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INFORMAL REPORT

C.3 —

Coupled Neutron-Gamma Ray Multigroup
Cross Sections for Nitrogen, Oxygen,
Silicon, Aluminum, Carbon, Iron, and Hydrogen



los alamos
scientific laboratory

of the University of California

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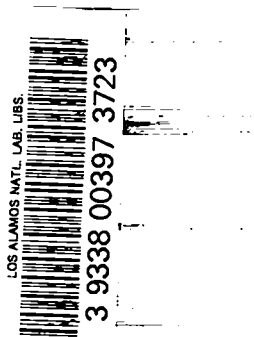


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by

R. J. LaBauve
R. E. Seamon
N. L. Whittemore



COUPLED NEUTRON-GAMMA RAY MULTIGROUP CROSS SECTIONS
FOR NITROGEN, OXYGEN, SILICON, ALUMINUM, CARBON, IRON, AND HYDROGEN
PROCESSED FROM ENDF/B

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R. J. LaBauve, R. E. Seamon, and N. L. Whittemore

ABSTRACT

Coupled 30-neutron by 12-gamma multigroup cross sections for several materials in four tables, namely, P_0 , P_1 , P_2 , and P_3 Legendre components, were produced from ENDF/B, Version III data. The nuclides processed include ^{14}N (ENDF/B MAT = 1133), ^{16}O (ENDF/B MAT = 1134), Si (ENDF/B MAT = 1151), ^{27}Al (ENDF/B MAT = 1135), ^{12}C (ENDF/B MAT = 1165), Fe (ENDF/B MAT = 1122), and ^1H (ENDF/B MAT = 1148).

I. INTRODUCTION

Multigroup cross sections were produced for several nuclides from the ENDF/B data file, Version III.¹ The materials processed include the following:

ENDF/B Material	ENDF/B MAT No.
^{14}N	1133
^{16}O	1134
Si	1151
^{27}Al	1135
^{12}C	1165
Fe	1122
^1H	1148

The cross section multigroup structure consists of thirty neutron and twelve photon groups. Separate tables are provided for each of four Legendre components, P_0 , P_1 , P_2 , and P_3 for each nuclide. The neutron cross sections were produced using the ETOG code,² the photon production cross sections by the LAPHANO code,³ and the photon interaction cross sections by the GAMLEG⁴ code. The group energy boundaries for the neutron groups are shown in Table I and those for the photon groups are in Table II. Output from these three codes was combined using the PROSEC code to produce coupled neutron-photon cross sections in the "FIDO" form of the LASL format.⁵

TABLE I
ENERGY BOUNDARIES FOR THE
NEUTRON 30-GROUP STRUCTURE

Group	E_g (Lower Boundary)	
1	15.0	MeV ↓
2	13.5	
3	12.0	
4	10.0	
5	7.79	
6	6.07	
7	3.68	
8	2.865	
9	2.232	
10	1.738	
11	1.353	
12	0.823	
13	0.50	
14	0.303	
15	0.184	
16	0.0676	
17	0.0248	
18	0.00912	
19	0.00335	
20	0.001235	
21	454.0	eV ↓
22	167.0	
23	61.4	
24	22.6	
25	8.32	
26	3.06	
27	1.13	
28	0.414	
29	0.152	
30	0.000139	

TABLE II
ENERGY BOUNDARIES FOR THE
PHOTON 12-GROUP STRUCTURE

($E_{\max}^{\gamma} = 30 \text{ MeV}$)

Group	E_g (Lower Boundary)	MeV
1	9.0	↓
2	8.0	
3	7.0	
4	6.0	
5	5.0	
6	4.0	
7	3.0	
8	2.0	
9	1.0	
10	0.5	
11	0.1	
12	0.01	

II. CROSS SECTION FORMAT

The positions of the various multigroup terms are represented in the neutron-photon matrix as shown in Fig. 1. Note that group numbers are labeled along the top (30 neutron + 12 gamma = 42 total) and position numbers along the left side (42 transfer locations plus three positions for σ_a , $\nu\sigma_f$, and σ_t). Now take, for example, cross sections for group 1, a neutron group. We see that the averaged-absorption cross section for group 1, $(\sigma_a)_1$, is in position (1,1); the averaged value for nu-fission for group 1, $(\nu\sigma_f)_1$, is in position (2,1); the averaged value of the transport cross for group 1 $(\sigma_t)_1$, is in position (3,1). The self-scatter term of the transfer matrix, $\sigma_{1 \rightarrow 1}$, is in position (4,1), but other transfers from group 1 are along a diagonal of the matrix. If we follow this diagonal downwards, we note transfers from group 1 to the other neutron groups until we arrive at a transfer from group 1 to group 31. This last-mentioned term represents the cross section for photon-production in photon group 1 by neutrons in neutron group 1. The remainder of the group-wise photon production cross sections induced by group 1 are found by continuing down the diagonal. Risking repetition, the number found in position (45,42) of the matrix, the lower right-hand corner, is the group-averaged cross section for neutrons in the first group producing photons in the lowest-energy photon group.

Let us now examine the area of the matrix in which are located the photon interaction cross sections, namely, the upper right hand part of Fig. 1.

The photon interaction absorption cross section, $(\sigma_a^{\gamma\gamma})_1$, is located in position (1,31); it represents the cross section for the pair-production phenomenon plus that for the photoelectric effect. Position (2,31) is zero; position (3,31) contains $(\sigma_t^{\gamma\gamma})_1$, the total photon interaction cross section averaged over photon group 1. As in the neutron case, transfer terms follow along a diagonal. These are, of course, the group averages of the Legendre moments (P_0, P_1, P_2, P_3) of the Klein-Nishina differential scattering cross section as prepared by the GAMLEG code. It should also be noted that the photon coherent scattering cross section is included in $\sigma_t^{\gamma\gamma}$.

To understand the card format, let us compare Fig. 1 to actual numbers on the cards for Si (see Appendix). The first card is a header card for the P-0 table and the data begins on the second card which is labeled "Cards 1" in columns 73 to 80. The data on the cards are in columns 1 thru 72, six numbers per card in field widths of twelve. The first number on the card corresponds to position (1,1) in Fig. 1; that is, it is the absorption cross section for neutron group 1. It has a value of 0.388401. The second number on the card corresponds to $\nu\sigma_f = 0.0$ from position (2,1) of the matrix. The third number is 1.79311, which is $(\sigma_t)_1$, from position (3,1) and the fourth is 0.668171, the value for $\sigma_{1 \rightarrow 1}$ in matrix position (4,1). In the fifth field, we see the characters "41R0." This is a "compressing" feature of the FIDO format and indicates that forty-one zeros are to follow which we notice will fill out the first column of Fig. 1. The number in the sixth field, 0.51133, is $(\sigma_a)_2$ from position (1,2) in Fig. 1 which begins the cross-section data for group 2. Note that there are no "breaks" in the numbers punched on the cards so that the entire matrix can be represented by a single vector when reading the cards.

Finally, note that there are seventy-seven cards in the P₀ table but only 44 cards in each of the P₁, P₂, and P₃ tables. The reason for this is that the photon production data are isotropic and the zeros are compressed by the FIDO format in the higher order tables.

III. RESULTS

A card-image listing of the cross sections for all seven materials is given in the Appendix.

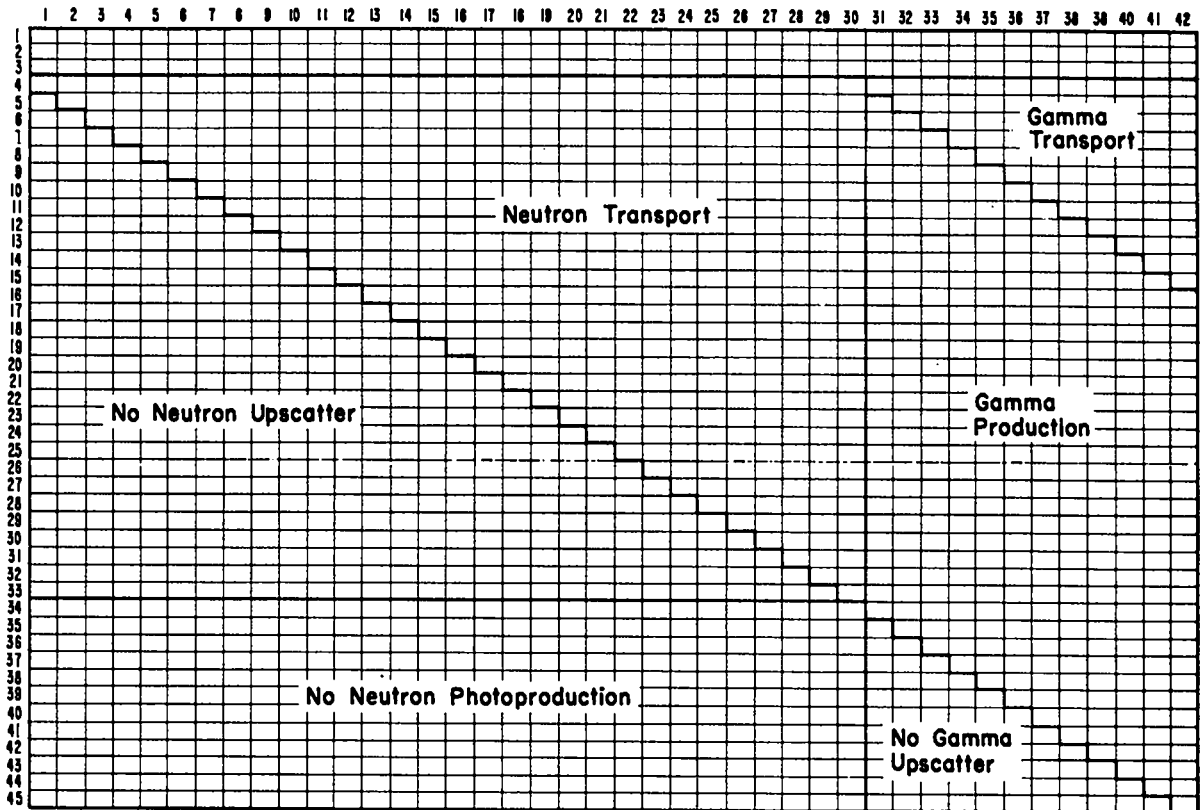


Fig. 1. Cross section format schematic.

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1. M. K. Drake (Ed.), "Data Formats and Procedures for the ENDF Neutron Cross Section Library," Brookhaven National Laboratory report BNL-50274 (T-601) (ENDF-102, Rev., Vol. I) (1970); D. J. Dudziak (Ed.), "ENDF Formats and Procedures for Photon Production and Interaction Data," Los Alamos Scientific Laboratory report LA-4549 (ENDF-102, Rev. Vol. II) (1971).
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4. K. D. Lathrop, "GAMLEG - A Fortran Code to Produce Multigroup Cross Sections for Photon Transport Calculations," Los Alamos Scientific Laboratory report LA-3267 (1965).
5. H. A. Sandmeier and Alan Marshall, private communication.

APPENDIX

30-NEUTRON GROUP BY 12-PHOTON GROUP CROSS SECTIONS

P-0 TABLE FOR N-14 (MAT1133)

2.15168-1	0.	1.5840400	5.98865-141R0.	2.36118-1CARDS	1	
0.	1.5702300	5.81985-1	2.54126-140R0.	2.41574-1CARDS	2	
0.	1.5654000	6.27922-1	2.44149-1	8.03357-239R0.	CARDS 3	
2.22935-1	0.	1.4138900	5.58955-1	2.82078-1	1.00119-1CARDS 4	
2.86260-238R0.		1.76901-1	0.	1.3210600	5.62719-1CARDS 5	
3.06062-1	3.67164-2	3.47409-2	8.37421-237R0.		1.87826-1CARDS 6	
0.	1.3695600	6.08371-1	3.68466-1	2.52589-2	4.87499-2CARDS 7	
8.30793-2	6.39552-236R0.		3.25710-1	0.	1.6507600CARDS 8	
8.18123-1	4.15610-1	5.05102-2	1.02119-1	1.12743-1	1.26958-1CARDS 9	
7.91641-235R0.		3.25724-1	0.	1.6534500	5.60152-1CARDS 10	
4.63250-1	1.43923-2	4.78476-2	3.97537-2	6.30140-2	4.48251-2CARDS 11	
2.86272-234R0.		1.54171-1	0.	1.4470800	5.20825-1CARDS 12	
7.36647-1	1.81588-2	3.29998-2	4.40598-2	3.25942-2	5.04453-2CARDS 13	
3.30863-2	3.06441-233R0.		9.67465-2	0.	1.7691300CARDS 14	
7.79857-1	7.56940-1	2.90488-2	7.43595-4	3.93027-2	2.76254-2CARDS 15	
3.18947-2	3.29964-2	2.19383-2	2.94801-232R0.		1.02545-1CARDS 16	
0.	2.1464600	1.0597200	8.56269-1	1.49515-2	0.	CARDS 17
5.05398-3	1.90540-2	1.60761-2	3.12046-2	1.93604-2	1.82934-2CARDS 18	
2.69164-231R0.		1.79235-2	0.	1.7627000	1.3308500CARDS 19	
9.84195-1	3.62534-2	2.66255-8	6.27579-4	8.89563-3	3.05884-2CARDS 20	
1.31055-2	3.22732-2	2.38619-2	2.50283-2	3.72607-230R0.	CARDS 21	
5.12746-2	0.	2.0368900	1.4831900	4.13924-1	2.43197-8CARDS 22	
1.85298-8	1.51298-8	8.51216-4	4.77927-3	1.48350-2	7.10267-3CARDS 23	
1.63528-2	1.32920-2	1.16901-2	1.64853-229R0.		1.65514-2CARDS 24	
0.	2.9442500	2.2009500	5.02424-1	1.83180-8	1.17041-8CARDS 25	
8.91767-0	2.58363-5	3.99814-4	3.15687-3	3.31900-3	4.19855-3CARDS 26	
8.20413-3	6.84835-3	5.35028-3	7.66487-328R0.		1.53423-3CARDS 27	
0.	3.4071300	2.4239100	7.26747-1	1.65460-8	7.87677-9CARDS 28	
5.03277-9	3.83461-9	6.78858-5	0.	1.59610-3	1.76462-3CARDS 29	
1.43584-3	3.69063-3	3.45936-3	1.77815-3	1.87318-327R0.	CARDS 30	
1.53645-2	0.	4.2996000	3.6291900	9.81683-1	2.16646-8CARDS 31	
9.36662-0	4.45900-9	2.84903-9	2.17075-9	6.63960-5	0.	CARDS 32
1.14231-3	1.32885-3	8.86801-4	2.36127-3	2.27400-3	1.05090-3CARDS 33	
1.10503-326R0.		1.70409-3	0.	5.8513600	4.9645200CARDS 34	
6.68878-1	7.83444-9	3.18449-9	1.37680-9	6.5543-10	4.1877-10CARDS 35	
3.1907-10	2.44059-5	0.	1.46022-4	1.57739-4	1.29860-4CARDS 36	
2.32087-4	1.57716-4	3.51157-5	3.90828-625R0.		2.49569-3CARDS 37	
0.	7.1148900	6.0876700	8.85137-1	4.48790-9	1.08712-9CARDS 38	
4.4188-10	1.9104-10	9.0948-11	5.8110-11	4.4275-11	8.08239-6CARDS 39	
4R0.	3.97564-8	2.01384-7	4.04310-7	5.30990-724R0.	CARDS 40	
4.00496-3	0.	7.8094100	6.7012500	1.0247200	4.33012-9CARDS 41	
6.1414-10	1.4876-10	6.0469-11	2.6143-11	1.2445-11	7.9520-12CARDS 42	
6.0589-12	5R0.	5.43878-926R0.		6.74908-3	0.	CARDS 43
8.4196000	7.2196600	1.1040600	4.25609-9	5.8606-10	8.3121-11CARDS 44	
2.0134-11	8.1842-12	3.5384-12	1.6844-12	1.0762-1232R0.	CARDS 45	
1.11236-2	0.	8.9924800	7.7258100	1.1931900	4.39218-9CARDS 46	
5.7984-10	7.9844-11	1.1324-11	2.7431-12	1.1150-1234R0.	CARDS 47	
1.83446-2	0.	9.4158500	8.0827800	1.2555500	4.37730-9CARDS 48	
5.9377-10	7.8389-11	1.0794-11	1.5309-1235R0.		3.02498-2CARDS 49	
0.	9.8104600	8.4273400	1.3147300	4.23970-9	5.9249-10CARDS 50	
8.0371-11	1.0610-11	1.4610-1235R0.		4.98727-2	0.	CARDS 51
9.9339500	8.5222800	1.3528700	4.43534-9	5.7295-10	8.0069-11CARDS 52	
1.0861-11	1.4339-1235R0.		8.22025-2	0.	1.00190+1CARDS 53	
8.5674700	1.3618000	4.43951-9	6.0089-10	7.7622-11	1.0847-11CARDS 54	
1.4714-1235R0.		1.35493-1	0.	1.00909+1	8.5894000CARDS 55	

1.3692800	4.44710-9	6.0186-10	8.1463-11	1.0523-11	1.4706-12CARDS	56	
35R0.	2.23185-1	0.	1.01796+1	8.5838200	1.3659800CARDS	57	
4.17067-9	6.0078-10	8.1310-11	1.1005-11.	1.4216-1235R0.	CARDS	58	
3.68106-1	0.	1.03250+1	8.5934900	1.2725600	4.21611-9CARDS	59	
5.7015-10	8.2131-11	1.1115-11	1.5045-1235R0.	0.	6.07438-10CARDS	60	
0.	1.05644+1	8.5990200	1.3634400	4.20252-9	5.6554-10CARDS	61	
7.6480-11	1.1017-11	1.4910-1235R0.	0.	1.1723600	0.	CARDS	62
1.11293+1	9.9569900	1.357970040R0.	0.	1.38750-1	0.	CARDS	63
3.20240-1	5.04090-2	3.75000-2	3.54000-3	2.14000-3	1.30000-3CARDS	64	
7.89000-4	4.74000-4	2.91000-4	1.77000-4	1.07000-4	6.60000-5CARDS	65	
4.08000-5	2.58000-5	1.78000-5	1.41000-5	1.40000-5	1.65000-5CARDS	66	
2.36000-5	2.59000-5	2.99000-5	3.61000-5	2.91000-5	1.85000-5CARDS	67	
2.17000-5	1.83000-5	1.52000-5	1.75000-5	2.04000-5	1.87000-5CARDS	68	
1.63000-5	1.01000-511R0.	0.	9.55640-2	0.	4.96170-10CARDS	69	
1.25200-2	4.88460-3	1.16000-2	1.09000-3	6.61000-4	4.01000-4CARDS	70	
2.44000-4	1.46000-4	8.97000-5	5.47000-5	3.30000-5	2.01000-5CARDS	71	
1.22000-5	7.28000-6	4.35000-6	2.45000-6	1.19000-6	4.68000-7CARDS	72	
7.00000-8	8R0.	8.4800-11	1.22000-3	6.15000-3	2R7.50000-3CARDS	73	
10R0.	8.40510-2	0.	5.21020-1	1.65950-2	2.46440-2CARDS	74	
5.36280-3	2.49000-2	2.35000-3	5.47000-3	8.64000-4	5.24000-4CARDS	75	
3.15000-4	1.93000-4	1.18000-4	7.10000-5	4.33000-5	2.62000-5CARDS	76	
1.57000-5	9.36000-6	5.28000-6	2.56000-6	1.01000-6	1.51000-7CARDS	77	
7R0.	5.83000-4	1.51000-2	3.92000-2	4.66000-2	5.12000-2CARDS	78	
5.07000-2	9R0.	7.30130-2	0.	5.56620-1	2.13860-2CARDS	79	
3.14920-2	2.51000-2	6.01310-3	4.78000-2	4.52000-3	2.73000-3CARDS	80	
1.66000-3	1.01000-3	6.04000-4	3.70000-4	2.26000-4	1.36000-4CARDS	81	
8.31000-5	5.03000-5	3.01000-5	1.80000-5	1.01000-5	4.92000-6CARDS	82	
1.93000-6	2.89000-7	6R0.	4.66000-6	4.33000-3	2.18000-2CARDS	83	
4.70000-2	5.06000-2	4.57000-2	3.63000-2	8R0.	6.14100-2CARDS	84	
0.	6.01030-1	3.14910-2	4.21180-2	3.22000-2	2.62570-2CARDS	85	
6.93050-3	2.03000-1	1.92000-2	1.16000-2	7.03000-3	4.27000-3CARDS	86	
2.56000-3	1.57000-3	9.58000-4	5.78000-4	3.52000-4	2.13000-4CARDS	87	
1.28000-4	7.62000-5	4.30000-5	2.09000-5	8.20000-6	1.23000-6CARDS	88	
6R0.	8.75000-4	4.77000-2	8.79000-2	6.44000-2	5.79000-2CARDS	89	
5.42000-2	4.89000-2	7R0.	4.76130-2	0.	6.67230-1CARDS	90	
4.39030-2	5.81090-2	4.36130-2	3.43970-2	2.85920-2	8.29570-3CARDS	91	
4.15000-2	3.92000-3	2.37000-3	1.44000-3	8.73000-4	5.25000-4CARDS	92	
3.22000-4	1.96000-4	1.18000-4	7.22000-5	4.37000-5	2.61000-5CARDS	93	
1.56000-5	8.79000-6	4.27000-6	1.68000-6	2.51000-7	6R0.	CARDS	94
1.64000-3	4.25000-2	4.55000-2	6.37000-2	6.90000-2	6.65000-2CARDS	95	
5.87000-2	6R0.	3.16740-2	0.	7.57040-1	7.35940-2CARDS	96	
8.81290-2	6.13990-2	4.78940-2	3.89720-2	3.31490-2	1.05020-2CARDS	97	
7.04000-2	6.66000-3	4.02000-3	2.44000-3	1.48000-3	8.91000-4CARDS	98	
5.46000-4	3.33000-4	2.01000-4	1.22000-4	7.41000-5	4.43000-5CARDS	99	
2.65000-5	1.49000-5	7.25000-6	2.85000-6	4.26000-7	6R0.	CARDS	100
7.77000-4	1.34000-2	2.64000-2	5.25000-2	5.58000-2	6.60000-2CARDS	101	
9.11000-2	5R0.	1.61060-2	0.	9.04370-1	1.40830-1CARDS	102	
1.45030-1	9.66730-2	7.18900-2	5.84970-2	4.91380-2	4.27320-2CARDS	103	
1.46020-2	2.01000-2	1.90000-3	1.15000-3	6.98000-4	4.24000-4CARDS	104	
2.54000-4	1.56000-4	9.51000-5	5.74000-5	3.50000-5	2.12000-5CARDS	105	
1.27000-5	7.56000-6	4.26000-6	2.07000-6	8.14000-7	1.22000-7CARDS	106	
4R0.	2.50000-4	2.46000-3	4.98000-2	1.55000-1	1.39000-1CARDS	107	
1.19000-1	9.46000-2	8.18000-2	6.90000-2	4R0.	6.63310-3CARDS	108	
0.	1.1868000	3.60950-1	2.90230-1	1.79080-1	1.33120-1CARDS	109	
1.06040-1	8.97730-2	7.75170-2	6.86430-2	2.47810-2	8.72000-2CARDS	110	
8.25000-3	4.99000-3	3.03000-3	1.84000-3	1.10000-3	6.77000-4CARDS	111	
4.12000-4	2.49000-4	1.52000-4	9.18000-5	5.49000-5	3.28000-5CARDS	112	
1.85000-5	8.98000-6	3.53000-6	5.28000-7	6R0.	1.97000-2CARDS	113	
7.79000-2	5.48000-2	5.01000-2	3.48000-2	2.82000-2	2.31000-2CARDS	114	
3R0.	5.02640-4	0.	1.6991000	6.42440-1	4.00560-1CARDS	115	
2.13160-1	1.54100-1	1.22570-1	1.01140-1	8.71600-2	7.61120-2CARDS	116	
6.78590-2	2.48640-2	1.01000-3	9.51000-5	5.75000-5	3.49000-5CARDS	117	

2.12000-5	1.27000-5	7.80000-6	4.75000-6	2.87000-6	1.75000-6	CARDS118
1.06000-6	6.33000-7	3.78000-7	2.13000-7	1.04000-7	4.07000-8	CARDS119
6.09000-2	6R0.	8.36000-6	1.05000-2	2R2.43000-2	2.37000-2	CARDS120
2.34000-2	2.18000-2	2R0.	9.24490-3	0.	2.4627000	CARDS121
2.3233000	1.0561000	4.18620-1	2.44040-1	1.73570-1	1.35220-1	CARDS122
1.09560-1	9.31700-2	8.04520-2	7.11050-2	2.48490-2	25R0.	CARDS123
4.12000-6	2.38000-3	3.61000-3	5.52000-3	9.99000-3	0.	CARDS124
1.23880+1	0.	1.76450+1	5.2573000	1.30210-1	140R0.	CARDS125

P-1 TABLE FOR N-14 (MAT1133)

