

# Rank-76100 over GF(32)

January 15, 2021

## The equation

The equation of the surface is :

$$X_0^3 + X_0^2 X_3 + X_1^2 X_2 + X_1 X_2^2 + X_0 X_3^2 + X_0 X_1 X_2 = 0$$

( 1, 0, 0, 0, 0, 0, 1, 0, 1, 0, 0, 1, 0, 1, 0, 0, 1, 0, 0, 0 )

The point rank of the equation over GF(32) is -2112846810

## General information

Number of lines	3
Number of points	1089
Number of singular points	0
Number of Eckardt points	1
Number of double points	0
Number of single points	96
Number of points off lines	992
Number of Hesse planes	0
Number of axes	0
Type of points on lines	$33^3$
Type of lines on points	$3, 1^{96}, 0^{992}$

## Singular Points

The surface has 0 singular points:

## The 3 Lines

The lines and their Pluecker coordinates are:

$$\begin{aligned} \ell_0 &= \left[ \begin{array}{cccc} 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 1 \end{array} \right]_{1082400} = \left[ \begin{array}{cccc} 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 1 \end{array} \right]_{1082400} = \mathbf{Pl}(0, 0, 0, 1, 0, 0)_{65} \\ \ell_1 &= \left[ \begin{array}{cccc} 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{array} \right]_{1083424} = \left[ \begin{array}{cccc} 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{array} \right]_{1083424} = \mathbf{Pl}(0, 1, 0, 0, 0, 0)_1 \end{aligned}$$

$$\ell_2 = \begin{bmatrix} 0 & 1 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1082433} = \begin{bmatrix} 0 & 1 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1082433} = \mathbf{PI}(0, 1, 0, 1, 0, 0)_{97}$$

Rank of lines: ( 1082400, 1083424, 1082433 )

Rank of points on Klein quadric: ( 65, 1, 97 )

### Eckardt Points

The surface has 1 Eckardt points:

$0 : P_3 = \mathbf{P}(0, 0, 0, 1) = \mathbf{P}(0, 0, 0, 1)$ .

### Double Points

The surface has 0 Double points:

The double points on the surface are:

### Single Points

The surface has 96 single points:

The single points on the surface are:

