05040 70800 04564 39089 92988 16000 |
| n | ${}^{25}P_n^{n-23}$ |
| 23 | 4 16832 79510 22150 11841 66073 13920 00000 |
| 24 | 136 62225 01698 12627 27256 09281 06086 40000 |
| 25 | 2323 26740 69476 87797 68935 50198 46656 00000 |
| n | ${}^{25}P_n^{n-24}$ |
| 24 | 200 07974 16490 63205 68399 71510 68160 00000 |
| 25 | 6894 56999 99698 81942 03948 26282 66393 60000 |
| n | ${}^{25}P_n^{n-25}$ |
| 25 | 9803 90734 08040 97078 51586 04023 39840 00000 |

TABLEAUX ${}^{26}P_n^r$

| n | $-{}^{26}P_n^{n-1}$ | ${}^{26}P_n^{n-2}$ | $-{}^{26}P_n^{n-3}$ | ${}^{26}P_n^{n-4}$ | $-{}^{26}P_n^{n-5}$ |
|-----|---------------------|--------------------|---------------------|--------------------|---------------------|
| 1 | 26 | | | | |
| 2 | 53 | 702 | | | |
| 3 | 81 | 2186 | 19656 | | |
| 4 | 110 | 4535 | 83050 | 5 70024 | |
| 5 | 140 | 7835 | 2 19100 | 30 61524 | 171 00720 |
| 6 | 171 | 12175 | 4 61985 | 98 53624 | 1120 07964 |
| 7 | 203 | 17647 | 8 51585 | 246 37144 | 4273 23932 |
| 8 | 236 | 24346 | 14 33936 | 527 39449 | 12403 49684 |
| 9 | 270 | 32370 | 22 61700 | 1014 93273 | 30334 90950 |
| 10 | 305 | 41820 | 33 94650 | 1806 52773 | 65857 55505 |
| 11 | 341 | 52800 | 49 00170 | 3028 60173 | 1 30892 55333 |
| 12 | 378 | 65417 | 68 53770 | 4841 66463 | 2 42950 81734 |
| 13 | 416 | 79781 | 93 39616 | 7446 09723 | 4 26934 07328 |
| 14 | 455 | 96005 | 124 51075 | 11088 54747 | 7 17331 86525 |
| 15 | 495 | 1 14205 | 162 91275 | 16068 97747 | 11 60873 76405 |
| 16 | 536 | 1 34500 | 209 73680 | 22748 40022 | 18 19701 84032 |
| 17 | 578 | 1 57012 | 266 22680 | 31557 34582 | 27 75134 64956 |
| 18 | 621 | 1 81866 | 333 74196 | 43005 09822 | 41 32100 51982 |
| 19 | 665 | 2 09190 | 413 76300 | 57689 74446 | 60 24324 84150 |
| 20 | 710 | 2 39115 | 507 89850 | 76309 07946 | 86 20363 34220 |
| 21 | 756 | 2 71775 | 617 89140 | 99672 41046 | 121 30580 99736 |
| 22 | 803 | 3 07307 | 745 62565 | 1 28713 30626 | 168 15184 28898 |
| 23 | 851 | 3 45851 | 893 13301 | 1 64503 33746 | 229 93422 98946 |
| 24 | 900 | 3 87550 | 1062 60000 | 2 08266 85495 | 310 54086 52500 |

| n | ${}^{26}P_n^{n-6}$ | $-{}^{26}P_n^{n-7}$ | ${}^{26}P_n^{n-8}$ |
|-----|--------------------|---------------------|-----------------------|
| 6 | 5301 22320 | | |
| 7 | 41143 77168 | 1 69639 14240 | |
| 8 | 1 82160 66924 | 15 27383 60784 | 55 98091 69920 |
| 9 | 6 03879 56180 | 77 20846 36200 | 575 29134 36576 |
| 10 | 16 65601 39430 | 288 56631 02500 | 3277 58757 03576 |
| 11 | 40 36473 37610 | 888 18281 21980 | 13665 97473 93576 |
| 12 | 88 79497 84931 | 2381 67796 13550 | 46528 73879 06836 |
| 13 | 181 11628 90823 | 5755 88714 40928 | 1 37032 50132 21736 |
| 14 | 347 62057 76615 | 12819 42241 83025 | 3 61512 09994 17928 |
| 15 | 634 55332 37615 | 26724 24552 47625 | 8 74288 99667 38928 |
| 16 | 1110 51156 70220 | 52740 93179 89840 | 19 69983 06318 91553 |
| 17 | 1874 78633 99564 | 99382 41761 39080 | 41 85102 19874 64833 |
| 18 | 3068 09423 92672 | 1 79998 23023 20332 | 84 58546 15614 45273 |
| 19 | 4886 21846 79880 | 3 14994 37675 97900 | 163 78468 28635 39881 |
| 20 | 7597 16464 66630 | 5 34874 20781 92500 | 305 53215 24054 45381 |

| n | ${}^{26}P_n^{n-6}$ | $-{}^{26}P_n^{n-7}$ | ${}^{26}P_n^{n-8}$ |
|-----|------------------------------|----------------------|------------------------|
| 21 | 11562 53178 40750 | 8 84343 78156 57480 | 551 57428 80023 00381 |
| 22 | 17263 90485 28342 | 14 27782 77541 72730 | 967 21586 53382 01941 |
| 23 | 25335 19331 15446 | 22 56450 20835 33146 | 1652 55159 75384 92981 |
| 24 | 36601 97057 63800 | 34 97874 68061 90000 | 2758 21219 96316 17135 |
| n | $-{}^{26}P_n^{n-9}$ | | ${}^{26}P_n^{n-10}$ |
| 9 | 1903 35117 77280 | | |
| 10 | 22038 54820 57440 | | |
| 11 | 1 40031 70073 86176 | | |
| 12 | 6 45672 76609 48488 | | |
| 13 | 24 13764 84014 08256 | | |
| 14 | 77 58032 39170 55960 | | |
| 15 | 222 18516 38937 73080 | | |
| 16 | 580 64365 25300 69128 | | |
| 17 | 1408 03653 90695 14354 | | |
| 18 | 3207 63048 45305 02173 | | |
| 19 | 6929 39079 32340 94185 | | |
| 20 | 14299 70152 20933 88830 | | |
| 21 | 28354 18053 27438 76356 | | |
| 22 | 54278 17206 88519 94263 | | |
| 23 | 1 00704 53360 50856 87431 | | |
| 24 | 1 81679 56188 44718 43500 | | |
| n | $-{}^{26}P_n^{n-11}$ | | |
| n | $-{}^{26}P_n^{n-12}$ | | |
| 11 | 23 98222 48393 72800 | | |
| 12 | 342 18408 46914 60480 | | |
| 13 | 2637 83170 71947 84256 | | |
| 14 | 14562 76150 27633 28400 | | |
| 15 | 64448 19023 51843 55600 | | |
| 16 | 2 42812 48590 98876 82880 | | |
| 17 | 8 08129 98248 46610 18000 | | |
| 18 | 24 35549 85592 33766 58648 | | |
| 19 | 67 64821 83508 25138 20800 | | |
| 20 | 175 43594 71859 29347 66450 | | |
| 21 | 429 05734 83039 81622 51620 | | |
| 22 | 997 35180 50496 50622 02145 | | |
| 23 | 2217 40794 60341 42089 12881 | | |
| 24 | 4739 50453 03485 42700 20000 | | |
| n | $-{}^{26}P_n^{n-13}$ | | |
| n | ${}^{26}P_n^{n-14}$ | | |
| 13 | 33719 00812 41581 56800 | | |
| 14 | 5 75442 17208 01175 38560 | | |
| 15 | 52 46073 13679 72726 51520 | | |
| 16 | 339 16398 74016 42152 18304 | | |
| 17 | 1742 65784 16274 70801 42112 | | |

| n | $-^{26}P_n^{n-13}$ | $^{26}P_n^{n-14}$ |
|-----|----------------------------------|---------------------------------------|
| 18 | 7564 76171 17245 81209 40624 | 91573 39192 89375 65336 49504 |
| 19 | 28812 08261 48523 41110 69520 | 4 24422 90724 48191 38550 36960 |
| 20 | 98766 18432 21522 26123 69840 | 17 20966 62491 31744 88531 65360 |
| 21 | 3 10306 63360 91557 00227 55056 | 62 64211 10373 21768 90221 78000 |
| 22 | 9 05738 30613 14211 08201 70068 | 208 48622 88336 24948 00916 65632 |
| 23 | 24 81792 11541 73044 90784 61396 | 643 24061 57767 07079 94598 28896 |
| 24 | 64 36451 82454 00887 06832 45500 | 1859 31875 23311 86280 43044 37300 |
| n | $-^{26}P_n^{n-15}$ | |
| 15 | | 526 01652 67368 67246 08000 |
| 16 | | 10502 43508 87560 83805 69600 |
| 17 | | 1 11059 56034 84248 04121 06240 |
| 18 | | 8 26541 06412 35466 01762 69824 |
| 19 | | 48 55770 30899 67994 76568 48000 |
| 20 | | 239 54801 13501 36607 11335 11200 |
| 21 | | 1031 19265 88101 96871 83791 17760 |
| 22 | | 3975 37187 75643 20010 24214 83760 |
| 23 | | 13982 71086 15783 17514 68214 34096 |
| 24 | | 45501 50103 46369 64432 03530 50000 |
| n | $^{26}P_n^{n-16}$ | |
| 16 | | 21566 67759 62115 57089 28000 |
| 17 | | 4 62668 95132 39670 76928 51200 |
| 18 | | 52 38230 04630 62336 54134 19520 |
| 19 | | 416 06036 86774 22841 31692 91776 |
| 20 | | 2601 15700 77259 82605 77274 51776 |
| 21 | | 13620 36552 98322 66532 98689 66976 |
| 22 | | 62086 42049 39115 19509 36875 01696 |
| 23 | 2 | 52904 27061 69988 80000 99187 22176 |
| 24 | 9 | 38057 10283 43364 38220 41689 92880 |
| n | $-^{26}P_n^{n-17}$ | |
| 17 | | 9 05800 45904 08853 97749 76000 |
| 18 | | 208 00565 36597 14697 05675 77600 |
| 19 | | 2512 82687 40344 57504 87580 36480 |
| 20 | | 21235 54346 45184 85364 13761 66400 |
| 21 | | 1 40888 76581 99136 85229 68389 48096 |
| 22 | 7 | 81045 94572 20302 12280 06803 95968 |
| 23 | 37 | 61194 12942 97831 48729 76804 77376 |
| 24 | 161 | 53503 38966 27282 68778 36978 64000 |

| n | ${}^{26}\mathbf{P}_n^{n-18}$ |
|-----|---|
| 18 | 389 49419 73875 80721 03239 68000 |
| 19 | 9541 74295 84150 27391 52973 82400 |
| 20 | 1 22618 95228 99656 15110 94090 24000 |
| 21 | 10 99453 95165 78159 41861 27126 78400 |
| 22 | 77 21225 94519 37591 47656 41432 38912 |
| 23 | 452 11431 33985 12093 37099 68022 45376 |
| 24 | 2295 09943 68191 05836 24858 31456 36800 |
| n | $-{}^{26}\mathbf{P}_n^{n-19}$ |
| 19 | 17137 74468 50535 51725 42545 92000 |
| 20 | 4 46516 17781 37297 84344 26368 00000 |
| 21 | 60 86987 98315 21480 79447 54519 04000 |
| 22 | 577 61323 71106 94973 46927 29477 88800 |
| 23 | 4283 80169 08036 99364 34435 18232 56576 |
| 24 | 26437 40304 73307 91939 52319 51332 80000 |
| n | ${}^{26}\mathbf{P}_n^{n-20}$ |
| 20 | 7 71198 51082 74098 27644 14566 40000 |
| 21 | 213 10942 69025 89799 07480 27494 40000 |
| 22 | 3073 99377 89840 99396 41514 89889 28000 |
| 23 | 30799 42916 02974 58122 94025 04827 90400 |
| 24 | 2 40705 71200 96787 26975 81348 98223 62624 |
| n | $-{}^{26}\mathbf{P}_n^{n-21}$ |
| 21 | 354 75131 49806 08520 71630 70054 40000 |
| 22 | 10370 89437 94023 29077 23203 62291 20000 |
| 23 | 1 57922 59577 06391 00105 15918 76976 64000 |
| 24 | 16 67094 62462 52145 48129 23146 13543 93600 |
| n | ${}^{26}\mathbf{P}_n^{n-22}$ |
| 22 | 16673 31180 40886 00473 66642 92556 80000 |
| 23 | 5 14476 24201 54003 96180 80416 82534 40000 |
| 24 | 82 52683 43477 67163 01333 60436 54389 76000 |
| n | $-{}^{26}\mathbf{P}_n^{n-23}$ |
| 23 | 8 00318 96659 62528 22735 98860 42726 40000 |
| 24 | 260 09654 82535 08722 35595 39284 86912 00000 |
| n | ${}^{26}\mathbf{P}_n^{n-24}$ |
| 24 | 392 15629 36321 63883 14063 44160 93593 60000 |

TABLEAUX ${}^{27}P_n^r$

| n | $-{}^{27}P_n^{n-1}$ | ${}^{27}P_n^{n-2}$ | $-{}^{27}P_n^{n-3}$ | ${}^{27}P_n^{n-4}$ | $-{}^{27}P_n^{n-5}$ |
|-----|---------------------|--------------------|----------------------|------------------------|---------------------|
| 1 | 27 | | | | |
| 2 | 55 | 756 | | | |
| 3 | 84 | 2351 | 21924 | | |
| 4 | 114 | 4871 | 92454 | 6 57720 | |
| 5 | 145 | 8405 | 2 43455 | 35 23794 | 203 89320 |
| 6 | 177 | 13045 | 5 12415 | 113 14354 | 1331 50728 |
| 7 | 210 | 18886 | 9 42900 | 282 24049 | 5065 24410 |
| 8 | 244 | 26026 | 15 85024 | 602 82649 | 14661 42076 |
| 9 | 279 | 34566 | 24 95934 | 1157 58489 | 35760 34791 |
| 10 | 315 | 44610 | 37 40310 | 2056 12113 | 77433 40395 |
| 11 | 352 | 56265 | 53 90880 | 3440 03583 | 1 53509 88576 |
| 12 | 390 | 69641 | 75 28950 | 5488 57023 | 2 84231 24730 |
| 13 | 429 | 84851 | 102 44949 | 8424 86073 | 4 98285 48627 |
| 14 | 469 | 1 02011 | 136 38989 | 12522 84033 | 8 35279 91547 |
| 15 | 510 | 1 21240 | 178 21440 | 18114 82582 | 13 48716 36900 |
| 16 | 552 | 1 42660 | 229 13520 | 25599 83062 | 21 09539 05344 |
| 17 | 595 | 1 66396 | 290 47900 | 35452 64422 | 32 10331 77010 |
| 18 | 639 | 1 92576 | 363 69324 | 48233 72022 | 47 70248 11578 |
| 19 | 684 | 2 21331 | 450 35244 | 64599 91602 | 69 40765 52568 |
| 20 | 730 | 2 52795 | 552 16470 | 85316 12826 | 99 12361 66260 |
| 21 | 777 | 2 87105 | 670 97835 | 1 11267 86916 | 139 22219 69082 |
| 22 | 825 | 3 24401 | 808 78875 | 1 43474 82996 | 192 63077 41050 |
| 23 | 874 | 3 64826 | 967 74524 | 1 83105 47871 | 262 93344 07854 |
| n | ${}^{27}P_n^{n-6}$ | | $-{}^{27}P_n^{n-7}$ | ${}^{27}P_n^{n-8}$ | |
| 6 | | 6524 58240 | | | |
| 7 | | 50464 32264 | 2 15311 21920 | | |
| 8 | 2 | 22682 62204 | 19 31098 18896 | 73 20581 45280 | |
| 9 | 7 | 35832 34864 | 97 24989 96036 | 749 09018 06640 | |
| 10 | 20 | 23204 87340 | 362 14954 51140 | 4250 08656 63936 | |
| 11 | 48 | 88240 81955 | 1110 73534 82720 | 17649 61973 56116 | |
| 12 | 107 | 21616 47843 | 2968 26685 97010 | 59857 56296 99476 | |
| 13 | 218 | 06635 12313 | 7149 69728 62887 | 1 75619 97049 82866 | |
| 14 | 417 | 38054 57393 | 15872 35133 55407 | 4 61607 86194 98346 | |
| 15 | 759 | 84531 10820 | 32984 95371 08520 | 11 12374 26670 70033 | |
| 16 | 1326 | 30618 60620 | 64898 45677 62960 | 24 97742 32256 27873 | |
| 17 | 2233 | 40797 90412 | 1 21929 62277 69620 | 52 88375 96394 35153 | |
| 18 | 3645 | 95395 78852 | 2 20199 57385 47748 | 106 53279 36612 98433 | |
| 19 | 5792 | 56560 99862 | 3 84267 50195 96088 | 205 62260 18959 47093 | |
| 20 | 8985 | 31775 17990 | 6 50725 52001 89740 | 382 38565 27973 67141 | |
| 21 | 13644 | 12773 32210 | 10 73035 45435 35270 | 688 22664 72062 84921 | |
| 22 | 20326 | 79318 48146 | 17 27953 58554 81350 | 1203 28366 52959 77881 | |
| 23 | 29765 | 70111 59596 | 27 23966 45160 40504 | 2049 98092 22145 64031 | |

| n | $-{}^{27}P_n^{n-9}$ | ${}^{27}P_n^{n-10}$ |
|-----|---------------------------|----------------------------|
| 9 | 2562 20350 84800 | |
| 10 | 29529 45001 23840 | 92239 32630 52800 |
| 11 | 1 86782 65296 89472 | 11 84828 97676 34880 |
| 12 | 8 57468 20292 21880 | 82 82569 78958 34816 |
| 13 | 31 91913 15875 01444 | 417 23829 70354 88136 |
| 14 | 102 16711 97868 16084 | 1694 00356 05355 45896 |
| 15 | 291 42634 31862 48270 | 5882 85547 17950 05340 |
| 16 | 758 62353 52031 89656 | 18122 76188 56174 32680 |
| 17 | 1832 65273 39051 88195 | 50743 57389 93545 87888 |
| 18 | 4159 53815 80403 34927 | 1 31380 29419 11828 68468 |
| 19 | 8953 51387 27987 64412 | 3 18559 51130 29979 40183 |
| 20 | 18412 15356 00123 30690 | 7 30421 14945 17411 03135 |
| 21 | 36384 27924 14885 86317 | 15 95792 36677 23206 45565 |
| 22 | 69419 15830 73902 62525 | 33 42237 77036 37727 88781 |
| 23 | 1 28380 05790 68931 78694 | 67 43776 52742 58956 52506 |

| n | $-{}^{27}P_n^{n-11}$ | ${}^{27}P_n^{n-12}$ |
|-----|------------------------------|---------------------------------|
| 11 | 34 12855 07329 53600 | |
| 12 | 484 36356 19030 79040 | 1296 88492 78522 36800 |
| 13 | 3714 56577 98406 36864 | 20187 06384 20723 19360 |
| 14 | 20404 09766 12601 62304 | 1 68769 69503 56977 93920 |
| 15 | 89858 24364 32175 44040 | 10 05337 69914 73644 48384 |
| 16 | 3 36938 17345 86077 68320 | 47 79383 93216 25012 98064 |
| 17 | 11 16216 93454 01573 73560 | 192 67725 39088 26353 35824 |
| 18 | 33 48934 18611 17592 40632 | 683 81270 51064 95597 72464 |
| 19 | 92 61047 42471 49883 21692 | 2190 83308 88567 87256 00904 |
| 20 | 239 14784 94465 28935 70110 | 6450 91490 42256 81883 98736 |
| 21 | 582 44578 96888 47254 17455 | 17690 86382 82125 41861 93906 |
| 22 | 1348 42612 57395 61164 04575 | 45648 26173 32772 10062 31746 |
| 23 | 2986 12263 32178 09830 54844 | 1 11721 14189 45157 07100 55921 |

| n | $-{}^{27}P_n^{n-13}$ | ${}^{27}P_n^{n-14}$ |
|-----|----------------------------------|-----------------------------------|
| 13 | 50578 51218 62372 35200 | |
| 14 | 8 58061 06586 91300 09600 | 20 23140 48744 94894 08000 |
| 15 | 77 77618 56233 27395 60320 | 372 03644 18808 38198 01600 |
| 16 | 500 01801 92652 20463 92448 | 3638 63623 80605 88813 35040 |
| 17 | 2555 15311 00950 96022 09200 | 25139 41106 64650 68762 10304 |
| 18 | 11032 95228 20834 55569 85456 | 1 37566 14791 06492 93734 15104 |
| 19 | 41804 52401 18757 57467 46336 | 6 34049 00060 44047 94377 60624 |
| 20 | 1 42582 84609 92879 71243 87920 | 25 57057 10515 06896 37880 92080 |
| 21 | 4 45775 84659 78950 19791 28512 | 92 58450 87181 72242 86343 24320 |
| 22 | 12 94937 31035 20970 29164 36000 | 306 55691 50851 61852 36324 92896 |
| 23 | 35 31702 13528 26803 22217 91554 | 941 07619 71576 89396 65378 56896 |

| n | $-{}^{27}P_n^{n-15}$ |
|-----|-------------------------------------|
| 15 | 829 48759 98542 90657 28000 |
| 16 | 16455 01815 88494 94973 95200 |
| 17 | 1 72916 37639 54548 13948 01920 |
| 18 | 12 79050 46331 99178 39480 55296 |
| 19 | 74 69527 11929 91360 57517 34976 |
| 20 | 366 35781 14710 17565 98887 23680 |
| 21 | 1568 17465 08918 41695 79290 51440 |
| 22 | 6012 23106 93641 09353 23766 18800 |
| 23 | 21033 51990 85370 40119 03687 70704 |

| n | ${}^{27}P_n^{n-16}$ |
|-----|---------------------------------------|
| 16 | 34838 47919 38802 07605 76000 |
| 17 | 7 42404 26002 44084 91485 69600 |
| 18 | 83 50724 82142 44203 05198 54080 |
| 19 | 659 07995 67082 07230 81823 42400 |
| 20 | 4095 06243 15858 09817 27621 51296 |
| 21 | 21313 87957 07236 35418 75321 64256 |
| 22 | 96586 26281 35320 36816 81266 33376 |
| 23 | 3 91185 58521 23733 95125 45809 54576 |

| n | $-{}^{27}P_n^{n-17}$ |
|-----|--|
| 17 | 14 98054 60533 68489 27047 68000 |
| 18 | 341 63842 04641 08225 52418 30400 |
| 19 | 4099 46459 01050 97362 86352 64000 |
| 20 | 34417 14259 86826 29980 50230 14400 |
| 21 | 2 26885 07688 32156 91392 48441 25312 |
| 22 | 12 49951 29627 79501 91492 63880 09600 |
| 23 | 59 82678 17414 10199 95516 45930 45024 |

| n | ${}^{27}P_n^{n-18}$ |
|-----|---|
| 18 | 659 14402 63482 13527 90097 92000 |
| 19 | 16032 87294 72330 83676 48921 60000 |
| 20 | 2 04608 24409 20675 62368 21143 04000 |
| 21 | 18 22213 94623 01511 71451 81959 80800 |
| 22 | 127 12697 63662 45043 58291 07139 95776 |
| 23 | 739 60311 15424 40637 41430 37264 66176 |

| n | $-{}^{27}P_n^{n-19}$ |
|-----|--|
| 19 | 29661 48118 56696 08755 54406 40000 |
| 20 | 7 67173 63675 83914 57874 04800 00000 |
| 21 | 103 83761 10908 55668 89179 98522 88000 |
| 22 | 978 50030 52813 28231 18867 32593 66400 |
| 23 | 7207 72214 72273 35366 75129 82451 59424 |

| n | ${}^{27}P_n^{n-20}$ |
|-----|---|
| 20 | 13 64428 13454 08020 02755 02694 40000 |
| 21 | 374 21589 06218 52005 22835 28294 40000 |
| 22 | 5358 42122 29829 24112 03474 57392 64000 |
| 23 | 53304 93618 17680 07440 27973 54482 17600 |

| n | $-{}^{27}P_n^{n-21}$ |
|-----|---|
| 21 | 641 28122 32341 76941 29486 26636 80000 |
| 22 | 18603 64397 30830 73192 25579 84768 00000 |
| 23 | 2 81166 28389 92463 54681 95833 97007 36000 |

| n | ${}^{27}P_n^{n-22}$ |
|-----|---|
| 22 | 30781 49871 52404 93182 15340 78566 40000 |
| 23 | 9 42360 05339 63110 79602 68753 32198 40000 |

| n | $-{}^{27}P_n^{n-23}$ |
|-----|--|
| 23 | 15 08293 43704 67841 65925 51698 49753 60000 |

TABLEAUX ${}^{28}P_n^r$

| n | $-{}^{28}P_n^{n-1}$ | ${}^{28}P_n^{n-2}$ | $-{}^{28}P_n^{n-3}$ | ${}^{28}P_n^{n-4}$ | $-{}^{28}P_n^{n-5}$ |
|-----|---------------------|----------------------|---------------------|------------------------|---------------------|
| 1 | 28 | | | | |
| 2 | 57 | 812 | | | |
| 3 | 87 | 2522 | 24360 | | |
| 4 | 118 | 5219 | 1 02542 | 7 55160 | |
| 5 | 150 | 8995 | 2 69550 | 40 36504 | 241 65120 |
| 6 | 183 | 13945 | 5 66385 | 129 31654 | 1573 69752 |
| 7 | 217 | 20167 | 10 40515 | 321 88744 | 5970 45988 |
| 8 | 252 | 27762 | 17 46360 | 686 06769 | 17236 52028 |
| 9 | 288 | 36834 | 27 45792 | 1314 75729 | 41934 95712 |
| 10 | 325 | 47490 | 41 08650 | 2330 70033 | 90580 97685 |
| 11 | 363 | 59840 | 59 13270 | 3891 98733 | 1 79147 58939 |
| 12 | 402 | 73997 | 82 47030 | 6198 16263 | 3 30935 09526 |
| 13 | 442 | 90077 | 112 06910 | 9496 97463 | 5 78861 60046 |
| 14 | 483 | 1 08199 | 149 00067 | 14091 80773 | 9 68237 56029 |
| 15 | 525 | 1 28485 | 194 44425 | 20349 83587 | 15 60093 48495 |
| 16 | 568 | 1 51060 | 249 69280 | 28710 93862 | 24 35136 42736 |
| 17 | 612 | 1 76052 | 316 15920 | 39697 42182 | 36 98417 72664 |
| 18 | 657 | 2 03592 | 395 38260 | 53924 58582 | 54 84801 70854 |
| 19 | 703 | 2 33814 | 489 03492 | 72112 18542 | 79 65332 65626 |
| 20 | 750 | 2 66855 | 598 92750 | 95096 82666 | 113 54605 37100 |
| 21 | 798 | 3 02855 | 727 01790 | 1 23845 34666 | 159 19253 05068 |
| 22 | 847 | 3 41957 | 875 41685 | 1 59469 22376 | 219 87675 03702 |
| n | ${}^{28}P_n^{n-6}$ | $-{}^{28}P_n^{n-7}$ | ${}^{28}P_n^{n-8}$ | | |
| 6 | 7974 48960 | | | | |
| 7 | 61480 20528 | 2 71132 64640 | | | |
| 8 | 2 70446 30108 | 24 22939 83120 | | 94 89642 62400 | |
| 9 | 8 90961 03116 | 121 59006 67008 | | 967 15476 54720 | |
| 10 | 24 42554 44460 | 451 24564 82300 | | 5465 98723 34016 | |
| 11 | 58 84631 56490 | 1379 41633 71780 | | 22613 32186 61416 | |
| 12 | 128 71387 55111 | 3674 42264 74890 | | 76410 55901 60836 | |
| 13 | 261 08791 36151 | 8822 97766 79330 | | 2 23387 46491 56436 | |
| 14 | 498 42116 98037 | 19527 58212 61521 | | 5 85129 54930 08966 | |
| 15 | 905 08094 51255 | 40461 27125 79075 | | 14 05287 99859 92848 | |
| 16 | 1575 92114 36540 | 79379 75189 83040 | | 31 45122 66268 93073 | |
| 17 | 2647 38117 16924 | 1 48720 28221 90800 | | 66 37831 74621 46833 | |
| 18 | 4311 66914 86804 | 2 67852 43494 52380 | | 133 30244 44607 32833 | |
| 19 | 6834 67793 46088 | 4 66189 21578 45364 | | 256 51456 45355 42313 | |
| 20 | 10578 38428 30510 | 7 87419 07871 11500 | | 475 62349 59542 74421 | |
| 21 | 16028 59486 11310 | 12 95181 52429 75980 | | 853 58465 37356 26421 | |
| 22 | 23829 02885 59642 | 20 80582 67249 30170 | | 1488 22360 06414 49441 | |

| n | $-{}^{28}P_n^{n-9}$ | ${}^{28}P_n^{n-10}$ |
|-----|----------------------------------|-----------------------------------|
| 9 | 3416 27134 46400 | |
| 10 | 39200 99766 71040 | 1 26402 03975 16800 |
| 11 | 2 46908 51253 63648 | 16 16039 95110 16320 |
| 12 | 11 28828 06531 58872 | 112 45471 94001 98592 |
| 13 | 41 85250 42595 92312 | 563 98594 55265 53472 |
| 14 | 133 44136 48750 06188 | 2279 93862 01698 38264 |
| 15 | 379 19577 55813 82760 | 7884 47594 49200 98160 |
| 16 | 983 46961 49790 75224 | 24189 89429 49195 56840 |
| 17 | 2367 32358 65623 70436 | 67462 55735 39988 66696 |
| 18 | 5354 34787 23589 77921 | 1 73992 11874 93055 36316 |
| 19 | 11486 26031 75526 88239 | 4 20292 12087 78185 20682 |
| 20 | 23542 44485 07231 76950 | 9 60146 35580 27948 67915 |
| 21 | 46372 37265 65283 49158 | 20 90183 70863 75073 61515 |
| 22 | 88198 02068 95740 43787 | 43 62429 96880 73964 70257 |
| n | $-{}^{28}P_n^{n-11}$ | ${}^{28}P_n^{n-12}$ |
| 11 | 48 03277 51056 38400 | |
| 12 | 678 28835 60352 74880 | 1873 27822 91198 97600 |
| 13 | 5176 47713 20432 18560 | 29004 81247 05308 92800 |
| 14 | 28299 90089 86319 10912 | 2 41240 37488 43028 53760 |
| 15 | 1 24057 32294 57651 18000 | 14 29836 21262 68431 12064 |
| 16 | 4 63089 78857 73293 38880 | 67 64301 09929 47431 86064 |
| 17 | 15 27445 13755 37898 39840 | 271 40251 79669 72340 96784 |
| 18 | 45 63260 21848 37388 41160 | 958 75282 98661 77768 89584 |
| 19 | 125 66897 68095 17935 11696 | 3057 85253 03686 97635 82944 |
| 20 | 323 20627 36220 92639 83750 | 8964 29444 04160 40586 32656 |
| 21 | 784 07652 44074 34176 43670 | 24478 19557 42764 87298 52656 |
| 22 | 1808 26654 16398 12783 57905 | 62897 94527 02407 61943 92486 |
| n | $-{}^{28}P_n^{n-13}$ | ${}^{28}P_n^{n-14}$ |
| 13 | 74931 12916 47959 04000 | |
| 14 | 12 64128 44045 65625 08800 | 30 72176 29575 66320 64000 |
| 15 | 113 96224 18559 72823 66720 | 561 65570 79493 22574 33600 |
| 16 | 728 79181 32855 15361 85472 | 5462 03210 77561 53992 02560 |
| 17 | 3705 08429 69752 02363 72288 | 37528 87189 23188 29913 63328 |
| 18 | 15918 19760 54889 57707 27568 | 2 04257 66525 62029 36281 16288 |
| 19 | 60020 82777 93331 35076 48432 | 9 36494 75510 86949 90815 84416 |
| 20 | 2 03739 89670 66619 23960 46800 | 37 57473 66073 73523 39410 60720 |
| 21 | 6 34026 02984 66318 72104 14288 | 135 36988 70265 71246 89513 07120 |
| 22 | 18 33457 61298 61797 49731 94432 | 446 04264 16514 20864 22616 07232 |
| n | $-{}^{28}P_n^{n-15}$ | |
| 15 | 1290 31404 42177 85466 88000 | |
| 16 | 25441 50948 60386 56163 32800 | |

| n | $-{}^{28}P_n^{n-15}$ |
|-----|--|
| 17 | 2 65770 92222 73094 31812 45440 |
| 18 | 19 54570 15738 16567 77925 95200 |
| 19 | 113 50422 75916 69918 46859 44448 |
| 20 | 553 65676 24927 56564 15204 12000 |
| 21 | 2357 24411 96466 85687 06913 26560 |
| 22 | 8990 36858 39486 76784 93053 75440 |
| n | ${}^{28}P_n^{n-16}$ |
| 16 | 55483 50390 13647 75075 8'000 |
| 17 | 11 74909 92128 70656 46262 27200 |
| 18 | 131 34601 42151 59900 77822 72000 |
| 19 | 1030 44828 66107 22018 62416 51200 |
| 20 | 6365 14698 34192 08186 64810 40256 |
| 21 | 32940 67158 30715 23265 94608 16256 |
| 22 | 1 48445 63344 57591 21932 33358 17696 |
| n | $-{}^{28}P_n^{n-17}$ |
| 17 | 24 41274 17166 00501 03336 96000 |
| 18 | 553 12220 62957 80041 85139 20000 |
| 19 | 6595 03886 01931 35477 64984 32000 |
| 20 | 55026 10833 08970 70352 98560 38400 |
| 21 | 3 60553 16353 50190 63312 09459 70688 |
| 22 | 19 74646 07110 55237 03343 45259 67232 |
| n | ${}^{28}P_n^{n-18}$ |
| 18 | 1098 57337 72470 22546 50163 20000 |
| 19 | 26542 19486 68529 04471 66566 40000 |
| 20 | 3 36509 02129 59302 71921 20829 44000 |
| 21 | 29 77762 22117 89896 48864 51727 87200 |
| 22 | 206 44867 23439 49237 51157 15253 50912 |
| n | $-{}^{28}P_n^{n-19}$ |
| 19 | 50534 37535 33630 37139 07507 20000 |
| 20 | 12 98017 53409 54495 47307 36128 00000 |
| 21 | 174 50450 55630 01025 99525 35941 12000 |
| 22 | 1633 60799 39407 05953 93886 70606 84800 |
| n | ${}^{28}P_n^{n-20}$ |
| 20 | 23 75115 64160 80627 45536 52838 40000 |
| 21 | 646 79957 27818 96410 16289 86982 40000 |
| 22 | 9197 52034 53689 46683 93032 48097 28000 |

| n | $-{}^{28}P_n^{n-21}$ |
|-----|---|
| 21 | 1140 05550 79718 70117 85753 36243 20000 |
| 22 | 32833 23457 42847 94215 83956 98380 80000 |
| n | ${}^{28}P_n^{n-22}$ |
| 22 | 55862 71989 06216 35775 01914 75916 80000 |