2.15168-1	0.	8.64508-1	5.44613-1	141R0.	2.36118-1	CARDS 1
0.	8.31892-1	5.35060-1	1.37917-1	140R0.	2.41574-1	CARDS 2
0.	8.03490-1	5.53080-1	1.02138-1	-2.2924-2	239R0.	CARDS 3
2.22935-1	0.	6.50333-1	4.59600-1	2.84793-2	-4.1424-2	CARDS 4
-1.0267-2	238R0.	1.76901-1	0.	5.30129-1	4.11673-1	CARDS 5
-2.6468-2	-1.9642-2	239R0.	1.87826-1	0.	5.44007-1	CARDS 6
4.26613-1	-5.1740-2	-5.7331-3	399R0.	3.25710-1	0.	CARDS 7
5.46775-1	4.18887-1	-7.0432-2	-6.7056-3	339R0.	3.25724-1	CARDS 8
0.	3.37660-1	3.41883-1	-1.8184-1	140R0.	1.54171-1	CARDS 9
0.	2.11172-1	2.90891-1	-3.0330-1	-1.5974-2	239R0.	CARDS 10
9.67465-2	0.	2.84027-1	4.28677-1	-2.2025-1	-2.6637-2	CARDS 11
39R0.	1.02545-1	0.	4.91771-1	5.83707-1	-2.0784-1	CARDS 12
-1.3636-2	239R0.	1.79235-2	0.	2.24770-1	3.27884-1	CARDS 13
-1.9448-1	-3.3540-2	239R0.	5.12746-2	0.	1.91733-1	CARDS 14
2.70825-1	-1.2103-1	140R0.	1.65514-2	0.	1.93306-1	CARDS 15
4.07203-1	-1.3036-1	140R0.	1.53423-3	0.	1.56409-1	CARDS 16
4.46447-1	-2.3044-1	140R0.	1.53645-3	0.	2.06235-1	CARDS 17
4.02137-1	-2.9157-1	140R0.	1.70409-3	0.	2.81756-1	CARDS 18
5.43433-1	-1.9743-1	140R0.	2.49569-3	0.	3.43652-1	CARDS 19
6.47643-1	-2.6338-1	140R0.	4.09496-3	0.	3.78756-1	CARDS 20
7.05120-1	-3.0648-1	140R0.	6.74908-3	0.	4.10676-1	CARDS 21
7.61097-1	-3.3045-1	140R0.	1.11236-2	0.	4.42387-1	CARDS 22
8.07737-1	-3.5717-1	140R0.	1.83446-2	0.	4.69608-1	CARDS 23
8.45437-1	-3.7647-1	140R0.	3.02498-2	0.	4.99896-1	CARDS 24
8.76137-1	-3.9417-1	140R0.	4.98727-2	0.	5.24509-1	CARDS 25
8.83813-1	-4.0649-1	140R0.	8.22025-2	0.	5.59360-1	CARDS 26
8.88670-1	-4.0917-1	140R0.	1.35493-1	0.	6.13556-1	CARDS 27
8.88680-1	-4.1150-1	140R0.	2.23185-1	0.	7.01295-1	CARDS 28
8.90670-1	-4.1061-1	140R0.	3.68106-1	0.	8.46243-1	CARDS 29
8.87890-1	-4.1256-1	140R0.	6.37438-1	0.	1.0855800	CARDS 30
8.86590-1	-4.0975-1	140R0.	1.1723600	0.	1.6505000	CARDS 31
4.78140-1	-4.0845-1	143R0.	4.97330-2	244R0.	1.24740-2	CARDS 32
4.70330-2	343R0.	1.65220-2	2.44440-2	5.11950-3	342R0.	CARDS 33
2.12710-2	3.11510-2	2.46310-2	5.67570-3	341R0.	3.12690-2	CARDS 34
4.15060-2	3.14740-2	2.53860-2	6.44020-3	340R0.	4.34730-2	CARDS 35
5.68480-2	4.20630-2	3.28050-2	2.70430-2	7.53300-3	339R0.	CARDS 36
7.24420-2	8.52010-2	5.80210-2	4.45940-2	3.58670-2	3.02450-2	CARDS 37
9.18340-2	338R0.	1.36670-1	1.36100-1	8.75250-2	6.35070-2	CARDS 38
5.08570-2	4.21870-2	3.63460-2	1.18620-2	237R0.	3.31590-1	CARDS 39
2.45860-1	1.40190-1	9.96490-2	7.69720-2	6.38750-2	5.42960-2	CARDS 40
4.75230-2	1.62000-2	236R0.	5.45600-1	3.55070-1	1.00460-1	CARDS 41
6.30870-2	4.61390-2	3.58650-2	2.97030-2	2.51230-2	2.18660-2	CARDS 42
7.07790-3	335R0.	6.05780-1	1.34770-2	-1.1407-1	-8.5867-2	CARDS 43
-6.6316-2	-5.3872-2	-4.4848-2	-3.8790-2	-3.3934-2	-3.0276-2	CARDS 44
-1.1062-2	234R0.	3.22910-1	-4.3124-2	240R0.	0.	CARDS 45

P-2 TABLE FOR N-14 (MAT1133)

2.15168-1	0.	6.86998-1	4.55318-1	141R0.	2.36118-1	CARDS 1
0.	6.56640-1	4.52528-1	2.71528-2	240R0.	2.41574-1	CARDS 2
0.	6.32270-1	4.36314-1	-2.2936-2	-1.7065-2	239R0.	CARDS 3
2.22935-1	0.	5.28632-1	3.36914-1	-5.6730-2	-9.0698-3	CARDS 4
7.32496-2	338R0.	1.76901-1	0.	4.33146-1	2.74852-1	CARDS 5
-3.6107-2	1.11211-2	239R0.	1.87826-1	0.	4.52525-1	CARDS 6
2.71900-1	-2.4061-2	4.99094-2	399R0.	3.25710-1	0.	CARDS 7

6.93301-1	2.94720-1	-7.2014-3	5.45510-339R0.	3.25724-1CARDS	8	
0.	5.88317-1	1.73143-1	5.95326-240R0.	1.54171-1CAPDS	9	
0.	2.87507-1	1.11164-1	6.71684-2.	1.33387-239R0.	CAPDS 10	
9.67465-2	0.	2.66659-1	1.41655-1	1.09028-2	2.22816-2CARDS 11	
39R0.	1.02545-1	0.	2.41799-1	1.70724-1	-3.6274-4CAPDS 12	
1.12688-239R0.	0.	1.79235-2	0.	5.36152-2	3.67140-2CARDS 13	
-3.1470-2	2.86212-239R0.	0.	5.12746-2	0.	6.20547-2CARDS 14	
2.71434-2	-1.0222-340R0.	0.	1.65514-2	0.	6.44196-2CAPDS 15	
5.37106-2	-1.6262-240R0.	0.	1.53423-3	0.	5.30902-2CARDS 16	
2.41872-2	-5.8424-340R0.	0.	1.53645-3	0.	6.31545-2CARDS 17	
1.94766-2	-2.0412-240R0.	0.	1.70409-3	0.	7.94177-2CARDS 18	
2.46228-2	-1.4697-240R0.	0.	2.49569-3	0.	9.96140-2CARDS 19	
2.78878-2	-1.8385-240R0.	0.	4.09496-3	0.	1.22398-2CARDS 20	
2.99690-2	-2.0422-240R0.	0.	6.74908-3	0.	1.55085-2CARDS 21	
3.23302-2	-2.1824-240R0.	0.	1.11236-2	0.	2.04674-2CARDS 22	
3.37984-2	-2.3570-240R0.	0.	1.83446-2	0.	2.81186-2CARDS 23	
3.54068-2	-2.4454-240R0.	0.	3.02498-2	0.	4.04208-2CARDS 24	
3.60628-2	-2.5632-240R0.	0.	4.98727-2	0.	6.01515-2CARDS 25	
3.63416-2	-2.5891-240R0.	0.	8.22025-2	0.	9.25350-2CARDS 26	
3.65022-2	-2.6062-240R0.	0.	1.35493-1	0.	1.45846-1CARDS 27	
3.63932-2	-2.6168-240R0.	0.	2.23185-1	0.	2.33539-1CARDS 28	
3.65396-2	-2.6040-240R0.	0.	3.68106-1	0.	3.78460-1CARDS 29	
3.64024-2	-2.6185-240R0.	0.	6.07438-1	0.	6.17792-1CARDS 30	
3.61116-2	-2.6048-240R0.	0.	1.1723600	0.	1.1827100CARDS 31	
1.03544-2	-2.5757-243R0.	0.	4.84170-244R0.	0.	1.24150-2CARDS 32	
4.35140-343R0.	1.64200-2	0.	2.40470-2	4.65020-342R0.	CARDS 33	
2.10970-2	3.04770-2	2.37060-2	5.03010-341R0.	3.09030-2CARDS	34	
4.02970-2	2.98740-2	2.36890-2	5.51260-340R0.	4.27360-2CARDS	35	
5.43730-2	3.90510-2	2.97350-2	2.40740-2	6.11420-339R0.	CARDS 36	
7.03730-2	7.95170-2	5.15580-2	3.83470-2	3.00370-2	2.48270-2CARDS 37	
6.79780-338R0.	1.29020-1	0.	1.19240-1	7.06240-2	4.82750-2CARDS 38	
3.71280-2	2.98050-2	2.50450-2	7.16740-337R0.	0.	2.79570-1CARDS 39	
1.69890-1	7.65740-2	4.64140-2	3.16500-2	2.40150-2	1.89150-2CARDS 40	
1.55860-2	3.69710-336R0.	0.	3.90490-1	5.99790-2	-2.8420-2CAPDS 41	
-3.3259-2	-3.1238-2	-2.8201-2	-2.5565-2	-2.3146-2	-2.1158-2CAPDS 42	
-8.6021-335R0.	3.30910-1	0.	-7.5047-2	-6.7059-2	-3.3754-2CAPDS 43	
-2.1340-2	-1.5284-2	-1.1587-2	-9.3964-3	-7.7948-3	-6.6758-3CAPDS 44	
-1.9480-334R0.	3.94580-1	0.	1.44790-240R0.	0.	CARDS 45	
P-3 TABLE FOR N-14 (MAT1133)						
2.15168-1	0.	5.75481-1	3.55871-141R0.	2.36118-1CARDS	1	
0.	5.67273-1	3.51883-1	-2.5321-340R0.	2.41574-1CARDS	2	
0.	5.58837-1	3.18320-1	-2.5304-2	1.12229-239R0.	CARDS 3	
2.22935-1	0.	4.80373-1	2.47991-1	3.51026-3	1.45764-2CARDS 4	
-4.2495-338R0.	0.	1.76901-1	0.	3.99695-1	2.09863-1CARDS 5	
1.32747-2	-4.5925-339R0.	0.	1.87826-1	0.	4.22025-1CARDS 6	
1.99459-1	1.68332-2	-3.8179-339R0.	0.	3.25710-1	0.	CARDS 7
4.74530-1	1.64852-1	3.47401-2	-3.9017-339R0.	0.	2.25724-1CARDS 8	
0.	4.27501-1	1.06676-1	-6.0176-340R0.	0.	1.54171-1CARDS 9	
0.	2.01826-1	5.38973-2	1.18903-2	-1.0014-239R0.	CARDS 10	
9.67465-2	0.	1.38570-1	6.07734-2	2.05803-3	-1.6789-2CARDS 11	
39R0.	1.02545-1	0.	1.20714-1	3.84604-2	3.36096-3CAPDS 12	
-8.3004-339R0.	0.	1.79235-2	0.	2.00718-2	8.64097-2CARDS 13	
-2.0291-2	-2.2311-239R0.	0.	5.12746-2	0.	5.20180-2CAPDS 14	
5.88577-2	-6.4927-340R0.	0.	1.65514-2	0.	2.13303-2CAPDS 15	
6.38533-2	-5.1422-340R0.	0.	1.53423-3	0.	1.60338-3CAPDS 16	
7.96510-4	-1.1064-340R0.	0.	1.53645-3	0.	1.57285-3CAPDS 17	
4.00320-4	-7.2735-440R0.	0.	1.70409-3	0.	1.71032-2CAPDS 18	
4.45851-4	-4.5391-440R0.	0.	2.49569-3	0.	2.48488-2CAPDS 19	
4.76374-4	-4.3962-440R0.	0.	4.09496-3	0.	4.07563-2CAPDS 20	
5.18467-4	-4.8718-440R0.	0.	6.74908-3	0.	6.72502-3CAPDS 21	
5.55014-4	-5.3779-440R0.	0.	1.11236-2	0.	1.10970-2CAPDS 22	
5.58493-4	-5.7907-440R0.	0.	1.83446-2	0.	1.83162-2CAPDS 23	

5.85911-4	-5.8511-440R0.		3.02498-2	0.	3.02203-2CARDS	24
5.70073-4	-6.1426-440R0.		4.98727-2	0.	4.98429-2CARDS	25
5.73807-4	-5.9961-440R0.		8.22025-2	0.	8.21726-2CARDS	26
5.65561-4	-6.0356-440R0.		1.35493-1	0.	1.35463-1CARDS	27
5.68767-4	-5.9551-440R0.		2.23185-1	0.	2.23155-1CARDS	28
5.72810-4	-5.9867-440R0.		3.68106-1	0.	3.68076-1CARDS	29
5.71401-4	-6.0285-440R0.		6.07438-1	0.	6.07408-1CARDS	30
5.56853-4	-6.0124-440R0.		1.1723600	0.	1.1723300CARDS	31
-2.9771-5	-5.8662-443R0.		4.64950-244R0.		1.23260-2CARDS	32
3.84940-343R0.		1.62660-2	2.34580-2	3.98770-342R0.		CARDS 33
2.08390-2	2.94810-2	2.23540-2	4.13150-341R0.		3.03610-2CARDS	34
3.85210-2	2.75550-2	2.12530-2	4.24690-340R0.		4.16490-2CARDS	35
5.07790-2	3.47430-2	2.54050-2	1.99290-2	4.23570-339R0.		CARDS 36
6.73530-2	7.14110-2	4.25720-2	2.98140-2	2.21890-2	1.76140-2CARDS	37
3.79440-338R0.		1.18160-1	9.62770-2	4.85050-2	2.89360-2CARDS	38
2.00500-2	1.46510-2	1.13830-2	1.83520-337R0.		2.13630-1CARDS	39
8.31650-2	1.02690-2	-5.9518-3	-1.0968-2	-1.2401-2	-1.2658-2CARDS	40
-1.2431-2	-6.3361-336R0.		2.25430-1	-7.1885-2	-7.8546-2CARDS	41
-5.8168-2	-4.5581-2	-3.6881-2	-3.1269-2	-2.6906-2	-2.3702-2CARDS	42
-8.0802-335R0.		1.08360-1	-8.2498-2	9.86880-3	2.18730-2CARDS	43
1.97870-2	1.70870-2	1.47050-2	1.29530-2	1.14770-2	1.02290-2CARDS	44
3.89830-334R0.		3.97350-2	-1.6336-340R0.		CARDS 45	
P-0 TABLE FOR O-16 (MAT1124)						
1.17457-1	0.	1.6210600	6.06153-141R0.		1.79072-1CARDS	1
0.	1.6293200	6.38088-1	2.78870-140R0.		1.78118-1CARDS	2
0.	1.5836500	7.05578-1	2.72204-1	5.09412-239R0.		CARDS 3
1.98091-1	0.	1.5251800	6.98075-1	3.05000-1	6.02629-2CARDS	4
2.34717-338R0.		1.07476-1	0.	1.1977200	5.03487-1CARDS	5
3.93336-1	2.26048-2	0.	7.24266-237R0.		8.30231-2CARDS	6
0.	1.0781800	5.04057-1	3.86169-1	8.38135-5	1.12753-2CARDS	7
1.31204-1	5.14043-236R0.		4.76225-2	0.	1.8596200CARDS	8
1.2290000	4.48774-1	1.78621-4	8.55287-2	1.77344-1	1.12543-1CARDS	9
1.55209-135R0.		1.36286-3	0.	2.3032300	1.4529800CARDS	10
5.82942-1	0.	1.75717-2	7.62861-2	2.78919-2	8.47177-2CARDS	11
9.28035-234R0.		2.74763-4	0.	8.74347-1	4.95896-1CARDS	12
8.48812-1	5.30713-5	0.	4.74578-2	2.83208-2	6.35698-2CARDS	13
7.58772-2	5.80545-233R0.		2.02240-8	0.	1.7898400CARDS	14
9.42433-1	3.78095-1	7.68532-5	1.41680-8	0.	5.38988-2CARDS	15
1.13509-2	4.26179-2	4.53049-2	3.89817-232R0.		2.29202-8CARDS	16
0.	2.2403700	1.1967400	8.47338-1	8.14519-5	1.51107-8CARDS	17
1.33189-8	0.	4.26801-2	1.03955-2	2.20687-2	1.84349-2CARDS	18
3.14079-231R0.		2.76280-8	0.	4.2109200	3.1203600CARDS	19
1.0436300	7.36476-5	2.66211-8	2.29516-8	2.02300-8	1.12741-2CARDS	20
2.55821-2	1.69754-2	1.88375-2	7.30455-3	3.97379-230R0.		CARDS 21
3.52379-8	0.	3.1428400	2.5753600	1.0905600	2.43197-8CARDS	22
1.85298-8	1.51273-8	1.30421-8	1.14956-8	1.14868-2	9.23897-3CARDS	23
5.16622-3	6.13066-3	2.48506-3	1.62187-229R0.		4.50927-8CARDS	24
0.	7.1679100	6.1457600	5.67476-1	1.83180-8	1.17041-8CARDS	25
8.91767-9	7.28016-9	6.27666-9	5.53238-9	7.37511-3	3.43658-3CARDS	26
9.98740-4	1.87937-3	1.13541-3	6.20303-328R0.		5.83878-8CARDS	27
0.	3.5448700	2.6112700	1.0221500	1.65460-8	7.87677-9CARDS	28
5.03277-9	3.83461-9	3.13048-9	2.69897-9	2.37893-9	4.87554-3CARDS	29
5.09977-4	3.89953-4	5.36529-4	4.48325-4	1.99890-327R0.		CARDS 30
8.56654-8	0.	3.5846700	3.1332100	9.33602-1	2.16646-8CARDS	31
9.36662-9	4.45900-9	2.84903-9	2.17075-9	1.77215-9	1.52787-9CARDS	32
1.34670-9	5.41424-3	3.40177-5	1.76008-4	1.92970-4	2.23406-4CARDS	33
8.44562-426R0.		1.41362-7	0.	3.6562300	3.2085300CARDS	34
4.51457-1	7.83444-9	3.18449-9	1.37680-9	6.5543-10	4.1877-10CARDS	35
3.1907-10	2.6048-10	2.2458-10	1.9795-10	1.24690-3	0.	CARDS 36
7.74505-6	5.28291-6	1.03075-5	5.71995-625R0.		2.33275-7CARDS	37
0.	3.6856400	3.2371100	4.47704-1	4.48790-9	1.08712-9CARDS	38
4.4188-10	1.9104-10	9.0948-11	5.8110-11	4.4275-11	3.6145-11CARDS	39

3.1163-11	2.7468-11	5.18109-529R0.	2.84795-7	0.	CARDS	40	
3.6969800	3.2492200	4.48527-1	4.33012-9	6.1414-10	1.4876-10CARDS	41	
6.0469-11	2.6143-11	1.2445-11	7.9520-12.	6.0589-12	4.0463-12CARDS	42	
4.2645-12	3.7588-1229R0.		6.34232-7	0.	3.7014200CARDS	43	
3.2524800	4.47758-1	4.25609-9	5.8606-10	8.3121-11	2.0134-11CARDS	44	
8.1842-12	3.5384-12	1.6844-12	1.0762-1232R0.		1.04536-6CARDS	45	
0.	3.7031600	3.2556100	4.48942-1	4.39218-9	5.7984-10CARDS	46	
7.9844-11	1.1324-11	2.7431-12	1.1150-1224R0.		1.72400-6CARDS	47	
0.	3.7037700	3.2555700	4.47547-1	4.37730-9	5.9377-10CARDS	48	
7.8389-11	1.0794-11	1.5309-1235R0.		2.84289-6	0.	CARDS	49
3.7041000	3.2561700	4.48198-1	4.23970-9	5.9249-10	8.0371-11CARDS	50	
1.0610-11	1.4610-1235R0.		4.68713-6	0.	3.7041400CARDS	51	
3.2557100	4.47927-1	4.43534-9	5.7295-10	8.0069-11	1.0861-11CARDS	52	
1.4339-1235R0.		7.72568-6	0.	3.7040000	3.2553200CARDS	53	
4.48428-1	4.43951-9	6.0089-10	7.7622-11	1.0847-11	1.4714-12CARDS	54	
35R0.	1.27343-5	0.	3.7040100	3.2564800	4.48674-1CARDS	55	
4.44710-9	6.0186-10	8.1463-11	1.0523-11	1.4706-1235R0.		CARDS	56
2.09764-5	0.	3.7040200	3.2543500	4.47517-1	4.17067-9CARDS	57	
6.0078-10	8.1310-11	1.1005-11	1.4216-1235R0.		3.45972-5CARDS	58	
0.	3.7040300	3.2573400	4.49635-1	4.21611-9	5.7015-10CARDS	59	
8.2131-11	1.1115-11	1.5045-1235R0.		5.70901-5	0.	CARDS	60
3.7040500	3.2592100	4.46656-1	4.20252-9	5.6554-10	7.6480-11CARDS	61	
1.1017-11	1.4910-1235R0.		1.10184-4	0.	3.7041100CARDS	62	
3.7040000	4.44787-140R0.		1.79080-1	0.	3.86500-1CARDS	63	
5.76120-241R0.		1.23710-1	0.	5.81550-1	1.43140-2CARDS	64	
5.58240-225R0.		5.72000-5	2.30000-3	3.33000-3	3.68000-3CARDS	65	
2.80000-310R0.		1.08920-1	0.	6.08320-1	1.89730-2CARDS	66	
2.81650-2	6.12890-324R0.		4.67000-4	2.50000-2	4.84000-2CARDS	67	
4.66000-2	4.97000-2	3.66000-2	9R0.	9.47160-2	0.	CARDS	68
6.47420-1	2.44500-2	3.59900-2	2.86850-2	6.87210-324R0.		CARDS	69
3.82000-2	1.51000-1	1.50000-1	1.75000-1	1.80000-1	1.34000-1CARDS	70	
RR0.	7.97660-2	0.	6.96490-1	3.60020-2	4.81350-2CARDS	71	
3.69020-2	3.00070-2	7.92050-337R0.		6.19300-2	0.	CARDS	72
7.70080-1	5.01930-2	6.64110-2	4.98440-2	3.93110-2	3.26770-2CARDS	73	
9.48080-326R0.		1.95000-5	1.09000-2	4.33000-2	1.02000-1CARDS	74	
6R0.	4.12840-2	0.	8.70310-1	8.41380-2	1.00720-1CARDS	75	
7.01710-2	5.47360-2	4.45390-2	3.78850-2	1.20020-2	8.71000-5CARDS	76	
8.25000-6	4.99000-6	3.03000-6	1.84000-6	1.10000-6	6.77000-7CARDS	77	
4.12000-7	2.49000-7	1.52000-7	9.22000-8	5.55000-8	3.40000-8CARDS	78	
2.05000-8	1.24000-8	8.50000-9	6.59000-9	5.13000-9	4.02000-9CARDS	79	
3.34000-9	2.95000-9	2.60000-9	2.30000-9	6.39000-6	4.40000-3CARDS	80	
7.12000-2	1.46000-1	1.12000-1	1.03000-1	6.97000-2	5R0.	CARDS	81
2.10420-2	0.	1.0363000	1.61020-1	1.65750-1	1.10480-1CARDS	82	
8.21600-2	6.68540-2	5.61580-2	4.88360-2	1.66870-2	5.10000-4CARDS	83	
4.83000-5	2.92000-5	1.77000-5	1.08000-5	6.46000-6	3.96000-6CARDS	84	
2.41000-6	1.46000-6	8.89000-7	5.39000-7	3.25000-7	1.99000-7CARDS	85	
1.20000-7	7.27000-8	4.97000-8	3.85000-8	3.00000-8	2.35000-8CARDS	86	
1.95000-8	1.73000-8	1.52000-8	1.35000-8	1.14000-8	9.26000-9CARDS	87	
6.04000-4	2.43000-2	3.63000-2	4.32000-2	3.46000-2	4R0.	CARDS	88
8.69820-3	0.	1.3576000	4.12720-1	3.31690-1	2.04660-1CARDS	89	
1.52140-1	1.21190-1	1.02600-1	8.85910-2	7.84500-2	2.83210-2CARDS	90	
5.10000-4	4.83000-5	2.92000-5	1.77000-5	1.08000-5	6.46000-6CARDS	91	
3.96000-6	2.41000-6	1.46000-6	8.89000-7	5.39000-7	3.25000-7CARDS	92	
1.99000-7	1.20000-7	7.27000-8	4.97000-8	3.85000-8	3.00000-8CARDS	93	
2.35000-8	1.95000-8	1.73000-8	1.52000-8	1.35000-8	1.14000-8CARDS	94	
9.26000-9	1.34000-4	5.37000-3	7.77000-3	8.58000-3	6.52000-3CARDS	95	
3R0.	7.48490-4	0.	1.9428000	7.35020-1	4.57780-1CARDS	96	
2.43610-1	1.76110-1	1.40080-1	1.15580-1	9.96110-2	8.69850-2CARDS	97	
7.75530-2	2.84160-2	5.97000-4	5.65000-5	3.42000-5	2.08000-5CARDS	98	
1.26000-5	7.56000-6	4.64000-6	2.83000-6	1.70000-6	1.04000-6CARDS	99	
6.31000-7	3.80000-7	2.33000-7	1.41000-7	8.52000-8	5.82000-8CARDS	100	
4.51000-8	3.52000-8	2.76000-8	2.29000-8	2.02000-8	1.78000-8CARDS	101	