- |   |   |
|---|---|
| 0 : $P_1 = (0, 1, 0, 0)$ lies on line $\ell_0$        | 29 : $P_{1922} = (0, 27, 0, 1)$ lies on line $\ell_0$   |
| 1 : $P_2 = (0, 0, 1, 0)$ lies on line $\ell_1$        | 30 : $P_{1954} = (0, 28, 0, 1)$ lies on line $\ell_0$   |
| 2 : $P_{67} = (0, 1, 1, 0)$ lies on line $\ell_2$     | 31 : $P_{1986} = (0, 29, 0, 1)$ lies on line $\ell_0$   |
| 3 : $P_{1090} = (0, 1, 0, 1)$ lies on line $\ell_0$   | 32 : $P_{2018} = (0, 30, 0, 1)$ lies on line $\ell_0$   |
| 4 : $P_{1122} = (0, 2, 0, 1)$ lies on line $\ell_0$   | 33 : $P_{2050} = (0, 31, 0, 1)$ lies on line $\ell_0$   |
| 5 : $P_{1154} = (0, 3, 0, 1)$ lies on line $\ell_0$   | 34 : $P_{2082} = (0, 0, 1, 1)$ lies on line $\ell_1$    |
| 6 : $P_{1186} = (0, 4, 0, 1)$ lies on line $\ell_0$   | 35 : $P_{2114} = (0, 1, 1, 1)$ lies on line $\ell_2$    |
| 7 : $P_{1218} = (0, 5, 0, 1)$ lies on line $\ell_0$   | 36 : $P_{3105} = (0, 0, 2, 1)$ lies on line $\ell_1$    |
| 8 : $P_{1250} = (0, 6, 0, 1)$ lies on line $\ell_0$   | 37 : $P_{3169} = (0, 2, 2, 1)$ lies on line $\ell_2$    |
| 9 : $P_{1282} = (0, 7, 0, 1)$ lies on line $\ell_0$   | 38 : $P_{4129} = (0, 0, 3, 1)$ lies on line $\ell_1$    |
| 10 : $P_{1314} = (0, 8, 0, 1)$ lies on line $\ell_0$  | 39 : $P_{4225} = (0, 3, 3, 1)$ lies on line $\ell_2$    |
| 11 : $P_{1346} = (0, 9, 0, 1)$ lies on line $\ell_0$  | 40 : $P_{5153} = (0, 0, 4, 1)$ lies on line $\ell_1$    |
| 12 : $P_{1378} = (0, 10, 0, 1)$ lies on line $\ell_0$ | 41 : $P_{5281} = (0, 4, 4, 1)$ lies on line $\ell_2$    |
| 13 : $P_{1410} = (0, 11, 0, 1)$ lies on line $\ell_0$ | 42 : $P_{6177} = (0, 0, 5, 1)$ lies on line $\ell_1$    |
| 14 : $P_{1442} = (0, 12, 0, 1)$ lies on line $\ell_0$ | 43 : $P_{6337} = (0, 5, 5, 1)$ lies on line $\ell_2$    |
| 15 : $P_{1474} = (0, 13, 0, 1)$ lies on line $\ell_0$ | 44 : $P_{7201} = (0, 0, 6, 1)$ lies on line $\ell_1$    |
| 16 : $P_{1506} = (0, 14, 0, 1)$ lies on line $\ell_0$ | 45 : $P_{7393} = (0, 6, 6, 1)$ lies on line $\ell_2$    |
| 17 : $P_{1538} = (0, 15, 0, 1)$ lies on line $\ell_0$ | 46 : $P_{8225} = (0, 0, 7, 1)$ lies on line $\ell_1$    |
| 18 : $P_{1570} = (0, 16, 0, 1)$ lies on line $\ell_0$ | 47 : $P_{8449} = (0, 7, 7, 1)$ lies on line $\ell_2$    |
| 19 : $P_{1602} = (0, 17, 0, 1)$ lies on line $\ell_0$ | 48 : $P_{9249} = (0, 0, 8, 1)$ lies on line $\ell_1$    |