TABLEAUX ${}^{29}P_n^r$

| n | $-{}^{29}P_n^{n-1}$ | ${}^{29}P_n^{n-2}$ | $-{}^{29}P_n^{n-3}$ | ${}^{29}P_n^{n-4}$ | $-{}^{29}P_n^{n-5}$ |
|-----|---------------------|---------------------|---------------------|--------------------|---------------------|
| 1 | 29 | | | | |
| 2 | 59 | 870 | | | |
| 3 | 90 | 2699 | 26970 | | |
| 4 | 122 | 5579 | 1 13338 | 8 63040 | |
| 5 | 155 | 9605 | 2 97445 | 46 03194 | 284 80320 |
| 6 | 189 | 14875 | 6 24015 | 147 16324 | 1849 88916 |
| 7 | 224 | 21490 | 11 44640 | 365 56849 | 7000 60256 |
| 8 | 260 | 29554 | 19 18280 | 777 63889 | 20161 06820 |
| 9 | 297 | 39174 | 30 11778 | 1487 40249 | 48933 70713 |
| 10 | 335 | 50460 | 45 00390 | 2631 87813 | 1 05455 00175 |
| 11 | 374 | 63525 | 64 68330 | 4387 03023 | 2 08098 24882 |
| 12 | 414 | 78485 | 90 09330 | 6974 36223 | 3 83579 45802 |
| 13 | 455 | 95459 | 122 27215 | 10668 18753 | 6 69528 30945 |
| 14 | 497 | 1 14569 | 162 36493 | 15803 61783 | 11 17592 18571 |
| 15 | 540 | 1 35940 | 211 62960 | 22785 30982 | 17 97147 75240 |
| 16 | 584 | 1 59700 | 271 44320 | 32097 01222 | 27 99701 38448 |
| 17 | 629 | 1 85980 | 343 30820 | 44311 95622 | 42 44066 93438 |
| 18 | 675 | 2 14914 | 428 85900 | 60104 13342 | 62 82416 92050 |
| 19 | 722 | 2 46639 | 529 86858 | 80260 50642 | 91 07311 19124 |
| 20 | 770 | 2 81295 | 648 25530 | 1 05694 19826 | 129 59815 49940 |
| 21 | 819 | 3 19025 | 786 08985 | 1 37458 70796 | 181 38831 21414 |
| n | ${}^{29}P_n^{n-6}$ | $-{}^{29}P_n^{n-7}$ | ${}^{29}P_n^{n-8}$ | | |
| 6 | 9683 30880 | | | | |
| 7 | 74429 42940 | 3 38915 80800 | | | |
| 8 | 3 26451 12156 | 30 18375 26640 | | | |
| 9 | 10 72410 64496 | 150 97066 76412 | | | |
| 10 | 29 31891 51590 | 558 48671 27260 | | | |
| 11 | 70 44636 58415 | 1701 92440 39270 | 28756 67570 61276 | | |

| n | ${}^{29}P_n^{n-6}$ | $-{}^{29}P_n^{n-7}$ | ${}^{29}P_n^{n-8}$ |
|-----|------------------------------|-------------------------------|------------------------|
| 12 | 153 68566 53695 | 4519 77903 75870 | 96833 65186 32076 |
| 13 | 310 95324 31577 | 10820 89131 77365 | 2 82144 59240 42746 |
| 14 | 592 15513 31267 | 23880 92753 03599 | 7 36622 02774 92076 |
| 15 | 1072 71977 29820 | 49343 59825 48080 | 17 63501 91155 46833 |
| 16 | 1863 46478 40380 | 96543 26826 60160 | 39 34620 23476 62353 |
| 17 | 3123 33040 70540 | 1 80399 18354 77260 | 82 79067 30673 69553 |
| 18 | 5075 60119 68688 | 3 24072 38227 22100 | 165 77429 74993 23513 |
| 19 | 8028 33714 95038 | 5 62625 63852 50436 | 318 08831 71672 62213 |
| 20 | 12399 84652 12990 | 9 47985 82170 12260 | 588 14862 36592 83141 |
| 21 | 18750 15611 60050 | 15 55578 30124 48770 | 1052 66167 62928 83881 |
| n | $-{}^{29}P_n^{n-9}$ | ${}^{29}P_n^{n-10}$ | |
| 9 | 4514 35856 25600 | | |
| 10 | 51589 08306 15840 | 1 71545 62537 72800 | |
| 11 | 3 23641 14554 43144 | 21 83519 86477 90560 | |
| 12 | 14 73908 17378 94184 | 151 29165 68655 16320 | |
| 13 | 54 44087 90018 09300 | 755 59400 81191 77864 | |
| 14 | 172 94160 78116 04632 | 3042 11092 61951 68464 | |
| 15 | 489 68907 97437 63900 | 10478 60006 20941 67640 | |
| 16 | 1265 62992 08278 24552 | 32024 91957 08197 79240 | |
| 17 | 3036 20902 64726 30437 | 88978 26600 80718 84080 | |
| 18 | 6844 57998 75716 29875 | 2 28643 88122 58128 84182 | |
| 19 | 14635 97197 00398 34986 | 5 50339 14064 16794 88307 | |
| 20 | 29904 21119 40684 21210 | 12 52865 79520 35915 67635 | |
| 21 | 58723 49375 33732 95119 | 27 18172 14371 29442 06925 | |
| n | $-{}^{29}P_n^{n-11}$ | ${}^{29}P_n^{n-12}$ | |
| 11 | 66 90279 38971 39200 | | |
| 12 | 940 31073 98087 61600 | 2676 11175 58855 68000 | |
| 13 | 7143 26867 12949 30720 | 41228 85208 80447 93600 | |
| 14 | 38878 21701 23004 01008 | 3 41246 13628 24318 83840 | |
| 15 | 1 69688 98683 86926 44960 | 20 13009 46781 13491 27184 | |
| 16 | 6 30747 38957 08360 21120 | 94 79324 88871 38255 05424 | |
| 17 | 20 71868 77025 77260 86920 | 378 62957 41940 14464 55824 | |
| 18 | 61 64869 00662 90327 54600 | 1331 68920 85125 68464 54144 | |
| 19 | 169 11131 42424 22383 11154 | 4229 17764 16282 13859 20344 | |
| 20 | 433 27410 17504 28537 49890 | 12346 52072 52644 88248 55736 | |
| 21 | 1047 17834 14001 88405 64005 | 33576 95171 10354 86586 00346 | |
| n | $-{}^{29}P_n^{n-13}$ | ${}^{29}P_n^{n-14}$ | |
| 13 | 1 09720 58199 13082 88000 | | |
| 14 | 18 41332 36968 91896 19200 | 46 08264 44363 49480 96000 | |

| n | $-{}^{29}P_n^{n-13}$ | ${}^{29}P_n^{n-14}$ |
|-----|--|-------------------------------------|
| 15 | 165 14916 22983 37606 24320 | 837 85556 34027 01017 21600 |
| 16 | 1050 87332 81353 31222 20416 | 8104 41870 45295 55691 91680 |
| 17 | 5316 56952 80565 52699 64496 | 55393 71847 06194 60691 10400 |
| 18 | 22733 52994 09812 18069 32400 | 2 99955 91676 12208 84874 77216 |
| 19 | 85322 92274 10719 35902 77168 | 13 68431 82398 73381 34133 00016 |
| 20 | 2 88323 44953 92262 01144 53680 | 54 63932 11555 87910 57466 04080 |
| 21 | 8 93302 96507 71861 25323 84744 | 195 91781 14298 08749 13548 34400 |
| n | $-{}^{29}P_n^{n-15}$ | ${}^{29}P_n^{n-16}$ |
| 15 | 1981 55371 07630 27681 28000 | 87188 36327 35732 17976 32000 |
| 16 | 38847 19850 04818 72438 78400 | 18 35312 29579 52574 77721 60000 |
| 17 | 4 03546 04020 43118 78575 04000 | 203 98430 14519 36038 92173 44000 |
| 18 | 29 51657 08985 28070 70365 82400 | 1591 26313 36827 55361 99367 16800 |
| 19 | 170 49585 17763 01886 59480 11552 | 9775 06401 89452 45918 54412 71296 |
| 20 | 827 34312 72902 24190 97864 12320 | 50314 87725 61662 31276 49754 74976 |
| n | $-{}^{29}P_n^{n-17}$ | |
| 17 | 39 23476 34731 07948 08934 40000 | |
| 18 | 883 47841 95389 26387 84128 00000 | |
| 19 | 10470 74058 77799 20217 16279 68000 | |
| 20 | 86851 37100 45521 77592 85903 74400 | |
| 21 | 5 65829 50793 28692 27601 52126 67904 | |
| n | ${}^{29}P_n^{n-18}$ | |
| 18 | 1804 79911 97629 65612 10982 40000 | |
| 19 | 43328 28483 80925 05840 64998 40000 | |
| 20 | 5 45923 83305 15286 76264 46423 04000 | |
| 21 | 48 01641 01227 45853 78314 55706 49600 | |
| n | $-{}^{29}P_n^{n-19}$ | |
| 19 | 84825 55862 88593 83769 16172 80000 | |
| 20 | 21 64583 23085 72996 64120 36096 00000 | |
| 21 | 289 14851 05038 22048 01079 10824 96000 | |
| n | ${}^{29}P_n^{n-20}$ | |
| 20 | 40 71626 81418 52504 20919 76294 40000 | |
| 21 | 1101 36205 12619 29339 62817 44998 40000 | |
| n | $-{}^{29}P_n^{n-21}$ | |
| 21 | 1995 09713 89507 72706 25068 38425 60000 | |

TABLEAUX ${}^{30}P_n^r$

| n | $-{}^{30}P_n^{n-1}$ | ${}^{30}P_n^{n-2}$ | $-{}^{30}P_n^{n-3}$ | ${}^{30}P_n^{n-4}$ | $-{}^{30}P_n^{n-5}$ |
|-----|---------------------|--------------------|---------------------|--------------------|---------------------|
| 1 | 30 | | | | |
| 2 | 61 | 930 | | | |
| 3 | 93 | 2882 | 29760 | | |
| 4 | 126 | 5951 | 1 24866 | 9 82080 | |
| 5 | 160 | 10235 | 3 27200 | 52 27524 | 333 90720 |
| 6 | 195 | 15835 | 6 85425 | 166 79524 | 2163 54060 |
| 7 | 231 | 22855 | 12 55485 | 413 54824 | 8168 16924 |
| 8 | 268 | 31402 | 21 01120 | 878 07769 | 23469 45412 |
| 9 | 306 | 41586 | 32 94396 | 1676 50329 | 56836 40634 |
| 10 | 345 | 53520 | 49 16250 | 2961 31773 | 1 22220 03465 |
| 11 | 385 | 67320 | 70 57050 | 4927 81773 | 2 40672 74385 |
| 12 | 426 | 83105 | 98 17170 | 7821 20823 | 4 42713 27078 |
| 13 | 468 | 1 00997 | 133 07580 | 11944 41963 | 7 71204 01644 |
| 14 | 511 | 1 21121 | 176 50451 | 17666 67903 | 12 84814 06053 |
| 15 | 555 | 1 43605 | 229 79775 | 25432 87747 | 20 62147 93785 |
| 16 | 600 | 1 68580 | 294 42000 | 35773 77622 | 32 06627 42400 |
| 17 | 646 | 1 96180 | 371 96680 | 49317 09622 | 48 52221 13012 |
| 18 | 693 | 2 26542 | 464 17140 | 66799 53582 | 71 70124 65246 |
| 19 | 741 | 2 59806 | 572 91156 | 89079 76302 | 103 76502 37182 |
| 20 | 790 | 2 96115 | 700 21650 | 1 17152 42946 | 147 41410 75980 |

| n | ${}^{30}P_n^{n-6}$ | $-{}^{30}P_n^{n-7}$ | ${}^{30}P_n^{n-8}$ |
|-----|--------------------|----------------------|-----------------------|
| 6 | 11686 75200 | | |
| 7 | 89574 21360 | 4 20723 07200 | |
| 8 | 3 91796 47548 | 37 34968 97520 | 155 66753 66400 |
| 9 | 12 83635 73204 | 186 23235 04344 | 1574 95574 72160 |
| 10 | 35 00255 57930 | 686 85028 59300 | 8838 01741 41576 |
| 11 | 83 89056 96530 | 2086 95251 76500 | 36312 02885 13576 |
| 12 | 182 56639 46315 | 5526 46587 34230 | 1 21877 08207 50076 |
| 13 | 368 50596 83591 | 13194 25444 79460 | 3 53988 64875 87736 |
| 14 | 700 12369 54283 | 29040 01108 73873 | 9 21341 59002 04516 |
| 15 | 1265 44188 20615 | 59845 45368 62325 | 21 99102 07786 54928 |
| 16 | 2193 40845 40940 | 1 16790 33837 90000 | 48 92147 49374 59553 |
| 17 | 3668 45706 91340 | 2 17687 12726 73240 | 102 64503 05917 99553 |
| 18 | 5949 00100 02904 | 3 90104 60951 66220 | 204 95798 04074 41833 |
| 19 | 9390 66083 34712 | 6 75656 65753 05612 | 392 20819 29754 20393 |
| 20 | 14475 14699 56630 | 11 35799 03837 06500 | 723 27995 51653 95381 |

| n | $-{}^{30}P_n^{n-9}$ | ${}^{30}P_n^{n-10}$ |
|-----|---------------------|---------------------|
| 9 | 5915 36639 23200 | |

| n | $-{}^{30}P_n^{n-9}$ | ${}^{30}P_n^{n-10}$ |
|-----|-------------------------|----------------------------|
| 10 | 67338 64053 37440 | 2 30699 28930 04800 |
| 11 | 4 20859 33710 00480 | 29 24244 91065 02400 |
| 12 | 19 09652 52000 57096 | 201 79477 73175 22080 |
| 13 | 70 28489 96715 60288 | 1003 84883 57199 20112 |
| 14 | 222 50001 86378 32936 | 4026 09952 15970 12496 |
| 15 | 627 89031 82468 31640 | 13816 10034 16616 61680 |
| 16 | 1617 48625 32863 03400 | 42071 16466 27690 85480 |
| 17 | 3867 87410 04094 42838 | 1 16475 53231 39390 41880 |
| 18 | 8692 19053 82240 21829 | 2 98265 61503 31828 55266 |
| 19 | 18530 17359 77812 29813 | 7 15490 76086 79359 03058 |
| 20 | 37748 37505 35768 29070 | 16 23469 26715 92161 63895 |

| n | $-{}^{30}P_n^{n-11}$ | ${}^{30}P_n^{n-12}$ |
|-----|-----------------------------|-------------------------------|
| 11 | 92 27971 57201 92000 | |
| 12 | 1291 22012 90867 90400 | 3783 46834 45278 72000 |
| 13 | 9766 60077 64227 17760 | 58014 71376 61730 68800 |
| 14 | 52932 10071 23792 82576 | 4 77978 54715 23499 32480 |
| 15 | 2 30080 47966 26478 32400 | 28 06990 97849 70383 65824 |
| 16 | 8 51804 99503 74226 08000 | 131 60612 56331 61908 23824 |
| 17 | 27 87078 56952 48005 40080 | 523 43642 33503 76307 91824 |
| 18 | 82 61428 58827 99355 08440 | 1833 36335 10270 32561 75584 |
| 19 | 225 78178 10987 27125 61208 | 5798 84907 34014 01605 80704 |
| 20 | 576 37225 39240 15718 11050 | 16862 15634 72390 30760 79896 |

| n | $-{}^{30}P_n^{n-13}$ | ${}^{30}P_n^{n-14}$ |
|-----|---------------------------------|----------------------------------|
| 13 | 1 58905 67047 01706 24000 | |
| 14 | 26 53538 36241 56125 82400 | 68 32943 83021 73368 32000 |
| 15 | 236 84594 43711 90096 11520 | 1235 88631 77650 42904 57600 |
| 16 | 1499 99188 46948 57360 73600 | 11893 95381 44685 97229 76000 |
| 17 | 7553 87366 38203 05139 69504 | 80893 58051 04320 35823 61600 |
| 18 | 32155 38556 12879 91611 85232 | 4 35925 64270 99863 77389 28288 |
| 19 | 1 20156 82641 05855 54576 13264 | 19 79384 14965 18099 74758 19424 |
| 20 | 4 04300 43100 72542 33260 67760 | 78 67068 64377 05021 48988 69360 |

| n | $-{}^{30}P_n^{n-15}$ | ${}^{30}P_n^{n-16}$ |
|-----|------------------------------------|-------------------------------------|
| 15 | 3006 49528 52956 28206 08000 | |
| 16 | 58621 37958 47225 58912 00000 | 1 35292 28783 83032 69273 60000 |
| 17 | 6 05743 25505 02780 31480 96000 | 28 31875 74873 55409 79225 60000 |
| 18 | 44 07741 53904 05837 15190 91200 | 313 01808 73609 86084 58830 72000 |
| 19 | 253 32172 38911 99298 29876 49024 | 2428 73402 61004 66267 87994 49600 |
| 20 | 1223 21995 72205 86185 93028 00800 | 14841 49849 67692 31884 51942 51776 |

| n | $-{}^{30}P_n^{n-17}$ |
|-----|--|
| 17 | 62 23445 24056 19503 86585 60000 |
| 18 | 1393 21605 43113 23764 10188 80000 |
| 19 | 16418 08424 76386 55824 34063 36000 |
| 20 | 1 35426 05152 65615 02950 45793 66400 |
| n | ${}^{30}P_n^{n-18}$ |
| 18 | 2925 01926 30641 16681 69523 20000 |
| 19 | 69799 38987 00076 57358 58585 60000 |
| 20 | 8 74285 51800 43017 92751 27690 24000 |
| n | $-{}^{30}P_n^{n-19}$ |
| 19 | 1 40400 92462 70776 00721 37113 60000 |
| 20 | 35 60571 02825 74528 11292 07808 00000 |
| n | ${}^{30}P_n^{n-20}$ |
| 20 | 68 79645 30672 68024 35347 18566 40000 |

TABLEAUX ${}^{31}P_n^r$

| n | $-{}^{31}P_n^{n-1}$ | ${}^{31}P_n^{n-2}$ | $-{}^{31}P_n^{n-3}$ | ${}^{31}P_n^{n-4}$ | $-{}^{31}P_n^{n-5}$ |
|-----|---------------------|--------------------|---------------------|--------------------|---------------------|
| 1 | 31 | | | | |
| 2 | 63 | 992 | | | |
| 3 | 96 | 3071 | 32736 | | |
| 4 | 130 | 6335 | 1 37150 | 11 13024 | |
| 5 | 165 | 10885 | 3 58875 | 59 13274 | 389 55840 |
| 6 | 201 | 16825 | 7 50735 | 188 32774 | 2518 33704 |
| 7 | 238 | 24262 | 13 73260 | 466 09969 | 9486 46342 |
| 8 | 276 | 33306 | 22 95216 | 987 93849 | 27198 25164 |
| 9 | 315 | 44070 | 35 94150 | 1883 07273 | 65727 85275 |
| 10 | 355 | 56670 | 53 56950 | 3320 73273 | 1 41050 76195 |
| 11 | 396 | 71225 | 76 80420 | 5517 08223 | 2 77200 80388 |
| 12 | 438 | 87857 | 106 71870 | 8742 85863 | 5 08918 25754 |
| 13 | 481 | 1 06691 | 144 49721 | 13331 76273 | 8 84861 17863 |
| 14 | 525 | 1 27855 | 191 44125 | 19689 63997 | 14 71458 73875 |
| 15 | 570 | 1 51480 | 248 97600 | 28304 49622 | 23 57492 53740 |
| 16 | 616 | 1 77700 | 318 65680 | 39757 39222 | 36 59499 36352 |
| 17 | 663 | 2 06652 | 402 17580 | 54734 26182 | 55 28096 79786 |
| 18 | 711 | 2 38476 | 501 36876 | 74038 70022 | 81 55341 36522 |
| 19 | 760 | 2 73315 | 618 22200 | 98605 76946 | 117 83237 67600 |

| n | ${}^{31}P_n^{n-6}$ | $-{}^{31}P_n^{n-7}$ | ${}^{31}P_n^{n-8}$ |
|-----|-------------------------------|---------------------------------|-----------------------|
| 6 | 14024 10240 | | |
| 7 | 1 07202 57288 | 5 18891 78880 | |
| 8 | 4 67688 18284 | 45 92589 55824 | 197 17887 97440 |
| 9 | 15 28419 99680 | 228 32428 68900 | 1988 28880 74576 |
| 10 | 41 57534 10680 | 839 69228 56100 | 11121 26028 30576 |
| 11 | 99 40615 34675 | 2544 28126 93980 | 45548 64399 30676 |
| 12 | 215 83049 10971 | 6719 33971 50330 | 1 52408 45730 77836 |
| 13 | 434 66534 18393 | 16000 05083 22083 | 4 41340 06505 42026 |
| 14 | 824 00426 04365 | 35125 32587 31375 | 11 45342 30167 13678 |
| 15 | 1486 16069 28740 | 72205 51759 27800 | 27 25981 96596 25553 |
| 16 | 2570 60726 00780 | 1 40568 90946 49840 | 60 47435 77523 04353 |
| 17 | 4290 57196 09324 | 2 61387 45068 86500 | 126 54174 52008 46833 |
| 18 | 6944 05842 39052 | 4 67334 90481 34052 | 252 00772 15313 98833 |
| 19 | 10940 17569 28630 | 8 07593 76758 47600 | 481 00182 48899 67381 |
| n | $-{}^{31}P_n^{n-9}$ | ${}^{31}P_n^{n-10}$ | |
| 9 | 7689 97631 00160 | | |
| 10 | 87221 52860 83200 | 3 07599 05240 06400 | |
| 11 | 5 43193 20021 36816 | 38 83681 72534 17600 | |
| 12 | 24 56236 24792 25208 | 266 97796 13431 63872 | |
| 13 | 90 09799 91215 72156 | 1323 15954 79498 47816 | |
| 14 | 284 28762 77454 21300 | 5287 47150 92990 22680 | |
| 15 | 799 69166 34975 36810 | 18080 41475 78429 81180 | |
| 16 | 2053 64336 78403 12248 | 54866 23127 87296 74440 | |
| 17 | 4895 93818 21986 16839 | 1 51387 46956 72243 50096 | |
| 18 | 10969 94195 18392 64823 | 3 86392 50231 27579 58368 | |
| 19 | 23318 32030 68778 07640 | 9 23919 65795 28819 34695 | |
| n | $-{}^{31}P_n^{n-11}$ | ${}^{31}P_n^{n-12}$ | |
| 11 | 126 11561 14842 62400 | | |
| 12 | 1757 26193 61278 01600 | 5296 85568 23390 20800 | |
| 13 | 13237 31427 38838 48096 | 80859 11893 58344 89600 | |
| 14 | 71456 33438 36771 52000 | 6 63300 94698 67238 05824 | |
| 15 | 3 09392 55230 21331 72600 | 38 78835 99425 21956 45824 | |
| 16 | 11 41091 63116 29103 06880 | 181 10893 40015 03215 85424 | |
| 17 | 37 19804 50126 32050 05560 | 717 42200 06480 71060 08784 | |
| 18 | 109 86403 04048 99738 10168 | 2502 92816 12544 09462 75654 | |
| 19 | 299 19635 65381 51137 70200 | 7886 26565 10944 96629 73896 | |
| n | $-{}^{31}P_n^{n-13}$ | ${}^{31}P_n^{n-14}$ | |
| 13 | 2 27764 79434 05778 94400 | | |
| 14 | 37 85566 02751 72954 36800 | 100 21650 95098 54273 53600 | |
| 15 | 336 34108 64191 98666 98880 | 1803 72122 18926 37220 09600 | |
| 16 | 2120 60564 37752 08664 06784 | 17275 41119 71757 75901 58080 | |
| 17 | 10632 72554 18458 59809 21712 | 1 16943 87645 46105 83112 76928 | |

| n | $-{}^{31}P_n^{n-13}$ | ${}^{31}P_n^{n-14}$ |
|-----|---------------------------------|----------------------------------|
| 18 | 45068 98157 29532 70693 43344 | 6 27314 70246 32118 53955 19104 |
| 19 | 1 67712 46147 44193 34368 50880 | 28 35694 79953 79221 17933 42960 |

| n | $-{}^{31}P_n^{n-15}$ | ${}^{31}P_n^{n-16}$ |
|-----|-----------------------------------|------------------------------------|
| 15 | 4509 74292 79434 42309 12000 | |
| 16 | 87480 91913 50047 54433 53600 | 2 07448 17468 53983 46219 52000 |
| 17 | 8 99425 24540 22662 21807 83360 | 43 19051 37403 06218 04595 71200 |
| 18 | 65 12731 31522 35742 11220 75904 | 474 91463 15333 94004 51371 72480 |
| 19 | 372 51151 73592 09550 55025 12000 | 3666 15297 59929 45368 01188 91776 |

| n | $-{}^{31}P_n^{n-17}$ |
|-----|-------------------------------------|
| 17 | 97 50064 21021 37222 72317 44000 |
| 18 | 2170 64530 16368 35688 92911 61600 |
| 19 | 25441 46224 67731 41910 10126 13120 |

| n | ${}^{31}P_n^{n-18}$ |
|-----|---------------------------------------|
| 18 | 4680 03082 09025 86690 71237 12000 |
| 19 | 1 11041 65060 11075 35448 23906 30400 |

| n | $-{}^{31}P_n^{n-19}$ |
|-----|---------------------------------------|
| 19 | 2 29321 51022 42267 47844 90618 88000 |