1.58000-8	1.33000-8	1.37000-2	5.23000-2	4.40000-2	3.75000-2	CARDS102
3.70000-2	2.69000-2	2R0.	1.83570-2	0.	2.8345000	CARDS103
2.6673000	1.2070000	4.78420-1	2.78900-1	1.98360-1	1.54530-1	CARDS104
1.25210-1	1.06480-1	9.19460-2	8.12630-2	2.83990-2	224R0.	CARDS105
2.80000-4	5.07000-3	3.62000-2	4.07000-2	4.85000-2	3.29000-2	CARDS106
0.	2.26740+1	0.	2.91190+1	6.4455000	1.48810-1	CARDS107
40R0.						CARDS108

P-1 TABLE FOR O-15 (MAT1124)

1.17457-1	0.	7.79482-1	5.43950-141R0.		1.79072-1	CARDS 1
0.	8.22054-1	5.84797-1	1.44278-140R0.		1.78118-1	CARDS 2
0.	7.85991-1	6.04893-1	9.40893-2	-2.4032-2	39R0.	CARDS 3
1.98091-1	0.	6.24911-1	5.31170-1	2.19783-2	-3.5904-2	CARDS 4
-2.1706-3	38R0.	1.07476-1	0.	3.28751-1	3.13900-1	CARDS 5
-1.0426-1	-1.8990-2	39R0.	8.30231-2	0.	1.94573-1	CARDS 6
2.58033-1	-9.2447-2	-8.3207-5	39R0.	4.76225-2	0.	CARDS 7
6.15123-1	6.17350-1	-1.4648-1	-1.7718-4	39R0.	1.36286-3	CARDS 8
0.	5.21783-1	8.82517-1	-4.9796-2	4CR0.	2.74763-4	CARDS 9
0.	5.51668-2	1.75849-1	-2.6202-1	-5.2748-5	39R0.	CARDS 10
2.02240-8	0.	2.12411-1	4.95507-1	-1.2087-1	-7.6248-5	CARDS 11
39R0.	2.29202-8	0.	3.38506-1	5.89017-1	-2.8302-1	CARDS 12
-8.0917-5	39R0.	2.76280-8	0.	3.33470-1	8.38537-1	CARDS 13
-2.5051-1	-7.3193-5	39R0.	3.52379-8	0.	8.70911-1	CARDS 14
8.41540-1	-5.0506-1	40R0.	4.50927-8	0.	8.50407-1	CARDS 15
1.3212700	2.93705-2	40R0.	5.83878-8	0.	-2.7968-1	CARDS 16
5.72957-2	-4.7086-1	40R0.	8.56654-8	0.	-1.1554-2	CARDS 17
1.34365-1	-3.3698-1	40R0.	1.41362-7	0.	9.39368-2	CARDS 18
2.33482-1	-1.4592-1	40R0.	2.33275-7	0.	1.32809-1	CARDS 19
2.70630-1	-1.3954-1	40R0.	3.84795-7	0.	1.47258-1	CARDS 20
2.84117-1	-1.3782-1	40R0.	6.34232-7	0.	1.52600-1	CARDS 21
2.89566-1	-1.3685-1	40R0.	1.04536-6	0.	1.54573-1	CARDS 22
2.91019-1	-1.3696-1	40R0.	1.72400-6	0.	1.55300-1	CARDS 23
2.91894-1	-1.3644-1	40R0.	2.84289-6	0.	1.55573-1	CARDS 24
2.92072-1	-1.3659-1	40R0.	4.68713-6	0.	1.55671-1	CARDS 25
2.92316-1	-1.3650-1	40R0.	7.72568-6	0.	1.55703-1	CARDS 26
2.92412-1	-1.3665-1	40R0.	1.27343-5	0.	1.55721-1	CARDS 27
2.92097-1	-1.3671-1	40R0.	2.09764-5	0.	1.55734-1	CARDS 28
2.92736-1	-1.3638-1	40R0.	3.45972-5	0.	1.55749-1	CARDS 29
2.91810-1	-1.3702-1	40R0.	5.70901-5	0.	1.55772-1	CARDS 30
2.91338-1	-1.3609-1	40R0.	1.10184-4	0.	1.55825-1	CARDS 31
1.55715-1	-1.3562-1	43R0.	5.68387-2	44R0.	1.42560-2	CARDS 32
5.37520-2	39R0.	1.88830-2	2.79360-2	5.85090-2	342R0.	CARDS 33
2.43090-2	3.56010-2	2.81490-2	6.48660-3	41R0.	3.57360-2	CARDS 34
4.74350-2	3.59700-2	2.90130-2	7.36020-3	40R0.	4.96830-2	CARDS 35
6.49690-2	4.80720-2	3.74910-2	3.09070-2	8.60920-3	339R0.	CARDS 36
8.27910-2	9.73720-2	6.63090-2	5.09640-2	4.09900-2	3.45660-2	CARDS 37
1.04950-2	38R0.	1.56190-1	1.55550-1	1.70030-1	7.25800-2	CARDS 38
5.81230-2	4.82140-2	4.15380-2	1.35560-2	27R0.	3.78960-1	CARDS 39
2.80980-1	1.60220-1	1.13880-1	8.79680-2	7.30000-2	6.20520-2	CARDS 40
5.43120-2	1.85140-2	236R0.	6.23550-1	2.91430-1	1.14810-1	CARDS 41
7.21000-2	5.27310-2	4.09890-2	3.39470-2	2.87130-2	2.49900-2	CARDS 42
8.08910-3	35R0.	6.92320-1	1.54020-2	-1.3037-1	-9.8134-2	CARDS 43
-7.5789-2	-6.1568-2	-5.1254-2	-4.4332-2	-3.8781-2	-3.4602-2	CARDS 44
-1.2643-2	34R0.	3.69040-1	-4.9285-2	40R0.		CARDS 45

P-2 TABLE FOR O-16 (MAT1134)

1.17457-1	0.	5.93017-1	4.47344-141R0.		1.79072-1	CARDS 1
0.	6.35149-1	4.92348-1	2.66698-2	40R0.	1.78118-1	CARDS 2
0.	6.01729-1	4.62036-1	-4.6046-2	-3.0130-4	39R0.	CARDS 3
1.98091-1	0.	5.42096-1	3.55784-1	-5.1551-2	9.77606-3	CARDS 4
1.84799-3	38R0.	1.07476-1	0.	2.72225-1	1.87655-1	CARDS 5
-1.1861-2	1.31250-2	239R0.	8.30231-2	0.	2.15364-1	CARDS 6
1.29628-1	-2.3079-2	8.20058-5	39R0.	4.76225-2	0.	CARDS 7
4.30226-1	3.85352-1	2.71298-3	1.74348-4	39R0.	1.36286-3	CARDS 8

0.	5.34937-1	4.43658-1	-7.8001-340R0.	2.74763-4CARDS	9
0.	5.26541-3	-3.5486-3	8.98408-2	5.21320-539R0.	CARDS 10
2.02240-8	0.	2.10348-1	1.77283-1.	8.45940-3	7.50794-5CARDS 11
39R0.	2.29202-8	0.	2.83391-1	2.23228-1	3.29920-2CARDS 12
7.98898-539R0.		2.76280-8	0.	9.90907-1	8.06116-1CARDS 13
5.01626-2	7.23558-539R0.		3.52379-8	0.	6.34218-2CARDS 14
1.29995-1	1.84791-140R0.		4.50927-8	0.	8.28982-1CARDS 15
7.35334-1	-6.6572-240R0.		5.83878-8	0.	-1.7176-2CARDS 16
-3.1839-2	9.36476-240R0.		8.56654-8	0.	-6.9602-3CARDS 17
-4.1536-3	1.46634-240R0.		1.41362-7	0.	-6.8139-4CARDS 18
5.03222-3	-7.8066-340R0.		2.33275-7	0.	1.60629-3CARDS 19
8.45646-3	-5.7138-340R0.		3.84795-7	0.	2.45600-3CARDS 20
9.70702-3	-6.8504-340R0.		6.34222-7	0.	2.76997-3CARDS 21
1.01849-2	-7.2514-340R0.		1.04536-6	0.	2.88601-3CARDS 22
1.03312-2	-7.4155-340R0.		1.72400-6	0.	2.92930-3CARDS 23
1.04125-2	-7.4462-340R0.		2.84289-6	0.	2.94618-3CARDS 24
1.04301-2	-7.4849-340R0.		4.68713-6	0.	2.95377-3CARDS 25
1.04470-2	-7.4867-340R0.		7.72568-6	0.	2.95879-3CARDS 26
1.04578-2	-7.4979-340R0.		1.27343-5	0.	2.96457-3CARDS 27
1.04256-2	-7.5067-340R0.		2.09764-5	0.	2.97312-3CARDS 28
1.04672-2	-7.4738-340R0.		3.45972-5	0.	2.98682-3CARDS 29
1.04283-2	-7.5150-340R0.		5.70901-5	0.	3.00937-3CARDS 30
1.03433-2	-7.4761-340R0.		1.10184-4	0.	3.06246-3CARDS 31
2.95228-3	-7.3910-340R0.		5.53340-244R0.		1.41890-2CARDS 32
4.97310-343R0.		1.87650-2	2.74820-2	5.31450-342R0.	CARDS 33
2.41110-2	3.48300-2	2.70930-2	5.74870-341R0.		3.53180-2CARDS 34
4.60530-2	3.41420-2	2.70740-2	6.30010-340R0.		4.88420-2CARDS 35
6.21410-2	4.46290-2	3.39830-2	2.75130-2	6.98770-339R0.	CARDS 36
8.04270-2	9.08770-2	5.89240-2	4.38250-2	3.43280-2	2.83740-2CARDS 37
7.76900-338R0.		1.47450-1	1.36270-1	8.07130-2	5.51710-2CARDS 38
4.24330-2	3.40630-2	2.86230-2	8.19140-337R0.		3.19510-1CARDS 39
1.94160-1	8.75130-2	5.30450-2	3.61710-2	2.74450-2	2.16170-2CARDS 40
1.78130-2	4.22530-336R0.		4.46280-1	6.85470-2	-3.2480-2CARDS 41
-3.8010-2	-3.5700-2	-3.2230-2	-2.9217-2	-2.6452-2	-2.4181-2CARDS 42
-9.8310-335R0.		3.78180-1	-8.5768-2	-7.6639-2	-3.8576-2CARDS 43
-2.4389-2	-1.7467-2	-1.3243-2	-1.0739-2	-8.9093-3	-7.6295-3CARDS 44
-2.2263-334R0.		4.50950-1	1.65480-240R0.		CARDS 45
P-3 TABLE FOR 0-16 (MAT1124)					
1.17457-1	0.	4.70866-1	3.48836-141R0.	1.79072-1CARDS	1
0.	5.21914-1	3.82356-1	2.03020-340R0.	1.78118-1CARDS	2
0.	4.91580-1	3.39544-1	-3.9376-2	3.97569-339R0.	CARDS 3
1.98091-1	0.	4.74606-1	2.70531-1	-1.9101-2	-2.3671-4CARDS 4
-1.4329-338R0.		1.07476-1	0.	2.70774-1	1.59724-1CARDS 5
6.06336-3	-6.9801-339R0.		8.30231-2	0.	2.34361-1CARDS 6
1.30299-1	3.74383-3	-8.0227-530R0.		4.76225-2	0.
2.94315-1	2.40543-1	2.10389-2	-1.7015-439R0.		1.36286-3CARDS 8
0.	1.99960-1	2.09290-1	6.20070-340R0.		2.74763-4CARDS 9
0.	1.08727-3	-3.0816-3	-1.0610-2	-5.1218-530R0.	CARDS 10
2.02240-8	0.	3.61575-2	6.51667-2	3.97249-3	-7.3352-5CARDS 11
39R0.	2.29202-8	0.	1.31406-1	1.41291-1	-2.8938-2CARDS 12
-7.8367-530R0.		2.76280-8	0.	6.95146-2	1.81144-1CARDS 13
-9.8843-3	-7.1112-539R0.		3.52379-8	0.	-4.4656-2CARDS 14
-7.6776-3	-1.1163-140R0.		4.50927-8	0.	8.90523-2CARDS 15
1.02021-1	-3.6979-240R0.		5.83878-8	0.	2.13782-3CARDS 16
1.50539-3	-1.2968-240R0.		8.56654-8	0.	-1.4192-4CARDS 17
-1.7844-4	6.32370-440R0.		1.41362-7	0.	-7.3705-5CARDS 18
8.84487-6	3.64396-540R0.		2.33275-7	0.	-3.3575-5CARDS 19
9.39393-5	-8.2692-540R0.		3.84795-7	0.	-1.8533-5CARDS 20
1.24806-4	-1.2774-440R0.		6.34232-7	0.	-1.2827-5CARDS 21
1.36196-4	-1.4372-440R0.		1.04536-6	0.	-1.0362-5CARDS 22
1.29841-4	-1.4965-440R0.		1.72400-6	0.	-8.9512-6CARDS 23
1.42000-4	-1.5124-440R0.		2.84289-6	0.	-7.5534-6CARDS 24

1.42421-4	-1.5268-440R0.	4.68713-6	0.	-5.6185-6CARDS	25		
1.42793-4	-1.5281-440R0.	7.72568-6	0.	-2.5486-6CARDS	26		
1.43157-4	-1.5300-440R0.	1.27343-5	0.	2.49701-6CARDS	27		
1.42720-4	-1.5343-440R0.	2.09764-5	0.	1.06964-5CARDS	28		
1.43030-4	-1.5225-440R0.	3.45972-5	0.	2.43902-5CARDS	29		
1.42704-4	-1.5331-440R0.	5.70901-5	0.	4.69118-5CARDS	30		
1.39043-4	-1.5291-440R0.	1.10184-4	0.	1.00006-4CARDS	31		
-1.0178-5	-1.4922-443R0.	5.31380-244R0.		1.40870-2CARDS	32		
4.39030-343R0.		2.68090-2	4.55730-342R0.	CARDS	33		
2.38160-2	3.36920-2	2.55470-2	4.72170-341R0.	3.46980-2CARDS	34		
4.40240-2	3.14910-2	2.42890-2	4.85360-340R0.	4.75990-2CARDS	35		
5.80320-2	3.97070-2	2.90340-2	2.27750-2	4.84080-339R0.	CARDS	36	
7.69750-2	8.16130-2	4.86530-2	3.40740-2	2.53590-2	2.01300-2CARDS	37	
4.33640-338R0.		1.35040-1	1.10030-1	5.54340-2	3.30700-2CARDS	38	
2.29140-2	1.67440-2	1.30100-2	2.09730-337R0.		2.44140-1CARDS	39	
9.50460-2	1.17360-2	-6.6877-3	-1.2535-2	-1.4172-2	-1.4477-2CARDS	40	
-1.4207-2	-7.2412-336R0.		2.57630-1	-8.2154-2	-8.9766-2CARDS	41	
-6.6477-2	-5.2093-2	-4.2150-2	-3.5736-2	-3.0749-2	-2.7087-2CARDS	42	
-9.2345-335R0.		1.23840-1	-9.4283-2	1.12790-2	2.49980-2CARDS	43	
2.26140-2	1.95280-2	1.68050-2	1.48040-2	1.31170-2	1.18040-2CARDS	44	
4.45520-334R0.		4.54110-2	-1.8670-340R0.		CARDS	45	
P-0 TABLE FOR SI (MAT1151)							
3.88401-1	0.	1.7931100	6.68171-141R0.	5.11330-1CARDS	1		
0.	1.8109700	6.23888-1	2.08088-140R0.	5.52963-1CARDS	2		
0.	1.8170900	6.53464-1	2.07964-1	7.58717-239R0.	CARDS	3	
6.11938-1	0.	1.8117500	5.68698-1	2.09099-1	1.01846-1CARDS	4	
1.98772-238R0.		5.21890-1.	0.	1.9438500	5.58709-1CARDS	5	
2.64036-1	6.54680-2	3.78622-2	2.15303-237R0.		2.76133-1CARDS	6	
0.	1.9712300	7.59388-1	3.30855-1	4.04057-2	3.79765-2CARDS	7	
2.97320-2	5.89025-336R0.		1.79839-2	0.	2.2368800CARDS	8	
1.3826100	6.84948-1	1.45565-1	9.24255-2	5.22879-2	1.09684-2CARDS	9	
1.44124-235R0.		8.21668-4	0.	2.3445700	1.4235800CARDS	10	
3.98211-1	1.02291-3	4.95646-2	4.52776-2	1.05006-2	1.44985-2CARDS	11	
2.31264-234R0.		6.70939-4	0.	2.7579300	1.9192100CARDS	12	
3.83228-1	1.94508-1	3.73501-2	5.24906-2	1.97541-2	1.91233-2CARDS	13	
2.48916-2	3.74635-233R0.		6.50000-4	0.	3.2012500CARDS	14	
2.4137300	4.31448-1	1.06492-2	1.47811-1	4.17430-2	4.80952-2CARDS	15	
1.91696-2	2.75378-2	3.42191-2	4.92031-232R0.		6.51323-4CARDS	16	
0.	3.1012300	2.4761300	5.91879-1	2.47787-3	2.32644-1CARDS	17	
1.73688-2	3.67463-2	4.37933-2	2.40648-2	3.28297-2	3.93343-2CARDS	18	
5.45653-231R0.		6.60000-4	0.	3.4429900	2.9485100CARDS	19	
6.03776-1	5.35827-4	1.04345-1	2.72681-1	2.29311-2	5.25749-2CARDS	20	
8.63484-2	4.97143-2	6.41558-2	7.39229-2	9.86953-230R0.	CARDS	21	
6.63307-4	0.	3.2574900	2.8498600	4.93507-1	0.	CARDS	22
1.01360-2	1.96776-1	1.56907-2	2.42755-2	3.51274-2	5.83185-2CARDS	23	
3.73299-2	4.58454-2	5.10064-2	6.57888-229R0.		6.70000-4CARDS	24	
0.	3.4315900	2.9805900	4.06963-1	0.	5.16879-3CARDS	25	
4.91410-2	9.34198-2	3.99387-3	1.52502-2	2.54706-2	2.75083-2CARDS	26	
2.13588-2	2.54335-2	2.76864-2	3.49524-228R0.		6.70000-4CARDS	27	
0.	7.6368500	5.9520500	4.50326-1	2R0.	6.84938-3CARDS	28	
5.41736-2	6.17055-3	8.30627-4	8.70922-3	1.18940-2	1.29339-2CARDS	29	
1.02148-2	1.19344-2	1.28184-2	1.59702-227R0.		9.57270-4CARDS	30	
0.	1.5291600	1.3826200	1.6841300	3R0.	6.69973-3CARDS	31	
5.11486-2	2.97352-3	3.47463-4	6.01360-3	7.66283-3	6.79637-3CARDS	32	
6.23982-3	7.19135-3	7.65006-3	9.44144-326R0.		6.24873-3CARDS	33	
0.	1.5608000	1.4542300	1.45583-1	3R0.	8.29665-5CARDS	34	
1.95861-3	1.93394-2	3.49236-4	8.10509-5	1.04453-3	1.02907-3CARDS	35	
8.54765-4	9.70402-4	1.10715-3	1.16942-3	1.43319-325R0.	CARDS	36	
6.93461-4	0.	1.7019400	1.5624700	1.00325-1	4R0.	CARDS	37
1.48312-4	0.	7.75404-3	7.55110-5	2.24542-5	1.40430-4CARDS	38	
1.24114-4	1.10646-4	1.37500-4	1.56290-4	1.64644-4	2.01258-4CARDS	39	
24R0.	3.49544-4	0.	2.1268300	1.9758400	1.38775-1CARDS	40	

5R0.		5.45764-5	0.	2.58641-3	1.10617-5	0.	CARDS	41	
	2.11594-5	1.25404-5	1.40380-5	1.89615-5	2.15229-5	2.26512-5	CARDS	42	
	2.76620-5	23R0.	5.76010-4	0.	2.1504100	1.9988000	CARDS	43	
	1.50636-1	6R0.	2.00051-5	0.	1.75411-4	4R0.	CARDS	44	
	1.50924-8	5.28888-8	1.46551-7	1.74632-7	23R0.	9.44674-4	CARDS	45	
	0.	2.1507800	1.0992400	1.51034-1	7R0.	7.38724-6	CARDS	46	
32R0.		1.55638-3	0.	2.1513300	1.0989700	1.50594-1	CARDS	47	
8R0.		2.71464-6	31R0.	2.56758-3	0.	2.1523100	CARDS	48	
	1.0000200	1.50800-1	9R0.	9.98838-7	30R0.	4.23508-3	CARDS	49	
	0.	2.1542100	1.0990600	1.50726-1	110R0.	3.66997-7	CARDS	50	
29R0.		6.99133-3	0.	2.1569500	1.0989600	1.50911-1	CARDS	51	
11R0.		1.35070-7	28R0.	1.14646-2	0.	2.1614300	CARDS	52	
	1.0993700	1.50995-1	112R0.	4.97527-8	27R0.	1.89370-2	CARDS	53	
	0.	2.1689400	1.0986900	1.50591-1	113R0.	1.82553-8	CARDS	54	
26R0.		3.12654-2	0.	2.1812600	1.0996700	1.51313-1	CARDS	55	
14R0.		6.77242-9	25R0.	5.16449-2	0.	2.2016400	CARDS	56	
	2.0003800	1.50326-1	140R0.	9.96747-2	0.	2.2496700	CARDS	57	
	2.1500000	1.49618-1	140R0.	5.26300-1	0.	8.89310-1	CARDS	58	
	1.00850-1	141R0.	0.	3.67640-1	0.	1.1689000	2.51210-2	CARDS	59
	9.76910-3	40R0.	0.	3.24960-1	0.	1.1990000	3.32970-2	CARDS	60
	4.92890-2	1.07250-2	30R0.	0.	2.82760-1	0.	1.2511000	CARDS	61
	4.29110-2	6.29830-2	5.01090-2	1.20260-2	33R0.	0.	2.40160-1	CARDS	62
	0.	1.3196000	6.31780-2	8.42370-2	6.45790-2	5.25130-2	2.20000	CARDS	63
	1.38610-2	37R0.	0.	1.87450-1	1.4270000	8.80980-2	CARDS	64	
	1.16220-1	8.72260-2	6.87930-2	5.71850-2	1.65910-2	236R0.	CARDS	65	
	1.25960-1	0.	1.5772000	1.47690-1	1.76260-1	1.22800-1	CARDS	66	
	9.57870-2	7.79430-2	6.62980-2	2.10040-2	35R0.	0.	6.49200-2	CARDS	67
	0.	1.8425000	2.82730-1	2.90060-1	1.09330-1	1.43780-1	CARDS	68	
	1.16990-1	9.82760-2	8.54630-2	2.92030-2	34R0.	0.	2.76910-2	CARDS	69
	0.	2.3913000	7.25220-1	5.80460-1	3.58160-1	2.66240-1	CARDS	70	
	2.12080-1	1.79550-1	1.55030-1	1.37290-1	4.95620-2	33R0.	CARDS	71	
	5.59390-3	0.	3.4147000	1.2968000	8.01110-1	4.26330-1	CARDS	72	
	3.08200-1	2.45140-1	2.02270-1	1.74320-1	1.52220-1	1.35720-1	CARDS	73	
	4.97280-3	32R0.	2.61850-1	0.	5.3422000	4.8200000	CARDS	74	
	2.1123000	8.37240-1	4.88080-1	3.47140-1	2.70430-1	2.19120-1	CARDS	75	
	1.86340-1	1.60900-1	1.42210-1	4.96900-2	31R0.	0.	2.63610-2	CARDS	76
	0.	2.80260+2	1.66470+1	2.60430-1	140R0.	0.	CARDS	77	
		P-1	TAPLE FOR	ST	(MAT1151)				
	3.88401-1	0.	1.0025700	5.79373-1	141R0.	5.11330-1	CARDS	1	
	0.	1.0664200	5.51480-1	4.23533-2	240R0.	5.52963-1	CARDS	2	
	0.	1.0654200	5.30390-1	6.35880-3	-7.5544-3	30R0.	CARDS	3	
	6.11938-1	0.	1.0288800	4.28420-1	-1.7933-2	-2.7502-3	CARDS	4	
39R0.		5.21890-1	0.	9.29942-1	4.15880-1	-1.1483-2	CARDS	5	
40R0.		2.76133-1	0.	7.93954-1	5.45907-1	-7.8272-3	CARDS	6	
40R0.		1.79830-2	0.	7.05984-1	7.20873-1	-2.8085-2	CARDS	7	
40R0.		8.21668-4	0.	7.72235-1	8.43203-1	-3.2803-2	CARDS	8	
40R0.		6.70930-4	0.	9.15140-1	9.07120-1	-7.1790-2	CARDS	9	
40R0.		6.50000-4	0.	1.0495300	1.2278100	-7.2651-2	CARDS	10	
40R0.		6.51323-4	0.	7.75034-1	8.07033-1	-1.7893-1	CARDS	11	
40R0.		6.60000-4	0.	1.2876000	1.2841400	-1.2355-1	CARDS	12	
40R0.		6.63307-4	0.	4.82109-1	6.36143-1	2.80741-3	CARDS	13	
40R0.		6.70000-4	0.	2.39787-1	3.68207-1	-1.5469-1	CARDS	14	
40R0.		6.70000-4	0.	2.59350-1	8.17737-1	-1.2999-1	CARDS	15	
40R0.		9.57270-4	0.	1.13726-2	5.49507-2	-5.5905-1	CARDS	16	
40R0.		6.24787-3	0.	4.34684-2	6.89080-2	-4.4535-2	CARDS	17	
40R0.		6.93461-4	0.	4.14261-2	8.43977-2	-3.1687-2	CARDS	18	
40R0.		3.49544-4	0.	5.12635-2	9.86020-2	-4.3665-2	CARDS	19	
40R0.		5.76010-4	0.	5.20492-2	9.03910-2	-4.7778-2	CARDS	20	
40R0.		9.44674-4	0.	5.24180-2	9.02417-2	-4.7907-2	CARDS	21	
40R0.		1.55638-3	0.	5.30280-2	9.03030-2	-4.7768-2	CARDS	22	
40R0.		2.56758-3	0.	5.40389-2	9.02790-2	-4.7831-2	CARDS	23	
40R0.		4.23508-3	0.	5.57117-2	9.05433-2	-4.7807-2	CARDS	24	