| 20 : $P_{1634} = (0, 18, 0, 1)$ lies on line $\ell_0$ | 49 : $P_{9505} = (0, 8, 8, 1)$ lies on line $\ell_2$    |
| 21 : $P_{1666} = (0, 19, 0, 1)$ lies on line $\ell_0$ | 50 : $P_{10273} = (0, 0, 9, 1)$ lies on line $\ell_1$   |
| 22 : $P_{1698} = (0, 20, 0, 1)$ lies on line $\ell_0$ | 51 : $P_{10561} = (0, 9, 9, 1)$ lies on line $\ell_2$   |
| 23 : $P_{1730} = (0, 21, 0, 1)$ lies on line $\ell_0$ | 52 : $P_{11297} = (0, 0, 10, 1)$ lies on line $\ell_1$  |
| 24 : $P_{1762} = (0, 22, 0, 1)$ lies on line $\ell_0$ | 53 : $P_{11617} = (0, 10, 10, 1)$ lies on line $\ell_2$ |
| 25 : $P_{1794} = (0, 23, 0, 1)$ lies on line $\ell_0$ | 54 : $P_{12321} = (0, 0, 11, 1)$ lies on line $\ell_1$  |
| 26 : $P_{1826} = (0, 24, 0, 1)$ lies on line $\ell_0$ | 55 : $P_{12673} = (0, 11, 11, 1)$ lies on line $\ell_2$ |
| 27 : $P_{1858} = (0, 25, 0, 1)$ lies on line $\ell_0$ | 56 : $P_{13345} = (0, 0, 12, 1)$ lies on line $\ell_1$  |
| 28 : $P_{1890} = (0, 26, 0, 1)$ lies on line $\ell_0$ | 57 : $P_{13729} = (0, 12, 12, 1)$ lies on line $\ell_2$ |

58 :  $P_{14369} = (0, 0, 13, 1)$  lies on line  $\ell_1$   
 59 :  $P_{14785} = (0, 13, 13, 1)$  lies on line  $\ell_2$   
 60 :  $P_{15393} = (0, 0, 14, 1)$  lies on line  $\ell_1$   
 61 :  $P_{15841} = (0, 14, 14, 1)$  lies on line  $\ell_2$   
 62 :  $P_{16417} = (0, 0, 15, 1)$  lies on line  $\ell_1$   
 63 :  $P_{16897} = (0, 15, 15, 1)$  lies on line  $\ell_2$   
 64 :  $P_{17441} = (0, 0, 16, 1)$  lies on line  $\ell_1$   
 65 :  $P_{17953} = (0, 16, 16, 1)$  lies on line  $\ell_2$   
 66 :  $P_{18465} = (0, 0, 17, 1)$  lies on line  $\ell_1$   
 67 :  $P_{19009} = (0, 17, 17, 1)$  lies on line  $\ell_2$   
 68 :  $P_{19489} = (0, 0, 18, 1)$  lies on line  $\ell_1$   
 69 :  $P_{20065} = (0, 18, 18, 1)$  lies on line  $\ell_2$   
 70 :  $P_{20513} = (0, 0, 19, 1)$  lies on line  $\ell_1$   
 71 :  $P_{21121} = (0, 19, 19, 1)$  lies on line  $\ell_2$   
 72 :  $P_{21537} = (0, 0, 20, 1)$  lies on line  $\ell_1$   
 73 :  $P_{22177} = (0, 20, 20, 1)$  lies on line  $\ell_2$   
 74 :  $P_{22561} = (0, 0, 21, 1)$  lies on line  $\ell_1$   
 75 :  $P_{23233} = (0, 21, 21, 1)$  lies on line  $\ell_2$   
 76 :  $P_{23585} = (0, 0, 22, 1)$  lies on line  $\ell_1$   
 77 :  $P_{24289} = (0, 22, 22, 1)$  lies on line  $\ell_2$

