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The following data contain generators gi and square +- 2 vectors vj
in the proof of Proposition 6.2 in the article
Bloch's conjecture for (anti-)autoequivalences on K3 surfaces
by Zhiyuan Li, Xun Yu, and Ruxuan Zhang.
n=6
Ln=\{\{0, 1, 0\}, \{1, 0, 0\}, \{0, 0, -12\}\}
g1={{1, 6, 12}, {0, 1, 0}, {0, 1, 1}}
g2=\{\{25, 24, 120\}, \{24, 25, 120\}, \{10, 10, 49\}\}, v1=\{5, 5, 2\}
n=8
Ln=\{\{0, 1, 0\}, \{1, 0, 0\}, \{0, 0, -16\}\}\
g1={{1, 8, 16}, {0, 1, 0}, {0, 1, 1}}
g2=\{\{9, 8, 48\}, \{8, 9, 48\}, \{3, 3, 17\}\}, v1=\{3, 3, 1\}
Ln=\{\{0, 1, 0\}, \{1, 0, 0\}, \{0, 0, -20\}\}
g1=\{\{1, 10, 20\}, \{0, 1, 0\}, \{0, 1, 1\}\}
g2=\{\{81, 160, 720\}, \{40, 81, 360\}, \{18, 36, 161\}\}, v1=\{13, 7, 3\},
v2={3, 3, 1}
n=11
Ln=\{\{0, 1, 0\}, \{1, 0, 0\}, \{0, 0, -22\}\}\
g1={{1, 11, 22}, {0, 1, 0}, {0, 1, 1}}
g2=\{\{11, 16, 88\}, \{9, 11, 66\}, \{3, 4, 23\}\}, v1=\{4, 3, 1\}
n=14
Ln=\{\{0, 1, 0\}, \{1, 0, 0\}, \{0, 0, -28\}\}
g1={{1, 14, 28}, {0, 1, 0}, {0, 1, 1}}
g2={{14, 25, 140}, {9, 14, 84}, {3, 5, 29}}, v1={5, 3, 1}
g3={{169, 504, 2184}, {56, 169, 728}, {26, 78, 337}}, v1={5, 3, 1},
v2={15, 15, 4}, v3={3, 5, 1}
n=15
Ln=\{\{0, 1, 0\}, \{1, 0, 0\}, \{0, 0, -30\}\}
g1=\{\{1, 0, 0\}, \{15, 1, 30\}, \{1, 0, 1\}\}
g2=\{\{16, 15, 120\}, \{15, 16, 120\}, \{4, 4, 31\}\}, v1=\{4, 4, 1\}
g3=\{\{121, 60, 660\}, \{240, 121, 1320\}, \{44, 22, 241\}\}, v1=\{8, 17, 3\},
v2=\{2, 8, 1\}, v3=\{1, 16, 1\}
n = 16
Ln=\{\{0, 1, 0\}, \{1, 0, 0\}, \{0, 0, -32\}\}\
g1=\{\{1, 16, 32\}, \{0, 1, 0\}, \{0, 1, 1\}\}
g2=\{\{49, 144, 672\}, \{16, 49, 224\}, \{7, 21, 97\}\}, v1=\{13, 5, 2\},
v2=\{5, 3, 1\}
n=17
Ln=\{\{0, 1, 0\}, \{1, 0, 0\}, \{0, 0, -34\}\}
g1=\{\{1, 17, 34\}, \{0, 1, 0\}, \{0, 1, 1\}\}
g2=\{\{17, 36, 204\}, \{9, 17, 102\}, \{3, 6, 35\}\}, v1=\{6, 3, 1\}
n = 19
Ln=\{\{0, 1, 0\}, \{1, 0, 0\}, \{0, 0, -38\}\}
g1=\{\{1, 0, 0\}, \{19, 1, 38\}, \{1, 0, 1\}\}
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g2=\{\{19, 16, 152\}, \{25, 19, 190\}, \{5, 4, 39\}\}, v1=\{4, 5, 1\}
g3={{19, 16, 152}, {196, 171, 1596}, {-14, -12, -113}}, v1={4, 43,
-3}, v2={1, 20, -1}
Ln=\{\{0, 1, 0\}, \{1, 0, 0\}, \{0, 0, -42\}\}
g1={{1, 21, 42}, {0, 1, 0}, {0, 1, 1}}
g2=\{64, 189, 1008\}, \{21, 64, 336\}, \{8, 24, 127\}\}, v1=\{17, 5, 2\},
v2=\{11, 2, 1\}
3}, v2={5, 4, 1}
n=23
Ln=\{\{0, 1, 0\}, \{1, 0, 0\}, \{0, 0, -46\}\}
g1={{1, 0, 0}, {23, 1, 46}, {1, 0, 1}}
g2={{23, 16, 184}, {36, 23, 276}, {6, 4, 47}}, v1={4, 6, 1}
g3=\{\{23, 9, 138\}, \{64, 23, 368\}, \{8, 3, 47\}\}, v1=\{3, 8, 1\}
g4=\{\{81, 23, -414\}, \{92, 25, -460\}, \{18, 5, -91\}\}, v1=\{4, 6, 1\},
v2={3, 8, 1}
g5=\{\{92, 9, -276\}, \{225, 23, -690\}, \{30, 3, -91\}\}, v1=\{3, 8, 1\},
v2=\{1, 24, 1\}
n=26
Ln=\{\{0, 1, 0\}, \{1, 0, 0\}, \{0, 0, -52\}\}
g1=\{\{1, 0, 0\}, \{26, 1, 52\}, \{1, 0, 1\}\}
g2=\{\{26, 9, 156\}, \{81, 26, 468\}, \{9, 3, 53\}\}, v1=\{3, 9, 1\}
g3=\{\{49, 26, 364\}, \{234, 121, 1716\}, \{-21, -11, -155\}\}, v1=\{3, 9, 121\}
-1}, v2={7, 15, -2}
g4=\{\{26, 9, 156\}, \{289, 104, 1768\}, \{-17, -6, -103\}\}, v1=\{3, 35, 176\}, v
-2}, v2={1, 27, -1}
-1}, v2=\{7, 15, -2\}, v3=\{3, 9, -1\}, v4=\{1, 27, -1\}
g6=\{\{1681, 234, 6396\}, \{2600, 361, 9880\}, \{-410, -57, -1559\}\},\
v1=\{21, 31, -5\}, v2=\{5, 5, -1\}, v3=\{7, 15, -2\}, v4=\{3, 9, -1\},
v5=\{1, 27, -1\}
 \begin{array}{l} Ln=\{\{0,\ 1,\ 0\},\ \{1,\ 0,\ 0\},\ \{0,\ 0,\ -58\}\}\\ g1=\{\{29,\ 100,\ 580\},\ \{9,\ 29,\ 174\},\ \{3,\ 10,\ 59\}\},\ v1=\{10,\ 3,\ 1\} \end{array} 
g2=\{\{29, 361, 1102\}, \{9, 116, 348\}, \{-3, -38, -115\}\}, v1=\{10, 3, -1\}\}
g3={{29, 36, 348}, {25, 29, 290}, {5, 6, 59}}, v1={6, 5, 1}
g4=\{\{441, 464, 4872\}, \{116, 121, 1276\}, \{-42, -44, -463\}\}, v1=\{10, 464, 4872\}, v1=\{1
3, -1, v2 = \{6, 5, -1\}
n = 31
Ln=\{\{0, 1, 0\}, \{1, 0, 0\}, \{0, 0, -62\}\}
g1=\{\{1, 31, 62\}, \{0, 1, 0\}, \{0, 1, 1\}\}
g2=\{\{31, 64, 496\}, \{16, 31, 248\}, \{4, 8, 63\}\}, v1=\{8, 4, 1\}
g3=\{\{124, 1369, 4588\}, \{25, 279, 930\}, \{-10, -111, -371\}\}, v1=\{25, 930\}, \{-10, -111, -371\}\}
5, −2}
n=41
Ln=\{\{0, 1, 0\}, \{1, 0, 0\}, \{0, 0, -82\}\}\
g1={{1, 41, 82}, {0, 1, 0}, {0, 1, 1}}
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 \begin{array}{l} g2 = & \{41,\ 196,\ 1148\},\ \{9,\ 41,\ 246\},\ \{3,\ 14,\ 83\}\},\ v1 = \{14,\ 3,\ 1\} \\ g3 = & \{41,\ 729,\ 2214\},\ \{9,\ 164,\ 492\},\ \{-3,\ -54,\ -163\}\},\ v1 = \{14,\ 3,\ -1\} \\ g4 = & \{41,\ 49,\ 574\},\ \{36,\ 41,\ 492\},\ \{6,\ 7,\ 83\}\},\ v1 = \{7,\ 6,\ 1\} \\ g5 = & \{144,\ 1025,\ 4920\},\ \{41,\ 289,\ 1394\},\ \{-12,\ -85,\ -409\}\},\ v1 = \{37,\ 10,\ -3\},\ v2 = \{14,\ 3,\ -1\} \\ g6 = & \{164,\ 2401,\ 8036\},\ \{25,\ 369,\ 1230\},\ \{-10,\ -147,\ -491\}\},\ v1 = \{14,\ 3,\ -1\},\ v2 = \{37,\ 10,\ -3\},\ v3 = \{14,\ 3,\ -1\} \\ n = & \{9,\ 1,\ 0\},\ \{1,\ 0,\ 0\},\ \{0,\ 0,\ -98\}\} \\ g1 = & \{1,\ 0,\ 0\},\ \{49,\ 1,\ 98\},\ \{1,\ 0,\ 1\}\} \\ g2 = & \{49,\ 25,\ 490\},\ \{100,\ 49,\ 980\},\ \{10,\ 5,\ 99\}\},\ v1 = \{5,\ 10,\ 1\} \\ \end{array}
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This file contains computational data for Proposition 6.8 in the article

Bloch's conjecture for (anti-)autoequivalences on K3 surfaces by Zhiyuan Li, Xun Yu, and Ruxuan Zhang.

By Tables 15.2a and 15.2b in the book by Conway-Sloane, there are exactly 394 lattices L(n) such that

- (1) L is a rank 2 even hyperbolic lattice,
- (2) $|\det(L)| \le 100$,
- (3) |det(L)| is not a square number, equivalently, L is not isotropic,
- (4) 1 <= n <= 6
- (5) L(n) has no elements v with $v^2=2,-2$.

For each L(n), let g denote a generator of the intersection between $0^++(L(n))$ and the stable orthogonal group of L(n).

The following data give decomposition $id_U+g=E_w.s_r1...s_rk.f$ for the isometry id_U+g in O(U+L(n)).

Here E_w is the Echiler transformation associated to w in L(n), s_r1,...,s_rk are reflections around square +-2 vectors r1,..., rk in U+L(n) and rts:=(r1,...,rk), f is an element in W(L(n)).

Decomposition for g is unclear for the cases No. 198, 303, 304, 358, 383.

No.1

$$L(n) = \{\{4,2\}, \{2,-4\}\}$$

$$g = \{\{233,-144\}, \{-144,89\}\}$$

$$w = \{-2,3\}$$

$$rts = \{\{17,-1,3,0\}, \{7,3,-2,-5\}, \{1,1,-1,-2\}\}$$

$$f = \{\{-10,-1,-30,20\}, \{-1,0,0,0\}, \{-4,0,1,0\}, \{-7,0,0,1\}\}$$

No.2

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No.3
L(n) = \{\{-4, 4\}, \{4, 6\}\}
g={{1177,684},{456,265}}
w = \{0, -2\}
rts=\{\{13,2,-3,3\},\{1,2,-3,5\}\}
f = \{\{1,0,0,0\}, \{-48,1,784,456\}, \{72,0,1,0\}, \{-124,0,0,1\}\}
No.4
L(n) = \{\{6,3\},\{3,-6\}\}\
g = \{\{34, -21\}, \{-21, 13\}\}
w = \{3, 2\}
rts=\{\{16,1,-1,-3\},\{1,2,-3,-5\},\{4,1,-1,-2\}\}
f = \{\{0,1,0,0\},\{1,0,0,0\},\{0,0,1,0\},\{0,0,0,1\}\}
No.5
L(n) = \{\{4,4\},\{4,-8\}\}
g = \{\{153, -112\}, \{-56, 41\}\}
w = \{2, -2\}
rts={{5,1,0,1},{1,3,2,3}}
f = \{\{-1,0,0,0\},\{8,-1,56,-40\},\{6,0,1,0\},\{8,0,0,1\}\}
No.6
L(n) = \{\{-4,4\},\{4,8\}\}\
g={{153,112},{56,41}}
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```
w = \{-2, -1\}
rts=\{\{1,1,-1,0\},\{5,-1,0,-1\},\{1,1,1,0\}\}
f = \{\{44, 1, 52, 32\}, \{1, 0, 0, 0\}, \{6, 0, 1, 0\}, \{-7, 0, 0, 1\}\}
No.7
L(n) = \{\{4,6\}, \{6,-4\}\}
g = \{\{1543321, -467280\}, \{-467280, 141481\}\}
w = \{3, -5\}
rts=\{\{173,-1,-7,-2\},\{33,1,0,4\},\{7,-5,-6,-19\},\{3,-1,-1,-3\},
\{19,1,0,-3\},\{3,1,0,-1\},\{1,-5,-1,-2\},\{1,1,0,1\}\}
f = \{\{-1,0,0,0\},\{294,-1,1162,-350\},\{49,0,1,0\},\{161,0,0,1\}\}
No.8
L(n) = \{\{4,6\}, \{6,-6\}\}
g = \{\{55, -24\}, \{-16, 7\}\}
w = \{-23, 19\}
rts=\{\{68,1,-4,-11\},\{16,-1,5,11\},\{9,-1,-2,-4\},\{2,-2,-1,-1\},
\{2,1,0,-1\}\}
f = \{\{2, -1, -4, -6\}, \{-1, 0, 0, 0\}, \{-1, 0, 1, 0\}, \{0, 0, 0, 1\}\}
No.9
L(n) = \{\{-4,6\}, \{6,6\}\}
g = \{\{55, 24\}, \{16, 7\}\}
W = \{19, 0\}
rts=\{\{306,-1,-5,-7\},\{117,2,-7,9\},\{6,-1,2,-5\}\}
f = \{\{-80, -1, -40, 0\}, \{-1, 0, 0, 0\}, \{4, 0, 1, 0\}, \{-4, 0, 0, 1\}\}
```

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No.10
L(n) = \{\{4,7\}, \{7,-4\}\}
g = \{\{62177, -16512\}, \{-16512, 4385\}\}
w = \{15, 0\}
rts={{99,-8,11,29},{9,-3,3,10},{11,-4,3,9}}
f = \{ \{730, -1, 4580, -1215\}, \{-1, 0, 0, 0\}, \{151, 0, 1, 0\}, \{568, 0, 0, 1\} \}
No.11
L(n) = \{\{-4, 6\}, \{6, 8\}\}
g={{3761,2112},{1056,593}}
w = \{-1, 2\}
rts=\{\{15,1,2,-2\},\{9,1,2,-3\},\{5,1,1,-1\},\{31,1,-4,6\},\{17,3,-11,19\},
\{3,1,-4,7\}\}
f = \{\{1, -2, -16, -10\}, \{0, 1, 0, 0\}, \{0, -1, 1, 0\}, \{0, 2, 0, 1\}\}
No.12
L(n) = \{\{6,6\}, \{6,-6\}\}\
g = \{\{985, -408\}, \{-408, 169\}\}\
w = \{2, -3\}
rts={{13,1,0,2},{1,2,2,5}}
f = \{\{-1,0,0,0\},\{21,-1,450,-186\},\{22,0,1,0\},\{53,0,0,1\}\}
No.13
L(n) = \{\{8,4\},\{4,-8\}\}
g = \{\{233, -144\}, \{-144, 89\}\}
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```
w = \{2, 0\}
rts=\{\{5,1,0,-1\},\{1,-5,2,3\}\}
f = \{\{-1,0,0,0\},\{-16,-1,88,-56\},\{6,0,1,0\},\{10,0,0,1\}\}
No.14
L(n) = \{\{4,8\}, \{8,-4\}\}
g = \{\{305, -72\}, \{-72, 17\}\}
w = \{-1, -3\}
rts={{19,1,0,3},{13,3,1,7},{3,1,0,1}}
f = \{\{-40, 1, 260, -60\}, \{1, 0, 0, 0\}, \{-7, 0, 1, 0\}, \{-29, 0, 0, 1\}\}
No.15
L(n) = \{\{4,6\}, \{6,-12\}\}\
q = \{\{10009, -7920\}, \{-2640, 2089\}\}
w = \{3, 2\}
rts=\{\{9,-1,2,2\},\{17,7,-11,-15\},\{27,5,-10,-14\},\{1,-1,-1,-1\}\}
f = \{\{1,306,1704,-1350\},\{0,1,0,0\},\{0,-147,1,0\},\{0,-186,0,1\}\}
No.16
L(n) = \{\{-4,6\},\{6,12\}\}
g = \{\{10009, 7920\}, \{2640, 2089\}\}\
w = \{-1, -3\}
rts=\{\{9,1,-2,2\},\{23,-7,8,-12\},\{1,1,1,-1\}\}
f = \{\{502, -1, -2978, -2358\}, \{-1, 0, 0, 0\}, \{257, 0, 1, 0\}, \{-325, 0, 0, 1\}\}
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No.17
L(n) = \{\{-6,5\}, \{5,10\}\}\
g={{5311,3735},{2241,1576}}
w = \{-13, -9\}
rts={{123,-2,0,-7},{12,-8,15,-22},{4,-1,2,-3}}
f = \{\{207, 1, 363, 250\}, \{1, 0, 0, 0\}, \{28, 0, 1, 0\}, \{-39, 0, 0, 1\}\}
No.18
L(n) = \{\{6,6\}, \{6,-10\}\}\
g=\{\{79,-50\},\{-30,19\}\}
w = \{12, 12\}
rts={{101,-1,9,13},{30,1,-8,-13},{18,-1,9,14}}
f = \{\{-4, 1, 108, -68\}, \{1, 0, 0, 0\}, \{-7, 0, 1, 0\}, \{-11, 0, 0, 1\}\}
No.19
L(n) = \{\{4,8\}, \{8,-8\}\}
g = \{\{89, -40\}, \{-20, 9\}\}
w = \{3, -1\}
rts=\{\{3,-1,-1,0\},\{1,5,0,1\}\}
f = \{\{-1,0,0,0\},\{6,-1,12,0\},\{1,0,1,0\},\{1,0,0,1\}\}
No.20
L(n) = \{\{-4, 8\}, \{8, 8\}\}
g={{89,40},{20,9}}
w = \{-3, 3\}
rts={{21,1,2,-3},{3,1,1,-2}}
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f = \{\{1,0,0,0\},\{6,1,108,48\},\{5,0,1,0\},\{-11,0,0,1\}\}
No.21
L(n) = \{\{-6, 6\}, \{6, 10\}\}\
g = \{\{79,50\}, \{30,19\}\}\
w = \{-13, -25\}
rts=\{\{138,1,-11,16\},\{21,-1,10,-16\},\{4,-1,-1,2\},\{2,-3,0,1\},
\{1,-6,2,1\}\}
f = \{\{0, -1, 0, 0\}, \{-1, -12, 12, -12\}, \{0, -2, 1, 0\}, \{0, 0, 0, 1\}\}
No.22
L(n) = \{\{6,6\}, \{6,-12\}\}\
g = \{\{2131, -1560\}, \{-780, 571\}\}
w = \{2, 0\}
rts=\{\{10,1,1,-1\},\{11,5,0,-3\},\{5,5,0,-2\},\{2,-1,-1,-1\}\}
f = \{\{1,6,30,-24\},\{0,1,0,0\},\{0,-2,1,0\},\{0,-3,0,1\}\}
No.23
L(n) = \{\{-6, 6\}, \{6, 12\}\}\
g={{2131,1560},{780,571}}
w = \{3, -2\}
rts={{17,-2,3,-5},{25,4,-7,8},{2,1,-1,1}}
```

 $f = \{\{501, -1, 1380, 1014\}, \{-1, 0, 0, 0\}, \{-97, 0, 1, 0\}, \{133, 0, 0, 1\}\}$

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L(n) = \{\{4,8\}, \{8,-12\}\}\
g = \{\{56641, -36576\}, \{-12192, 7873\}\}
w = \{-4, -4\}
rts=\{\{19,-1,-3,-4\},\{3,-1,2,3\},\{3,5,5,8\},\{1,-3,-2,-3\}\}
f = \{\{-1,0,0,0\}, \{-5144,-1,-65064,42016\}, \{-3970,0,1,0\}, \{-6148,0,0,1\}\}
No.25
L(n) = \{\{-4, 8\}, \{8, 12\}\}
g={{56641,36576},{12192,7873}}
w = \{1, 2\}
rts=\{\{5,-1,-1,2\},\{3,-5,-5,8\},\{5,-25,-13,21\},\{3,1,-11,17\}\}
f = \{\{-1, 54, 3196, 2064\}, \{0, -1, 0, 0\}, \{0, -195, 1, 0\}, \{0, 302, 0, 1\}\}
No.26
L(n) = \{\{4, 10\}, \{10, -4\}\}\
g={{370497401,-71351280},{-71351280,13741001}}
w = \{-1, 27\}
rts=\{\{5781,-1,25,22\},\{49,1,-7,2\},\{27,-1,7,-1\},\{47,5,-27,6\},
\{31,9,-19,5\},\{13,-1,-11,2\},\{3,3,-4,1\},\{37,-17,27,-3\},\{11,1,4,-1\},
{3,1,5,-1}
f = \{\{-1, 142498, -30122, 5750\}, \{0, -1, 0, 0\}, \{0, -543, 1, 0\}, \{0, -2795, 0, 1\}\}
No.27
L(n) = \{\{6,9\}, \{9,-6\}\}
g = \{\{109, -33\}, \{-33, 10\}\}
w = \{3, -3\}
rts={{64,-2,-4,-3},{26,7,3,14},{4,2,1,4}}
```

```
f = \{\{3, -1, -6, -9\}, \{-1, 0, 0, 0\}, \{-1, 0, 1, 0\}, \{0, 0, 0, 1\}\}
No.28
L(n) = \{\{10,5\}, \{5,-10\}\}\
g = \{\{10946, -6765\}, \{-6765, 4181\}\}
w = \{-2, 3\}
rts = \{ \{36, -4, 5, 4\}, \{7, 3, -2, -4\}, \{4, -1, 1, 1\}, \{6, -1, -1, -1\}, \{2, -3, -2, -3\} \}
f = \{\{0, -1, 0, 0\}, \{-1, -5, -55, 35\}, \{0, -3, 1, 0\}, \{0, -5, 0, 1\}\}
No.29
L(n)=\{\{8,8\},\{8,-8\}\}
g = \{\{985, -408\}, \{-408, 169\}\}
w = \{3, 0\}
rts=\{\{7,-1,1,1\},\{1,5,-2,-5\}\}
f = \{\{1,0,0,0\}, \{-36,1,-408,168\}, \{15,0,1,0\}, \{36,0,0,1\}\}
No.30
L(n) = \{\{4,8\}, \{8,-16\}\}\
g = \{\{985, -816\}, \{-204, 169\}\}
w = \{2, 2\}
rts=\{\{15,1,-1,-2\},\{5,3,-2,-3\},\{3,-1,-1,-1\}\}
f = \{\{-224, -1, 1040, -864\}, \{-1, 0, 0, 0\}, \{76, 0, 1, 0\}, \{92, 0, 0, 1\}\}
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g={{985,816},{204,169}}
w = \{0, 3\}
rts=\{\{97,1,5,-2\},\{9,1,2,-2\},\{3,1,1,-1\}\}
f = \{\{-16, 1, -192, -160\}, \{1, 0, 0, 0\}, \{-14, 0, 1, 0\}, \{17, 0, 0, 1\}\}
No.32
L(n) = \{\{4, 10\}, \{10, -8\}\}\
q = \{\{1977, -736\}, \{-368, 137\}\}
w = \{2, 3\}
rts=\{\{5,1,-1,-3\},\{23,-3,3,5\},\{3,1,0,1\}\}
f = \{\{668, -1, 1966, -728\}, \{-1, 0, 0, 0\}, \{64, 0, 1, 0\}, \{171, 0, 0, 1\}\}
No.33
L(n) = \{\{-4, 10\}, \{10, 8\}\}\
g={{1977,736},{368,137}}
w = \{-2, -4\}
rts=\{\{173,7,-13,23\},\{11,3,-4,10\},\{3,-1,1,-3\}\}
f = \{\{176, 1, 484, 176\}, \{1, 0, 0, 0\}, \{16, 0, 1, 0\}, \{-42, 0, 0, 1\}\}
No.34
L(n) = \{\{-4, 10\}, \{10, 12\}\}\
g = \{\{19417, 10512\}, \{3504, 1897\}\}
w = \{-3, -3\}
rts=\{\{25,1,-2,2\},\{1,-7,7,-13\}\}
f = \{\{-1,0,0,0\}, \{-162,-1,-3662,-1982\}, \{163,0,1,0\}, \{-301,0,0,1\}\}
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No.35
L(n) = \{\{-6, 9\}, \{9, 12\}\}
g={{16375393,9195648},{4597824,2581921}}
w = \{3, 3\}
\mathsf{rts} = \{\{127, 5, 10, -8\}, \{13, 4, 5, -8\}, \{4, -1, 1, -2\}, \{37, 83, 24, -28\},
{67,64,27,-28},{8,-7,1,-4},{5,5,2,-2}}
f = \{\{0,1,0,0\},\{1,228,-7731,-4341\},\{0,-351,1,0\},\{0,625,0,1\}\}
No.36
L(n) = \{\{4, 12\}, \{12, -4\}\}\
g = \{\{1405, -228\}, \{-228, 37\}\}
w = \{1, -2\}
rts=\{\{7,1,0,2\},\{7,-3,-1,-3\},\{1,1,0,-1\}\}
f = \{\{-162, 1, -1316, 212\}, \{1, 0, 0, 0\}, \{17, 0, 1, 0\}, \{104, 0, 0, 1\}\}
No.37
L(n) = \{\{-8, 8\}, \{8, 12\}\}
g={{1177,684},{456,265}}
w = \{-2, -3\}
rts=\{\{77,5,-8,8\},\{5,-5,5,-9\},\{5,-1,1,-2\}\}
f={{186,1,296,164},{1,0,0,0},{14,0,1,0},{-23,0,0,1}}
No.38
L(n) = \{\{-4, 10\}, \{10, 16\}\}\
g={{14953601,10490880},{2622720,1840001}}
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```
w = \{-3, -13\}
rts={{993,1,-14,10},{197,-3,1,8},{21,-3,8,2},{21,3,9,1},{3,1,1,0}}
f = \{\{-3962312, -1, -878770, -616454\}, \{-1, 0, 0, 0\}, \{48145, 0, 1, 0\}, \}
\{-68619,0,0,1\}
No.39
L(n) = \{\{4, 12\}, \{12, -8\}\}\
g = \{\{150841, -47760\}, \{-23880, 7561\}\}
w = \{-1, 3\}
rts=\{\{19,3,-2,-8\},\{7,3,-3,-10\},\{3,7,-3,-10\},\{1,-1,1,3\}\}
f = \{\{1,0,0,0\}, \{3334,1,88368,-27980\}, \{-2109,0,1,0\}, \{-6661,0,0,1\}\}
No.40
L(n) = \{\{-4, 12\}, \{12, 8\}\}
g={{150841,47760},{23880,7561}}
w = \{3, 3\}
rts=\{25,3,3,-7\},\{1,1,1,-3\},\{9,-9,-4,14\},\{1,3,1,-3\}\}
f = \{\{1,0,0,0\}, \{-2462,1,-37000,-11716\}, \{-883,0,1,0\}, \{2789,0,0,1\}\}
No.41
L(n) = \{\{12,6\}, \{6,-12\}\}
g = \{\{75025, -46368\}, \{-46368, 28657\}\}
w = \{-1, 2\}
rts=\{\{5,-1,1,1\},\{11,11,-8,-14\},\{17,11,-11,-19\},\{25,1,-16,-26\}\}
f = \{\{1, -114, -1584, 978\}, \{0, 1, 0, 0\}, \{0, 73, 1, 0\}, \{0, 118, 0, 1\}\}
```