40R0.	6.90133-3	0.	5.84677-2	9.93687-2	-4.7866-2	CARDS 25	
40R0.	1.14646-2	0.	6.29409-2	9.92450-2	-4.7897-2	CARDS 26	
40R0.	1.80370-2	0.	7.04143-2	9.94730-2	-4.7768-2	CARDS 27	
40R0.	3.12654-2	0.	8.27427-2	9.91563-2	-4.7995-2	CARDS 28	
40R0.	5.16440-2	0.	1.03127-1	9.89500-2	-4.7679-2	CARDS 29	
40R0.	9.96747-2	0.	1.51152-1	5.14773-2	-4.7472-2	CARDS 30	
43R0.	9.94660-244R0.		2.49490-2	9.40660-343R0.		CARDS 31	
	3.30450-2	4.88890-2	1.02300-242R0.	4.25410-2	6.23020-2	CARDS 32	
	4.92610-2	1.13520-241R0.		8.30120-2	6.29470-2	CARDS 33	
	5.07720-2	1.28800-240R0.		1.13700-1	8.41270-2	CARDS 34	
	6.56100-2	5.40870-2	1.50660-239R0.	1.44880-1	1.70400-1	CARDS 35	
	1.16040-1	8.91870-2	7.17330-2	6.04900-2	1.83670-2	38R0.	CARDS 36
	2.73340-1	2.72210-1	1.75050-1	1.27010-1	1.01710-1	8.43740-2	CARDS 37
	7.26920-2	2.37230-237R0.		6.63170-1	4.91710-1	2.80390-1	CARDS 38
	1.99300-1	1.53940-1	1.27750-1	1.08590-1	9.50460-2	3.23990-2	CARDS 39
36R0.		1.0912000	5.19000-1	2.00920-1	1.26170-1	9.22790-2	CARDS 40
	7.17300-2	5.94070-2	5.02470-2	4.27330-2	1.41560-2	235R0.	CARDS 41
	1.2116000	2.69540-2	-2.2814-1	-1.7173-1	-1.3263-1	-1.0774-1	CARDS 42
	-8.9695-2	-7.7581-2	-6.7868-2	-6.0553-2	-2.2125-2	34R0.	CARDS 43
	6.45P10-1	-8.6240-240R0.					CARDS 44

P-2 TABLE FOR SJ (MAT1151)

3.88401-1	0.	8.56497-1	4.67022-141R0.		5.11330-1	CARDS 1	
0.	9.39280-1	4.48148-1	-4.1987-340R0.		5.52963-1	CARDS 2	
0.	9.56058-1	3.99620-1	-2.2452-2	5.27282-3	330R0.	CARDS 3	
6.11938-1	0.	9.52060-1	3.33340-1	3.47516-3	2.25528-3	CARDS 4	
39R0.	5.21890-1	0.	8.65227-1	3.26982-1	6.78174-3	CARDS 5	
40R0.	2.76133-1	0.	7.19986-1	4.08034-1	1.63558-2	CARDS 6	
40R0.	1.79830-2	0.	5.80878-1	5.37356-1	3.58190-2	CARDS 7	
40R0.	8.21668-4	0.	5.41772-1	5.09462-1	2.55380-2	CARDS 8	
40R0.	6.70930-4	0.	5.72689-1	5.52762-1	3.14888-2	CARDS 9	
40R0.	6.50000-4	0.	5.91588-1	5.70368-1	1.92562-2	CARDS 10	
40R0.	6.51323-4	0.	5.89176-1	5.62530-1	2.05696-2	CARDS 11	
40R0.	6.60000-4	0.	3.35509-1	3.73178-1	2.59944-2	CARDS 12	
40R0.	6.63307-4	0.	1.79529-1	1.55374-1	-3.8329-2	CARDS 13	
40R0.	6.70000-4	0.	9.75720-4	1.24565-2	2.34920-2	CARDS 14	
40R0.	6.70000-4	0.	5.92782-3	2.51212-2	-1.2150-2	CARDS 15	
40R0.	9.57270-4	0.	1.87004-4	1.69629-3	-1.9863-2	CARDS 16	
40R0.	6.24787-3	0.	6.64897-3	1.43582-3	-2.4665-3	CARDS 17	
40R0.	6.93461-4	0.	1.13241-3	1.96537-3	-1.0347-3	CARDS 18	
40R0.	3.49544-4	0.	8.98208-4	1.98722-3	-1.5264-3	CARDS 19	
40R0.	5.76010-4	0.	1.13070-3	1.09520-3	-1.4385-3	CARDS 20	
40R0.	9.44674-4	0.	1.49937-3	1.99098-3	-1.4406-3	CARDS 21	
40R0.	1.55638-3	0.	2.11106-3	1.09412-3	-1.4362-3	CARDS 22	
40R0.	2.56758-3	0.	3.12225-3	1.09340-3	-1.4394-3	CARDS 23	
40R0.	4.23508-3	0.	4.78981-3	1.09523-3	-1.4387-3	CARDS 24	
40R0.	6.90133-3	0.	7.54605-3	1.09665-3	-1.4405-3	CARDS 25	
40R0.	1.14646-2	0.	1.20193-2	1.09012-3	-1.4419-3	CARDS 26	
40R0.	1.89370-2	0.	1.94917-2	1.09810-3	-1.4353-3	CARDS 27	
40R0.	3.12654-2	0.	3.18201-2	1.09080-3	-1.4433-3	CARDS 28	
40R0.	5.16440-2	0.	5.21996-2	1.07351-3	-1.4360-3	CARDS 29	
40R0.	9.96747-2	0.	1.00229-1	5.54734-4	-1.4187-3	CARDS 30	
43R0.	9.68340-244R0.		2.48300-2	8.70280-343R0.		CARDS 31	
	3.28390-2	4.80940-2	9.30040-342R0.	4.21940-2	6.09530-2	CARDS 32	
	4.74120-2	1.00600-241R0.		8.05930-2	5.97480-2	CARDS 33	
	4.73700-2	1.10250-240R0.		1.08750-1	7.81010-2	CARDS 34	
	5.94700-2	4.81480-2	1.22280-239R0.	1.40750-1	1.59030-1	CARDS 35	
	1.03120-1	7.66930-2	6.00730-2	4.96540-2	1.35960-2	38R0.	CARDS 36
	2.58040-1	2.38480-1	1.41250-1	9.65500-2	7.42570-2	5.96090-2	CARDS 37
	5.00900-2	1.43350-237R0.		5.59140-1	3.39770-1	1.53150-1	CARDS 38
	9.28290-2	6.32990-2	4.80290-2	3.78310-2	3.11720-2	7.39430-3	CARDS 39
36P0.		7.80990-1	1.19960-1	-5.6841-2	-6.6518-2	-6.2475-2	CARDS 40
	-5.6402-2.	-5.1129-2	-4.6292-2	-4.2316-2	-1.7204-2	35R0.	CARDS 41

6.61820-1	-1.5000-1	-1.3412-1	-6.7508-2	-4.2680-2	-3.0568-2	CARDS	42
-2.3175-2	-1.8793-2	-1.5590-2	-1.3352-2	-3.8960-3	34R0.	CARDS	43
7.89170-1	7.89580-2	40R0.				CARDS	44
P-3 TABLE FOR SI (MAT11511)							
3.88401-1	0.	7.59716-1	3.79810-1	141R0.	5.11330-1	CARDS	1
0.	8.52167-1	3.57717-1	-5.5386-3	340R0.	5.52963-1	CARDS	2
0.	8.73822-1	3.23399-1	-1.5223-2	-2.9558-3	339R0.	CARDS	3
6.11938-1	0.	8.76134-1	2.67007-1	-2.5391-3	-1.6567-3	CARDS	4
39R0.	5.21890-1	0.	7.58883-1	2.42447-1	-2.8111-3	CARDS	5
40R0.	2.76133-1	0.	5.08346-1	2.52781-1	-5.4536-3	CARDS	6
40R0.	1.79839-2	0.	2.30260-1	2.35656-1	-2.0568-2	CARDS	7
40R0.	8.21668-4	0.	2.39663-1	2.52667-1	-2.3379-2	CARDS	8
40R0.	6.70939-4	0.	2.27044-1	2.56946-1	-1.3825-2	CARDS	9
40R0.	6.50000-4	0.	1.51425-1	1.64631-1	-3.0572-2	CARDS	10
40R0.	6.51323-4	0.	2.24015-2	8.44400-2	-1.2856-2	CARDS	11
40R0.	6.60000-4	0.	1.71901-2	4.18361-2	-6.1689-2	CARDS	12
40R0.	6.63307-4	0.	-1.8267-3	1.14886-2	-2.5306-2	CARDS	13
40R0.	6.70000-4	0.	8.00220-4	4.59536-4	-1.2978-2	CARDS	14
40R0.	6.70000-4	0.	7.00014-4	-1.0682-2	-3.2931-4	CARDS	15
40R0.	9.57270-4	0.	9.47161-4	-1.8130-5	1.07130-2	CARDS	16
40R0.	6.24787-3	0.	6.24787-3	1.44343-5	8.02179-5	CARDS	17
40R0.	6.93461-4	0.	6.93461-4	2.57059-5	-1.4434-5	CARDS	18
40R0.	3.49544-4	0.	3.49544-4	1.92989-5	-2.5705-5	CARDS	19
40R0.	5.76010-4	0.	5.76010-4	1.92946-5	-1.9298-5	CARDS	20
40R0.	9.44674-4	0.	9.44674-4	1.92347-5	-1.9294-5	CARDS	21
40R0.	1.55638-3	0.	1.55638-3	1.92984-5	-1.9234-5	CARDS	22
40R0.	2.56758-3	0.	2.56758-3	1.92889-5	-1.9298-5	CARDS	23
40R0.	4.23508-3	0.	4.23508-3	1.93126-5	-1.9288-5	CARDS	24
40R0.	6.99133-3	0.	6.99133-3	1.93427-5	-1.9312-5	CARDS	25
40R0.	1.14646-2	0.	1.14646-2	1.92071-5	-1.9342-5	CARDS	26
40R0.	1.89370-2	0.	1.89370-2	1.93334-5	-1.9207-5	CARDS	27
40R0.	3.12654-2	0.	3.12654-2	1.92737-5	-1.9333-5	CARDS	28
40R0.	5.16449-2	0.	5.16449-2	1.88546-5	-1.9273-5	CARDS	29
40R0.	9.96747-2	0.	9.96747-2	0.	-1.8854-5	CARDS	30
43R0.	9.29910-2	244R0.	2.46530-2	7.69880-3	343R0.	CARDS	31
3.25320-2	4.69160-2	7.97530-3	342R0.	4.16780-2	5.89620-2	CARDS	32
4.47070-2	8.26300-3	341R0.	6.07210-2	7.70430-2	5.51090-2	CARDS	33
4.25060-2	8.49380-3	340R0.	8.32980-2	1.01560-1	6.94870-2	CARDS	34
5.08100-2	3.98570-2	8.47140-3	339R0.	1.34710-1	1.42820-1	CARDS	35
8.51430-2	5.96290-2	4.43790-2	3.52270-2	7.58880-3	338R0.	CARDS	36
2.36320-1	1.92550-1	9.70090-2	5.78720-2	4.01000-2	2.93030-2	CARDS	37
2.27670-2	3.67040-3	337R0.	4.27250-1	1.66330-1	2.05390-2	CARDS	38
-1.1704-2	-2.1937-2	-2.4801-2	-2.5335-2	-2.4852-2	-1.2672-2	CARDS	39
36R0.	4.50850-1	-1.4377-1	-1.5709-1	-1.1633-1	-9.1162-2	CARDS	40
-7.3763-2	-6.2529-2	-5.3811-2	-4.7403-2	-1.6160-2	235R0.	CARDS	41
2.16720-1	-1.6500-1	1.97380-2	4.37470-2	3.95740-2	3.41740-2	CARDS	42
2.94090-2	2.59070-2	2.29540-2	2.06570-2	7.79660-3	34R0.	CARDS	43
7.94690-2	-3.2672-2	340R0.				CARDS	44
P-0 TABLE FOR AL (MAT1135)							
1.99638-1	0.	1.5612000	6.33276-1	141R0.	2.27312-1	CARDS	1
0.	1.7004200	6.03474-1	1.89755-1	140R0.	2.31193-1	CARDS	2
0.	1.7448600	6.42241-1	1.92597-1	5.24840-2	339R0.	CARDS	3
2.09404-1	0.	1.7373800	6.32866-1	1.53546-1	7.24482-2	CARDS	4
3.93499-2	338R0.	1.49105-1	0.	1.7600600	6.91605-1	CARDS	5
1.67048-1	8.26147-2	4.10125-2	8.44242-2	337R0.	7.61863-2	CARDS	6
0.	1.9532300	8.88003-1	2.19657-1	8.56531-2	3.12970-2	CARDS	7
9.29560-2	1.20745-2	236R0.	1.78176-2	0.	2.2591500	CARDS	8
1.3805400	4.54432-1	1.92083-1	8.56721-2	5.46124-2	7.18335-2	CARDS	9
8.64169-2	235R0.	3.72530-3	0.	2.5402500	1.5707400	CARDS	10
3.15059-1	1.27195-1	7.80560-2	5.94035-2	5.64933-2	7.00332-2	CARDS	11
7.65850-2	234R0.	7.88863-4	0.	2.9691200	2.0909300	CARDS	12
4.70343-1	1.45042-1	8.23940-2	7.06684-2	7.40102-2	7.10059-2	CARDS	13

9.55880-2	7.30284-233R0.	2.53419-4	0.	2.9936900CARDS	14		
2.1586800	4.77817-1	1.56047-1	1.01797-1	8.01859-2	7.68256-2CARDS	15	
8.28782-2	7.67346-2	8.86272-2	5.91915-232R0.		1.40636-4CARDS	16	
0.	3.0665100	2.2082400	5.25300-1	1.56467-1	1.29466-2CARDS	17	
9.83348-2	7.69632-2	6.91847-2	8.32655-2	7.63474-2	8.01871-2CARDS	18	
4.03041-221R0.		1.58876-4	0.	3.3141100	2.7882600CARDS	19	
5.73244-1	2.19122-1	1.26140-1	1.19703-1	1.25685-1	8.14209-2CARDS	20	
1.08536-1	1.23527-1	1.20627-1	1.00505-1	5.05982-230R0.	CARDS	21	
3.22729-4	0.	3.9520800	3.5368900	4.23779-1	1.51988-1CARDS	22	
9.03318-2	1.09254-2	1.31636-1	5.22567-2	4.30694-2	5.77780-2CARDS	23	
7.44069-2	7.44706-2	3.70429-2	2.32388-229R0.		7.67658-4CARDS	24	
0.	4.0352000	3.5734000	4.14854-1	9.50977-3	1.22066-1CARDS	25	
0.	5.66413-2	4.42414-2	1.29625-2	1.87819-2	2.84067-2CARDS	26	
3.38944-2	3.75270-2	1.53253-2	1.03580-228R0.		8.25237-4CARDS	27	
0.	4.2687700	3.6400200	4.61033-1	0.	3.44738-2CARDS	28	
1.09287-2	0.	2.85013-2	1.88617-2	5.70664-3	8.65893-2CARDS	29	
1.12504-2	1.53723-2	1.67664-2	3.50485-3	3.78265-327R0.	CARDS	30	
2.28908-3	0.	6.4272800	6.2974000	6.27921-1 2R0.	CARDS	31	
4.10092-2 2R0.		1.77372-2	1.05087-2	3.31679-2	5.13564-2CARDS	32	
5.84723-3	8.79741-3	1.07920-2	1.43229-3	1.77946-326R0.	CARDS	33	
6.10613-3	0.	5.6989100	5.6515700	1.27593-1 3R0.	CARDS	34	
1.18667-2 2R0.		2.72502-3	1.41820-3	5.61100-4	7.21272-4CARDS	35	
9.53916-4	1.13200-3	1.51380-3	1.97841-4	1.89843-425R0.	CARDS	36	
3.09061-3	0.	1.1079700	1.0087000	4.12296-2 4R0.	CARDS	37	
3.47213-3 2R0.		4.11113-4	7.84836-5	6.86099-5	8.27178-5CARDS	38	
1.02740-4	4.79560-5	7.85974-526R0.		1.29231-2	0.	CARDS	39
1.8128800	1.6914900	9.61837-2 5R0.		1.10932-3 2R0.		CARDS	40
3.25794-531R0.		2.87001-3 0.		1.5245400	1.4101600CARDS	41	
1.08468-1 6R0.		3.54045-438R0.		2.01292-3	0.	CARDS	42
1.5229700	1.4104900	1.11514-1 7R0.		1.33892-532R0.		CARDS	43
2.70182-3	0.	1.5167400	1.4037000	1.10468-140R0.		CARDS	44
3.78552-3	0.	1.5164600	1.4022100	1.10335-140R0.		CARDS	45
6.11637-3	0.	1.5241800	1.4071300	1.10463-140R0.		CARDS	46
1.00927-2	0.	1.5306600	1.4095600	1.10930-140R0.		CARDS	47
1.66277-2	0.	1.5326100	1.4057300	1.11025-140R0.		CARDS	48
2.73579-2	0.	1.5395700	1.4016000	1.10249-140R0.		CARDS	49
4.51144-2	0.	1.5562600	1.4012800	1.10608-140R0.		CARDS	50
7.45290-2	0.	1.5855500	1.4016700	1.09865-140R0.		CARDS	51
1.43843-1	0.	1.6548600	1.5110200	1.09348-140R0.		CARDS	52
4.55870-1	0.	7.92960-1	9.36470-225R0.		4.06700-4CARDS	53	
1.09000-2	2.01000-2	1.88000-2	8.96000-311R0.		3.18110-1CARDS	54	
0.	1.0622000	2.33230-2	0.07130-325R0.		9.42000-3CARDS	55	
3.98000-2	3.70000-2	3.09000-2	1.41000-210R0.		2.81000-1CARDS	56	
0.	1.0926000	3.09140-2	4.57680-2	9.95240-3	2.29000-1CARDS	57	
2.17000-2	1.31000-2	7.97000-3	4.84000-3	2.01000-3	1.78000-3CARDS	58	
1.11000-3	7.90000-4	5.92000-4	8.50000-4	4.47000-3	9.08000-4CARDS	59	
1.76000-3	6.63000-4	2.42000-4	2.26000-4	9.76000-5	4.62000-5CARDS	60	
4.14000-5	4.30000-5	3.64000-5	2.73000-5	1.92000-5	1.71000-3CARDS	61	
4.01000-2	6.78000-2	6.25000-2	5.46000-2	2.53000-2	0R0.	CARDS	62
2.45270-1	0.	1.1435000	3.98400-2	5.84840-2	4.66140-2CARDS	63	
1.11670-2	1.03000-1	9.80000-3	5.92000-3	3.60000-3	2.18000-3CARDS	64	
1.31000-3	8.03000-4	5.00000-4	3.56000-4	2.67000-4	3.83000-4CARDS	65	
2.02000-3	4.10000-4	7.95000-4	2.99000-4	1.09000-4	1.02000-4CARDS	66	
4.40000-5	2.08000-5	1.87000-5	1.94000-5	1.64000-5	1.23000-5CARDS	67	
8.66000-6	1.78000-2	8.96000-2	2R1.03000-1	9.13000-2	4.24000-2CARDS	68	
RR0.	2.07450-1	0.	1.2098000	5.85560-2	7.82200-2CARDS	69	
5.99660-2	4.87620-2	1.28710-2	8.58000-2	8.14000-3	4.92000-3CARDS	70	
2.99000-3	1.81000-3	1.09000-3	6.67000-4	4.16000-4	2.96000-4CARDS	71	
2.22000-4	3.18000-4	1.68000-4	3.40000-4	6.60000-4	2.48000-4CARDS	72	
9.06000-5	8.48000-5	3.66000-5	1.73000-5	1.55000-5	1.61000-5CARDS	73	
1.36000-5	1.02000-5	4.83000-4	6.31000-2	1.28000-1	1.48000-1CARDS	74	
1.58000-1	1.37000-1	6.48000-2	7R0.	1.61800-1	0.	CARDS	75

1.3128000	8.17920-2	1.07920-1	3.09960-2	6.38800-2	5.31000-2CARDS	76
1.54060-2	3.08000-1	2.93000-2	1.77000-2	1.07000-2	6.52000-2CARDS	77
3.92000-3	2.40000-3	1.49000-3	1.06000-3	7.97000-4	1.14000-3CARDS	78
6.03000-3	1.22000-3	2.37000-3	8.93000-4	3.26000-4	3.05000-4CARDS	79
1.31000-4	6.22000-5	5.58000-5	5.79000-5	4.00000-5	3.68000-5CARDS	80
2.19000-2	1.36000-1	1.54000-1	1.88000-1	2.06000-1	1.84000-1CARDS	81
1.04000-1	6R0.	1.08590-1	0.	1.4562000	1.37120-1CARDS	82
1.63670-1	1.14030-1	8.89450-2	7.23760-2	6.15620-2	1.95040-2CARDS	83
2.40000-1	2.27000-2	1.37000-2	8.34000-3	5.07000-3	3.04000-3CARDS	84
1.86000-3	1.16000-3	8.27000-4	6.19000-4	8.90000-4	4.68000-3CARDS	85
9.51000-4	1.85000-3	5.94000-4	2.53000-4	2.37000-4	1.02000-4CARDS	86
4.84000-5	4.34000-5	4.50000-5	3.81000-5	2.58000-2	1.48000-1CARDS	87
2.10000-1	2.35000-1	2.90000-1	3.01000-1	2.68000-1	1.60000-1CARDS	88
5R0.	5.58520-2	0.	1.7064000	2.62490-1	2.69340-1CARDS	89
1.79530-1	1.33510-1	1.08640-1	9.12560-2	7.93590-2	2.71170-2CARDS	90
2.41000-1	2.28000-2	1.38000-2	8.37000-3	5.08000-3	3.06000-3CARDS	91
1.87000-3	1.17000-3	8.30000-4	6.22000-4	8.93000-4	4.70000-3CARDS	92
9.55000-4	1.85000-3	6.97000-4	2.54000-4	2.38000-4	1.03000-4CARDS	93
4.85000-5	4.35000-5	4.52000-5	1.21000-1	2.50000-1	3.34000-1CARDS	94
3.85000-1	4.11000-1	4.99000-1	4.92000-1	4.32000-1	2.70000-1CARDS	95
4R0.	2.36390-2	0.	2.2182000	6.73270-1	5.38990-1CARDS	96
3.32580-1	2.47230-1	1.96930-1	1.66720-1	1.43960-1	1.27480-1CARDS	97
4.60210-2	8.63000-2	8.19000-3	4.94000-3	3.00000-3	1.82000-3CARDS	98
1.10000-3	6.71000-4	4.18000-4	2.98000-4	2.23000-4	3.20000-4CARDS	99
1.69000-3	3.42000-4	6.64000-4	2.50000-4	9.11000-5	8.53000-5CARDS	100
3.68000-5	4.69000-2	1.92000-1	2.12000-1	1.98000-1	2.53000-1CARDS	101
3.02000-1	3.20000-1	3.51000-1	4.05000-1	4.30000-1	4.55000-1CARDS	102
4.76000-1	3R0.	4.18520-3	0.	3.1693000	1.2037000CARDS	103
7.43890-1	3.95870-1	2.86180-1	2.27630-1	1.87820-1	1.61870-1CARDS	104
1.41350-1	1.26000-1	4.61760-2	7.98000-2	7.57000-3	4.57000-3CARDS	105
2.78000-3	1.69000-3	1.01000-3	6.21000-4	3.87000-4	2.75000-4CARDS	106
2.06000-4	2.96000-4	1.56000-3	3.17000-4	6.15000-4	2.31000-4CARDS	107
8.43000-5	7.89000-5	3.40000-5	5.70000-2	9.31000-2	9.76000-2CARDS	108
9.91000-2	9.57000-2	1.17000-1	1.40000-1	1.76000-1	1.87000-1CARDS	109
1.56000-1	1.25000-1	9.27000-2	2R0.	1.96630-1	0. CARDS	110
4.9045000	4.4661000	1.9614000	7.77440-1	4.53210-1	3.22340-1CARDS	111
2.51120-1	2.07460-1	1.73030-1	1.49410-1	1.32050-1	4.61490-2CARDS	112
1.76000-3	1.67000-4	1.01000-4	6.14000-5	3.73000-5	2.24000-5CARDS	113
1.37000-5	8.54000-6	6.08000-6	4.56000-6	6.55000-6	3.45000-6CARDS	114
7.00000-6	1.36000-5	5.11000-6	1.86000-6	1.74000-6	7.52000-7CARDS	115
1.45000-3	5.95000-3	6.56000-3	6.13000-3	6.23000-3	6.61000-3CARDS	116
7.37000-3	9.53000-3	1.11000-2	1.07000-2	1.16000-2	3.31000-2CARDS	117
0.	1.93170+2	0.	2.07900+2	1.47260+1	2.41830-1CARDS	118
10R0.	2.13000-1	2.02000-2	1.22000-2	7.41000-3	4.50000-3CARDS	119
2.70000-3	1.65000-3	1.03000-3	7.34000-4	5.50000-4	7.90000-4CARDS	120
4.16000-3	8.44000-4	1.64000-3	6.16000-4	2.25000-4	2.10000-4CARDS	121
9.07000-5	4.29000-5	3.85000-5	4.00000-5	3.38000-5	2.54000-5CARDS	122
1.94000-5	1.34000-4	3.29000-4	5.25000-4	5.99000-4	1.41000-5CARDS	123
8.73000-3					CARDS	124