78 :  $P_{24609} = (0, 0, 23, 1)$  lies on line  $\ell_1$   
 79 :  $P_{25345} = (0, 23, 23, 1)$  lies on line  $\ell_2$   
 80 :  $P_{25633} = (0, 0, 24, 1)$  lies on line  $\ell_1$   
 81 :  $P_{26401} = (0, 24, 24, 1)$  lies on line  $\ell_2$   
 82 :  $P_{26657} = (0, 0, 25, 1)$  lies on line  $\ell_1$   
 83 :  $P_{27457} = (0, 25, 25, 1)$  lies on line  $\ell_2$   
 84 :  $P_{27681} = (0, 0, 26, 1)$  lies on line  $\ell_1$   
 85 :  $P_{28513} = (0, 26, 26, 1)$  lies on line  $\ell_2$   
 86 :  $P_{28705} = (0, 0, 27, 1)$  lies on line  $\ell_1$   
 87 :  $P_{29569} = (0, 27, 27, 1)$  lies on line  $\ell_2$   
 88 :  $P_{29729} = (0, 0, 28, 1)$  lies on line  $\ell_1$   
 89 :  $P_{30625} = (0, 28, 28, 1)$  lies on line  $\ell_2$   
 90 :  $P_{30753} = (0, 0, 29, 1)$  lies on line  $\ell_1$   
 91 :  $P_{31681} = (0, 29, 29, 1)$  lies on line  $\ell_2$   
 92 :  $P_{31777} = (0, 0, 30, 1)$  lies on line  $\ell_1$   
 93 :  $P_{32737} = (0, 30, 30, 1)$  lies on line  $\ell_2$   
 94 :  $P_{32801} = (0, 0, 31, 1)$  lies on line  $\ell_1$   
 95 :  $P_{33793} = (0, 31, 31, 1)$  lies on line  $\ell_2$

The single points on the surface are:

#### Points on surface but on no line

The surface has 992 points not on any line:

The points on the surface but not on lines are:

0 : $P_4 = (1, 1, 1, 1)$	24 : $P_{812} = (9, 24, 1, 0)$
1 : $P_{68} = (1, 1, 1, 0)$	25 : $P_{837} = (2, 25, 1, 0)$
2 : $P_{130} = (31, 2, 1, 0)$	26 : $P_{869} = (2, 26, 1, 0)$
3 : $P_{135} = (4, 3, 1, 0)$	27 : $P_{914} = (15, 27, 1, 0)$
4 : $P_{181} = (18, 4, 1, 0)$	28 : $P_{962} = (31, 28, 1, 0)$
5 : $P_{211} = (16, 5, 1, 0)$	29 : $P_{976} = (13, 29, 1, 0)$
6 : $P_{231} = (4, 6, 1, 0)$	30 : $P_{1017} = (22, 30, 1, 0)$
7 : $P_{270} = (11, 7, 1, 0)$	31 : $P_{1047} = (20, 31, 1, 0)$
8 : $P_{297} = (6, 8, 1, 0)$	32 : $P_{2193} = (16, 3, 1, 1)$
9 : $P_{345} = (22, 9, 1, 0)$	33 : $P_{2254} = (13, 5, 1, 1)$
10 : $P_{375} = (20, 10, 1, 0)$	34 : $P_{2285} = (12, 6, 1, 1)$
11 : $P_{412} = (25, 11, 1, 0)$	35 : $P_{2292} = (19, 6, 1, 1)$
12 : $P_{446} = (27, 12, 1, 0)$	36 : $P_{2303} = (30, 6, 1, 1)$
13 : $P_{462} = (11, 13, 1, 0)$	37 : $P_{2325} = (20, 7, 1, 1)$
14 : $P_{512} = (29, 14, 1, 0)$	38 : $P_{2382} = (13, 9, 1, 1)$
15 : $P_{521} = (6, 15, 1, 0)$	39 : $P_{2386} = (17, 9, 1, 1)$
16 : $P_{556} = (9, 16, 1, 0)$	40 : $P_{2398} = (29, 9, 1, 1)$
17 : $P_{592} = (13, 17, 1, 0)$	41 : $P_{2445} = (12, 11, 1, 1)$
18 : $P_{640} = (29, 18, 1, 0)$	42 : $P_{2455} = (22, 11, 1, 1)$
19 : $P_{668} = (25, 19, 1, 0)$	43 : $P_{2460} = (27, 11, 1, 1)$
20 : $P_{691} = (16, 20, 1, 0)$	44 : $P_{2467} = (2, 12, 1, 1)$
21 : $P_{722} = (15, 21, 1, 0)$	45 : $P_{2563} = (2, 15, 1, 1)$
22 : $P_{766} = (27, 22, 1, 0)$	46 : $P_{2586} = (25, 15, 1, 1)$
23 : $P_{789} = (18, 23, 1, 0)$	47 : $P_{2587} = (26, 15, 1, 1)$