TABLEAUX ${}^{32}P_n^r$

| n | $-{}^{32}P_n^{n-1}$ | ${}^{32}P_n^{n-2}$ | $-{}^{32}P_n^{n-3}$ | ${}^{32}P_n^{n-4}$ | $-{}^{32}P_n^{n-5}$ |
|-----|---------------------|--------------------|---------------------|--------------------|---------------------|
| 1 | 32 | | | | |
| 2 | 65 | 1056 | | | |
| 3 | 99 | 3266 | 35904 | | |
| 4 | 134 | 6731 | 1 50214 | 12 56640 | |
| 5 | 170 | 11555 | 3 92530 | 66 64344 | 452 39040 |
| 6 | 207 | 17845 | 8 20065 | 211 87954 | 2918 19768 |
| 7 | 245 | 25711 | 14 98175 | 523 50424 | 10969 62020 |
| 8 | 284 | 35266 | 25 00904 | 1107 79249 | 31386 28556 |
| 9 | 324 | 46626 | 39 11544 | 2108 15409 | 75697 98516 |
| 10 | 365 | 59910 | 58 23210 | 3711 88713 | 1 62132 30285 |

| n | $-{}^{32}P_n^{n-1}$ | ${}^{32}P_n^{n-2}$ | $-{}^{32}P_n^{n-3}$ | ${}^{32}P_n^{n-4}$ | $-{}^{32}P_n^{n-5}$ |
|-----|---------------------|-------------------------|------------------------------|-----------------------|---------------------|
| 11 | 407 | 75240 | 83 39430 | 6157 63533 | 3 18031 56231 |
| 12 | 450 | 92741 | 115 74750 | 9743 59023 | 5 82809 88150 |
| 13 | 494 | 1 12541 | 156 55354 | 14836 48023 | 10 11527 85162 |
| 14 | 539 | 1 34771 | 207 19699 | 21881 38953 | 16 79169 46197 |
| 15 | 585 | 1 59565 | 269 19165 | 31412 45107 | 26 85713 38035 |
| 16 | 632 | 1 87060 | 344 18720 | 44064 45862 | 41 62098 58064 |
| 17 | 680 | 2 17396 | 433 97600 | 60585 44422 | 62 77192 59440 |
| 18 | 729 | 2 50716 | 540 50004 | 81850 26822 | 92 45879 36118 |
| n | ${}^{32}P_n^{n-6}$ | | $-{}^{32}P_n^{n-7}$ | | ${}^{32}P_n^{n-8}$ |
| 6 | | 16738 44480 | | | |
| 7 | 1 | 27629 95664 | 6 36060 90240 | | |
| 8 | 5 | 55445 14444 | 56 13629 21136 | 248 06375 19360 | |
| 9 | 18 | 10896 56684 | 278 31434 98896 | 2493 51543 64800 | |
| 10 | 49 | 14513 95840 | 1020 78194 22940 | 13904 40378 19536 | |
| 11 | 117 | 24070 67810 | 3084 87780 48220 | 56777 24535 83016 | |
| 12 | 253 | 99427 85743 | 8126 22819 64050 | 1 89426 99096 56476 | |
| 13 | 510 | 43062 64343 | 19301 97645 36742 | 5 46981 03160 74676 | |
| 14 | 965 | 61815 96633 | 42271 35464 32177 | 14 15569 97202 28066 | |
| 15 | 1738 | 03611 21695 | 86689 78998 77295 | 33 60052 28561 08208 | |
| 16 | 3000 | 32140 09340 | 1 68377 48725 96960 | 74 34472 41503 41073 | |
| 17 | 4998 | 12871 96412 | 3 12392 91450 45280 | 155 16591 80349 95153 | |
| 18 | 8073 | 95309 08972 | 5 57301 22176 69468 | 308 23844 61422 13873 | |
| n | | $-{}^{32}P_n^{n-9}$ | | ${}^{32}P_n^{n-10}$ | |
| 9 | | 9922 55007 74400 | | | |
| 10 | 1 | 12156 68297 31200 | 4 06824 55317 50400 | | |
| 11 | 6 | 96141 64181 51712 | 51 17405 23804 60800 | | |
| 12 | 31 | 37563 19222 21400 | 350 51495 83609 84416 | | |
| 13 | 114 | 72350 79471 06344 | 1731 04276 29387 26016 | | |
| 14 | 360 | 86497 21704 66764 | 6893 60062 05585 11496 | | |
| 15 | 1012 | 02715 93009 57800 | 23493 38934 03999 82640 | | |
| 16 | 2591 | 25173 35380 43576 | 71058 66582 75449 99240 | | |
| 17 | 6159 | 79849 27544 15080 | 1 95438 74903 73710 90888 | | |
| 18 | 13762 | 92847 64691 77577 | 4 97268 87518 23374 29808 | | |
| n | | $-{}^{32}P_n^{n-11}$ | | ${}^{32}P_n^{n-12}$ | |
| 11 | | 170 86631 23335 16800 | | | |
| 12 | 2371 | 35056 46933 31200 | 7347 25143 03412 22400 | | |
| 13 | 17794 | 00873 25766 45504 | 1 11686 67627 68477 95200 | | |
| 14 | 95690 | 93306 48193 16224 | 9 12417 06924 27968 42880 | | |
| 15 | 4 | 12796 56161 05108 45040 | 53 14199 99022 44853 89184 | | |
| 16 | 15 | 16985 86060 93100 29120 | 247 15638 38591 84951 06064 | | |
| 17 | 49 | 27801 82033 14699 92640 | 975 30959 69516 53765 03824 | | |
| 18 | 145 | 04300 52316 26534 46152 | 3389 93248 89140 74061 43184 | | |

| n | $-{}^{32}P_n^{n-13}$ | ${}^{32}P_n^{n-14}$ |
|-----|------------------------------------|------------------------------------|
| 13 | 3 23279 06293 50137 85600 | |
| 14 | 53 49179 49539 31645 69600 | 145 47557 83207 56203 52000 |
| 15 | 473 20364 68056 18193 42080 | 2606 09814 62016 11905 53600 |
| 16 | 2970 87764 22111 26326 33728 | 24846 66954 60656 66996 31360 |
| 17 | 14834 38406 74520 03977 24800 | 1 67448 79637 21997 30660 50304 |
| 18 | 62624 55431 80830 38464 12176 | 8 94333 61567 73479 25545 65504 |
| n | $-{}^{32}P_n^{n-15}$ | ${}^{32}P_n^{n-16}$ |
| 15 | 6691 87660 27547 85361 92000 | |
| 16 | 1 29178 48947 42305 44922 11200 | 3 14518 20032 94749 12010 24000 |
| 17 | 13 21818 62768 53825 60745 16480 | 65 15085 69509 25410 68271 61600 |
| 18 | 95 26809 64992 31693 63109 81376 | 712 84198 45167 62865 44784 69120 |
| n | $-{}^{32}P_n^{n-17}$ | ${}^{32}P_n^{n-18}$ |
| 17 | 150 96873 61581 47957 76491 52000 | |
| 18 | 3343 36072 67534 93081 21800 70400 | 7397 46807 17492 49930 48084 48000 |

TABLEAUX ${}^{33}P_n^r$

| n | $-{}^{33}P_n^{n-1}$ | ${}^{33}P_n^{n-2}$ | $-{}^{33}P_n^{n-3}$ | ${}^{33}P_n^{n-4}$ | $-{}^{33}P_n^{n-5}$ | ${}^{33}P_n^{n-6}$ |
|-----|---------------------|--------------------|---------------------|--------------------|---------------------|--------------------|
| 1 | 33 | | | | | |
| 2 | 67 | 1122 | | | | |
| 3 | 102 | 3467 | 39270 | | | |
| 4 | 138 | 7139 | 1 64082 | 14 13720 | | |
| 5 | 175 | 12245 | 4 28225 | 74 84754 | 523 07640 | |
| 6 | 213 | 18895 | 8 93535 | 237 57304 | 3367 28292 | 19876 90320 |
| 7 | 252 | 27202 | 16 30440 | 586 05169 | 12632 63148 | 1 51200 93708 |
| 8 | 292 | 37282 | 27 18520 | 1238 22769 | 36074 69908 | 6 56506 19628 |
| 9 | 333 | 49254 | 42 47082 | 2352 82089 | 86842 03437 | 21 35568 85856 |
| 10 | 375 | 63240 | 63 15750 | 4136 59533 | 1 85660 51175 | 57 82934 30210 |
| 11 | 418 | 79365 | 90 35070 | 6852 36783 | 3 63534 11094 | 137 66336 30735 |
| 12 | 462 | 97757 | 125 27130 | 10827 79863 | 6 65038 29546 | 297 61837 18871 |
| 13 | 507 | 1 18547 | 169 26195 | 16465 00713 | 11 52289 23381 | 596 88560 48441 |
| 14 | 553 | 1 41869 | 223 79357 | 24251 05683 | 19 09679 56179 | 1126 93865 23967 |
| 15 | 600 | 1 67860 | 290 47200 | 34769 35462 | 30 49479 23280 | 2024 48804 64380 |
| 16 | 648 | 1 96660 | 371 04480 | 48712 01062 | 47 18408 25456 | 3488 23807 81820 |
| 17 | 697 | 2 28412 | 467 40820 | 66893 20582 | 71 05296 77494 | 5800 25812 29164 |

| n | $-{}^{33}P_n^{n-7}$ | ${}^{33}P_n^{n-8}$ | $-{}^{33}P_n^{n-9}$ |
|-----|---------------------|-----------------------|------------------------|
| 7 | 7 75199 22480 | | |
| 8 | 68 23236 70800 | 310 07968 99200 | |
| 9 | 337 39990 75548 | 3107 60674 02000 | 12713 26728 67200 |
| 10 | 1234 33882 81500 | 17278 40285 75016 | 1 43232 75037 51200 |
| 11 | 3721 00057 80530 | 70354 97246 79516 | 8 86204 07324 76888 |
| 12 | 9778 18855 32870 | 2 34078 99790 22836 | 39 81822 86183 75592 |
| 13 | 23171 01528 82065 | 6 74097 48280 01986 | 145 15377 76744 03212 |
| 14 | 50627 75311 10351 | 17 39964 18605 76976 | 455 23861 97624 94568 |
| 15 | 1 03593 86977 36800 | 41 19468 58227 63473 | 1273 02178 72096 12440 |
| 16 | 2 00769 29600 27040 | 90 91974 33141 29873 | 3250 36670 67022 59144 |
| 17 | 3 71692 96183 36220 | 189 29669 83554 54833 | 7705 43412 90946 22921 |

| n | ${}^{33}P_n^{n-10}$ | $-{}^{33}P_n^{n-11}$ |
|-----|---------------------------|----------------------------|
| 10 | 5 33957 22604 22400 | |
| 11 | 66 92965 49217 24000 | 229 60160 71981 63200 |
| 12 | 456 85944 71507 07072 | 3174 50642 37540 19200 |
| 13 | 2248 67973 49776 08712 | 23733 18154 55358 37440 |
| 14 | 8925 75350 80001 56464 | 1 27172 44935 45058 38192 |
| 15 | 30321 96863 68374 01160 | 5 46682 86423 05131 92000 |
| 16 | 91427 01442 28987 98280 | 20 02137 35879 87084 47680 |
| 17 | 2 50694 98305 13094 96336 | 64 82061 06552 07495 63400 |

| n | ${}^{33}P_n^{n-12}$ | $-{}^{33}P_n^{n-13}$ |
|-----|------------------------------|-------------------------------|
| 12 | 10102 47071 67191 80800 | |
| 13 | 1 52955 25978 56500 44800 | 4 54611 18225 23631 36000 |
| 14 | 12 44681 61088 02985 67040 | 74 90553 13239 22651 96800 |
| 15 | 72 21786 73054 20729 62064 | 659 90588 84376 62978 47680 |
| 16 | 334 62564 21360 67061 78064 | 4126 36351 90978 58000 26752 |
| 17 | 1315 67294 79474 34201 14384 | 20523 01998 37651 44027 51888 |

| n | ${}^{33}P_n^{n-14}$ | $-{}^{33}P_n^{n-15}$ |
|-----|---------------------------------|----------------------------------|
| 14 | 209 12114 38360 87042 56000 | |
| 15 | 3729 68111 60604 51685 05600 | 9828 69376 02960 91000 32000 |
| 16 | 35405 16376 10682 74651 94240 | 1 88853 38733 11977 71883 00800 |
| 17 | 2 37596 97619 68633 16665 05088 | 19 23706 41162 35432 29828 18560 |

| n | ${}^{33}P_n^{n-16}$ | $-{}^{33}P_n^{n-17}$ |
|-----|----------------------------------|-----------------------------------|
| 16 | 4 71777 30049 42123 68015 36000 | |
| 17 | 97 25593 27972 29031 90282 75200 | 231 17087 72421 64060 32752 64000 |

TABLEAUX ${}^{34}P_n^r$

| n | $-{}^{34}P_n^{n-1}$ | ${}^{34}P_n^{n-2}$ | $-{}^{34}P_n^{n-3}$ | ${}^{34}P_n^{n-4}$ | $-{}^{34}P_n^{n-5}$ | ${}^{34}P_n^{n-6}$ |
|-----|---------------------|--------------------|---------------------|--------------------|---------------------|--------------------|
| 1 | 34 | | | | | |
| 2 | 69 | 1190 | | | | |
| 3 | 105 | 3674 | 42840 | | | |
| 4 | 142 | 7559 | 1 78778 | 15 85080 | | |
| 5 | 180 | 12955 | 4 66020 | 83 78644 | 602 33040 | |
| 6 | 219 | 19975 | 9 71265 | 265 53424 | 3870 00156 | 23490 88560 |
| 7 | 259 | 28735 | 17 70265 | 654 04024 | 14491 37116 | 1 78290 94800 |
| 8 | 300 | 39354 | 29 48400 | 1379 84889 | 41307 02100 | 7 72437 16556 |
| 9 | 342 | 51954 | 46 01268 | 2618 17689 | 99260 67438 | 25 07332 04756 |
| 10 | 385 | 66660 | 68 35290 | 4596 72213 | 2 11842 28065 | 67 75541 04590 |
| 11 | 429 | 83600 | 97 68330 | 7604 24973 | 4 14098 05437 | 160 96601 39450 |
| 12 | 474 | 1 02905 | 135 30330 | 11999 99823 | 7 56289 29222 | 347 31013 84115 |
| 13 | 520 | 1 24709 | 182 63960 | 18223 95003 | 13 08289 21080 | 695 20321 28327 |
| 14 | 567 | 1 49149 | 241 25283 | 26808 01123 | 21 64814 86221 | 1310 09914 19087 |
| 15 | 615 | 1 76365 | 312 84435 | 38388 14707 | 34 51599 40125 | 2349 21027 57695 |
| 16 | 664 | 2 06500 | 399 26320 | 53717 52022 | 53 32618 60768 | 4040 49398 23820 |

| n | $-{}^{34}P_n^{n-7}$ | ${}^{34}P_n^{n-8}$ | $-{}^{34}P_n^{n-9}$ |
|-----|---------------------|-----------------------|------------------------|
| 7 | 9 39635 42400 | | |
| 8 | 82 49564 29200 | 385 25052 38400 | |
| 9 | 406 91925 24552 | 3850 06752 64800 | 16180 52200 12800 |
| 10 | 1485 07203 29060 | 21347 59538 20536 | 1 81733 42563 99200 |
| 11 | 4466 31009 31020 | 86690 76482 99176 | 11 21027 62245 02784 |
| 12 | 11709 78072 06270 | 2 87674 71901 95076 | 50 22112 03979 65704 |
| 13 | 27686 04708 75560 | 8 26324 63216 83496 | 182 55149 11469 39200 |
| 14 | 60360 59809 06929 | 21 27568 84528 34816 | 570 92406 82660 63512 |
| 15 | 1 23245 35690 23105 | 50 24877 55363 67408 | 1592 15711 40021 34680 |
| 16 | 2 38356 66041 50160 | 110 63900 04184 99553 | 4054 34711 52841 37672 |

| n | ${}^{34}P_n^{n-10}$ | $-{}^{34}P_n^{n-11}$ |
|-----|---------------------------|----------------------------|
| 10 | 6 95762 44605 50400 | |
| 11 | 86 92033 17421 15200 | 306 13547 62642 17600 |
| 12 | 591 38276 18447 40480 | 4217 55040 46594 01600 |
| 13 | 2901 55430 01511 62864 | 31421 15744 95174 63680 |
| 14 | 11481 47438 40573 05264 | 1 67794 20955 66221 18288 |
| 15 | 38885 82966 08283 53840 | 7 18904 97999 13727 70960 |
| 16 | 1 16901 52824 69329 53160 | 26 24310 63337 19621 09120 |

| n | ${}^{34}P_n^{n-12}$ | $-{}^{34}P_n^{n-13}$ |
|-----|---------------------------|---------------------------|
| 12 | 13776 09643 18897 92000 | |
| 13 | 2 07783 41504 62222 65600 | 6 33700 43586 69304 32000 |

| n | ${}^{34}P_n^{n-12}$ | $-{}^{34}P_n^{n-13}$ |
|-----|---------------------------------|---------------------------------|
| 14 | 16 84577 81517 35430 58560 | 103 99520 94303 93769 15200 |
| 15 | 97 38699 87389 14047 36384 | 912 59256 07136 94437 26080 |
| 16 | 449 65043 89346 86705 13424 | 5684 55549 89204 82758 08896 |
| n | ${}^{34}P_n^{n-14}$ | $-{}^{34}P_n^{n-15}$ |
| 14 | 297 83920 48574 57303 04000 | |
| 15 | 5289 60925 75163 58222 33600 | 14296 28183 31579 50545 92000 |
| 16 | 50006 64473 24873 85648 11520 | 2 73487 13545 14595 03440 38400 |
| n | ${}^{34}P_n^{n-16}$ | |
| 16 | 7 00517 80982 47395 76750 08000 | |

TABLEAUX ${}^{35}P_n^r$

| n | $-{}^{35}P_n^{n-1}$ | ${}^{35}P_n^{n-2}$ | $-{}^{35}P_n^{n-3}$ | ${}^{35}P_n^{n-4}$ | $-{}^{35}P_n^{n-5}$ | ${}^{35}P_n^{n-6}$ |
|-----|---------------------|--------------------|---------------------|--------------------|---------------------|--------------------|
| 1 | 35 | | | | | |
| 2 | 71 | 1260 | | | | |
| 3 | 108 | 3887 | 46620 | | | |
| 4 | 146 | 7991 | 1 94326 | 17 71560 | | |
| 5 | 185 | 13685 | 5 05975 | 93 50274 | 690 90840 | |
| 6 | 225 | 21085 | 10 53375 | 295 89274 | 4431 01800 | 27636 33600 |
| 7 | 266 | 30310 | 19 17860 | 727 77649 | 16562 62034 | 2 09308 07400 |
| 8 | 308 | 41482 | 31 90880 | 1533 27769 | 47129 23292 | 9 04938 12828 |
| 9 | 351 | 54726 | 49 74606 | 2905 35609 | 1 13060 17359 | 29 31495 14384 |
| 10 | 395 | 70170 | 73 82550 | 5094 18273 | 2 40895 84155 | 79 06142 78180 |
| 11 | 440 | 87945 | 105 40200 | 8416 33023 | 4 70134 06440 | 187 46455 65155 |
| 12 | 486 | 1 08185 | 145 85670 | 13264 82223 | 8 57285 25498 | 403 72622 61395 |
| 13 | 533 | 1 31027 | 196 70365 | 20120 08713 | 14 80731 89979 | 806 65029 59801 |
| 14 | 581 | 1 56611 | 259 59661 | 29561 86233 | 24 46496 08203 | 1517 40160 78793 |
| 15 | 630 | 1 85080 | 336 33600 | 42282 09622 | 38 95027 33620 | 2716 18468 80740 |
| n | $-{}^{35}P_n^{n-7}$ | | ${}^{35}P_n^{n-8}$ | | $-{}^{35}P_n^{n-9}$ | |
| 7 | 11 33089 | 77600 | | | | |
| 8 | 99 24028 | 88400 | 475 89770 | 59200 | | |
| 9 | 488 36368 | 40004 | 4743 23012 | 60400 | 20463 60135 | 45600 |
| 10 | 1778 22154 | 72900 | 26231 23222 | 20576 | 2 29165 72690 | 03200 |
| 11 | 5335 98579 | 91000 | 1 06251 20185 | 01076 | 14 09571 17689 | 29120 |

| n | $-{}^{35}P_n^{n-7}$ | ${}^{35}P_n^{n-8}$ | $-{}^{35}P_n^{n-9}$ |
|-----|------------------------------|-------------------------------|------------------------|
| 12 | 13959 35539 88130 | 3 51706 54860 87076 | 62 97126 46199 78616 |
| 13 | 32934 48802 73695 | 10 07796 25235 29186 | 228 27334 24660 71188 |
| 14 | 71653 70223 44143 | 25 88651 67766 66546 | 712 01554 35954 72116 |
| 15 | 1 46006 38102 05000 | 60 99683 08715 29553 | 1980 45486 56521 32870 |
| n | ${}^{35}P_n^{n-10}$ | $-{}^{35}P_n^{n-11}$ | |
| 10 | 9 00398 45960 06400 | | |
| 11 | 112 12856 17011 50400 | 405 17930 68202 88000 | |
| 12 | 760 53130 30718 89920 | 5563 09314 50732 06400 | |
| 13 | 3720 18074 02108 84872 | 41308 06438 94520 32640 | |
| 14 | 14677 30117 85823 01896 | 2 19876 73991 95745 06496 | |
| 15 | 49566 06281 47604 35580 | 9 39064 49767 01072 99400 | |
| n | ${}^{35}P_n^{n-12}$ | $-{}^{35}P_n^{n-13}$ | |
| 12 | 18638 24811 37332 48000 | | |
| 13 | 2 80103 62593 21739 48800 | 8 75997 66134 54626 56000 | |
| 14 | 22 62890 71662 58715 15520 | 143 20971 70608 98121 98400 | |
| 15 | 130 36850 97268 50223 33824 | 1252 02616 82075 75164 58880 | |
| n | ${}^{35}P_n^{n-14}$ | $-{}^{35}P_n^{n-15}$ | |
| 14 | 420 47887 74458 22074 88000 | | |
| 15 | 7437 75501 34298 30052 09600 | 20603 46499 48452 81669 12000 | |

TABLEAUX ${}^{36}P_n^r$

| n | $-{}^{36}P_n^{n-1}$ | ${}^{36}P_n^{n-2}$ | $-{}^{36}P_n^{n-3}$ | ${}^{36}P_n^{n-4}$ | $-{}^{36}P_n^{n-5}$ | ${}^{36}P_n^{n-6}$ |
|-----|---------------------|--------------------|---------------------|--------------------|---------------------|--------------------|
| 1 | 36 | | | | | |
| 2 | 73 | 1332 | | | | |
| 3 | 111 | 4106 | 50616 | | | |
| 4 | 150 | 8435 | 2 10750 | 19 74024 | | |
| 5 | 190 | 14435 | 5 48150 | 104 04024 | 789 60960 | |
| 6 | 231 | 22225 | 11 39985 | 328 78174 | 5055 25944 | 32373 99360 |
| 7 | 273 | 31927 | 20 73435 | 807 57544 | 18864 09252 | 2 44694 89008 |
| 8 | 316 | 43666 | 34 46296 | 1699 15249 | 53589 83644 | 10 55850 86844 |
| 9 | 360 | 57570 | 53 67600 | 3215 52273 | 1 28352 54600 | 34 13803 67180 |
| 10 | 405 | 73770 | 79 58250 | 5630 94273 | 2 73051 06885 | 91 89668 24180 |
| 11 | 451 | 92400 | 113 51670 | 9291 73773 | 5 32074 43443 | 217 50017 40890 |
| 12 | 498 | 1 13597 | 156 94470 | 14627 02263 | 9 68786 10774 | 467 57515 82711 |
| 13 | 546 | 1 37501 | 211 47126 | 22160 36823 | 16 70883 19398 | 932 59248 99863 |
| 14 | 595 | 1 64255 | 278 84675 | 32522 45997 | 27 56741 23725 | 1751 32525 50365 |

| n | $-{}^{36}P_n^{n-7}$ | ${}^{36}P_n^{n-8}$ | $-{}^{36}P_n^{n-9}$ |
|-----|-----------------------------|-----------------------------|-----------------------|
| 7 | 13 59707 73120 | | |
| 8 | 118 81588 00464 | 584 67432 44160 | |
| 9 | 583 39026 21600 | 5812 57304 64576 | 25725 67027 43040 |
| 10 | 2119 60191 44700 | 32065 13484 36576 | 2 87291 45736 48960 |
| 11 | 6346 84930 56980 | 1 29566 82290 92776 | 17 62287 66017 31456 |
| 12 | 16569 35748 78810 | 4 27868 74027 70836 | 78 51928 33690 91928 |
| 13 | 39012 96508 48938 | 12 23197 89969 53716 | 283 89627 87020 92056 |
| 14 | 84709 99709 42225 | 31 34833 18885 51678 | 883 26324 95528 24140 |
| n | ${}^{36}P_n^{n-10}$ | $-{}^{36}P_n^{n-11}$ | |
| 10 | 11 57655 16234 36800 | | |
| 11 | 143 73062 20112 88960 | 532 52137 46780 92800 | |
| 12 | 972 00582 22926 67392 | 7287 86060 92086 73920 | |
| 13 | 4740 93142 40090 79936 | 53944 14007 92567 08736 | |
| 14 | 18651 84908 04115 90680 | 2 86249 77985 57016 25600 | |
| n | ${}^{36}P_n^{n-12}$ | $-{}^{36}P_n^{n-13}$ | |
| 12 | 25028 50460 98703 61600 | | |
| 13 | 3 74845 81385 18867 09760 | 12 01368 22127 37773 56800 | |
| 14 | 30 18108 67773 54654 37824 | 195 68813 10001 62261 35040 | |
| n | ${}^{36}P_n^{n-14}$ | | |
| 14 | 588 67042 84241 50904 83200 | | |

TABLEAUX ${}^{37}P_n^r$

| n | $-{}^{37}P_n^{n-1}$ | ${}^{37}P_n^{n-2}$ | $-{}^{37}P_n^{n-3}$ | ${}^{37}P_n^{n-4}$ | $-{}^{37}P_n^{n-5}$ | ${}^{37}P_n^{n-6}$ |
|-----|---------------------|--------------------|---------------------|--------------------|---------------------|--------------------|
| 1 | 37 | | | | | |
| 2 | 75 | 1406 | | | | |
| 3 | 114 | 4331 | 54834 | | | |
| 4 | 154 | 8891 | 2 28074 | 21 93360 | | |
| 5 | 195 | 15205 | 5 92605 | 115 44394 | 899 27760 | |
| 6 | 237 | 23395 | 12 31215 | 364 33804 | 5747 92308 | 37769 65920 |
| 7 | 280 | 33586 | 22 37200 | 893 76049 | 21414 45880 | 2 84930 35164 |
| 8 | 324 | 45906 | 37 14984 | 1878 12849 | 60739 92036 | 12 27166 53884 |
| 9 | 369 | 60486 | 57 80754 | 3549 87129 | 1 45255 70241 | 39 60462 95504 |
| 10 | 415 | 77460 | 85 63110 | 6209 01813 | 3 08549 78175 | 106 42225 26590 |
| 11 | 462 | 96965 | 122 03730 | 10233 67983 | 6 00373 63386 | 251 44065 00815 |
| 12 | 510 | 1 19141 | 168 58050 | 16091 47023 | 10 91590 26570 | 539 61999 43343 |
| 13 | 559 | 1 44131 | 226 95959 | 24351 91473 | 18 80072 30697 | 1074 49922 45273 |

| n | $-{}^{37}P_n^{n-7}$ | ${}^{37}P_n^{n-8}$ | $-{}^{37}P_n^{n-9}$ |
|-----|---------------------|----------------------|-----------------------|
| 7 | 16 24095 34560 | | |
| 8 | 141 61030 81776 | 714 60195 20640 | |
| 9 | 693 83525 06556 | 7087 06582 00560 | 32157 08784 28800 |
| 10 | 2515 64820 99740 | 39003 48735 02136 | 3 58162 11556 54560 |
| 11 | 7517 49408 49470 | 1 57238 95321 89916 | 21 91326 02102 54952 |
| 12 | 19586 64528 88590 | 5 18078 66929 64476 | 97 38795 77553 70920 |
| 13 | 46028 02501 12397 | 14 77824 28845 05386 | 351 24650 57106 30244 |

| n | ${}^{37}P_n^{n-10}$ | $-{}^{37}P_n^{n-11}$ |
|-----|---------------------------|----------------------------|
| 10 | 14 79226 04077 24800 | |
| 11 | 183 12845 47234 89120 | 695 23623 91630 65600 |
| 12 | 1234 96494 48157 26816 | 9485 40206 58905 43360 |
| 13 | 6006 97487 48289 01896 | 69998 68436 18611 57344 |
| n | ${}^{37}P_n^{n-12}$ | $-{}^{37}P_n^{n-13}$ |
| 12 | 33371 33947 98271 48800 | |
| 13 | 4 98156 04070 84637 73440 | 16 35195 63451 15302 91200 |

TABLEAUX ${}^{38}P_n^r$

| n | $-{}^{38}P_n^{n-1}$ | ${}^{38}P_n^{n-2}$ | $-{}^{38}P_n^{n-3}$ | ${}^{38}P_n^{n-4}$ | $-{}^{38}P_n^{n-5}$ | ${}^{38}P_n^{n-6}$ |
|-----|---------------------|--------------------|---------------------|--------------------|---------------------|--------------------|
| 1 | 38 | | | | | |
| 2 | 77 | 1482 | | | | |
| 3 | 117 | 4562 | 59280 | | | |
| 4 | 158 | 9359 | 2 46322 | 24 30480 | | |
| 5 | 200 | 15995 | 6 39400 | 127 76004 | 1020 80160 | |
| 6 | 243 | 24595 | 13 27185 | 402 70204 | 6514 48332 | 43894 46880 |
| 7 | 287 | 35287 | 24 09365 | 986 66344 | 24233 37308 | 3 30531 73488 |
| 8 | 332 | 48202 | 39 97280 | 2070 87769 | 68633 22788 | 14 21033 52348 |
| 9 | 378 | 63474 | 62 14572 | 3909 62649 | 1 63893 60162 | 45 78162 00596 |
| 10 | 425 | 81240 | 91 97850 | 6830 47533 | 3 47646 04665 | 122 81161 28210 |
| 11 | 473 | 1 01640 | 130 97370 | 11245 44333 | 6 75508 86249 | 289 68171 52130 |
| 12 | 522 | 1 24817 | 180 77730 | 17663 15463 | 12 26535 58566 | 620 68105 78331 |

| n | $-{}^{38}P_n^{n-7}$ | ${}^{38}P_n^{n-8}$ | $-{}^{38}P_n^{n-9}$ |
|-----|---------------------|--------------------|---------------------|
| 7 | 19 31356 62720 | | |
| 8 | 168 05284 69680 | 869 11048 22400 | |

| n | $-{}^{38}P_n^{n-7}$ | ${}^{38}P_n^{n-8}$ | $-{}^{38}P_n^{n-9}$ |
|-----|------------------------|-------------------------|-------------------------|
| 9 | 821 72826 77688 | 8599 54144 27680 | 39979 08218 30400 |
| 10 | 2973 46441 05700 | 47220 77002 79016 | 4 44157 52999 31360 |
| 11 | 8868 42182 59780 | 1 89947 06173 52616 | 27 10754 49133 24128 |
| 12 | 23062 82587 14150 | 6 24499 73120 81836 | 120 18160 51636 02312 |
| n | ${}^{38}P_n^{n-10}$ | $-{}^{38}P_n^{n-11}$ | ${}^{38}P_n^{n-12}$ |
| 10 | 18 79016 86260 28800 | 901 92809 40493 82400 | |
| 11 | 231 98578 30227 34080 | 12269 23146 21633 52320 | |
| 12 | 1560 25548 37756 16352 | | 44194 47660 84197 37600 |

TABLEAUX ${}^{39}P_n^r$

| n | $-{}^{39}P_n^{n-1}$ | ${}^{39}P_n^{n-2}$ | $-{}^{39}P_n^{n-3}$ | ${}^{39}P_n^{n-4}$ | $-{}^{39}P_n^{n-5}$ | ${}^{39}P_n^{n-6}$ |
|-----|---------------------|--------------------|---------------------|--------------------|---------------------|--------------------|
| 1 | 39 | | | | | |
| 2 | 79 | 1560 | | | | |
| 3 | 120 | 4799 | 63960 | | | |
| 4 | 162 | 9839 | 2 65518 | 26 86320 | | |
| 5 | 205 | 16805 | 6 88595 | 141 03594 | 1155 11760 | |
| 6 | 249 | 25825 | 14 28015 | 444 01774 | 7360 69896 | 50825 17440 |
| 7 | 294 | 37030 | 25 90140 | 1086 62449 | 27341 49726 | 3 82056 62760 |
| 8 | 340 | 50554 | 42 93520 | 2278 08889 | 77326 22380 | 16 39765 50156 |
| 9 | 387 | 66534 | 66 69558 | 4296 04329 | 1 84396 40163 | 52 74098 02016 |
| 10 | 435 | 85110 | 98 63190 | 7497 43113 | 3 90606 47955 | 141 25125 29840 |
| 11 | 484 | 1 06425 | 140 33580 | 12330 39423 | 7 57980 60492 | 332 64842 79635 |

| n | $-{}^{39}P_n^{n-7}$ | ${}^{39}P_n^{n-8}$ | $-{}^{39}P_n^{n-9}$ |
|-----|---------------------|---------------------|----------------------|
| 7 | 22 87132 84800 | | |
| 8 | 198 61737 71760 | 1052 08111 00800 | |
| 9 | 969 30716 29092 | 10387 09783 73520 | 49447 81217 37600 |
| 10 | 3500 87421 25860 | 56913 84165 69936 | 5 48028 50836 66560 |
| 11 | 10422 18560 88020 | 2 28456 67807 37076 | 33 36806 74955 93424 |

| n | ${}^{39}P_n^{n-10}$ | $-{}^{39}P_n^{n-11}$ |
|-----|-----------------------|------------------------|
| 10 | 23 73494 98434 04800 | |
| 11 | 292 26891 89430 66240 | 1163 01254 23268 35200 |