P-1 TABLE FOR AL (MAT1135)

1.99638-1	0.	7.92189-1	5.55420-141R0.	2.27312-1CARDS	1	
0.	7.74974-1	5.39270-1	4.37553-240R0.	2.31193-1CARDS	2	
0.	7.54295-1	5.34860-1	1.10453-2	-6.6241-339R0.	CARDS 3	
2.09404-1	0.	6.82338-1	4.84527-1	-1.1758-2	-2.6533-3CARDS	4
39R0.	1.49105-1	0.	6.36213-1	5.07230-1	-1.1592-2CARDS	5
40R0.	7.61863-2	0.	6.63346-1	6.16143-1	-2.0122-2CARDS	6
40R0.	1.78176-2	0.	8.22317-1	7.97567-1	-2.8983-2CARDS	7
40R0.	3.72530-3	0.	9.11119-1	9.31583-1	6.93257-3CARDS	8
40R0.	7.88863-4	0.	1.2465500	1.2386700	-2.4189-2CARDS	9
40R0.	2.53419-4	0.	1.0251400	1.0577200	7.08963-3CARDS	10
40R0.	1.40626-4	0.	1.0074000	1.0621000	-3.2134-2CARDS	11
40R0.	1.58876-4	0.	1.0637700	1.1032000	-5.4844-2CARDS	12

40R0.	3.32729-4	0.	9.64095-1	1.0610300	-3.9586-2	CARDS 13	
40R0.	7.67658-4	0.	5.62223-1	6.74800-1	-9.7271-2	CARDS 14	
40R0.	8.25237-4	0.	3.05403-1	5.26047-1	-1.1334-1	CARDS 15	
40R0.	2.28908-3	0.	2.84385-1	3.25756-1	-2.2146-1	CARDS 16	
40R0.	6.10613-3	0.	1.81844-1	1.89558-1	-4.3660-2	CARDS 17	
40R0.	3.09061-3	0.	3.31465-2	6.02370-2	-1.3820-2	CARDS 18	
40R0.	1.29221-2	0.	6.36838-2	8.49950-2	-3.0181-2	CARDS 19	
40R0.	2.87001-3	0.	4.13067-2	7.37273-2	-3.4234-2	CARDS 20	
40R0.	2.01292-3	0.	4.01076-2	7.30610-2	-3.5290-2	CARDS 21	
40R0.	2.70182-3	0.	4.05038-2	7.27243-2	-3.4966-2	CARDS 22	
40R0.	3.78552-3	0.	4.15102-2	7.26823-2	-3.4922-2	CARDS 23	
40R0.	6.11637-3	0.	4.29590-2	7.20517-2	-3.4957-2	CARDS 24	
40R0.	1.00927-2	0.	4.79920-2	7.30397-2	-3.5109-2	CARDS 25	
40R0.	1.66277-2	0.	5.44107-2	7.26837-2	-3.5140-2	CARDS 26	
40R0.	2.73570-2	0.	6.50459-2	7.26993-2	-3.4900-2	CARDS 27	
40R0.	4.51144-2	0.	8.27754-2	7.24337-2	-3.5011-2	CARDS 28	
40R0.	7.45299-2	0.	1.12188-1	7.22807-2	-3.4772-2	CARDS 29	
40R0.	1.43843-1	0.	1.81501-1	3.76580-2	-3.4622-2	CARDS 30	
43R0.	9.23620-244R0.		2.31670-2	8.73470-343R0.		CARDS 31	
	3.06850-2	4.53970-2	9.50770-342R0.	3.95030-2	5.78520-2	CARDS 32	
	4.57430-2	1.05410-241R0.		7.70820-2	5.84510-2	CARDS 33	
	4.71450-2	1.19600-240R0.		1.05570-1	7.81180-2	CARDS 34	
	6.09230-2	5.02230-2	1.39900-239R0.	1.34530-1	1.58230-1	CARDS 35	
	1.07750-1	8.28170-2	6.66090-2	5.61700-2	1.70550-2	CARDS 36	
	2.53810-1	2.52760-1	1.62550-1	1.17940-1	9.44490-2	7.83470-2	CARDS 37
	6.75000-2	2.20290-237R0.		6.15810-1	4.56590-1	2.60360-1	CARDS 38
	1.85060-1	1.42950-1	1.18630-1	1.00830-1	8.82570-2	3.00850-2	CARDS 39
36R0.		1.0133000	4.73570-1	1.86570-1	1.17160-1	8.56870-2	CARDS 40
	6.66070-2	5.51630-2	4.66580-2	4.06090-2	1.31450-2	35R0.	CARDS 41
	1.1250000	2.50790-2	-2.1185-1	-1.5947-1	-1.2316-1	-1.0005-1	CARDS 42
	-8.3289-2	-7.2039-2	-6.3020-2	-5.6228-2	-2.0544-2	34R0.	CARDS 43
	5.99680-1	-8.0088-240R0.					CARDS 44

P-2 TABLE FOR AL (MAT1135)

1.99638-1	0.	6.54246-1	4.54010-141R0.		2.27312-1	CARDS 1
0.	6.47832-1	4.45144-1	-2.0932-240R0.		2.31193-1	CARDS 2
0.	6.38924-1	4.07688-1	-2.6641-2	3.69154-3	30R0.	CARDS 3
2.09404-1	0.	5.91487-1	3.71918-1	4.27134-5	2.01720-3	CARDS 4
39R0.	1.49105-1	0.	5.68972-1	3.93750-1	1.01654-2	CARDS 5
40R0.	7.61863-2	0.	5.79776-1	4.64478-1	2.61166-2	CARDS 6
40R0.	1.78176-2	0.	5.13237-1	4.90126-1	3.91120-2	CARDS 7
40R0.	3.72530-3	0.	5.04069-1	4.84998-1	5.29372-3	CARDS 8
40R0.	7.88862-4	0.	6.23184-1	6.16752-1	1.53458-2	CARDS 9
40R0.	2.53410-4	0.	4.33324-1	4.35416-1	5.64314-3	CARDS 10
40R0.	1.40636-4	0.	3.57503-1	3.91520-1	-2.2458-2	CARDS 11
40R0.	1.58876-4	0.	3.21763-1	3.53976-1	-3.4157-2	CARDS 12
40R0.	3.22729-4	0.	2.29796-1	2.51318-1	-3.2371-2	CARDS 13
40R0.	7.67658-4	0.	8.77027-2	1.11293-1	-2.1854-2	CARDS 14
40R0.	8.25237-4	0.	3.56667-2	1.96093-2	-2.4358-2	CARDS 15
40R0.	2.28908-3	0.	2.46955-2	2.08660-2	1.52321-2	CARDS 16
40R0.	6.10613-3	0.	1.28491-2	6.48316-3	1.54038-3	CARDS 17
40R0.	3.09061-3	0.	4.01114-3	1.93785-3	2.59816-4	CARDS 18
40R0.	1.29231-2	0.	8.34784-3	-3.4459-3	-1.0173-3	CARDS 19
40R0.	2.87001-3	0.	3.38397-3	1.62308-3	-1.1293-3	CARDS 20
40R0.	2.01292-3	0.	2.47159-3	1.55472-3	-1.1091-3	CARDS 21
40R0.	2.70182-3	0.	3.13811-3	1.53242-3	-1.0960-3	CARDS 22
40R0.	3.78552-3	0.	4.21398-3	1.52886-3	-1.0961-3	CARDS 23
40R0.	6.11637-3	0.	6.54361-3	1.53049-3	-1.1003-3	CARDS 24
40R0.	1.00927-2	0.	1.05196-2	1.52660-3	-1.1032-3	CARDS 25
40R0.	1.66277-2	0.	1.70530-2	1.51751-3	-1.0996-3	CARDS 26
40R0.	2.73570-2	0.	2.77820-2	1.52158-3	-1.0922-3	CARDS 27
40R0.	4.51144-2	0.	4.55381-2	1.51600-3	-1.0975-3	CARDS 28
40R0.	7.45299-2	0.	7.49536-2	1.50288-3	-1.0922-3	CARDS 29

40R0.	1.43842-1	0.	1.44266-1	4.23674-4	-1.0792-3CARDS	30
43R0.	8.99170-244R0.		2.30560-2	8.08120-343R0.	CARDS	31
3.04930-2	4.46590-2	8.63610-342R0.		3.01800-2	5.65990-2CARDS	32
4.40260-2	9.34160-341R0.		5.73910-2	7.48370-2	5.54810-2CARDS	33
4.30950-2	1.02380-240R0.		7.93680-2	1.00980-1	7.25220-2CARDS	34
5.52220-2	4.47090-2	1.13550-239R0.		1.30690-1	1.47670-1CARDS	35
9.57510-2	7.12150-2	5.57820-2	4.61070-2	1.26250-238R0.	CARDS	36
2.39610-1	2.21440-1	1.31160-1	8.96530-2	6.89530-2	5.53520-2CARDS	37
4.65120-2	1.33110-237R0.		5.19200-1	3.15520-1	1.42210-1CARDS	38
8.61980-2	5.87780-2	4.45990-2	3.51280-2	2.89450-2	6.86610-3CARDS	39
36R0.	7.25200-1	1.11390-1	-5.2781-2	-6.1767-2	-5.8013-2CARDS	40
-5.2373-2	-4.7477-2	-4.2985-2	-3.9294-2	-1.5975-235R0.	CARDS	41
6.14550-1	-1.3937-1	-1.2454-1	-6.2686-2	-3.9632-2	-2.8384-2CARDS	42
-2.1520-2	-1.7451-2	-1.4476-2	-1.2398-2	-3.6178-334R0.	CARDS	43
7.32800-1	2.68900-240R0.				CARDS	44

P-3 TABLE FOR AL (MAT1135)

1.99638-1	0.	5.69859-1	3.70483-141R0.		2.27312-1CARDS	1
0.	5.73922-1	3.57870-1	8.28497-440R0.		2.31193-1CARDS	2
0.	5.59626-1	3.28719-1	-0.9704-3	-1.0900-339R0.	CARDS	3
2.09404-1	0.	4.95821-1	2.91501-1	-2.8563-4	-1.2978-3CARDS	4
39R0.	1.49105-1	0.	4.16539-1	2.80813-1	-5.0848-3CARDS	5
40R0.	7.61862-2	0.	3.48086-1	2.94014-1	-1.3370-2CARDS	6
40R0.	1.78176-2	0.	2.17617-1	2.19507-1	-2.2115-2CARDS	7
40R0.	3.72530-3	0.	1.53336-1	1.85823-1	-1.9708-2CARDS	8
40R0.	7.88863-4	0.	1.34163-1	1.00983-1	-3.6212-2CARDS	9
40R0.	2.53419-4	0.	7.71066-2	1.11550-1	-5.7608-2CARDS	10
40R0.	1.40636-4	0.	5.00392-2	8.38161-2	-3.4696-2CARDS	11
40R0.	1.58876-4	0.	3.56719-2	5.54720-2	-3.3917-2CARDS	12
40R0.	3.32729-4	0.	1.63258-2	1.02871-2	-1.9959-2CARDS	13
40R0.	7.67658-4	0.	5.29719-3	8.21543-3	-3.2940-2CARDS	14
40R0.	8.25237-4	0.	2.56425-3	3.55466-3	-3.6850-2CARDS	15
40R0.	2.28908-3	0.	3.65527-3	2.03949-3	-1.8156-2CARDS	16
40R0.	6.10613-3	0.	5.50135-3	-4.3082-4	-6.7329-4CARDS	17
40R0.	3.09061-3	0.	3.06972-3	1.04372-4	-1.7395-4CARDS	18
40R0.	1.29231-2	0.	1.59967-2	3.09287-3	-1.2525-4CARDS	19
40R0.	2.87001-3	0.	2.87177-3	1.82220-5	-1.9255-5CARDS	20
40R0.	2.01292-3	0.	2.01179-3	1.43286-5	-1.6457-5CARDS	21
40R0.	2.70182-3	0.	2.69961-3	1.29996-5	-1.5458-5CARDS	22
40R0.	3.78552-3	0.	3.78292-3	1.26195-5	-1.5208-5CARDS	23
40R0.	6.11637-3	0.	6.11361-3	1.24273-5	-1.5221-5CARDS	24
40R0.	1.00927-2	0.	1.00899-2	1.22234-5	-1.5180-5CARDS	25
40R0.	1.66277-2	0.	1.66249-2	1.21195-5	-1.5044-5CARDS	26
40R0.	2.73570-2	0.	2.73551-2	1.22057-5	-1.4938-5CARDS	27
40R0.	4.51144-2	0.	4.51116-2	1.21914-5	-1.5040-5CARDS	28
40R0.	7.45290-2	0.	7.45271-2	1.18727-5	-1.5000-5CARDS	29
40R0.	1.43842-1	0.	1.43840-1	-2.8074-6	-1.4680-5CARDS	30
43R0.	8.63490-244R0.		2.28920-2	7.14890-343R0.	CARDS	31
3.02080-2	4.35650-2	7.40570-342R0.		3.87010-2	5.47500-2CARDS	32
4.15140-2	7.67280-341R0.		5.63840-2	7.15400-2	5.11730-2CARDS	33
3.94700-2	7.88710-340R0.		7.73480-2	9.43030-2	6.45230-2CARDS	34
4.71810-2	3.70100-2	7.86630-339R0.		1.25080-1	1.32620-1CARDS	35
7.90620-2	5.53700-2	4.12090-2	3.27110-2	7.04670-338R0.	CARDS	36
2.19440-1	1.78800-1	9.00800-2	5.37380-2	3.72360-2	2.72090-2CARDS	37
2.11410-2	3.40820-337R0.		3.96730-1	1.54450-1	1.90720-2CARDS	38
-1.0868-2	-2.0370-2	-2.3030-2	-2.3525-2	-2.3086-2	-1.1767-2CARDS	39
36R0.	4.18650-1	-1.3350-1	-1.4587-1	-1.0803-1	-8.4651-2CARDS	40
-6.8494-2	-5.8071-2	-4.9967-2	-4.4017-2	-1.5006-235R0.	CARDS	41
2.01240-1	-1.5321-1	1.83280-2	4.06220-2	3.67470-2	3.17330-2CARDS	42
2.73090-2	2.40560-2	2.13150-2	1.91820-2	7.23970-334R0.	CARDS	43
7.37930-2	-3.0330-340R0.				CARDS	44

P-0 TABLE FOR C (MAT1165)

1.34526-1	0.	1.1493000	8.70250-241R0.		1.43937-1CARDS	1
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0.	1.0832600	4.38104-1	5.85085-140R0.	1.62585-1CARDS	2
0.	1.2101200	5.52357-1	1.73552-1	1.04876-139R0.	CARDS 3
1.64768-1	0.	1.2469900	5.43272-1	2.25904-1	1.73267-1CARDS 4
7.22530-238R0.		7.78267-2	0.	1.3148000	4.74237-1CARDS 5
2.48045-1	7.16825-2	2.95661-2	2.78302-237R0.		7.27871-3CARDS 6
0.	1.2256900	4.62032-1	3.25898-1	1.63479-2	3.90473-2CAPDS 7
3.61069-2	2.90289-238R0.		1.6915400	9.84375-1	4.72134-1CAPDS 8
2.12409-1	1.59031-1	7.02201-2	6.28577-2	4.97865-237R0.	CARDS 9
2.2069500	8.86046-1	5.36922-1	0.	1.67337-1	3.06547-2CAPDS 10
2.61743-2	2.28600-2	1.79015-236R0.		1.5841900	5.85563-1CARDS 11
1.1319600	1.40929-1	6.84379-2	5.70926-2	2.47854-2	1.96870-2CARDS 12
1.69996-2	1.32427-235R0.		1.7629300	7.14828-1	9.13994-1CARDS 13
1.88947-1	0.	9.52521-2	0.	1.88896-2	1.41813-3CARDS 14
1.21373-2	9.41632-334R0.		1.9818100	8.27428-1	9.76525-1CARDS 15
8.46307-2	2R0.	7.42349-2	0.	1.36760-2	9.82458-3CAPDS 16
8.35046-2	6.45779-333R0.		2.4649400	1.6801600	1.1543800CARDS 17
7.15806-2	2R0.	7.81040-3	4.63167-2	0.	1.58515-2CARDS 18
1.08869-2	9.18833-3	7.08271-332R0.		3.0659100	2.1698700CARDS 19
7.84781-1	4R0.	8.70547-3	2R0.	6.98500-3	4.59474-3CARDS 20
3.85163-2	2.95971-331R0.		3.5764300	2.5827300	8.96039-1CARDS 21
5R0.	5.30953-3	2R0.	2.87468-3	1.84166-3	1.53740-3CARDS 22
1.17912-330R0.		3.9809000	2.7267700	9.93698-1	6R0. CARDS 23
3.20728-3	2R0.	1.12332-3	7.08149-4	5.89661-4	4.51718-4CARDS 24
2990.	4.3473800	3.6443900	1.2541300	7R0.	3.13720-3CARDS 25
2R0.	5.94123-4	3.70295-4	3.07785-4	2.35589-428R0.	CARDS 26
4.5957900	3.8627900	7.02986-1	8R0.	1.14336-3	2R0. CARDS 27
8.30147-5	5.13006-5	4.25834-5	3.25746-527R0.		4.6942700CARDS 28
3.9461600	7.32998-1	9R0.	4.93611-6	2R0.	1.12057-5CARDS 29
6.96467-6	5.77835-6	4.41920-624R0.		3.37907-7	0. CARDS 30
4.7313000	3.9794800	7.48109-140R0.		1.07194-5	0. CARDS 31
4.7451900	3.9894700	7.51816-140R0.		2.00167-5	0. CARDS 32
4.7502100	3.9961200	7.55714-140R0.		3.29331-5	0. CARDS 33
4.7521400	3.9967400	7.54066-140R0.		5.43073-5	0. CARDS 34
4.7528700	3.9977100	7.55365-140R0.		8.95365-5	0. CARDS 35
4.7532400	3.9971600	7.55106-140R0.		1.47574-4	0. CARDS 36
4.7534300	3.9971400	7.55989-140R0.		2.43253-4	0. CARDS 37
4.7536000	3.9988800	7.56143-140R0.		4.00693-4	0. CARDS 38
4.7537700	3.9953500	7.54480-140R0.		6.60872-4	0. CARDS 39
4.7540400	4.0004400	7.58021-140R0.		1.09052-3	0. CARDS 40
4.7544800	4.0033000	7.52939-140R0.		2.10470-3	0. CARDS 41
4.7554900	4.7533900	7.50089-140R0.		1.03500-1	0. CARDS 42
2.59060-1	4.32060-241R0.		7.10190-2	0.	4.14390-1CARDS 43
1.07280-2	4.18680-340R0.		6.23830-2	0.	4.36920-1CARDS 44
1.42200-2	2.11240-2	4.59670-339R0.		5.41190-2	0. CARDS 45
4.68640-1	1.83240-2	2.69930-2	2.15140-2	5.15410-338R0.	CARDS 46
4.54480-2	0.	5.07970-1	2.69840-2	3.61020-2	2.76770-2CARDS 47
2.25060-2	5.94040-337R0.		3.51780-2	0.	5.66260-1CARDS 48
3.76180-2	4.98080-2	3.73830-2	2.94830-2	2.45080-2	7.11060-3CARDS 49
8.58000-3	7.46000-4	4.52000-4	2.74000-4	1.66000-4	1.01000-4CARDS 50
6.12000-5	3.70000-5	2.25000-5	1.36000-5	7.22000-6	1.80000-7CARDS 51
11R0.	3.28000-2	2.83000-1	3.85000-1	2.75000-1	2.01000-1CARDS 52
1.99000-1	7R0.	2.33380-2	0.	6.45060-1	6.30580-2CARDS 53
7.55390-2	5.26280-2	4.10520-2	3.34040-2	2.84130-2	9.00170-3CARDS 54
4.04000-3	3.51000-4	2.13000-4	1.29000-4	7.83000-5	4.77000-5CARDS 55
2.88000-5	1.74000-5	1.06000-5	6.41000-6	3.40000-6	8.46000-8CARDS 56
23R0.	1.18340-2	0.	7.73150-1	1.20670-1	1.24310-1CARDS 57
8.28620-2	6.16200-2	5.01400-2	4.21180-2	3.66270-2	1.25160-2CARDS 58
34R0.	4.85700-3	0.	1.0162000	3.09240-1	2.48770-1CARDS 59
1.53500-1	1.14100-1	9.08920-2	7.69480-2	6.64430-2	5.88370-2CARDS 60
2.12410-2	4.04000-3	3.51000-4	2.13000-4	1.29000-4	7.83000-5CARDS 61
4.77000-5	2.88000-5	1.74000-5	1.06000-5	6.41000-6	3.40000-6CARDS 62
8.46000-821R0.		3.31340-4	0.	1.4558000	5.50220-1CARDS 63

3.43330-1	1.82710-1	1.32090-1	1.05060-1	8.66870-2	7.47080-2	CARDS 64
6.52390-2	5.81650-2	2.13120-232R0.		4.12780-3	0.	CARDS 65
2.1006000	1.9848000	9.05250-1	3.58820-1.	7.09180-1	1.48770-1	CARDS 66
1.15900-1	9.39070-2	7.98600-2	6.89590-2	6.09480-2	2.12990-2	CARDS 67
31R0.	5.9759000	0.	1.02220+1	4.2461000	1.11610-1	CARDS 68
40R0.						CARDS 69

P-1 TABLE FOR C (MAT1165)

1.34526-1	0.	6.78973-1	8.59543-241R0.	1.43937-1	CARDS 1	
0.	5.97207-1	3.99470-1	5.00707-140R0.	1.62585-1	CARDS 2	
0.	6.50693-1	4.86447-1	1.05309-1	2.77300-3	339R0. CARDS 3	
1.64768-1	0.	5.86429-1	4.61723-1	4.84440-2	-4.7193-2	CARDS 4
-4.4986-238R0.		7.78267-2	0.	4.39642-1	3.90760-1	CARDS 5
-2.7018-2	-4.6782-2	-4.3155-338R0.		7.27871-3	0.	CARDS 6
2.34997-1	3.49823-1	1.04282-2	-1.3043-241R0.		2.85188-1	CARDS 7
5.23517-1	-1.2210-1	-3.9372-241R0.		6.85043-2	6.79353-1	CARDS 8
-1.1882-142R0.		4.06910-2	3.82007-1	-4.5308-1	-1.1950-1	CARDS 9
41R0.	1.54823-1	4.30273-1	-2.7051-1	-1.5776-141R0.		CARDS 10
2.36187-1	4.73277-1	-2.1600-1	-7.0804-241R0.		3.10838-1	CARDS 11
4.98153-1	-2.3700-1	-5.9448-241R0.		3.53614-1	5.87323-1	CARDS 12
-1.8731-142R0.		3.55315-1	6.34097-1	-2.3371-142R0.		CARDS 13
3.37863-1	6.82823-1	-2.7878-142R0.		3.09062-1	5.10690-1	CARDS 14
-3.4496-142R0.		2.84255-1	4.98237-1	-2.0162-142R0.		CARDS 15
2.73144-1	4.92940-1	-2.1398-140R0.		3.37907-7	0.	CARDS 16
2.68735-1	4.90163-1	-2.1979-140R0.		1.07194-5	0.	CARDS 17
2.67092-1	4.89890-1	-2.2142-140R0.		2.00167-5	0.	CARDS 18
2.66483-1	4.88867-1	-2.2280-140R0.		3.29331-5	0.	CARDS 19
2.66274-1	4.89027-1	-2.2240-140R0.		5.43073-5	0.	CARDS 20
2.66212-1	4.88877-1	-2.2278-140R0.		8.95365-5	0.	CARDS 21
2.66219-1	4.89113-1	-2.2271-140R0.		1.47574-4	0.	CARDS 22
2.66270-1	4.89153-1	-2.2298-140R0.		2.43253-4	0.	CARDS 23
2.66362-1	4.88707-1	-2.2303-140R0.		4.00693-4	0.	CARDS 24
2.66518-1	4.89727-1	-2.2258-140R0.		6.60872-4	0.	CARDS 25
2.66778-1	4.88183-1	-2.2360-140R0.		1.09052-3	0.	CARDS 26
2.67208-1	4.87563-1	-2.2206-140R0.		2.10470-3	0.	CARDS 27
2.68222-1	2.66117-1	-2.2144-143R0.		4.26280-244R0.		CARDS 28
1.06920-2	4.03140-343R0.		1.41620-2	2.09520-2	4.38820-3	CARDS 29
42R0.	1.82320-2	2.67010-2	2.11120-2	4.96490-341R0.		CARDS 30
2.68020-2	3.55770-2	2.69770-2	2.17590-2	5.52020-340R0.		CARDS 31
3.72620-2	4.87270-2	3.60540-2	2.81190-2	2.31800-2	6.45690-3	CARDS 32
39R0.	6.20930-2	7.30290-2	4.97320-2	3.82230-2	3.07430-2	CARDS 33
2.59250-2	7.87150-339R0.		1.17140-1	1.16660-1	7.50220-2	CARDS 34
5.44350-2	4.35920-2	3.61600-2	3.11540-2	1.01670-237R0.		CARDS 35
2.84220-1	2.10730-1	1.20170-1	8.54130-2	6.59760-2	5.47500-2	CARDS 36
4.65390-2	4.07340-2	1.38850-236R0.		4.67660-1	2.18570-1	CARDS 37
8.61080-2	5.40750-2	3.95480-2	3.07410-2	2.54600-2	2.15340-2	CARDS 38
1.87430-2	6.06680-335R0.		5.19240-1	1.15520-2	-9.7777-2	CARDS 39
-7.3601-2	-5.6842-2	-4.6176-2	-3.8441-2	-3.3249-2	-2.9086-2	CARDS 40
-2.5951-2	-9.4820-334R0.		2.76780-1	-3.6964-240R0.		CARDS 41