```
No.42
L(n) = \{\{6, 12\}, \{12, -6\}\}\
g = \{\{98209, -23184\}, \{-23184, 5473\}\}
w = \{1, 1\}
rts=\{4,1,0,-1\},\{7,-7,2,6\},\{1,4,0,1\},\{11,-8,3,10\},\{1,-2,1,4\}\}
f = \{\{0, -1, 0, 0\}, \{-1, -372, 11766, -2778\}, \{0, 207, 1, 0\}, \{0, 877, 0, 1\}\}
No.43
L(n) = \{\{4, 10\}, \{10, -20\}\}\
q = \{\{90481, -77280\}, \{-15456, 13201\}\}
w = \{3, -3\}
rts=\{\{9,-1,-2,-2\},\{73,11,13,19\},\{7,-1,2,2\}\}
f={{4642,1,-17078,14590},{1,0,0,0},{1087,0,1,0},{1273,0,0,1}}
No.44
L(n) = \{\{-4, 10\}, \{10, 20\}\}\
g={{90481,77280},{15456,13201}}
w = \{-2, -1\}
rts=\{\{31,1,-4,0\},\{31,11,-9,6\},\{1,-9,5,-6\}\}
f = \{\{0, -1, 0, 0\}, \{-1, -198, -1758, -1500\}, \{0, 112, 1, 0\}, \{0, -131, 0, 1\}\}
No.45
L(n) = \{\{6, 9\}, \{9, -18\}\}\
g = \{\{10009, -7920\}, \{-2640, 2089\}\}\
w = \{-2, -3\}
```

```
rts=\{\{10,-2,-5,-6\},\{8,2,11,14\},\{4,-1,4,5\}\}
f = \{\{1185, 1, -23907, 18918\}, \{1,0,0,0\}, \{1376,0,1,0\}, \{1739,0,0,1\}\}
No.46
L(n) = \{\{-6, 9\}, \{9, 18\}\}\
g = \{\{10009, 7920\}, \{2640, 2089\}\}\
w = \{1, -1\}
rts=\{\{8,-2,1,-2\},\{16,-19,13,-18\},\{1,-16,11,-14\}\}
f = \{\{0,1,0,0\},\{1,381,-4551,-3600\},\{0,-262,1,0\},\{0,331,0,1\}\}
No.47
L(n) = \{\{8, 8\}, \{8, -16\}\}\
g = \{\{153, -112\}, \{-56, 41\}\}
w = \{0, 5\}
rts={{161,-3,11,11},{43,3,-8,-12},{3,-1,3,4}}
f = \{\{-8, -1, 8, -16\}, \{-1, 0, 0, 0\}, \{0, 0, 1, 0\}, \{1, 0, 0, 1\}\}
No.48
L(n) = \{\{4, 12\}, \{12, -12\}\}\
g = \{\{181, -84\}, \{-28, 13\}\}
w = \{1, 0\}
rts=\{\{25,1,12,-2\},\{5,1,6,-1\},\{7,-1,-7,1\}\}
f = \{\{-98, 1, -28, -84\}, \{1, 0, 0, 0\}, \{7, 0, 1, 0\}, \{0, 0, 0, 1\}\}
```

```
L(n) = \{\{-4, 12\}, \{12, 12\}\}\
g={{181,84},{28,13}}
w = \{-2, -2\}
rts=\{29,-3,1,-5\},\{7,-3,2,-5\},\{1,1,-1,2\}\}
f = \{\{8,1,56,24\},\{1,0,0,0\},\{2,0,1,0\},\{-4,0,0,1\}\}
No.50
L(n) = \{\{-8, 8\}, \{8, 16\}\}\
g={{153,112},{56,41}}
w = \{-5, 2\}
rts=\{\{139, -3, -4, 10\}, \{17, 3, 7, -9\}, \{7, -1, -2, 3\}\}
f = \{\{-4, -1, -8, 8\}, \{-1, 0, 0, 0\}, \{1, 0, 1, 0\}, \{0, 0, 0, 1\}\}
No.51
L(n) = \{\{10, 10\}, \{10, -10\}\}\
g = \{\{33461, -13860\}, \{-13860, 5741\}\}
w = \{-2, -15\}
rts=\{309,-1,-7,-13\},\{71,-1,-5,-11\},\{6,1,0,-1\}\}
f = \{\{-2835, 1, -6750, 2790\}, \{1,0,0,0\}, \{198,0,1,0\}, \{477,0,0,1\}\}
No.52
L(n)=\{\{8,12\},\{12,-8\}\}
g = \{\{1543321, -467280\}, \{-467280, 141481\}\}
w = \{3, 0\}
rts={{23,3,1,-3},{49,-33,12,26},{21,-33,9,23},{5,-3,2,6}}
```

```
No.53
L(n) = \{\{-4, 12\}, \{12, 16\}\}\
q={{1543321,934560},{233640,141481}}
w = \{21, -13\}
rts={{4895,-1,-12,-18},{1223,-1,6,-18},{865,-1,3,-13}}
f = \{\{-227446, -1, 46560, 28124\}, \{-1, 0, 0, 0\}, \{-1959, 0, 1, 0\}, \{3227, 0, 0, 1\}\}
No.54
L(n) = \{\{4, 14\}, \{14, -4\}\}\
g={{17217982601,-2411463600},{-2411463600,337737401}}
w = \{-13, 2\}
rts=\{\{23,-7,9,0\},\{3,5,1,-1\},\{9,-11,2,5\},\{27,19,0,16\},\{3,3,0,2\},
\{1,233,-2,-20\},\{1,9,0,-2\},\{9,-45,4,11\},\{1,-21,1,5\},\{1,7,0,-2\}\}
f={{1,0,0,0},{-34738,1,-131276,18382},{1263,0,1,0},{9016,0,0,1}}
No.55
L(n) = \{\{6, 12\}, \{12, -12\}\}\
g = \{\{854569, -384120\}, \{-192060, 86329\}\}\
w = \{-4, 6\}
rts=\{\{218,-1,5,4\},\{23,2,-7,-16\},\{4,-1,-1,-2\}\}
f={{10224,1,94824,-42624},{1,0,0,0},{-2900,0,1,0},{-6452,0,0,1}}
No.56
L(n) = \{\{-6, 12\}, \{12, 12\}\}\
```

 $f = \{\{1,2196,-39776,12044\},\{0,1,0,0\},\{0,835,1,0\},\{0,2758,0,1\}\}$

```
g={{854569,384120},{192060,86329}}
w = \{-9, 3\}
rts=\{\{64,2,5,-9\},\{1,4,9,-20\},\{2,4,5,-11\},\{5,-11,12,-27\},\{1,-5,4,-9\},
\{4,-17,5,-12\},\{1,4,-1,2\}\}
f = \{\{0,1,0,0\},\{1,-447,3894,1752\},\{0,119,1,0\},\{0,-265,0,1\}\}
No.57
L(n) = \{\{4, 12\}, \{12, -20\}\}\
q = \{\{809, -600\}, \{-120, 89\}\}
w = \{19, -16\}
rts=\{\{17,-1,-9,-12\},\{81,1,10,14\},\{117,5,12,19\},\{81,-17,16,12\},
\{7,-3,2,1\}\}
f = \{\{-14, -1, -28, 28\}, \{-1, 0, 0, 0\}, \{-1, 0, 1, 0\}, \{-2, 0, 0, 1\}\}
No.58
L(n) = \{\{-4, 12\}, \{12, 20\}\}\
g = \{\{809,600\},\{120,89\}\}\
w = \{-2, 9\}
rts={{183,3,20,-25},{57,3,19,-25},{43,1,7,-9}}
f = \{\{-10, 1, -44, -36\}, \{1, 0, 0, 0\}, \{-2, 0, 1, 0\}, \{3, 0, 0, 1\}\}
No.59
L(n) = \{\{4, 14\}, \{14, -8\}\}\
g = \{\{87881, -24160\}, \{-12080, 3321\}\}
w = \{-3, -4\}
rts=\{\{101,3,2,13\},\{9,-1,-2,-7\},\{7,1,-1,-4\}\}
```

```
f = \{\{3962, -1, -37508, 10310\}, \{-1, 0, 0, 0\}, \{-683, 0, 1, 0\}, \{-2484, 0, 0, 1\}\}
```

```
No.60
L(n) = \{\{-4, 14\}, \{14, 8\}\}
g={{87881,24160},{12080,3321}}
w = \{-26, -7\}
rts = \{\{9,1,-1,3\},\{11,-5,3,-12\},\{15,-17,4,-18\},\{1,13,1,-1\},
\{11,-23,3,-15\},\{3,-9,1,-5\},\{1,-5,1,-4\}\}
f = \{\{0, -1, 0, 0\}, \{-1, -8, -106, -28\}, \{0, 2, 1, 0\}, \{0, -7, 0, 1\}\}
No.61
L(n) = \{\{8, 12\}, \{12, -12\}\}\
g = \{\{3409, -1488\}, \{-992, 433\}\}\
w = \{-7, 29\}
rts={{2741,-1,17,22},{1091,-1,13,23},{963,-1,13,24}}
f = \{\{594, -1, 252, -72\}, \{-1, 0, 0, 0\}, \{9, 0, 1, 0\}, \{15, 0, 0, 1\}\}
No.62
L(n) = \{\{4, 12\}, \{12, -24\}\}\
g = \{ \{3409, -2976\}, \{-496, 433\} \}
w = \{-2, 2\}
rts=\{\{97,-1,5,1\},\{3,-1,1,1\}\}
f = \{\{-1,0,0,0\},\{32,-1,-496,432\},\{-28,0,1,0\},\{-32,0,0,1\}\}
No.63
```

 $L(n) = \{\{-4, 12\}, \{12, 24\}\}$

```
g={{3409,2976},{496,433}}
W = \{-14, 4\}
rts=\{\{219,1,7,-5\},\{3,1,-1,0\},\{47,-23,18,6\},\{19,-29,25,5\},\{1,1,-1,0\}\}
f = \{\{-280, 1, 400, 360\}, \{1, 0, 0, 0\}, \{22, 0, 1, 0\}, \{-26, 0, 0, 1\}\}
No.64
L(n) = \{\{-8, 12\}, \{12, 12\}\}
g = \{\{3409, 1488\}, \{992, 433\}\}
w = \{9, -15\}
rts=\{\{239,-1,6,-16\},\{109,-1,7,-17\},\{55,-1,4,-10\}\}
f = \{\{-354, -1, 948, 408\}, \{-1, 0, 0, 0\}, \{-27, 0, 1, 0\}, \{61, 0, 0, 1\}\}
No.65
L(n) = \{\{-4, 14\}, \{14, 12\}\}
g={{11832207126056839081,4793520994573980240},
{1597840331524660080,647324805384218521}}
w = \{-27, 17\}
rts=\{\{5783,-1,10,22\},\{37,-1,1,-4\},\{17,-3,-1,-2\},\{11,-11,-6,-2\},
\{11,-11,-7,-2\},\{1,1,1,0\},\{11,-11,-6,-2\},\{11,-11,-7,-2\},\{1,1,-1,0\},
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{11,-11,-6,-2},{11,-11,-7,-2},{1,1,-1,0},{11,-11,-6,-2},
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{253,21,25,-16},{1,1,1,0},{33,37,-11,14},{11,7,-3,5},{31,-3,-1,-3},
{37,9,-10,1},{5,-5,5,1},{1,1,-1,0},{3239,-1,12,14},{51,-1,-1,-2},
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{11,-11,-6,-2},{11,-11,-7,-2},{1,1,-1,0},{11,-11,-6,-2},
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{11,-11,-7,-2},{1,1,1,0},{11,-11,-6,-2},{11,-11,-7,-2},{1,1,-1,0},
\{11,-11,-6,-2\},\{11,-11,-7,-2\},\{21,253,-25,16\},\{1,1,-1,0\},
\{37,33,11,-14\},\{7,11,3,-5\},\{1,-5,0,-1\},\{21,251,26,-14\},\{5,-21,4,2\},
{1,1,1,0}}
f={{0,1,0,0},{1,94,174,62},{0,5,1,0},{0,-11,0,1}}
No.66
L(n) = \{\{6, 12\}, \{12, -18\}\}
g = \{\{223, -144\}, \{-48, 31\}\}
w = \{1, -3\}
rts = \{\{2, -1, -2, -3\}, \{10, 8, 8, 13\}, \{19, 10, 15, 24\}, \{1, -7, 1, 1\}\}
f={{1,-3,48,-30},{0,1,0,0},{0,-2,1,0},{0,-3,0,1}}
No.67
L(n) = \{\{-6, 12\}, \{12, 18\}\}
```

g={{223,144},{48,31}}

```
w = \{2, -2\}
rts=\{\{10,-1,1,-2\},\{2,2,-2,3\}\}
f = \{\{-1,0,0,0\},\{9,-1,222,144\},\{-9,0,1,0\},\{14,0,0,1\}\}
No.68
L(n) = \{\{8, 14\}, \{14, -8\}\}\
g = \{\{62177, -16512\}, \{-16512, 4385\}\}
w = \{14, -28\}
rts={{405,1,5,23},{5,1,0,-1},{3,5,1,-1},{1,15,-2,1}}
f={{1,0,0,0},{7136,1,-3272,904},{52,0,1,0},{204,0,0,1}}
No.69
L(n) = \{\{-4, 14\}, \{14, 16\}\}\
q = \{\{62177, 33024\}, \{8256, 4385\}\}
w = \{-9, -16\}
rts=\{\{97,-1,7,-14\},\{21,1,-7,13\},\{7,-1,-9,17\}\}
f = \{\{-98, -1, -3612, -1918\}, \{-1, 0, 0, 0\}, \{119, 0, 1, 0\}, \{-224, 0, 0, 1\}\}
No.70
L(n) = \{\{6, 15\}, \{15, -6\}\}\
g = \{\{509626, -98145\}, \{-98145, 18901\}\}
w = \{2, 3\}
rts=\{\{22,-1,1,3\},\{10,4,1,7\},\{2,-10,1,3\},\{1,2,0,-1\}\}
f = \{\{1,0,0,0\}, \{-89511,1,-535281,103083\}, \{6381,0,1,0\}, \{33133,0,0,1\}\}
```

```
No.71
L(n) = \{\{4, 16\}, \{16, -4\}\}\
g = \{\{4289, -528\}, \{-528, 65\}\}
w = \{12, -19\}
rts={{1769,1,-4,18},{579,1,0,17},{513,1,0,16}}
f = \{\{542, -1, 288, -4\}, \{-1, 0, 0, 0\}, \{4, 0, 1, 0\}, \{17, 0, 0, 1\}\}
No.72
L(n) = \{\{-8, 12\}, \{12, 16\}\}\
g={{3761,2112},{1056,593}}
w = \{-1, 1\}
rts=\{\{9,-7,-4,8\},\{1,-7,-5,9\}\}
f={{1,0,0,0},{392,1,8428,4732},{287,0,1,0},{-511,0,0,1}}
No.73
L(n) = \{\{4, 14\}, \{14, -20\}\}\
g={{222784849,-145548000},{-29109600,19017649}}
w = \{-4, 26\}
rts = \{\{1549, -1, 19, 23\}, \{979, 3, 19, -10\}, \{139, 1, 7, -2\}, \{137, 1, 8, -2\}, \}
\{25,-1,-9,1\}
f = \{\{92997784, 1, 9688708, -6329908\}, \{1, 0, 0, 0\}, \{-380998, 0, 1, 0\}, \}
{-583194,0,0,1}}
No.74
L(n) = \{\{-4, 14\}, \{14, 20\}\}\
g={{222784849,145548000},{29109600,19017649}}
w = \{-2, 22\}
```

```
rts={{4289,1,25,-19},{43,3,16,-24},{31,-1,11,-17}}
f = \{\{-1053320, -1, 9689212, 6330076\}, \{-1, 0, 0, 0\}, \{-381026, 0, 1, 0\}, \}
{583222,0,0,1}}
No.75
L(n) = \{\{12, 12\}, \{12, -12\}\}\
g = \{\{985, -408\}, \{-408, 169\}\}
w = \{2, -3\}
rts=\{\{5,-1,-1,-2\},\{5,11,0,3\},\{13,-1,3,7\},\{29,-7,7,15\},\{5,-1,1,2\}\}
f = \{\{-42, 1, -324, 132\}, \{1, 0, 0, 0\}, \{8, 0, 1, 0\}, \{19, 0, 0, 1\}\}
No.76
L(n) = \{\{6, 12\}, \{12, -24\}\}\
g = \{\{985, -816\}, \{-204, 169\}\}
w = \{-3, -2\}
rts=\{\{13,-1,-2,-2\},\{1,-2,-5,-6\}\}
f = \{\{-1,0,0,0\},\{-21,-1,-1086,900\},\{-53,0,1,0\},\{-64,0,0,1\}\}
No.77
L(n) = \{\{4, 16\}, \{16, -8\}\}\
g = \{\{1121, -272\}, \{-136, 33\}\}
w = \{-26, 4\}
rts={{17,1,1,-1},{45,-5,4,4},{13,-1,1,1}}
f = \{\{-16, -1, -32, 16\}, \{-1, 0, 0, 0\}, \{0, 0, 1, 0\}, \{-2, 0, 0, 1\}\}
```

```
L(n) = \{\{-4, 16\}, \{16, 8\}\}\
g={{1121,272},{136,33}}
w = \{30, 8\}
rts=\{\{65,5,6,-21\},\{1,1,1,-4\},\{5,-1,0,-1\},\{1,3,1,0\}\}
f = \{\{1,0,0,0\}, \{-16,1,-32,-16\}, \{0,0,1,0\}, \{2,0,0,1\}\}
No.79
L(n) = \{\{-6, 12\}, \{12, 24\}\}\
g={{985,816},{204,169}}
w = \{-1, -1\}
rts={{25,2,-3,1},{2,1,-1,1}}
f = \{\{1,0,0,0\}, \{-21,1,390,324\}, \{19,0,1,0\}, \{-23,0,0,1\}\}
No.80
L(n) = \{\{-4, 14\}, \{14, 24\}\}
q={{18935502762001,14618243592000},{2436373932000,1880885238001}}
w = \{26, -4\}
rts=\{\{275,-1,3,-7\},\{13,-1,0,-1\},\{99,29,26,-5\},\{21,17,8,-3\},
{5,-13,-1,3},{73,-73,6,18},{135,-87,19,23},{47,-25,7,7},{5,-7,3,1},
\{1,3,1,0\},\{1,-53,-9,12\},\{67,-49,-5,-14\},\{25,19,-9,4\},\{7,13,-4,3\},
\{1,3,-1,1\}\}
f = \{\{0, -1, 0, 0\}, \{-1, 733688, 4540488, 3505268\}, \{0, -205130, 1, 0\}, \}
{0,265712,0,1}}
No.81
L(n) = \{\{6, 15\}, \{15, -12\}\}\
q = \{\{8835201001, -3289180320\}, \{-1644590160, 612250201\}\}
```

No.78

```
w = \{0, -3\}
rts=\{\{5,1,1,3\},\{8,-1,-1,-2\},\{7,-5,-2,-1\},\{10,25,17,-4\},\{7,-7,12,-2\},
\{1,-11,-27,5\},\{61,-8,-19,2\},\{53,-5,-16,2\},\{4,-1,-1,0\},\{2,-1,-1,0\},
\{10,10,-5,2\},\{29,53,-24,8\},\{16,23,-13,4\},\{8,11,-7,2\},\{20,16,-15,4\},
\{2,-1,1,0\}\}
f={{1,12624,-16557,6177},{0,1,0,0},{0,357,1,0},{0,961,0,1}}
No.82
L(n) = \{\{-6, 15\}, \{15, 12\}\}\
g={{8835201001,3289180320},{1644590160,612250201}}
w = \{19, 22\}
rts = \{\{5591, 1, 24, -14\}, \{680, -1, 1, -12\}, \{25, -1, -3, -1\}, \{40, 5, 15, 2\}, \}
\{5,-1,5,1\},\{1,2,1,0\}\}
f = \{\{1,0,0,0\}, \{-140600097,1,-205483806,-76497795\}, \{-4438851,0,1,0\}, \}
{11923380,0,0,1}}
No.83
L(n) = \{\{10, 10\}, \{10, -20\}\}\
q = \{\{2131, -1560\}, \{-780, 571\}\}
w = \{-2, -1\}
rts=\{\{6,-1,-1,-1\},\{11,-6,-7,-9\},\{6,-1,-3,-4\}\}
f = \{\{220, 1, 2320, -1700\}, \{1, 0, 0, 0\}, \{-98, 0, 1, 0\}, \{-134, 0, 0, 1\}\}
No.84
L(n) = \{\{-10, 10\}, \{10, 20\}\}\
g={{2131,1560},{780,571}}
w = \{3, 3\}
rts={{136,19,25,-27},{2,3,3,-4},{2,-8,-5,7},{1,4,-3,4}}
```

```
f = \{\{-1,0,0,0\},\{130,-1,430,320\},\{-18,0,1,0\},\{25,0,0,1\}\}
No.85
L(n) = \{\{4, 16\}, \{16, -12\}\}\
g = \{\{12812766721, -4598488440\}, \{-1532829480, 550130881\}\}
w = \{-13, -12\}
 rts = \{\{151, 1, 4, 13\}, \{17, -1, -3, -8\}, \{31, 1, 1, 4\}, \{1, 5, 5, 14\}, \{1, 3, 1, 3\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1, 4, 13\}, \{1
 {1,5,0,1},{5,1,1,3}}
f = \{\{-138042594, 1, 1426080324, -511818720\}, \{1,0,0,0\}, \{-29354817,0,1,0\}, \}
\{-81791316,0,0,1\}
No.86
L(n) = \{\{-4, 16\}, \{16, 12\}\}\
g={{12812766721,4598488440},{1532829480,550130881}}
w = \{6, 10\}
 rts=\{\{191,-1,-2,9\},\{17,-1,2,-6\},\{5,-11,-1,-2\},\{7,7,2,-2\},
 {13,101,22,-1},{49,11,7,-13},{37,5,4,-7},{89,1,4,-1},{7,-1,0,1},
 \{5,-1,0,1\},\{5,-5,0,2\},\{23,-133,11,13\},\{31,-11,-7,22\},\{1,-7,-5,14\},
{9,1,1,-2}
f={{-12240,1,13352,4808},{1,0,0,0},{274,0,1,0},{-766,0,0,1}}
No.87
L(n) = \{\{4, 14\}, \{14, -28\}\}\
g = \{\{442961, -393120\}, \{-56160, 49841\}\}
w = \{9, 22\}
 rts=\{\{233,1,-18,-21\},\{83,1,-22,-25\},\{7,-1,-2,-2\},\{15,11,-1,-4\},
\{49,3,-9,-11\},\{5,-9,-3,-1\},\{3,-1,-1,0\}\}
f = \{\{0,1,0,0\},\{1,-722,2388,-2114\},\{0,-121,1,0\},\{0,-136,0,1\}\}
```

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No.88
L(n) = \{\{-4, 14\}, \{14, 28\}\}\
g={{442961,393120},{56160,49841}}
w = \{18, -24\}
rts={{2317,1,-26,23},{383,1,-18,19},{201,1,-10,10}}
f = \{\{-61928, 1, 55348, 49140\}, \{1, 0, 0, 0\}, \{2798, 0, 1, 0\}, \{-3154, 0, 0, 1\}\}
No.89
L(n) = \{\{16, 8\}, \{8, -16\}\}\
q = \{\{233, -144\}, \{-144, 89\}\}
w = \{2, 0\}
rts=\{\{9,1,0,-1\},\{13,3,-1,-3\},\{9,1,-1,-2\}\}
f = \{\{-32, 1, -112, 64\}, \{1, 0, 0, 0\}, \{4, 0, 1, 0\}, \{6, 0, 0, 1\}\}
No.90
L(n) = \{\{8, 16\}, \{16, -8\}\}\
g = \{\{305, -72\}, \{-72, 17\}\}
w = \{-3, -3\}
rts=\{3,-1,-1,-4\},\{5,3,1,5\},\{3,27,-1,3\},\{1,3,0,1\}\}
f = \{\{1,0,0,0\},\{80,1,120,-40\},\{-1,0,1,0\},\{-7,0,0,1\}\}
No.91
L(n) = \{\{4, 16\}, \{16, -16\}\}\
g = \{\{305, -144\}, \{-36, 17\}\}
```