48 : $P_{2652} = (27, 17, 1, 1)$	102 : $P_{4122} = (25, 31, 2, 1)$
49 : $P_{2662} = (5, 18, 1, 1)$	103 : $P_{4177} = (16, 1, 3, 1)$
50 : $P_{2673} = (16, 18, 1, 1)$	104 : $P_{4197} = (4, 2, 3, 1)$
51 : $P_{2677} = (20, 18, 1, 1)$	105 : $P_{4210} = (17, 2, 3, 1)$
52 : $P_{2729} = (8, 20, 1, 1)$	106 : $P_{4213} = (20, 2, 3, 1)$
53 : $P_{2740} = (19, 20, 1, 1)$	107 : $P_{4235} = (10, 3, 3, 1)$
54 : $P_{2747} = (26, 20, 1, 1)$	108 : $P_{4236} = (11, 3, 3, 1)$
55 : $P_{2782} = (29, 21, 1, 1)$	109 : $P_{4293} = (4, 5, 3, 1)$
56 : $P_{2790} = (5, 22, 1, 1)$	110 : $P_{4316} = (27, 5, 3, 1)$
57 : $P_{2795} = (10, 22, 1, 1)$	111 : $P_{4319} = (30, 5, 3, 1)$
58 : $P_{2799} = (14, 22, 1, 1)$	112 : $P_{4381} = (28, 7, 3, 1)$
59 : $P_{2842} = (25, 23, 1, 1)$	113 : $P_{4423} = (6, 9, 3, 1)$
60 : $P_{2855} = (6, 24, 1, 1)$	114 : $P_{4459} = (10, 10, 3, 1)$
61 : $P_{2895} = (14, 25, 1, 1)$	115 : $P_{4492} = (11, 11, 3, 1)$
62 : $P_{2898} = (17, 25, 1, 1)$	116 : $P_{4519} = (6, 12, 3, 1)$
63 : $P_{2911} = (30, 25, 1, 1)$	117 : $P_{4563} = (18, 13, 3, 1)$
64 : $P_{2917} = (4, 26, 1, 1)$	118 : $P_{4638} = (29, 15, 3, 1)$
65 : $P_{2999} = (22, 28, 1, 1)$	119 : $P_{4658} = (17, 16, 3, 1)$
66 : $P_{3012} = (3, 29, 1, 1)$	120 : $P_{4702} = (29, 17, 3, 1)$
67 : $P_{3017} = (8, 29, 1, 1)$	121 : $P_{4721} = (16, 18, 3, 1)$
68 : $P_{3019} = (10, 29, 1, 1)$	122 : $P_{4782} = (13, 20, 3, 1)$
69 : $P_{3076} = (3, 31, 1, 1)$	123 : $P_{4821} = (20, 21, 3, 1)$
70 : $P_{3077} = (4, 31, 1, 1)$	124 : $P_{4879} = (14, 23, 3, 1)$
71 : $P_{3079} = (6, 31, 1, 1)$	125 : $P_{4900} = (3, 24, 3, 1)$
72 : $P_{3205} = (4, 3, 2, 1)$	126 : $P_{4925} = (28, 24, 3, 1)$
73 : $P_{3218} = (17, 3, 2, 1)$	127 : $P_{4927} = (30, 24, 3, 1)$
74 : $P_{3221} = (20, 3, 2, 1)$	128 : $P_{4934} = (5, 25, 3, 1)$
75 : $P_{3258} = (25, 4, 2, 1)$	129 : $P_{4963} = (2, 26, 3, 1)$
76 : $P_{3269} = (4, 5, 2, 1)$	130 : $P_{4974} = (13, 26, 3, 1)$
77 : $P_{3362} = (1, 8, 2, 1)$	131 : $P_{4975} = (14, 26, 3, 1)$
78 : $P_{3366} = (5, 8, 2, 1)$	132 : $P_{4995} = (2, 27, 3, 1)$
79 : $P_{3458} = (1, 11, 2, 1)$	133 : $P_{5043} = (18, 28, 3, 1)$
80 : $P_{3485} = (28, 11, 2, 1)$	134 : $P_{5084} = (27, 29, 3, 1)$
81 : $P_{3492} = (3, 12, 2, 1)$	135 : $P_{5126} = (5, 31, 3, 1)$
82 : $P_{3524} = (3, 13, 2, 1)$	136 : $P_{5242} = (25, 2, 4, 1)$
83 : $P_{3590} = (5, 15, 2, 1)$	137 : $P_{5325} = (12, 5, 4, 1)$
84 : $P_{3603} = (18, 15, 2, 1)$	138 : $P_{5329} = (16, 5, 4, 1)$
85 : $P_{3607} = (22, 15, 2, 1)$	139 : $P_{5342} = (29, 5, 4, 1)$
86 : $P_{3634} = (17, 16, 2, 1)$	140 : $P_{5376} = (31, 6, 4, 1)$
87 : $P_{3660} = (11, 17, 2, 1)$	141 : $P_{5381} = (4, 7, 4, 1)$
88 : $P_{3689} = (8, 18, 2, 1)$	142 : $P_{5387} = (10, 7, 4, 1)$
89 : $P_{3760} = (15, 20, 2, 1)$	143 : $P_{5392} = (15, 7, 4, 1)$
90 : $P_{3786} = (9, 21, 2, 1)$	144 : $P_{5451} = (10, 9, 4, 1)$
91 : $P_{3797} = (20, 21, 2, 1)$	145 : $P_{5474} = (1, 10, 4, 1)$
92 : $P_{3805} = (28, 21, 2, 1)$	146 : $P_{5490} = (17, 10, 4, 1)$
93 : $P_{3851} = (10, 23, 2, 1)$	147 : $P_{5552} = (15, 12, 4, 1)$
94 : $P_{3875} = (2, 24, 2, 1)$	148 : $P_{5581} = (12, 13, 4, 1)$
95 : $P_{3881} = (8, 24, 2, 1)$	149 : $P_{5634} = (1, 15, 4, 1)$
96 : $P_{3884} = (11, 24, 2, 1)$	150 : $P_{5656} = (23, 15, 4, 1)$
97 : $P_{3920} = (15, 25, 2, 1)$	151 : $P_{5671} = (6, 16, 4, 1)$
98 : $P_{3991} = (22, 27, 2, 1)$	152 : $P_{5713} = (16, 17, 4, 1)$
99 : $P_{4074} = (9, 30, 2, 1)$	153 : $P_{5735} = (6, 18, 4, 1)$
100 : $P_{4107} = (10, 31, 2, 1)$	154 : $P_{5738} = (9, 18, 4, 1)$
101 : $P_{4115} = (18, 31, 2, 1)$	155 : $P_{5743} = (14, 18, 4, 1)$