P-2 TABLE FOR C (MAT1165)

1.34526-1	0.	5.46818-1	8.38438-241R0.	1.43937-1	CARDS 1	
0.	4.88865-1	3.31040-1	3.62828-140R0.	1.62585-1	CARDS 2	
0.	5.36615-1	3.76546-1	2.73596-2	-4.6298-2	339R0. CARDS 3	
1.64768-1	0.	4.96694-1	3.37076-1	-2.2155-2	-1.7348-2	CARDS 4
1.19191-238R0.		7.78267-2	0.	3.95884-1	2.80114-1	CARDS 5
-1.4428-2	1.96389-2	3.87698-338R0.		7.27871-3	0.	CARDS 6
2.19670-1	2.28164-1	1.22932-2	9.27834-341R0.		3.95063-1	CARDS 7
2.65350-1	-1.5772-2	2.56500-241R0.		7.35441-1	4.11658-1	CARDS 8
4.54152-242R0.		2.33810-1	1.57227-1	2.16884-1	8.42978-2	CARDS 9
41R0.	1.33063-1	1.43474-1	2.82424-2	1.06899-141R0.		CARDS 10
5.02604-2	1.26653-1	-5.0251-2	4.83404-241R0.		3.73904-2	CARDS 11
7.46896-2	-7.6392-2	3.98398-241R0.		2.94842-2	6.48728-2	CARDS 12
-3.7299-242R0.		2.35404-2	5.33040-2	-3.5388-242R0.		CARDS 13

1.84402-2	5.95086-2	-2.9763-242R0.	1.31697-2	3.18786-2	CARDS 14
-4.1068-242R0.		9.24870-3	2.67512-2	-1.8778-242R0.	CARDS 15
7.67902-3	2.47852-2	-1.7502-240R0.	3.37907-7	0.	CARDS 16
7.07704-3	2.30702-2	-1.7106-240R0.	1.07194-5	0.	CARDS 17
6.86170-3	2.37070-2	-1.6893-240R0.	2.00167-5	0.	CARDS 18
6.78734-3	2.35426-2	-1.6856-240R0.	3.29331-5	0.	CARDS 19
6.76959-3	2.35412-2	-1.6775-240R0.	5.43073-5	0.	CARDS 20
6.77950-3	2.35198-2	-1.6804-240R0.	8.95365-5	0.	CARDS 21
6.81074-3	2.35320-2	-1.6793-240R0.	1.47574-4	0.	CARDS 22
6.86737-3	2.35334-2	-1.6810-240R0.	2.43253-4	0.	CARDS 23
6.96241-3	2.34700-2	-1.6813-240R0.	4.00693-4	0.	CARDS 24
7.11969-3	2.35610-2	-1.6750-240R0.	6.60872-4	0.	CARDS 25
7.37977-3	2.34718-2	-1.6842-240R0.	1.09052-3	0.	CARDS 26
7.80944-3	2.32996-2	-1.6752-240R0.	2.10470-3	0.	CARDS 27
8.82362-3	6.71892-3	-1.6570-243R0.	4.15000-244R0.		CARDS 28
1.06410-2	3.72980-343R0.		2.06120-2	3.98590-3	CARDS 29
42R0.	1.80930-2	2.61230-2	2.03200-2	4.31150-341R0.	CARDS 30
2.64880-2	3.45400-2	2.56060-2	2.03050-2	4.72510-340R0.	CARDS 31
3.66310-2	4.66060-2	3.24720-2	2.54870-2	2.06350-2	5.24080-3
39R0.	6.03200-2	6.81570-2	4.41930-2	3.28680-2	2.57460-2
2.12800-2	5.82670-338R0.		1.10590-1	1.02210-1	6.05350-2
4.13780-2	3.18240-2	2.55470-2	2.14670-2	6.14350-337R0.	CARDS 35
2.39630-1	1.45620-1	6.56350-2	3.97840-2	2.71280-2	2.05840-2
1.62130-2	1.33500-2	3.16900-336R0.		3.34710-1	5.14100-2
-2.4360-2	-2.8508-2	-2.6775-2	-2.4172-2	-2.1913-2	-1.9839-2
-1.8135-2	-7.3732-335R0.		2.83640-1	-6.4326-2	-5.7479-2
-2.8932-2	-1.8292-2	-1.3101-2	-0.9321-3	-8.0541-3	-6.6812-3
-5.7221-3	-1.6697-334R0.		3.38210-1	1.24110-240R0.	CARDS 41

P-2 TABLE FOR C (MAT1165)

1.34526-1	0.	4.34423-1	8.07530-241R0.	1.43937-1	CARDS 1
0.	3.93727-1	2.47493-1	2.15991-140R0.	1.62585-1	CARDS 2
0.	4.30910-1	2.55244-1	-1.2517-2	-3.1358-339R0.	CARDS 3
1.64768-1	0.	3.96166-1	2.14542-1	1.58906-2	1.81071-2
6.28847-338R0.		7.78267-2	0.	2.74128-1	1.83269-1
2.22207-2	-2.9011-3	-3.2921-338R0.		7.27871-3	0.
1.87489-1	1.52770-1	2.48251-2	-5.3659-341R0.		9.17548-2
1.36209-1	2.74310-2	-1.1792-241R0.		1.10796-1	1.95600-1
2.40897-242R0.		-6.3324-3	3.49493-2	-3.1126-2	-4.6862-2
41R0.	3.24230-3	2.54604-2	-1.6286-2	-5.3678-241R0.	CARDS 10
-6.4484-4	2.91814-3	-2.5381-3	-2.4995-241R0.		1.85203-3
6.84433-3	-3.5620-3	-1.9679-241R0.		1.64026-3	4.16213-3
-4.9923-242R0.		1.12688-3	2.35282-3	-2.5218-342R0.	CARDS 13
7.10914-4	2.67357-3	-1.2259-342R0.		3.62799-4	1.02494-3
-1.9626-242R0.		1.20834-4	6.44093-4	-6.6214-442R0.	CARDS 15
2.50386-5	5.13110-4	-5.2325-440R0.		3.37977-7	0.
2.64648-6	4.62824-4	-4.7808-440R0.		1.07194-5	0.
2.07511-6	4.43720-4	-4.5951-440R0.		2.00167-5	0.
7.02090-6	4.35040-4	-4.5226-440R0.		3.29331-5	0.
1.82974-5	4.34231-4	-4.4802-440R0.		5.43073-5	0.
2.90816-5	4.33080-4	-4.4886-440R0.		8.95365-5	0.
7.40722-5	4.33196-4	-4.4831-440R0.		1.47574-4	0.
1.32027-4	4.33157-4	-4.4866-440R0.		2.43253-4	0.
2.27703-4	4.30166-4	-4.4870-440R0.		4.00693-4	0.
3.85063-4	4.33152-4	-4.4571-440R0.		6.60872-4	0.
6.45349-4	4.32101-4	-4.4878-440R0.		1.09052-3	0.
1.07502-3	4.21236-4	-4.4762-440R0.		2.10470-3	0.
2.08920-3	-1.5500-5	-4.3673-443R0.		3.98530-244R0.	CARDS 28
1.05650-2	3.29950-343R0.		1.39420-2	2.01070-2	3.41800-3
42R0.	1.78620-2	2.52690-2	1.91600-2	3.54130-341R0.	CARDS 30
2.60230-2	3.30180-2	2.36180-2	1.82170-2	2.64020-340R0.	CARDS 31
3.56990-2	4.25240-2	2.97800-2	2.17760-2	1.70820-2	3.63060-3
39R0.	5.77310-2	6.12100-2	3.64900-2	2.55550-2	1.90200-2

1.50970-2	3.25230-338R0.	1.01280-1	8.25230-2	4.15750-2CARDS	34	
2.48020-2	1.71860-2	1.25580-2	9.75730-3	1.57300-337R0.	CARDS 35	
1.83110-1	7.12850-2	8.80240-3	-5.0158-3	-9.4014-3	-1.0629-2CARDS 36	
-1.0858-2	-1.0655-2	-5.4300-336R0.		1.93220-1	-6.1616-2CARDS 37	
-6.7325-2	-4.9858-2	-3.9070-2	-3.1613-2	-2.6802-2	-2.3062-2CARDS 38	
-2.7316-2	-6.9259-335R0.		9.28810-2	-7.0712-2	8.45900-3CARDS 39	
1.87490-2	1.69600-2	1.46460-2	1.26040-2	1.11030-2	9.83760-3CARDS 40	
8.85310-3	3.34140-334R0.	3.40580-2	-1.4002-340R0.		CARDS 41	
P-C TABLE FOR FF (MAT1122)						
-3.8344-1	0.	2.4272500	6.69068-141R0.	-2.0892-1CARDS	1	
0.	2.6063300	1.1180600	4.10721-140R0.	-1.6920-2CARDS	2	
0.	2.8157500	1.3000500	8.10332-2	5.84914-339R0.	CARDS 3	
1.53406-1	0.	2.9647600	1.5462300	5.83783-2	1.63197-2CARDS 4	
1.95361-238R0.		1.02988-1	0.	3.2526100	1.8104400CARDS 5	
7.20546-2	4.09290-2	5.34127-2	6.19138-237R0.		6.13649-2CARDS 6	
0.	3.5362300	2.0516200	1.08931-1	5.89312-2	8.62611-2CARDS 7	
1.05863-1	1.19277-136R0.		2.41345-2	0.	3.6396500CARDS 8	
2.1659400	3.00801-1	2.20870-1	2.43595-1	3.21195-1	3.67604-1CARDS 9	
4.01091-135R0.		1.14237-2	0.	3.4425900	2.1779500CARDS 10	
3.43385-1	1.57186-1	1.64907-1	1.62871-1	2.00502-1	2.19026-1CARDS 11	
2.33863-134R0.		6.42631-3	0.	3.4231800	2.2501300CARDS 12	
5.22456-1	1.26575-1	1.78841-1	1.74325-1	1.62666-1	1.93404-1CARDS 13	
2.76392-1	2.18000-133R0.		3.13579-3	0.	3.1731400CARDS 14	
2.1586700	4.83417-1	3.24486-1	1.25397-1	1.78022-1	1.63820-1CARDS 15	
1.46220-1	1.59185-1	1.77279-1	1.85685-132R0.		2.11077-2CARDS 16	
0.	2.9827600	2.1100200	2.78484-1	5.36008-1	5.51605-2CARDS 17	
1.55846-1	1.58843-1	1.39726-1	1.20451-1	1.36433-1	1.40931-1CARDS 18	
1.46643-131R0.		3.09350-3	0.	3.9043600	3.2688100CARDS 19	
2.93852-1	6.82336-1	8.63298-2	1.29421-1	3.49391-1	2.28452-1CARDS 20	
1.91745-1	1.59430-1	1.76662-1	1.79813-1	1.85832-130R0.	CARDS 21	
5.46956-3	0.	5.1055100	4.7924300	2.09764-1	5.24584-1CARDS 22	
2.72082-2	3.59076-2	5.02713-2	2.00219-1	1.23409-1	9.91400-2CARDS 23	
7.96922-2	8.64885-2	8.68132-2	8.91438-229R0.		5.49438-2CARDS 24	
0.	6.0471400	5.8209400	3.07606-1	1.53681-1	4.00763-2CARDS 25	
2.05133-2	1.79978-2	6.41163-2	8.55777-2	5.75645-2	4.50119-2CARDS 26	
3.54350-2	3.79705-2	3.77880-2	3.86493-228R0.		6.12222-3CARDS 27	
0.	5.4701000	4.7900500	2.20707-1	0.	1.05813-1CARDS 28	
7.21077-3	7.30300-4	4.62561-3	3.98498-2	4.30691-2	2.42834-2CARDS 29	
1.86768-2	1.45171-2	1.54346-2	1.52803-2	1.55909-227R0.	CARDS 30	
1.27447-2	0.	4.7100100	4.6193300	6.74015-12R0.	CARDS 31	
1.03501-1	4.12435-3	1.20649-3	2.34052-3	5.38967-2	1.70724-2CARDS 32	
1.35605-2	1.03077-2	7.93975-3	8.39494-3	8.28015-3	8.43401-3CARDS 33	
26R0.	7.10372-2	0.	1.25579+1	1.23692+1	7.79345-2CARDS 34	
3P0.	3.80570-2	6.77345-4	7.40401-4	0.	1.05999-2CARDS 35	
2.62375-3	1.97314-3	1.48676-3	1.13751-3	1.19776-3	1.17811-3CARDS 36	
1.19847-225R0.		4.16833-2	0.	3.2872100	3.0009500CARDS 37	
1.17663-14R0.		1.39424-2	9.31730-5	1.00682-4	0.	CARDS 38
2.48237-3	3.70136-4	2.72770-4	2.04868-4	1.56352-4	1.64384-4CARDS 39	
1.61522-4	1.64235-424R0.		4.39673-2	0.	8.5562100CARDS 40	
8.2935200	2.44572-15R0.		5.13058-3	1.26693-5	1.23215-5CARDS 41	
0.	4.50943-4	5.09593-5	3.72756-5	2.79631-5	2.13214-5CARDS 42	
2.24042-5	2.20050-5	2.23716-523R0.		1.25439-2	0.	CARDS 43
7.4649000	7.1452200	2.18727-16R0.		1.88062-33R0.	CARDS 44	
2.74527-529R0.		1.91917-10.		9.7779200	9.2193000CARDS 45	
3.07138-17R0.		5.86281-432R0.		2.17999-20.	0.	CARDS 46
1.07993+1	1.03800+1	3.66702-18R0.		8.52187-531R0.	CARDS 47	
3.87737-20.		1.13606+1	1.09120+1.	3.97454-19R0.	CARDS 48	
1.15227-530R0.		6.58000-20.		1.16287+1	1.11476+1CARDS 49	
4.09846-140R0.		1.09738-10.		1.17647+1	1.12375+1CARDS 50	
4.15305-140R0.		1.81735-10.		1.18734+1	1.12747+1CARDS 51	
4.17420-140R0.		2.90882-10.		1.20021+1	1.12830+1CARDS 52	
4.16996-140R0.		4.94885-10.		1.22025+1	1.12910+1CARDS 53	

4.19207-14000.		8.16626-1	0.	1.25262+1	1.12950+1CARDS	54
4.16625-14000.		1.5760900	0.	1.32857+1	1.17096+1CARDS	55
4.14565-14000.		1.7535000	0.	2.4278000	1.87410-1CARDS	56
2.17000-1	2.01000-2	1.22000-2	7.41000-3	4.49000-3	2.70000-3CARDS	57
1.63000-3	9.96000-4	5.91000-4	8.44000-4	1.26000-3	4.23000-3CARDS	58
3.60000-4	4.47000-5	2.44000-4	2.28000-4	2.00000-4	2.17000-4CARDS	59
1.26000-4	7.95000-5	5.88000-5	4.48000-5	3.51000-5	2.51000-5CARDS	60
1.67000-5	5.79000-4	7.42000-3	5.43000-3	3.22000-3	12R0. CARDS	61
1.2351000	0.	2.7234000	4.69260-2	1.81430-2	8.47000-2CARDS	62
7.87000-2	4.78000-3	2.90000-3	1.75000-3	1.05000-3	6.39000-4CARDS	63
3.89000-4	2.32000-4	3.30000-4	4.92000-4	1.39000-3	4.65000-5CARDS	64
1.19000-5	4.84000-5	6.01000-5	5.76000-4	1.14000-3	6.65000-4CARDS	65
4.19000-4	3.10000-4	2.37000-4	1.85000-4	1.33000-4	8.81000-5CARDS	66
4.22000-3	2.26000-2	1.66000-2	1.05000-2	11R0.	1.0944000CARDS	67
0.	2.7180000	6.22000-2	9.15360-2	1.99100-2	4.9400000CARDS	68
4.59000-1	2.79000-1	1.59000-1	1.02000-1	6.15000-2	3.73000-2CARDS	69
2.27000-2	1.23000-2	1.40000-1	2.12000-1	6.39000-2	2.64000-3CARDS	70
5.16000-3	2.41000-3	2.02000-3	1.01000-3	3.49000-4	2.03000-4CARDS	71
1.28000-4	9.46000-5	7.22000-5	5.65000-5	4.04000-5	2.21000-4CARDS	72
1.72000-2	5.44000-2	4.73000-2	3.14000-2	10R0.	9.58270-1CARDS	73
0.	2.7553000	8.01690-2	1.16970-1	9.22770-2	2.23340-2CARDS	74
8.08000-1	7.50000-2	4.56000-2	2.76000-2	1.67000-2	1.00000-2CARDS	75
6.09000-3	3.71000-3	2.03000-3	3.53000-2	5.36000-2	1.38000-2CARDS	76
6.65000-4	1.23000-3	7.02000-4	6.41000-4	7.43000-4	7.43000-4CARDS	77
4.32000-4	2.72000-4	2.02000-4	1.54000-4	1.20000-4	8.61000-5CARDS	78
2.60000-3	3.38000-2	1.06000-1	8.05000-2	5.18000-2	9R0. CARDS	79
8.13820-1	0.	2.8192000	1.18000-1	1.56440-1	1.19930-1CARDS	80
9.75240-2	2.57420-2	6.61000-1	6.15000-2	3.73000-2	2.26000-2CARDS	81
1.37000-2	8.23000-3	4.99000-3	3.04000-3	1.67000-3	1.67000-2CARDS	82
2.53000-2	1.60000-2	7.69000-4	1.20000-3	6.41000-4	6.67000-4CARDS	83
6.08000-4	6.71000-4	3.91000-4	2.46000-4	1.82000-4	1.39000-4CARDS	84
1.09000-4	1.74000-3	4.55000-2	1.07000-1	2.03000-1	1.43000-1CARDS	85
9.14000-2	RR0.	6.40220-1	0.	2.9432000	1.64600-1CARDS	86
2.15840-1	1.61990-1	1.27760-1	1.06200-1	3.08130-2	1.1000000CARDS	87
1.03000-1	6.23000-2	3.77000-2	2.28000-2	1.37000-2	8.32000-3CARDS	88
5.07000-3	2.77000-3	4.14000-2	6.28000-2	4.00000-2	1.96000-3CARDS	89
3.65000-3	1.69000-3	1.48000-3	1.21000-3	1.24000-3	7.20000-4CARDS	90
4.54000-4	3.35000-4	2.56000-4	2.00000-4	1.47000-3	4.29000-2CARDS	91
1.47000-1	2.73000-1	1.96000-1	1.30000-1	7R0.	4.37550-1CARDS	92
0.	3.1344000	2.75990-1	3.27340-1	2.28060-1	1.77890-1CARDS	93
1.44750-1	1.23120-1	3.90070-2	1.6900000	1.57000-1	9.52000-2CARDS	94
5.77000-2	3.49000-2	2.10000-2	1.27000-2	7.75000-3	4.23000-3CARDS	95
4.73000-2	7.16000-2	5.75000-2	2.75000-3	5.84000-3	2.24000-3CARDS	96
1.91000-3	1.54000-3	1.55000-3	9.05000-4	5.70000-4	4.22000-4CARDS	97
3.22000-4	9.22000-3	1.48000-1	2.70000-1	3.60000-1	4.92000-1CARDS	98
3.26000-1	2.10000-1	6R0.	2.33090-1	0.	3.5379000CARDS	99
5.28680-1	5.38680-1	3.59070-1	2.67020-1	2.17270-1	1.82510-1CARDS	100
1.59720-1	5.42340-2	1.2000000	1.11000-1	6.76000-2	4.09000-2CARDS	101
2.48000-2	1.49000-2	9.03000-3	5.50000-3	3.01000-3	5.16000-2CARDS	102
7.82000-2	5.42000-2	2.60000-3	5.57000-3	2.13000-3	1.80000-3CARDS	103
1.47000-3	1.51000-3	8.80000-4	5.55000-4	4.10000-4	1.99000-3CARDS	104
1.47000-1	5.35000-1	6.29000-1	7.12000-1	7.62000-1	5.01000-1CARDS	105
3.25000-1	5R0.	1.13710-1	0.	4.5144000	1.2581000CARDS	106
1.0780000	6.65150-1	4.94460-1	3.93860-1	3.33440-1	2.87920-1CARDS	107
2.54960-1	9.20430-2	1.9100000	1.77000-1	1.08000-1	6.52000-2CARDS	108
3.95000-2	2.37000-2	1.44000-2	8.76000-3	4.77000-3	7.59000-2CARDS	109
1.15000-1	5.24000-2	2.41000-3	5.12000-3	2.14000-3	1.85000-3CARDS	110
1.52000-3	1.56000-3	9.07000-4	1.23000-2	1.44000-2	1.44000-1CARDS	111
4.44000-1	7.21000-1	1.2800000	1.4900000	1.5200000	1.1900000CARDS	112
8.53000-1	4P0.	8.25490-2	0.	6.4543000	2.4490000CARDS	113
1.4878000	7.91750-1	5.72370-1	4.55260-1	3.75640-1	3.23740-1CARDS	114
2.82700-1	2.52050-1	9.23510-2	4.13000-1	3.84000-2	2.33000-2CARDS	115

1.41000-2	8.55000-3	5.14000-3	3.11000-3	1.90000-3	1.04000-3CARDS116
1.36000-2	2.06000-2	1.56000-2	7.30000-4	1.41000-3	7.57000-4CARDS117
7.13000-4	6.11000-4	6.45000-4	4.29000-1	6.23000-1	6.96000-1CARDS118
9.78000-1	1.2300000	1.4400000	1.6300000	1.5200000	1.5000000CARDS119
1.0600000	7.92000-1	3R0.	4.4982000	0.	1.45400+1CARDS120
9.5583000	3.9228000	1.5549000	9.06430-1	6.44680-1	5.02230-1CARDS121
4.06930-1	3.46060-1	2.98820-1	2.64110-1	9.22970-2	1.9200000CARDS122
1.79000+1	1.09000-1	6.58000-2	3.98000-2	2.39000-2	1.45000-2CARDS123
8.84000-3	4.84000-3	3.91000-2	5.92000-2	6.21000-2	2.91000-3CARDS124
5.69000-3	2.83000-3	2.57000-3	2.14000-3	2.20000-3	1.28000-3CARDS125
8.07000-4	5.97000-4	4.55000-4	3.56000-4	2.49000-2	1.42000-1CARDS126
1.39000-1	1.73000-1	4.12000-1	5.03000-1	2R0.	2.88280+3CARDS127
0.	2.93450+3	5.17290+1	4.83650-110R0.		5.6500000CARDS128
5.25000-1	3.19000-1	1.93000-1	1.17000-1	7.02000-2	4.26000-2CARDS129
2.60000-2	1.41000-2	7.69000-2	1.16000-1	9.54000-2	4.06000-3CARDS130
8.91000-3	3.83000-3	3.29000-3	2R2.64000-3	1.53000-3	9.68000-4CARDS131
7.16000-4	5.46000-4	4.27000-4	2.45000-3	3.58000-2	4.29000-2CARDS132
4.92000-2	1.36000-1	1.34000-1	0.		CARDS133
P-1 TABLE FOR FF (MAT1122)					
-3.8344-1	0.	5.38049-1	6.45513-141R0.		-2.0892-1CARDS 1
0.	7.72834-1	9.89070-1	2.75981-140R0.		-1.6920-2CARDS 2
0.	1.0980900	1.1098600	-7.3107-340R0.		1.53406-1CARDS 3
0.	1.4864500	1.3238200	5.15160-340R0.		1.02988-1CARDS 4
0.	1.6701700	1.5485200	9.22790-340R0.		6.13649-2CARDS 5
0.	1.7643200	1.6832500	1.86618-240R0.		2.41345-2CARDS 6
0.	1.4819800	1.4707600	1.97118-240R0.		1.14237-2CARDS 7
0.	1.2035900	1.2356900	-1.2909-240R0.		6.42631-3CARDS 8
0.	9.21022-1	9.82483-1	-4.3522-240R0.		3.13579-3CARDS 9
0.	6.86760-1	7.68513-1	-6.7887-240R0.		2.11077-3CARDS 10
0.	5.41636-1	6.23617-1	-8.4888-240R0.		3.09350-3CARDS 11
0.	8.37247-1	8.89530-1	-8.4091-240R0.		5.46956-3CARDS 12
0.	9.10862-1	9.55910-1	-5.5376-240R0.		5.49438-3CARDS 13
0.	7.13972-1	8.15233-1	-5.0517-240R0.		6.12222-3CARDS 14
0.	5.54846-1	7.58793-1	-1.0675-140R0.		1.27447-2CARDS 15
0.	2.60552-1	2.72893-1	-2.1007-140R0.		7.10372-2CARDS 16
0.	2.15562-1	2.06862-1	-2.5085-240R0.		4.16833-2CARDS 17
0.	8.07636-2	1.16457-1	-6.2338-240R0.		4.39673-2CARDS 18
0.	1.46466-1	1.73369-1	-7.7376-240R0.		1.25439-2CARDS 19
0.	1.02280-1	1.89320-1	-7.0871-240R0.		1.91917-1CARDS 20
0.	3.07345-1	2.34525-1	-9.9584-240R0.		2.17999-2CARDS 21
0.	1.51574-1	2.58950-1	-1.1909-140R0.		3.87737-2CARDS 22
0.	1.75104-1	2.69585-1	-1.2917-140R0.		6.58000-2CARDS 23
0.	2.05033-1	2.74295-1	-1.3325-140R0.		1.09738-1CARDS 24
0.	2.50078-1	2.76101-1	-1.3506-140R0.		1.81735-1CARDS 25
0.	3.22518-1	2.76417-1	-1.3576-140R0.		2.99882-1CARDS 26
0.	4.40792-1	2.77262-1	-1.3563-140R0.		4.94885-1CARDS 27
0.	6.35860-1	2.76483-1	-1.3635-140R0.		8.16626-1CARDS 28
0.	9.57625-1	2.75863-1	-1.3550-140R0.		1.5760900CARDS 29
0.	1.7170900	1.40999-1	-1.3486-143R0.		1.84720-1CARDS 30
44R0.	4.63330-2	1.74690-243R0.		6.13690-2	9.07930-2CARDS 31
1.90150-242R0.		7.90050-2	1.15700-1	9.14850-2	2.10810-2CARDS 32
41R0.	1.16140-1	1.54160-1	1.16900-1	9.42910-2	2.39210-2CARDS 33
40R0.	1.61470-1	2.11150-1	1.56230-1	1.21850-1	1.00450-1CARDS 34
2.79800-239R0.		2.69070-1	3.16460-1	2.15510-1	1.65630-1CARDS 35
1.33220-1	1.12340-1	3.41100-238R0.		5.07630-1	5.05530-1CARDS 36
3.25090-1	2.35880-1	1.88900-1	1.56690-1	1.35000-1	4.40580-2CARDS 37
37R0.	1.2316000	9.13180-1	5.20720-1	3.70120-1	2.85900-1CARDS 38
2.37250-1	2.01670-1	1.76510-1	6.01700-236R0.		2.0265000CARDS 39
9.47140-1	3.73140-1	2.34320-1	1.71380-1	1.33210-1	1.10330-1CARDS 40
9.33160-2	8.12180-2	2.62890-235R0.		2.2500000	5.00580-2CARDS 41
-4.2370-1	-3.1894-1	-2.4632-1	-2.0010-1	-1.6658-1	-1.4408-1CARDS 42
-1.2604-1	-1.1246-1	-4.1089-234R0.		1.1994000	-1.6018-1CARDS 43

40R0.