TABLEAUX ${}^{40}P_n^r$

| n | $-{}^{40}P_n^{n-1}$ | ${}^{40}P_n^{n-2}$ | $-{}^{40}P_n^{n-3}$ | ${}^{40}P_n^{n-4}$ | $-{}^{40}P_n^{n-5}$ | ${}^{40}P_n^{n-6}$ |
|-----|---------------------|--------------------|---------------------|---------------------|---------------------|--------------------|
| 1 | 40 | | | | | |
| 2 | 81 | 1640 | | | | |
| 3 | 123 | 5042 | 68880 | | | |
| 4 | 166 | 10331 | 2 85686 | 29 61840 | | |
| 5 | 210 | 17635 | 7 40250 | 155 32024 | 1303 20960 | |
| 6 | 255 | 27085 | 15 33825 | 488 43274 | 8292 62040 | 58644 43200 |
| 7 | 301 | 38815 | 27 79735 | 1193 99224 | 30760 52644 | 4 40104 97040 |
| 8 | 348 | 52962 | 46 04040 | 2500 46769 | 86878 16172 | 18 85849 71308 |
| 9 | 396 | 69666 | 71 46216 | 4710 40689 | 2 06900 61084 | 60 56001 47564 |
| 10 | 445 | 89070 | 105 59850 | 8212 05273 | 4 37710 54845 | 161 94131 40680 |
| n | $-{}^{40}P_n^{n-7}$ | | ${}^{40}P_n^{n-8}$ | | $-{}^{40}P_n^{n-9}$ | |
| 7 | 26 | 97643 87200 | | | | |
| 8 | 233 | 82577 48080 | 1267 89261 98400 | | | |
| 9 | 1139 | 03363 70864 | 12491 52981 06240 | 60858 84575 23200 | | |
| 10 | 4106 | 47436 01500 | 68304 17802 78576 | 6 72943 80647 28960 | | |
| n | ${}^{40}P_n^{n-10}$ | | | | | |
| 10 | 29 | 82083 44186 36800 | | | | |

TABLEAUX ${}^{41}P_n^r$

| n | $-{}^{41}P_n^{n-1}$ | ${}^{41}P_n^{n-2}$ | $-{}^{41}P_n^{n-3}$ | ${}^{41}P_n^{n-4}$ | $-{}^{41}P_n^{n-5}$ | ${}^{41}P_n^{n-6}$ |
|-----|---------------------|--------------------|---------------------|--------------------|---------------------|--------------------|
| 1 | 41 | | | | | |
| 2 | 83 | 1722 | | | | |
| 3 | 126 | 5291 | 74046 | | | |
| 4 | 170 | 10835 | 3 06850 | 32 58024 | | |
| 5 | 215 | 18485 | 7 94425 | 170 66274 | 1466 11080 | |
| 6 | 261 | 28375 | 16 44735 | 536 09824 | 9316 59684 | 67441 09680 |
| 7 | 308 | 40642 | 29 78360 | 1309 12369 | 34513 21412 | 5 05321 14828 |
| 8 | 356 | 55426 | 49 29176 | 2738 73649 | 97351 15124 | 21 61955 42604 |
| 9 | 405 | 72870 | 76 45050 | 5154 03273 | 2 31549 23925 | 69 32161 83680 |
| n | $-{}^{41}P_n^{n-7}$ | | ${}^{41}P_n^{n-8}$ | | $-{}^{41}P_n^{n-9}$ | |
| 7 | 31 | 69731 54960 | | | | |
| 8 | 274 | 25146 66704 | 1521 47114 38080 | | | |
| 9 | 1333 | 60962 54300 | 14959 79301 06576 | 74552 08604 65920 | | |

TABLEAUX ${}^{42}P_n^r$

| n | $-{}^{42}P_n^{n-1}$ | ${}^{42}P_n^{n-2}$ | $-{}^{42}P_n^{n-3}$ | ${}^{42}P_n^{n-4}$ | $-{}^{42}P_n^{n-5}$ | ${}^{42}P_n^{n-6}$ | |
|-----|---------------------|---------------------|---------------------|--------------------|---------------------|--------------------|--|
| 1 | 42 | | | | | | |
| 2 | 85 | 1806 | | | | | |
| 3 | 129 | 5546 | 79464 | | | | |
| 4 | 174 | 11351 | 3 29034 | 35 75880 | | | |
| 5 | 220 | 19355 | 8 51180 | 187 11444 | 1644 90480 | | |
| 6 | 267 | 29695 | 17 60865 | 587 16904 | 10439 28348 | 77310 52560 | |
| 7 | 315 | 42511 | 31 86225 | 1432 38424 | 38623 39740 | 5 78396 13264 | |
| 8 | 364 | 57946 | 52 69264 | 2993 63449 | 1 08810 22516 | 24 70942 60524 | |
| n | | $-{}^{42}P_n^{n-7}$ | ${}^{42}P_n^{n-8}$ | | | | |
| 7 | | 37 10905 22880 | | | | | |
| 8 | | 320 52315 72816 | | 1818 34356 21120 | | | |

TABLEAUX ${}^{43}P_n^r$

| n | $-{}^{43}P_n^{n-1}$ | ${}^{43}P_n^{n-2}$ | $-{}^{43}P_n^{n-3}$ | ${}^{43}P_n^{n-4}$ | $-{}^{43}P_n^{n-5}$ | ${}^{43}P_n^{n-6}$ |
|-----|---------------------|---------------------|---------------------|--------------------|---------------------|--------------------|
| 1 | 43 | | | | | |
| 2 | 87 | 1892 | | | | |
| 3 | 132 | 5807 | 85140 | | | |
| 4 | 178 | 11879 | 3 52262 | 39 16440 | | |
| 5 | 225 | 20245 | 9 10575 | 204 72754 | 1840 72680 | |
| 6 | 273 | 31045 | 18 82335 | 641 80354 | 11667 64872 | 88354 88640 |
| 7 | 322 | 44422 | 34 03540 | 1564 14769 | 43116 02218 | 6 60069 67368 |
| n | | $-{}^{43}P_n^{n-7}$ | | | | |
| 7 | | 43 29389 43360 | | | | |

TABLEAUX ${}^{44}P_n^r$

| n | $-{}^{44}P_n^{n-1}$ | ${}^{44}P_n^{n-2}$ | $-{}^{44}P_n^{n-3}$ | ${}^{44}P_n^{n-4}$ | $-{}^{44}P_n^{n-5}$ | ${}^{44}P_n^{n-6}$ |
|-----|---------------------|--------------------|---------------------|--------------------|---------------------|--------------------|
| 1 | 44 | | | | | |
| 2 | 89 | 1980 | | | | |
| 3 | 135 | 6074 | 91080 | | | |
| 4 | 182 | 12419 | 3 76558 | 42 80760 | | |
| 5 | 230 | 21155 | 9 72670 | 223 55544 | 2054 76480 | |
| 6 | 279 | 32425 | 20 09265 | 700 16374 | 13008 98136 | 1 00683 47520 |

TABLEAUX ${}^{45}P_n^r$

| n | $-{}^{45}P_n^{n-1}$ | ${}^{45}P_n^{n-2}$ | $-{}^{45}P_n^{n-3}$ | ${}^{45}P_n^{n-4}$ | $-{}^{45}P_n^{n-5}$ |
|-----|---------------------|--------------------|---------------------|--------------------|---------------------|
| 1 | 45 | | | | |
| 2 | 91 | 2070 | | | |
| 3 | 138 | 6347 | 97290 | | |
| 4 | 186 | 12971 | 4 01946 | 46 69920 | |
| 5 | 235 | 22085 | 10 37525 | 243 65274 | 2288 26080 |

TABLEAUX ${}^{46}P_n^r$

| n | $-{}^{46}P_n^{n-1}$ | ${}^{46}P_n^{n-2}$ | $-{}^{46}P_n^{n-3}$ | ${}^{46}P_n^{n-4}$ |
|-----|---------------------|--------------------|---------------------|--------------------|
| 1 | 46 | | | |
| 2 | 93 | 2162 | | |
| 3 | 141 | 6626 | 1 03776 | |
| 4 | 190 | 13535 | 4 28450 | 50 85024 |

TABLEAUX ${}^{47}P_n^r$

| n | $-{}^{47}P_n^{n-1}$ | ${}^{47}P_n^{n-2}$ | $-{}^{47}P_n^{n-3}$ |
|-----|---------------------|--------------------|---------------------|
| 1 | 47 | | |
| 2 | 95 | 2256 | |
| 3 | 144 | 6911 | 1 10544 |

TABLEAUX ${}^{48}P_n^r$

| n | $-{}^{48}P_n^{n-1}$ | ${}^{48}P_n^{n-2}$ |
|-----|---------------------|--------------------|
| 1 | 48 | |
| 2 | 97 | 2352 |

SECONDE PARTIE

TABLEAUX DES NOMBRES \mathbf{s}_n^k

TABLEAUX ${}^v S_3^k$

| \searrow | k | 1 | 2 | |
|------------|-----|---|----|--|
| \nwarrow | | | | |
| 1 | 1 | 1 | -2 | |

TABLEAUX ${}^v S_4^k$

| \searrow | k | 1 | 2 | 3 | |
|------------|-----|---|----|---|--|
| \nwarrow | | | | | |
| 1 | 1 | 1 | -5 | 6 | |
| 2 | 1 | 1 | -4 | 3 | |

TABLEAUX ${}^v S_5^k$

| \searrow | k | 1 | 2 | 3 | 4 | |
|------------|-----|---|----|----|-----|--|
| \nwarrow | | | | | | |
| 1 | 1 | 1 | -9 | 26 | -24 | |
| 2 | 1 | 1 | -8 | 19 | -12 | |
| 3 | 1 | 1 | -7 | 14 | -8 | |

TABLEAUX ${}^v S_6^k$

| \searrow | k | 1 | 2 | 3 | 4 | 5 | |
|------------|-----|---|-----|----|------|-----|--|
| \nwarrow | | | | | | | |
| 1 | 1 | 1 | -14 | 71 | -154 | 120 | |
| 2 | 1 | 1 | -13 | 59 | -107 | 60 | |
| 3 | 1 | 1 | -12 | 49 | -78 | 40 | |
| 4 | 1 | 1 | -11 | 41 | -61 | 30 | |

TABLEAUX ${}^v S_7^k$

| \searrow | k | 1 | 2 | 3 | 4 | 5 | 6 | |
|------------|-----|---|-----|-----|------|------|------|--|
| \nwarrow | | | | | | | | |
| 1 | 1 | 1 | -20 | 155 | -580 | 1044 | -720 | |
| 2 | 1 | 1 | -19 | 137 | -461 | 702 | -360 | |
| 3 | 1 | 1 | -18 | 121 | -372 | 508 | -240 | |
| 4 | 1 | 1 | -17 | 107 | -307 | 396 | -180 | |
| 5 | 1 | 1 | -16 | 95 | -260 | 324 | -144 | |

TABLEAUX ${}^v S_8^k$

| \searrow | k | 1 | 2 | 3 | 4 | 5 | 6 | 7 | |
|------------|-----|-----|-----|-------|------|-------|------|---|--|
| \nwarrow | | | | | | | | | |
| 1 | 1 | -27 | 295 | -1665 | 5104 | -8028 | 5040 | | |
| 2 | 1 | -26 | 270 | -1420 | 3929 | -5274 | 2520 | | |
| 3 | 1 | -25 | 247 | -1219 | 3112 | -3796 | 1680 | | |
| 4 | 1 | -24 | 226 | -1056 | 2545 | -2952 | 1260 | | |
| 5 | 1 | -23 | 207 | -925 | 2144 | -2412 | 1008 | | |
| 6 | 1 | -22 | 190 | -820 | 1849 | -2038 | 840 | | |

TABLEAUX \mathcal{S}_9^k

| $v \backslash k$ | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|------------------|---|-----|-----|-------|-------|--------|-------|--------|
| 1 | 1 | -35 | 511 | -4025 | 18424 | -48860 | 69264 | -40320 |
| 2 | 1 | -34 | 478 | -3580 | 15289 | -36706 | 44712 | -20160 |
| 3 | 1 | -33 | 447 | -3195 | 12864 | -28692 | 32048 | -13440 |
| 4 | 1 | -32 | 418 | -2864 | 10993 | -23312 | 24876 | -10080 |
| 5 | 1 | -31 | 391 | -2581 | 9544 | -19564 | 20304 | -8064 |
| 6 | 1 | -30 | 366 | -2340 | 8409 | -16830 | 17144 | -6720 |
| 7 | 1 | -29 | 343 | -2135 | 7504 | -14756 | 14832 | -5760 |

TABLEAUX \mathcal{S}_{10}^k

| $v \backslash k$ | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|------------------|---|-----|-----|-------|-------|----------|---------|----------|---------|
| 1 | 1 | -44 | 826 | -8624 | 54649 | -2 14676 | 5 09004 | -6 63696 | 3 62880 |
| 2 | 1 | -43 | 784 | -7882 | 47509 | -1 74307 | 3 75066 | -4 22568 | 1 81440 |
| 3 | 1 | -42 | 744 | -7218 | 41619 | -1 44468 | 2 90276 | -3 01872 | 1 20960 |
| 4 | 1 | -41 | 706 | -6626 | 36769 | -1 22249 | 2 34684 | -2 33964 | 90720 |
| 5 | 1 | -40 | 670 | -6100 | 32773 | -1 05460 | 1 96380 | -1 90800 | 72576 |
| 6 | 1 | -39 | 636 | -5634 | 29469 | - 92511 | 1 68614 | -1 61016 | 60480 |
| 7 | 1 | -38 | 604 | -5222 | 26719 | - 82292 | 1 47636 | -1 39248 | 51840 |
| 8 | 1 | -37 | 574 | -4858 | 24409 | - 74053 | 1 31256 | -1 22652 | 45360 |

TABLEAUX \mathcal{S}_{11}^k

| $v \backslash k$ | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|------------------|---|-----|------|--------|---------|----------|----------|
| 1 | 1 | -54 | 1266 | -16884 | 1 40889 | -7 61166 | 26 55764 |
| 2 | 1 | -53 | 1214 | -15722 | 1 26329 | -6 49397 | 21 18136 |
| 3 | 1 | -52 | 1164 | -14658 | 1 13799 | -5 60658 | 17 34956 |
| 4 | 1 | -51 | 1116 | -13686 | 1 03029 | -4 89939 | 14 57174 |
| 5 | 1 | -50 | 1070 | -12800 | 93773 | -4 33190 | 12 50980 |
| 6 | 1 | -49 | 1026 | -11994 | 85809 | -3 87201 | 10 93724 |
| 7 | 1 | -48 | 984 | -11262 | 78939 | -3 49482 | 9 70556 |
| 8 | 1 | -47 | 944 | -10598 | 72989 | -3 18143 | 8 71786 |
| 9 | 1 | -46 | 906 | -9996 | 67809 | -2 91774 | 7 90964 |

| $v \backslash k$ | 8 | 9 | 10 |
|------------------|-----------|----------|-----------|
| 1 | —57 53736 | 69 99840 | —36 28800 |
| 2 | —41 73228 | 44 07120 | —18 14400 |
| 3 | —32 04632 | 31 39680 | —12 09600 |
| 4 | —25 80804 | 24 30360 | — 9 07200 |
| 5 | —21 54600 | 19 80576 | — 7 25760 |
| 6 | —18 47156 | 16 70640 | — 6 04800 |
| 7 | —16 15608 | 14 44320 | — 5 18400 |
| 8 | —14 35212 | 12 71880 | — 4 53600 |
| 9 | —12 90824 | 11 36160 | — 4 03200 |

TABLEAUX ${}^v S_{12}^k$

| $v \backslash k$ | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|------------------|---|-----|------|--------|---------|-----------|-----------|------------|
| 1 | 1 | —65 | 1860 | —30810 | 3 26613 | —23 10945 | 110 28590 | —349 67140 |
| 2 | 1 | —64 | 1797 | —29076 | 2 99271 | —20 39016 | 92 61503 | —274 72724 |
| 3 | 1 | —63 | 1736 | —27462 | 2 75037 | —18 12447 | 79 02194 | —222 89148 |
| 4 | 1 | —62 | 1677 | —25962 | 2 53575 | —16 23258 | 68 46503 | —186 09718 |
| 5 | 1 | —61 | 1620 | —24570 | 2 34573 | —14 64693 | 60 16070 | —159 15380 |
| 6 | 1 | —60 | 1565 | —23280 | 2 17743 | —13 31100 | 53 52935 | —138 78120 |
| 7 | 1 | —59 | 1512 | —22086 | 2 02821 | —12 17811 | 48 14858 | —122 91724 |
| 8 | 1 | —58 | 1461 | —20982 | 1 89567 | —11 21022 | 43 71359 | —110 24858 |
| 9 | 1 | —57 | 1412 | —19962 | 1 77765 | —10 37673 | 40 00478 | — 99 91428 |
| 10 | 1 | —56 | 1365 | —19020 | 1 67223 | — 9 65328 | 36 86255 | — 91 33180 |

| $v \backslash k$ | 9 | 10 | 11 |
|------------------|-----------|------------|-----------|
| 1 | 702 90936 | —806 27040 | 399 16800 |
| 2 | 503 12628 | —502 92720 | 199 58400 |
| 3 | 383 90632 | —357 46080 | 133 05600 |
| 4 | 308 19204 | —276 41160 | 99 79200 |
| 5 | 256 81176 | —225 12096 | 79 83360 |
| 6 | 219 89356 | —189 81840 | 66 52800 |
| 7 | 192 16008 | —164 05920 | 57 02400 |
| 8 | 170 59212 | —144 44280 | 49 89600 |
| 9 | 153 35224 | —129 00960 | 44 35200 |
| 10 | 139 26276 | —116 55216 | 39 91680 |

TABLEAUX $\text{v}S_{13}^k$

| $v \backslash k$ | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|------------------|---|-----|------|--------|---------|-----------|-----------|-------------|
| 1 | 1 | -77 | 2640 | -53130 | 6 96333 | -62 30301 | 387 59930 | -1673 10220 |
| 2 | 1 | -76 | 2565 | -50640 | 6 48183 | -56 30268 | 337 29695 | -1386 10760 |
| 3 | 1 | -75 | 2492 | -48294 | 6 04581 | -51 12891 | 296 51558 | -1171 15476 |
| 4 | 1 | -74 | 2421 | -46086 | 5 65119 | -46 66158 | 263 25599 | -1007 67754 |
| 5 | 1 | -73 | 2352 | -44010 | 5 29413 | -42 79569 | 235 92386 | -881 08220 |
| 6 | 1 | -72 | 2285 | -42060 | 4 97103 | -39 44016 | 213 26135 | -781 13340 |
| 7 | 1 | -71 | 2220 | -40230 | 4 67853 | -36 51663 | 194 28590 | -700 70020 |
| 8 | 1 | -70 | 2157 | -38514 | 4 41351 | -33 95826 | 178 23623 | -634 81166 |
| 9 | 1 | -69 | 2096 | -36906 | 4 17309 | -31 70853 | 164 52554 | -579 97164 |
| 10 | 1 | -68 | 2037 | -35400 | 3 95463 | -29 72004 | 152 70191 | -533 68240 |
| 11 | 1 | -67 | 1980 | -33990 | 3 75573 | -27 95331 | 142 41590 | -494 12660 |

| $v \backslash k$ | 9 | 10 | 11 | 12 |
|------------------|------------|-------------|-------------|-------------|
| 1 | 4898 96616 | -9241 18272 | 10074 41280 | -4790 01600 |
| 2 | 3799 85316 | -6540 44256 | 6234 71040 | -2395 00800 |
| 3 | 3058 60408 | -4964 33664 | 4422 58560 | -1596 67200 |
| 4 | 2541 35820 | -3974 71608 | 3416 73120 | -1197 50400 |
| 5 | 2166 65736 | -3306 86208 | 2781 28512 | -958 00320 |
| 6 | 1885 26796 | -2828 54112 | 2344 34880 | -798 33600 |
| 7 | 1667 16696 | -2469 98016 | 2025 73440 | -684 28800 |
| 8 | 1493 57508 | -2191 54824 | 1783 20960 | -598 75200 |
| 9 | 1352 32360 | -1969 23648 | 1592 46720 | -532 22400 |
| 10 | 1235 24436 | -1787 70528 | 1438 54272 | -479 00160 |
| 11 | 1136 67576 | -1636 71552 | 1311 72480 | -435 45600 |

TABLEAUX $\text{v}S_{14}^k$

| $v \backslash k$ | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|------------------|---|-----|------|--------|----------|------------|------------|-------------|
| 1 | 1 | -90 | 3641 | -87450 | 13 87023 | -152 82630 | 1197 53843 | -6711 89310 |
| 2 | 1 | -89 | 3553 | -83985 | 13 06503 | -140 56647 | 1069 23179 | -5770 96795 |
| 3 | 1 | -88 | 3467 | -80690 | 12 32403 | -129 72444 | 961 19141 | -5025 85730 |
| 4 | 1 | -87 | 3383 | -77559 | 11 64237 | -120 12705 | 869 85653 | -4430 00541 |
| 5 | 1 | -86 | 3301 | -74586 | 11 01543 | -111 61938 | 792 26783 | -3948 09238 |
| 6 | 1 | -85 | 3221 | -71765 | 10 43883 | -104 06355 | 725 98343 | -3553 53095 |
| 7 | 1 | -84 | 3143 | -69090 | 9 90843 | -97 33752 | 669 00209 | -3226 41690 |
| 8 | 1 | -83 | 3067 | -66555 | 9 42033 | -91 33389 | 619 69361 | -2951 88265 |
| 9 | 1 | -82 | 2993 | -64154 | 8 97087 | -85 95870 | 576 73643 | -2718 80366 |
| 10 | 1 | -81 | 2921 | -61881 | 8 55663 | -81 13023 | 539 06243 | -2518 80723 |

| $\backslash \begin{matrix} k \\ v \end{matrix}$ | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|-----|------|--------|---------|------------|-----------|-------------|
| 11 | 1 | -80 | 2851 | -59730 | 8 17443 | - 76 77780 | 505 80893 | -2345 53330 |
| 12 | 1 | -79 | 2783 | -57695 | 7 82133 | - 72 84057 | 476 27789 | -2194 09685 |

| $\backslash \begin{matrix} k \\ v \end{matrix}$ | 9 | 10 | 11 | 12 | 13 |
|---|-------------|--------------|---------------|----------------|-------------|
| 1 | 26649 29476 | -72927 74280 | 1 30209 78816 | -1 35757 38240 | 62270 20800 |
| 2 | 21819 25196 | -55938 53364 | 91260 46368 | - 83446 24320 | 31135 10400 |
| 3 | 18283 61596 | -44726 18968 | 68958 96192 | - 59090 28480 | 20756 73600 |
| 4 | 15641 16622 | -37012 37268 | 55088 04024 | - 45615 00960 | 15567 55200 |
| 5 | 13620 72596 | -31473 40776 | 45770 49216 | - 37114 70976 | 12454 04160 |
| 6 | 12040 00216 | -27337 02460 | 39115 38336 | - 31274 87040 | 10378 36800 |
| 7 | 10776 26956 | -24143 15064 | 34135 47648 | - 27018 83520 | 8895 74400 |
| 8 | 9746 12666 | -21608 02428 | 30273 33672 | - 23780 47680 | 7783 77600 |
| 9 | 8891 95492 | -19549 44328 | 27192 54144 | - 21234 29760 | 6918 91200 |
| 10 | 8173 11556 | -17845 88196 | 24678 71136 | - 19180 05696 | 6227 02080 |
| 11 | 7560 32156 | -16413 50040 | 22589 02656 | - 17487 87840 | 5660 92800 |
| 12 | 7032 02566 | -15192 72964 | 20824 77528 | - 16069 86720 | 5189 18400 |

TABLEAUX ${}^v S_{15}^k$

| $\backslash \begin{matrix} k \\ v \end{matrix}$ | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|------|------|----------|----------|------------|------------|
| 1 | 1 | -104 | 4901 | -1 38424 | 26 11323 | -347 00952 | 3337 10663 |
| 2 | 1 | -103 | 4799 | -1 33727 | 24 82293 | -323 47689 | 3037 16237 |
| 3 | 1 | -102 | 4699 | -1 29228 | 23 62063 | -302 26086 | 2777 33357 |
| 4 | 1 | -101 | 4601 | -1 24921 | 22 50063 | -283 12023 | 2551 63523 |
| 5 | 1 | -100 | 4505 | -1 20800 | 21 45747 | -265 83540 | 2354 93915 |
| 6 | 1 | - 99 | 4411 | -1 16859 | 20 48593 | -250 20717 | 2182 87313 |
| 7 | 1 | - 98 | 4319 | -1 13092 | 19 58103 | -236 05554 | 2031 72737 |
| 8 | 1 | - 97 | 4229 | -1 09493 | 18 73803 | -223 21851 | 1898 36807 |
| 9 | 1 | - 96 | 4141 | -1 06056 | 17 95243 | -211 55088 | 1780 15823 |
| 10 | 1 | - 95 | 4055 | -1 02775 | 17 21997 | -200 92305 | 1674 88565 |
| 11 | 1 | - 94 | 3971 | - 99644 | 16 53663 | -191 21982 | 1580 69813 |
| 12 | 1 | - 93 | 3889 | - 96657 | 15 89863 | -182 33919 | 1496 04587 |
| 13 | 1 | - 92 | 3809 | - 93808 | 15 30243 | -174 19116 | 1419 63107 |

| $\backslash \begin{matrix} k \\ v \end{matrix}$ | 8 | 9 | 10 | 11 |
|---|--------------|---------------|----------------|----------------|
| 1 | -23477 43112 | 1 20615 79816 | -4 46017 86944 | 11 51198 18736 |
| 2 | -20740 21301 | 1 02612 80326 | -3 61408 06108 | 8 74399 93464 |
| 3 | -18482 53704 | 88645 61816 | -3 00696 81312 | 6 95125 61744 |

| $\begin{array}{c} k \\ \backslash \\ v \end{array}$ | 8 | 9 | 10 | 11 |
|---|--------------|-------------|----------------|---------------|
| 4 | —16607 99683 | 77661 24196 | —2 55988 69976 | 5 73261 25776 |
| 5 | —15039 84200 | 68894 01928 | —2 22163 57120 | 4 86398 20080 |
| 6 | —13717 29897 | 61789 43546 | —1 95897 05484 | 4 21833 72776 |
| 7 | —12592 44616 | 55946 10616 | —1 75010 92448 | 3 72139 58544 |
| 8 | —11627 59319 | 51072 48376 | —1 58053 79752 | 3 32785 67664 |
| 9 | —10793 11368 | 46955 20616 | —1 44036 81216 | 3 00884 74736 |
| 10 | —10065 68125 | 43436 41678 | —1 32269 49980 | 2 74521 05880 |
| 11 | — 9426 85832 | 40397 78776 | —1 22258 00224 | 2 52378 03216 |
| 12 | — 8861 98731 | 37749 38156 | —1 13641 08888 | 2 33522 99024 |
| 13 | — 8359 33384 | 35421 88936 | —1 06149 10592 | 2 17277 67984 |

| $\begin{array}{c} k \\ \backslash \\ v \end{array}$ | 12 | 13 | 14 |
|---|-----------------|----------------|----------------|
| 1 | —19 58694 41664 | 19 62873 56160 | —8 71782 91200 |
| 2 | —13 61092 73472 | 11 99382 50880 | —4 35891 45600 |
| 3 | —10 24515 75168 | 8 48020 72320 | —2 90594 30400 |
| 4 | — 8 16847 57296 | 6 54177 68640 | —2 17945 72800 |
| 5 | — 6 77901 60000 | 5 32059 97824 | —1 74356 58240 |
| 6 | — 5 78890 23744 | 4 48226 55360 | —1 45297 15200 |
| 7 | — 5 04915 50592 | 3 87159 43680 | —1 24540 41600 |
| 8 | — 4 47607 19088 | 3 40710 45120 | —1 08972 86400 |
| 9 | — 4 01929 87776 | 3 04199 07840 | — 96864 76800 |
| 10 | — 3 64682 01600 | 2 74747 81824 | — 87178 29120 |
| 11 | — 3 33734 25024 | 2 50491 22560 | — 79252 99200 |
| 12 | — 3 07616 72112 | 2 30167 32480 | — 72648 57600 |
| 13 | — 2 85282 76608 | 2 12892 01920 | — 67060 22400 |