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w = \{-18, 18\}
rts={{2301,1,1,-16},{247,-1,8,15},{21,1,-7,-15}}
f = \{\{-152, -1, 248, -128\}, \{-1, 0, 0, 0\}, \{6, 0, 1, 0\}, \{14, 0, 0, 1\}\}
No.92
L(n) = \{\{-4, 16\}, \{16, 16\}\}\
g={{305,144},{36,17}}
w = \{8, -28\}
rts={{6241,1,-25,26},{1593,1,-16,27},{1099,1,-15,27}}
f={{808,1,-472,-192},{1,0,0,0},{-14,0,1,0},{26,0,0,1}}
No.93
L(n) = \{\{10, 15\}, \{15, -10\}\}\
q = \{\{1543321, -467280\}, \{-467280, 141481\}\}
w = \{6, -6\}
rts=\{\{329,-4,-9,-14\},\{98,2,1,8\},\{14,1,1,4\},\{6,-1,1,3\},\{14,-14,8,25\},
\{2,-3,1,3\}\}
f = \{\{-1, 85, 3750, -1135\}, \{0, -1, 0, 0\}, \{0, 63, 1, 0\}, \{0, 208, 0, 1\}\}
No.94
L(n) = \{\{-6, 15\}, \{15, 18\}\}\
g={{19417,10512},{3504,1897}}
w = \{3, 3\}
rts=\{\{116,2,5,-4\},\{10,-1,0,1\},\{1,2,-1,0\}\}
f = \{\{1713, -1, 3519, 1914\}, \{-1, 0, 0, 0\}, \{-104, 0, 1, 0\}, \{193, 0, 0, 1\}\}
```

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No.95
L(n) = \{\{8, 12\}, \{12, -24\}\}\
g = \{\{10009, -7920\}, \{-2640, 2089\}\}\
w = \{4, 0\}
rts=\{\{13,1,0,-1\},\{3,-1,1,1\},\{7,3,-7,-9\},\{5,-1,-4,-5\}\}
f = \{\{-1, -80, 1576, -1248\}, \{0, -1, 0, 0\}, \{0, 68, 1, 0\}, \{0, 86, 0, 1\}\}
No.96
L(n) = \{\{4, 16\}, \{16, -20\}\}\
g = \{\{11329, -6600\}, \{-1320, 769\}\}\
w = \{-1, 12\}
rts=\{83,1,-6,-11\},\{11,1,-4,-7\},\{19,5,-9,-16\}\}
f = \{\{98, -1, -1540, 896\}, \{-1, 0, 0, 0\}, \{-49, 0, 1, 0\}, \{-84, 0, 0, 1\}\}
No.97
L(n) = \{\{-4, 16\}, \{16, 20\}\}\
g={{11329,6600},{1320,769}}
w = \{-15, -4\}
rts=\{\{235, -3, -2, -7\}, \{41, -9, 10, -19\}, \{7, -1, 1, -2\}\}
f = \{\{-222, 1, 732, 432\}, \{1, 0, 0, 0\}, \{23, 0, 1, 0\}, \{-40, 0, 0, 1\}\}
No.98
L(n) = \{\{-8, 12\}, \{12, 24\}\}\
g = \{\{10009, 7920\}, \{2640, 2089\}\}\
w = \{2, 1\}
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rts=\{\{29,15,8,-5\},\{3,5,2,-2\}\}
f = \{\{1,0,0,0\}, \{-500,1,-3940,-3120\}, \{-170,0,1,0\}, \{215,0,0,1\}\}
No.99
L(n) = \{\{4, 18\}, \{18, -4\}\}\
q={{322766369353,-35430783696},{-35430783696,3889316089}}
w = \{-22, 5\}
rts=\{383, -7, 10, 17\}, \{671, -1, -4, -20\}, \{9, 1, 18, -2\}, \{1, -7, 2, 0\}\}
f = \{\{1,0,0,0\}, \{24155777718,1,13776665686,-1512295328\},
{-82015726,0,1,0},{-747144599,0,0,1}}
No.100
L(n) = \{\{-12, 10\}, \{10, 20\}\}\
g = \{\{251904801961, 177153918480\}, \{106292351088, 74750883481\}\}
w = \{15, -29\}
rts=\{\{509,1,-20,27\},\{13,-1,-1,2\},\{149,-61,5,28\},\{33,-55,-1,14\},
{33,23,10,-2},{75,29,16,-8},{27,-25,-4,-7},{1,13,3,1},{1,-7,2,1},
{1,13,3,-4},{7,-65,8,-14},{1,55,-8,11}}
f = \{\{1,0,0,0\}, \{-56154,1,209262,147170\}, \{7981,0,1,0\}, \{-11349,0,0,1\}\}
No.101
L(n) = \{\{-4, 16\}, \{16, 24\}\}\
g={{143809,99288},{16548,11425}}
w = \{-6, -11\}
rts=\{\{17,1,-7,10\},\{11,-1,20,-29\},\{1,-5,2,-3\},\{1,7,-1,1\}\}
f = \{\{1,0,0,0\}, \{-3628,1,11312,7816\}, \{416,0,1,0\}, \{-603,0,0,1\}\}
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No.102
L(n) = \{\{-8, 16\}, \{16, 12\}\}\
g={{143809,49644},{33096,11425}}
w = \{-19, 14\}
rts=\{\{41,1,6,-17\},\{75,-3,19,5\},\{13,1,-9,-2\},\{7,-1,-4,-1\},\{1,3,-1,0\},
\{1,-5,4,1\}\}
f = \{\{-1,0,0,0\},\{29556,-1,-11048,-3864\},\{201,0,1,0\},\{-590,0,0,1\}\}
No.103
L(n) = \{\{-4, 18\}, \{18, 8\}\}
q={{977002954001,212000424000},{106000212000,23001046001}}
w = \{29, -15\}
rts=\{\{31,1,-4,18\},\{9,-1,1,-5\},\{9,9,2,-6\},\{13,15,3,-8\},
{39,57,10,-23}, {37,21,6,-16}, {7,9,2,-7}, {21,-21,-2,16}, {3,-1,0,1},
\{1,87,-2,5\},\{1,-15,0,-2\},\{15,-45,0,13\},\{7,-5,-1,6\},\{1,-5,0,1\}\}
f={{1,0,0,0},{623552,1,1007646,218638},{11589,0,1,0},{-53405,0,0,1}}
No.104
L(n) = \{\{6, 18\}, \{18, -6\}\}\
g = \{\{1405, -228\}, \{-228, 37\}\}\
w = \{-1, 3\}
rts=\{\{26,1,0,-3\},\{29,4,-1,-10\},\{4,1,0,-1\}\}
f = \{\{162, -1, -1272, 204\}, \{-1, 0, 0, 0\}, \{-11, 0, 1, 0\}, \{-67, 0, 0, 1\}\}
No.105
L(n) = \{\{-12, 12\}, \{12, 18\}\}\
g={{1177,684},{456,265}}
```

```
w = \{1, 3\}
rts=\{\{7,-1,-1,2\},\{7,2,2,-3\},\{5,-1,1,-2\}\}
f = \{\{-81, -1, 552, 318\}, \{-1, 0, 0, 0\}, \{-17, 0, 1, 0\}, \{29, 0, 0, 1\}\}
No.106
L(n) = \{\{4, 16\}, \{16, -28\}\}\
g={{4859521,-3867360},{-552480,439681}}
w = \{-12, -3\}
rts=\{\{63,-1,-4,-4\},\{35,-3,-10,-12\},\{19,-1,-12,-15\},\{23,-9,-18,-22\},
\{1,-1,-4,-5\}
f = \{\{0, -1, 0, 0\}, \{-1, -3902, -489616, 389652\}, \{0, -20312, 1, 0\}, \}
\{0,-25523,0,1\}\}
No.107
L(n) = \{\{-4, 16\}, \{16, 28\}\}\
g={{4859521,3867360},{552480,439681}}
w = \{-22, 16\}
rts=\{\{153,1,14,-17\},\{27,-1,-7,9\},\{5,1,-1,1\},\{1,1,-4,5\}\}
f = \{\{1,0,0,0\}, \{-5944,1,601896,479008\}, \{24970,0,1,0\}, \{-31376,0,0,1\}\}
No.108
L(n) = \{\{-6, 15\}, \{15, 24\}\}\
g = \{\{251124823660801, 176179663349760\},
{44044915837440,30900244473601}}
w = \{-30, -21\}
rts=\{\{5191,1,-27,11\},\{103,5,11,-1\},\{1,-7,-17,-3\},\{11,11,19,3\},
\{37,-14,-29,-6\},\{26,-5,-21,-4\},\{5,-5,-4,-1\},\{1,2,-1,0\}\}
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f = \{\{-1, 0, 0, 0\}, \{-3571987128834, -1, -4405319923077, -3090605578842\},
{160890499922,0,1,0},{-229331794903,0,0,1}}
No.109
L(n) = \{\{4, 18\}, \{18, -12\}\}\
g = \{ \{570878281, -183723120\}, \{-61241040, 19708921\} \}
w = \{-21, 12\}
rts=\{\{19,-1,3,9\},\{1,-1,-1,-3\},\{17,21,-8,-27\},\{5,7,-2,-7\},
{3,-3,-2,-6}, {19,-7,-5,-14}, {7,-1,-2,-6}
f = \{\{1328734, 1, 23659964, -7614378\}, \{1, 0, 0, 0\}, \{-394787, 0, 1, 0\}, \}
{-1226712,0,0,1}}
No.110
L(n) = \{\{-4, 18\}, \{18, 12\}\}\
g={{570878281,183723120},{61241040,19708921}}
w = \{20, -12\}
rts={{3383,-1,-8,-15},{635,11,-24,18},{79,-3,4,3}}
f = \{\{33697944, 1, -20386260, -6560784\}, \{1,0,0,0\}, \{-340164,0,1,0\}, \}
{1056978,0,0,1}}
No.111
L(n) = \{\{12, 12\}, \{12, -20\}\}\
g = \{ \{7741, -4900\}, \{-2940, 1861\} \}
w = \{-22, 29\}
rts = \{\{1433, 1, -7, -18\}, \{7, -1, 2, 3\}, \{31, -9, 11, 16\}, \{45, -179, 29, 16\}, \}
\{1,-9,1,1\},\{5,-5,2,0\}\}
f = \{\{1, 10, -12, 20\}, \{0, 1, 0, 0\}, \{0, 0, 1, 0\}, \{0, 1, 0, 1\}\}
```

```
No.112
L(n) = \{\{8, 16\}, \{16, -16\}\}\
g = \{\{8721, -3920\}, \{-1960, 881\}\}
w = \{-4, -4\}
rts={{287,3,3,14},{25,1,2,5},{19,1,1,3}}
f = \{\{-1072, 1, 2864, -1280\}, \{1, 0, 0, 0\}, \{-66, 0, 1, 0\}, \{-146, 0, 0, 1\}\}
No.113
L(n) = \{\{4, 16\}, \{16, -32\}\}\
g = \{\{8721, -7840\}, \{-980, 881\}\}
w = \{-2, 14\}
rts={{1149,1,-7,-13},{51,-1,11,12},{23,-1,10,11}}
f = \{\{-120, -1, -744, 672\}, \{-1, 0, 0, 0\}, \{-34, 0, 1, 0\}, \{-38, 0, 0, 1\}\}
No.114
L(n) = \{\{-4, 16\}, \{16, 32\}\}\
g={{8721,7840},{980,881}}
w = \{-29, -15\}
rts=\{\{23,1,-10,11\},\{1,1,-9,10\},\{1,1,-1,1\},\{37,-131,-3,19\},
{7,31,-6,3},{3,27,-4,1}}
f = \{\{1,0,0,0\}, \{-190,1,212,208\}, \{9,0,1,0\}, \{-11,0,0,1\}\}
No.115
L(n) = \{\{-8, 16\}, \{16, 16\}\}\
g={{8721,3920},{1960,881}}
w = \{1, 3\}
```

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rts=\{\{141,3,6,-7\},\{5,1,1,-2\}\}
f = \{\{-1,0,0,0\},\{-76,-1,2920,1312\},\{-67,0,1,0\},\{149,0,0,1\}\}
No.116
L(n) = \{\{-12, 12\}, \{12, 20\}\}\
g={{7741,4900},{2940,1861}}
w = \{-13, -7\}
rts=\{\{9,-1,1,-2\},\{5,-3,3,-5\},\{19,-3,8,-13\},\{33,1,14,-22\}\}
f={{1,200,2568,1624},{0,1,0,0},{0,83,1,0},{0,-131,0,1}}
No.117
L(n) = \{\{-4, 18\}, \{18, 16\}\}\
g = \{\{15100164490562065, 6408946218109056\},
{1602236554527264,680035499816689}}
w = \{-23, -14\}
rts = \{\{145, -1, 4, -11\}, \{49, -1, 4, -10\}, \{7, 1, 1, -2\}, \{9, 5, 2, -3\}, \}
\{17,17,5,-7\},\{15,-21,-2,9\},\{9,-7,-2,6\},\{3,15,-2,3\},\{59,-43,-11,-10\},
{15,-3,-3,-1},{29,-5,-4,-2},{97,1,7,0},{7,-1,9,1},{1,7,19,2},
\{7,-5,-7,-1\},\{1,1,-1,0\}\}
f = \{\{1,0,0,0\}, \{-225490257218,1,358772873712,152273576474\},
{7730519595,0,1,0},{-18213933074,0,0,1}}
No.118
L(n) = \{\{6, 18\}, \{18, -12\}\}\
q=\{\{379,-120\},\{-60,19\}\}
w = \{-1, -2\}
rts=\{\{11,2,1,4\},\{2,-2,-1,-3\}\}
f = \{\{-1,0,0,0\}, \{-24,-1,-756,240\}, \{-12,0,1,0\}, \{-38,0,0,1\}\}
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No.119
L(n) = \{\{-6, 18\}, \{18, 12\}\}\
g = \{\{379, 120\}, \{60, 19\}\}\
w = \{0, 1\}
rts=\{\{7,2,1,-2\},\{1,2,1,-3\}\}
f={{1,0,0,0},{-24,1,-756,-240},{-12,0,1,0},{38,0,0,1}}
No.120
L(n) = \{\{18, 9\}, \{9, -18\}\}\
g = \{\{75025, -46368\}, \{-46368, 28657\}\}
w = \{-2, -1\}
rts=\{\{8,1,1,2\},\{5,2,3,5\},\{5,7,2,4\},\{2,-5,1,1\},\{1,10,-3,-5\},
\{20,14,-3,-8\},\{29,14,-3,-9\},\{28,10,-3,-8\},\{20,5,-2,-5\},\{10,1,-1,-2\}\}
f = \{\{-1, 36, -126, 72\}, \{0, -1, 0, 0\}, \{0, -4, 1, 0\}, \{0, -6, 0, 1\}\}
No.121
L(n) = \{\{6, 15\}, \{15, -30\}\}\
g = \{\{90481, -77280\}, \{-15456, 13201\}\}
w = \{1, -1\}
rts=\{46,-2,-4,-1\},\{77,-31,-24,-22\},\{4,7,4,5\}\}
f = \{\{0, -1, 0, 0\}, \{-1, -297, -4266, 3645\}, \{0, -181, 1, 0\}, \{0, -212, 0, 1\}\}
No.122
L(n) = \{\{-6, 15\}, \{15, 30\}\}\
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```
g={{90481,77280},{15456,13201}}
w = \{2, 2\}
rts=\{\{92,1,4,-1\},\{91,2,6,-5\},\{16,-1,0,-1\}\}
f = \{\{-13068, 1, -15048, -12870\}, \{1,0,0,0\}, \{-638,0,1,0\}, \{748,0,0,1\}\}
No.123
L(n) = \{\{-10, 15\}, \{15, 20\}\}\
g={{71298457361,40037849280},{20018924640,11241683441}}
w = \{-55, -38\}
rts={{4159,-1,2,-22},{127,-7,16,7},{13,-3,6,2},{67,-42,25,12},
\{1,-9,0,1\},\{2,3,1,0\}\}
f = \{\{1,0,0,0\}, \{660343135,1,1250848700,702417595\}, \{34072259,0,1,0\}, \}
\{-60675074,0,0,1\}\}
No.124
L(n) = \{\{12, 12\}, \{12, -24\}\}
g={{5757961,-4215120},{-2107560,1542841}}
w = \{-5, 5\}
rts={{451,-5,16,10},{1,-5,11,15}}
f={{1,0,0,0},{11250,1,702000,-513900},{-24725,0,1,0},{-33775,0,0,1}}
No.125
L(n) = \{\{6, 18\}, \{18, -18\}\}\
g = \{\{6811741, -3161340\}, \{-1053780, 489061\}\}
w = \{-6, -9\}
rts=\{34,1,4,9\},\{4,2,6,13\},\{5,5,5,11\},\{4,-10,8,17\},\{2,-1,1,2\},
\{20,7,-7,-16\},\{2,-1,-1,-2\},\{38,23,-12,-29\},\{13,-16,-6,-11\},
\{1,-4,-1,-2\}
```

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f = \{\{-1,0,0,0\}, \{-4497,-1,-39594,18378\}, \{-884,0,1,0\}, \{-1905,0,0,1\}\}
No.126
L(n) = \{\{-6, 18\}, \{18, 18\}\}\
g={{6811741,3161340},{1053780,489061}}
w = \{-3, -1\}
rts=\{\{5,-2,0,-1\},\{8,5,-2,3\},\{13,-121,13,7\},\{5,-5,-1,3\},\{16,7,4,-7\},
\{10,10,3,-4\},\{1,4,1,-2\},\{5,-2,0,1\}\}
f = \{\{1,87399,36990,17118\},\{0,1,0,0\},\{0,828,1,0\},\{0,-1779,0,1\}\}
No.127
L(n) = \{\{-12, 12\}, \{12, 24\}\}\
g={{5757961,4215120},{2107560,1542841}}
w = \{-3, -3\}
rts=\{\{53,17,-20,25\},\{97,-17,15,-25\},\{13,-1,2,-3\}\}
f={{313638,1,1377960,1008732},{1,0,0,0},{48533,0,1,0},
\{-66297,0,0,1\}
No.128
L(n) = \{\{8, 16\}, \{16, -24\}\}\
g = \{\{56641, -36576\}, \{-12192, 7873\}\}
w = \{4, -7\}
rts=\{\{15,-1,-4,-6\},\{3,-1,-2,-3\},\{11,7,-4,-7\},\{1,-5,2,3\}\}
f = \{\{-1,0,0,0\}, \{-556,-1,7344,-4744\}, \{224,0,1,0\}, \{347,0,0,1\}\}
```

```
L(n) = \{\{-8, 16\}, \{16, 24\}\}\
g={{56641,36576},{12192,7873}}
w = \{6, 4\}
rts=\{\{3,1,2,-3\},\{7,-7,-18,28\},\{1,5,-2,3\}\}
f = \{\{96, -1, 7408, 4784\}, \{-1, 0, 0, 0\}, \{-226, 0, 1, 0\}, \{350, 0, 0, 1\}\}
No.130
L(n) = \{\{8,20\},\{20,-8\}\}\
g={{370497401,-71351280},{-71351280,13741001}}
w = \{-3, 3\}
rts=\{\{81,-1,2,2\},\{33,3,0,5\},\{23,9,-2,4\},\{9,11,0,5\},\{1,3,0,-1\},
\{7,-3,-1,-4\},\{23,-5,-2,-5\},\{3,9,2,-1\},\{9,29,8,-3\},\{19,11,18,-4\},
\{1,-3,1,0\}\}
f = \{\{0,1,0,0\},\{1,-10900,-13900,2660\},\{0,125,1,0\},\{0,645,0,1\}\}
No.131
L(n) = \{\{12, 18\}, \{18, -12\}\}\
g = \{\{1543321, -467280\}, \{-467280, 141481\}\}
w = \{-6, 4\}
rts=\{\{17,-1,1,2\},\{17,17,-8,-28\},\{7,1,-3,-10\}\}
f = \{ \{7464, -1, -224208, 67884\}, \{-1, 0, 0, 0\}, \{-3138, 0, 1, 0\}, \{-10364, 0, 0, 1\} \}
No.132
L(n) = \{\{-6, 18\}, \{18, 24\}\}\
g={{1543321,934560},{233640,141481}}
w = \{28, -3\}
```

```
rts=\{\{1412,-1,-5,-8\},\{13,1,-2,0\},\{1,-8,13,2\},\{1,-11,6,1\}\}
f={{1,0,0,0},{-271644,1,-46758,-28440},{-1304,0,1,0},{2163,0,0,1}}
No.133
L(n) = \{\{6,21\},\{21,-6\}\}\
q = \{\{6624850, -927843\}, \{-927843, 129949\}\}
w = \{29, 20\}
rts={{12772,1,21,-27},{4408,1,4,-27},{3224,1,5,-20}}
f = \{\{-1031667, 1, -132159, 18339\}, \{1,0,0,0\}, \{855,0,1,0\}, \{6049,0,0,1\}\}
No.134
L(n) = \{\{20, 10\}, \{10, -20\}\}\
q={{2504730781961,-1548008755920},{-1548008755920,956722026041}}
w = \{-127, 64\}
rts = \{\{801, 1, 4, 12\}, \{3, -3, 5, 8\}, \{3, -13, -4, -6\}, \{3, 3, 0, 1\}, \{3, -13, 2, 0\},
\{1,11,0,-1\}\}
f = \{\{-1, 0, 0, 0\}, \{13482369190, -1, -20364599640, 12586014730\}, \}
{-562863691,0,1,0},{-910732582,0,0,1}}
No.135
L(n) = \{\{10, 20\}, \{20, -10\}\}\
g={{3278735159921,-774004377960},{-774004377960,182717648081}}
w = \{8, 16\}
rts=\{\{4,1,-4,-17\},\{27,3,-2,2\},\{2,-12,9,-2\},\{6,-16,14,-3\},
{9,-11,7,-1},{1,-21,-1,-1},{6,9,-7,2},{33,12,-9,4},{74,4,-23,6},
\{6,1,-4,1\},\{1,-4,17,-4\},\{3,-33,-3,-11\},\{6,-21,-5,-20\},\{116,19,0,21\},
{4,1,0,1}}
f = \{\{-12055, 1, 17560, -4130\}, \{1, 0, 0, 0\}, \{-186, 0, 1, 0\}, \{-785, 0, 0, 1\}\}
```

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No.136
L(n) = \{\{6, 18\}, \{18, -30\}\}\
g = \{ \{726481, -538800\}, \{-107760, 79921\} \}
w = \{3, 8\}
rts={{11,-1,6,8},{19,2,-14,-19},{5,8,-8,-11},{1,-4,3,4}}
f={{1,0,0,0},{10725,1,264954,-196506},{-8753,0,1,0},{-11802,0,0,1}}
No.137
L(n) = \{\{-6, 18\}, \{18, 30\}\}\
g={{726481,538800},{107760,79921}}
w = \{-28, 21\}
rts = \{\{29, -1, -17, 23\}, \{13, 1, 6, -8\}, \{13, 5, 7, -9\}, \{16, 29, 10, -11\}, \}
{34,65,23,-26},{1,7,1,-1},{2,1,3,-4}}
f = \{\{1047, -1, -47706, -35382\}, \{-1, 0, 0, 0\}, \{1576, 0, 1, 0\}, \{-2125, 0, 0, 1\}\}
No.138
L(n) = \{\{16, 16\}, \{16, -16\}\}\
g={{1136689,-470832},{-470832,195025}}
w = \{4, 2\}
rts=\{\{17,1,-1,-3\},\{3,3,-2,-5\},\{1,-31,10,24\},\{3,-3,1,2\}\}
f={{-1,0,0,0},{-21952,-1,385344,-159616},{7054,0,1,0},{17030,0,0,1}}
No.139
L(n) = \{\{8, 16\}, \{16, -32\}\}\
g={{1136689,-941664},{-235416,195025}}
```

```
w = \{0, 6\}
rts=\{\{99,-1,5,5\},\{105,-7,-10,-7\},\{7,-5,-3,0\}\}
f = \{\{137664, -1, -228768, 189504\}, \{-1, 0, 0, 0\}, \{-8376, 0, 1, 0\}, \}
\{-10110,0,0,1\}
No.140
L(n) = \{\{-8, 16\}, \{16, 32\}\}\
g={{1136689,941664},{235416,195025}}
w = \{-11, -18\}
rts={{2447,1,-18,12},{145,-1,12,-15},{93,-1,7,-9}}
f = \{\{17476, 1, 38968, 32272\}, \{1,0,0,0\}, \{1427,0,1,0\}, \{-1722,0,0,1\}\}
No.141
L(n) = \{\{6,21\},\{21,-12\}\}\
g = \{ \{730977003801241, -200958164040480 \}, \}
{-100479082020240,27623429659561}}
w = \{27, 14\}
rts=\{\{127,-1,5,17\},\{64,1,1,-2\},\{53,17,25,-5\},\{77,19,26,-6\},
{25,13,15,-3},{5,-17,-10,1},{4,16,-13,2},{16,20,-25,4},{5,7,-5,1},
{440,1,7,28}}
f = \{\{1, -11832395808, 16998187236, -4673094324\}, \{0, 1, 0, 0\}, \}
\{0, -206322156, 1, 0\}, \{0, -750488300, 0, 1\}\}
No.142
L(n) = \{\{-6, 21\}, \{21, 12\}\}\
g = \{ \{730977003801241, 200958164040480 \}, \}
{100479082020240,27623429659561}}
w = \{-12, -4\}
```