156 : $P_{5772} = (11, 19, 4, 1)$	210 : $P_{7695} = (14, 15, 6, 1)$
157 : $P_{5935} = (14, 24, 4, 1)$	211 : $P_{7787} = (10, 18, 6, 1)$
158 : $P_{5990} = (5, 26, 4, 1)$	212 : $P_{7794} = (17, 18, 6, 1)$
159 : $P_{6022} = (5, 27, 4, 1)$	213 : $P_{7803} = (26, 18, 6, 1)$
160 : $P_{6060} = (11, 28, 4, 1)$	214 : $P_{7860} = (19, 20, 6, 1)$
161 : $P_{6072} = (23, 28, 4, 1)$	215 : $P_{7886} = (13, 21, 6, 1)$
162 : $P_{6078} = (29, 28, 4, 1)$	216 : $P_{7916} = (11, 22, 6, 1)$
163 : $P_{6112} = (31, 29, 4, 1)$	217 : $P_{7992} = (23, 24, 6, 1)$
164 : $P_{6154} = (9, 31, 4, 1)$	218 : $P_{8031} = (30, 25, 6, 1)$
165 : $P_{6162} = (17, 31, 4, 1)$	219 : $P_{8049} = (16, 26, 6, 1)$
166 : $P_{6170} = (25, 31, 4, 1)$	220 : $P_{8076} = (11, 27, 6, 1)$
167 : $P_{6222} = (13, 1, 5, 1)$	221 : $P_{8160} = (31, 29, 6, 1)$
168 : $P_{6245} = (4, 2, 5, 1)$	222 : $P_{8167} = (6, 30, 6, 1)$
169 : $P_{6277} = (4, 3, 5, 1)$	223 : $P_{8171} = (10, 30, 6, 1)$
170 : $P_{6300} = (27, 3, 5, 1)$	224 : $P_{8174} = (13, 30, 6, 1)$
171 : $P_{6303} = (30, 3, 5, 1)$	225 : $P_{8277} = (20, 1, 7, 1)$
172 : $P_{6317} = (12, 4, 5, 1)$	226 : $P_{8349} = (28, 3, 7, 1)$
173 : $P_{6321} = (16, 4, 5, 1)$	227 : $P_{8357} = (4, 4, 7, 1)$
174 : $P_{6334} = (29, 4, 5, 1)$	228 : $P_{8363} = (10, 4, 7, 1)$
175 : $P_{6351} = (14, 5, 5, 1)$	229 : $P_{8368} = (15, 4, 7, 1)$
176 : $P_{6352} = (15, 5, 5, 1)$	230 : $P_{8390} = (5, 5, 7, 1)$
177 : $P_{6386} = (17, 6, 5, 1)$	231 : $P_{8404} = (19, 5, 7, 1)$
178 : $P_{6406} = (5, 7, 5, 1)$	232 : $P_{8408} = (23, 5, 7, 1)$
179 : $P_{6420} = (19, 7, 5, 1)$	233 : $P_{8431} = (14, 6, 7, 1)$
180 : $P_{6424} = (23, 7, 5, 1)$	234 : $P_{8453} = (4, 7, 7, 1)$
181 : $P_{6478} = (13, 9, 5, 1)$	235 : $P_{8454} = (5, 7, 7, 1)$
182 : $P_{6549} = (20, 11, 5, 1)$	236 : $P_{8523} = (10, 9, 7, 1)$
183 : $P_{6583} = (22, 12, 5, 1)$	237 : $P_{8534} = (21, 9, 7, 1)$
184 : $P_{6605} = (12, 13, 5, 1)$	238 : $P_{8543} = (30, 9, 7, 1)$
185 : $P_{6639} = (14, 14, 5, 1)$	239 : $P_{8548} = (3, 10, 7, 1)$
186 : $P_{6672} = (15, 15, 5, 1)$	240 : $P_{8601} = (24, 11, 7, 1)$
187 : $P_{6723} = (2, 17, 5, 1)$	241 : $P_{8624} = (15, 12, 7, 1)$
188 : $P_{6737} = (16, 17, 5, 1)$	242 : $P_{8676} = (3, 14, 7, 1)$
189 : $P_{6740} = (19, 17, 5, 1)$	243 : $P_{8689} = (16, 14, 7, 1)$
190 : $P_{6770} = (17, 18, 5, 1)$	244 : $P_{8691} = (18, 14, 7, 1)$
191 : $P_{6872} = (23, 21, 5, 1)$	245 : $P_{8719} = (14, 15, 7, 1)$
192 : $P_{6883} = (2, 22, 5, 1)$	246 : $P_{8767} = (30, 16, 7, 1)$
193 : $P_{6922} = (9, 23, 5, 1)$	247 : $P_{8788} = (19, 17, 7, 1)$
194 : $P_{6975} = (30, 24, 5, 1)$	248 : $P_{8821} = (20, 18, 7, 1)$
195 : $P_{7029} = (20, 26, 5, 1)$	249 : $P_{8889} = (24, 20, 7, 1)$
196 : $P_{7050} = (9, 27, 5, 1)$	250 : $P_{8920} = (23, 21, 7, 1)$
197 : $P_{7102} = (29, 28, 5, 1)$	251 : $P_{9021} = (28, 24, 7, 1)$
198 : $P_{7132} = (27, 29, 5, 1)$	252 : $P_{9041} = (16, 25, 7, 1)$
199 : $P_{7191} = (22, 31, 5, 1)$	253 : $P_{9063} = (6, 26, 7, 1)$
200 : $P_{7245} = (12, 1, 6, 1)$	254 : $P_{9095} = (6, 27, 7, 1)$
201 : $P_{7252} = (19, 1, 6, 1)$	255 : $P_{9107} = (18, 27, 7, 1)$
202 : $P_{7263} = (30, 1, 6, 1)$	256 : $P_{9110} = (21, 27, 7, 1)$
203 : $P_{7360} = (31, 4, 6, 1)$	257 : $P_{9192} = (7, 30, 7, 1)$
204 : $P_{7378} = (17, 5, 6, 1)$	258 : $P_{9314} = (1, 2, 8, 1)$
205 : $P_{7439} = (14, 7, 6, 1)$	259 : $P_{9318} = (5, 2, 8, 1)$
206 : $P_{7512} = (23, 9, 6, 1)$	260 : $P_{9533} = (28, 8, 8, 1)$
207 : $P_{7565} = (12, 11, 6, 1)$	261 : $P_{9534} = (29, 8, 8, 1)$
208 : $P_{7601} = (16, 12, 6, 1)$	262 : $P_{9595} = (26, 10, 8, 1)$
209 : $P_{7675} = (26, 14, 6, 1)$	263 : $P_{9602} = (1, 11, 8, 1)$