TABLEAUX ${}^v S_{16}^k$

| $\begin{array}{c} k \\ \backslash \\ v \end{array}$ | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|------|------|----------|----------|------------|------------|--------------|
| 1 | 1 | —119 | 6461 | —2 11939 | 46 87683 | —738 70797 | 8542 24943 | —73534 03057 |
| 2 | 1 | —118 | 6344 | —2 05712 | 44 88198 | —695 82084 | 7889 31572 | —66297 64856 |
| 3 | 1 | —117 | 6229 | —1 99713 | 43 00483 | —656 57031 | 7311 24647 | —60142 54059 |
| 4 | 1 | —116 | 6116 | —1 93936 | 41 23878 | —620 62968 | 6798 43868 | —54882 52528 |
| 5 | 1 | —115 | 6005 | —1 88375 | 39 57747 | —587 69745 | 6342 47015 | —50363 92925 |
| 6 | 1 | —114 | 5896 | —1 83024 | 38 01478 | —557 49612 | 5935 98068 | —46460 39592 |
| 7 | 1 | —113 | 5789 | —1 77877 | 36 54483 | —529 77099 | 5572 56047 | —43068 35671 |
| 8 | 1 | —112 | 5684 | —1 72928 | 35 16198 | —504 28896 | 5246 64572 | —40103 11424 |
| 9 | 1 | —111 | 5581 | —1 68171 | 33 86083 | —480 83733 | 4953 42143 | —37495 48713 |
| 10 | 1 | —110 | 5480 | —1 63600 | 32 63622 | —459 22260 | 4688 73140 | —35188 96600 |
| 11 | 1 | —109 | 5381 | —1 59209 | 31 48323 | —439 26927 | 4448 99543 | —33137 33027 |

| $\backslash \begin{matrix} k \\ v \end{matrix}$ | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|------|------|----------|----------|------------|------------|--------------|
| 12 | 1 | -108 | 5284 | -1 54992 | 30 39718 | -420 81864 | 4231 13372 | -31302 67536 |
| 13 | 1 | -107 | 5189 | -1 50943 | 29 37363 | -403 72761 | 4032 49847 | -29653 79989 |
| 14 | 1 | -106 | 5096 | -1 47056 | 28 40838 | -387 86748 | 3850 81268 | -28164 90248 |

| $\backslash \begin{matrix} k \\ v \end{matrix}$ | 9 | 10 | 11 | 12 |
|---|---------------|-----------------|----------------|------------------|
| 1 | 4 72777 26496 | -22 55254 84184 | 78 41466 22896 | -192 26667 22704 |
| 2 | 4 13715 99841 | -19 00600 10998 | 62 95520 85084 | -144 77091 75432 |
| 3 | 3 65883 67376 | -16 30381 08552 | 52 05577 81424 | -114 51400 01328 |
| 4 | 3 26781 19441 | -14 20907 32916 | 44 13091 75416 | -94 15766 43936 |
| 5 | 2 94491 64928 | -12 55573 86040 | 38 18851 76880 | -79 73874 61200 |
| 6 | 2 67548 92001 | -11 22738 58674 | 33 60289 55036 | -69 06396 15384 |
| 7 | 2 44832 79856 | -10 14202 51688 | 29 97303 45264 | -60 87009 28752 |
| 8 | 2 25486 38161 | -9 24141 05392 | 27 03592 63944 | -54 39392 34048 |
| 9 | 2 08851 91136 | -8 48364 90456 | 24 61436 92976 | -49 15201 08816 |
| 10 | 1 94421 63553 | -7 83815 75150 | 22 58563 55580 | -44 82497 89800 |
| 11 | 1 81800 66256 | -7 28224 81864 | 20 86248 06576 | -41 19404 73264 |
| 12 | 1 70679 19121 | -6 79881 81228 | 19 38139 32344 | -38 10461 57472 |
| 13 | 1 60811 89696 | -6 37477 44632 | 18 09514 26864 | -35 44447 96368 |
| 14 | 1 52002 66081 | -5 99994 85546 | 16 96793 09436 | -33 13030 13496 |

| $\backslash \begin{matrix} k \\ v \end{matrix}$ | 13 | 14 | 15 |
|---|-----------------|------------------|-----------------|
| 1 | 313 43289 81120 | -303 14886 33600 | 130 76743 68000 |
| 2 | 216 15773 52960 | -184 26629 08800 | 65 38371 84000 |
| 3 | 162 15756 99840 | -130 10905 15200 | 43 58914 56000 |
| 4 | 129 06891 28080 | -100 30611 02400 | 32 69185 92000 |
| 5 | 107 00583 97824 | -81 55256 25600 | 26 15348 73600 |
| 6 | 91 31580 11520 | -68 68695 45600 | 21 79457 28000 |
| 7 | 79 60892 02560 | -59 31931 96800 | 18 68106 24000 |
| 8 | 70 54818 31440 | -52 19629 63200 | 16 34592 96000 |
| 9 | 63 33147 24480 | -46 59850 94400 | 14 52971 52000 |
| 10 | 57 44978 05824 | -42 08395 56480 | 13 07674 36800 |
| 11 | 52 56504 97920 | -38 36621 37600 | 11 88794 88000 |
| 12 | 48 44418 14160 | -35 25158 44800 | 10 89728 64000 |
| 13 | 44 92133 51040 | -32 60440 51200 | 10 05903 36000 |
| 14 | 41 87535 14880 | -30 32684 06400 | 9 34053 12000 |

TABLEAUX νS_{17}^k

| $\nu \backslash k$ | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|--------------------|---|------|------|----------|----------|-------------|-------------|
| 1 | 1 | -135 | 8365 | -3 15315 | 80 78707 | -1488 73725 | 20361 57695 |
| 2 | 1 | -134 | 8232 | -3 07216 | 77 79590 | -1413 93252 | 19022 44916 |
| 3 | 1 | -133 | 8101 | -2 99377 | 74 95891 | -1344 64759 | 17816 37143 |
| 4 | 1 | -132 | 7972 | -2 91792 | 72 26854 | -1280 45016 | 16728 51356 |
| 5 | 1 | -131 | 7845 | -2 84455 | 69 71747 | -1220 93697 | 15745 62935 |
| 6 | 1 | -130 | 7720 | -2 77360 | 67 29862 | -1165 73260 | 14855 91860 |
| 7 | 1 | -129 | 7597 | -2 70501 | 65 00515 | -1114 48827 | 14048 89631 |
| 8 | 1 | -128 | 7476 | -2 63872 | 62 83046 | -1066 88064 | 13315 26908 |
| 9 | 1 | -127 | 7357 | -2 57467 | 60 76819 | -1022 61061 | 12646 81871 |
| 10 | 1 | -126 | 7240 | -2 51280 | 58 81222 | -981 40212 | 12036 29300 |
| 11 | 1 | -125 | 7125 | -2 45305 | 56 95667 | -943 00095 | 11477 30375 |
| 12 | 1 | -124 | 7012 | -2 39536 | 55 19590 | -907 17352 | 10964 23196 |
| 13 | 1 | -123 | 6901 | -2 33967 | 53 52451 | -873 70569 | 10492 14023 |
| 14 | 1 | -122 | 6792 | -2 28592 | 51 93734 | -842 40156 | 10056 69236 |
| 15 | 1 | -121 | 6685 | -2 23405 | 50 42947 | -813 08227 | 9654 08015 |

| $\nu \backslash k$ | 8 | 9 | 10 | 11 |
|--------------------|----------------|----------------|-----------------|-----------------|
| 1 | -2 10210 02145 | 16 49321 75408 | -98 19691 08120 | 439 25543 69840 |
| 2 | -1 92526 70008 | 14 74478 37537 | -85 20056 08454 | 367 05122 61052 |
| 3 | -1 77122 48411 | 13 28164 32320 | -74 84519 86568 | 312 91675 18256 |
| 4 | -1 63657 54416 | 12 04901 59889 | -66 49406 43972 | 271 47609 02072 |
| 5 | -1 51843 45165 | 11 00314 51728 | -59 67440 24888 | 239 08033 53520 |
| 6 | -1 41436 08680 | 10 10915 25473 | -54 03521 30690 | 213 24106 93820 |
| 7 | -1 32229 32423 | 9 33926 50592 | -49 31527 29384 | 192 24543 72272 |
| 8 | -1 24049 44576 | 8 67136 20945 | -45 31923 15968 | 174 89849 50216 |
| 9 | -1 16750 23001 | 8 08779 70544 | -41 89995 48632 | 160 35275 40272 |
| 10 | -1 10208 66840 | 7 57445 09153 | -38 94561 91998 | 147 99615 57980 |
| 11 | -1 04321 25715 | 7 11997 94688 | -36 37035 41960 | 137 37845 16400 |
| 12 | - 99000 81488 | 6 71521 99697 | -34 10748 87164 | 128 16248 31992 |
| 13 | - 94173 77541 | 6 35272 69520 | -32 10467 79768 | 120 09153 40976 |
| 14 | - 89777 90536 | 6 02641 10049 | -30 32037 42842 | 112 96710 78172 |
| 15 | - 85760 39615 | 5 73125 83328 | -28 72125 33608 | 106 63354 73840 |

| $\nu \backslash k$ | 12 | 13 | 14 |
|--------------------|-------------------|------------------|-------------------|
| 1 | -1446 90126 89040 | 3389 69965 44384 | -5318 07523 31520 |
| 2 | -1152 05425 36776 | 2532 49241 59872 | -3642 79005 56160 |
| 3 | - 947 40645 04112 | 1994 38157 21088 | -2724 63017 12640 |
| 4 | - 800 25234 50592 | 1635 59154 31056 | -2165 40871 51680 |
| 5 | - 690 75502 91280 | 1382 82577 77024 | -1793 64599 90784 |
| 6 | - 606 71028 95960 | 1196 33918 57664 | -1529 73977 29920 |

| $\backslash \begin{matrix} k \\ v \end{matrix}$ | 12 | 13 | 14 |
|---|-------------------|------------------|--------------------|
| 7 | — 540 43864 52976 | 1053 53040 62592 | — 1333 06204 37760 |
| 8 | — 486 96874 57152 | 940 85095 76208 | — 1180 96722 66240 |
| 9 | — 442 98191 96432 | 849 76364 65536 | — 1059 90206 86080 |
| 10 | — 406 19514 79080 | 774 64944 42624 | — 961 28044 49664 |
| 11 | — 374 99373 78480 | 711 66980 70144 | — 879 40701 04320 |
| 12 | — 348 20690 74976 | 658 11803 33712 | — 810 35848 71360 |
| 13 | — 324 96676 26192 | 612 03300 92928 | — 751 34576 67840 |
| 14 | — 304 61719 64472 | 571 96017 30816 | — 700 33246 44480 |
| 15 | — 286 65349 51280 | 536 79849 64224 | — 655 79744 12544 |

| $\backslash \begin{matrix} k \\ v \end{matrix}$ | 15 | 16 |
|---|------------------|--------------------|
| 1 | 4981 14925 05600 | — 2092 27898 88000 |
| 2 | 3013 64437 24800 | — 1046 13949 44000 |
| 3 | 2125 33396 99200 | — 697 42632 96000 |
| 4 | 1637 58962 30400 | — 523 06974 72000 |
| 5 | 1330 99448 83200 | — 418 45579 77600 |
| 6 | 1120 78584 57600 | — 348 71316 48000 |
| 7 | 967 79017 72800 | — 298 89699 84000 |
| 8 | 851 48667 07200 | — 261 53487 36000 |
| 9 | 760 10586 62400 | — 232 47544 32000 |
| 10 | 686 42003 40480 | — 209 22789 88800 |
| 11 | 625 74736 89600 | — 190 20718 08000 |
| 12 | 574 92263 80800 | — 174 35658 24000 |
| 13 | 531 72951 55200 | — 160 94453 76000 |
| 14 | 494 56998 14400 | — 149 44849 92000 |
| 15 | 462 26286 48960 | — 139 48526 59200 |

TABLEAUX S_{18}^k

| $\backslash \begin{matrix} k \\ v \end{matrix}$ | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|------|-------|----------|-----------|-------------|-------------|
| 1 | 1 | —152 | 10660 | —4 57520 | 134 39062 | —2862 11744 | 45670 11020 |
| 2 | 1 | —151 | 10510 | —4 47160 | 130 02262 | —2736 46282 | 43059 30200 |
| 3 | 1 | —150 | 10362 | —4 37094 | 125 85300 | —2618 94906 | 40675 38046 |
| 4 | 1 | —149 | 10216 | —4 27316 | 121 87318 | —2509 01534 | 38496 16628 |
| 5 | 1 | —148 | 10072 | —4 17820 | 118 07482 | —2406 13396 | 36501 55784 |
| 6 | 1 | —147 | 9930 | —4 08600 | 114 44982 | —2309 80914 | 34673 37280 |
| 7 | 1 | —146 | 9790 | —3 99650 | 110 99032 | —2219 57582 | 32995 19690 |
| 8 | 1 | —145 | 9652 | —3 90964 | 107 68870 | —2134 99846 | 31452 23996 |
| 9 | 1 | —144 | 9516 | —3 82536 | 104 53758 | —2055 66984 | 30031 19908 |
| 10 | 1 | —143 | 9382 | —3 74360 | 101 52982 | —1981 20986 | 28720 12904 |

| $\nu \backslash k$ | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|--------------------|---|------|------|----------|----------|-------------|-------------|
| 11 | 1 | -142 | 9250 | -3 66430 | 98 65852 | -1911 26434 | 27508 31990 |
| 12 | 1 | -141 | 9120 | -3 58740 | 95 91702 | -1845 50382 | 26386 18180 |
| 13 | 1 | -140 | 8992 | -3 51284 | 93 29890 | -1783 62236 | 25345 13696 |
| 14 | 1 | -139 | 8866 | -3 44056 | 90 79798 | -1725 33634 | 24377 51888 |
| 15 | 1 | -138 | 8742 | -3 37050 | 88 40832 | -1670 38326 | 23476 47874 |
| 16 | 1 | -137 | 8620 | -3 30260 | 86 12422 | -1618 52054 | 22635 89900 |

| $\nu \backslash k$ | 8 | 9 | 10 | 11 |
|--------------------|----------------|----------------|------------------|------------------|
| 1 | -5 56356 82960 | 52 22892 11873 | -378 58160 90056 | 2108 60292 07880 |
| 2 | -5 15908 33580 | 47 47432 27673 | -335 86188 46583 | 1815 46076 04770 |
| 3 | -4 80000 79842 | 43 39246 55307 | -300 63313 36008 | 1585 28512 89912 |
| 4 | -4 48042 27468 | 39 87079 84961 | -271 32733 62085 | 1401 87518 49596 |
| 5 | -4 19519 15060 | 36 81653 19533 | -246 72787 04264 | 1253 54517 76616 |
| 6 | -3 93986 70300 | 34 15328 73033 | -225 89080 63731 | 1131 83969 15550 |
| 7 | -3 71060 56150 | 31 81825 01783 | -208 08277 89448 | 1030 60507 71800 |
| 8 | -3 50409 02012 | 29 75976 78737 | -192 73238 72033 | 945 32543 21672 |
| 9 | -3 31746 14808 | 27 93533 61561 | -179 39250 47880 | 872 65198 67016 |
| 10 | -3 14825 64940 | 26 30992 45433 | -167 71128 47599 | 810 07168 21946 |
| 11 | -2 99435 42090 | 24 85459 31843 | -157 41000 51656 | 755 67447 29720 |
| 12 | -2 85392 75820 | 23 54535 84993 | -148 26622 82013 | 707 98979 13780 |
| 13 | -2 72540 15932 | 22 36226 87717 | -140 10103 61608 | 665 87105 97032 |
| 14 | -2 60741 67548 | 21 28865 49161 | -132 76936 13675 | 628 41347 06486 |
| 15 | -2 49879 75870 | 20 31052 56783 | -126 15264 50184 | 594 89485 45176 |
| 16 | -2 39852 55580 | 19 41608 05553 | -120 15324 13081 | 564 73266 88640 |

| $\nu \backslash k$ | 12 | 13 | 14 |
|--------------------|-------------------|-------------------|--------------------|
| 1 | -8914 24369 76320 | 27987 02122 58064 | -62942 96935 86048 |
| 2 | -7391 92509 74660 | 22117 41472 85064 | -46695 16112 73984 |
| 3 | -6266 99123 14464 | 18100 29122 90992 | -36629 11689 71136 |
| 4 | -5415 34587 85816 | 15239 88140 91120 | -29970 46494 79632 |
| 5 | -4755 12073 01120 | 13125 66127 28784 | -25301 68422 00192 |
| 6 | -4231 80846 90900 | 11510 41410 88984 | -21867 50593 10208 |
| 7 | -3808 61107 81600 | 10240 98737 63184 | -19243 07895 01824 |
| 8 | -3460 24316 10824 | 9219 31963 47792 | -17175 43350 61776 |
| 9 | -3168 97873 81056 | 8380 45628 04880 | -15505 88406 00192 |
| 10 | -2922 12979 64740 | 7679 96695 86984 | -14130 32099 74272 |
| 11 | -2710 42741 57280 | 7086 56335 04304 | -12977 79372 96768 |
| 12 | -2526 96912 18840 | 6577 63546 08304 | -11998 36505 44464 |
| 13 | -2366 52284 22784 | 6136 46797 38192 | -11155 90692 47616 |
| 14 | -2225 05802 93396 | 5750 45251 26840 | -10423 65540 68352 |
| 15 | -2099 42380 06560 | 5409 90791 35984 | -9781 37188 04352 |
| 16 | -1987 12391 65960 | 5107 28225 79024 | -9213 47445 79728 |

| $v \backslash k$ | 15 | 16 | 17 |
|------------------|-------------------|--------------------|-------------------|
| 1 | 95388 42821 41440 | —86771 81624 83200 | 35568 74280 96000 |
| 2 | 64941 07531 79520 | —52278 09382 65600 | 17784 37140 48000 |
| 3 | 48444 04688 14080 | —36828 10381 82400 | 11856 24760 32000 |
| 4 | 38449 53778 08960 | —28362 09333 88800 | 8892 18570 24000 |
| 5 | 31822 97647 26528 | —23045 36209 92000 | 7113 74856 19200 |
| 6 | 27126 36198 66240 | —19402 07254 27200 | 5928 12380 16000 |
| 7 | 23629 84492 14720 | —16751 33001 21600 | 5081 24897 28000 |
| 8 | 20927 92952 33280 | —14736 80827 58400 | 4446 09285 12000 |
| 9 | 18778 44103 25760 | —13154 27516 92800 | 3952 08253 44000 |
| 10 | 17028 18759 84768 | —11878 36847 76960 | 3556 87428 09600 |
| 11 | 15575 66654 63040 | —10827 91245 31200 | 3233 52207 36000 |
| 12 | 14351 01691 93920 | —9948 04142 97600 | 2964 06190 08000 |
| 13 | 13304 60755 08480 | —9200 34630 14400 | 2736 05713 92000 |
| 14 | 12400 22187 70560 | —8557 13818 36800 | 2540 62448 64000 |
| 15 | 11610 81936 62208 | —7997 95396 91520 | 2371 24952 06400 |
| 16 | 10915 80624 51840 | —7507 34453 95200 | 2223 04642 56000 |

TABLEAUX ${}^v S_{19}^k$

| $v \backslash k$ | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|------------------|-----------------|-----------------|-------------------|------------------|-----------|-------------|-------------|
| 1 | 1 | —170 | 13396 | —6 49400 | 216 74422 | —5281 14860 | 97188 22412 |
| 2 | 1 | —169 | 13228 | —6 36340 | 210 51142 | —5076 86998 | 92315 63276 |
| 3 | 1 | —168 | 13062 | —6 23610 | 204 52992 | —4884 30306 | 87816 46354 |
| 4 | 1 | —167 | 12898 | —6 11204 | 198 79006 | —4702 73258 | 83658 44240 |
| 5 | 1 | —166 | 12736 | —5 99116 | 193 28242 | —4531 48072 | 79811 96912 |
| 6 | 1 | —165 | 12576 | —5 87340 | 187 99782 | —4369 90590 | 76249 93732 |
| 7 | 1 | —164 | 12418 | —5 75870 | 182 92732 | —4217 40158 | 72947 56166 |
| 8 | 1 | —163 | 12262 | —5 64700 | 178 06222 | —4073 39506 | 69882 21224 |
| 9 | 1 | —162 | 12108 | —5 53824 | 173 39406 | —3937 34628 | 67033 25620 |
| 10 | 1 | —161 | 11956 | —5 43236 | 168 91462 | —3808 74662 | 64381 90652 |
| 11 | 1 | —160 | 11806 | —5 32930 | 164 61592 | —3687 11770 | 61911 07802 |
| 12 | 1 | —159 | 11658 | —5 22900 | 160 49022 | —3572 01018 | 59605 25056 |
| 13 | 1 | —158 | 11512 | —5 13140 | 156 53002 | —3463 00256 | 57450 33944 |
| 14 | 1 | —157 | 11368 | —5 03644 | 152 72806 | —3359 69998 | 55433 57300 |
| 15 | 1 | —156 | 11226 | —4 94406 | 149 07732 | —3261 73302 | 53543 37742 |
| 16 | 1 | —155 | 11086 | —4 85420 | 145 57102 | —3168 75650 | 51769 26872 |
| 17 | 1 | —154 | 10948 | —4 76680 | 142 20262 | —3080 44828 | 50101 75196 |
| $v \backslash k$ | 8 | 9 | 10 | 11 | | | |
| 1 | —13 78418 81320 | 152 37315 05153 | —1318 70219 03770 | 8923 07188 28888 | | | |

| $\backslash \begin{array}{c} k \\ v \end{array}$ | 8 | 9 | 10 | 11 |
|--|-----------------|-----------------|-------------------|------------------|
| 2 | —12 90975 77180 | 140 33782 32113 | —1190 39969 44697 | 7860 97468 43264 |
| 3 | —12 12157 64670 | 129 79260 92463 | —1081 69751 31534 | 6996 68153 38056 |
| 4 | —11 40973 26772 | 120 51840 79385 | —989 00170 91383 | 6285 76723 67126 |
| 5 | —10 76547 19172 | 112 32997 90613 | —909 42544 55858 | 5694 64684 53368 |
| 6 | —10 18107 41340 | 105 07089 38433 | —840 64997 78325 | 5197 87420 62708 |
| 7 | —9 64974 10570 | 98 60915 12483 | —780 81128 21542 | 4776 09509 81864 |
| 8 | —9 16549 33940 | 92 83339 14953 | —728 40820 89299 | 4414 50840 18266 |
| 9 | —8 72307 73152 | 87 64964 28105 | —682 22855 55978 | 4101 71707 28856 |
| 10 | —8 31787 97212 | 82 97854 14353 | —641 28992 65393 | 3828 87480 78728 |
| 11 | —7 94585 17910 | 78 75296 89463 | —604 79268 24830 | 3589 05456 59528 |
| 12 | —7 60344 03060 | 74 91605 49753 | —572 08268 11887 | 3376 78189 90014 |
| 13 | —7 28752 62460 | 71 41949 74493 | —542 62187 40514 | 3187 68971 05976 |
| 14 | —6 99537 01532 | 68 22215 65025 | —515 96514 98573 | 3018 26197 52636 |
| 15 | —6 72456 37602 | 65 28888 22443 | —491 74210 72278 | 2865 64246 48488 |
| 16 | —6 47298 73780 | 62 58954 05993 | —469 64269 13035 | 2727 49101 24098 |
| 17 | —6 23877 25400 | 60 09820 54673 | —449 40584 79482 | 2601 87465 81464 |

| $\backslash \begin{array}{c} k \\ v \end{array}$ | 12 | 13 | 14 |
|--|--------------------|---------------------|----------------------|
| 1 | —46869 09627 18160 | 1 88443 40778 31824 | —5 66709 35142 31200 |
| 2 | —40070 21878 60520 | 1 55172 06648 28944 | —4 44808 62624 05136 |
| 3 | —34802 12355 32880 | 1 30906 13339 51344 | —3 62434 35902 08992 |
| 4 | —30649 09920 78544 | 1 12716 10722 35808 | —3 04288 33031 19792 |
| 5 | —27318 93392 80208 | 98717 83441 48944 | —2 61563 58713 18304 |
| 6 | —24604 92291 70800 | 87682 96655 25184 | —2 29054 95989 11920 |
| 7 | —22359 50246 74000 | 78795 98678 31984 | —2 03580 85172 39136 |
| 8 | —20476 10094 00920 | 71503 69653 42624 | —1 83123 18693 22032 |
| 9 | —18876 71449 87344 | 65422 07356 63888 | —1 66354 09710 88032 |
| 10 | —17503 42007 59768 | 60278 30329 52304 | —1 52369 72625 39984 |
| 11 | —16312 56792 92240 | 55874 25683 35344 | —1 40535 93403 74240 |
| 12 | —15270 78536 66880 | 52063 07965 47424 | —1 30395 80334 93936 |
| 13 | —14352 20191 69360 | 48733 87913 48304 | —1 21612 33045 35072 |
| 14 | —13536 50050 10144 | 45801 49704 07968 | —1 13931 80063 51472 |
| 15 | —12807 53118 19728 | 43199 53632 54064 | —1 07159 71432 52064 |
| 16 | —12152 31195 61480 | 40875 51275 66304 | —1 01144 55510 02160 |
| 17 | —11560 29896 62160 | 38787 42162 93264 | — 95766 59150 77536 |

| $\backslash \begin{array}{c} k \\ v \end{array}$ | 15 | 16 |
|--|----------------------|-----------------------|
| 1 | 12 28361 87666 90304 | —18 03763 52410 29120 |
| 2 | 9 05453 97561 11232 | —12 21217 44954 96960 |
| 3 | 7 07768 15102 94528 | — 9 08820 94768 35840 |
| 4 | 5 77917 90684 42336 | — 7 20453 77339 50080 |
| 5 | 4 87253 29243 29984 | — 5 95858 93860 69504 |

| $\backslash \begin{matrix} k \\ v \end{matrix}$ | 15 | 16 |
|---|---------------------|-----------------------|
| 6 | 4 20741 46874 49984 | — 5 07676 58830 19520 |
| 7 | 3 70005 26602 47552 | — 4 42088 53859 86560 |
| 8 | 3 30085 73263 45248 | — 3 91439 53969 57440 |
| 9 | 2 97884 35411 29216 | — 3 51166 21375 56480 |
| 10 | 2 71373 96555 21664 | — 3 18385 74525 02784 |
| 11 | 2 49175 95368 04864 | — 2 91189 91028 65920 |
| 12 | 2 30321 58789 94272 | — 2 68266 34597 88160 |
| 13 | 2 14110 93219 65568 | — 2 48683 28221 67040 |
| 14 | 2 00026 01920 00896 | — 2 31761 13197 06880 |
| 15 | 1 87675 51321 40544 | — 2 16992 70256 11264 |
| 16 | 1 76758 34648 86944 | — 2 03991 85695 28320 |
| 17 | 1 67039 17246 03392 | — 1 92459 46894 61760 |

| $\backslash \begin{matrix} k \\ v \end{matrix}$ | 17 | 18 |
|---|----------------------|----------------------|
| 1 | 15 97461 43527 93600 | —6 40237 37057 28000 |
| 2 | 9 58790 06028 28800 | —3 20118 68528 64000 |
| 3 | 6 74762 11633 15200 | —2 13412 45685 76000 |
| 4 | 5 19409 86580 22400 | —1 60059 34264 32000 |
| 5 | 4 21930 26634 75200 | —1 28047 47411 45600 |
| 6 | 3 55165 42957 05600 | —1 06706 22842 88000 |
| 7 | 3 06605 18919 16800 | — 91462 48151 04000 |
| 8 | 2 69708 64181 63200 | — 80029 67132 16000 |
| 9 | 2 40729 03558 14400 | — 71137 48561 92000 |
| 10 | 2 17367 50687 94880 | — 64023 73705 72800 |
| 11 | 1 98135 94622 97600 | — 58203 39732 48000 |
| 12 | 1 82028 80763 64800 | — 53353 11421 44000 |
| 13 | 1 68342 29056 51200 | — 49249 02850 56000 |
| 14 | 1 56569 11179 26400 | — 45731 24075 52000 |
| 15 | 1 46334 42096 53760 | — 42682 49137 15200 |
| 16 | 1 37355 24813 69600 | — 40014 83566 08000 |
| 17 | 1 29413 98729 72800 | — 37661 02179 84000 |

TABLEAUX ${}^v S_{20}^k$

| $\backslash \begin{matrix} k \\ v \end{matrix}$ | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|------|-------|----------|-----------|-------------|---------------|
| 1 | 1 | —189 | 16626 | —9 03924 | 340 13022 | —9399 28878 | 1 97530 04752 |
| 2 | 1 | —188 | 16439 | —8 87672 | 331 41602 | —9076 58696 | 1 88776 16238 |
| 3 | 1 | —187 | 16254 | —8 71788 | 323 01582 | —8770 37154 | 1 80618 22168 |
| 4 | 1 | —186 | 16071 | —8 56266 | 314 91882 | —8479 74372 | 1 73010 36142 |
| 5 | 1 | —185 | 15890 | —8 41100 | 307 11446 | —8203 84670 | 1 65910 10280 |

| $\backslash \begin{matrix} k \\ v \end{matrix}$ | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|------|-------|----------|-----------|-------------|---------------|
| 6 | 1 | —184 | 15711 | —8 26284 | 299 59242 | —7941 86448 | 1 59278 14942 |
| 7 | 1 | —183 | 15534 | —8 11812 | 292 34262 | —7693 02066 | 1 53078 19168 |
| 8 | 1 | —182 | 15359 | —7 97678 | 285 35522 | —7456 57724 | 1 47276 71838 |
| 9 | 1 | —181 | 15186 | —7 83876 | 278 62062 | —7231 83342 | 1 41842 83552 |
| 10 | 1 | —180 | 15015 | —7 70400 | 272 12946 | —7018 12440 | 1 36748 09230 |
| 11 | 1 | —179 | 14846 | —7 57244 | 265 87262 | —6814 82018 | 1 31966 31432 |
| 12 | 1 | —178 | 14679 | —7 44402 | 259 84122 | —6621 32436 | 1 27473 44398 |
| 13 | 1 | —177 | 14514 | —7 31868 | 254 02662 | —6437 07294 | 1 23247 38808 |
| 14 | 1 | —176 | 14351 | —7 19636 | 248 42042 | —6261 53312 | 1 19267 87262 |
| 15 | 1 | —175 | 14190 | —7 07700 | 243 01446 | —6094 20210 | 1 15516 30480 |
| 16 | 1 | —174 | 14031 | —6 96054 | 237 80082 | —5934 60588 | 1 11975 64222 |
| 17 | 1 | —173 | 13874 | —6 84692 | 232 77182 | —5782 29806 | 1 08630 26928 |
| 18 | 1 | —172 | 13719 | —6 73608 | 227 92002 | —5636 85864 | 1 05465 88078 |

| $\backslash \begin{matrix} k \\ v \end{matrix}$ | 8 | 9 | 10 | 11 |
|---|-----------------|-----------------|-------------------|-------------------|
| 1 | —32 24995 07148 | 414 27272 50233 | —4213 79205 01677 | 33978 41350 00518 |
| 2 | —30 44972 79424 | 385 62321 98533 | —3856 81833 54844 | 30478 56887 92507 |
| 3 | —28 80670 45396 | 360 10256 21193 | —3547 75708 88331 | 27548 93428 37202 |
| 4 | —27 30483 67332 | 337 30332 88053 | —3278 85145 99698 | 25076 79971 03403 |
| 5 | —25 92974 60500 | 316 87394 54881 | —3043 69504 77505 | 22973 73031 14670 |
| 6 | —24 66856 22248 | 298 51130 23893 | —2836 99696 08552 | 21170 22378 50883 |
| 7 | —23 50977 77724 | 281 95423 13313 | —2654 38515 58719 | 19611 50945 91162 |
| 8 | —22 44311 37196 | 266 97776 59813 | —2492 24264 73406 | 18254 26437 14947 |
| 9 | —21 45939 59932 | 253 38811 17993 | —2347 57176 89973 | 17064 05962 92438 |
| 10 | —20 55044 19600 | 241 01825 61381 | —2217 88221 38100 | 16013 38341 21195 |
| 11 | —19 70895 66148 | 229 72415 29753 | —2101 09909 24627 | 15080 11553 31298 |
| 12 | —18 92843 79124 | 219 38142 07893 | —1995 48772 57194 | 14246 35284 15867 |
| 13 | —18 20309 07396 | 209 88249 61233 | —1899 59232 55881 | 13497 50531 75742 |
| 14 | —17 52774 90232 | 201 13418 94133 | —1812 18612 34048 | 12821 59982 25523 |
| 15 | —16 89780 54700 | 193 05559 36881 | —1732 23086 98695 | 12208 74250 21770 |
| 16 | —16 30914 84348 | 185 57630 07813 | —1658 84396 26902 | 11650 70214 71763 |
| 17 | —15 75810 54124 | 178 63488 37273 | —1591 27175 18269 | 11140 58576 91622 |
| 18 | —15 24139 26496 | 172 17760 80453 | —1528 86783 03756 | 10672 58460 34587 |

| $\backslash \begin{matrix} k \\ v \end{matrix}$ | 12 | 13 | 14 |
|---|----------------------|----------------------|-----------------------|
| 1 | —2 16407 46204 67032 | 10 78956 23694 76864 | —41 47134 09930 35856 |
| 2 | —1 89428 73778 82536 | 9 16506 22341 78824 | —33 93077 88941 55072 |
| 3 | —1 67739 07269 55944 | 7 92146 48090 76064 | —28 49650 89352 84528 |
| 4 | —1 50078 67670 53938 | 6 95048 99217 28144 | —24 45894 36756 00144 |
| 5 | —1 35517 22398 94200 | 6 17777 57904 72896 | —21 37202 44101 48240 |
| 6 | —1 23364 53283 62252 | 5 55176 50197 70384 | —18 95031 32438 90416 |
| 7 | —1 13105 30933 29416 | 5 03626 53366 37984 | —17 00704 60060 46832 |