```
rts={{200,2,-5,4},{101,5,-5,11},{64,13,-9,28},{58,19,-9,26},
\{10,40,-5,4\},\{19,28,-5,8\},\{5,-5,0,-2\},\{50,-10,3,-16\},\{47,29,8,-15\},
\{5,4,1,-2\},\{23,-25,-8,-4\},\{1,2,1,0\},\{10,-1,-29,-4\},\{22,-8,-27,-4\},
\{2,1,1,0\},\{1,-5,0,-1\},\{5,-2,1,-4\}\}
f = \{\{-17703, -1, 316278, 86949\}, \{-1, 0, 0, 0\}, \{-3839, 0, 1, 0\}, \{13964, 0, 0, 1\}\}
No.143
L(n) = \{\{10, 15\}, \{15, -30\}\}\
g = \{\{436, -345\}, \{-115, 91\}\}
w = \{-1, -2\}
rts=\{\{7,2,3,4\},\{2,-3,-4,-5\}\}
f={{1,0,0,0},{25,1,-985,780},{34,0,1,0},{43,0,0,1}}
No.144
L(n) = \{\{-10, 15\}, \{15, 30\}\}\
g = \{\{436,345\},\{115,91\}\}
W = \{1, 1\}
rts={{17,2,2,-1},{4,1,1,-1},{2,2,1,-1}}
f = \{\{-25, 1, -205, -165\}, \{1, 0, 0, 0\}, \{-7, 0, 1, 0\}, \{9, 0, 0, 1\}\}
No.145
L(n) = \{\{8, 20\}, \{20, -16\}\}\
g = \{\{1977, -736\}, \{-368, 137\}\}
w = \{-5, 3\}
rts=\{\{33,1,0,-2\},\{11,3,-2,-6\},\{9,1,-1,-3\}\}
f = \{\{48, -1, -300, 108\}, \{-1, 0, 0, 0\}, \{-5, 0, 1, 0\}, \{-13, 0, 0, 1\}\}
```

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No.146
L(n) = \{\{-8, 20\}, \{20, 16\}\}\
g={{1977,736},{368,137}}
w = \{1, -2\}
rts=\{\{11,-3,2,-6\},\{1,3,-3,8\}\}
f = \{\{1,0,0,0\},\{108,1,-6480,-2412\},\{-105,0,1,0\},\{282,0,0,1\}\}
No.147
L(n) = \{\{12, 18\}, \{18, -18\}\}\
g={{211303,-92232},{-61488,26839}}
w = \{6, -8\}
rts=\{\{209,1,1,6\},\{8,-2,1,1\},\{2,-8,1,1\},\{56,4,15,-5\},\{10,2,2,-1\},
\{5,7,6,-2\},\{7,-1,-1,0\}\}
f = \{\{-24696, 1, -30312, 13212\}, \{1,0,0,0\}, \{570,0,1,0\}, \{1304,0,0,1\}\}
No.148
L(n) = \{\{6, 18\}, \{18, -36\}\}\
g = \{\{211303, -184464\}, \{-30744, 26839\}\}
w = \{-30, 7\}
rts={{263,7,-10,-17},{23,-8,17,19},{16,-4,9,10}}
f = \{\{-603, 1, 6786, -5922\}, \{1, 0, 0, 0\}, \{-255, 0, 1, 0\}, \{-292, 0, 0, 1\}\}
No.149
L(n) = \{\{-6, 18\}, \{18, 36\}\}\
g={{211303,184464},{30744,26839}}
w = \{16, -16\}
```

```
rts = \{\{13, 1, -14, 16\}, \{34, -1, 13, -15\}, \{1, 2, 1, -1\}, \{8, -4, 1, -2\}, \}
\{1,-32,13,-15\}\}
f = \{\{0, -1, 0, 0\}, \{-1, -37263, -405804, -354258\}, \{0, 15245, 1, 0\}, \}
\{0,-17463,0,1\}\}
No.150
L(n) = \{\{-12, 18\}, \{18, 18\}\}\
g={{211303,92232},{61488,26839}}
w = \{-3, -5\}
 rts={{80,2,-4,7},{77,5,-8,16},{52,1,-5,11}}
f = \{\{-8604, -1, -42156, -18396\}, \{-1, 0, 0, 0\}, \{792, 0, 1, 0\}, \{-1814, 0, 0, 1\}\}
No.151
L(n) = \{\{-6, 21\}, \{21, 18\}\}\
g={{2199211,890955},{296985,120316}}
w = \{-3, 13\}
 rts=\{80,-1,-5,13\},\{47,-1,-8,20\},\{16,-1,-1,3\},\{2,-1,-2,5\}\}
f = \{\{-1,0,0,0\}, \{-9501,-1,1163079,471192\}, \{-20110,0,1,0\},
{49639,0,0,1}}
No.152
L(n) = \{\{12, 21\}, \{21, -12\}\}\
g = \{\{4138625473, -1099071744\}, \{-1099071744, 291874369\}\}
w = \{30, -6\}
 rts={{470,10,5,-21},{25,-1,1,2},{20,1,1,-1},{1,5,-1,-4}}
f = \{\{1,0,0,0\}, \{-7028235,1,-135686565,36033525\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489803,0,1,0\}, \{1489
 {5609949,0,0,1}}
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No.153
L(n) = \{\{-6, 21\}, \{21, 24\}\}\
g={{4138625473,2198143488},{549535872,291874369}}
w = \{-27, -17\}
\mathsf{rts} = \{ \{1183, -1, 3, -13\}, \{4, 1, 1, 0\}, \{14, -13, -9, -2\}, \{1, 2, -1, 0\}, \}
{13,-13,-20,-3},{26,-4,-29,-4},{11,-1,-7,-1}}
f={{857331822,1,137930457,73258698},{1,0,0,0},{3028886,0,1,0},
\{-5702721,0,0,1\}
No.154
L(n) = \{\{-8, 20\}, \{20, 24\}\}\
g={{19417,10512},{3504,1897}}
w = \{4, 4\}
rts=\{\{27,1,2,-3\},\{17,-1,-2,4\},\{37,1,-4,7\}\}
f = \{\{656, -1, 3064, 1664\}, \{-1, 0, 0, 0\}, \{-68, 0, 1, 0\}, \{126, 0, 0, 1\}\}
No.155
L(n) = \{\{10, 20\}, \{20, -20\}\}\
g = \{\{8721, -3920\}, \{-1960, 881\}\}
w = \{-2, 3\}
rts={{182,-2,5,4},{62,-2,3,4},{49,-1,2,3}}
f = \{\{-1150, -1, -1880, 860\}, \{-1, 0, 0, 0\}, \{-34, 0, 1, 0\}, \{-77, 0, 0, 1\}\}
No.156
L(n) = \{\{-10, 20\}, \{20, 20\}\}\
```

```
g={{8721,3920},{1960,881}}
w = \{0, 2\}
rts=\{\{4,1,1,-2\},\{29,-4,-5,12\},\{6,1,-1,2\}\}
f = \{\{1000, -1, 9160, 4120\}, \{-1, 0, 0, 0\}, \{-168, 0, 1, 0\}, \{374, 0, 0, 1\}\}
No.157
L(n) = \{\{6, 24\}, \{24, -6\}\}\
q = \{\{18674305, -2298912\}, \{-2298912, 283009\}\}
W = \{12, 1\}
rts={{37,2,0,-5},{25,-1,1,7},{35,13,-1,9},{2,2,0,1}}
f = \{\{-1,0,0,0\},\{160368,-1,1555368,-191472\},\{7740,0,1,0\},
{62872,0,0,1}}
No.158
L(n) = \{\{-12, 18\}, \{18, 24\}\}\
g={{16375393,9195648},{4597824,2581921}}
w = \{5, 0\}
rts=\{\{13,1,-1,1\},\{13,-1,-5,9\},\{5,19,-4,6\},\{1,-5,1,-2\}\}
f = \{\{1,0,0,0\}, \{459258,1,-4158912,-2335446\}, \{-94405,0,1,0\}, \}
{168114,0,0,1}}
No.159
L(n) = \{\{6,21\},\{21,-30\}\}\
g = \{\{574, -375\}, \{-75, 49\}\}
w = \{-15, 10\}
rts=\{37,-2,10,15\},\{2,-4,17,26\},\{4,-2,17,26\},\{4,-10,19,29\}\}
f = \{\{-1, 3, 75, -48\}, \{0, -1, 0, 0\}, \{0, 2, 1, 0\}, \{0, 3, 0, 1\}\}
```

```
No.160
L(n) = \{\{-6, 21\}, \{21, 30\}\}\
g={{574,375},{75,49}}
w = \{19, -1\}
rts={{529,-1,-4,-4},{164,1,-4,3},{82,1,-3,3}}
f = \{\{-36, -1, -54, -18\}, \{-1, 0, 0, 0\}, \{2, 0, 1, 0\}, \{-2, 0, 0, 1\}\}
No.161
L(n) = \{\{8,24\},\{24,-8\}\}
g={{2026009,-328776},{-328776,53353}}
w = \{-3, -4\}
rts=\{\{63,5,3,22\},\{5,-1,-1,-6\},\{21,-5,-3,-17\},\{19,5,-2,-14\},
\{1,3,0,-1\}\}
f={{47484,1,846984,-137448},{1,0,0,0},{-5433,0,1,0},{-33480,0,0,1}}
No.162
L(n) = \{\{-16, 16\}, \{16, 24\}\}\
g={{1697233,986328},{657552,382129}}
w = \{2, 3\}
rts=\{\{7,-1,-1,2\},\{33,13,7,-9\},\{47,-1,8,-14\}\}
f = \{\{-76628, -1, 575056, 334184\}, \{-1, 0, 0, 0\}, \{-13210, 0, 1, 0\}, \}
{22731,0,0,1}}
No.163
L(n) = \{\{18, 18\}, \{18, -18\}\}\
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```
g={{1311738121,-543339720},{-543339720,225058681}}
w = \{-12, 12\}
rts = \{\{2158, -4, 22, 19\}, \{220, -2, 5, 6\}, \{4, -2, 1, 0\}, \{2, 5, 0, -1\}\}
f = \{\{-1,0,0,0\},\{16980831,-1,-74951046,31045734\},\{-1219592,0,1,0\},
{-2944355,0,0,1}}
No.164
L(n) = \{\{6,24\},\{24,-12\}\}\
g={{1492851361,-362226480},{-181113240,43945441}}
w = \{24, -25\}
rts=\{\{52,1,5,21\},\{1,-2,1,4\},\{1,-4,-1,-4\},\{14,10,3,14\},\{13,4,3,13\},
\{4,-1,1,4\},\{5,-17,2,6\},\{22,-14,7,27\},\{23,-20,7,26\},\{1,-2,1,4\}\}
f = \{\{-1,0,0,0\}, \{-806004,-1,51286500,-12444192\}, \{488854,0,1,0\}, \}
{2014724,0,0,1}}
No.165
L(n) = \{\{-6, 24\}, \{24, 12\}\}\
q={{1492851361,362226480},{181113240,43945441}}
w = \{11, 26\}
rts=\{\{502,-1,-5,24\},\{62,-10,-3,18\},\{35,-22,3,7\},\{11,5,2,-1\},
\{7,-4,-1,-1\},\{1,4,1,0\}\}
f = \{\{1,0,0,0\}, \{474222504,1,-93232416,-22621848\}, \{-888680,0,1,0\}, \}
{3662514,0,0,1}}
No.166
L(n) = \{\{-8, 20\}, \{20, 32\}\}\
g = \{\{14953601, 10490880\}, \{2622720, 1840001\}\}\
w = \{-1, -2\}
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```
rts=\{\{95,7,-10,11\},\{1,-7,2,-3\},\{5,-1,7,-10\}\}
f = \{\{121180, 1, 6151456, 4315628\}, \{1, 0, 0, 0\}, \{168497, 0, 1, 0\}, \}
{-240174,0,0,1}}
No.167
L(n) = \{\{-6, 21\}, \{21, 36\}\}\
g = \{\{18935502762001, 14618243592000\}, \{2436373932000, 1880885238001\}\}
w = \{-28, 22\}
rts=\{\{1339,1,20,-23\},\{425,1,17,-21\},\{19,-1,0,-1\},\{58,13,11,-2\},
\{2,1,1,0\},\{17,29,17,1\},\{16,5,17,2\},\{25,1,16,2\},\{10,-11,1,2\},
\{5,1,-1,1\}\}
f = \{\{-1, 8189427009, 42002370018, 32425908315\}, \{0, -1, 0, 0\}, \}
\{0, -1265055169, 1, 0\}, \{0, 1638668524, 0, 1\}\}
No.168
L(n) = \{\{6,24\},\{24,-18\}\}\
g = \{\{110839, -39780\}, \{-13260, 4759\}\}
w = \{12, 28\}
rts=\{\{37,1,-10,-28\},\{58,7,6,19\},\{11,4,1,4\},\{7,-2,1,2\},\{13,25,-2,4\},
\{5,7,0,2\},\{19,-16,-4,-5\},\{43,-16,-8,-3\},\{2,4,0,1\},\{4,-1,-1,0\},
{4,2,0,-1},{1,5,-1,-3}
f = \{\{1,0,0,0\},\{102,1,-810,294\},\{11,0,1,0\},\{31,0,0,1\}\}
No.169
L(n) = \{\{-6, 24\}, \{24, 18\}\}\
g = \{\{110839, 39780\}, \{13260, 4759\}\}
w = \{19, 4\}
rts=\{244,1,6,-1\},\{73,1,2,-2\},\{29,-1,-1,-1\}\}
```

```
No.170
 L(n) = \{\{6,21\},\{21,-42\}\}\
q = \{\{5608, -4977\}, \{-711, 631\}\}
w = \{5, 5\}
 rts=\{58,1,-4,-5\},\{19,2,-6,-7\},\{4,-1,-1,-1\}\}
 f = \{\{-732, -1, 6054, -5376\}, \{-1, 0, 0, 0\}, \{204, 0, 1, 0\}, \{230, 0, 0, 1\}\}
No.171
L(n) = \{\{-6, 21\}, \{21, 42\}\}\
g={{5608,4977},{711,631}}
w = \{21, 16\}
 rts=\{\{205,-1,-10,12\},\{20,-2,-15,17\},\{17,-5,-14,16\},\{22,-16,-18,21\},
 \{2,-20,-1,2\},\{1,2,-1,1\}\}
 f = \{\{1,0,0,0\}, \{-228,1,-204,-210\}, \{-6,0,1,0\}, \{8,0,0,1\}\}
No.172
L(n) = \{\{10, 20\}, \{20, -30\}\}\
g = \{\{14386591, -9290160\}, \{-3096720, 1999711\}\}
w = \{6, -18\}
 rts={{654,1,8,15},{987,-3,-20,-24},{23,-2,-3,0}}
 f = \{\{-1540490, 1, -1027810, 663670\}, \{1,0,0,0\}, \{25087,0,1,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, 
 {38847,0,0,1}}
```

f={{-5955,-1,4428,1554},{-1,0,0,0},{-62,0,1,0},{169,0,0,1}}

```
L(n) = \{\{-10, 20\}, \{20, 30\}\}\
g={{14386591,9290160},{3096720,1999711}}
w = \{7, 6\}
rts=\{\{139,-4,-9,16\},\{17,-2,-5,8\},\{19,1,4,-6\},\{3,2,2,-3\},
\{17, -7, -6, 10\}, \{11, -11, -6, 10\}, \{19, 39, -10, 12\}, \{3, 3, -1, 1\}\}
f = \{\{1,0,0,0\}, \{-13015,1,98500,63610\}, \{2404,0,1,0\}, \{-3723,0,0,1\}\}
No.174
L(n) = \{\{8,24\},\{24,-16\}\}
q = \{\{150841, -47760\}, \{-23880, 7561\}\}
w = \{-3, -2\}
rts=\{49,-3,-3,-7\},\{1,9,6,19\}\}
f = \{\{1,0,0,0\}, \{-1332,1,74664,-23640\}, \{-891,0,1,0\}, \{-2814,0,0,1\}\}
No.175
L(n) = \{\{-8, 24\}, \{24, 16\}\}\
g={{150841,47760},{23880,7561}}
w = \{-7, 0\}
rts=\{\{29,21,8,-22\},\{175,-21,-1,23\},\{7,-1,0,1\}\}
f = \{\{-16036, -1, -22824, -7208\}, \{-1, 0, 0, 0\}, \{273, 0, 1, 0\}, \{-860, 0, 0, 1\}\}
No.176
L(n) = \{\{24, 12\}, \{12, -24\}\}\
g = \{\{75025, -46368\}, \{-46368, 28657\}\}
w = \{-17, -7\}
rts=\{\{539,-1,-9,-12\},\{13,1,0,-1\},\{373,13,-8,-26\},\{19,-31,-14,7\},
\{1,-11,-1,0\}\}
```

```
f = \{\{0,1,0,0\},\{1,-7932,8796,-5412\},\{0,-203,1,0\},\{0,-327,0,1\}\}
No.177
L(n) = \{\{12, 24\}, \{24, -12\}\}\
g = \{\{98209, -23184\}, \{-23184, 5473\}\}
w = \{2, -3\}
rts={{283,-5,-7,-11},{23,-1,-1,-3},{5,1,0,-1}}
f={{-6546,1,-28848,6804},{1,0,0,0},{254,0,1,0},{1075,0,0,1}}
No.178
L(n) = \{\{8,20\},\{20,-40\}\}\
g = \{\{90481, -77280\}, \{-15456, 13201\}\}
w = \{3, 5\}
rts=\{35,1,-4,-5\},\{7,5,-11,-13\},\{5,-1,-6,-7\}\}
f = \{\{2564, 1, 101884, -87020\}, \{1,0,0,0\}, \{-3243,0,1,0\}, \{-3797,0,0,1\}\}
No.179
L(n) = \{\{6, 24\}, \{24, -24\}\}\
g = \{\{98209, -46368\}, \{-11592, 5473\}\}
w = \{20, 9\}
rts=\{\{56,1,-5,-11\},\{11,1,-8,-17\},\{8,4,-7,-15\},\{1,-2,-1,-2\},
\{4,8,-1,-3\},\{1,-13,2,4\}\}
f = \{\{-1,0,0,0\},\{-732,-1,6144,-2904\},\{108,0,1,0\},\{229,0,0,1\}\}
```

```
L(n) = \{\{-6, 24\}, \{24, 24\}\}\
g={{98209,46368},{11592,5473}}
w = \{27, 13\}
rts=\{\{686,1,7,-9\},\{59,-1,-4,9\},\{47,-1,-2,5\}\}
f = \{\{1023, 1, -2766, -1296\}, \{1,0,0,0\}, \{-49,0,1,0\}, \{103,0,0,1\}\}
No.181
L(n) = \{\{-8, 20\}, \{20, 40\}\}\
g={{90481,77280},{15456,13201}}
w = \{-7, 4\}
rts={{397,-1,-1,5},{639,-3,-9,16},{117,-1,-1,3}}
f = \{\{-23724, 1, 15336, 13140\}, \{1,0,0,0\}, \{487,0,1,0\}, \{-572,0,0,1\}\}
No.182
L(n) = \{\{10, 25\}, \{25, -10\}\}\
g = \{\{701, -135\}, \{-135, 26\}\}
w = \{-1, -1\}
rts=\{\{6,1,0,1\},\{1,-6,-1,-5\}\}
f = \{\{-1,0,0,0\}, \{-25,-1,-565,110\}, \{-4,0,1,0\}, \{-21,0,0,1\}\}
No.183
L(n) = \{\{12, 18\}, \{18, -36\}\}\
g = \{\{10009, -7920\}, \{-2640, 2089\}\}\
w = \{-2, 2\}
rts={{7,-1,1,1},{1,19,-15,-19}}
f = \{\{-1,0,0,0\},\{96,-1,-2640,2088\},\{-76,0,1,0\},\{-96,0,0,1\}\}
```

```
No.184
L(n) = \{\{6,24\},\{24,-30\}\}\
g = \{\{11329, -6600\}, \{-1320, 769\}\}\
w = \{5, -23\}
rts={{136,1,12,21},{1028,-1,-14,-21},{1019,-1,-15,-23}}
f = \{\{-36, -1, 18, -54\}, \{-1, 0, 0, 0\}, \{-1, 0, 1, 0\}, \{1, 0, 0, 1\}\}
No.185
L(n) = \{\{-6, 24\}, \{24, 30\}\}\
g={{11329,6600},{1320,769}}
w = \{-8, 13\}
rts=\{\{53,-2,-15,26\},\{13,1,3,-5\},\{4,-2,1,-2\}\}
f={{1956,1,24114,14046},{1,0,0,0},{511,0,1,0},{-877,0,0,1}}
No.186
L(n) = \{\{-12, 18\}, \{18, 36\}\}\
g={{10009,7920},{2640,2089}}
w = \{4, 2\}
rts=\{\{17,-1,0,1\},\{1,7,4,-5\}\}
f = \{\{1,0,0,0\}, \{-120,1,-2364,-1872\}, \{-68,0,1,0\}, \{86,0,0,1\}\}
No.187
L(n) = \{\{6, 27\}, \{27, -6\}\}\
g = \{\{6805, -747\}, \{-747, 82\}\}
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```
w = \{26, -7\}
rts={{2729,4,-22,19},{64,-1,-1,-4},{47,1,0,4}}
f = \{\{333, 1, -438, 69\}, \{1, 0, 0, 0\}, \{1, 0, 1, 0\}, \{16, 0, 0, 1\}\}
No.188
L(n) = \{\{-18, 15\}, \{15, 30\}\}\
g={{5311,3735},{2241,1576}}
w = \{-16, -28\}
rts=\{\{886,-1,10,-17\},\{112,-1,11,-16\},\{40,8,7,-8\},\{10,5,2,-1\},
{31,20,7,-4},{4,-4,0,1},{10,11,-3,2},{4,2,-1,1}
f = \{\{1, 15, -195, -135\}, \{0, 1, 0, 0\}, \{0, -5, 1, 0\}, \{0, 7, 0, 1\}\}
No.189
L(n) = \{\{16, 16\}, \{16, -32\}\}\
q = \{\{29681, -21728\}, \{-10864, 7953\}\}
w = \{6, -1\}
rts={{225,-9,13,6},{57,-9,8,8},{9,-1,1,1}}
f={{3664,1,-6448,4736},{1,0,0,0},{170,0,1,0},{233,0,0,1}}
No.190
L(n) = \{\{8,24\}, \{24,-24\}\}
g={{35113,-16296},{-5432,2521}}
w = \{-2, 2\}
rts={{225,-3,7,4},{17,-1,1,1},{13,1,0,1}}
f = \{\{-3904, 1, 8096, -3744\}, \{1, 0, 0, 0\}, \{-136, 0, 1, 0\}, \{-292, 0, 0, 1\}\}
```

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No.191
L(n) = \{\{-8, 24\}, \{24, 24\}\}\
g={{35113,16296},{5432,2521}}
w = \{6, 0\}
rts=\{\{11,-1,0,-1\},\{19,11,-5,9\},\{5,1,-1,2\}\}
f={{624,-1,6096,2832},{-1,0,0,0},{-102,0,1,0},{220,0,0,1}}
No.192
L(n) = \{\{-16, 16\}, \{16, 32\}\}\
g={{29681,21728},{10864,7953}}
w = \{1, -3\}
rts=\{\{15,-1,2,-3\},\{39,-9,14,-20\},\{9,1,3,-4\}\}
f = \{\{2776, -1, -35776, -26192\}, \{-1, 0, 0, 0\}, \{945, 0, 1, 0\}, \{-1291, 0, 0, 1\}\}
No.193
L(n) = \{\{-6, 24\}, \{24, 36\}\}\
g={{143809,99288},{16548,11425}}
w = \{-3, 28\}
rts=\{\{37,1,18,-26\},\{7,-1,-2,3\},\{43,-17,-14,22\},\{52,-35,-17,28\},
\{5,-1,-2,3\},\{19,31,-10,12\},\{20,22,-9,11\},\{1,-7,2,-3\}\}
f = \{\{-1,0,0,0\},\{-378,-1,-4644,-3204\},\{114,0,1,0\},\{-165,0,0,1\}\}
No.194
L(n) = \{\{-12, 24\}, \{24, 18\}\}\
g = \{\{143809, 49644\}, \{33096, 11425\}\}
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```
w = \{24, -16\}
rts={{2492,1,-11,19},{146,-1,7,-21},{109,-1,6,-18}}
f = \{\{-2136, -1, 10584, 3648\}, \{-1, 0, 0, 0\}, \{-130, 0, 1, 0\}, \{376, 0, 0, 1\}\}
No.195
L(n) = \{\{20, 20\}, \{20, -20\}\}\
g = \{\{33461, -13860\}, \{-13860, 5741\}\}
w = \{-2, 0\}
rts={{9,1,0,1},{51,9,3,11},{9,-1,1,2}}
f = \{\{-2480, -1, -15440, 6400\}, \{-1, 0, 0, 0\}, \{-226, 0, 1, 0\}, \{-546, 0, 0, 1\}\}
No.196
L(n) = \{\{10, 20\}, \{20, -40\}\}\
q = \{\{33461, -27720\}, \{-6930, 5741\}\}
w = \{2, 5\}
rts={{202,-2,9,9},{53,-3,12,14},{14,-6,7,8},{38,-58,21,21},
\{2,-2,1,1\}\}
f = \{\{0, -1, 0, 0\}, \{-1, -360, 1440, -1200\}, \{0, 42, 1, 0\}, \{0, 51, 0, 1\}\}
No.197
L(n) = \{\{-10, 20\}, \{20, 40\}\}\
g={{33461,27720},{6930,5741}}
w = \{-2, 6\}
rts=\{\{17,-2,-9,11\},\{46,1,3,-3\},\{3,2,1,0\}\}
f = \{\{-6680, -1, 13440, 11120\}, \{-1, 0, 0, 0\}, \{-394, 0, 1, 0\}, \{475, 0, 0, 1\}\}
```

```
No.198
 L(n) = \{\{-6, 27\}, \{27, 12\}\}
g = \{\{977006862014770009908001, 212001272002120000848000\},
 {106000636001060000424000,23001138005230006092001}}
decomposition for g is unclear
No.199
L(n) = \{\{10, 25\}, \{25, -20\}\}\
g = \{\{8835201001, -3289180320\}, \{-1644590160, 612250201\}\}
w = \{-19, 27\}
  rts={{10669,-1,24,19},{2067,2,-11,12},{369,1,-8,3},{168,-2,-5,-2},
 \{61,-1,-2,-1\}
 f = \{\{252998420, -1, -205482415, 76497230\}, \{-1, 0, 0, 0\}, \{-2663294, 0, 1, 0\}, \{-1, 0, 0, 0\}, \{-2663294, 0, 1, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 0, 0\}, \{-1, 0, 
 \{-7153979,0,0,1\}
No.200
 L(n) = \{\{-10, 25\}, \{25, 20\}\}\
g={{8835201001,3289180320},{1644590160,612250201}}
w = \{18, -6\}
  rts=\{\{3628,-2,-7,-20\},\{164,-4,-9,-4\},\{22,2,3,0\},\{86,-1,9,2\},
 \{41,-1,10,2\}\}
 f = \{\{4334557635, 1, -410934120, -152982795\}, \{1,0,0,0\}, \{-5326197,0,1,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, 
 {14306886,0,0,1}}
No.201
 L(n) = \{\{6, 24\}, \{24, -42\}\}\
g={{4859521,-3867360},{-552480,439681}}
w = \{25, -18\}
```

```
rts={{457,1,10,14},{352,-1,-15,-18},{155,2,-5,-8}}
f = \{\{-94791, 1, -138642, 110316\}, \{1,0,0,0\}, \{3835,0,1,0\}, \{4818,0,0,1\}\}
No.202
L(n) = \{\{-6, 24\}, \{24, 42\}\}
g={{4859521,3867360},{552480,439681}}
w = \{-15, 25\}
rts=\{\{70,-1,-19,24\},\{13,2,-12,15\},\{14,-4,-11,14\},\{4,1,-4,5\},
\{8,50,-10,11\},\{1,5,-1,1\}\}
f = \{\{-1,0,0,0\},\{328404,-1,1105188,879552\},\{-30566,0,1,0\},
{38408,0,0,1}}
No.203
L(n) = \{\{16, 24\}, \{24, -16\}\}\
q = \{\{1543321, -467280\}, \{-467280, 141481\}\}
w = \{30, -29\}
rts=\{\{1449,1,3,19\},\{935,1,-4,-19\},\{823,-15,-29,-9\},\{31,7,11,-4\},
\{3,-3,-10,3\},\{1,7,-3,1\}\}
f = \{\{1,0,0,0\},\{138872,1,-46536,14176\},\{486,0,1,0\},\{1615,0,0,1\}\}
No.204
L(n) = \{\{-8, 24\}, \{24, 32\}\}\
g={{1543321,934560},{233640,141481}}
w = \{14, 9\}
rts={{431,1,6,-6},{3,1,1,0},{431,1,8,-11},{107,1,7,-11},
{431,1,8,-11}}
f = \{\{-77328, 1, -76920, -46608\}, \{1,0,0,0\}, \{-1614,0,1,0\}, \{2667,0,0,1\}\}
```

```
No.205
 L(n) = \{\{6,27\},\{27,-18\}\}
g = \{\{811, -261\}, \{-87, 28\}\}
w = \{26, 5\}
 rts=\{\{997,1,2,-8\},\{1030,-1,7,7\},\{800,-1,6,7\}\}
 f = \{\{-756, 1, 198, 54\}, \{1,0,0,0\}, \{-6,0,1,0\}, \{-6,0,0,1\}\}
No.206
 L(n) = \{\{-6, 27\}, \{27, 18\}\}\
g = \{\{811, 261\}, \{87, 28\}\}
w = \{-12, -16\}
 rts={{4862,1,-16,13},{1028,1,-7,14},{613,1,-6,14}}
 f = \{\{-513, -1, -441, -108\}, \{-1, 0, 0, 0\}, \{6, 0, 1, 0\}, \{-15, 0, 0, 1\}\}
No.207
 L(n) = \{\{8, 28\}, \{28, -8\}\}\
g={{17217982601,-2411463600},{-2411463600,337737401}}
w = \{-1, 15\}
 rts=\{\{43,1,-2,-15\},\{3,-9,-1,-6\},\{11,23,-3,-24\},\{11,17,-2,-17\},
 \{27,33,-3,-29\},\{13,9,-1,-10\},\{11,23,-3,-24\},\{3,9,-1,-8\},
 \{21,23,-3,-26\},\{13,9,-1,-10\},\{9,-13,3,20\},\{1,17,0,2\},\{1,15,0,2\},
 {3,-1,1,7}
 f = \{\{-1, -28732, -1947604, 272772\}, \{0, -1, 0, 0\}, \{0, -9367, 1, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0
 \{0,-66881,0,1\}\}
```

```
L(n) = \{\{18, 18\}, \{18, -30\}\}\
g = \{ \{758539, -480150\}, \{-288090, 182359\} \}
w = \{13, 3\}
rts={{226,-1,5,6},{10,-1,2,3},{73,1,17,27}}
f={{8676,-1,94356,-59724},{-1,0,0,0},{2032,0,1,0},{3210,0,0,1}}
No.209
L(n) = \{\{12,24\}, \{24,-24\}\}
g={{854569,-384120},{-192060,86329}}
W = \{-3, 0\}
rts={{53,17,2,11},{1,-19,-5,-11}}
f = \{\{-1,0,0,0\}, \{-17370,-1,-296172,133128\}, \{-4529,0,1,0\},
\{-10076,0,0,1\}
No.210
L(n) = \{\{6, 24\}, \{24, -48\}\}\
g = \{\{854569, -768240\}, \{-96030, 86329\}\}
w = \{22, 11\}
rts=\{796, -1, 13, 12\}, \{284, 1, -7, -9\}, \{35, -1, -2, -1\}\}
f = \{\{-104400, -1, 95112, -85536\}, \{-1, 0, 0, 0\}, \{2908, 0, 1, 0\}, \{3236, 0, 0, 1\}\}
No.211
L(n) = \{\{-6, 24\}, \{24, 48\}\}\
g={{854569,768240},{96030,86329}}
w = \{15, -2\}
rts=\{\{325,1,-6,3\},\{1,2,-9,10\}\}
```

```
No.212
L(n) = \{\{-12, 24\}, \{24, 24\}\}
q={{854569,384120},{192060,86329}}
w = \{2, -1\}
 rts={{83,-5,1,-7},{17,-7,2,-6},{7,1,1,-2}}
f = \{\{-53580, 1, -474504, -213288\}, \{1,0,0,0\}, \{-7256,0,1,0\}, \{16143,0,0,1\}\}
No.213
L(n) = \{\{-18, 18\}, \{18, 30\}\}\
g={{758539,480150},{288090,182359}}
w = \{-11, -7\}
 rts=\{\{49,1,-2,2\},\{16,5,-6,9\},\{16,-1,-5,8\}\}
f = \{\{-3888, -1, -57672, -36504\}, \{-1, 0, 0, 0\}, \{1242, 0, 1, 0\}, \{-1962, 0, 0, 1\}\}
No.214
L(n) = \{\{-6, 27\}, \{27, 24\}\}
q = \{\{15100164490562065, 6408946218109056\},
{1602236554527264,680035499816689}}
w = \{7, 15\}
 rts=\{\{23,1,6,-14\},\{7,1,-3,7\},\{2,5,-1,2\},\{8,-4,-5,12\},\{28,-1,-11,26\},
 {4,-8,-5,12}, {8,1,1,-2}, {5,2,1,-2}, {4,2,1,-2}, {5,-5,1,-3},
\{10, -8, 1, -4\}, \{2, 4, -1, 2\}, \{5, -5, 1, -3\}, \{8, -10, 1, -4\}, \{4, 2, 1, -2\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 
 \{5,-5,1,-3\},\{10,-8,1,-4\},\{2,4,-1,2\},\{5,-5,1,-3\},\{8,-10,1,-4\},
\{4,2,1,-2\},\{5,-5,1,-3\},\{10,-8,1,-4\},\{2,4,-1,2\},\{5,-5,1,-3\},
\{8,-10,1,-4\},\{4,2,1,-2\},\{5,-5,1,-3\},\{10,-8,1,-4\},\{2,4,-1,2\}
\{5,-5,1,-3\},\{8,-10,1,-4\},\{4,2,1,-2\},\{5,-5,1,-3\},\{10,-8,1,-4\},
\{2,4,-1,2\},\{5,-5,1,-3\},\{8,-10,1,-4\},\{4,2,1,-2\},\{5,-5,1,-3\},
{10,-8,1,-4},{2,4,-1,2},{5,-5,1,-3},{8,-10,1,-4},{4,2,1,-2},
{5,-5,1,-3},{10,-8,1,-4},{2,4,-1,2},{5,-5,1,-3},{8,-10,1,-4},
```

 $f = \{\{-1,0,0,0\},\{645,-1,94854,85272\},\{-2901,0,1,0\},\{3227,0,0,1\}\}$