264 : $P_{9631} = (30, 11, 8, 1)$	318 : $P_{11259} = (26, 30, 9, 1)$
265 : $P_{9734} = (5, 15, 8, 1)$	319 : $P_{11293} = (28, 31, 9, 1)$
266 : $P_{9746} = (17, 15, 8, 1)$	320 : $P_{11403} = (10, 3, 10, 1)$
267 : $P_{9750} = (21, 15, 8, 1)$	321 : $P_{11426} = (1, 4, 10, 1)$
268 : $P_{9776} = (15, 16, 8, 1)$	322 : $P_{11442} = (17, 4, 10, 1)$
269 : $P_{9846} = (21, 18, 8, 1)$	323 : $P_{11524} = (3, 7, 10, 1)$
270 : $P_{9869} = (12, 19, 8, 1)$	324 : $P_{11579} = (26, 8, 10, 1)$
271 : $P_{9970} = (17, 22, 8, 1)$	325 : $P_{11613} = (28, 9, 10, 1)$
272 : $P_{9987} = (2, 23, 8, 1)$	326 : $P_{11639} = (22, 10, 10, 1)$
273 : $P_{9997} = (12, 23, 8, 1)$	327 : $P_{11640} = (23, 10, 10, 1)$
274 : $P_{10000} = (15, 23, 8, 1)$	328 : $P_{11744} = (31, 13, 10, 1)$
275 : $P_{10043} = (26, 24, 8, 1)$	329 : $P_{11748} = (3, 14, 10, 1)$
276 : $P_{10089} = (8, 26, 8, 1)$	330 : $P_{11778} = (1, 15, 10, 1)$
277 : $P_{10173} = (28, 28, 8, 1)$	331 : $P_{11796} = (19, 15, 10, 1)$
278 : $P_{10179} = (2, 29, 8, 1)$	332 : $P_{12005} = (4, 22, 10, 1)$
279 : $P_{10206} = (29, 29, 8, 1)$	333 : $P_{12020} = (19, 22, 10, 1)$
280 : $P_{10207} = (30, 29, 8, 1)$	334 : $P_{12023} = (22, 22, 10, 1)$
281 : $P_{10318} = (13, 1, 9, 1)$	335 : $P_{12056} = (23, 23, 10, 1)$
282 : $P_{10322} = (17, 1, 9, 1)$	336 : $P_{12069} = (4, 24, 10, 1)$
283 : $P_{10334} = (29, 1, 9, 1)$	337 : $P_{12091} = (26, 24, 10, 1)$
284 : $P_{10375} = (6, 3, 9, 1)$	338 : $P_{12096} = (31, 24, 10, 1)$
285 : $P_{10411} = (10, 4, 9, 1)$	339 : $P_{12109} = (12, 25, 10, 1)$
286 : $P_{10446} = (13, 5, 9, 1)$	340 : $P_{12301} = (12, 31, 10, 1)$
287 : $P_{10488} = (23, 6, 9, 1)$	341 : $P_{12306} = (17, 31, 10, 1)$
288 : $P_{10507} = (10, 7, 9, 1)$	342 : $P_{12317} = (28, 31, 10, 1)$
289 : $P_{10518} = (21, 7, 9, 1)$	343 : $P_{12365} = (12, 1, 11, 1)$
290 : $P_{10527} = (30, 7, 9, 1)$	344 : $P_{12375} = (22, 1, 11, 1)$
291 : $P_{10621} = (28, 10, 9, 1)$	345 : $P_{12380} = (27, 1, 11, 1)$
292 : $P_{10640} = (15, 11, 9, 1)$	346 : $P_{12386} = (1, 2, 11, 1)$
293 : $P_{10663} = (6, 12, 9, 1)$	347 : $P_{12413} = (28, 2, 11, 1)$
294 : $P_{10704} = (15, 13, 9, 1)$	348 : $P_{12428} = (11, 3, 11, 1)$
295 : $P_{10709} = (20, 13, 9, 1)$	349 : $P_{12501} = (20, 5, 11, 1)$
296 : $P_{10715} = (26, 13, 9, 1)$	350 : $P_{12525} = (12, 6, 11, 1)$
297 : $P_{10777} = (24, 15, 9, 1)$	351 : $P_{12569} = (24, 7, 11, 1)$
298 : $P_{10796} = (11, 16, 9, 1)$	352 : $P_{12578} = (1, 8, 11, 1)$
299 : $P_{10805} = (20, 16, 9, 1)$	353 : $P_{12607} = (30, 8, 11, 1)$
300 : $P_{10815} = (30, 16, 9, 1)$	354 : $P_{12624} = (15, 9, 11, 1)$
301 : $P_{10829} = (12, 17, 9, 1)$	355 : $P_{12731} = (26, 12, 11, 1)$
302 : $P_{10860} = (11, 18, 9, 1)$	356 : $P_{12752} = (15, 13, 11, 1)$
303 : $P_{10882} = (1, 19, 9, 1)$	357 : $P_{12756} = (19, 13, 11, 1)$
304 : $P_{10895} = (14, 19, 9, 1)$	358 : $P_{12766} = (29, 13, 11, 1)$
305 : $P_{10916} = (3, 20, 9, 1)$	359 : $P_{12792} = (23, 14, 11, 1)$
306 : $P_{10925} = (12, 20, 9, 1)$	360 : $P_{12832} = (31, 15, 11, 1)$
307 : $P_{10927} = (14, 20, 9, 1)$	361 : $P_{12847} = (14, 16, 11, 1)$
308 : $P_{10974} = (29, 21, 9, 1)$	362 : $P_{12892} = (27, 17, 11, 1)$
309 : $P_{10985} = (8, 22, 9, 1)$	363 : $P_{12920} = (23, 18, 11, 1)$
310 : $P_{11017} = (8, 23, 9, 1)$	364 : $P_{12932} = (3, 19, 11, 1)$
311 : $P_{11064} = (23, 24, 9, 1)$	365 : $P_{12934} = (5, 19, 11, 1)$
312 : $P_{11090} = (17, 25, 9, 1)$	366 : $P_{12936} = (7, 19, 11, 1)$
313 : $P_{11114} = (9, 26, 9, 1)$	367 : $P_{12985} = (24, 20, 11, 1)$
314 : $P_{11138} = (1, 27, 9, 1)$	368 : $P_{13007} = (14, 21, 11, 1)$
315 : $P_{11158} = (21, 27, 9, 1)$	369 : $P_{13012} = (19, 21, 11, 1)$
316 : $P_{11236} = (3, 30, 9, 1)$	370 : $P_{13021} = (28, 21, 11, 1)$
317 : $P_{11257} = (24, 30, 9, 1)$	371 : $P_{13099} = (10, 24, 11, 1)$