| \backslash | k | 12 | 13 | 14 |
|--------------|-----|-------------------|---------------------|-----------------------|
| 8 | —1 | 04351 76057 47974 | 4 60549 61439 60104 | —15 41693 42108 31888 |
| 9 | — | 96809 33888 35608 | 4 24079 64904 23424 | —14 09373 49487 01904 |
| 10 | — | 90252 04142 55600 | 3 92843 28473 87896 | —12 97657 48886 33760 |
| 11 | — | 84504 60468 23272 | 3 65813 04748 87904 | —12 02146 81387 45776 |
| 12 | — | 79429 64144 77146 | 3 42208 00162 18144 | —11 19594 31678 94992 |
| 13 | — | 74918 30641 82904 | 3 21425 71555 66144 | —10 47556 03401 52848 |
| 14 | — | 70883 47803 10228 | 3 02995 00656 00704 | — 9 84160 24441 02864 |
| 15 | — | 67254 73801 41000 | 2 86542 62878 28896 | — 9 27950 90450 79280 |
| 16 | — | 63974 64119 19342 | 2 71769 43992 34424 | — 8 77779 29747 61936 |
| 17 | — | 60995 91747 09976 | 2 58433 10198 74304 | — 8 32727 60246 49552 |
| 18 | — | 58279 35268 44984 | 2 46335 35067 34184 | — 7 92054 02412 97408 |

| \backslash | k | 15 | 16 | 17 |
|--------------|-----|-------------------|------------------------|-----------------------|
| 1 | 119 | 95839 55370 83104 | —251 42639 18081 44896 | 358 68968 39323 46880 |
| 2 | 93 | 56817 87418 08816 | —184 24842 98616 10368 | 241 61921 60172 71040 |
| 3 | 75 | 94020 97242 65376 | —143 56415 81724 31872 | 179 42360 12231 96160 |
| 4 | 63 | 59396 18277 18384 | —117 00894 00343 54464 | 142 08031 56030 73920 |
| 5 | 54 | 56961 44793 77760 | — 98 53671 49483 39200 | 117 43250 09987 95776 |
| 6 | 47 | 72785 70667 76464 | — 85 01764 49445 69216 | 100 01020 60730 76480 |
| 7 | 42 | 38041 44877 91136 | — 74 72188 59306 90048 | 87 06287 42256 61440 |
| 8 | 38 | 09426 28434 63856 | — 66 63068 45975 17152 | 77 07059 89603 54560 |
| 9 | 34 | 58612 19918 01824 | — 60 10968 94190 11584 | 69 12887 09693 87520 |
| 10 | 31 | 66398 76437 81360 | — 54 74491 09074 14400 | 62 66696 66663 47776 |
| 11 | 29 | 19358 70039 15424 | — 50 25533 03021 58336 | 57 30744 24167 50080 |
| 12 | 27 | 07841 85153 79056 | — 46 44376 51606 79328 | 52 79089 38123 39840 |
| 13 | 25 | 24745 21081 31936 | — 43 16790 99395 12832 | 48 93324 65268 24960 |
| 14 | 23 | 64730 23126 78864 | — 40 32255 49677 23904 | 45 60030 61923 57120 |
| 15 | 22 | 23710 08539 29760 | — 37 82827 45362 81600 | 42 69195 76962 67776 |
| 16 | 20 | 98504 89339 27984 | — 35 62400 44023 80256 | 40 13200 53024 07680 |
| 17 | 19 | 86604 41110 76576 | — 33 66203 74569 26208 | 37 86143 89727 46240 |
| 18 | 18 | 86001 21867 65616 | — 31 90456 79834 46912 | 35 83385 20384 47360 |

| \backslash | k | 18 | 19 |
|--------------|------|-------------------|-----------------------|
| 1 | —309 | 92004 64088 06400 | 121 64510 04088 32000 |
| 2 | —185 | 37129 83066 11200 | 60 82255 02044 16000 |
| 3 | —130 | 33892 66715 64800 | 40 54836 68029 44000 |
| 4 | —100 | 28846 79288 57600 | 30 41127 51022 08000 |
| 5 | — 81 | 44722 53471 74400 | 24 32902 00817 66400 |
| 6 | — 68 | 54849 39026 94400 | 20 27418 34014 72000 |
| 7 | — 59 | 16961 07615 23200 | 17 37787 14869 76000 |
| 8 | — 52 | 04493 86583 16800 | 15 20563 75511 04000 |
| 9 | — 46 | 44989 16166 65600 | 13 51612 22676 48000 |

| $\begin{array}{c} k \\ \searrow \\ v \end{array}$ | 18 | 19 |
|---|------------------------|----------------------|
| 10 | — 41 94006 36776 75520 | 12 16451 00408 83200 |
| 11 | — 38 22786 37569 02400 | 11 05864 54917 12000 |
| 12 | — 35 11900 45930 75200 | 10 13709 17007 36000 |
| 13 | — 32 47752 54924 28800 | 9 35731 54160 64000 |
| 14 | — 30 20544 36481 53600 | 8 68893 57434 88000 |
| 15 | — 28 23036 48971 36640 | 8 10967 33605 88800 |
| 16 | — 26 49764 55026 30400 | 7 60281 87755 52000 |
| 17 | — 24 96526 78044 67200 | 7 15559 41416 96000 |
| 18 | — 23 60039 36491 00800 | 6 75806 11338 24000 |

TABLEAUX ${}^v S_{21}^k$

| $\begin{array}{c} k \\ \searrow \\ v \end{array}$ | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|------|-------|-----------|-----------|--------------|---------------|
| 1 | 1 | —209 | 20406 | —12 36444 | 520 91502 | —16201 89318 | 3 85515 82312 |
| 2 | 1 | —208 | 20199 | —12 16452 | 508 95042 | —15704 90736 | 3 70307 90158 |
| 3 | 1 | —207 | 19994 | —11 96868 | 497 37342 | —15230 68794 | 3 56025 65248 |
| 4 | 1 | —206 | 19791 | —11 77686 | 486 17202 | —14778 12012 | 3 42605 23582 |
| 5 | 1 | —205 | 19590 | —11 58900 | 475 33446 | —14346 13590 | 3 29987 03680 |
| 6 | 1 | —204 | 19391 | —11 40504 | 464 84922 | —13933 71288 | 3 18115 43902 |
| 7 | 1 | —203 | 19194 | —11 22492 | 454 70502 | —13539 87306 | 3 06938 60488 |
| 8 | 1 | —202 | 18999 | —11 04858 | 444 89082 | —13163 68164 | 2 96408 26318 |
| 9 | 1 | —201 | 18806 | —10 87596 | 435 39582 | —12804 24582 | 2 86479 50392 |
| 10 | 1 | —200 | 18615 | —10 70700 | 426 20946 | —12460 71360 | 2 77110 58030 |
| 11 | 1 | —199 | 18426 | —10 54164 | 417 32142 | —12132 27258 | 2 68262 71792 |
| 12 | 1 | —198 | 18239 | —10 37982 | 408 72162 | —11818 14876 | 2 59899 93118 |
| 13 | 1 | —197 | 18054 | —10 22148 | 400 40022 | —11517 60534 | 2 51988 84688 |
| 14 | 1 | —196 | 17871 | —10 06656 | 392 34762 | —11229 94152 | 2 44498 53502 |
| 15 | 1 | —195 | 17690 | — 9 91500 | 384 55446 | —10954 49130 | 2 37400 34680 |
| 16 | 1 | —194 | 17511 | — 9 76674 | 377 01162 | —10690 62228 | 2 30667 75982 |
| 17 | 1 | —193 | 17334 | — 9 62172 | 369 71022 | —10437 73446 | 2 24276 23048 |
| 18 | 1 | —192 | 17159 | — 9 47988 | 362 64162 | —10195 25904 | 2 18203 05358 |
| 19 | 1 | —191 | 16986 | — 9 34116 | 355 79742 | — 9962 65722 | 2 12427 22912 |

| $\begin{array}{c} k \\ \searrow \\ v \end{array}$ | 8 | 9 | 10 |
|---|-----------------|------------------|--------------------|
| 1 | —71 75596 02188 | 1059 27173 93193 | —12499 24655 06337 |
| 2 | —68 20496 04184 | 994 61777 87013 | —11569 28273 25504 |
| 3 | —64 93034 88756 | 936 23665 29113 | —10749 80833 12191 |
| 4 | —61 90690 90172 | 883 40006 34693 | —10024 91803 60758 |
| 5 | —59 11176 66100 | 835 46886 64881 | — 9381 17395 75125 |

| $v \backslash k$ | 8 | 9 | 10 |
|------------------|-----------------|-----------------|--------------------|
| 6 | —56 52419 21088 | 791 88254 68853 | — 8807 22300 86412 |
| 7 | —54 12541 61084 | 752 14978 67793 | — 8293 46978 24979 |
| 8 | —51 89845 73956 | 715 84004 03733 | — 7831 79796 69666 |
| 9 | —49 82796 30972 | 682 57603 16633 | — 7415 33400 49833 |
| 10 | —47 90006 04200 | 652 02709 53381 | — 7038 24733 65720 |
| 11 | —46 10221 94788 | 623 90328 52713 | — 6695 58215 19687 |
| 12 | —44 42312 67084 | 597 95017 90373 | — 6383 11614 15054 |
| 13 | —42 85256 83556 | 573 94431 09153 | — 6097 24224 80541 |
| 14 | —41 38132 35472 | 551 68916 98773 | — 5834 86991 16708 |
| 15 | —40 00106 64300 | 531 01170 30881 | — 5593 34274 36315 |
| 16 | —38 70427 68788 | 511 75926 94773 | — 5370 36997 83162 |
| 17 | —37 48415 92684 | 493 79699 19753 | — 5163 96942 63729 |
| 18 | —36 33456 88056 | 477 00546 10373 | — 4972 41999 12816 |
| 19 | —35 24994 49172 | 461 27874 61113 | — 4794 22211 38383 |

| $v \backslash k$ | 11 | 12 | 13 |
|------------------|---------------------|----------------------|----------------------|
| 1 | 1 18254 25450 34058 | —8 95975 73204 77392 | 54 07105 47788 17504 |
| 2 | 1 07614 93558 89387 | —7 99000 11537 32676 | 47 05080 97918 29544 |
| 3 | 98504 07606 03822 | —7 18717 75836 99984 | 41 46927 93481 94944 |
| 4 | 90653 82890 97363 | —6 51614 67091 21998 | 36 96622 52628 06904 |
| 5 | 83847 63126 64770 | —5 94991 83021 87600 | 33 28122 05883 56896 |
| 6 | 77910 16300 21923 | —5 46769 00853 79912 | 30 22467 15870 15424 |
| 7 | 72699 21257 65542 | —5 05335 49851 52656 | 27 65732 72032 26304 |
| 8 | 68099 11731 83067 | —4 69437 04800 46914 | 25 47584 82589 19584 |
| 9 | 64015 49500 91898 | —4 38090 53146 84368 | 23 60266 42671 35584 |
| 10 | 60371 02768 83195 | —4 10519 70966 79500 | 21 97884 11324 99896 |
| 11 | 57102 09738 23838 | —3 86106 91534 49232 | 20 55905 14113 53344 |
| 12 | 54156 10735 59747 | —3 64356 69827 94486 | 19 30800 83057 61064 |
| 13 | 51489 35182 93362 | —3 44868 41276 97744 | 18 19791 84392 24224 |
| 14 | 49065 32229 06483 | —3 27315 47448 20688 | 17 20664 56718 05264 |
| 15 | 46853 35989 95670 | —3 11429 58805 76400 | 16 31637 38906 48896 |
| 16 | 44827 58140 09803 | —2 96988 68413 54602 | 15 51262 26376 21264 |
| 17 | 42966 02080 57002 | —2 83807 63285 42416 | 14 78351 45140 73824 |
| 18 | 41249 94121 09707 | —2 71731 04475 36724 | 14 11922 40436 33864 |
| 19 | 39663 28089 11118 | —2 60627 64962 00208 | 13 51155 86714 90944 |

| $v \backslash k$ | 14 | 15 |
|------------------|------------------------|-----------------------|
| 1 | —257 26258 83825 73136 | 949 38521 53978 00224 |
| 2 | —217 23202 35777 31552 | 772 18375 66249 10256 |
| 3 | —186 92580 51168 05808 | 645 87038 84299 55936 |
| 4 | —163 46874 21101 63024 | 552 77283 53397 21264 |
| 5 | —144 92754 02196 06160 | 482 01010 26823 42560 |

| \backslash | k | 14 | 15 |
|--------------|------|-------------------|-----------------------|
| v | | | |
| 6 | —129 | 98561 36392 98096 | 426 73412 19445 84784 |
| 7 | —117 | 73235 27388 06512 | 382 52133 46087 27776 |
| 8 | —107 | 52685 70900 33968 | 346 43294 70601 01616 |
| 9 | —98 | 90966 47571 70384 | 316 46082 09658 39904 |
| 10 | —91 | 54523 18363 91680 | 291 19548 54164 56560 |
| 11 | —85 | 18407 76365 03856 | 269 62294 97788 30944 |
| 12 | —79 | 63754 34922 57872 | 250 99728 18732 78896 |
| 13 | —74 | 76070 34514 75728 | 234 75865 89111 88896 |
| 14 | —70 | 44060 37561 16944 | 220 47935 11947 36144 |
| 15 | —66 | 58803 48016 57200 | 207 82728 17555 15360 |
| 16 | —63 | 13168 09594 50416 | 196 54090 84291 66704 |
| 17 | —60 | 01389 64221 35632 | 186 41156 46040 67616 |
| 18 | —57 | 18761 03759 81088 | 177 27081 70127 13776 |
| 19 | —54 | 61402 84030 62704 | 168 98126 41221 81984 |

| \backslash | k | 16 | 17 |
|--------------|-------|-------------------|------------------------|
| v | | | |
| 1 | —2650 | 59430 25498 06976 | 5387 21752 00952 44800 |
| 2 | —2055 | 61200 46977 86688 | 3926 58781 32494 78400 |
| 3 | —1662 | 36835 26577 39392 | 3050 70676 46718 33600 |
| 4 | —1388 | 88817 65887 22144 | 2482 25911 62901 63200 |
| 5 | —1189 | 92900 45358 94400 | 2088 16679 99655 79776 |
| 6 | —1039 | 57478 62800 98496 | 1800 36310 49644 60800 |
| 7 | —922 | 33017 56865 12768 | 1581 50059 28394 62400 |
| 8 | —828 | 51594 14667 94272 | 1409 68429 09106 97600 |
| 9 | —751 | 83212 92550 48064 | 1271 32265 93496 19200 |
| 10 | —688 | 02466 37830 41600 | 1157 56518 48146 35776 |
| 11 | —634 | 12707 03804 66816 | 1062 41404 84599 16800 |
| 12 | —588 | 01213 54682 60448 | 981 66619 70259 26400 |
| 13 | —548 | 11695 21021 51552 | 912 29144 53170 81600 |
| 14 | —513 | 26860 12213 01184 | 852 05140 55468 35200 |
| 15 | —482 | 57029 16148 76800 | 799 25744 84218 99776 |
| 16 | —455 | 32498 30809 39936 | 752 61209 33500 12800 |
| 17 | —430 | 98291 96784 57728 | 711 10218 81112 70400 |
| 18 | —409 | 10481 17187 59232 | 673 92521 17073 85600 |
| 19 | —389 | 33549 96261 49504 | 640 43732 97482 11200 |

| \backslash | k | 18 | 19 | 20 |
|--------------|-------|-------------------|------------------------|-------------------------|
| v | | | | |
| 1 | —7483 | 71372 50557 44000 | 6320 04602 85849 60000 | —2432 90200 81766 40000 |
| 2 | —5017 | 75561 86520 32000 | 3768 24851 63366 40000 | —1216 45100 40883 20000 |
| 3 | —3718 | 81095 11354 88000 | 2647 32690 02342 40000 | —810 96733 60588 80000 |
| 4 | —2941 | 89477 99903 36000 | 2036 18063 36793 60000 | —608 22550 20441 60000 |
| 5 | —2430 | 09724 53230 89920 | 1653 27352 70252 54400 | —486 58040 16353 28000 |

| $\backslash \begin{matrix} k \\ v \end{matrix}$ | 18 | 19 | 20 |
|---|-------------------------|------------------------|-------------------------|
| 6 | —2068 75261 53642 24000 | 1391 24406 14553 60000 | — 405 48366 80294 40000 |
| 7 | —1800 42709 52747 52000 | 1200 77008 67174 40000 | — 347 55742 97395 20000 |
| 8 | —1593 45691 78654 08000 | 1056 10441 07174 40000 | — 304 11275 10220 80000 |
| 9 | —1429 02731 10044 16000 | 942 51395 46009 60000 | — 270 32244 53529 60000 |
| 10 | —1295 27939 70046 31040 | 850 96578 35943 93600 | — 243 29020 08176 64000 |
| 11 | —1184 37671 20919 04000 | 775 61592 06297 60000 | — 221 17290 98342 40000 |
| 12 | —1090 93688 08398 72000 | 712 51718 35622 40000 | — 202 74183 40147 20000 |
| 13 | —1011 14245 60289 28000 | 658 90782 52646 40000 | — 187 14630 83212 80000 |
| 14 | — 942 21156 74952 96000 | 612 79780 87065 60000 | — 173 77871 48697 60000 |
| 15 | — 882 06951 88224 92160 | 572 71697 13033 21600 | — 162 19346 72117 76000 |
| 16 | — 829 13775 15507 84000 | 537 55572 88281 60000 | — 152 05637 55110 40000 |
| 17 | — 782 19404 72593 92000 | 506 46095 02310 40000 | — 143 11188 28339 20000 |
| 18 | — 740 27743 44180 48000 | 478 76593 41158 40000 | — 135 16122 26764 80000 |
| 19 | — 702 62197 99349 76000 | 453 94213 48761 60000 | — 128 04747 41145 60000 |

TABLEAUX ${}^v S_{22}^k$

| $\backslash \begin{matrix} k \\ v \end{matrix}$ | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|------------------|------------------|--------------------|-----------|-----------|--------------|---------------|
| 1 | 1 | —230 | 24795 | —16 64970 | 780 56826 | —27141 10860 | 7 25755 57990 |
| 2 | 1 | —229 | 24567 | —16 40631 | 764 40534 | —26392 86618 | 7 00110 95614 |
| 3 | 1 | —228 | 24341 | —16 16742 | 748 71570 | —25675 52976 | 6 75870 09922 |
| 4 | 1 | —227 | 24117 | —15 93297 | 733 48608 | —24987 73254 | 6 52945 75834 |
| 5 | 1 | —226 | 23895 | —15 70290 | 718 70346 | —24328 15956 | 6 31255 89070 |
| 6 | 1 | —225 | 23675 | —15 47715 | 704 35506 | —23695 54650 | 6 10723 40950 |
| 7 | 1 | —224 | 23457 | —15 25566 | 690 42834 | —23088 67848 | 5 91275 93914 |
| 8 | 1 | —223 | 23241 | —15 03837 | 676 91100 | —22506 38886 | 5 72845 57762 |
| 9 | 1 | —222 | 23027 | —14 82522 | 663 79098 | —21947 55804 | 5 55368 66614 |
| 10 | 1 | —221 | 22815 | —14 61615 | 651 05646 | —21411 11226 | 5 38785 56590 |
| 11 | 1 | —220 | 22605 | —14 41110 | 638 69586 | —20896 02240 | 5 23040 44210 |
| 12 | 1 | —219 | 22397 | —14 21001 | 626 69784 | —20401 30278 | 5 08081 05514 |
| 13 | 1 | —218 | 22191 | —14 01282 | 615 05130 | —19926 00996 | 4 93858 55902 |
| 14 | 1 | —217 | 21987 | —13 81947 | 603 74538 | —19469 24154 | 4 80327 30694 |
| 15 | 1 | —216 | 21785 | —13 62990 | 592 76946 | —19030 13496 | 4 67444 66410 |
| 16 | 1 | —215 | 21585 | —13 44405 | 582 11316 | —18607 86630 | 4 55170 82770 |
| 17 | 1 | —214 | 21387 | —13 26186 | 571 76634 | —18201 64908 | 4 43468 65414 |
| 18 | 1 | —213 | 21191 | —13 08327 | 561 71910 | —17810 73306 | 4 32303 49342 |
| 19 | 1 | —212 | 20997 | —12 90822 | 551 96178 | —17434 40304 | 4 21643 03074 |
| 20 | 1 | —211 | 20805 | —12 73665 | 542 48496 | —17071 97766 | 4 11457 13530 |
| $\backslash \begin{matrix} k \\ v \end{matrix}$ | 8 | | 9 | | 10 | | |
| 1 | —152 71428 30740 | 2566 14690 39141 | —34743 95307 63390 | | | | |

| <i>v</i> | <i>k</i> | 8 | 9 | 10 |
|----------|----------|------------------|------------------|--------------------|
| | 2 | —145 96961 97502 | 2426 92194 74877 | —32456 25608 52777 |
| | 3 | —139 69573 58964 | 2299 77397 92989 | —30410 77804 23564 |
| | 4 | —133 85400 85394 | 2183 44515 28305 | —28576 31936 89311 |
| | 5 | —128 40904 43380 | 2076 81596 52981 | —26926 02015 37626 |
| | 6 | —123 32843 43030 | 1978 89058 11701 | —25436 75649 32325 |
| | 7 | —118 58252 31332 | 1888 78352 50557 | —24088 61530 48632 |
| | 8 | —114 14419 26634 | 1805 70764 56809 | —22864 43881 48059 |
| | 9 | —109 98865 89204 | 1728 96325 67045 | —21749 43066 99126 |
| | 10 | —106 09328 22830 | 1657 92836 41581 | —20730 81633 86721 |
| | 11 | —102 43739 02420 | 1592 04989 43261 | —19797 55114 26660 |
| | 12 | —99 00211 22562 | 1530 83583 99137 | —18940 06990 12887 |
| | 13 | —95 77022 62004 | 1473 84824 63829 | —18150 07277 72754 |
| | 14 | —92 72601 59014 | 1420 69696 43685 | —17420 34247 90941 |
| | 15 | —89 85513 92580 | 1371 03409 81181 | —16744 58850 84816 |
| | 16 | —87 14450 64410 | 1324 54908 39321 | —16117 31463 73395 |
| | 17 | —84 58216 76692 | 1280 96433 66117 | —15533 70625 78542 |
| | 18 | —82 15721 00574 | 1240 03140 59549 | —14989 53467 30649 |
| | 19 | —79 85966 30324 | 1201 52758 93725 | —14481 07578 21756 |
| | 20 | —77 68041 18130 | 1165 25295 07281 | —14005 04096 56911 |

| <i>v</i> | <i>k</i> | 11 | 12 | 13 |
|----------|----------|---------------------|-----------------------|-----------------------|
| | 1 | 3 80738 43206 67135 | —33 79315 07661 92610 | 242 22595 85088 42736 |
| | 2 | 3 50569 87297 24971 | —30 58913 76274 09803 | 214 84083 40202 15740 |
| | 3 | 3 24250 05101 59833 | —27 87303 35563 80246 | 192 40000 86058 94608 |
| | 4 | 3 01177 10766 73281 | —25 55345 07801 66621 | 173 80530 61543 68862 |
| | 5 | 2 80852 28437 42395 | —23 55792 08681 47770 | 158 22950 49342 96496 |
| | 6 | 2 62861 84618 36575 | —21 82882 43158 40295 | 145 04616 33799 93576 |
| | 7 | 2 46862 07800 90101 | —20 32018 96262 29038 | 133 77778 18914 32080 |
| | 8 | 2 32566 87462 46053 | —18 99518 51168 91321 | 124 05762 83399 04778 |
| | 9 | 2 19737 50911 38391 | —17 82415 92666 14226 | 115 60167 58755 07312 |
| | 10 | 2 08174 22175 63315 | —16 78311 29112 26595 | 108 18798 01627 69396 |
| | 11 | 1 97709 32257 37265 | —15 85250 96037 49830 | 101 64150 36337 87216 |
| | 12 | 1 88201 54632 75881 | —15 01634 95275 49173 | 95 82291 49444 45270 |
| | 13 | 1 79531 43903 84723 | —14 26144 80118 58346 | 90 62028 51208 76848 |
| | 14 | 1 71597 59043 57351 | —13 57687 24258 56831 | 85 94289 53130 39712 |
| | 15 | 1 64313 55751 58285 | —12 95350 14594 85470 | 81 71658 73827 53296 |
| | 16 | 1 57605 35094 56205 | —12 38367 89355 60465 | 77 88024 63060 67906 |
| | 17 | 1 51409 37875 95311 | —11 86094 06977 39458 | 74 38311 74134 64560 |
| | 18 | 1 45670 76102 78843 | —11 37979 81018 40571 | 71 18274 34419 05068 |
| | 19 | 1 40341 94528 17161 | —10 93556 54833 33686 | 68 24336 50916 95312 |
| | 20 | 1 35381 56582 92305 | —10 52422 19210 13645 | 65 53467 08547 62446 |

| $v \backslash k$ | 14 | 15 |
|------------------|-------------------------|------------------------|
| 1 | —1392 75473 87377 40720 | 6351 89957 14318 36080 |
| 2 | —1205 29902 92061 51976 | 5334 05625 17572 72848 |
| 3 | —1057 78067 14288 99632 | 4571 31229 58828 77904 |
| 4 | — 939 75947 26291 08008 | 3985 61641 96531 44768 |
| 5 | — 843 83317 25751 00976 | 3525 48844 72940 71920 |
| 6 | — 764 70371 69666 22000 | 3156 43200 83698 44800 |
| 7 | — 698 53622 40065 58896 | 2854 90074 21236 64528 |
| 8 | — 642 51967 05273 45232 | 2604 49694 59508 14944 |
| 9 | — 594 56561 43670 17648 | 2393 56378 08664 17968 |
| 10 | — 553 10089 56188 89496 | 2213 64535 39806 81840 |
| 11 | — 516 92415 72749 24080 | 2058 48858 01454 11920 |
| 12 | — 485 10571 79132 40216 | 1923 38569 52106 94208 |
| 13 | — 456 91699 06751 84432 | 1804 73343 13921 79184 |
| 14 | — 431 78016 28640 27488 | 1699 73203 00731 91968 |
| 15 | — 409 23188 65052 84016 | 1606 17601 25903 16560 |
| 16 | — 388 89675 63494 96960 | 1522 30620 85776 25440 |
| 17 | — 370 46770 12176 85936 | 1446 70338 94689 15888 |
| 18 | — 353 69131 52922 92232 | 1378 21063 49083 16624 |
| 19 | — 338 35676 05043 72528 | 1315 87586 05864 98768 |
| 20 | — 324 28728 01513 34536 | 1258 90870 71428 86080 |

| $v \backslash k$ | 16 | 17 |
|------------------|--------------------------|-------------------------|
| 1 | —22587 68382 59036 11680 | 61049 69787 36411 91296 |
| 2 | —18271 47089 38209 02064 | 47094 43991 19029 98848 |
| 3 | —15225 64650 96868 14048 | 37960 44217 04843 60832 |
| 4 | —12997 11771 87228 68688 | 31648 91082 46533 28224 |
| 5 | —11312 14116 08650 88160 | 27076 67589 52193 62176 |
| 6 | —10000 99134 71163 78960 | 23631 43361 68465 29216 |
| 7 | — 8955 27820 24697 96064 | 20950 43428 22562 30528 |
| 8 | — 8103 60782 97289 28208 | 18808 51906 17133 77312 |
| 9 | — 7397 50936 95376 86048 | 17059 79737 37056 28544 |
| 10 | — 6803 12985 75286 29360 | 15606 08312 42585 09376 |
| 11 | — 6296 20901 57359 16640 | 14379 08252 64497 19936 |
| 12 | — 5858 95505 48071 17264 | 13329 92104 18593 95808 |
| 13 | — 5478 04878 92371 18368 | 12422 74743 94622 64192 |
| 14 | — 5143 33497 63107 60208 | 11630 69203 11941 60064 |
| 15 | — 4846 94320 84806 99360 | 10933 23357 23343 12576 |
| 16 | — 4582 68406 00934 40720 | 10314 43673 80497 51456 |
| 17 | — 4345 62577 63638 77664 | 9761 74350 13588 82688 |
| 18 | — 4131 79196 89857 48528 | 9265 12625 78013 29472 |
| 19 | — 3937 94204 61919 71168 | 8816 48282 18973 50784 |
| 20 | — 3761 40925 44777 26160 | 8409 19660 99902 79776 |

| $v \backslash k$ | 18 | 19 |
|------------------|-------------------------|---------------------------|
| 1 — | 20615 28164 70558 84800 | 1 63478 03425 47555 84000 |
| 2 — | 87476 09969 68910 78400 | 1 09141 11650 80293 12000 |
| 3 — | 67783 65300 92439 93600 | 80742 35687 40794 88000 |
| 4 — | 55069 33622 20837 63200 | 63815 97101 34764 16000 |
| 5 — | 46281 60004 46002 65216 | 52685 31567 88101 42720 |
| 6 — | 39876 37781 96179 00800 | 44835 04898 41040 64000 |
| 7 — | 35011 93954 49034 62400 | 39009 73908 74872 32000 |
| 8 — | 31196 82702 69900 57600 | 34518 69968 58910 08000 |
| 9 — | 28126 80315 73464 19200 | 30952 08748 56936 96000 |
| 10 — | 25604 14827 81119 82336 | 28051 83312 06916 45440 |
| 11 — | 23495 07172 97501 56800 | 25647 52687 45597 44000 |
| 12 — | 21705 92701 83843 26400 | 23622 19168 11995 52000 |
| 13 — | 20169 26280 76876 41600 | 21892 89940 18721 28000 |
| 14 — | 18835 29108 39788 35200 | 20399 24072 61077 76000 |
| 15 — | 17666 47593 56823 87456 | 19096 17686 65756 56960 |
| 16 — | 16633 99171 19010 52800 | 17949 44851 13946 24000 |
| 17 — | 15715 33999 75960 70400 | 16932 53594 26782 72000 |
| 18 — | 14892 70688 02731 45600 | 16024 59205 68948 48000 |
| 19 — | 14151 80590 46474 11200 | 15209 00371 35106 56000 |
| 20 — | 13481 04732 08914 80576 | 14472 36948 39818 57280 |

| $v \backslash k$ | 20 | 21 |
|------------------|-------------------------|-------------------------|
| 1 — | 35153 86860 84608 00000 | 51090 94217 17094 40000 |
| 2 — | 80349 66984 71577 60000 | 25545 47108 58547 20000 |
| 3 — | 56404 83224 09779 20000 | 17030 31405 72364 80000 |
| 4 — | 43368 01880 93107 20000 | 12772 73554 29273 60000 |
| 5 — | 35205 32446 91656 70400 | 10218 18843 43418 88000 |
| 6 — | 29621 60895 85920 00000 | 8515 15702 86182 40000 |
| 7 — | 25563 72925 08057 60000 | 7298 70602 45299 20000 |
| 8 — | 22482 30537 60883 20000 | 6386 36777 14636 80000 |
| 9 — | 20063 11549 19731 20000 | 5676 77135 24121 60000 |
| 10 — | 18113 57165 62999 29600 | 5109 09421 71709 44000 |
| 11 — | 16509 10724 30592 00000 | 4644 63110 65190 40000 |
| 12 — | 15165 60268 88217 60000 | 4257 57851 43091 20000 |
| 13 — | 14024 21063 88787 20000 | 3930 07247 47468 80000 |
| 14 — | 13042 53269 77075 20000 | 3649 35301 22649 60000 |
| 15 — | 12189 24986 45815 29600 | 3406 06281 14472 96000 |
| 16 — | 11440 72668 09024 00000 | 3193 18388 57318 40000 |
| 17 — | 10778 79183 76857 60000 | 3005 34953 95123 20000 |
| 18 — | 10189 24583 91091 20000 | 2838 38567 62060 80000 |
| 19 — | 9660 83230 65139 20000 | 2688 99695 64057 60000 |
| 20 — | 9184 51318 35792 38400 | 2554 54710 85854 72000 |