```
{4,2,1,-2},{5,-5,1,-3},{10,-8,1,-4},{2,4,-1,2},{5,-5,1,-3},
{8,-10,1,-4},{4,2,1,-2},{5,-5,1,-3},{10,-8,1,-4},{2,4,-1,2},
{5,-5,1,-3},{8,-10,1,-4},{4,2,1,-2},{5,-5,1,-3},{10,-8,1,-4},
\{2,4,-1,2\},\{5,-5,1,-3\},\{8,-10,1,-4\},\{4,2,1,-2\},\{5,-5,1,-3\},
\{10, -8, 1, -4\}, \{2, 4, -1, 2\}, \{5, -5, 1, -3\}, \{8, -10, 1, -4\}, \{4, 2, 1, -2\}
\{5,-5,1,-3\},\{10,-8,1,-4\},\{2,4,-1,2\},\{5,-5,1,-3\},\{8,-10,1,-4\},
{4,2,1,-2},{5,-5,1,-3},{10,-8,1,-4},{2,4,-1,2},{5,-5,1,-3},
\{8,-10,1,-4\},\{4,2,1,-2\},\{5,-5,1,-3\},\{10,-8,1,-4\},\{2,4,-1,2\},
\{5,-5,1,-3\},\{8,-10,1,-4\},\{4,2,1,-2\},\{5,-5,1,-3\},\{10,-8,1,-4\},
\{2,4,-1,2\},\{5,-5,1,-3\},\{8,-10,1,-4\},\{4,2,1,-2\},\{5,-5,1,-3\},
\{10, -8, 1, -4\}, \{2, 4, -1, 2\}, \{5, -5, 1, -3\}, \{8, -10, 1, -4\}, \{4, 2, 1, -2\},
\{5,-5,1,-3\},\{10,-8,1,-4\},\{2,4,-1,2\},\{5,-5,1,-3\},\{8,-10,1,-4\},
\{4,2,1,-2\},\{5,-5,1,-3\},\{10,-8,1,-4\},\{2,4,-1,2\},\{5,-5,1,-3\},
{8,-10,1,-4},{4,2,1,-2},{5,-5,1,-3},{10,-8,1,-4},{2,4,-1,2},
\{5,-5,1,-3\},\{8,-10,1,-4\},\{4,2,1,-2\},\{5,-5,1,-3\},\{10,-8,1,-4\},
\{2,4,-1,2\},\{5,-5,1,-3\},\{8,-10,1,-4\},\{4,2,1,-2\},\{5,-5,1,-3\},
\{10, -8, 1, -4\}, \{2, 4, -1, 2\}, \{5, -5, 1, -3\}, \{8, -10, 1, -4\}, \{4, 2, 1, -2\}
\{5,-5,1,-3\},\{10,-8,1,-4\},\{2,4,-1,2\},\{5,-5,1,-3\},\{8,-10,1,-4\},
\{4,2,1,-2\},\{5,-5,1,-3\},\{10,-8,1,-4\},\{2,4,-1,2\},\{5,-5,1,-3\},
\{8,-10,1,-4\},\{4,2,1,-2\},\{5,-5,1,-3\},\{10,-8,1,-4\},\{2,4,-1,2\},
\{5,-5,1,-3\},\{8,-10,1,-4\},\{4,2,1,-2\},\{5,-5,1,-3\},\{10,-8,1,-4\},
\{2,4,-1,2\},\{5,-5,1,-3\},\{8,-10,1,-4\},\{4,2,1,-2\},\{5,-5,1,-3\},
{10,-8,1,-4},{2,4,-1,2},{5,-5,1,-3},{8,-10,1,-4},{4,2,1,-2},
{5,-5,1,-3},{10,-8,1,-4},{2,4,-1,2},{5,-5,1,-3},{8,-10,1,-4},
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{8,-10,1,-4},{4,2,1,-2},{5,-5,1,-3},{10,-8,1,-4},{2,4,-1,2},
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\{5,-5,1,-3\},\{8,-10,1,-4\},\{4,2,1,-2\},\{5,-5,1,-3\},\{10,-8,1,-4\},
\{2,4,-1,2\},\{5,-5,1,-3\},\{8,-10,1,-4\},\{4,2,1,-2\},\{5,-5,1,-3\},
\{10, -8, 1, -4\}, \{2, 4, -1, 2\}, \{5, -5, 1, -3\}, \{8, -10, 1, -4\}, \{4, 2, 1, -2\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 1, -4\}, \{6, -10, 
\{5,-5,1,-3\},\{10,-8,1,-4\},\{2,4,-1,2\},\{5,-5,1,-3\},\{8,-10,1,-4\},
{4,2,1,-2},{5,-5,1,-3},{10,-8,1,-4},{2,4,-1,2},{5,-5,1,-3},
{8,-10,1,-4},{4,2,1,-2},{5,-5,1,-3},{10,-8,1,-4},{2,4,-1,2},
{5,-5,1,-3},{8,-10,1,-4},{4,2,1,-2},{5,-5,1,-3},{10,-8,1,-4},
{157,-185,-27,-29},{2,14,3,0},{29,41,10,-4},{34,40,11,-4},{1,4,1,0},
\{71,37,16,-5\},\{119,-118,15,22\},\{5,-7,1,1\},\{67,-25,-1,13\},
\{10,-10,1,2\},\{35,-28,1,8\}\}
f={{1,0,0,0},{4917834,1,39433419,16736679},{566451,0,1,0},
```

{-1334619,0,0,1}}

```
No.215
L(n) = \{\{8,24\},\{24,-40\}\}\
g = \{\{809, -600\}, \{-120, 89\}\}
w = \{-28, -21\}
rts=\{\{39,1,17,23\},\{5,-1,-3,-4\},\{3,-3,-1,-1\},\{51,35,7,15\},
\{41, -33, -13, -13\}, \{3, -3, -1, -1\}\}
f = \{\{-1,0,0,0\},\{44,-1,-40,-8\},\{-2,0,1,0\},\{-1,0,0,1\}\}
No.216
L(n) = \{\{-8, 24\}, \{24, 40\}\}\
g = \{\{809,600\},\{120,89\}\}
w = \{-3, -4\}
rts=\{\{21,-1,2,-3\},\{29,-11,8,-12\},\{7,-15,1,-3\},\{33,41,13,-13\},
{3,3,1,-1}
f = \{\{-4, -1, -120, -88\}, \{-1, 0, 0, 0\}, \{3, 0, 1, 0\}, \{-4, 0, 0, 1\}\}
No.217
L(n) = \{\{8,28\}, \{28,-16\}\}\
g = \{\{87881, -24160\}, \{-12080, 3321\}\}\
w = \{2, -26\}
rts=\{\{95,-1,-7,-25\},\{7,1,3,11\},\{9,1,3,11\},\{13,-5,4,14\},\{9,1,3,11\}\}
f = \{\{256, -1, 9664, -2656\}, \{-1, 0, 0, 0\}, \{88, 0, 1, 0\}, \{320, 0, 0, 1\}\}
No.218
L(n) = \{\{-8, 28\}, \{28, 16\}\}\
g={{87881,24160},{12080,3321}}
```

```
w = \{0, 28\}
rts={{345,-1,-7,27},{471,1,8,-27},{169,1,5,-17},{223,-1,6,-23}}
f = \{\{1,2608,8096,2216\},\{0,1,0,0\},\{0,74,1,0\},\{0,-268,0,1\}\}
No.219
L(n) = \{\{-10, 25\}, \{25, 30\}\}\
g={{8820882793801,4775460686640},{1591820228880,861781649401}}
w = \{-6, 5\}
rts=\{\{8,2,6,-11\},\{41,-4,-3,7\},\{8,2,1,-1\},\{44,-16,-3,10\},
\{36, -24, -10, 21\}, \{1, -14, -7, 13\}\}
f = \{\{1,0,0,0\},\{104596578480,1,2962396986640,1603786228500\},
{52732166364,0,1,0},{-97403012920,0,0,1}}
No.220
L(n) = \{\{16, 24\}, \{24, -24\}\}
g = \{\{3409, -1488\}, \{-992, 433\}\}
w = \{-1, 7\}
rts=\{\{71,-1,3,6\},\{47,-13,6,9\},\{107,81,-2,25\},\{3,9,-1,1\},\{7,-1,1,2\}\}
f = \{\{68, -1, -776, 336\}, \{-1, 0, 0, 0\}, \{-11, 0, 1, 0\}, \{-25, 0, 0, 1\}\}
No.221
L(n) = \{\{8,24\},\{24,-48\}\}
g = \{ \{3409, -2976\}, \{-496, 433\} \}
w = \{-20, 5\}
rts=\{\{43,1,-1,-2\},\{49,9,-14,-17\},\{15,3,-5,-6\}\}
f = \{\{24, 1, 216, -192\}, \{1, 0, 0, 0\}, \{-6, 0, 1, 0\}, \{-7, 0, 0, 1\}\}
```

```
No.222
L(n) = \{\{-8, 24\}, \{24, 48\}\}
g={{3409,2976},{496,433}}
w = \{20, 3\}
rts={{27,5,10,1},{5,3,2,0}}
f = \{\{1,0,0,0\}, \{-56,1,-152,-144\}, \{-4,0,1,0\}, \{5,0,0,1\}\}
No.223
L(n) = \{\{-16, 24\}, \{24, 24\}\}
g = \{\{3409, 1488\}, \{992, 433\}\}
w = \{14, 13\}
rts = \{\{121, -1, -3, 8\}, \{103, 3, 8, -17\}, \{29, -1, 2, -5\}, \{227, -19, 7, -28\}, \}
\{11,3,-2,4\},\{3,7,-4,9\}\}
f = \{\{-1,0,0,0\},\{-132,-1,-408,-168\},\{6,0,1,0\},\{-13,0,0,1\}\}
No.224
L(n) = \{\{-8, 28\}, \{28, 24\}\}
g = \{\{11832207126056839081, 4793520994573980240\},
{1597840331524660080,647324805384218521}}
w = \{-25, 10\}
rts = \{ \{7163, -1, 12, 15\}, \{899, -1, -3, 13\}, \{35, -15, 13, 3\}, \{21, 39, -29, -3\}, \} 
{21,23,-11,0},{193,-59,20,17},{53,-17,5,5},{19,-21,2,4},{1,11,1,-2}}
f=\{\{0,1,0,0\},
\{1, -85860486571053724, -489906341217036840, -198473227097859476\},
{0,-6352973186955757,1,0},{0,15681519847192528,0,1}}
```

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L(n) = \{\{10,30\}, \{30,-10\}\}\
g = \{\{6074863512559021, -985814636660340\},
{-985814636660340,159975692596981}}
w = \{-27, 18\}
 rts=\{\{3379, -1, 10, 12\}, \{148, -3, 3, 10\}, \{17, -7, 2, 2\}, \{29, 14, 6, -3\}, \}
 \{1,-4,1,0\},\{1,6,6,-1\},\{4,-1,-1,0\}\}
f = \{\{132359546751445, -1, -164202334562670, 26646370646990\}, \{-1, 0, 0, 0\}, \}
\{-842632226217,0,1,0\},\{-5192533743350,0,0,1\}\}
No.226
L(n) = \{\{-20, 20\}, \{20, 30\}\}\
g={{5089048875898681,2957443909981020},
{1971629273320680,1145790329257321}}
w = \{13, 26\}
 rts = \{\{66, 1, 10, -17\}, \{39, -1, -2, 4\}, \{76, -16, 0, 9\}, \{217, 17, -17, 20\}, \}
 {54,21,-17,27},{6,4,-2,3},{6,31,-8,13},{329,16,-24,-1},
\{54,-4,-2,-3\},\{11,1,1,0\},\{24,-1,11,-19\},\{32,2,-10,17\},\{33,2,-10,17\},
\{14,-1,-4,7\},\{6,4,-2,3\},\{31,136,27,5\},\{13,-3,10,4\},\{14,-19,11,5\},
{1,9,1,0}}
f = \{\{0, -1, 0, 0\}, \{-1, -11790135, 12916120, 7506030\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237363, 1, 0\}, \{0, -237
{0,408443,0,1}}
No.227
L(n) = \{\{12,24\}, \{24,-36\}\}
q = \{\{56641, -36576\}, \{-12192, 7873\}\}
w = \{0, 3\}
 rts=\{\{5,-1,2,3\},\{7,5,-7,-11\},\{11,-1,-11,-17\}\}
f = \{\{666, 1, 32352, -20892\}, \{1, 0, 0, 0\}, \{-658, 0, 1, 0\}, \{-1019, 0, 0, 1\}\}
```

```
L(n) = \{\{-12, 24\}, \{24, 36\}\}\
g={{56641,36576},{12192,7873}}
w = \{-3, -1\}
rts=\{\{7,7,-2,2\},\{1,-37,7,-11\}\}
f = \{\{-1,0,0,0\}, \{-1788,-1,-16860,-10884\}, \{343,0,1,0\}, \{-531,0,0,1\}\}
No.229
L(n) = \{\{-10, 25\}, \{25, 40\}\}\
g={{14953601,10490880},{2622720,1840001}}
w = \{-10, -5\}
rts=\{\{1576, -6, -3, -20\}, \{346, -6, 7, -16\}, \{21, -1, 0, -1\}\}
f={{1075000,1,1574375,1104500},{1,0,0,0},{34500,0,1,0},
\{-49175,0,0,1\}
No.230
L(n) = \{\{16, 28\}, \{28, -16\}\}\
q = \{\{62177, -16512\}, \{-16512, 4385\}\}
w = \{-30, 3\}
rts={{199,1,0,5},{51,1,1,5},{19,-1,1,3}}
f = \{\{-392, -1, -1964, 528\}, \{-1, 0, 0, 0\}, \{-16, 0, 1, 0\}, \{-61, 0, 0, 1\}\}
No.231
L(n) = \{\{-8, 28\}, \{28, 32\}\}\
g={{62177,33024},{8256,4385}}
w = \{-9, -23\}
rts=\{\{3385,-1,6,-21\},\{775,-1,10,-21\},\{663,-1,9,-19\}\}
```

```
No.232
L(n) = \{\{12,30\}, \{30,-12\}\}
q = \{\{142359329305393201, -27415901807854560\},
{-27415901807854560,5279820266120401}}
w = \{28, 20\}
rts = \{\{2227, 1, -2, -25\}, \{1879, -1, 7, 24\}, \{2227, 1, -2, -25\}, \{5, -1, 1, 0\}, \}
\{1,5,-5,1\},\{43,-29,28,-4\},\{83,13,-6,6\},\{7,31,0,6\},\{5,-1,1,5\}\}
f = \{\{164128212256488, 1, -5272568239418988, 1015403864519664\}, \{1, 0, 0, 0\}, \}
{31425960668044,0,1,0},{163181890380082,0,0,1}}
No.233
L(n) = \{\{8,32\}, \{32,-8\}\}
g = \{\{4289, -528\}, \{-528, 65\}\}
w = \{-11, 6\}
rts={{545,1,3,-5},{255,1,1,-5},{187,1,1,-4}}
f = \{\{612, -1, -408, 0\}, \{-1, 0, 0, 0\}, \{-3, 0, 1, 0\}, \{-12, 0, 0, 1\}\}
No.234
L(n) = \{\{-16, 24\}, \{24, 32\}\}
g={{3761,2112},{1056,593}}
w = \{-5, 22\}
rts=\{\{513,1,12,-20\},\{153,-1,-11,20\},\{63,-1,-10,18\}\}
f = \{\{-8, 1, 64, 40\}, \{1, 0, 0, 0\}, \{1, 0, 1, 0\}, \{-2, 0, 0, 1\}\}
```

f={{3896,1,3524,1836},{1,0,0,0},{59,0,1,0},{-109,0,0,1}}

```
L(n) = \{\{10,30\}, \{30,-20\}\}\
g = \{\{150841, -47760\}, \{-23880, 7561\}\}
w = \{-3, 0\}
rts={{61,34,1,16},{7,7,2,7},{14,-19,5,14},{3,-2,1,3}}
f = \{\{1,0,0,0\}, \{-28625,1,50750,-16050\}, \{-485,0,1,0\}, \{-1530,0,0,1\}\}
No.236
L(n) = \{\{-10,30\}, \{30,20\}\}\
g={{150841,47760},{23880,7561}}
w = \{-8, 8\}
rts=\{\{44,1,3,-9\},\{1,-11,-6,19\},\{1,24,-7,22\},\{1,-11,-6,19\}\}
f = \{\{1,0,0,0\},\{100,1,29120,9220\},\{278,0,1,0\},\{-878,0,0,1\}\}
No.237
L(n) = \{\{8, 28\}, \{28, -40\}\}\
g={{222784849,-145548000},{-29109600,19017649}}
w = \{-28, -14\}
rts=\{\{3301,1,5,17\},\{21,17,-1,-5\},\{1,-15,-2,0\}\}
f = \{\{1287184, -1, -9686920, 6328576\}, \{-1, 0, 0, 0\}, \{-190468, 0, 1, 0\}, \}
{-291542,0,0,1}}
No.238
L(n) = \{\{-8, 28\}, \{28, 40\}\}\
g={{222784849,145548000},{29109600,19017649}}
w = \{-18, -13\}
rts=\{\{499,-1,5,-10\},\{401,1,-6,2\},\{93,15,-11,4\},\{29,-11,0,-4\},
```

```
\{1,17,-4,6\},\{1,3,-2,3\}\}
 f = \{\{1,0,0,0\}, \{3734380,1,9685892,6327896\}, \{190448,0,1,0\}, \}
 \{-291511,0,0,1\}
No.239
 L(n) = \{\{30, 15\}, \{15, -30\}\}\
g={{165580141,-102334155},{-102334155,63245986}}
w = \{-12, -6\}
  rts=\{\{443,2,11,20\},\{14,1,3,5\},\{16,1,3,5\},\{26,26,3,9\},\{19,-4,-2,-1\},
 \{2,-8,-2,-3\}\}
 f = \{\{-1,0,0,0\}, \{-1970700,-1,-25237200,15597450\}, \{-465026,0,1,0\},
 {-752428,0,0,1}}
No.240
 L(n) = \{\{10, 25\}, \{25, -50\}\}\
g = \{\{199691526, -170556925\}, \{-34111385, 29134601\}\}
w = \{-1, -3\}
  rts=\{\{56,-4,-10,-11\},\{6,-1,1,1\},\{16,-6,3,2\},\{4,6,0,-1\},\{6,-1,-1,-1\}\}
 f = \{\{-22908645, -1, 133583985, -114094350\}, \{-1, 0, 0, 0\}, \{3401636, 0, 1, 0\}, \{3401636, 0, 1, 0\}, \{3401636, 0, 1, 0\}, \{3401636, 0, 1, 0\}, \{3401636, 0, 1, 0\}, \{3401636, 0, 1, 0\}, \{3401636, 0, 1, 0\}, \{3401636, 0, 1, 0\}, \{3401636, 0, 1, 0\}, \{3401636, 0, 1, 0\}, \{3401636, 0, 1, 0\}, \{3401636, 0, 1, 0\}, \{3401636, 0, 1, 0\}, \{3401636, 0, 1, 0\}, \{3401636, 0, 1, 0\}, \{3401636, 0, 1, 0\}, \{3401636, 0, 1, 0\}, \{3401636, 0, 1, 0\}, \{3401636, 0, 1, 0\}, \{3401636, 0, 1, 0\}, \{3401636, 0, 1, 0\}, \{3401636, 0, 1, 0\}, \{3401636, 0, 1, 0\}, \{3401636, 0, 1, 0\}, \{3401636, 0, 1, 0\}, \{3401636, 0, 1, 0\}, \{3401636, 0, 1, 0\}, \{3401636, 0, 1, 0\}, \{3401636, 0, 1, 0\}, \{3401636, 0, 1, 0\}, \{3401636, 0, 1, 0\}, \{3401636, 0, 1, 0\}, \{3401636, 0, 1, 0\}, \{3401636, 0, 1, 0\}, \{3401636, 0, 1, 0\}, \{3401636, 0, 1, 0\}, \{3401636, 0, 1, 0\}, \{3401636, 0, 1, 0\}, \{3401636, 0, 1, 0\}, \{3401636, 0, 1, 0\}, \{3401636, 0, 1, 0\}, \{3401636, 0, 1, 0\}, \{3401636, 0, 1, 0\}, \{3401636, 0, 1, 0\}, \{3401636, 0, 1, 0\}, \{3401636, 0, 1, 0\}, \{3401636, 0, 1, 0\}, \{3401636, 0, 1, 0\}, \{3401636, 0, 1, 0\}, \{3401636, 0, 1, 0\}, \{3401636, 0, 1, 0\}, \{3401636, 0, 1, 0\}, \{3401636, 0, 1, 0\}, \{3401636, 0, 1, 0\}, \{3401636, 0, 1, 0\}, \{3401636, 0, 1, 0\}, \{3401636, 0, 1, 0\}, \{3401636, 0, 1, 0\}, \{3401636, 0, 1, 0\}, \{3401636, 0, 1, 0\}, \{3401636, 0, 1, 0\}, \{3401636, 0, 1, 0\}, \{3401636, 0, 1, 0\}, \{3401636, 0, 1, 0\}, \{340166, 0, 1, 0\}, \{340166, 0, 1, 0\}, \{340166, 0, 1, 0\}, \{340166, 0, 1, 0\}, \{340166, 0, 1, 0\}, \{340166, 0, 1, 0\}, \{340166, 0, 1, 0\}, \{340166, 0, 1, 0\}, \{340166, 0, 1, 0\}, \{340166, 0, 1, 0\}, \{340166, 0, 1, 0\}, \{340166, 0, 1, 0\}, \{340166, 0, 1, 0\}, \{340166, 0, 1, 0\}, \{340166, 0, 1, 0\}, \{340166, 0, 1, 0\}, \{340166, 0, 1, 0\}, \{340166, 0, 1, 0\}, \{340166, 0, 1, 0\}, \{340166, 0, 1, 0\}, \{340166, 0, 1, 0\}, \{3401666, 0, 1, 0\}, \{3401666, 0, 1, 0\}, \{3401666, 0, 1, 0\}, \{3401666, 0, 1, 0\}, \{3401666, 0, 1, 0\}, \{3401666, 0, 1, 0\}, \{3401666, 0, 1, 0\}, \{3401666, 0, 1, 0\}, \{3401666, 0, 1, 0\}, \{3401666, 0, 1, 0\}, \{3401666, 0, 0, 0\}, \{3401666, 0, 0, 0, 0\}, \{3401666, 0, 0, 0, 0, 0\}, \{3401666, 0, 0, 0, 0, 0, 0, 0\}, \{340
  {3982705,0,0,1}}
No.241
 L(n) = \{\{-10, 25\}, \{25, 50\}\}\
g={{199691526,170556925},{34111385,29134601}}
w = \{5, 4\}
  rts=\{\{1226,4,21,-9\},\{223,-22,-13,-10\},\{7,22,19,3\},\{14,-4,-3,-1\},
 {4,1,1,0}}
 f = \{\{-15385345, 1, -19484440, -16641725\}, \{1,0,0,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{-496159,0,1,0\}, \{
 {580914,0,0,1}}
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No.242
L(n) = \{\{24, 24\}, \{24, -24\}\}\
g = \{\{985, -408\}, \{-408, 169\}\}\
w = \{-27, 17\}
rts = \{\{11, 1, -2, -5\}, \{373, -1, 4, 3\}, \{13, 1, -2, 1\}, \{5, 19, -2, 2\}, \{5, -5, -3, 1\}, \}
\{29,-17,-9,2\},\{23,-1,-1,-1\}\}
f = \{\{-168, 1, 192, -48\}, \{1, 0, 0, 0\}, \{-3, 0, 1, 0\}, \{-5, 0, 0, 1\}\}
No.243
L(n) = \{\{12,24\},\{24,-48\}\}
g = \{\{985, -816\}, \{-204, 169\}\}
w = \{-14, 12\}
rts={{2645,-1,15,6},{1103,-1,10,7},{1397,-1,11,7}}
f = \{\{1176, -1, 264, -48\}, \{-1, 0, 0, 0\}, \{10, 0, 1, 0\}, \{6, 0, 0, 1\}\}
No.244
L(n) = \{\{8,32\}, \{32,-16\}\}\
g = \{\{1121, -272\}, \{-136, 33\}\}
w = \{-5, -16\}
rts={{65,-1,-4,-16},{71,1,4,17},{67,1,5,21}}
f = \{\{-36, 1, 408, -96\}, \{1, 0, 0, 0\}, \{-3, 0, 1, 0\}, \{-12, 0, 0, 1\}\}
No.245
L(n) = \{\{-8,32\}, \{32,16\}\}\
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```
g={{1121,272},{136,33}}
w = \{5, -29\}
rts=\{35,-1,7,-29\},\{9,3,-1,3\},\{3,-3,0,1\},\{1,101,-5,0\}\}
f = \{\{1,0,0,0\}, \{-2852,1,536,304\}, \{-1,0,1,0\}, \{-17,0,0,1\}\}
No.246
L(n) = \{\{-12, 24\}, \{24, 48\}\}
g={{985,816},{204,169}}
W = \{-1, 1\}
rts=\{\{5, -5, -4, 5\}, \{1, 7, 5, -6\}\}
f = \{\{-1,0,0,0\},\{186,-1,-5532,-4584\},\{135,0,1,0\},\{-163,0,0,1\}\}
No.247
L(n) = \{\{-8, 28\}, \{28, 48\}\}\
q={{18935502762001,14618243592000},{2436373932000,1880885238001}}
w = \{-15, -27\}
rts = \{\{1369, -1, 16, -23\}, \{51, 3, -4, 1\}, \{3, 1, -1, 0\}, \{11, 3, -2, 2\}, \}
\{11,35,-6,2\},\{5,-7,-1,2\},\{3,3,-1,1\}\}
f = \{\{-49559043888, -1, -610689594116, -471453510268\}, \{-1, 0, 0, 0\}, \}
{13794864923,0,1,0},{-17868952669,0,0,1}}
No.248
L(n) = \{\{12,30\}, \{30,-24\}\}
g={{8835201001,-3289180320},{-1644590160,612250201}}
w = \{10, 19\}
rts=\{\{49,1,-7,-19\},\{5,-1,-3,-8\},\{5,-19,-3,-7\},\{7,7,-2,-6\},
\{11,181,-5,-21\},\{179,5,-7,-22\},\{5,-1,3,8\},\{11,-5,9,24\},\{5,-5,6,16\},
\{11,1,-1,-3\}
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f = \{\{1, 141399228, -476516190, 177398088\}, \{0, 1, 0, 0\}, \{0, 5146840, 1, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1, 0, 0\}, \{0, 1,
{0,13825137,0,1}}
No.249
L(n) = \{\{-12,30\},\{30,24\}\}
g = \{\{8835201001, 3289180320\}, \{1644590160, 612250201\}\}\
w = \{0, -16\}
 rts=\{\{301,-1,5,-15\},\{13,-1,1,-3\},\{127,-13,5,-20\},\{307,5,-8,8\},
\{5,1,-1,0\}\}
f = \{\{-1791231744, 1, 1759325424, 654964032\}, \{1, 0, 0, 0\}, \{19002432, 0, 1, 0\}, \}
\{-51043208,0,0,1\}
No.250
L(n) = \{\{20, 20\}, \{20, -40\}\}\
q = \{ \{5757961, -4215120\}, \{-2107560, 1542841\} \}
w = \{-1, -4\}
 rts=\{\{9,-1,-3,-4\},\{3,-3,-3,-4\},\{1,111,-13,-18\},\{3,-13,2,2\}\}
f = \{\{1,0,0,0\}, \{-654810,1,-3669180,2686020\}, \{77539,0,1,0\}, \}
{105920,0,0,1}}
No.251
L(n) = \{\{10,30\}, \{30,-30\}\}\
g = \{\{6811741, -3161340\}, \{-1053780, 489061\}\}
w = \{4, 2\}
rts=\{\{139,4,-3,-10\},\{41,-4,3,4\},\{79,-1,4,8\}\}
f={{593360,-1,2096200,-972840},{-1,0,0,0},{28084,0,1,0},
 {60512,0,0,1}}
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No.252
L(n) = \{\{-10,30\}, \{30,30\}\}\
g={{6811741,3161340},{1053780,489061}}
w = \{-6, 4\}
rts=\{\{28,-2,-4,9\},\{19,-6,-11,24\},\{8,-2,-6,13\},\{1,4,13,-28\}\}
f = \{\{-1,0,0,0\},\{7180,-1,-1719580,-798060\},\{23038,0,1,0\},
\{-49640,0,0,1\}\}
No.253
L(n) = \{\{-20, 20\}, \{20, 40\}\}\
g={{5757961,4215120},{2107560,1542841}}
w = \{9, 3\}
rts=\{\{91,-29,-4,-10\},\{1,-29,5,-7\}\}
f = \{\{1,0,0,0\}, \{75690,1,-629880,-461100\}, \{-13311,0,1,0\}, \{18183,0,0,1\}\}
No.254
L(n) = \{\{8,32\}, \{32,-24\}\}
g={{12812766721,-4598488440},{-1532829480,550130881}}
w = \{15, 14\}
rts=\{\{325,-1,6,15\},\{71,1,3,9\},\{11,1,0,1\},\{47,-13,6,13\},\{7,7,0,2\}\}
f = \{\{147081276, 1, -1428008072, 512510592\}, \{1,0,0,0\}, \{14697249, 0, 1, 0\}, \}\}
{40950940,0,0,1}}
No.255
L(n) = \{\{-8, 32\}, \{32, 24\}\}
g={{12812766721,4598488440},{1532829480,550130881}}
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w = \{20, 27\}
rts={{2973,-1,-5,24},{11,-1,0,1},{35,1,-2,5},{5,5,-9,25}}
f = \{\{1,0,0,0\},\{2942308,1,-512470832,-183925240\},\{-5274418,0,1,0\},
{14696109,0,0,1}}
No.256
L(n) = \{\{8, 28\}, \{28, -56\}\}\
g = \{\{442961, -393120\}, \{-56160, 49841\}\}
w = \{18, 5\}
rts={{8799,3,17,-24},{1371,1,0,-7},{1173,1,1,-6}}
f = \{\{-116636, 1, -18548, 16240\}, \{1,0,0,0\}, \{474,0,1,0\}, \{527,0,0,1\}\}
No.257
L(n) = \{\{-8, 28\}, \{28, 56\}\}\
g={{442961,393120},{56160,49841}}
w = \{8, -17\}
rts=\{\{1023,1,-16,16\},\{207,-1,12,-14\},\{75,-1,4,-5\}\}
f = \{\{24388, 1, 55356, 49112\}, \{1,0,0,0\}, \{1400,0,1,0\}, \{-1577,0,0,1\}\}
No.258
L(n) = \{\{32, 16\}, \{16, -32\}\}\
g = \{\{75025, -46368\}, \{-46368, 28657\}\}
w = \{-29, 20\}
rts={{303,-1,5,-1},{59,3,-2,-5},{3,-5,5,8}}
f = \{\{0, -1, 0, 0\}, \{-1, -304, 17888, -11056\}, \{0, 309, 1, 0\}, \{0, 500, 0, 1\}\}
```

```
No.259
L(n) = \{\{16, 32\}, \{32, -16\}\}\
g = \{\{98209, -23184\}, \{-23184, 5473\}\}
w = \{-12, 24\}
rts={{199,-1,5,20},{1441,1,-3,-21},{1193,1,-2,-17}}
f={{10368,-1,-5184,1152},{-1,0,0,0},{-36,0,1,0},{-144,0,0,1}}
No.260
L(n)=\{\{8,32\},\{32,-32\}\}
q = \{\{98209, -46368\}, \{-11592, 5473\}\}
w = \{21, 15\}
rts={{2385,1,-4,-17},{257,-1,8,16},{195,-1,7,14}}
f={{2124,1,-5256,2496},{1,0,0,0},{69,0,1,0},{147,0,0,1}}
No.261
L(n) = \{\{-8,32\}, \{32,32\}\}
g={{98209,46368},{11592,5473}}
w = \{-12, -21\}
rts={{2635,-1,5,-19},{325,1,-9,18},{255,1,-8,16}}
f = \{\{-2384, 1, 5184, 2464\}, \{1,0,0,0\}, \{68,0,1,0\}, \{-145,0,0,1\}\}
No.262
L(n) = \{\{20,30\},\{30,-20\}\}\
g = \{\{1543321, -467280\}, \{-467280, 141481\}\}
w = \{-30, 7\}
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```
rts={{41,1,0,2},{77,3,2,9},{213,-3,8,24}}
f = \{\{-12510, -1, -51230, 15520\}, \{-1, 0, 0, 0\}, \{-430, 0, 1, 0\}, \{-1421, 0, 0, 1\}\}
No.263
L(n) = \{\{-10,30\}, \{30,40\}\}\
g={{1543321,934560},{233640,141481}}
w = \{28, -5\}
rts={{873,3,-18,25},{232,-3,15,-26},{114,-1,7,-12}}
f = \{\{-18020, -1, 69770, 42240\}, \{-1, 0, 0, 0\}, \{-1172, 0, 1, 0\}, \{1935, 0, 0, 1\}\}
No.264
L(n) = \{\{10,35\}, \{35,-10\}\}\
g={{17217982601,-2411463600},{-2411463600,337737401}}
w = \{-25, -22\}
rts=\{454,-1,-4,-25\},\{6,-1,-1,-7\},\{8,7,-2,-15\},\{3,2,0,-1\},
\{4,-16,-1,-3\},\{1,4,0,1\}\}
f = \{\{1,0,0,0\}, \{-101848780,1,819503480,-114775510\}, \{-3153126,0,1,0\}, \}
{-22513492,0,0,1}}
No.265
L(n) = \{\{-12,30\},\{30,36\}\}
g={{19417,10512},{3504,1897}}
w = \{2, -2\}
rts=\{\{7,-1,1,-2\},\{43,5,-8,14\},\{7,-1,-1,2\}\}
f={{1944,1,-21972,-11892},{1,0,0,0},{-326,0,1,0},{602,0,0,1}}
```

```
No.266
L(n) = \{\{16, 24\}, \{24, -48\}\}\
g = \{\{10009, -7920\}, \{-2640, 2089\}\}\
w = \{-2, -20\}
rts={{281,1,13,17},{39,1,7,9},{41,1,7,9},{13,3,2,3},{25,1,3,4}}
f = \{\{128, -1, 736, -576\}, \{-1, 0, 0, 0\}, \{16, 0, 1, 0\}, \{20, 0, 0, 1\}\}
No.267
L(n) = \{\{8,32\}, \{32,-40\}\}\
g = \{\{11329, -6600\}, \{-1320, 769\}\}\
w = \{29, 0\}
rts={{2667,3,16,-12},{145,-1,3,3},{27,-1,2,3}}
f={{108,1,-216,144},{1,0,0,0},{3,0,1,0},{6,0,0,1}}
No.268
L(n) = \{\{-8,32\}, \{32,40\}\}
g={{11329,6600},{1320,769}}
w = \{-5, -5\}
rts={{101,1,-3,4},{249,7,-18,28},{29,1,-2,3}}
f = \{\{-272, 1, 1208, 712\}, \{1,0,0,0\}, \{19,0,1,0\}, \{-33,0,0,1\}\}
No.269
L(n) = \{\{-16, 24\}, \{24, 48\}\}\
g = \{\{10009, 7920\}, \{2640, 2089\}\}\
w = \{-23, 23\}
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rts=\{\{9,1,19,-24\},\{41,-1,-1,2\},\{203,5,-10,9\},\{305,7,-15,14\},
{33,1,-2,2}
f = \{\{-40, 1, 2456, 1944\}, \{1, 0, 0, 0\}, \{53, 0, 1, 0\}, \{-67, 0, 0, 1\}\}
No.270
L(n) = \{\{8,36\},\{36,-8\}\}
g={{322766369353,-35430783696},{-35430783696,3889316089}}
w = \{-6, 13\}
rts=\{\{757,-1,3,12\},\{7,-5,-3,0\},\{43,15,8,-3\},\{5,-17,2,1\},\{3,1,0,1\}\}
f = \{\{-3017391804, 1, 35848991932, -3935223736\}, \{1, 0, 0, 0\}, \}
\{-106708736,0,1,0\},\{-972092279,0,0,1\}\}
No.271
L(n) = \{\{-24, 20\}, \{20, 40\}\}\
g = \{\{251904801961, 177153918480\}, \{106292351088, 74750883481\}\}
w = \{15, 8\}
rts = \{\{167, -3, 0, 5\}, \{121, -11, -8, 15\}, \{53, 19, 18, -24\}, \{3, 7, -5, 7\}, \}
\{11,-23,-13,19\},\{1,-11,-7,10\}\}
f = \{\{-1, 0, 0, 0\}, \{-459473580, -1, 15684446280, 11030203060\}, \}
{-299098375,0,1,0},{425304264,0,0,1}}
No.272
L(n) = \{\{10,30\}, \{30,-50\}\}\
g = \{ \{726481, -538800\}, \{-107760, 79921\} \}
w = \{6, -8\}
rts=\{\{1462, -2, -15, -12\}, \{23, -2, -9, -12\}, \{6, -1, -3, -4\}\}
f = \{\{-1075, -1, 53730, -39850\}, \{-1, 0, 0, 0\}, \{1065, 0, 1, 0\}, \{1436, 0, 0, 1\}\}
```