CARDS 44

D-2 TABLE FOR FF (MAT1122)

-3.8344-1	0.	4.08711-1	6.00618-141R0.	-2.0892-1CARDS	1	
0.	6.29898-1	8.33942-1	1.91538-140R0.	-1.6920-2CARDS	2	
0.	9.33404-1	0.42058-1	4.88076-340R0.	1.53406-1CARDS	3	
0.	1.2848600	1.1201000	8.35602-340R0.	1.02988-1CARDS	4	
0.	1.4041300	1.2892000	1.13608-240R0.	6.13640-2CARDS	5	
0.	1.3901900	1.3201000	1.18507-240R0.	2.41345-2CARDS	6	
0.	1.0786100	1.0484500	8.72552-340R0.	1.14237-2CARDS	7	
0.	9.73899-1	9.43590-1	6.03234-340R0.	6.42631-3CARDS	8	
0.	8.11639-1	7.91262-1	1.88853-240R0.	3.13579-3CARDS	9	
0.	6.73297-1	6.48790-1	1.39507-240R0.	2.11077-3CARDS	10	
0.	5.42373-1	5.06704-1	2.13716-240R0.	3.09350-3CARDS	11	
0.	7.63320-1	7.40350-1	3.35578-240R0.	5.46956-3CARDS	12	
0.	6.83220-1	6.90498-1	1.98769-240R0.	5.49438-3CARDS	13	
0.	2.57825-1	2.31498-1	-2.7472-340R0.	6.12222-3CARDS	14	
0.	9.88474-2	1.28820-1	2.08322-240R0.	1.27447-2CARDS	15	
0.	6.05865-2	4.71398-2	-2.6103-240R0.	7.10372-2CARDS	16	
0.	7.57833-2	-1.4296-2	7.01988-440R0.	4.16833-2CARDS	17	
0.	4.18951-2	2.00260-3	1.90422-240R0.	4.39673-2CARDS	18	
0.	4.45227-2	1.75442-3	-2.6908-340R0.	1.25430-2CARDS	19	
0.	1.30302-2	2.14670-3	-1.1990-240R0.	1.91917-1CARDS	20	
0.	1.92542-1	2.49040-3	-1.6604-340R0.	2.17999-2CARDS	21	
0.	2.25031-2	2.67144-3	-1.8649-340R0.	3.87737-2CARDS	22	
0.	3.95124-2	2.73764-3	-1.9682-340R0.	6.58000-2CARDS	23	
0.	6.65545-2	2.76136-3	-1.9988-340R0.	1.09738-1CARDS	24	
0.	1.10498-1	2.77128-3	-2.0068-340R0.	1.81735-1CARDS	25	
0.	1.82498-1	2.76474-3	-2.0108-340R0.	2.99882-1CARDS	26	
0.	3.00646-1	2.77694-3	-2.0018-340R0.	4.94985-1CARDS	27	
0.	4.95640-1	2.76758-3	-2.0133-340R0.	8.16626-1CARDS	28	
0.	8.17390-1	2.74280-3	-2.0036-340R0.	1.5760900CARDS	29	
0.	1.5768500	7.64058-4	-1.9787-340R0.	1.79830-1CARDS	30	
44R0.	4.61130-2	1.61620-243R0.	6.09870-2	8.93170-2CARDS	31	
1.72720-242R0.		7.83610-2	1.13200-1	8.80510-2	1.86830-2CARDS	32
41R0.	1.14780-1	1.49670-1	1.10960-1	8.79890-2	2.04750-2CARDS	33
40R0.	1.58740-1	2.01960-1	1.45040-1	1.10440-1	8.94170-2CARDS	34
2.27100-239R0.		2.61390-1	2.95350-1	1.01500-1	1.42430-1CARDS	35
1.11560-1	9.22150-2	2.52490-238R0.		4.79220-1	4.42890-1CARDS	36
2.62320-1	1.79310-1	1.37910-1	1.10700-1	2.30250-2	2.66220-2CARDS	37
37R0.	1.0384000	6.31010-1	2.84420-1	1.72400-1	1.17560-1CARDS	38
8.91970-2	7.02570-2	5.78910-2	1.37320-236R0.		1.4504000CARDS	39
2.22780-1	-1.0556-1	-1.2353-1	-1.1603-1	-1.0475-1	-9.4054-2CARDS	40
-8.5970-2	-7.8587-2	-3.1951-235R0.		1.2291000	-2.7874-1CAPDS	41
-2.4008-1	-1.2537-1	-7.0263-2	-5.6760-2	-4.3030-2	-3.4961-2CARDS	42
-2.8952-2	-2.4796-2	-7.2255-334R0.		1.4656000	5.37800-2CARDS	43
40R0.					CARDS 44	

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-3.8344-1	0.	2.84497-1	5.38420-341R0.	-2.0892-1CARDS	1
0.	4.86777-1	6.91547-1	1.29522-140R0.	-1.6920-2CARDS	2
0.	7.59576-1	7.72021-1	4.15467-340R0.	1.53406-1CARDS	3
0.	1.0556300	8.96033-1	4.47539-340R0.	1.02988-1CARDS	4
0.	1.1241000	1.0022400	6.19020-340R0.	6.13640-2CARDS	5
0.	1.0613400	0.91777-1	1.18757-240R0.	2.41345-2CARDS	6
0.	7.55400-1	7.24884-1	9.19723-340R0.	1.14237-2CARDS	7
0.	6.75708-1	6.56924-1	6.39044-340R0.	6.42631-3CARDS	8
0.	4.27420-1	4.16633-1	7.35957-340R0.	3.13579-3CARDS	9
0.	3.25518-1	3.32763-1	4.37004-340R0.	2.11077-3CARDS	10
0.	1.74455-1	1.91720-1	-1.0380-240R0.	2.09350-3CARDS	11
0.	1.57992-1	1.70544-1	-1.0384-240R0.	5.46956-3CARDS	12
0.	5.04261-2	5.96093-2	-1.5644-240R0.	5.49438-3CARDS	13
0.	2.24567-2	1.02245-2	-1.4652-240R0.	6.12222-3CARDS	14
0.	-1.6928-2	-2.4953-2	6.63767-340R0.	1.27447-2CARDS	15

0.	-1.2576-2	-2.4216-2	1.90321-340R0.	7.10372-2CARDS	16		
0.	5.92515-2	-7.0531-3	-1.1051-340R0.	4.16833-2CARDS	17		
0.	4.16833-2	-4.9247-4	-4.7325-340R0.	4.39673-2CARDS	18		
0.	4.39673-2	2.54094-5	4.92476-440R0.	1.25439-2CARDS	19		
0.	1.25439-2	1.76060-5	-2.5499-540R0.	1.01917-1CARDS	20		
0.	1.91917-1	2.13859-5	-1.9606-540R0.	2.17999-2CARDS	21		
0.	2.17999-2	2.23197-5	-2.1385-540R0.	3.87737-2CARDS	22		
0.	3.87737-2	2.25330-5	-2.2319-540R0.	6.58000-2CARDS	23		
0.	6.58000-2	2.25451-5	-2.2533-540R0.	1.09738-1CARDS	24		
0.	1.09738-1	2.25631-5	-2.2545-540R0.	1.81735-1CARDS	25		
0.	1.81735-1	2.24740-5	-2.2563-540R0.	2.99882-1CARDS	26		
0.	2.99882-1	2.25676-5	-2.2474-540R0.	4.94885-1CARDS	27		
0.	4.94885-1	2.25089-5	-2.2567-540R0.	8.16626-1CARDS	28		
0.	8.16626-1	2.24381-5	-2.2508-540R0.	1.5760000CARDS	29		
0.	1.5760000	0.	-2.2438-543R0.	1.72700-1CARDS	30		
44R0.	4.57840-2	1.42980-243R0.	6.04170-2	8.71300-2CARDS	31		
	1.48110-242R0.	7.74010-2	1.09500-1	8.30270-2	1.53460-2CARDS	32	
41R0.	1.12770-1	1.43080-1	1.02350-1	7.89400-2	1.57740-2CARDS	33	
40R0.	1.54700-1	1.88610-1	1.29050-1	2.43620-2	7.40210-2CARDS	34	
	1.57330-239R0.	2.50170-1	2.65240-1	1.58120-1	1.10740-1CARDS	35	
	8.24180-2	6.54220-2	1.40930-238R0.	4.38880-1	3.57600-1CARDS	36	
	1.80160-1	1.07480-1	7.44720-2	5.44190-2	4.22820-2	6.81640-3CARDS	37
37R0.	7.93470-1	3.08900-1	3.81440-2	-2.1735-2	-4.0739-2CARDS	38	
	-4.6059-2	-4.7051-2	-4.6172-2	-2.3524-236R0.	8.37290-1CARDS	39	
	-2.6700-1	-2.9174-1	-2.1605-1	-1.6930-1	-1.1614-1CARDS	40	
	-9.9935-2	-8.8034-2	-3.0012-235R0.	4.02480-1	-3.0642-1CARDS	41	
	3.66560-2	8.12440-2	7.34950-2	6.34670-2	5.46170-2	4.91130-2CARDS	42
	4.26300-2	3.23640-2	1.44790-234R0.	1.47590-1	-6.0677-2CARDS	43	
40R0.					CARDS	44	

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2.84433-5	0.	6.18420-1	2.70723-241R0.	2.07205-5CARDS	1	
0.	6.89958-1	2.67205-2	5.76968-240R0.	2.03451-5CARDS	2	
0.	7.49300-1	4.94281-2	7.18746-2	5.77999-239R0.	CARDS	3
3.18068-5	0.	8.66459-1	7.46538-2	1.13040-1	9.62457-2CARDS	4
7.73300-238R0.		3.34853-5	0.	1.0630000	1.03060-1CARDS	5
1.71471-1	1.26798-1	1.07034-1	8.59737-237R0.		3.52377-5CARDS	6
0.	1.3016000	1.27826-1	2.08325-1	1.34601-1	9.94521-2CARDS	7
8.39432-2	6.74508-236R0.		2.62308-5.	0.	1.76281000CARDS	8
2.87620-1	4.56997-1	2.92700-1	1.88890-1	1.39618-1	1.17904-1CARDS	9
9.48176-235R0.		3.58000-5	0.	2.1959700	2.29197-1CARDS	10
3.23607-1	1.57320-1	1.00686-1	6.40227-2	4.80811-2	4.02355-2CARDS	11
3.27182-234R0.		3.40820-5	0.	2.5550300	2.60564-1CARDS	12
4.32252-1	2.52570-1	1.22718-1	7.85306-2	5.07231-2	2.75546-2CARDS	13
3.17566-2	2.55807-233R0.		3.43149-5	0.	2.94985000CARDS	14
3.21934-1	5.04640-1	3.38348-1	1.97843-1	9.60937-2	6.15005-2CARDS	15
3.97537-2	2.94552-2	2.40184-2	2.00937-232R0.		2.43331-5CARDS	16
0.	3.3967200	3.71550-1	5.82026-1	3.93779-1	2.64281-1CARDS	17
1.54626-1	7.50973-2	4.87704-2	3.10950-2	2.30546-2	1.95108-2CARDS	18
1.57438-231R0.		3.45171-5	0.	4.1525300	8.45056-1CARDS	19
1.1850100	8.01325-1	5.42740-1	3.54639-1	2.13491-1	1.03694-1CARDS	20
6.63945-2	4.29895-2	2.18969-2	2.70080-2	2.18143-230R0.	CARDS	21
3.62129-5	0.	5.3732200	1.1420500	1.2979000	7.22187-1CARDS	22
4.88407-1	3.31120-1	2.22689-1	1.30473-1	6.33844-2	4.06025-2CARDS	23
2.63167-2	1.95452-2	1.65608-2	1.32913-229R0.		4.20104-5CARDS	24
0.	6.9485700	1.5186200	1.6656700	7.01703-1	4.40467-1CARDS	25
2.97902-1	2.02093-1	1.35994-1	7.97146-2	3.87349-2	2.48209-2CARDS	26
1.61000-2	1.19667-2	1.01447-2	8.20932-228R0.		5.67053-5CARDS	27
0.	8.9677400	1.8429400	2.1308600	1.0070900	4.78270-1CARDS	28
2.66069-1	1.79958-1	1.22127-1	8.22132-2	4.82044-2	2.34275-2CARDS	29
1.50150-2	9.74451-3	7.24676-3	6.14525-3	4.97493-327R0.	CARDS	30
1.01165-4	0.	1.22743+1	4.2898600	4.5061900	2.08638000CARDS	31
9.85697-1	4.67850-1	2.60256-1	1.76031-1	1.19496-1	8.04647-2CARDS	32

4.71896-2	2.29360-2	1.47025-2	9.54560-3	7.10178-3	6.02338-3CARDS	33	
4.87754-226R0.		2.05312-4	0.	1.61782+1	5.799700CARDS	34	
5.0551100	1.6577500	7.67702-1	3.62626-1	1.72035-1	9.56954-2CARDS	35	
6.47276-2	4.39476-2	2.95986-2	1.73610-2	8.43896-3	5.40977-3CARDS	36	
3.51320-3	2.61455-3	2.21772-3	1.79609-225R0.		3.92212-4CARDS	37	
0.	1.85812+1	6.7522900	6.5615700	1.8520300	6.07460-1CARDS	38	
2.81324-1	1.32868-1	6.30265-2	3.50585-2	2.37135-2	1.61017-2CARDS	39	
1.08452-2	6.36155-3	3.09231-3	1.98238-3	1.28755-3	9.58282-4CARDS	40	
8.12848-4	6.58340-424R0.		7.04685-4	0.	1.97200+1CARDS	41	
7.2256700	7.4836000	2.4145600	6.81527-1	2.23548-1	1.03530-1CARDS	42	
4.88960-2	2.31920-2	1.29010-2	8.72622-3	5.92535-3	3.99110-3CARDS	43	
2.34112-3	1.13801-3	7.29547-4	4.73858-4	3.52690-4	2.99165-4CARDS	44	
2.42302-423R0.		1.18961-3	0.	2.01773+1	7.3992300CARDS	45	
7.8878300	2.7431200	8.85059-1	2.49815-1	8.19439-2	3.79507-2CARDS	46	
1.79235-2	8.50142-3	4.72887-3	3.19861-3	2.17197-3	1.46297-3CARDS	47	
8.58164-4	4.17140-4	2.67425-4	1.73701-4	1.29286-4	1.09666-4CARDS	48	
8.88210-522R0.		1.93968-3	0.	2.03428+1	7.4854000CARDS	49	
8.0800600	2.9127100	1.0129500	3.26822-1	9.22488-2	3.02596-2CARDS	50	
1.40143-2	6.61867-3	3.13930-3	1.74622-3	1.18114-3	8.02039-4CARDS	51	
5.40231-4	3.16895-4	1.54041-4	9.87523-5	6.41432-5	4.77422-5CARDS	52	
4.04968-5	3.27998-521R0.		3.20553-3	0.	2.03993+1CARDS	53	
7.5012700	8.1269700	2.9692400	1.0703600	3.72235-1	1.20100-1CARDS	54	
3.38994-2	1.11198-2	5.14998-3	2.43223-3	1.15362-3	6.41696-4CARDS	55	
4.34043-4	2.94732-4	1.98523-4	1.16452-4	5.66069-5	3.62894-5CARDS	56	
2.35713-5	1.75443-5	1.48818-5	1.20533-520R0.		5.29754-3CARDS	57	
0.	2.04477+1	7.5234500	8.1547000	2.9902700	1.0925100CARDS	58	
3.03832-1	1.36962-1	4.41902-2	1.24731-2	4.09148-3	1.89491-3CARDS	59	
8.94927-4	4.24460-4	2.36108-4	1.59704-4	1.08445-4	7.30456-5CAPDS	60	
4.28479-5	2.08282-5	1.33525-5	8.67296-6	6.45536-6	5.47569-6CARDS	61	
4.43495-619R0.		8.73725-3	0.	2.04583+1	7.5234900CARDS	62	
8.1659900	2.9962300	1.0987000	4.01416-1	1.44703-1	5.03230-2CARDS	63	
1.62366-2	4.58292-3	1.50331-3	6.96238-4	3.28818-4	1.55960-4CARDS	64	
8.67519-5	5.86790-5	3.98453-5	2.68387-5	1.57434-5	7.65279-6CARDS	65	
4.90604-6	3.18666-6	2.37186-6	2.01190-6	1.62951-618R0.	CARDS	66	
1.44025-2	0.	2.04634+1	7.5273500	8.1734800	3.0054200CARDS	67	
1.1027400	4.04366-1	1.47738-1	5.32568-2	1.85209-2	5.97572-3CARDS	68	
1.68670-3	5.53281-4	2.56245-4	1.21019-4	5.73998-5	3.19283-5CARDS	69	
2.15963-5	1.46647-5	9.87777-6	5.79421-6.	2.81654-6	1.80562-6CARDS	70	
1.17282-6	8.72942-7	7.40463-7	5.99728-717R0.		2.37417-2CARDS	71	
0.	2.04727+1	7.5531400	8.1856500	3.0106800	1.1074000CARDS	72	
4.06190-1	1.48947-1	5.44188-2	1.96170-2	6.82214-3	2.20114-3CARDS	73	
6.21293-4	2.03800-4	9.43870-5	4.45769-5	2.11431-5	1.17607-5CARDS	74	
7.95494-6	5.40171-6	3.63845-6	2.13428-6	1.03747-6	6.65097-7CARDS	75	
4.32006-7	3.21546-7	2.72748-7	2.20908-716R0.		3.91114-2CARDS	76	
0.	2.04881+1	7.5743700	8.1783000	3.0034800	1.1046800CARDS	77	
4.06195-1	1.49039-1	5.46518-2	1.99674-2	7.19787-3	2.50318-3CARDS	78	
8.07643-4	2.27965-4	7.47782-5	3.46325-5	1.63562-5	7.75782-6CARDS	79	
4.31523-6	2.91883-6	1.98200-6	1.33502-6	7.83112-7	3.70455-7CARDS	80	
1.98434-7	9.60195-8	5.14265-8	3.30111-8	1.48202-815R0.	CARDS	81	
6.45129-2	0.	2.05135+1	7.7401200	8.2801300	3.0340200CARDS	82	
1.1142400	4.09810-1	1.50692-1	5.52913-2	2.02750-2	7.40758-3CARDS	83	
2.67030-3	9.28641-4	2.99623-4	8.45714-5	2.77416-5	1.28481-5CARDS	84	
6.06789-6	2.87803-6	1.60088-6	1.08284-6	7.12625-7	4.00028-7CARDS	85	
1.50115-7	3.76486-919R0.		1.06464-1	0.	2.05555+1CARDS	86	
8.1098400	8.3809600	3.0298800	1.1102200	4.07726-1	1.49962-1CARDS	87	
5.51415-2	2.02323-2	7.41905-3	2.71059-3	9.77121-4	3.39810-4CARDS	88	
1.09639-4	3.09465-5	1.01512-5	4.70141-6.	2.22037-6	9.44274-7CAPDS	89	
3.40172-7	1.17505-7	5.89764-921R0.		2.05476-1	0.	CARDS	90
2.06545+1	2.04490+1	1.23392+1	4.3279200	1.5646300	5.73315-1CARDS	91	
2.10550-1	7.74401-2	2.84750-2	1.04479-2	3.83119-3	1.39975-3CARDS	92	
5.04585-4	1.75478-4	5.66173-5	1.56614-5	4.34227-6	1.52772-6CARDS	93	
3.60423-7	3.94748-923R0.		1.79080-1	0.	3.86500-1CARDS	94	

5.76120-228R0.		1.70000-5	2.82000-511R0.		1.23710-1CARDS 95
0.	5.81550-1	1.43140-2	5.58240-327R0.		2.98000-5CARDS 96
1.20000-511R0.		1.08920-1	0.	6.08320-1	1.89730-2CARDS 97
2.81650-2	6.12890-326R0.		3.10000-512R0.		9.47160-2CARDS 98
0.	5.47420-1	2.44500-2	3.59900-2	2.86850-2	6.87210-3CARDS 99
25R0.	2.74000-512R0.		7.97660-2	0.	6.96490-1CARDS100
3.60020-2	4.81350-2	3.60020-2	3.00070-2	7.92050-323R0.	CARDS101
3.02000-7	3.46000-5	4.64000-611R0.		6.19300-2	0. CARDS102
7.70080-1	5.01930-2	6.64110-2	4.98440-2	3.93110-2	3.26770-2CARDS103
9.48080-223R0.		2.50000-512R0.	7.0.	4.12840-2	0. CARDS104
8.70310-1	8.41380-2	1.00720-1	7.01710-2	5.47360-2	4.45390-2CARDS105
3.78850-2	1.20020-220R0.		1.32000-5	3.50000-5	3.49000-5CARDS106
9.28000-611R0.		2.10420-2	0.	1.0363000	1.61020-1CARDS107
1.65750-1	1.10480-1	8.21600-2	6.68540-2	5.61580-2	4.88360-2CARDS108
1.66870-2	1.1100000	1.05020-1	6.38000-2	3.87000-2	2.35000-2CARDS109
1.41000-2	8.64000-3	5.26000-3	3.17000-3	1.93000-3	1.18000-3CARDS110
6.96000-4	3.91000-4	2.04000-4	1.00000-4	5.54000-5	4.20000-5CARDS111
3.57000-5	3.39000-5	3.43000-5	2.04000-513R0.		8.69820-3CARDS112
0.	1.3576000	4.12720-1	3.31690-1	2.04660-1	1.52140-1CARDS113
1.21190-1	1.02600-1	8.85910-2	7.84500-2	2.83210-233R0.	CARDS114
7.48490-4	0.	1.9428000	7.35020-1	4.57780-1	2.43610-1CARDS115
1.76110-1	1.40080-1	1.15580-1	9.96110-2	8.69850-2	7.75530-2CARDS116
2.84160-222R0.		1.83570-2	0.	2.8345000	2.6673000CARDS117
1.2070000	4.78420-1	2.78900-1	1.98360-1	1.54530-1	1.25210-1CARDS118
1.06480-1	9.19460-2	8.12630-2	2.83990-231R0.		2.26740+1CARDS119
0.	2.91190+1	6.4455000	1.48810-140R0.		CARDS120