TABLEAUX ${}^v S_{23}^k$

| $v \backslash k$ | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|------------------|---|------|-------|-----------|------------|--------------|----------------|
| 1 | 1 | -252 | 29855 | -22 10460 | 1146 86166 | -44313 61032 | 13 22859 96910 |
| 2 | 1 | -251 | 29605 | -21 81105 | 1125 34416 | -43209 78366 | 12 80754 01210 |
| 3 | 1 | -250 | 29357 | -21 52244 | 1104 39894 | -42147 27516 | 12 40731 75394 |
| 4 | 1 | -249 | 29111 | -21 23871 | 1084 01142 | -41124 42630 | 12 02675 87422 |
| 5 | 1 | -248 | 28867 | -20 95980 | 1064 16726 | -40139 63568 | 11 66475 40102 |
| 6 | 1 | -247 | 28625 | -20 68565 | 1044 85236 | -39191 35782 | 11 32025 43250 |
| 7 | 1 | -246 | 28385 | -20 41620 | 1026 05286 | -38278 10196 | 10 99226 86570 |
| 8 | 1 | -245 | 28147 | -20 15139 | 1007 75514 | -37398 43086 | 10 67986 13254 |
| 9 | 1 | -244 | 27911 | -19 89116 | 989 94582 | -36550 95960 | 10 38214 94302 |
| 10 | 1 | -243 | 27677 | -19 63545 | 972 61176 | -35734 35438 | 10 09830 03562 |
| 11 | 1 | -242 | 27445 | -19 38420 | 955 74006 | -34947 33132 | 9 82752 93490 |
| 12 | 1 | -241 | 27215 | -19 13735 | 939 31806 | -34188 65526 | 9 56909 71630 |
| 13 | 1 | -240 | 26987 | -18 89484 | 923 33334 | -33457 13856 | 9 32230 77814 |
| 14 | 1 | -239 | 26761 | -18 65661 | 907 77372 | -32751 63990 | 9 08650 62082 |
| 15 | 1 | -238 | 26537 | -18 42260 | 892 62726 | -32071 06308 | 8 86107 63322 |
| 16 | 1 | -237 | 26315 | -18 19275 | 877 88226 | -31414 35582 | 8 64543 88630 |
| 17 | 1 | -236 | 26095 | -17 96700 | 863 52726 | -30780 50856 | 8 43904 93390 |
| 18 | 1 | -235 | 25877 | -17 74529 | 849 55104 | -30168 55326 | 8 24139 62074 |
| 19 | 1 | -234 | 25661 | -17 52756 | 835 94262 | -29577 56220 | 8 05199 89762 |
| 20 | 1 | -233 | 25447 | -17 31375 | 822 69126 | -29006 64678 | 7 87040 64382 |
| 21 | 1 | -232 | 25235 | -17 10380 | 809 78646 | -28454 95632 | 7 69619 49670 |

| $v \backslash k$ | 8 | 9 | 10 |
|------------------|------------------|------------------|--------------------|
| 1 | -312 38051 06520 | 5925 86113 15421 | -91199 18496 24492 |
| 2 | -299 99403 01010 | 5638 25358 19921 | -85848 53893 00071 |
| 3 | -288 38715 77248 | 5373 08016 90197 | -81005 80558 69322 |
| 4 | -277 50207 53742 | 5128 23334 06973 | -76612 11273 12021 |
| 5 | -267 28534 02920 | 4901 81494 07341 | -72615 97139 03208 |
| 6 | -257 68758 43930 | 4692 11613 58361 | -68972 34927 89747 |
| 7 | -248 66322 97440 | 4497 59903 39861 | -65641 85285 60886 |
| 8 | -240 17021 97398 | 4316 87988 42757 | -62590 00701 97857 |
| 9 | -232 16976 54712 | 4148 71375 29533 | -59786 62231 74116 |
| 10 | -224 62610 67810 | 3991 98057 43841 | -57205 24035 01503 |
| 11 | -217 50628 75040 | 3845 67247 96501 | -54822 64881 78402 |
| 12 | -210 77994 43870 | 3708 88230 95501 | -52618 45837 93901 |
| 13 | -204 41910 91848 | 3580 79322 27917 | -50574 73419 76992 |
| 14 | -198 39802 34282 | 3460 66931 41993 | -48675 67569 52011 |
| 15 | -192 69296 53600 | 3347 84716 17941 | -46907 33866 70798 |
| 16 | -187 28208 85350 | 3241 72822 56341 | -45257 39448 38457 |
| 17 | -182 14527 15800 | 3141 77202 53341 | -43714 92166 33116 |
| 18 | -177 26397 86098 | 3047 49002 72177 | -42270 22560 40727 |
| 19 | -172 62112 97952 | 2958 44017 60853 | -40914 68274 83706 |

| $\begin{array}{c} k \\ \backslash \\ v \end{array}$ | 8 | 9 | 10 |
|---|------------------|------------------|--------------------|
| 20 | —168 20098 15790 | 2874 22201 06141 | —39640 60588 17093 |
| 21 | —163 98901 60360 | 2794 47230 54381 | —38441 12767 97912 |

| $\begin{array}{c} k \\ \backslash \\ v \end{array}$ | 11 | 12 | 13 |
|---|----------------------|------------------------|-----------------------|
| 1 | 11 45105 39974 61715 | —117 55560 58208 69580 | 985 67527 53650 80156 |
| 2 | 10 64607 50684 86065 | —107 71450 96813 59165 | 887 80186 18232 31406 |
| 3 | 9 93287 16794 78241 | —99 20804 47798 96572 | 805 60674 68462 60020 |
| 4 | 9 29856 13378 38123 | —91 81241 44669 78803 | 735 98122 33180 34524 |
| 5 | 8 73224 72775 70167 | —85 34542 34304 80460 | 676 50376 40335 47436 |
| 6 | 8 22470 48903 47725 | —79 65843 04762 44945 | 625 28029 83284 80066 |
| 7 | 7 76811 61471 60005 | —74 62984 67882 11260 | 580 82195 36684 70916 |
| 8 | 7 35584 52855 03351 | —70 15989 75343 04487 | 541 95170 09115 13840 |
| 9 | 6 98224 98385 19163 | —66 16641 12716 58828 | 507 73317 97410 20284 |
| 10 | 6 64252 18120 71177 | —62 58144 16976 19525 | 477 41646 42097 54486 |
| 11 | 6 33255 44771 23785 | —59 34856 05699 69660 | 450 39671 49162 83476 |
| 12 | 6 04883 08415 59395 | —56 42068 97196 18555 | 426 18260 45505 27076 |
| 13 | 5 78833 04013 85311 | —53 75836 46003 22252 | 404 37214 13817 60460 |
| 14 | 5 54845 12497 58053 | —51 32834 23217 18553 | 384 63408 86818 89994 |
| 15 | 5 32694 50470 24237 | —49 10248 41129 67740 | 366 69361 94914 33636 |
| 16 | 5 12186 27296 70895 | —47 05685 61435 96975 | 350 32118 28883 98136 |
| 17 | 4 93150 91643 23235 | —45 17100 40248 36300 | 335 32381 27637 32636 |
| 18 | 4 75440 52383 53121 | —43 42736 55279 75117 | 321 53830 16823 97630 |
| 19 | 4 58925 61248 95793 | —41 81079 34453 11228 | 308 82580 57250 36404 |
| 20 | 4 43492 46707 44347 | —40 30816 64034 44355 | 297 06755 31170 62636 |
| 21 | 4 29040 90343 30055 | —38 90807 00974 00140 | 286 16140 91405 46796 |

| $\begin{array}{c} k \\ \backslash \\ v \end{array}$ | 14 | 15 |
|---|-------------------------|-------------------------|
| 1 | —6721 72582 59322 80912 | 36992 50382 36621 31920 |
| 2 | —5931 79737 76508 98256 | 31850 63489 42926 16320 |
| 3 | —5290 58086 07585 81008 | 27842 48706 73186 69808 |
| 4 | —4763 47620 80252 22972 | 24660 32481 74935 20944 |
| 5 | —4324 88228 11296 23888 | 22089 81824 39462 93392 |
| 6 | —3955 71931 13264 80672 | 19979 91378 16355 28800 |
| 7 | —3641 64742 56180 64656 | 18222 69767 02679 60240 |
| 8 | —3371 78749 40052 50348 | 16739 92969 75524 10048 |
| 9 | —3137 80248 36281 78512 | 15474 00729 69408 06224 |
| 10 | —2933 23645 91998 16208 | 14381 86505 75962 50752 |
| 11 | —2753 03723 72182 42832 | 13430 82004 01937 41680 |
| 12 | —2593 20984 66910 36156 | 12595 71148 93019 78960 |
| 13 | —2450 56326 33344 75088 | 11856 90722 62462 36688 |
| 14 | —2322 52385 97509 01152 | 11198 89561 30817 96704 |
| 15 | —2206 99680 89258 56528 | 10609 27751 57065 64912 |

| $v \backslash k$ | 14 | 15 |
|------------------|-------------------------|-------------------------|
| 16 | —2102 26217 50829 90892 | 10078 03484 82665 58560 |
| 17 | —2006 89628 43139 06256 | 9596 99281 62580 06480 |
| 18 | —1919 71167 10142 03728 | 9159 41957 13387 45728 |
| 19 | —1839 71079 25216 69392 | 8759 72459 16826 94384 |
| 20 | —1766 05003 89561 08348 | 8393 22887 04722 45872 |
| 21 | —1698 01150 93458 78352 | 8055 98795 33309 67440 |

| $v \backslash k$ | 16 | 17 |
|------------------|----------------------------|---------------------------|
| 1 | —1 62329 47439 74040 05440 | 5 57978 74204 35206 48256 |
| 2 | —1 35620 70843 24809 04720 | 4 49066 79957 59628 44256 |
| 3 | —1 15794 51701 91101 27936 | 3 72924 66538 35942 69888 |
| 4 | —1 00680 67895 10920 53584 | 3 17585 50063 65564 39360 |
| 5 | — 88872 88700 13346 70400 | 2 75943 78143 42513 01696 |
| 6 | — 79442 49553 12529 64560 | 2 43653 24325 34068 66336 |
| 7 | — 71763 09452 91904 15680 | 2 17966 55473 65917 43936 |
| 8 | — 65402 54064 06468 56976 | 1 97087 89131 57497 97888 |
| 9 | — 60055 91254 85988 81344 | 1 79805 00350 35347 21600 |
| 10 | — 55503 32764 51036 29840 | 1 65274 93998 98883 55296 |
| 11 | — 51582 95777 89349 78880 | 1 52895 68087 26398 86016 |
| 12 | — 48173 44034 94423 89840 | 1 42226 93224 76159 75616 |
| 13 | — 45182 18427 98650 60416 | 1 32939 82080 26788 68288 |
| 14 | — 42537 43963 79209 83504 | 1 24784 06151 00308 84640 |
| 15 | — 40182 81548 54676 63680 | 1 17565 98415 89096 98496 |
| 16 | — 38073 42064 88012 00400 | 1 11133 48606 01054 47296 |
| 17 | — 36173 10034 46800 27200 | 1 05365 51058 13641 91296 |
| 18 | — 34452 42593 69687 14256 | 1 00164 54957 54877 97088 |
| 19 | — 32887 21097 90949 44064 | 95451 20783 81207 16480 |
| 20 | — 31457 40081 16212 19920 | 91160 20020 85002 55296 |
| 21 | — 30146 23120 11158 21120 | 87237 36121 74924 10176 |

| $v \backslash k$ | 18 | 19 |
|------------------|-----------------------------|----------------------------|
| 1 | —14 63708 63486 71620 93312 | 28 17014 23048 99850 49600 |
| 2 | —11 23553 77775 87570 53056 | 20 33615 30983 96330 36800 |
| 3 | — 9 02913 38075 98999 31904 | 15 71982 72307 74473 47200 |
| 4 | — 7 51345 37436 44569 84128 | 12 75341 36789 93192 06400 |
| 5 | — 6 41968 46973 94262 33088 | 10 70880 51666 00159 77472 |
| 6 | — 5 59767 91739 02415 43552 | 9 22115 36101 56978 81600 |
| 7 | — 4 95921 49375 45405 34016 | 8 09272 40907 53634 04800 |
| 8 | — 4 44984 24638 46843 58464 | 7 20848 89427 96722 75200 |
| 9 | — 4 03442 34537 88702 47168 | 6 49741 75694 73149 18400 |
| 10 | — 3 68937 97701 17991 88608 | 5 91343 09523 91552 56832 |

| <i>v</i> | <i>k</i> | 18 | 19 |
|----------|----------|-------------------------|---------------------------|
| 11 | — 3 | 39834 88731 16439 95392 | 5 42539 10492 90631 93600 |
| 12 | — 3 | 14964 18993 92910 34176 | 5 01152 58608 56547 32800 |
| 13 | — 2 | 93469 70647 58574 53824 | 4 65616 68117 10002 43200 |
| 14 | — 2 | 74710 51577 02503 56608 | 4 34775 64457 36421 50400 |
| 15 | — 2 | 58197 61452 70372 64128 | 4 07758 64745 15881 80992 |
| 16 | — 2 | 43551 59994 89955 84832 | 3 83897 26617 32177 85600 |
| 17 | — 2 | 30473 69702 74914 89536 | 3 62670 01588 97918 20800 |
| 18 | — 2 | 18725 48455 19023 93984 | 3 43664 14342 29040 51200 |
| 19 | — 2 | 08114 42798 63891 28448 | 3 26548 73361 57537 02400 |
| 20 | — 1 | 98483 37274 06776 35648 | 3 11055 41054 35944 29952 |
| 21 | — 1 | 89702 79134 33421 27872 | 2 96964 24714 69624 57600 |

| <i>v</i> | <i>k</i> | 20 | 21 |
|----------|----------|-------------------------|----------------------------|
| 1 | —37 | 31670 62221 30836 48000 | 30 24476 05155 78470 40000 |
| 2 | —24 | 81454 23302 38026 24000 | 17 93238 20772 33254 40000 |
| 3 | —18 | 32736 68347 07266 56000 | 12 57936 62335 87507 20000 |
| 4 | —14 | 47319 38110 57918 72000 | 9 66869 14934 77632 00000 |
| 5 | —11 | 94282 26940 29888 10240 | 7 84735 32675 59866 36800 |
| 6 | —10 | 15992 68660 88814 08000 | 6 60190 55411 76422 40000 |
| 7 | —8 | 83777 98917 55248 64000 | 5 69700 74954 22566 40000 |
| 8 | —7 | 81893 69846 56904 96000 | 5 00997 08604 54067 20000 |
| 9 | —7 | 01009 04017 72344 32000 | 4 47065 31217 58208 00000 |
| 10 | —6 | 35253 90031 15161 29280 | 4 03607 67065 57693 95200 |
| 11 | —5 | 80754 69848 33735 68000 | 3 67844 99045 38214 40000 |
| 12 | —5 | 34853 81967 52119 04000 | 3 37900 83766 83878 40000 |
| 13 | —4 | 95667 99748 00655 36000 | 3 12462 70653 00787 20000 |
| 14 | —4 | 61825 82867 20785 92000 | 2 90585 07236 18304 00000 |
| 15 | —4 | 32305 14092 92459 82720 | 2 71569 55983 22409 47200 |
| 16 | —4 | 06328 59393 15841 28000 | 2 54889 17086 55846 40000 |
| 17 | —3 | 83294 58257 66077 44000 | 2 40138 76996 85990 40000 |
| 18 | —3 | 62730 27109 07957 76000 | 2 27001 79413 66067 20000 |
| 19 | —3 | 44258 91400 37483 52000 | 2 15227 30769 97120 00000 |
| 20 | —3 | 27576 64183 11800 98560 | 2 04613 83714 73287 16800 |
| 21 | —3 | 12435 66261 68570 88000 | 1 94997 75881 69318 40000 |

| <i>v</i> | <i>k</i> | 22 |
|----------|----------|-------------------------|
| 1 | —11 | 24000 72777 76076 80000 |
| 2 | —5 | 62000 36388 88038 40000 |
| 3 | —3 | 74666 90925 92025 60000 |
| 4 | —2 | 81000 18194 44019 20000 |
| 5 | —2 | 24800 14555 55215 36000 |

| $v \backslash k$ | 22 |
|------------------|-----------------------------|
| 6 | — 1 87333 45462 96012 80000 |
| 7 | — 1 60571 53253 96582 40000 |
| 8 | — 1 40500 09097 22009 60000 |
| 9 | — 1 24888 96975 30675 20000 |
| 10 | — 1 12400 07277 77607 68000 |
| 11 | — 1 02181 88434 34188 80000 |
| 12 | — 93666 72731 48006 40000 |
| 13 | — 86461 59444 44313 60000 |
| 14 | — 80285 76626 98291 20000 |
| 15 | — 74933 38185 18405 12000 |
| 16 | — 70250 04548 61004 80000 |
| 17 | — 66117 68986 92710 40000 |
| 18 | — 62444 48487 65337 60000 |
| 19 | — 59157 93304 09267 20000 |
| 20 | — 56200 03638 88803 84000 |
| 21 | — 53523 84417 98860 80000 |

TABLEAUX \mathcal{S}_{24}^k

| $v \backslash k$ | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|------------------|---|------|-------|-----------|------------|--------------|----------------|
| 1 | 1 | —275 | 35651 | —28 97125 | 1655 26746 | —70691 42850 | 23 42073 00646 |
| 2 | 1 | —274 | 35378 | —28 62020 | 1626 99831 | —69092 69934 | 22 74579 03628 |
| 3 | 1 | —273 | 35107 | —28 27455 | 1599 41506 | —67548 45078 | 22 10119 08262 |
| 4 | 1 | —272 | 34838 | —27 93424 | 1572 50175 | —66056 68896 | 21 48537 67912 |
| 5 | 1 | —271 | 34571 | —27 59921 | 1546 24266 | —64615 48266 | 20 89687 02166 |
| 6 | 1 | —270 | 34306 | —27 26940 | 1520 62231 | —63222 96210 | 20 33426 66236 |
| 7 | 1 | —269 | 34043 | —26 94475 | 1495 62546 | —61877 31774 | 19 79623 21078 |
| 8 | 1 | —268 | 33782 | —26 62520 | 1471 23711 | —60576 79908 | 19 28150 04232 |
| 9 | 1 | —267 | 33523 | —26 31069 | 1447 44250 | —59319 71346 | 18 78887 01382 |
| 10 | 1 | —266 | 33266 | —26 00116 | 1424 22711 | —58104 42486 | 18 31720 18636 |
| 11 | 1 | —265 | 33011 | —25 69655 | 1401 57666 | —56929 35270 | 17 86541 55526 |
| 12 | 1 | —264 | 32758 | —25 39680 | 1379 47711 | —55792 97064 | 17 43248 78728 |
| 13 | 1 | —263 | 32507 | —25 10185 | 1357 91466 | —54693 80538 | 17 01744 96502 |
| 14 | 1 | —262 | 32258 | —24 81164 | 1336 87575 | —53630 43546 | 16 61938 33852 |
| 15 | 1 | —261 | 32011 | —24 52611 | 1316 34706 | —52601 49006 | 16 23742 08406 |
| 16 | 1 | —260 | 31766 | —24 24520 | 1296 31551 | —51605 64780 | 15 87074 07016 |
| 17 | 1 | —259 | 31523 | —23 96885 | 1276 76826 | —50641 63554 | 15 51856 63078 |
| 18 | 1 | —258 | 31282 | —23 69700 | 1257 69271 | —49708 22718 | 15 18016 34572 |
| 19 | 1 | —257 | 31043 | —23 42959 | 1239 07650 | —48804 24246 | 14 85483 82822 |
| 20 | 1 | —256 | 30806 | —23 16656 | 1220 90751 | —47928 54576 | 14 54193 51976 |
| 21 | 1 | —255 | 30571 | —22 90785 | 1203 17386 | —47080 04490 | 14 24083 49206 |
| 22 | 1 | —254 | 30338 | —22 65340 | 1185 86391 | —46257 68994 | 13 95095 25628 |

Seconde partie

| <i>v</i> | <i>k</i> | 8 | 9 | 10 |
|----------|----------|-------------|-------------------|----------------------|
| 1 | —616 | 63830 35450 | 13110 61287 65381 | —2 27493 99098 79175 |
| 2 | —594 | 56745 28840 | 12538 11627 43151 | —2 15528 37131 58254 |
| 3 | —573 | 75546 11310 | 12005 98479 66901 | —2 04586 64947 43853 |
| 4 | —554 | 11752 64448 | 11510 78107 43039 | —1 94561 47956 72400 |
| 5 | —535 | 57468 25266 | 11049 37776 74501 | —1 85357 71502 72051 |
| 6 | —518 | 05343 38680 | 10618 93057 68751 | —1 76891 02040 32050 |
| 7 | —501 | 48540 88550 | 10216 85331 80981 | —1 69086 63063 77689 |
| 8 | —485 | 80703 02240 | 9840 79493 82911 | —1 61878 24435 81268 |
| 9 | —470 | 95920 23658 | 9488 61835 87909 | —1 55207 03863 53375 |
| 10 | —456 | 88701 49736 | 9158 38103 03471 | —1 49020 79356 09846 |
| 11 | —443 | 53946 25310 | 8848 31709 22421 | —1 43273 11584 97925 |
| 12 | —430 | 86917 91360 | 8556 82103 04511 | —1 37922 75149 90424 |
| 13 | —418 | 83218 81570 | 8282 43273 40421 | —1 32932 97832 19083 |
| 14 | —407 | 38766 62168 | 8023 82385 30479 | —1 28271 06992 17850 |
| 15 | —396 | 49772 10006 | 7779 78536 50741 | —1 23907 82338 83441 |
| 16 | —386 | 12718 23840 | 7549 21626 19391 | —1 19817 14367 34300 |
| 17 | —376 | 24340 63770 | 7331 11327 16741 | —1 15975 67824 59959 |
| 18 | —366 | 81609 13800 | 7124 56153 52431 | —1 12362 49623 00798 |
| 19 | —357 | 81710 62478 | 6928 72616 13749 | —1 08958 80679 83325 |
| 20 | —349 | 22032 96576 | 6742 84458 69311 | —1 05747 71212 58336 |
| 21 | —341 | 00150 02770 | 6566 21967 42661 | —1 02713 99070 48675 |
| 22 | —333 | 13807 72280 | 6398 21348 10671 | — 99843 90728 09794 |

| <i>v</i> | <i>k</i> | 11 | 12 | 13 |
|----------|----------|-------------------|------------------------|------------------------|
| 1 | 32 | 42686 65388 25031 | —380 92984 77624 89025 | 3689 45420 92450 80496 |
| 2 | 30 | 39123 90223 87698 | —352 57423 62565 38660 | 3365 23558 44944 92201 |
| 3 | 28 | 56420 69644 72647 | —327 66409 34078 96115 | 3087 39177 67838 81176 |
| 4 | 26 | 91934 72660 14606 | —305 67932 52372 55632 | 2847 66675 60585 46993 |
| 5 | 25 | 43392 06973 43951 | —286 18711 08145 94301 | 2639 44850 29345 98016 |
| 6 | 24 | 08834 52245 11906 | —268 82664 29542 42620 | 2457 42419 92821 13801 |
| 7 | 22 | 86574 23040 60383 | —253 29651 81728 91375 | 2297 30842 97973 29896 |
| 8 | 21 | 75154 69000 54062 | —239 34433 91008 81560 | 2155 62934 42005 17041 |
| 9 | 20 | 73317 29715 23831 | —226 75815 75575 99577 | 2029 56063 89891 73328 |
| 10 | 19 | 79972 70926 05746 | —215 35944 33752 56596 | 1916 78962 32550 03561 |
| 11 | 18 | 94176 37052 27031 | —204 99731 35438 16715 | 1815 41360 80255 85656 |
| 12 | 18 | 15107 62688 19118 | —195 54379 90754 84640 | 1723 85846 81017 53841 |
| 13 | 17 | 42051 92668 56127 | —186 88996 38321 84405 | 1640 81452 71891 72256 |
| 14 | 16 | 74385 66596 54306 | —178 94272 10661 53772 | 1565 18596 20814 16713 |
| 15 | 16 | 11563 29404 52591 | —171 62222 01945 25191 | 1496 05075 40896 91656 |
| 16 | 15 | 53106 34609 55406 | —164 85969 89260 27560 | 1432 62887 41911 28561 |
| 17 | 14 | 98594 11468 84903 | —158 59571 48042 70705 | 1374 25690 53349 67536 |
| 18 | 14 | 47655 71272 89842 | —152 77868 60100 96900 | 1320 36770 88258 25321 |
| 19 | 13 | 99963 31570 21031 | —147 36368 43179 14467 | 1270 47405 49671 94648 |
| 20 | 13 | 55226 40235 37486 | —142 31143 38305 64336 | 1224 15538 03962 82801 |

| ν | k | 11 | 12 | 13 |
|-------|-----|----------------------|------------------------|------------------------|
| 21 | | 13 13186 84006 82031 | —137 58747 78869 91405 | 1181 04702 13807 50016 |
| 22 | | 12 73614 68468 88738 | —133 16148 36697 61820 | 1140 83141 62728 09481 |

| ν | k | 14 | 15 |
|-------|-----|--------------------------|---------------------------|
| 1 | | —29392 25715 93291 24500 | 1 91592 19782 01045 92896 |
| 2 | | —26351 24019 95852 20594 | 1 68281 97458 02632 76208 |
| 3 | | —23819 53603 82225 61468 | 1 49525 84686 47660 32992 |
| 4 | | —21691 04434 43400 17024 | 1 34220 27760 20736 49300 |
| 5 | | —19884 46885 39012 14916 | 1 21562 11070 99276 42816 |
| 6 | | —18337 16617 28815 22190 | 1 10961 45794 21445 84256 |
| 7 | | —17000 55235 99928 95724 | 1 01980 58845 94834 47328 |
| 8 | | —15836 67661 49700 68668 | 94291 04205 96731 68052 |
| 9 | | —14815 66561 76716 45044 | 87643 46442 03889 12000 |
| 10 | | —13913 81513 60241 69386 | 81846 30361 91920 23536 |
| 11 | | —13112 16168 02927 62780 | 76750 67649 62133 26816 |
| 12 | | —12395 40975 13531 58904 | 72239 53796 31958 10548 |
| 13 | | —11751 12251 51149 65668 | 68219 86228 29391 63712 |
| 14 | | —11169 10789 94343 71014 | 64616 94438 73525 23200 |
| 15 | | —10640 95005 72288 30156 | 61370 20412 10012 65056 |
| 16 | | —10159 64938 15161 48020 | 58430 06487 51753 49076 |
| 17 | | —9719 34397 78797 56884 | 55755 60735 54778 50368 |
| 18 | | —9315 09260 97093 49218 | 53312 78800 46654 31472 |
| 19 | | —8942 70432 41975 06684 | 51073 07281 96810 90400 |
| 20 | | —8598 60376 06485 48976 | 49012 37976 64627 37876 |
| 21 | | —8279 72391 95784 54660 | 47110 25266 82861 69536 |
| 22 | | —7983 42021 05723 96414 | 45349 21034 68409 96288 |

| ν | k | 16 | 17 |
|-------|-----|-----------------------------|----------------------------|
| 1 | | —10 13157 06234 16330 39600 | 42 91556 65318 38127 73376 |
| 2 | | —8 68185 31100 12110 80080 | 35 68343 09352 30236 52816 |
| 3 | | —7 56171 71956 74395 33520 | 30 36198 55682 31272 12416 |
| 4 | | —6 67868 14975 34430 35296 | 26 33241 11651 16736 71792 |
| 5 | | —5 96938 70661 20994 18416 | 23 20020 18246 49487 20896 |
| 6 | | —5 38980 51250 88701 26960 | 20 70830 64047 22250 51216 |
| 7 | | —4 90885 14094 53535 01200 | 18 68517 72890 79713 04576 |
| 8 | | —4 50420 92368 43522 88080 | 17 01346 32605 06275 08336 |
| 9 | | —4 15958 08037 82374 24496 | 15 61090 99212 13089 92512 |
| 10 | | —3 86286 22396 98173 97136 | 14 41851 47582 72718 41616 |
| 11 | | —3 60491 81870 33910 37520 | 13 39303 70978 81444 00256 |
| 12 | | —3 37874 80460 33879 05920 | 12 50216 06028 47909 41936 |
| 13 | | —3 17891 05048 35285 04240 | 11 72130 05923 95752 57856 |
| 14 | | —3 00112 03873 88023 07696 | 11 03145 17318 22135 05232 |
| 15 | | —2 84196 19834 67186 56656 | 10 41770 74032 46659 63136 |

| <i>v</i> | <i>k</i> | 16 | 17 |
|----------|----------|-------------------------|-----------------------------|
| 16 | — 2 | 69868 22215 89320 47280 | 9 86822 16098 25330 56496 |
| 17 | — 2 | 56903 93511 86141 76240 | 9 37346 81850 90048 16896 |
| 18 | — 2 | 45119 07607 77598 66000 | 8 92570 34612 57682 24976 |
| 19 | — 2 | 34360 87658 77969 14896 | 8 51857 06035 73044 29952 |
| 20 | — 2 | 24501 66483 24828 74976 | 8 14680 41887 57883 13456 |
| 21 | — 2 | 15433 95412 77280 72240 | 7 80600 67884 31562 95936 |
| 22 | — 2 | 07066 63253 12357 14160 | 7 49247 79983 82601 01456 |
| <i>v</i> | <i>k</i> | 18 | 19 |
| 1 | — 142 | 97219 70186 81370 03200 | 364 82312 83243 47131 95776 |
| 2 | — 114 | 52090 16800 59024 70944 | 278 75352 19829 10452 57088 |
| 3 | — 94 | 80180 68458 25681 39328 | 223 38990 48055 51457 80992 |
| 4 | — 80 | 55811 88900 52550 89408 | 185 56284 97828 18298 41344 |
| 5 | — 69 | 88675 44272 72061 72096 | 158 36155 32066 68193 38496 |
| 6 | — 61 | 63792 51221 85994 69280 | 137 96777 46099 12533 83296 |
| 7 | — 55 | 09152 25269 61506 44544 | 122 15466 76542 97956 87168 |
| 8 | — 49 | 78005 74664 69297 09888 | 109 55486 56112 74125 19872 |
| 9 | — 45 | 38957 42596 01688 43968 | 99 28915 70066 13306 03264 |
| 10 | — 41 | 70261 59677 92313 60416 | 90 76916 56651 05365 94816 |
| 11 | — 38 | 56435 54738 23613 73760 | 83 58741 51309 68750 87616 |
| 12 | — 35 | 86183 63163 44584 73344 | 77 45328 95468 93485 18848 |
| 13 | — 33 | 51085 58493 74714 24448 | 72 15419 93011 57216 81152 |
| 14 | — 31 | 44743 93050 09607 03328 | 67 53117 50728 94003 52384 |
| 15 | — 29 | 62215 25018 19603 29536 | 63 46303 78157 34452 55936 |
| 16 | — 27 | 99621 77933 14208 72640 | 59 85584 06500 01162 36736 |
| 17 | — 26 | 53880 44039 88678 89344 | 56 63565 04752 20960 80128 |
| 18 | — 25 | 22510 12478 81217 27008 | 53 74350 28811 66591 12832 |
| 19 | — 24 | 03492 20826 31656 07488 | 51 13180 57730 27036 56704 |
| 20 | — 22 | 95167 97753 61835 07456 | 48 76172 98357 91800 49856 |
| 21 | — 21 | 96162 09934 56675 61920 | 46 60128 44804 38313 98656 |
| 22 | — 21 | 05324 75861 02275 44544 | 44 62387 84487 78442 19008 |
| <i>v</i> | <i>k</i> | 20 | 21 |
| 1 | — 685 | 22997 92348 27397 88800 | 888 52900 36245 87709 44000 |
| 2 | — 492 | 54606 35933 53624 70400 | 588 66685 56727 07857 92000 |
| 3 | — 379 | 88339 31425 20156 41600 | 434 10880 34318 54638 08000 |
| 4 | — 307 | 80170 84279 01336 19200 | 342 55214 91478 09762 56000 |
| 5 | — 258 | 24534 15258 33562 92096 | 282 53227 52302 47292 72320 |
| 6 | — 222 | 24645 98996 99326 84800 | 240 28022 34612 19146 24000 |
| 7 | — 194 | 97043 39790 88831 74400 | 208 96594 50057 93285 12000 |
| 8 | — 173 | 61418 26689 81528 25600 | 184 84552 15075 62881 28000 |
| 9 | — 156 | 45069 44996 54775 55200 | 165 70273 23625 22127 36000 |
| 10 | — 142 | 36145 09081 20870 36416 | 150 14447 37782 06403 68640 |