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No.273
L(n) = \{\{-10,30\}, \{30,50\}\}\
g={{726481,538800},{107760,79921}}
w = \{7, 16\}
 rts={{3917,-2,-13,28},{918,-2,-19,28},{399,-1,-8,12}}
f={{48800,1,-53440,-39600},{1,0,0,0},{-1060,0,1,0},{1428,0,0,1}}
No.274
L(n) = \{\{-8, 32\}, \{32, 48\}\}\
g={{22324046305,15412873392},{2568812232,1773548449}}
w = \{-20, -2\}
 rts = \{ \{71, -1, 6, 1\}, \{155, -5, 14, 3\}, \{17, 1, 2, 0\}, \{31, -7, 0, 3\}, \{17, -17, 4, 2\}, \} 
\{13,1,-1,1\},\{1,3,-1,0\}\}
f = \{\{-294742256, 1,886839344,612287872\}, \{1,0,0,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0,1,0\}, \{16317526,0
\{-23634348,0,0,1\}
No.275
L(n) = \{\{-16, 32\}, \{32, 24\}\}
g={{22324046305,7706436696},{5137624464,1773548449}}
w = \{-5, 7\}
 rts = \{\{1781, -3, -2, 24\}, \{215, 1, -3, 6\}, \{105, -1, 1, 2\}, \{77, -3, -1, 6\}, \}
\{11,-1,0,1\}
f = \{\{-1915446876, -1, -5150900560, -1778131448\}, \{-1, 0, 0, 0\}, \}
{47387363,0,1,0},{-137271961,0,0,1}}
No.276
L(n) = \{\{-8, 36\}, \{36, 16\}\}\
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```
g={{977002954001,212000424000},{106000212000,23001046001}}
w = \{30, 3\}
rts=\{\{203,-39,-19,-12\},\{105,57,-14,13\},\{21,33,-5,4\},\{123,99,-17,29\},
{51,-5,-4,-2},{11,3,-1,1},{3,-3,0,-1}}
f = \{\{0, -1, 0, 0\}, \{-1, -2678008, -33682068, -7308688\}, \{0, 193680, 1, 0\}, \}
\{0, -892573, 0, 1\}\}
No.277
L(n) = \{\{10,35\}, \{35,-20\}\}
g = \{\{87881, -24160\}, \{-12080, 3321\}\}
w = \{21, 2\}
rts=\{\{27,-3,4,14\},\{23,3,-4,-15\},\{23,7,-5,-19\},\{3,-7,-1,-3\},
\{1,-21,-2,-7\}
f = \{\{0, -1, 0, 0\}, \{-1, -735, -9210, 2535\}, \{0, -67, 1, 0\}, \{0, -244, 0, 1\}\}
No.278
L(n) = \{\{-10,35\}, \{35,20\}\}
g={{87881,24160},{12080,3321}}
w = \{-28, -19\}
rts = \{\{1721, -1, 1, -15\}, \{629, -1, 3, -15\}, \{419, -1, 2, -11\}\}
f = \{\{2690, 1, 2615, 680\}, \{1, 0, 0, 0\}, \{20, 0, 1, 0\}, \{-69, 0, 0, 1\}\}
No.279
L(n) = \{\{12,36\}, \{36,-12\}\}
g = \{\{1405, -228\}, \{-228, 37\}\}\
w = \{2, 7\}
rts=\{\{37,1,-1,-7\},\{7,-1,1,6\}\}
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```
f = \{\{-1,0,0,0\}, \{-6,-1,1404,-228\}, \{6,0,1,0\}, \{37,0,0,1\}\}
No.280
L(n) = \{\{-24, 24\}, \{24, 36\}\}\
g={{1177,684},{456,265}}
w = \{-14, -14\}
rts = \{\{19, -1, 4, -7\}, \{13, 1, -1, 0\}, \{37, 19, -16, -5\}, \{7, -11, 7, 3\}, \}
\{11,-41,10,5\}
f = \{\{0, -1, 0, 0\}, \{-1, 72, -48, -72\}, \{0, 0, 1, 0\}, \{0, -2, 0, 1\}\}
No.281
L(n) = \{\{8,32\}, \{32,-56\}\}
g={{4859521,-3867360},{-552480,439681}}
w = \{15, 24\}
rts=\{\{91,1,-19,-24\},\{15,-1,-8,-10\},\{33,-7,-17,-21\},\{5,9,-2,-3\},
\{15,23,-13,-17\},\{9,3,-3,-4\},\{1,-5,4,5\}\}
f = \{\{0,1,0,0\},\{1,8716,340312,-270832\},\{0,-7059,1,0\},\{0,-8870,0,1\}\}
No.282
L(n) = \{\{-8, 32\}, \{32, 56\}\}\
g={{4859521,3867360},{552480,439681}}
w = \{29, 4\}
rts={{391,1,15,1},{465,3,13,-2},{87,-1,-3,-1}}
f = \{\{-416884, -1, 110296, 87632\}, \{-1, 0, 0, 0\}, \{-2291, 0, 1, 0\}, \{2874, 0, 0, 1\}\}
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L(n) = \{\{-12,30\},\{30,48\}\}
q = \{\{251124823660801, 176179663349760\},
{44044915837440,30900244473601}}
w = \{9, 7\}
rts=\{\{95,-1,-3,5\},\{149,-29,-6,18\},\{43,7,-5,5\},\{167,23,-22,26\},
\{7,7,-2,2\},\{1,25,-5,7\}\}
f = \{\{-1, 0, 0, 0\}, \{1954877553060, -1, 21032316311934, 14755476393318\},
{-384069709467,0,1,0},{547449326611,0,0,1}}
No.284
L(n) = \{\{8,36\},\{36,-24\}\}
g = \{ \{570878281, -183723120\}, \{-61241040, 19708921\} \}
w = \{-7, 5\}
rts = \{\{113, -1, 2, 4\}, \{31, 3, -4, -13\}, \{39, 7, -4, -14\}, \{31, 19, -3, -13\}, \}
\{7,-11,2,5\},\{3,-1,1,3\}\}
f={{1,38492,-1582060,509148},{0,1,0,0},{0,13199,1,0},{0,41013,0,1}}
No.285
L(n) = \{\{-8, 36\}, \{36, 24\}\}
g={{570878281,183723120},{61241040,19708921}}
w = \{30, -21\}
rts=\{\{5169,-1,2,-24\},\{5,1,-1,0\},\{31,29,-15,0\},\{31,-27,-14,-3\}\}
f = \{\{-1,0,0,0\}, \{9848412,-1,20388564,6561576\}, \{-170100,0,1,0\}, \}
{528549,0,0,1}}
No.286
L(n) = \{\{20,30\}, \{30,-30\}\}\
g={{811826071,-354355320},{-236236880,103115431}}
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w = \{13, -18\}
 rts=\{\{43,-2,-11,-25\},\{17,2,10,23\},\{7,2,3,7\},\{36,-59,10,15\},
\{1,34,1,-1\},\{3,-3,-1,-2\}\}
f = \{\{1, -647760, -16949880, 7398480\}, \{0, 1, 0, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 0\}, \{0, 191028, 1, 
{0,437644,0,1}}
No.287
L(n) = \{\{10,30\}, \{30,-60\}\}\
g={{811826071,-708710640},{-118118440,103115431}}
w = \{-27,30\}
 rts = \{ \{7879, -1, 28, 22\}, \{1469, 1, -6, -11\}, \{1471, 1, -6, -11\}, \{21, -1, -2, -2\}, \}
 \{223,3,8,11\},\{58,3,1,3\},\{3,-2,1,0\},\{23,3,-2,1\},\{1,-6,-1,-1\}\}
f = \{\{0,1,0,0\},\{1,2387455,-15733180,13734810\},\{0,354631,1,0\},
{0,406229,0,1}}
No.288
L(n) = \{\{-10,30\},\{30,60\}\}\
g={{811826071,708710640},{118118440,103115431}}
w = \{-21, -2\}
 rts=\{\{27,-2,-1,2\},\{38,17,15,-16\},\{13,13,10,-11\},\{1,4,1,-1\},
{4,1,7,-8},{2,2,-7,8},{11,-16,11,-13},{4,1,-1,1}}
f = \{\{1,0,0,0\}, \{-336430,1,10982270,9587340\}, \{247544,0,1,0\}, \}
{-283561,0,0,1}}
No.289
L(n) = \{\{-20,30\}, \{30,30\}\}\
g={{811826071,354355320},{236236880,103115431}}
w = \{-12, -26\}
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rts=\{\{209,1,-9,20\},\{2,-7,-3,7\},\{14,6,-5,11\},\{4,-4,3,-7\},\{4,6,-4,9\},
{3,8,-4,9}
f = \{\{-1, 0, 0, 0\}, \{-833665, -1, -38739710, -16909560\}, \{436603, 0, 1, 0\}, \}
\{-1000255,0,0,1\}
No.290
L(n) = \{\{-10,35\}, \{35,30\}\}
g={{2199211,890955},{296985,120316}}
w = \{26, 27\}
rts=\{\{76,1,9,-22\},\{9,-9,-8,20\},\{13,22,-12,29\},\{2,-2,2,-5\},
{22,13,-12,29},{2,-3,2,-5}}
f={{1,0,0,0},{975,1,-62365,-25265},{-647,0,1,0},{1597,0,0,1}}
No.291
L(n) = \{\{24, 24\}, \{24, -40\}\}\
g = \{ \{74329081, -47049800\}, \{-28229880, 17869321\} \}
w = \{29, 17\}
rts=\{\{65,-1,14,22\},\{21,1,12,19\},\{27,3,10,16\},\{47,-1,-4,-6\},
\{25,-3,-3,-4\}\}
f = \{\{-795024, 1, -5075856, 3212976\}, \{1,0,0,0\}, \{81981,0,1,0\}, \}
{129513,0,0,1}}
No.292
L(n) = \{\{16,32\}, \{32,-32\}\}
g={{83739041,-37639840},{-18819920,8459361}}
w = \{23, -17\}
rts={{23,-1,-5,-11},{15,1,4,9},{25,-1,5,11},{31,-7,3,3},
\{23,7,-2,-6\},\{9,-1,-1,-2\}\}
f = \{\{1,4034344,36694256,-16493696\},\{0,1,0,0\},\{0,-420845,1,0\},
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No.293
L(n) = \{\{8,32\}, \{32,-64\}\}
q = \{\{83739041, -75279680\}, \{-9409960, 8459361\}\}
w = \{27, -13\}
 rts = \{\{613, -3, -26, -27\}, \{129, 1, -16, -18\}, \{77, 5, -8, -10\}, \{129, -3, 7, 6\}, \}
 \{17,-1,2,2\}
 f = \{\{-1512516, 1, -2348184, 2110944\}, \{1,0,0,0\}, \{53863,0,1,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\}, \{1,0,0,0\},
 {59915,0,0,1}}
No.294
L(n) = \{\{-8,32\}, \{32,64\}\}
g={{83739041,75279680},{9409960,8459361}}
w = \{-28, 19\}
 rts={{805,1,19,-20},{623,13,-27,9},{93,11,-16,0}}
 \{-237679,0,0,1\}
No.295
 L(n) = \{\{-16, 32\}, \{32, 32\}\}\
g={{83739041,37639840},{18819920,8459361}}
w = \{26, -14\}
 rts=\{\{65,-1,8,-18\},\{23,1,-1,1\},\{5,-13,8,2\},\{15,23,-9,-1\},
 \{15,-1,0,1\},\{13,-3,1,1\},\{7,1,1,0\}\}
 f = \{\{2669536, -1, 4656608, 2093120\}, \{-1, 0, 0, 0\}, \{-53406, 0, 1, 0\}, \}
 {118816,0,0,1}}
```

 $\{0, -936273, 0, 1\}\}$

```
No.296
L(n) = \{\{-24, 24\}, \{24, 40\}\}\
g={{74329081,47049800},{28229880,17869321}}
w = \{-21, 22\}
rts=\{\{181,-1,-15,24\},\{55,-5,-11,18\},\{23,-5,-4,7\},\{99,-39,-10,23\},
{61,-47,-4,15},{9,-77,8,5},{37,-23,1,6},{19,21,-5,1},{79,35,-12,7},
\{15,5,-2,1\},\{9,7,-2,2\},\{13,-31,1,4\},\{43,93,15,-5\},\{31,-15,6,4\},
\{1,-21,-1,2\},\{13,161,12,-13\},\{1,17,1,-1\}\}
f = \{\{0,1,0,0\},\{1,12,24,-24\},\{0,1,1,0\},\{0,0,0,1\}\}
No.297
L(n) = \{\{-8,36\},\{36,32\}\}
q = \{\{15100164490562065, 6408946218109056\},
{1602236554527264,680035499816689}}
w = \{-26, 6\}
rts=\{\{459,3,12,-25\},\{733,-1,-1,8\},\{109,1,3,-6\},\{43,-5,-6,15\},
{3,3,-3,7}, {9,-5,5,-12}, {41,-3,3,-8}, {3,3,-3,7}
f = \{\{1,0,0,0\}, \{-7395865826976,1,686521123233304,291379405777208\},
{7396274056370,0,1,0},{-17426414743954,0,0,1}}
No.298
L(n) = \{\{12,36\}, \{36,-24\}\}
q = \{\{150841, -47760\}, \{-23880, 7561\}\}
w = \{2, -4\}
rts=\{\{505, -5, -9, -17\}, \{7, -1, -1, -3\}\}
f = \{\{-1,0,0,0\},\{336,-1,39720,-12576\},\{316,0,1,0\},\{998,0,0,1\}\}
```

```
L(n) = \{\{-12, 36\}, \{36, 24\}\}\
g={{150841,47760},{23880,7561}}
w = \{12, 9\}
rts={{1373,1,7,-6},{515,1,4,-7},{293,1,3,-4}}
f = \{\{-13500, 1, -7740, -2520\}, \{1,0,0,0\}, \{-60,0,1,0\}, \{195,0,0,1\}\}
No.300
L(n) = \{\{36, 18\}, \{18, -36\}\}\
q = \{ \{75025, -46368\}, \{-46368, 28657\} \}
W = \{10, -1\}
rts={{71,1,-2,-4},{17,-1,2,3},{71,1,6,10}}
f={{1602,-1,8982,-5544},{-1,0,0,0},{138,0,1,0},{223,0,0,1}}
No.301
L(n) = \{\{12,30\}, \{30,-60\}\}\
q = \{\{90481, -77280\}, \{-15456, 13201\}\}
w = \{3, 6\}
rts=\{29,1,-5,-6\},\{43,5,-22,-26\},\{25,-1,-12,-14\}\}
f = \{\{2214, 1, 50472, -43110\}, \{1,0,0,0\}, \{-1071,0,1,0\}, \{-1254,0,0,1\}\}
No.302
L(n) = \{\{-12,30\},\{30,60\}\}\
g={{90481,77280},{15456,13201}}
w = \{-4, -5\}
rts=\{\{215,-1,2,-4\},\{55,-1,4,-5\},\{23,1,2,-2\}\}
f = \{\{4350, -1, -15090, -12900\}, \{-1, 0, 0, 0\}, \{320, 0, 1, 0\}, \{-375, 0, 0, 1\}\}
```

```
No.303
L(n) = \{\{20,35\}, \{35,-20\}\}
g = \{\{1220492779884661084317281, -324119478043729369580160\},\
\{-324119478043729369580160,86074606731608290786721\}
decomposition for g is unclear
No.304
L(n) = \{\{-10, 35\}, \{35, 40\}\}
g = \{\{1220492779884661084317281, 648238956087458739160320\},
{162059739021864684790080,86074606731608290786721}}
decomposition for g is unclear
No.305
L(n) = \{\{10,40\},\{40,-10\}\}\
g={{81307919681,-10009462320},{-10009462320,1232221121}}
w = \{-30, -10\}
rts=\{4698,2,-5,28\},\{279,4,9,-4\},\{7,-3,-2,0\},\{8,-8,-1,-2\},
{4,1,0,-1},{32,72,2,-15},{4,59,-1,-12},{1,6,0,-1}}
f = \{\{-1,0,0,0\}, \{-697376045, -1, -2501758120, 307980510\}, \}
\{-7469624,0,1,0\},\{-60676547,0,0,1\}\}
No.306
L(n) = \{\{-20,30\}, \{30,40\}\}\
g={{71298457361,40037849280},{20018924640,11241683441}}
w = \{-25, -21\}
rts=\{\{131,1,-7,12\},\{41,-1,-1,-1\},\{201,11,23,4\},\{9,1,1,0\},
```

```
\{171,1,5,-8\}
f = \{\{1137468820, -1, -2227437670, -1250823910\}, \{-1, 0, 0, 0\}, \}
{30336935,0,1,0},{-54023299,0,0,1}}
No.307
L(n) = \{\{10,35\}, \{35,-50\}\}
g = \{\{357601, -233625\}, \{-46725, 30526\}\}
w = \{28, 4\}
rts=\{\{82,-3,14,21\},\{21,-6,10,15\},\{3,-2,2,3\},\{18,-7,5,7\},\{6,-1,2,3\},
\{2,-8,1,1\}\}
f={{1,0,0,0},{-4220,1,-15370,10030},{242,0,1,0},{370,0,0,1}}
No.308
L(n) = \{\{-10, 35\}, \{35, 50\}\}\
g={{357601,233625},{46725,30526}}
w = \{22, -7\}
rts=\{\{2846, -1, -1, -10\}, \{1021, -1, 4, -10\}, \{716, -1, 2, -7\}\}
f = \{\{-40665, 1, -15840, -10455\}, \{1,0,0,0\}, \{-247,0,1,0\}, \{382,0,0,1\}\}
No.309
L(n) = \{\{24, 24\}, \{24, -48\}\}\
g={{5757961,-4215120},{-2107560,1542841}}
w = \{9, -9\}
rts=\{\{13,-1,-3,-4\},\{19,-29,-16,-21\},\{25,23,-20,-28\}\}
f={{-10068,-1,466032,-341160},{-1,0,0,0},{8207,0,1,0},{11211,0,0,1}}
```