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2.84433-5	0.	4.09234-1	2.66011-241R0.		2.97295-5CARDS 1
0.	4.56856-1	2.63913-2	5.49807-240R0.		3.03451-5CARDS 2
0.	4.96400-1	4.83873-2	6.84487-2	5.21007-239R0.	CARDS 3
3.18068-5	0.	5.74534-1	7.24707-2	1.05345-1	8.51233-2CARDS 4
6.47357-238R0.		3.34853-5	0.	7.05676-1	9.93697-2CARDS 5
1.54472-1	1.05398-1	8.51087-2	6.47070-237R0.		3.52377-5CARDS 6
0.	8.64851-1	1.23227-1	1.86714-1	1.07047-1	7.29800-2CARDS 7
5.89267-2	4.48180-226R0.		3.62308-5	0.	1.1727100CARDS 8
2.69555-1	3.88180-1	2.19638-1	1.25772-1	8.57807-2	6.92980-2CARDS 9
5.27507-235R0.		3.58000-5	0.	1.4627000	2.19778-1CARDS 10
2.80461-1	1.09758-1	6.20530-2	3.55460-2	2.42669-2	1.96208-2CARDS 11
1.49548-234R0.		3.49820-5	0.	1.7035900	2.59577-1CARDS 12
3.86240-1	1.93213-1	7.55700-2	4.27240-2	2.44911-2	1.67244-2CARDS 13
1.35385-2	1.03278-233R0.		3.43149-5	0.	1.9680000CARDS 14
3.09804-1	4.50617-1	2.66861-1	1.33595-1	5.22410-2	2.95408-2CARDS 15
1.69488-2	1.15906-2	9.38167-3	7.16240-332R0.		3.43331-5CARDS 16
0.	2.2663700	3.57530-1	5.18740-1	3.10302-1	1.83960-1CARDS 17
9.21557-2	3.60390-2	2.03844-2	1.17058-2	8.01103-3	6.48717-3CARDS 18
4.95643-231R0.		3.45171-5	0.	2.7705600	7.85633-1CARDS 19
1.0024400	5.98253-1	3.58270-1	2.12636-1	1.06609-1	4.17057-2CARDS 20
2.36012-2	1.35691-2	9.29527-3	7.53197-3	5.76117-330R0.	CARDS 21
3.62129-5	0.	3.5840200	1.0597200	1.0439300	4.76533-1CARDS 22
2.84454-1	1.70541-1	1.01336-1	5.08580-2	1.99114-2	1.12780-2CARDS 23
6.49460-3	4.45543-3	3.61380-3	2.76843-329R0.		4.20104-5CARDS 24
0.	4.6346200	1.4072700	1.3314200	4.96307-1	2.26566-1CARDS 25
1.35275-1	8.11697-2	4.82753-2	2.42508-2	9.50580-3	5.30013-3CARDS 26
3.10927-3	2.13637-3	1.73454-3	1.33065-328R0.		5.67053-5CARDS 27
0.	5.9825200	1.7124600	1.6976000	6.27203-1	2.33657-1CARDS 28
1.06693-1	6.37237-2	3.82647-2	2.27772-2	1.14544-2	4.49777-3CARDS 29
2.55410-3	1.47635-3	1.01622-3	8.25977-4	6.34593-427R0.	CARDS 30
1.01165-4	0.	8.1895200	3.7640300	3.3161700	1.1873400CARDS 31
4.38707-1	1.63453-1	7.46940-2	4.46457-2	2.68408-2	1.60004-2CARDS 32
8.06407-3	3.17927-3	1.81124-3	1.05135-3	7.26203-4	5.91480-4CARDS 33
4.55730-426R0.		2.05312-4	0.	1.07945+1	5.0783300CARDS 34
3.4389000	7.40307-1	2.65359-1	9.81703-2	3.66427-2	1.67918-2CARDS 35

1.00619-2	6.06937-3	3.63333-3	1.84364-3	7.36417-4	4.23877-4CARDS	36	
2.40133-4	1.72822-4	1.42428-4	1.10655-425R0.		3.92212-4CARDS	37	
0.	1.23990+1	5.9059700	4.4372000	7.64610-1	1.64975-1CARDS	38	
5.92830-2	2.20142-2	8.26663-3	3.81710-3	2.30229-3	1.40017-3CARDS	39	
8.46903-4	4.37007-4	1.80169-4	1.06211-4	6.41733-5	4.57400-5CARDS	40	
3.79610-5	2.99921-524R0.		7.04685-4	0.	1.31578+1CARDS	41	
6.3152000	5.0416700	9.91607-1	1.71342-1	3.71777-2	1.34478-2CARDS	42	
5.04497-3	1.92489-3	9.06030-4	5.55360-4	3.44427-4	2.13387-4CARDS	43	
1.14295-4	5.03100-5	3.10369-5	1.96890-5	1.45367-5	1.23097-5CARDS	44	
9.97857-623R0.		1.18961-3	0.	1.34631+1	6.4674300CARDS	45	
5.3055300	1.1224000	2.21384-1	3.85353-2	8.48590-3	3.12229-3CARDS	46	
1.20180-3	4.76487-4	2.34249-4	1.48632-4	9.59063-5	6.21873-5CARDS	47	
3.55487-5	1.72910-5	1.13327-5	7.62093-6	5.84763-6	5.05587-6CARDS	48	
4.20357-622R0.		1.93968-3	0.	1.35738+1	6.5399000CARDS	49	
5.4304700	1.1909800	2.52678-1	5.02057-2	8.90973-3	2.03674-3CARDS	50	
7.80617-4	3.18207-4	1.36351-4	7.24757-5	4.86240-5	3.32587-5CARDS	51	
2.29082-5	1.41337-5	7.58877-6	5.23547-6	3.68053-6	2.90125-6CARDS	52	
2.54339-6	2.14923-621R0.		3.20553-3	0.	1.36119+1CARDS	53	
6.5540300	5.4581000	1.2120400	2.66563-1	5.69797-2	1.15455-2CARDS	54	
2.15122-3	5.35687-4	2.22994-4	1.00547-4	4.83160-5	2.82681-5CARDS	55	
2.01242-5	1.45450-5	1.05465-5	6.89013-6	3.04367-6	2.80181-6CARDS	56	
2.01670-6	1.61142-6	1.42223-6	1.21117-620R0.		5.29754-3CARDS	57	
0.	1.36449+1	6.5723300	5.4769700	1.2199300	2.71665-1CARDS	58	
6.01977-2	1.31247-2	2.79371-3	5.80660-4	1.69185-4	7.95150-5CARDS	59	
4.04183-5	2.16604-5	1.36594-5	1.01259-5	7.57443-6	5.65467-6CARDS	60	
3.80677-6	2.24657-6	1.61718-6	1.17589-6	9.44940-7	8.36333-7CARDS	61	
7.14480-719R0.		8.73725-3	0.	1.36531+1	6.5712000CARDS	62	
5.4841300	1.2224200	2.73049-1	6.12653-2	1.38478-2	3.17302-3CARDS	63	
7.54223-4	1.90352-4	6.77773-5	3.57440-5	1.98998-5	1.14171-5CARDS	64	
7.49730-6	5.67020-6	4.31010-6	3.25995-6	2.22300-6	1.32847-6CARDS	65	
9.61297-7	7.01767-7	5.65177-7	5.00757-7	4.28317-718R0.	CARDS	66	
1.44025-2	0.	1.36584+1	6.5698300	5.4885000	1.2265900CARDS	67	
2.74178-1	6.17070-2	1.41237-2	3.35330-3	8.59187-4	2.48275-4CARDS	68	
7.94693-5	3.33720-5	1.89117-5	1.10486-5	6.54547-6	4.37447-6CARDS	69	
3.33610-6	2.55240-6	1.94055-6	1.32993-6	7.98607-7	5.79023-7CARDS	70	
4.23333-7	3.41217-7	3.02445-7	2.58810-717R0.		2.37417-2CARDS	71	
0.	1.36678+1	6.5782700	5.4921000	1.2284800	2.75319-1CARDS	72	
6.20077-2	1.42364-2	3.42537-3	9.09607-4	2.83491-4	1.03977-4CARDS	73	
4.02060-5	1.85324-5	1.08633-5	6.48003-6	3.88937-6	2.61738-6CARDS	74	
2.00251-6	1.53591-6	1.17003-6	8.03380-7	4.83287-7	3.50660-7CARDS	75	
2.56516-7	2.06822-7	1.83348-7	1.56922-716R0.		3.91114-2CARDS	76	
0.	1.36831+1	6.5656300	5.4780000	1.2248700	2.74749-1CARDS	77	
6.20403-2	1.42534-2	3.44010-3	9.25407-4	2.99113-4	1.18412-4CARDS	78	
5.24580-5	2.25173-5	1.08191-5	6.42970-6	3.86670-6	2.33246-6CARDS	79	
1.57374-6	1.20540-6	9.25463-7	7.05517-7	4.84770-7	2.81327-7CARDS	80	
1.62835-7	8.43937-8	4.72590-8	3.10761-8	1.43310-815R0.	CARDS	81	
6.45129-2	0.	1.37085+1	6.6169700	5.5147000	1.2355200CARDS	82	
2.77034-1	6.26107-2	1.44214-2	3.48273-3	9.39873-4	3.07865-4CARDS	83	
1.26403-4	6.04687-5	2.97304-5	1.33641-5	6.52810-6	3.90010-6CARDS	84	
2.35266-6	1.42181-6	9.60247-7	7.35880-7	5.41830-7	3.29455-7CARDS	85	
1.33605-7	3.71547-919R0.		1.06464-1	0.	1.37505+1CARDS	86	
6.7208000	5.5052700	1.2238500	2.74965-1	6.21230-2	1.43232-2CAPDS	87	
3.46880-3	9.37203-4	3.08363-4	1.28490-4	6.37837-5	3.38793-5CARDS	88	
1.74435-5	7.98600-6	3.92560-6	2.34991-6	1.41916-6	7.41933-7CARDS	89	
3.00471-7	1.10682-7	5.82453-921R0.		2.05476-1	0.	CARDS	90
1.38495+1	1.36440+1	6.9232000	1.5217600	3.39810-1	7.72630-2CARDS	91	
1.80105-2	4.48480-3	1.28131-3	4.55020-4	2.03927-4	1.07014-4CARDS	92	
6.00760-5	3.36657-5	1.77025-5	7.81800-6	2.92891-6	1.20928-6CARDS	93	
3.25317-7	3.90183-926R0.		5.68380-244R0.		1.42560-2CAPDS	94	
5.37520-243R0.		1.88830-2	2.79360-2	5.85090-342P0.	CAPDS	95	
2.43090-2	3.56010-2	2.81490-2	6.48660-341R0.		3.57360-2CAPDS	96	
4.74350-2	3.59700-2	2.90130-2	7.36020-340R0.		4.96830-2CAPDS	97	

6.49690-2	4.80720-2	3.74910-2	3.09070-2	8.60920-339R0.	CARDS 98
8.27910-2	9.73720-2	6.63090-2	5.09640-2	4.09900-2	3.45660-2CARDS 99
1.04950-238R0.		1.56190-1	1.55550-1	1.00030-1	7.25800-2CARDS100
5.81230-2	4.82140-2	4.15380-2	1.35560-237R0.		3.78960-1CARDS101
2.80980-1	1.60220-1	1.13880-1	8.79680-2	7.30000-2	6.20520-2CARDS102
5.43120-2	1.85140-236R0.		6.23550-1	2.01430-1	1.14810-1CARDS103
7.21000-2	5.27310-2	4.09890-2	3.39470-2	2.87130-2	2.49900-2CARDS104
8.08910-235R0.		6.92320-1	1.54020-2	-1.3037-1	-9.8134-2CAPDS105
-7.5789-2	-6.1568-2	-5.1254-2	-4.4332-2	-3.8781-2	-3.4602-2CAPDS106
-1.2643-234R0.		3.69040-1	-4.9285-240R0.		CARDS107

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2.84433-5	0.	1.49089-1	2.56784-241R0.		2.97295-5CARDS 1
0.	1.66721-1	2.57422-2	4.97812-240R0.		3.03451-5CARDS 2
0.	1.81443-1	4.63538-2	6.18798-2	4.15860-239R0.	CARDS 3
3.18068-5	0.	2.10644-1	6.82474-2	8.92698-2	6.48950-2CARDS 4
4.27036-238R0.		3.34853-5	0.	2.59798-1	9.22966-2CARDS 5
1.23414-1	6.82234-2	4.81352-2	3.01796-237R0.		3.52377-5CARDS 6
0.	3.19491-1	1.14415-1	1.47480-1	6.06528-2	3.07326-2CARDS 7
2.01624-2	1.10142-236R0.		3.62308-5	0.	4.35297-1CARDS 8
2.36136-1	2.69204-1	1.02411-1	3.18956-2	9.66984-3	2.45790-2CARDS 9
-3.1524-235R0.		3.58000-5	0.	5.45781-1	2.03656-1CARDS 10
2.04772-1	3.64782-2	7.16488-3	-3.2771-3	-5.6398-3	-6.0872-2CARDS 11
-6.0895-234R0.		3.49820-5	0.	6.38149-1	2.40454-1CARDS 12
3.02876-1	9.66090-2	8.61934-3	-4.3131-3	-7.5886-3	-7.5743-2CARDS 13
-7.2087-3	-6.5327-233R0.		3.43149-5	0.	7.39115-1CARDS 14
2.86588-1	3.52760-1	1.47344-1	3.71268-2	-5.3394-3	-9.4131-2CARDS 15
-9.0165-3	-7.8754-3	-7.1536-3	-6.2113-332R0.		3.43331-5CARDS 16
0.	8.51334-1	3.30696-1	4.04272-1	1.70824-1	6.04218-2CARDS 17
5.51830-3	-1.1541-2	-1.1036-2	0.	-8.9251-3	-6.5156-3CARDS 18
-5.5277-231R0.		3.45171-5	4.83670-3	-2.6164-2	-2.6530-2CARDS 20
6.87482-1	2.73514-1	8.55962-2	-1.0337-2	-8.6130-330R0.	CARDS 21
-2.0535-2	-1.5074-2	-1.1864-2	9.08502-1	6.23076-1	1.13538-1CARDS 22
3.62129-5	0.	1.3445000	-3.5229-2	-2.2252-2	-1.5573-2CARDS 23
5.86448-3	-3.2989-2	-4.1741-2	-5.8327-229R0.		4.20104-5CARDS 24
-1.0740-2	-8.2412-3	-7.0916-3	7.79704-1	7.54960-2	-4.4316-2CARDS 25
0.	1.7385000	1.2030000	-2.8690-2	-1.5846-2	-1.0644-2CARDS 26
-5.6228-2	-5.1837-2	-4.2130-2	-3.7795-228R0.		5.67053-5CARDS 27
-7.1443-3	-5.4083-3	-4.6253-3	9.83906-1	8.82852-2	-6.6208-2CARDS 28
0.	2.2458000	1.4725900	-2.1582-2	-1.9983-2	-1.0410-2CARDS 29
-6.8456-2	-5.5920-2	-4.2968-2	-3.9053-3	-2.3654-327R0.	CARDS 30
-6.8519-3	-4.5349-3	-3.4085-3	2.8608800	1.4948700	-5.3109-3CARDS 31
1.01165-4	0.	3.0760000	-7.0697-2	-5.0528-2	-3.5367-2CARDS 32
-1.9299-1	-1.4624-1	-9.7336-2	-4.5961-3	-3.4377-3	-2.9232-3CARDS 33
-2.1482-2	-1.0795-2	-7.0105-3	0.	4.0548400	3.8409000CARDS 34
-2.3739-226R0.		2.05312-4	-1.4051-1	-7.4040-2	-4.3343-2CARDS 35
1.1110400	-3.2118-1	-2.4299-1	-8.3810-3	-4.1215-3	-2.6543-2CARDS 36
-2.9973-2	-2.0693-2	-1.4118-2	-8.8771-425R0.		3.92212-4CARDS 37
-1.7298-3	-1.2897-3	-1.0949-3	1.3882500	-4.3519-1	-2.3495-1CARDS 38
0.	4.6572200	4.4557400	-1.6895-2	-1.1515-2	-7.8653-3CARDS 39
-1.2148-1	-6.0839-2	-2.9852-2	-9.8258-4	-6.3895-4	-4.7585-4CARDS 40
-5.3219-3	-3.1350-3	-1.5302-3	7.04685-4	0.	4.9428900CARDS 41
-4.0375-4	-3.2711-424R0.		-2.7382-1	-1.0229-1	-4.9088-2CARDS 42
4.7561000	1.5449200	-5.7373-1	-4.3094-3	-2.9323-3	-1.9783-3CARDS 43
-2.3651-2	-1.1352-2	-6.3537-3	-2.3570-4	-1.7544-4	-1.4882-4CARDS 44
-1.1621-3	-5.6565-4	-3.6279-4	0.	5.0578600	4.8714600CARDS 45
-1.2053-423R0.		1.18961-3	-1.1568-1	-3.9627-2	-1.8583-2CARDS 46
1.6110400	-6.5687-1	-3.5644-1	-1.5889-3	-1.0796-3	-7.2751-4CARDS 47
-8.8391-3	-4.2102-3	-2.3469-3	0.	5.0998900	4.9211800CARDS 49
-4.2687-4	-2.0750-4	-1.3299-4	-8.6347-5	-6.4244-5	-5.4481-5CARDS 48
-4.4111-522R0.		1.93968-3	0.	5.0998900	4.9211800CARDS 49
1.6414800	-6.9841-1	-4.0845-1	-1.5144-1	-4.4794-2	-1.4921-2CARDS 50
-6.9412-3	-3.2862-3	-1.5607-3	-8.6859-4	-5.8756-4	-3.9895-4CARDS 51

-2.6865-4	-1.5749-4	-7.6455-5	-4.8956-5	-3.1751-5	-2.3603-5CARDS	52	
-2.0005-5	-1.6185-521R0.		3.20553-3	0.	5.1150200CARDS	53	
4.9322600	1.6435000	-7.1461-1	-4.3192-1	-1.7257-1	-5.8334-2CARDS	54	
-1.6740-2	-5.5200-3	-2.5604-3	-1.2098-3	-5.7377-4	-3.1897-4CARDS	55	
-2.1561-4	-1.4628-4	-9.8413-5	-5.7606-5	-2.7885-5	-1.7815-5CARDS	56	
-1.1522-5	-8.5464-6	-7.2335-6	-5.8408-620R0.		5.29754-3CARDS	57	
0.	5.1287000	4.9441800	1.6497700	-7.2040-1	-4.4118-1CARDS	58	
-1.8262-1	-6.6536-2	-2.1824-2	-6.1957-3	-2.0352-3	-9.4244-4CARDS	59	
-4.4471-4	-2.1056-4	-1.1685-4	-7.8876-5	-5.3417-5	-3.5855-5CARDS	60	
-2.0906-5	-1.0043-5	-6.3767-6	-4.0926-6	-3.0161-6	-2.5425-6CARDS	61	
-2.0414-619R0.		8.73725-3	0.	5.1339300	4.9414600CARDS	62	
1.6517400	-7.2167-1	-4.4376-1	-1.8618-1	-7.0301-2	-2.4854-2CARDS	63	
-8.0652-3	-2.2796-3	-7.4705-4	-3.4534-4	-1.6257-4	-7.6704-5CARDS	64	
-4.2387-5	-2.8502-5	-1.9210-5	-1.2813-5	-7.3899-6	-3.4732-6CARDS	65	
-2.1645-6	-1.3567-6	-9.7979-7	-8.1520-7	-6.4241-718R0.	CARDS	66	
1.44025-2	0.	5.1394500	4.9326600	1.6533500	-7.2294-1CARDS	67	
-4.4524-1	-1.8754-1	-7.1779-2	-2.6304-2	-9.2001-3	-2.9723-3CARDS	68	
-8.3767-4	-2.7357-4	-1.2599-4	-5.8964-5	-2.7555-5	-1.5047-5CARDS	69	
-1.0009-5	-6.6521-6	-4.3549-6	-7.4280-6	-1.0613-6	-6.1826-7CARDS	70	
-3.5235-7	-2.3224-7	-1.8111-7	-1.2884-717R0.		2.37417-2CARDS	71	
0.	5.1488100	4.9153200	1.6510700	-7.2346-1	-4.4675-1CARDS	72	
-1.8836-1	-7.2364-2	-2.6878-2	-9.7446-3	-3.3933-3	-1.0931-3CARDS	73	
-3.0664-4	-9.9319-5	-4.5275-5	-2.0841-5	-9.4718-6	-4.9879-6CARDS	74	
-3.2050+6	-2.0316-6	-1.2426-6	-6.0216-7	-1.7365-7	-4.9156-8CARDS	75	
1.73485-8	4.29576-8	5.23454-8	6.02608-816R0.		3.91114-2CARDS	76	
0.	5.1641600	4.8515400	1.6420400	-7.1982-1	-4.4535-1CARDS	77	
-1.8828-1	-7.2398-2	-2.6992-2	-9.9186-3	-3.5802-3	-1.2430-3CARDS	78	
-3.9857-4	-1.1053-4	-3.4985-5	-1.5481-5	-6.7725-6	-2.8003-6CARDS	79	
-1.2780-6	-6.9639-7	-3.2871-7	-9.6073-8	6.98648-8	1.41476-7CARDS	80	
1.03496-7	6.38290-8	3.95806-8	2.74280-8	1.33858-815R0.	CARDS	81	
6.45129-2	0.	5.1895800	4.7242000	1.6287600	-7.2138-1CARDS	82	
-4.4802-1	-1.8977-1	-7.3173-2	-2.7304-2	-1.0070-2	-3.6844-3CARDS	83	
-1.3260-3	-4.5826-4	-1.4523-4	-3.8995-5	-1.1508-5	-4.6024-6CARDS	84	
-1.6302-6	-3.5807-7	8.26452-8	2.25336-7	2.73694-7	2.09102-7CARDS	85	
1.04229-7	3.61810-919R0.		1.06464-1	0.	5.2315200CARDS	86	
4.4167400	1.5677600	-7.1268-1	-4.4392-1	-1.8841-1	-7.2762-2CARDS	87	
-2.7222-2	-1.0048-2	-3.6900-3	-1.3460-3	-4.8214-4	-1.6466-4CARDS	88	
-5.0493-5	-1.2257-5	-2.7398-6	-5.4305-7.	2.85782-7	4.17366-7CARDS	89	
2.30014-7	9.78652-8	5.68036-921R0.		2.05476-1	0.	CARDS	90
5.3305300	5.1250500	7.08314-1	-1.166890	-6.4256-1	-2.6698-1CARDS	91	
-1.0242-1	-3.8262-2	-1.4143-2	-5.1929-3	-1.8983-3	-6.8650-4CARDS	92	
-2.4039-4	-7.6918-5	-1.9008-5	-1.3917-6	9.09940-7	6.96024-7CARDS	93	
2.62256-7	3.81170-926R0.		5.53340-244R0.		1.41890-2CARDS	94	
4.97310-343R0.		1.87650-2	2.74820-2	5.31450-342R0.	CARDS	95	
2.41110-2	3.48300-2	2.70930-2	5.74870-341R0.		3.53180-2CARDS	96	
4.60530-2	3.41420-2	2.70740-2	6.30010-340R0.		4.88420-2CARDS	97	
6.21410-2	4.46290-2	3.39830-2	2.75130-2	6.98770-339R0.	CARDS	98	
8.04270-2	9.08770-2	5.89240-2	4.38250-2	3.43280-2	2.83740-2CARDS	99	
7.76900-338R0.		1.47450-1	1.36270-1	8.07130-2	5.51710-2CARDS	100	
4.24330-2	3.40630-2	2.86230-2	8.19140-337R0.		3.19510-1CARDS	101	
1.94160-1	8.75130-2	5.30450-2	3.61710-2	2.74450-2	2.16170-2CARDS	102	
1.78130-2	4.22530-336R0.		4.46280-1	6.85470-2	-3.2480-2CARDS	103	
-3.8010-2	-3.5700-2	-3.2230-2	-2.9217-2	-2.6452-2	-2.4181-2CARDS	104	
-9.8310-335R0.		3.78180-1	-8.5768-2	-7.6639-2	-3.8576-2CARDS	105	
-2.4389-2	-1.7467-2	-1.3243-2	-1.0739-2	-8.9083-3	-7.6295-3CARDS	106	
-2.2263-334R0.		4.50950-1	1.65480-240R0.		CARDS	107	
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2.84433-5	0.	-4.4795-3	2.43424-241R0.		2.97295-5CARDS	1	
0.	-4.9347-3	2.47914-2	4.25387-240R0.		3.03451-5CARDS	2	
0.	-5.1892-3	4.34200-2	5.27043-2	2.78640-239R0.	CARDS	3	
3.18068-5	0.	-5.5313-3	6.22580-2	6.77741-2	3.91721-2CARDS	4	
1.66459-238R0.		3.34853-5	0.	-5.8716-3	8.24216-2CARDS	5	

8.35593-2	2.48280-2	7.42506-3	-4.9920-337R0.	3.52377-5CARDS	6	
0.	-6.0819-3	1.02114-1	9.76894-2	9.69987-3	-1.0755-2CARDS	7
-1.5494-2	-1.7525-236R0.		3.62308-5	0.	-5.9658-3CARDS	8
1.92223-1	1.31126-1	-1.4469-2	-4.6846-2	-4.6418-2	-4.3174-2CARDS	9
-3.7654-235R0.		3.58000-5	0.	-4.2000-3	1.81179-1CARDS	10
1.14446-1	-3.0000-2	-3.3715-2	-2.6579-2	-2.0873-2	-1.7947-2CARDS	11
-1.4584-234R0.		3.49820-5	0.	-2.0231-3	2.13796-1CARDS	12
1.97473-1	-2.6193-3	-4.1177-2	-3.2236-2	-2.2378-2	-1.6755-2CARDS	13
-1.4130-2	-1.1266-233R0.		3.43149-5	0.	-1.6248-4CARDS	14
2.54251-1	2.29139-1	1.78866-2	-4.5652-2	-3.9473-2	-2.7145-2CARDS	15
-1.7675-2	-1.2877-2	-1.0734-2	-8.4578-332R0.		3.43331-5CARDS	16
0.	4.57792-5	2.03321-1	2.59986-1	1.99336-2	-5.1411-2CARDS	17
-5.5082-2	-3.3154-2	-2.1344-2	-1.3387-2	-9.5869-3	-7.9304-3CARDS	18
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