| $v \backslash k$ | 20 | 21 |
|------------------|------------------------------|-----------------------------|
| 11 | —130 59154 11185 18270 20800 | 137 25203 05557 14135 04000 |
| 12 | —120 61363 29964 52707 58400 | 126 39538 69019 82616 32000 |
| 13 | —112 04851 66441 30711 29600 | 117 12826 64857 15860 48000 |
| 14 | —104 61665 65386 58480 51200 | 109 12579 13181 96380 16000 |
| 15 | — 98 10754 03231 57741 45536 | 102 14587 80120 48985 49760 |
| 16 | — 92 35965 71591 55931 96800 | 96 00446 83129 20195 84000 |
| 17 | — 87 24704 94804 18196 22400 | 90 55914 16923 05771 52000 |
| 18 | — 82 67005 56981 75889 53600 | 85 69798 02922 49095 68000 |
| 19 | — 78 54879 78716 60835 07200 | 81 33182 32978 59240 96000 |
| 20 | — 74 81851 08433 38519 87456 | 77 38876 59926 44709 83680 |
| 21 | — 71 42613 34699 69936 12800 | 73 81017 99900 46448 64000 |
| 22 | — 68 32778 16860 48801 66400 | 70 54778 57663 41470 72000 |

| $v \backslash k$ | 22 | 23 |
|------------------|------------------------------|-----------------------------|
| 1 | —706 86949 91360 80896 00000 | 258 52016 73888 49766 40000 |
| 2 | —418 06479 14152 52889 60000 | 129 26008 36944 24883 20000 |
| 3 | —293 07209 24651 04691 20000 | 86 17338 91296 16588 80000 |
| 4 | —225 18990 61694 29555 20000 | 64 63004 18472 12441 60000 |
| 5 | —182 73712 66904 32141 82400 | 51 70403 34777 69953 28000 |
| 6 | —153 71716 19933 53728 00000 | 43 08669 45648 08294 40000 |
| 7 | —132 63688 77201 15609 60000 | 36 93145 24841 21395 20000 |
| 8 | —116 63433 07001 65555 20000 | 32 31502 09236 06220 80000 |
| 9 | —104 07391 14979 69459 20000 | 28 72446 30432 05529 60000 |
| 10 | — 93 95376 49786 04568 57600 | 25 85201 67388 84976 64000 |
| 11 | — 85 62616 66478 13120 00000 | 23 50183 33989 86342 40000 |
| 12 | — 78 65385 99368 77209 60000 | 21 54334 72824 04147 20000 |
| 13 | — 72 73103 84463 62419 20000 | 19 88616 67222 19212 80000 |
| 14 | — 67 63742 43059 19283 20000 | 18 46572 62420 60697 60000 |
| 15 | — 63 21033 25799 33822 97600 | 17 23467 78259 23317 76000 |
| 16 | — 59 32700 97539 45472 00000 | 16 15751 04618 03110 40000 |
| 17 | — 55 89309 39914 70489 60000 | 15 20706 86699 32339 20000 |
| 18 | — 52 83485 75001 84883 20000 | 14 36223 15216 02764 80000 |
| 19 | — 50 09386 01013 43027 20000 | 13 60632 45994 13145 60000 |
| 20 | — 47 62318 29077 74408 70400 | 12 92600 83694 42488 32000 |
| 21 | — 45 38472 29696 93184 00000 | 12 31048 41613 73798 40000 |
| 22 | — 43 34721 59011 56249 60000 | 11 75091 66994 93171 20000 |

TABLEAUX \mathcal{S}_{25}^k

| $v \backslash k$ | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|------------------|---|------|-------|-----------|------------|----------------|----------------|
| 1 | 1 | —299 | 42251 | —37 52749 | 2350 57746 | —1 10417 84754 | 40 38667 29046 |

| $\backslash \begin{matrix} k \\ v \end{matrix}$ | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|------|-------|-----------|------------|----------------|----------------|
| 2 | 1 | -298 | 41954 | -37 11092 | 2313 88311 | -1 08140 65878 | 39 32803 82044 |
| 3 | 1 | -297 | 41659 | -36 70023 | 2278 00426 | -1 05934 41222 | 38 31281 90134 |
| 4 | 1 | -296 | 41366 | -36 29536 | 2242 92351 | -1 03796 73096 | 37 33898 21416 |
| 5 | 1 | -295 | 41075 | -35 89625 | 2208 62370 | -1 01725 30650 | 36 40458 60550 |
| 6 | 1 | -294 | 40786 | -35 50284 | 2175 08791 | - 99717 89754 | 35 50777 75276 |
| 7 | 1 | -293 | 40499 | -35 11507 | 2142 29946 | - 97772 32878 | 34 64678 83654 |
| 8 | 1 | -292 | 40214 | -34 73288 | 2110 24191 | - 95886 48972 | 33 81993 22024 |
| 9 | 1 | -291 | 39931 | -34 35621 | 2078 89906 | - 94058 33346 | 33 02560 13686 |
| 10 | 1 | -290 | 39650 | -33 98500 | 2048 25495 | - 92285 87550 | 32 26226 38300 |
| 11 | 1 | -289 | 39371 | -33 61919 | 2018 29386 | - 90567 19254 | 31 52846 02006 |
| 12 | 1 | -288 | 39094 | -33 25872 | 1989 00031 | - 88900 42128 | 30 82280 08264 |
| 13 | 1 | -287 | 38819 | -32 90353 | 1960 35906 | - 87283 75722 | 30 14396 29414 |
| 14 | 1 | -286 | 38546 | -32 55356 | 1932 35511 | - 85715 45346 | 29 49068 78956 |
| 15 | 1 | -285 | 38275 | -32 20875 | 1904 97370 | - 84193 81950 | 28 86177 84550 |
| 16 | 1 | -284 | 38006 | -31 86904 | 1878 20031 | - 82717 22004 | 28 25609 61736 |
| 17 | 1 | -283 | 37739 | -31 53437 | 1852 02066 | - 81284 07378 | 27 67255 88374 |
| 18 | 1 | -282 | 37474 | -31 20468 | 1826 42071 | - 79892 85222 | 27 11013 79804 |
| 19 | 1 | -281 | 37211 | -30 87991 | 1801 38666 | - 78542 07846 | 26 56785 64726 |
| 20 | 1 | -280 | 36950 | -30 56000 | 1776 90495 | - 77230 32600 | 26 04478 61800 |
| 21 | 1 | -279 | 36691 | -30 24489 | 1752 96226 | - 75956 21754 | 25 54004 56966 |
| 22 | 1 | -278 | 36434 | -29 93452 | 1729 54551 | - 74718 42378 | 25 05279 81484 |
| 23 | 1 | -277 | 36179 | -29 62883 | 1706 64186 | - 73515 66222 | 24 58224 90694 |

| $\backslash \begin{matrix} k \\ v \end{matrix}$ | 8 | 9 | 10 |
|---|-------------------|-------------------|----------------------|
| 1 | -1178 73582 50954 | 27909 93216 16181 | -5 42148 70002 48319 |
| 2 | -1140 46642 15912 | 26807 73514 35311 | -5 16443 16189 93878 |
| 3 | -1104 18404 09598 | 25776 11586 38341 | -4 92730 28459 49477 |
| 4 | -1069 76656 94336 | 24809 60170 89791 | -4 70820 22535 05336 |
| 5 | -1037 09956 77250 | 23903 17014 80885 | -4 50542 78144 60075 |
| 6 | -1006 07583 28344 | 23052 21298 97071 | -4 31745 35424 82074 |
| 7 | - 976 59497 94422 | 22252 50313 06181 | -4 14291 11027 21233 |
| 8 | - 948 56304 03808 | 21500 16366 36671 | -3 98057 32287 71132 |
| 9 | - 921 89208 56826 | 20791 63921 55701 | -3 82933 87924 63191 |
| 10 | - 896 49985 97000 | 20123 66938 97135 | -3 68821 93828 93150 |
| 11 | - 872 30943 57934 | 19493 26419 29861 | -3 55632 72606 36029 |
| 12 | - 849 24888 80832 | 18897 68132 97151 | -3 43286 45622 98688 |
| 13 | - 827 25097 97618 | 18334 40524 98101 | -3 31711 36393 89187 |
| 14 | - 806 25286 74616 | 17801 12784 22511 | -3 20842 84239 49346 |
| 15 | - 786 19582 11750 | 17295 73066 90885 | -3 10622 67215 01225 |
| 16 | - 767 02495 92224 | 16816 26863 91551 | -3 00998 33395 99684 |
| 17 | - 748 68899 77642 | 16360 95502 47221 | -2 91922 39676 61743 |
| 18 | - 731 14001 43528 | 15928 14772 83631 | -2 83351 97307 59142 |
| 19 | - 714 33322 50206 | 15516 33671 13221 | -2 75248 23467 13301 |
| 20 | - 698 22677 44000 | 15124 13249 87135 | -2 67575 98221 21800 |

| $v \backslash k$ | 8 | 9 | 10 |
|------------------|-------------------|-------------------|----------------------|
| 21 | — 682 78153 83714 | 14750 25568 09141 | —2 60303 26288 72539 |
| 22 | — 667 96093 87352 | 14393 52733 45391 | —2 53401 03082 65898 |
| 23 | — 653 73076 94038 | 14052 86029 04261 | —2 46842 84550 66497 |

| $v \backslash k$ | 11 | 12 | 13 |
|------------------|-----------------------|-------------------------|-------------------------|
| 1 | 87 02542 43759 25231 | —1159 17464 46942 89769 | 12831 77055 55448 17096 |
| 2 | 82 11804 81381 85794 | —1081 96397 27938 43412 | 11827 01725 46514 20041 |
| 3 | 77 66500 28383 25119 | —1013 20506 05552 39643 | 10951 33001 85733 87936 |
| 4 | 73 61410 23621 52206 | — 951 74365 96216 06176 | 10183 97056 17526 82161 |
| 5 | 69 91977 23038 73175 | — 896 60120 75508 49125 | 9507 93916 24848 61240 |
| 6 | 66 54219 01212 81106 | — 846 94692 83425 28364 | 8909 26363 01839 36681 |
| 7 | 63 44653 36571 24919 | — 802 07433 34703 40567 | 8376 42486 59467 22896 |
| 8 | 60 60232 55460 04494 | — 761 38146 47021 79048 | 7899 89348 26216 74481 |
| 9 | 57 98286 22440 04831 | — 724 35430 88741 71521 | 7471 75642 03715 63176 |
| 10 | 55 56471 75472 42050 | — 690 55289 35977 94500 | 7085 41626 42611 61865 |
| 11 | 53 32731 15091 77231 | — 659 59964 24692 65459 | 6735 34913 30771 86816 |
| 12 | 51 25253 66285 89294 | — 631 16962 95271 43472 | 6416 90964 59133 85201 |
| 13 | 49 32443 40641 14119 | — 604 98242 62367 31453 | 6126 17365 91615 97976 |
| 14 | 47 52891 34408 82706 | — 580 79528 08978 57116 | 5859 81126 76691 07241 |
| 15 | 45 85351 05536 55175 | — 558 39741 07653 87375 | 5614 98403 87582 96240 |
| 16 | 44 28717 79425 78606 | — 537 60522 19889 57304 | 5389 26164 84157 90001 |
| 17 | 42 82010 39259 23919 | — 518 25830 23295 08377 | 5180 55406 06374 64456 |
| 18 | 41 44355 62225 08994 | — 500 21605 70650 53108 | 4987 05617 30681 50921 |
| 19 | 40 14974 67886 20831 | — 483 35488 00864 19211 | 4807 20247 85971 41856 |
| 20 | 38 93171 49337 37550 | — 467 56577 03954 64000 | 4639 62979 23298 26865 |
| 21 | 37 78322 61698 -0231 | — 452 75231 95033 60149 | 4483 14649 06685 43736 |
| 22 | 36 69868 45943 3794 | — 438 82900 79950 91532 | 4336 70702 43470 93161 |
| 23 | 35 67305 69096 2 4119 | — 425 71976 01484 00263 | 4199 39071 68259 00816 |

| $v \backslash k$ | 4 | 14 | 15 |
|------------------|----------------------------|---------------------------|----|
| 1 | —1 17939 15818 12110 56404 | 8 97006 36964 40035 80896 | |
| 2 | —1 07116 89422 74530 33418 | 8 00711 73937 03085 70464 | |
| 3 | — 97916 93868 10357 09692 | 7 21194 71178 21075 08224 | |
| 4 | — 90035 04648 97451 44856 | 6 54805 34186 62340 57876 | |
| 5 | — 83231 23292 43315 67300 | 5 98789 36320 35568 00800 | |
| 6 | — 77315 34695 56522 53414 | 5 51053 44609 13011 16816 | |
| 7 | — 72135 95467 51288 13228 | 5 09993 84509 93129 44704 | |
| 8 | — 67571 78087 57824 77652 | 4 74371 28081 89548 16084 | |
| 9 | — 63525 12095 34118 04916 | 4 43219 43924 45083 93056 | |
| 10 | — 59916 76609 41442 54850 | 4 15777 86688 37720 88800 | |
| 11 | — 56682 08827 29068 18524 | 3 91442 55682 32396 33536 | |
| 12 | — 53768 01298 57952 51088 | 3 69729 37199 56716 24244 | |

| ν | k | 14 | 15 |
|-------|-------|-------------------------|------------------------------|
| 13 | — | 51130 67116 76550 99812 | 3 50246 80264 56983 39744 |
| 14 | — | 48733 57098 93883 72126 | 3 32675 53397 37774 27536 |
| 15 | — | 46546 16815 53814 29900 | 3 16753 00549 44931 88800 |
| 16 | — | 44542 74236 21032 33484 | 3 02261 65003 15629 01556 |
| 17 | — | 42701 50970 59189 77748 | 2 89019 86282 45920 15584 |
| 18 | — | 41003 91762 15291 56922 | 2 76875 01063 76898 12704 |
| 19 | — | 39434 08164 34101 78236 | 2 65697 97660 04212 50816 |
| 20 | — | 37978 33289 01593 36200 | 2 55378 87002 20279 13300 |
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| 23 | — | 34184 94224 97601 54732 | 2 28691 85608 07310 78464 |
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| 8 | —27 | 13405 93311 65083 21328 | 125 11448 49447 50824 22256 |
| 9 | —25 | 19401 22646 75713 12496 | 115 44084 92119 90071 80416 |
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| 20 | —14 | 00798 77922 75885 84000 | 62 02720 37485 53773 12880 |
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| 22 | —12 | 95447 68085 54196 25072 | 57 18846 98058 79172 41296 |
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| 4 | —712 | 53598 68528 54232 12416 | 2118 95770 31440 79519 87136 |
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| 9 | — 420 05141 23687 15846 64256 | 1188 63893 92370 53828 58496 |
| 10 | — 387 74697 01663 37555 59200 | 1091 63194 88921 20892 44800 |
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| 14 | — 296 20228 08687 40848 28896 | 822 26971 83931 24572 32256 |
| 15 | — 279 64713 01797 39434 44800 | 774 39469 78594 04931 64800 |
| 16 | — 264 83353 64291 22142 28544 | 731 76506 76895 42171 80096 |
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| 19 | — 228 48061 65683 84719 26336 | 627 96993 57561 86782 36416 |
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| 21 | — 209 30578 39158 14186 64384 | 573 68018 83233 98528 84736 |
| 22 | — 200 87271 95472 84699 79488 | 549 90182 05152 33052 88064 |
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| $v \backslash k$ | 20 | 21 |
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| <i>v</i> | <i>k</i> | 22 | 23 |
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| 4 | — 8446 44148 57168 63856 64000 | 5469 18778 99135 21766 40000 | |
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| 9 | — 4080 93948 81985 00515 84000 | 2526 49833 89944 72550 40000 | |
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| <i>v</i> | <i>k</i> | 24 |
|----------|-------------------------------|----|
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| 19 | — 326 55179 03859 15494 40000 | |
| 20 | — 310 22420 08666 19719 68000 | |

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|--------------|-------------------------------|----|
| v | | |
| 21 | — 295 45161 98729 71161 60000 | |
| 22 | — 282 02200 07878 36108 80000 | |
| 23 | — 269 76017 46666 25843 20000 | |

TABLEAUX ${}^v S_{26}^k$

| \backslash | k | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|--------------|-----|------|-------|-----------|------------|----------------|----------------|---|
| v | | | | | | | | |
| 1 | 1 | —324 | 49726 | —48 09024 | 3288 76471 | —1 69182 28404 | 67 99113 47896 | |
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| 15 | 1 | —310 | 45400 | —41 77750 | 2710 19245 | —1 31818 16200 | 49 91023 33300 | |
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| 23 | 1 | —302 | 43104 | —38 67358 | 2447 36261 | —1 16181 70872 | 42 96116 46244 | |
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| \backslash | k | 8 | 9 | 10 |
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| v | | | | |
| 1 | —2188 40264 77104 | 57378 32778 90031 | —12 39897 00406 52844 | |
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| 5 | —1947 21421 91000 | 49830 65934 12135 | —10 48122 03514 82200 | |
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| <i>v</i> | <i>k</i> | 8 | 9 | 10 |
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| <i>v</i> | <i>k</i> | 11 | 12 | 13 |
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| 6 | | 174 47852 86833 32956 | —2510 50168 13745 56014 | 30082 93683 87471 45781 |
| 7 | | 167 01931 12251 55744 | —2388 23767 48984 63542 | 28428 28320 27052 37071 |
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| 9 | | 153 71633 20555 84606 | —2173 92586 49742 92296 | 25580 61414 22258 51201 |
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| $v \backslash k$ | 14 | 15 |
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| 10 | —2 37052 17270 06733 01475 | 19 13697 01923 73784 60050 |
| 11 | —2 25065 81659 98364 88924 | 18 08494 76364 59100 96636 |
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| 14 | —1 95228 85268 11160 53151 | 15 51014 80870 84867 30686 |
| 15 | —1 86920 76912 43388 35900 | 14 80407 20937 90289 36300 |
| 16 | —1 79274 28357 24979 83509 | 14 15830 20908 41437 38656 |
| 17 | —1 72215 36122 18555 89148 | 13 56557 60547 25664 59284 |
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| 19 | —1 59614 14360 83387 24636 | 12 51550 01768 56757 06716 |
| 20 | —1 53969 07769 84050 07825 | 12 04837 19227 60113 18300 |
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| 24 | —1 34841 31279 37634 43021 | 10 48027 23919 37888 42296 |

| $v \backslash k$ | 16 | 17 |
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| 2 | —249 24746 18518 52439 70672 | 1470 78608 08074 03323 01536 |
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| 9 | —135 99887 20758 02811 38896 | 745 29115 58288 82899 92816 |
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| 11 | —119 88571 97519 35017 19504 | 650 53808 72398 23013 28336 |
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| 14 | —101 67807 05337 96985 52896 | 545 78801 70379 50405 02336 |
| 15 | —96 75906 23461 30787 38000 | 517 89506 93191 46391 72880 |
| 16 | —92 28731 02995 22129 64004 | 492 68403 97187 54128 18816 |
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| <i>v</i> | <i>k</i> | 16 | 17 |
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| 20 | — | 77 85270 52977 82864 16500 | 412 22689 85554 50919 12880 |
| 21 | — | 74 91670 68662 08231 75504 | 396 03016 03207 35335 57296 |
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| 23 | — | 69 65759 89182 96090 06928 | 367 15622 93902 98130 83536 |
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| <i>v</i> | <i>k</i> | 18 | 19 |
|----------|----------|------------------------------|-------------------------------|
| 1 | — | 8324 77733 11285 47866 58624 | 33119 80070 13426 10903 78176 |
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| 3 | — | 6119 56941 70937 95216 59712 | 23085 86978 11897 73120 57664 |
| 4 | — | 5378 05516 45014 30861 84816 | 19932 35737 44654 35322 97536 |
| 5 | — | 4788 32888 35076 93445 45600 | 17502 93361 49326 91543 08800 |
| 6 | — | 4310 22801 40067 97031 54864 | 15583 20994 84303 76581 07616 |
| 7 | — | 3915 97605 53639 88452 88768 | 14032 74564 49232 39600 15424 |
| 8 | — | 3585 96529 93373 90504 66352 | 12756 85563 77720 34733 05984 |
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| 10 | — | 3065 92718 29420 59898 81200 | 10785 30620 30505 59782 24800 |
| 11 | — | 2857 77408 54903 60594 98304 | 10009 06309 20771 92225 55456 |
| 12 | — | 2675 71653 34762 19581 80208 | 9335 97963 07565 23788 74304 |
| 13 | — | 2515 20088 77779 37616 03392 | 8746 96649 13579 69761 92704 |
| 14 | — | 2372 66080 65971 08070 77296 | 8227 32674 01116 45779 54656 |
| 15 | — | 2245 26700 53412 17865 16800 | 7765 57295 23528 90792 84800 |
| 16 | — | 2130 74840 96283 47690 08944 | 7352 60347 84175 95728 93696 |
| 17 | — | 2027 26235 61850 86096 61248 | 6981 11797 73246 95127 95584 |
| 18 | — | 1933 29902 73160 66843 50832 | 6645 19554 07819 55587 21824 |
| 19 | — | 1847 61014 11844 92316 12736 | 6339 98534 99658 04763 94816 |
| 20 | — | 1769 15507 40193 95358 52400 | 6061 47655 20832 51599 88800 |
| 21 | — | 1697 05967 83929 71694 06784 | 5806 32478 62187 53194 94336 |
| 22 | — | 1630 58446 46942 64010 11888 | 5571 71980 91973 50547 75264 |
| 23 | — | 1569 09976 91515 56731 88672 | 5355 28334 19853 53936 97344 |
| 24 | — | 1512 06619 24318 80951 00976 | 5154 98941 41060 15946 13376 |

| <i>v</i> | <i>k</i> | 20 | 21 |
|----------|----------|-------------------------------|---------------------------------|
| 1 | —1 | 04344 88147 83366 58883 01824 | 2 53358 67498 07394 09380 60800 |
| 2 | — | 82864 00964 87913 80626 34112 | 1 91975 53716 14933 07010 94400 |
| 3 | — | 68207 07283 61099 50425 07008 | 1 53082 33795 07462 16988 41600 |
| 4 | — | 57735 25268 18175 28494 89856 | 1 26762 54573 18059 54284 03200 |
| 5 | — | 49950 01410 50158 12071 36000 | 1 07953 48593 39970 07906 82624 |
| 6 | — | 43965 42248 90970 10300 34304 | 93911 02152 44940 06461 56800 |
| 7 | — | 39235 46266 52165 92585 72032 | 83055 31780 25599 20163 58400 |
| 8 | — | 35409 83707 75029 91922 32128 | 74424 85983 90521 32885 05600 |
| 9 | — | 32255 36394 35847 19834 95936 | 67405 28096 68135 89748 99200 |

| $v \backslash k$ | 20 | 21 |
|------------------|---------------------------------|-------------------------------|
| 10 | — 29611 62014 91736 71964 32000 | 61587 35496 73393 48620 42624 |
| 11 | — 27364 98816 68301 55305 69984 | 56688 68662 39443 59900 92800 |
| 12 | — 25432 92661 06009 84321 88352 | 52508 43713 18642 56401 02400 |
| 13 | — 23754 11779 20256 62881 74848 | 48900 02516 27424 50800 89600 |
| 14 | — 22282 10781 81162 28873 14816 | 45754 04700 54488 64039 55200 |
| 15 | — 20981 08789 43859 07894 08000 | 42987 23804 32874 49852 42624 |
| 16 | — 19823 02652 49977 38123 80864 | 40535 13205 91122 58282 68800 |
| 17 | — 18785 67656 51594 52611 55072 | 38347 05485 13653 73867 26400 |
| 18 | — 17851 16244 56040 69216 87168 | 36382 63243 82028 22359 93600 |
| 19 | — 17004 96053 03289 79271 78496 | 34609 30638 28254 62099 71200 |
| 20 | — 16235 15113 80142 37789 04000 | 33000 53369 87913 12482 82624 |
| 21 | — 15531 86166 90854 52692 98944 | 31534 46140 82815 61710 84800 |
| 22 | — 14886 84637 73375 57736 24192 | 30192 93615 76497 98066 30400 |
| 23 | — 14293 16531 40161 29236 41088 | 28960 75423 67050 95826 17600 |
| 24 | — 13744 93624 11348 87079 58976 | 27825 08667 18387 78353 47200 |

| $v \backslash k$ | 22 | 23 |
|------------------|-----------------------------------|---------------------------------|
| 1 | — 4 55382 77821 76373 17391 36000 | 5 68012 52779 98094 39334 40000 |
| 2 | — 3 24790 37887 53901 12750 08000 | 3 73814 54826 66665 31225 60000 |
| 3 | — 2 49494 43934 61380 75806 72000 | 2 74911 98797 90325 29305 60000 |
| 4 | — 2 01691 27027 11529 09635 84000 | 2 16630 22493 28351 18182 40000 |
| 5 | — 1 68974 02352 83916 87237 83680 | 1 78525 18837 54883 20536 57600 |
| 6 | — 1 45275 32405 14126 88002 56000 | 1 51743 36170 89706 28710 40000 |
| 7 | — 1 27354 22858 04572 85626 88000 | 1 31915 70595 42457 57337 60000 |
| 8 | — 1 13342 57448 59596 63691 52000 | 1 16654 71012 97694 47193 60000 |
| 9 | — 1 02093 92449 70544 19031 04000 | 1 04549 98554 39569 85446 40000 |
| 10 | — 92867 90352 49832 40567 70560 | 94716 27076 76143 51048 70400 |
| 11 | — 85165 90033 49887 67861 76000 | 86570 40233 25703 10246 40000 |
| 12 | — 78640 20761 60056 49959 68000 | 79712 81462 53789 57209 60000 |
| 13 | — 73041 12608 27248 66360 32000 | 73860 66694 20234 94041 60000 |
| 14 | — 68184 79512 20926 30218 24000 | 68808 17430 81499 33670 40000 |
| 15 | — 63932 88254 90649 78985 57440 | 64402 06778 14720 71942 14400 |
| 16 | — 60179 34025 25805 94248 96000 | 60525 86197 61572 48742 40000 |
| 17 | — 56841 52072 51653 71028 48000 | 57089 45368 96354 49241 60000 |
| 18 | — 53854 06931 07259 24293 12000 | 54022 05842 43801 19449 60000 |
| 19 | — 51164 63192 46929 46877 44000 | 51267 29944 82807 66054 40000 |
| 20 | — 48730 77922 25504 77115 44320 | 48779 72156 64372 14416 89600 |
| 21 | — 46517 76362 44639 30844 16000 | 46522 26990 37042 08998 40000 |
| 22 | — 44496 85773 00811 69313 28000 | 44464 43595 56610 31833 60000 |
| 23 | — 42644 10575 41595 22769 92000 | 42580 87367 17777 33017 60000 |
| 24 | — 40939 37307 42460 46288 64000 | 40850 35223 55416 45798 40000 |

Seconde partie

| <i>v</i> | <i>k</i> | 24 | 25 |
|----------|----------|-------------------------------|---------------------------------|
| 1 | —4 | 36789 18768 37021 76153 60000 | 1 55112 10043 33098 59840 00000 |
| 2 | —2 | 57172 61895 01785 53036 80000 | 77556 05021 66549 29920 00000 |
| 3 | —1 | 80065 75154 64140 27571 20000 | 51704 03347 77699 53280 00000 |
| 4 | —1 | 38280 81575 21711 42758 40000 | 38778 02510 83274 64960 00000 |
| 5 | —1 | 12175 77360 60700 12805 12000 | 31022 42008 66619 71968 00000 |
| 6 | — | 94341 54522 96878 43225 60000 | 25852 01673 88849 76640 00000 |
| 7 | — | 81391 77380 37913 14124 80000 | 22158 87149 04728 37120 00000 |
| 8 | — | 71564 03444 53560 37939 20000 | 19389 01255 41637 32480 00000 |
| 9 | — | 63851 84558 78987 46470 40000 | 17234 67782 59233 17760 00000 |
| 10 | — | 57639 00780 73681 05000 96000 | 15511 21004 33309 85984 00000 |
| 11 | — | 52527 28982 52382 02777 60000 | 14101 10003 93918 05440 00000 |
| 12 | — | 48247 93997 89641 28972 80000 | 12926 00836 94424 88320 00000 |
| 13 | — | 44613 04523 72061 92947 20000 | 11931 70003 33315 27680 00000 |
| 14 | — | 41487 27516 94125 44102 40000 | 11079 43574 52364 18560 00000 |
| 15 | — | 38770 69876 14305 36355 84000 | 10340 80669 55539 90656 00000 |
| 16 | — | 36387 92386 49956 35609 60000 | 9694 50627 70818 66240 00000 |
| 17 | — | 34281 00275 97089 78380 80000 | 9124 24120 19594 03520 00000 |
| 18 | — | 32404 66384 46694 65395 20000 | 8617 33891 29616 58880 00000 |
| 19 | — | 30723 02596 61770 60454 40000 | 8163 79475 96478 87360 00000 |
| 20 | — | 29207 28415 47673 27150 08000 | 7755 60502 16654 92992 00000 |
| 21 | — | 27834 04750 57232 26521 60000 | 7386 29049 68242 79040 00000 |
| 22 | — | 26584 12445 89689 15148 80000 | 7050 55001 96959 02720 00000 |
| 23 | — | 25441 62103 26237 56083 20000 | 6744 00436 66656 46080 00000 |
| 24 | — | 24393 26183 05121 16326 40000 | 6463 00418 47212 44160 00000 |

Izdaje: Matematički institut u Beogradu

Štampa: Beogradski grafički zavod