```
No.310
L(n) = \{\{12,36\}, \{36,-36\}\}
g = \{\{6811741, -3161340\}, \{-1053780, 489061\}\}\
w = \{-16, -11\}
rts={{1585,1,3,13},{233,1,3,8},{601,-1,10,20}}
f = \{\{-376050, -1, -523140, 242820\}, \{-1, 0, 0, 0\}, \{-5840, 0, 1, 0\}, \}
\{-12585,0,0,1\}\}
No.311
L(n) = \{\{-12,36\}, \{36,36\}\}
g={{6811741,3161340},{1053780,489061}}
w = \{13, -8\}
rts=\{\{1801,-1,0,-10\},\{449,-1,0,-5\},\{2257,1,13,-23\}\}
f = \{\{-1216794, 1, -522996, -242820\}, \{1,0,0,0\}, \{-5837,0,1,0\}, \}
{12582,0,0,1}}
No.312
L(n) = \{\{-24, 24\}, \{24, 48\}\}
g={{5757961,4215120},{2107560,1542841}}
w = \{-5, -8\}
rts={{133,-1,3,-5},{173,-5,12,-18},{265,1,20,-27}}
f = \{\{168612, -1, -716232, -524328\}, \{-1, 0, 0, 0\}, \{12613, 0, 1, 0\}, \}
\{-17230,0,0,1\}
No.313
L(n) = \{\{30,30\}, \{30,-30\}\}\
g={{1311738121,-543339720},{-543339720,225058681}}
```

```
w = \{18, 5\}
  rts=\{\{953,2,-7,-22\},\{16,1,2,5\},\{8,17,0,3\},\{29,29,2,10\},\{14,-1,-1,0\},
 {1,14,2,5}}
 f = \{\{-1,0,0,0\},\{5995185,-1,90383310,-37437990\},\{882422,0,1,0\},
 {2130355,0,0,1}}
No.314
 L(n) = \{\{10,40\},\{40,-20\}\}\
g={{1492851361,-362226480},{-181113240,43945441}}
w = \{6, -8\}
  rts = \{\{91, -1, -2, -7\}, \{46, -1, 1, 2\}, \{9, 1, 0, 1\}, \{1, -4, -1, -4\}, \{9, -4, -1, -3\}, \}
 \{1,-4,-1,-4\}\}
 f = \{\{1,0,0,0\}, \{4273780,1,-186385060,45224600\}, \{1065954,0,1,0\}, \}
 {4393138,0,0,1}}
No.315
 L(n) = \{\{-10, 40\}, \{40, 20\}\}\
g={{1492851361,362226480},{181113240,43945441}}
w = \{-14, 3\}
  rts = \{\{1438, -2, 5, 10\}, \{158, 2, 3, -9\}, \{6, 1, 1, -4\}, \{9, 9, -4, 16\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6, 1, -4\}, \{1, 6
 {4,9,1,-3},{4,1,1,-4}
 f = \{\{2744980, -1, -119407340, -28973080\}, \{-1, 0, 0, 0\}, \{682902, 0, 1, 0\}, \{682902, 0, 1, 0\}, \{682902, 0, 1, 0\}, \{682902, 0, 1, 0\}, \{682902, 0, 1, 0\}, \{682902, 0, 1, 0\}, \{682902, 0, 1, 0\}, \{682902, 0, 1, 0\}, \{682902, 0, 1, 0\}, \{682902, 0, 1, 0\}, \{682902, 0, 1, 0\}, \{682902, 0, 1, 0\}, \{682902, 0, 1, 0\}, \{682902, 0, 1, 0\}, \{682902, 0, 1, 0\}, \{682902, 0, 1, 0\}, \{682902, 0, 1, 0\}, \{682902, 0, 1, 0\}, \{682902, 0, 1, 0\}, \{682902, 0, 1, 0\}, \{682902, 0, 1, 0\}, \{682902, 0, 1, 0\}, \{682902, 0, 1, 0\}, \{682902, 0, 1, 0\}, \{682902, 0, 1, 0\}, \{682902, 0, 1, 0\}, \{682902, 0, 1, 0\}, \{682902, 0, 1, 0\}, \{682902, 0, 1, 0\}, \{682902, 0, 1, 0\}, \{682902, 0, 1, 0\}, \{682902, 0, 1, 0\}, \{682902, 0, 1, 0\}, \{682902, 0, 1, 0\}, \{682902, 0, 1, 0\}, \{682902, 0, 1, 0\}, \{682902, 0, 1, 0\}, \{682902, 0, 1, 0\}, \{682902, 0, 1, 0\}, \{682902, 0, 1, 0\}, \{682902, 0, 1, 0\}, \{682902, 0, 1, 0\}, \{682902, 0, 1, 0\}, \{682902, 0, 1, 0\}, \{682902, 0, 1, 0\}, \{682902, 0, 1, 0\}, \{682902, 0, 1, 0\}, \{682902, 0, 1, 0\}, \{682902, 0, 1, 0\}, \{682902, 0, 1, 0\}, \{682902, 0, 1, 0\}, \{682902, 0, 1, 0\}, \{682902, 0, 1, 0\}, \{682902, 0, 1, 0\}, \{682902, 0, 1, 0\}, \{682902, 0, 1, 0\}, \{682902, 0, 1, 0\}, \{682902, 0, 1, 0\}, \{682902, 0, 1, 0\}, \{682902, 0, 1, 0\}, \{682902, 0, 0\}, \{682902, 0, 0, 0\}, \{682902, 0, 0, 0\}, \{682902, 0, 0, 0\}, \{682902, 0, 0, 0\}, \{682902, 0, 0, 0\}, \{682902, 0, 0, 0\}, \{682902, 0, 0, 0, 0\}, \{682902, 0, 0, 0, 0\}, \{682902, 0, 0, 0, 0\}, \{682902, 0, 0, 0, 0\}, \{682902, 0, 0, 0, 0, 0\}, \{682902, 0, 0, 0, 0, 0, 0\}, \{682902, 0, 0, 0, 0, 0, 0, 0\}, \{682902, 0, 0, 0, 0, 0, 0, 0, 0\}, \{682902, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0\}, \{682902, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0\}
 \{-2814458,0,0,1\}
No.316
 L(n) = \{\{-10,35\}, \{35,60\}\}
g = \{\{18935502762001, 14618243592000\}, \{2436373932000, 1880885238001\}\}
w = \{16, 26\}
  rts=\{\{1846,-1,-15,22\},\{94,-11,3,-8\},\{3,7,2,0\},\{201,-129,-20,-21\},
```

```
{221,-141,-26,-22},{106,6,7,-6},{2,2,1,0},{1,11,8,1}}
f = \{\{-1, 0, 0, 0\}, \{-4627116816240, -1, 610686638000, 471451227820\}, \}
{-11035838524,0,1,0},{14295092936,0,0,1}}
No.317
L(n) = \{\{24, 36\}, \{36, -24\}\}
g = \{\{1543321, -467280\}, \{-467280, 141481\}\}
w = \{19, 24\}
 rts=\{\{973,-1,9,27\},\{11,-1,-1,-3\},\{1,-11,-1,0\}\}
f = \{\{-14052, 1, -154464, 46764\}, \{1,0,0,0\}, \{1081,0,1,0\}, \{3570,0,0,1\}\}
No.318
L(n) = \{\{-12, 36\}, \{36, 48\}\}
g={{1543321,934560},{233640,141481}}
w = \{29, -1\}
 rts = \{\{1631, -1, -4, -6\}, \{407, -1, 2, -6\}, \{55, -1, -1, -1\}\}
f = \{\{-74862, 1, -46752, -28380\}, \{1,0,0,0\}, \{-653,0,1,0\}, \{1081,0,0,1\}\}
No.319
L(n) = \{\{10,40\}, \{40,-30\}\}\
g={{12812766721,-4598488440},{-1532829480,550130881}}
w = \{-7, 8\}
 rts=\{\{154,1,-2,-7\},\{163,3,-7,-21\},\{151,-1,3,7\},\{37,2,-6,-17\},
{41,1,-2,-6},{12,-2,-4,-11},{3,3,-1,-3}}
f = \{ \{38712370, 1, 1537647850, -551860190\}, \{1, 0, 0, 0\}, \{-12660541, 0, 1, 0\}, \{-12660541, 0, 1, 0\}, \{-12660541, 0, 1, 0\}, \{-12660541, 0, 1, 0\}, \{-12660541, 0, 1, 0\}, \{-12660541, 0, 1, 0\}, \{-12660541, 0, 1, 0\}, \{-12660541, 0, 1, 0\}, \{-12660541, 0, 1, 0\}, \{-12660541, 0, 1, 0\}, \{-12660541, 0, 1, 0\}, \{-12660541, 0, 1, 0\}, \{-12660541, 0, 1, 0\}, \{-12660541, 0, 1, 0\}, \{-12660541, 0, 1, 0\}, \{-12660541, 0, 1, 0\}, \{-12660541, 0, 1, 0\}, \{-12660541, 0, 1, 0\}, \{-12660541, 0, 1, 0\}, \{-12660541, 0, 1, 0\}, \{-12660541, 0, 1, 0\}, \{-12660541, 0, 1, 0\}, \{-12660541, 0, 1, 0\}, \{-12660541, 0, 1, 0\}, \{-12660541, 0, 1, 0\}, \{-12660541, 0, 1, 0\}, \{-12660541, 0, 1, 0\}, \{-12660541, 0, 1, 0\}, \{-12660541, 0, 1, 0\}, \{-12660541, 0, 1, 0\}, \{-12660541, 0, 1, 0\}, \{-12660541, 0, 1, 0\}, \{-12660541, 0, 1, 0\}, \{-12660541, 0, 1, 0\}, \{-12660541, 0, 1, 0\}, \{-12660541, 0, 1, 0\}, \{-12660541, 0, 1, 0\}, \{-12660541, 0, 1, 0\}, \{-12660541, 0, 1, 0\}, \{-12660541, 0, 1, 0\}, \{-12660541, 0, 1, 0\}, \{-12660541, 0, 1, 0\}, \{-12660541, 0, 1, 0\}, \{-12660541, 0, 1, 0\}, \{-12660541, 0, 1, 0\}, \{-12660541, 0, 1, 0\}, \{-12660541, 0, 1, 0\}, \{-12660541, 0, 1, 0\}, \{-12660541, 0, 1, 0\}, \{-12660541, 0, 1, 0\}, \{-12660541, 0, 1, 0\}, \{-12660541, 0, 1, 0\}, \{-12660541, 0, 1, 0\}, \{-12660541, 0, 1, 0\}, \{-12660541, 0, 1, 0\}, \{-12660541, 0, 1, 0\}, \{-12660541, 0, 1, 0\}, \{-12660541, 0, 1, 0\}, \{-12660541, 0, 1, 0\}, \{-12660541, 0, 1, 0\}, \{-12660541, 0, 1, 0\}, \{-12660541, 0, 0, 0\}, \{-12660541, 0, 0, 0\}, \{-12660541, 0, 0, 0\}, \{-12660541, 0, 0, 0\}, \{-12660541, 0, 0, 0\}, \{-12660541, 0, 0, 0\}, \{-12660541, 0, 0, 0\}, \{-12660541, 0, 0, 0\}, \{-12660541, 0, 0, 0\}, \{-12660541, 0, 0, 0\}, \{-12660541, 0, 0, 0\}, \{-12660541, 0, 0, 0\}, \{-12660541, 0, 0, 0\}, \{-12660541, 0, 0, 0\}, \{-12660541, 0, 0, 0\}, \{-12660541, 0, 0, 0\}, \{-12660541, 0, 0, 0\}, \{-12660541, 0, 0, 0\}, \{-12660541, 0, 0, 0\}, \{-12660541, 0, 0, 0\}, \{-12660541, 0, 0, 0\}, \{-12660541, 0, 0, 0\}, \{-12660541, 0, 0, 0\}, \{-12660541, 0, 0, 0\}, \{-12660541, 0, 0, 0\}, \{-12660541, 0, 0, 0, 0\}, \{-12660541, 0, 0, 0, 0\}, \{-12660541, 0, 0, 0, 0\}, \{-12660541, 0, 0, 
\{-35276061,0,0,1\}
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No.320
L(n) = \{\{-10, 40\}, \{40, 30\}\}\
g={{12812766721,4598488440},{1532829480,550130881}}
w = \{-29, 23\}
 rts=\{\{31,1,9,-25\},\{13,-7,-3,9\},\{24,-64,-4,17\},\{19,321,-14,16\},
\{1,149,-3,7\},\{49,-249,-2,-26\},\{7,12,-2,1\},\{4,1,-1,0\}\}
f = \{\{-1, -109518965, 284280070, 102027800\}, \{0, -1, 0, 0\}, \{0, -2340679, 1, 0\}, \{0, -1, 0, 0\}, \{0, -2340679, 1, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -2340679, 1, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -2340679, 1, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -2340679, 1, 0\}, \{0, -1, 0, 0\}, \{0, -2340679, 1, 0\}, \{0, -1, 0, 0\}, \{0, -2340679, 1, 0\}, \{0, -1, 0, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -2340679, 1, 0\}, \{0, -23
{0,6521832,0,1}}
No.321
L(n) = \{\{12,42\}, \{42,-12\}\}
g = \{\{302274081542463685201, -42334979756614927200\},
{-42334979756614927200,5929223246159194801}}
w = \{16, 13\}
 rts=\{\{65,1,-2,-15\},\{191,17,-7,10\},\{65,-1,1,2\},\{263,-19,-13,-8\},
 {1,23,14,-2},{11,-5,-3,0},{13,13,12,-2},{17,35,15,-3},{13,17,11,-2},
\{1,7,7,-1\},\{5,-1,-1,0\}\}
48},{-1,0,0,0},{69208574882094692,0,1,0},{494153027298405851,0,0,1}}
No.322
L(n) = \{\{10,35\}, \{35,-70\}\}
q = \{ \{442961, -393120 \}, \{-56160, 49841 \} \}
w = \{11, -18\}
 rts=\{\{204,1,13,15\},\{203,78,5,-19\},\{4,21,5,-1\},\{7,-3,-2,-2\},
\{16,6,3,4\},\{3,12,7,8\},\{7,-3,-2,-2\}\}
f = \{\{9580, 1, -18510, 16450\}, \{1,0,0,0\}, \{374,0,1,0\}, \{422,0,0,1\}\}
```

```
L(n) = \{\{-10,35\}, \{35,70\}\}
g={{442961,393120},{56160,49841}}
w = \{-14, 24\}
rts={{1614,1,22,-23},{206,-1,-22,25},{141,-1,-14,16}}
f = \{\{10780, 1, -54670, -48510\}, \{1,0,0,0\}, \{-1106,0,1,0\}, \{1246,0,0,1\}\}
No.324
L(n) = \{\{40, 20\}, \{20, -40\}\}\
g = \{\{2504730781961, -1548008755920\}, \{-1548008755920, 956722026041\}\}
w = \{5, 25\}
rts={{581,-1,13,20},{19,1,3,5},{7,3,1,2},{69,49,13,26},{31,51,5,13},
{3,-7,1,1},{21,-1,5,8}
f = \{\{-18270278380, -1, -312096493540, 192886240780\}, \{-1, 0, 0, 0\}, \}
{-4313067463,0,1,0},{-6978689751,0,0,1}}
No.325
L(n) = \{\{20,40\},\{40,-20\}\}\
g = \{\{3278735159921, -774004377960\}, \{-774004377960, 182717648081\}\}
w = \{17, -10\}
rts=\{\{359,1,0,6\},\{411,-51,-24,-20\},\{233,17,3,-15\},\{189,19,5,-12\},
\{13,3,1,-1\}
f = \{\{-81054981610, 1, -192854007820, 45526655560\}, \{1,0,0,0\}, \}
{1018006967,0,1,0},{4312346712,0,0,1}}
No.326
L(n) = \{\{10,40\},\{40,-40\}\}\
q = \{\{3278735159921, -1548008755920\}, \{-387002188980, 182717648081\}\}
```

```
w = \{2, -28\}
rts=\{\{3204,-1,-15,-26\},\{1116,-9,21,28\},\{69,4,-3,2\},\{1,-4,-1,-2\}\}
f = \{\{1,0,0,0\}, \{8624350400,1,-192908298200,91078943600\},
{2036587092,0,1,0},{4313560682,0,0,1}}
No.327
L(n) = \{\{-10, 40\}, \{40, 40\}\}\
g={{3278735159921,1548008755920},{387002188980,182717648081}}
w = \{12, -19\}
rts=\{\{26,1,-9,19\},\{21,-1,8,-17\},\{13,2,9,-19\},\{9,-6,7,-15\},
\{89, -4, 5, -12\}, \{2, -27, 7, -15\}, \{19, 16, 13, -27\}, \{8, -12, -5, 11\}, \{3, 7, -2, 4\}\}
f={{3189814595,-1,196562693810,92804315160},{-1,0,0,0},
{-2075167573,0,1,0},{4395275452,0,0,1}}
No.328
L(n) = \{\{12,36\}, \{36,-60\}\}
g = \{ \{726481, -538800\}, \{-107760, 79921\} \}
w = \{15, -14\}
rts={{2183,-1,-12,-10},{185,1,7,10},{119,1,4,6}}
f = \{\{12150, -1, 26676, -19764\}, \{-1, 0, 0, 0\}, \{441, 0, 1, 0\}, \{594, 0, 0, 1\}\}
No.329
L(n) = \{\{-12,36\},\{36,60\}\}
g={{726481,538800},{107760,79921}}
w = \{-19, -3\}
rts=\{\{7,1,-1,0\},\{35,29,-9,2\},\{11,1,-1,1\}\}
f = \{\{-8220, 1, 35064, 26016\}, \{1, 0, 0, 0\}, \{579, 0, 1, 0\}, \{-781, 0, 0, 1\}\}
```

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No.330
L(n) = \{\{12,42\}, \{42,-24\}\}
g = \{ \{730977003801241, -200958164040480 \}, \}
{-100479082020240,27623429659561}}
w = \{9, -22\}
 rts=\{455,-1,-6,-20\},\{41,7,-1,-7\},\{7,7,0,-2\},\{29,-17,4,3\},
 {25,-23,7,1},{41,31,10,-4},{11,-5,3,0},{1,13,0,-1}}
f = \{\{1,0,0,0\}, \{-14403955379634, 1, -48788405273448, 13412772630630\}, \{-14403955379634, 1, -48788405273448, 13412772630630\}, \{-14403955379634, 1, -48788405273448, 13412772630630\}, \{-14403955379634, 1, -48788405273448, 13412772630630\}, \{-14403955379634, 1, -48788405273448, 13412772630630\}, \{-14403955379634, 1, -48788405273448, 13412772630630\}, \{-14403955379634, 1, -48788405273448, 13412772630630\}, \{-14403955379634, 1, -48788405273448, 13412772630630\}, \{-14403955379634, 1, -48788405273448, 13412772630630\}, \{-14403955379634, 1, -48788405273448, 13412772630630\}, \{-14403955379634, 1, -48788405273448, 13412772630630\}, \{-14403955379634, 1, -48788405273448, 13412772630630\}, \{-14403955379634, 1, -48788405273448, 13412772630630\}, \{-14403955379634, 1, -48788405273448, 13412772630630\}, \{-14403955379634, 1, -48788405273448, 13412772630630\}, \{-14403955379634, 1, -48788405273448, 13412772630630\}, \{-14403955379634, 1, -48788405273448, 13412772630630\}, \{-14403955379634, 1, -48788405273448, 13412772630630\}, \{-14403955379634, 1, -48788405273448, 13412772630630\}, \{-14403955379634, 1, -48788405273448, 13412772630630\}, \{-14403955379634, 1, -48788405273448, 13412772630630\}, \{-14403955379634, 1, -48788405273448, 13412772630630\}, \{-14403955379634, 1, -48788405273448, 13412772630630\}, \{-1440395634, 1, -487886405273448, 13412772630630\}, \{-14403956364, 1, -48788646, 144166, 144166, 144166, 144166, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416, 14416,
 {296094189121,0,1,0},{1077030357238,0,0,1}}
No.331
L(n) = \{\{-12,42\}, \{42,24\}\}
g = \{ \{730977003801241, 200958164040480 \}, \}
{100479082020240,27623429659561}}
w = \{30, -9\}
 rts=\{\{1475,-1,1,-13\},\{5,1,1,0\},\{85,-25,-19,-5\},\{29,-11,-5,-2\},
 {35,-7,-3,-2},{55,7,4,-2},{5,11,3,0},{1,143,2,-5}}
f = \{\{1,0,0,0\}, \{-15651945028116,1,-25204408224246,-6929125781184\},
{-152964188388,0,1,0},{556400903895,0,0,1}}
No.332
L(n) = \{\{20,30\}, \{30,-60\}\}\
g={{121088881,-95816160},{-31938720,25272721}}
w = \{22, -23\}
 rts = \{\{601, -1, -12, -14\}, \{51, 1, 11, 14\}, \{13, 13, -10, -13\}, \{17, -37, -15, -18\}, \}
\{1,-11,-4,-5\}
f = \{\{0,1,0,0\},\{1,1561970,-31814210,25174200\},\{0,549346,1,0\},
{0,694243,0,1}}
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No.333
L(n) = \{\{10,40\},\{40,-50\}\}\
g={{137058241,-79846800},{-15969360,9303361}}
w = \{30, 4\}
 rts=\{\{26,1,-4,-7\},\{38,-2,2,1\},\{504,41,-24,17\},\{76,11,-3,4\},
 {31,11,-4,2},{6,14,-6,1},{2,-2,1,0}
f = \{\{-1915905, 1, -5274090, 3072540\}, \{1,0,0,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\}, \{67049,0,1,0\},
{115090,0,0,1}}
No.334
L(n) = \{\{-10, 40\}, \{40, 50\}\}\
g={{137058241,79846800},{15969360,9303361}}
w = \{-5, -26\}
 rts=\{\{2161,-1,12,-24\},\{4,1,1,0\},\{13,23,20,2\},\{11,-16,-15,-2\},
 {23,13,13,1},{22,18,14,1},{2,3,1,0}}
f={{7798460,1,8057690,4694170},{1,0,0,0},{102437,0,1,0},
{-175833,0,0,1}}
No.335
L(n) = \{\{-20,30\}, \{30,60\}\}
g={{121088881,95816160},{31938720,25272721}}
w = \{-2, -2\}
 rts={{11,1,-1,1},{23,3,-5,6},{17,-3,1,-2},{1,-31,15,-19}}
f = \{\{-1,0,0,0\}, \{-1383520,-1,-38835680,-30730200\}, \{670588,0,1,0\}, \}
{-847464,0,0,1}}
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```
L(n) = \{\{10,45\}, \{45,-10\}\}
g = \{\{15309056460218076946, -1680509246112374085\},\
\{-1680509246112374085, 184473245206710181\}\}
w = \{3, -15\}
rts={{123,2,3,29},{162,8,6,-5},{26,26,21,-3},{12,8,6,-1},
\{13,8,5,-1\},\{6,-1,1,0\},\{6,-29,3,1\},\{82,242,-21,21\},\{67,12,-19,3\},
{4,-1,-1,0},{167,157,-28,22},{53,32,-5,7},{1,6,0,1}}
f = \{\{0,1,0,0\},\{1,-4330346573745,32132272018470,-3527231110935\},
\{0, -76516385973, 1, 0\}, \{0, -697046847972, 0, 1\}\}
No.337
L(n) = \{\{-30, 25\}, \{25, 50\}\}
q = \{\{11948037967993328776,8402546230561870425\},
{5041527738337122255,3545491737431458351}}
w = \{-9, -29\}
rts = \{\{59, -1, 14, -20\}, \{34, 24, 21, -29\}, \{8, -2, 2, -3\}, \{12, 3, -3, 4\}, \}
\{64, 26, -19, 25\}, \{8, 3, -5, 7\}, \{34, 1, -3, 4\}, \{262, 7, -12, 13\}, \{6, 6, -3, 4\},
{4,-4,-2,3}, {11,-26,-4,7}, {8,-17,-6,9}, {58,22,20,-27}, {16,-14,5,-8},
\{12,-3,1,-2\},\{8,17,-8,11\},\{1,-14,7,-10\}\}
f = \{\{0,1,0,0\},\{1,1092691944525,-35810633231200,-25184093160475\},
{0,-546319685905,1,0},{0,776841706162,0,1}}
No.338
L(n) = \{\{24,36\}, \{36,-36\}\}
q = \{ \{50320119025, -21964312944\}, \{-14642875296, 6391493137\} \}
w = \{-18, 19\}
rts=\{\{433,-1,6,12\},\{131,1,-1,-4\},\{47,-1,-2,0\},\{163,17,-3,10\},
{19,1,0,1}}
f = \{\{-1024592358, 1, 2095926468, -914854428\}, \{1, 0, 0, 0\}, \}
{-19684534,0,1,0},{-45097157,0,0,1}}
```

```
L(n) = \{\{12,36\}, \{36,-72\}\}
q = \{ \{50320119025, -43928625888\}, \{-7321437648, 6391493137\} \}
w = \{8, 25\}
rts=\{\{85,1,-20,-23\},\{7,-1,7,8\},\{5,-1,7,8\},\{5,7,6,7\},\{1,83,-4,-5\},
{5,29,0,-2},{5,13,1,-1},{1,-53,3,3}}
f = \{\{1,0,0,0\}, \{1544468724,1,4126766292,-3602598264\},
{-77515572,0,1,0},{-88793873,0,0,1}}
No.340
L(n) = \{\{-12,36\},\{36,72\}\}
g={{50320119025,43928625888},{7321437648,6391493137}}
w = \{25, 7\}
rts=\{\{53,1,3,-3\},\{25,5,9,-10\},\{7,1,1,-1\},\{5,-7,-6,7\},\{13,-5,-13,15\},
\{5,-7,-6,7\},\{7,1,-7,8\}\}
f = \{\{33303090, -1, 1801997880, 1573114140\}, \{-1, 0, 0, 0\}, \{-33848027, 0, 1, 0\}, \}
{38772821,0,0,1}}
No.341
L(n) = \{\{-24, 36\}, \{36, 36\}\}
g={{50320119025,21964312944},{14642875296,6391493137}}
w = \{12, 27\}
rts=\{\{161,-1,-9,21\},\{17,-1,3,-7\},\{17,593,24,-4\},\{1,-161,0,3\}\}
f = \{\{1,0,0,0\}, \{-3128113458, 1, -2401024716, -1048027356\},
{-22549956,0,1,0},{51661827,0,0,1}}
No.342
L(n) = \{\{-12,42\},\{42,36\}\}
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No.339

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q = \{\{11832207126056839081, 4793520994573980240\},
{1597840331524660080,647324805384218521}}
w = \{-22, 14\}
rts={391,1,7,-16},{511,49,-29,28},{227,-13,6,8},{25,41,6,-9},
{7,257,12,-2},{1,89,2,-1}}
f=\{\{-1,0,0,0\},
\{1235398116186319224, -1, -789395604940920468, -319803766532759172\}
{6824446076273794,0,1,0},{-16845291714896070,0,0,1}}
No.343
L(n) = \{\{-10, 40\}, \{40, 60\}\}\
g={{3465451003966561,2392601988034440},
{398766998005740,275315019920641}}
w = \{-15, -27\}
rts=\{\{6116,-1,11,-24\},\{481,-1,0,-4\},\{2443,2,23,-28\},\{6,1,1,0\},
\{11,-6,-7,-1\},\{19,-19,-12,-2\},\{37,-107,-24,-6\},\{8,-8,-7,-1\},
\{7,-17,-16,-2\},\{4,1,1,0\},\{29,-1,0,1\}\}
f = \{\{-41242733434080, 1, 133264844797280, 92008149078480\}, \{1, 0, 0, 0\}, \}
{1961620329408,0,1,0},{-2841216037580,0,0,1}}
No.344
L(n) = \{\{-20, 40\}, \{40, 30\}\}\
g = \{ \{3465451003966561, 1196300994017220 \}, \}
{797533996011480,275315019920641}}
w = \{11, 9\}
rts=\{\{21,-1,-2,6\},\{18,2,5,1\},\{19,-1,-26,-6\},\{4,-94,20,5\},
\{14,-24,2,3\},\{3,12,1,-1\}\}
f = \{\{-1, 0, 0, 0\}, \{-59339152737080, -1, 266587860586920, 92028230163400\}, \}
{-1962048459578,0,1,0},{5683672284884,0,0,1}}
```

```
L(n) = \{\{-10, 45\}, \{45, 20\}\}\
g = \{\{977002954001, 212000424000\}, \{106000212000, 23001046001\}\}
w = \{-12, 5\}
 rts={{494,1,3,-6},{201,1,2,-6},{173,7,5,-7},{144,-11,5,6},
 {301,51,19,-21},{27,2,1,-2}}
f = \{\{1, -22115249720, -80712885715, -17513934770\}, \{0, 1, 0, 0\}, \}
\{0, -371294674, 1, 0\}, \{0, 1711109755, 0, 1\}\}
No.346
L(n) = \{\{10,40\},\{40,-70\}\}\
g = \{\{2111, -1680\}, \{-240, 191\}\}
w = \{16, -2\}
 rts=\{\{102,-2,-12,1\},\{23,-2,-3,0\},\{6,-1,-1,0\}\}
f = \{\{-55, -1, 90, -100\}, \{-1, 0, 0, 0\}, \{1, 0, 1, 0\}, \{2, 0, 0, 1\}\}
No.347
L(n) = \{\{-10, 40\}, \{40, 70\}\}\
g={{2111,1680},{240,191}}
w = \{-3, 15\}
 rts={{579,1,12,-14},{96,-1,-11,14},{44,1,12,-15}}
f = \{\{20, 1, 480, 380\}, \{1, 0, 0, 0\}, \{8, 0, 1, 0\}, \{-10, 0, 0, 1\}\}
No.348
L(n) = \{\{10,45\}, \{45,-30\}\}
g={{570878281,-183723120},{-61241040,19708921}}
w = \{-9, -7\}
 rts=\{\{222, -3, -8, -23\}, \{2, -3, -1, -3\}, \{12, 7, -7, -22\}, \{3, -2, 1, 3\}, \{12, 7, -7, -22\}, \{3, -2, 1, 3\}, \{12, 7, -7, -22\}, \{3, -2, 1, 3\}, \{12, 7, -7, -22\}, \{3, -2, 1, 3\}, \{12, 7, -7, -22\}, \{3, -2, 1, 3\}, \{12, 7, -7, -22\}, \{3, -2, 1, 3\}, \{12, 7, -7, -22\}, \{3, -2, 1, 3\}, \{12, 7, -7, -22\}, \{3, -2, 1, 3\}, \{12, 7, -7, -22\}, \{3, -2, 1, 3\}, \{12, 7, -7, -22\}, \{3, -2, 1, 3\}, \{12, 7, -7, -22\}, \{3, -2, 1, 3\}, \{12, 7, -7, -22\}, \{3, -2, 1, 3\}, \{12, 7, -7, -22\}, \{3, -2, 1, 3\}, \{12, 7, -7, -22\}, \{3, -2, 1, 3\}, \{12, 7, -7, -22\}, \{3, -2, 1, 3\}, \{12, 7, -7, -22\}, \{3, -2, 1, 3\}, \{12, 7, -7, -22\}, \{3, -2, 1, 3\}, \{12, 7, -7, -22\}, \{3, -2, 1, 3\}, \{12, 7, -7, -22\}, \{3, -2, 1, 3\}, \{12, 7, -7, -22\}, \{3, -2, 1, 3\}, \{12, 7, -7, -22\}, \{3, -2, 1, 3\}, \{12, 7, -7, -22\}, \{3, -2, 1, 3\}, \{12, 7, -7, -22\}, \{3, -2, 1, 3\}, \{12, 7, -7, -22\}, \{3, -2, 1, 3\}, \{12, 7, -7, -22\}, \{3, -2, 1, 3\}, \{12, 7, -7, -22\}, \{3, -2, 1, 3\}, \{12, 7, -7, -22\}, \{3, -2, 1, 3\}, \{12, 7, -7, -22\}, \{3, -2, 1, 3\}, \{12, 7, -7, -22\}, \{3, -2, 1, 3\}, \{12, 7, -7, -22\}, \{3, -2, 1, 3\}, \{12, 7, -7, -22\}, \{3, -2, 1, 3\}, \{12, 7, -7, -22\}, \{3, -2, 1, 3\}, \{12, 7, -7, -22\}, \{3, -2, 1, 3\}, \{12, 7, -7, -22\}, \{3, -2, 1, 3\}, \{12, 7, -7, -22\}, \{3, -2, 1, 3\}, \{12, 7, -7, -22\}, \{3, -2, 1, 3\}, \{12, 7, -7, -22\}, \{3, -2, 1, 3\}, \{12, 7, -7, -22\}, \{3, -2, 1, 3\}, \{12, 7, -7, -22\}, \{3, -2, 1, 3\}, \{12, 7, -7, -22\}, \{3, -2, 1, 3\}, \{12, 7, -7, -22\}, \{3, -2, 1, 3\}, \{12, 7, -2, 1, 3\}, \{12, 7, -2, 1, 2\}, \{12, 7, -2, 1, 2\}, \{12, 7, -2, 1, 2\}, \{12, 7, -2, 1, 2\}, \{12, 7, -2, 1, 2\}, \{12, 7, -2, 1, 2\}, \{12, 7, -2, 1, 2\}, \{12, 7, -2, 1, 2\}, \{12, 7, -2, 1, 2\}, \{12, 7, -2, 1, 2\}, \{12, 7, -2, 1, 2\}, \{12, 7, -2, 1, 2\}, \{12, 7, -2, 1, 2\}, \{12, 7, -2, 1, 2\}, \{12, 7, -2, 1, 2\}, \{12, 7, -2, 1, 2\}, \{12, 7, -2, 1, 2\}, \{12, 7, -2, 1, 2\}, \{12, 7, -2, 1, 2\}, \{12, 7, -2, 1, 2\}, \{12, 7, -2, 1, 2\}, \{12, 7, -2, 1, 2\}, \{12, 7, -2, 1, 2\}, \{12, 7, -2, 1, 2\}, \{12, 7, -2, 1, 2\}, \{12, 7, -2, 1, 2\}, \{12, 7, -2, 1, 2\}, \{12, 7, -2, 1, 2\}, \{12, 7, -2, 1, 2\}, \{12, 7, -2, 1, 2\}, \{12, 7, -2, 1, 2\}, \{12, 7, -2, 1, 2\}, \{12, 7, -2, 1, 2\}, \{12
```

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\{14,6,-7,-22\},\{2,-3,-1,-3\},\{12,37,-7,-23\},\{2,-2,1,3\},\{13,8,-3,-10\},
\{14,6,-2,-7\},\{47,-2,2,5\},\{8,7,-1,1\},\{1,-6,1,0\}\}
f = \{\{0, -1, 0, 0\}, \{-1, 864615, 355200, -114195\}, \{0, 2373, 1, 0\}, \{0, 7366, 0, 1\}\}
No.349
L(n) = \{\{-10, 45\}, \{45, 30\}\}\
g={{570878281,183723120},{61241040,19708921}}
w = \{-25, 18\}
rts=\{\{421,-1,-6,20\},\{42,-2,2,-7\},\{64,-36,-1,-11\},\{256,-41,-1,-25\},
\{8,-7,1,-4\},\{16,-24,5,-17\},\{14,-6,2,-7\},\{34,16,-7,20\},\{4,1,-1,3\}\}
f = \{\{-23860, 1, 1052990, 338880\}, \{1,0,0,0\}, \{7028,0,1,0\}, \{-21838,0,0,1\}\}
No.350
L(n) = \{\{24, 42\}, \{42, -24\}\}
g={{4138625473,-1099071744},{-1099071744,291874369}}
W = \{11, -9\}
rts=\{\{733,-1,-4,-5\},\{301,1,0,-5\},\{43,1,1,-1\},\{1079,-1,-6,-18\},
\{7,-7,-8,2\}\}
f = \{\{-336119898, -1, 275799666, -73242642\}, \{-1, 0, 0, 0\}, \{1514103, 0, 1, 0\}, \}
{5701457,0,0,1}}
No.351
L(n) = \{\{-12, 42\}, \{42, 48\}\}
g={{4138625473,2198143488},{549535872,291874369}}
w = \{30, -26\}
rts=\{\{173,1,-15,28\},\{85,-1,-2,-1\},\{95,1,4,0\},\{97,-1,4,1\},
\{295, -1, 3, 2\}\}
f = \{\{1125852384, 1, -275819916, -146495724\}, \{1,0,0,0\}, \{-3028434,0,1,0\}, \}
{5701874,0,0,1}}
```

```
No.352
L(n) = \{\{30,30\}, \{30,-50\}\}\
g={{7741,-4900},{-2940,1861}}
w = \{-5, -15\}
rts = \{\{607, -2, -18, -27\}, \{94, -1, -9, -14\}, \{107, -2, -16, -25\}\}
f = \{\{-120, -1, 1320, -840\}, \{-1, 0, 0, 0\}, \{17, 0, 1, 0\}, \{27, 0, 0, 1\}\}
No.353
L(n) = \{\{20,40\},\{40,-40\}\}\
g = \{\{8721, -3920\}, \{-1960, 881\}\}
w = \{-14, -7\}
rts=\{\{431,-1,-5,-9\},\{21,1,4,9\},\{29,-1,-5,-11\}\}
f = \{\{20, 1, 440, -200\}, \{1, 0, 0, 0\}, \{-4, 0, 1, 0\}, \{-9, 0, 0, 1\}\}
No.354
L(n) = \{\{10,40\},\{40,-80\}\}\
g = \{\{8721, -7840\}, \{-980, 881\}\}
w = \{2, 7\}
rts={{422,-2,13,13},{318,3,-17,-20},{99,1,-6,-7}}
f = \{\{365, -1, -1570, 1400\}, \{-1, 0, 0, 0\}, \{-29, 0, 1, 0\}, \{-32, 0, 0, 1\}\}
No.355
L(n) = \{\{-10, 40\}, \{40, 80\}\}\
g={{8721,7840},{980,881}}
```

```
w = \{16, 1\}
rts=\{\{18,7,-5,5\},\{17,-7,4,-5\},\{19,-6,3,-4\}\}
f = \{\{-60, -1, 540, 480\}, \{-1, 0, 0, 0\}, \{-10, 0, 1, 0\}, \{11, 0, 0, 1\}\}
No.356
L(n) = \{\{-20, 40\}, \{40, 40\}\}\
g={{8721,3920},{1960,881}}
w = \{-18, -3\}
rts={{21,-1,0,1},{13,7,3,-6},{3,3,1,-2}}
f = \{\{20, -1, -440, -200\}, \{-1, 0, 0, 0\}, \{4, 0, 1, 0\}, \{-9, 0, 0, 1\}\}
No.357
L(n) = \{\{-30,30\}, \{30,50\}\}\
g={{7741,4900},{2940,1861}}
w = \{-3, 12\}
rts={{367,2,14,-21},{19,1,7,-11},{13,-2,-12,19}}
f = \{\{15, 1, -1470, -930\}, \{1, 0, 0, 0\}, \{-19, 0, 1, 0\}, \{30, 0, 0, 1\}\}
No.358
L(n) = \{\{-10, 45\}, \{45, 40\}\}
g = \{ \{3760163107788775346398316252271509290057701564721, 15959218950361 \} \}
94708836620280532989366617831315840},
{398980473759048677209155070133247341654457828960,169338843957337251
515920621072283215167581104081}}
decomposition for g is unclear
```

```
No.359
L(n) = \{\{12,48\}, \{48,-12\}\}
q = \{\{18674305, -2298912\}, \{-2298912, 283009\}\}
w = \{-11, -10\}
rts=\{\{911,-1,-3,-11\},\{319,-1,-3,-22\},\{263,25,5,-19\},\{19,-5,-1,-5\},
\{7,-7,-1,-7\},\{7,7,1,9\},\{1,-7,-1,-8\},\{7,7,1,9\}\}
f = \{\{1, 114, -6036, 744\}, \{0, 1, 0, 0\}, \{0, 15, 1, 0\}, \{0, 122, 0, 1\}\}
No.360
L(n) = \{\{-24, 36\}, \{36, 48\}\}
g={{16375393,9195648},{4597824,2581921}}
w = \{29, -1\}
rts=\{\{193,-1,4,-8\},\{5,-5,3,1\},\{23,1,-1,1\},\{47,-1,-1,-1\},
\{49,-1,-1,-1\},\{31,-7,-9,-3\},\{19,-5,-6,-2\}\}
f = \{\{-1077096, 1, -655188, -368004\}, \{1, 0, 0, 0\}, \{-7435, 0, 1, 0\}, \}
{13243,0,0,1}}
No.361
L(n) = \{\{12,42\}, \{42,-60\}\}
g={{222784849,-145548000},{-29109600,19017649}}
w = \{14, -7\}
rts={{1517,-1,-9,-4},{2317,-7,-28,-19},{857,1,-3,-8}}
f = \{\{-21561870, -1, 9692358, -6332244\}, \{-1, 0, 0, 0\}, \{127048, 0, 1, 0\}, \}
{194471,0,0,1}}
No.362
L(n) = \{\{-12, 42\}, \{42, 60\}\}\
g = \{\{222784849, 145548000\}, \{29109600, 19017649\}\}\
```

```
w = \{22, -28\}
 rts=\{\{77,1,-19,29\},\{19,1,-17,26\},\{1,5,-2,3\},\{79,-71,-15,29\},
\{7,11,3,-4\},\{7,1,2,-3\}\}
f = \{\{-1, 28326600, -594249624, -388230372\}, \{0, -1, 0, 0\}, \{0, 7789574, 1, 0\}, \{0, -1, 0, 0\}, \{0, 7789574, 1, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0, 0\}, \{0, -1, 0
\{0,-11923208,0,1\}\}
No.363
L(n) = \{\{36, 36\}, \{36, -36\}\}\
g={{1311738121,-543339720},{-543339720,225058681}}
w = \{12, 23\}
 rts=\{\{71,-1,10,24\},\{19,1,-2,-5\},\{73,91,-6,-27\},\{1,19,-2,-5\}\}
f = \{\{1,0,0,0\}, \{-47917422,1,-636268572,263551068\}, \{5176632,0,1,0\}, \}
 {12497495,0,0,1}}
No.364
L(n) = \{\{12,48\}, \{48,-24\}\}
g={{1492851361,-362226480},{-181113240,43945441}}
w = \{-30, 0\}
 rts={{715,1,-3,4},{5,-1,-1,-4},{5,-5,2,8},{23,209,3,27},
 {1,103,3,13}}
f = \{\{0,1,0,0\},\{1,-17644056,113110296,-27445152\},\{0,-539074,1,0\},
\{0,-2221696,0,1\}\}
No.365
L(n) = \{\{-12,48\},\{48,24\}\}
g={{1492851361,362226480},{181113240,43945441}}
w = \{-30, 3\}
 rts = \{\{1543, -1, 3, 7\}, \{191, -1, 0, -4\}, \{677, -11, -7, -15\}, \{481, -11, -8, -11\}, \}
```

```
\{193,-1,0,-4\}\}
f={{44190348,1,45231432,10974936},{1,0,0,0},{215570,0,1,0},
{-888429,0,0,1}}
No.366
L(n) = \{\{-12, 42\}, \{42, 72\}\}\
g = \{\{18935502762001, 14618243592000\}, \{2436373932000, 1880885238001\}\}
w = \{-20, -17\}
rts=\{\{649,1,-11,13\},\{5,1,1,0\},\{205,-13,-21,-5\},\{41,-7,2,2\},
\{19,29,-14,-1\},\{1,5,-1,0\}\}
f = \{\{1,0,0,0\}, \{-459359081352,1,610639653738,471414956244\},
{9195824546,0,1,0},{-11911660933,0,0,1}}
No.367
L(n) = \{\{12,48\}, \{48,-36\}\}
g={{12812766721,-4598488440},{-1532829480,550130881}}
w = \{30, -12\}
rts={{55,-1,-3,-8},{305,1,8,23},{17,1,0,1},{1,19,5,14}}
f = \{\{-1,0,0,0\},\{10072800,-1,388068240,-139277280\},\{2662700,0,1,0\},
{7419080,0,0,1}}
No.368
L(n) = \{\{-12,48\},\{48,36\}\}
g={{12812766721,4598488440},{1532829480,550130881}}
W = \{-16, 0\}
rts=\{\{175,11,9,-20\},\{43,5,4,-10\},\{73,11,7,-17\},\{97,31,9,-14\},
\{7,5,1,-1\}\}
f = \{\{110766696, -1, -843909336, -302878176\}, \{-1, 0, 0, 0\}, \{5790418, 0, 1, 0\}, \}
\{-16133840,0,0,1\}\}
```

```
No.369
L(n) = \{\{12,42\}, \{42,-84\}\}
g={{218292066721,-193730322240},{-27675760320,24561744481}}
w = \{8, -11\}
rts=\{\{5,-1,-8,-9\},\{35,-11,8,0\},\{103,17,-10,4\},\{61,-7,-13,1\},
\{13,-5,-9,1\}
f = \{\{-27200039394, 1, -13664296734, 12126819936\}, \{1,0,0,0\}, \}
{230329902,0,1,0},{259531855,0,0,1}}
No.370
L(n) = \{\{-12, 42\}, \{42, 84\}\}
g={{218292066721,193730322240},{27675760320,24561744481}}
w = \{-9, -12\}
rts=\{\{65,1,-9,10\},\{53,5,-18,20\},\{11,29,-5,4\},\{5,5,-2,2\},\{1,5,-1,1\},
{25,-41,-9,12},{5,1,-1,1},{1,23,-16,18}}
f = \{\{1,0,0,0\}, \{-298218834,1,12295658196,10912177710\},
{207259677,0,1,0},{-233536716,0,0,1}}
No.371
L(n) = \{\{48, 24\}, \{24, -48\}\}
g={{75025,-46368},{-46368,28657}}
w = \{-22, -18\}
rts={{263,1,14,23},{25,1,-1,-2},{19,5,0,-2},{109,13,5,-7},
{115,-29,11,2},{71,-49,14,-3},{5,5,-1,1}}
f={{864,-1,2592,-1584},{-1,0,0,0},{30,0,1,0},{48,0,0,1}}
```

```
No.372
L(n) = \{\{24,48\}, \{48,-24\}\}
q = \{\{98209, -23184\}, \{-23184, 5473\}\}
w = \{9, -20\}
rts=\{\{11,1,4,17\},\{13,1,0,-1\},\{107,23,2,-11\},\{67,17,1,-8\},
\{59,1,2,-1\}
f = \{\{-14700, 1, -7560, 1680\}, \{1,0,0,0\}, \{35,0,1,0\}, \{140,0,0,1\}\}
No.373
L(n) = \{\{12,48\}, \{48,-48\}\}
g = \{\{98209, -46368\}, \{-11592, 5473\}\}
w = \{4, -10\}
rts=\{\{121,1,4,9\},\{23,-1,-2,-4\},\{19,-5,-2,-3\},\{13,-19,-3,-2\},
\{1,-53,-3,-6\}\}
f = \{\{0,1,0,0\},\{1,264,-1608,768\},\{0,14,1,0\},\{0,30,0,1\}\}
No.374
L(n) = \{\{-12,48\},\{48,48\}\}
g={{98209,46368},{11592,5473}}
w = \{26, -23\}
rts={{3715,-1,9,-25},{263,1,-12,25},{175,1,-11,23}}
f={{600,-1,4560,2160},{-1,0,0,0},{-40,0,1,0},{85,0,0,1}}
No.375
L(n) = \{\{24, 36\}, \{36, -72\}\}
g = \{\{10009, -7920\}, \{-2640, 2089\}\}\
w = \{-21, 28\}
```

```
rts={{35,1,-15,-19},{13,-1,19,24},{7,-7,8,10},{1,-13,1,1}}
f = \{\{1,0,0,0\}, \{36,1,216,-180\}, \{-3,0,1,0\}, \{-4,0,0,1\}\}
No.376
L(n) = \{\{12,48\}, \{48,-60\}\}\
g = \{\{11329, -6600\}, \{-1320, 769\}\}
w = \{28, 16\}
rts={{509,-1,11,18},{481,1,-10,-18},{281,1,-9,-16}}
f = \{\{72, 1, 216, -144\}, \{1, 0, 0, 0\}, \{-2, 0, 1, 0\}, \{-4, 0, 0, 1\}\}
No.377
L(n) = \{\{-12, 48\}, \{48, 60\}\}\
g={{11329,6600},{1320,769}}
w = \{15, 6\}
rts={{3835,5,28,-18},{143,-5,-11,20},{73,-1,-2,4}}
f = \{\{-162, 1, -324, -216\}, \{1, 0, 0, 0\}, \{-3, 0, 1, 0\}, \{6, 0, 0, 1\}\}
No.378
L(n) = \{\{-24, 36\}, \{36, 72\}\}\
g = \{\{10009, 7920\}, \{2640, 2089\}\}\
w = \{-26, 16\}
rts={35,-1,-15,19},{11,1,1,-1},{203,35,20,-16},{7,-29,-5,-2},
\{1,11,-1,0\}\}
f = \{\{0, -1, 0, 0\}, \{-1, -3216, -3432, -2664\}, \{0, 50, 1, 0\}, \{0, -62, 0, 1\}\}
```

```
No.379
L(n) = \{\{12,54\}, \{54,-12\}\}
q={{322766369353,-35430783696},{-35430783696,3889316089}}
w = \{-9, -27\}
rts={{113,1,3,28},{11,5,1,10},{31,61,2,29},{1,5,0,1},{13,-79,4,5},
{5,-11,1,1},{89,1,2,19}}
f = \{\{-4530472506, 1, 53472298878, -5869773414\}, \{1, 0, 0, 0\}, \}
{-106111053,0,1,0},{-966647523,0,0,1}}
No.380
L(n) = \{\{-36,30\}, \{30,60\}\}\
g = \{\{251904801961, 177153918480\}, \{106292351088, 74750883481\}\}
w = \{25, 14\}
rts = \{\{163, -1, -1, 3\}, \{19, 1, -1, 1\}, \{29, -1, 0, 1\}, \{167, 43, 23, -26\}, \}
\{17,-1,2,-3\}
f = \{\{-1014485202, -1, 9684166428, 6810461790\}, \{-1, 0, 0, 0\}, \}
{-123116383,0,1,0},{175065888,0,0,1}}
No.381
L(n) = \{\{-12,48\},\{48,72\}\}
g={{143809,99288},{16548,11425}}
w = \{-5, -29\}
rts = \{\{4519, 1, -21, 26\}, \{37, -1, 0, 1\}, \{7, -11, 7, 1\}, \{1, 17, -9, -1\}\}
f={{1,0,0,0},{-40638,1,5484,4200},{61,0,1,0},{-99,0,0,1}}
No.382
L(n) = \{\{-24, 48\}, \{48, 36\}\}
g={{143809,49644},{33096,11425}}
```

```
w = \{9, 8\}
rts=\{\{703,1,4,-5\},\{23,-1,-2,6\},\{7,-1,-1,3\}\}
f = \{\{324, 1, -10920, -3768\}, \{1,0,0,0\}, \{-67,0,1,0\}, \{194,0,0,1\}\}
No.383
L(n) = \{\{-12,54\}, \{54,24\}\}
g = \{\{977006862014770009908001, 212001272002120000848000\},
{106000636001060000424000,23001138005230006092001}}
decomposition for g is unclear
No.384
L(n) = \{\{12,48\}, \{48,-84\}\}
g={{4859521,-3867360},{-552480,439681}}
w = \{4, 0\}
rts=\{\{95,23,-4,-10\},\{1,-25,8,10\}\}
f = \{\{-1,0,0,0\}, \{-55104,-1,1269552,-1010352\}, \{17556,0,1,0\}, \}
{22060,0,0,1}}
No.385
L(n) = \{\{-12,48\},\{48,84\}\}
g={{4859521,3867360},{552480,439681}}
w = \{-21, -29\}
rts={{5477,1,-23,24},{5561,-1,15,-24},{4403,-1,11,-19}}
f = \{\{451308, 1, 109452, 86868\}, \{1,0,0,0\}, \{1517,0,1,0\}, \{-1901,0,0,1\}\}
```

```
L(n) = \{\{12,54\}, \{54,-36\}\}
q = \{\{570878281, -183723120\}, \{-61241040, 19708921\}\}
w = \{-16, -23\}
rts={{1001,1,7,24},{37,-5,2,3},{37,37,-6,4},{5,-1,-1,0}}
f = \{\{-1,0,0,0\}, \{-12268254,-1,-63360114,20390904\}, \{-352406,0,1,0\}, \}
\{-1095023,0,0,1\}\}
No.387
L(n) = \{\{-12, 54\}, \{54, 36\}\}
g={{570878281,183723120},{61241040,19708921}}
w = \{-18, -20\}
rts=\{\{4577,1,-10,17\},\{17,-1,0,-1\},\{373,-91,-22,-23\},
\{161, -41, -10, -10\}, \{17, -1, 0, -1\}\}
f={{6105384,1,20391696,6562548},{1,0,0,0},{113418,0,1,0},
\{-352420,0,0,1\}
No.388
L(n) = \{\{36,36\}, \{36,-60\}\}
g={{713707828021,-451772174700},{-271063304820,171581218381}}
w = \{3, 20\}
rts=\{\{239,-1,11,17\},\{469,-7,-18,-25\},\{35,5,1,-2\},\{1,31,-5,-8\}\}
f = \{\{-1, 0, 0, 0\}, \{5910794466, -1, -89439765804, 56614760148\}, \}
{-963036627,0,1,0},{-1521401312,0,0,1}}
No.389
L(n) = \{\{24,48\}, \{48,-48\}\}
q = \{\{804062262961, -361417739760\}, \{-180708869880, 81226783441\}\}
```

```
w = \{-23, 17\}
rts=\{\{35,-1,5,11\},\{5,473,-1,-11\},\{11,-13,-10,-22\},\{13,-23,-11,-24\},
\{11,-1,-9,-20\},\{5,5,-4,-9\},\{13,-1,-9,-20\}\}
f = \{\{320394588, 1, 28841104776, -12963780768\}, \{1, 0, 0, 0\}, \}
\{-220518389,0,1,0\},\{-490597155,0,0,1\}\}
No.390
L(n) = \{\{12,48\}, \{48,-96\}\}
g = \{\{804062262961, -722835479520\}, \{-90354434940, 81226783441\}\}
w = \{-27, 0\}
rts=\{\{473,-7,-20,-19\},\{7,-1,-1\},\{97,-101,-25,-18\},
\{71, -65, -17, -12\}, \{23, -19, -5, -3\}, \{1, -7, -1, -1\}\}
f = \{\{-1,0,0,0\}, \{-4013696538, -1, -33301998252, 29937813264\},
{-509252545,0,1,0},{-566478494,0,0,1}}
No.391
L(n) = \{\{-12,48\},\{48,96\}\}
g={{804062262961,722835479520},{90354434940,81226783441}}
w = \{29, 1\}
rts={{25,1,-2,2},{163,-29,-2,-9},{19,5,4,0},{1,149,11,-12}}
f = \{\{1,0,0,0\}, \{-6287031306,1,-29820568716,-26808079536\},
\{-456014693,0,1,0\},\{507258175,0,0,1\}\}
No.392
L(n) = \{\{-24, 48\}, \{48, 48\}\}
g = \{\{804062262961, 361417739760\}, \{180708869880, 81226783441\}\}
w = \{-13, -15\}
rts=\{35,1,-5,11\},\{61,-1,1,-3\},\{23,-1,0,-1\},\{13,1,-1,0\},
\{37,1,-5,-1\},\{1,-61,3,-7\}\}
```

```
f = \{\{-1,0,0,0\}, \{-6657476292, -1, -44720804520, -20101542912\},
{341934189,0,1,0},{-760716333,0,0,1}}
No.393
L(n) = \{\{-36, 36\}, \{36, 60\}\}\
g={{713707828021,451772174700},{271063304820,171581218381}}
w = \{-24, -21\}
rts=\{749, -1, 5, -10\}, \{49, -1, -3, 5\}, \{121, -55, 4, 13\}, \{1, 17, 2, -3\}\}
f = \{\{-1,0,0,0\},\{2351961246,-1,-24615896868,-15581694396\},
{265050004,0,1,0},{-418724909,0,0,1}}
No.394
L(n) = \{\{-12, 54\}, \{54, 48\}\}
g = \{\{15100164490562065, 6408946218109056\},
{1602236554527264,680035499816689}}
w = \{15, 15\}
rts={{1151,-1,-4,13},{23,-1,0,1},{277,13,-10,10},{133,13,-8,4},
{53,55,-9,9},{5,-5,0,-1},{35,-1,2,-5}}
f = \{\{-94292495247396, -1, 794956290358806, 337402424578974\}, \{-1, 0, 0, 0\}, \}
{-5709670965051,0,1,0},{13452597014411,0,0,1}}
```