372 :  $P_{13131} = (10, 25, 11, 1)$   
 373 :  $P_{13173} = (20, 26, 11, 1)$   
 374 :  $P_{13188} = (3, 27, 11, 1)$   
 375 :  $P_{13214} = (29, 27, 11, 1)$   
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 377 :  $P_{13239} = (22, 28, 11, 1)$   
 378 :  $P_{13254} = (5, 29, 11, 1)$   
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 380 :  $P_{13279} = (30, 29, 11, 1)$   
 381 :  $P_{13320} = (7, 31, 11, 1)$   
 382 :  $P_{13379} = (2, 1, 12, 1)$   
 383 :  $P_{13412} = (3, 2, 12, 1)$   
 384 :  $P_{13447} = (6, 3, 12, 1)$   
 385 :  $P_{13488} = (15, 4, 12, 1)$   
 386 :  $P_{13527} = (22, 5, 12, 1)$   
 387 :  $P_{13553} = (16, 6, 12, 1)$   
 388 :  $P_{13584} = (15, 7, 12, 1)$   
 389 :  $P_{13639} = (6, 9, 12, 1)$   
 390 :  $P_{13723} = (26, 11, 12, 1)$   
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 392 :  $P_{13748} = (19, 12, 12, 1)$   
 393 :  $P_{13764} = (3, 13, 12, 1)$   
 394 :  $P_{13786} = (25, 13, 12, 1)$   
 395 :  $P_{13788} = (27, 13, 12, 1)$   
 396 :  $P_{13827} = (2, 15, 12, 1)$   
 397 :  $P_{13870} = (13, 16, 12, 1)$   
 398 :  $P_{13893} = (4, 17, 12, 1)$   
 399 :  $P_{13897} = (8, 17, 12, 1)$   
 400 :  $P_{13902} = (13, 17, 12, 1)$   
 401 :  $P_{13939} = (18, 18, 12, 1)$   
 402 :  $P_{13972} = (19, 19, 12, 1)$   
 403 :  $P_{14025} = (8, 21, 12, 1)$   
 404 :  $P_{14088} = (7, 23, 12, 1)$   
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 406 :  $P_{14149} = (4, 25, 12, 1)$   
 407 :  $P_{14187} = (10, 26, 12, 1)$   
 408 :  $P_{14193} = (16, 26, 12, 1)$   
 409 :  $P_{14204} = (27, 26, 12, 1)$   
 410 :  $P_{14248} = (7, 28, 12, 1)$   
 411 :  $P_{14251} = (10, 28, 12, 1)$   
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 413 :  $P_{14299} = (26, 29, 12, 1)$   
 414 :  $P_{14359} = (22, 31, 12, 1)$   
 415 :  $P_{14436} = (3, 2, 13, 1)$   
 416 :  $P_{14483} = (18, 3, 13, 1)$   
 417 :  $P_{14509} = (12, 4, 13, 1)$   
 418 :  $P_{14541} = (12, 5, 13, 1)$   
 419 :  $P_{14672} = (15, 9, 13, 1)$   
 420 :  $P_{14677} = (20, 9, 13, 1)$   
 421 :  $P_{14683} = (26, 9, 13, 1)$   
 422 :  $P_{14720} = (31, 10, 13, 1)$   
 423 :  $P_{14736} = (15, 11, 13, 1)$   
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426 :  $P_{14756} = (3, 12, 13, 1)$   
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 428 :  $P_{14780} = (27, 12, 13, 1)$   
 429 :  $P_{14879} = (30, 15, 13, 1)$   
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 431 :  $P_{14946} = (1, 18, 13, 1)$   
 432 :  $P_{14952} = (7, 18, 13, 1)$   
 433 :  $P_{15060} = (19, 21, 13, 1)$   
 434 :  $P_{15144} = (7, 24, 13, 1)$   
 435 :  $P_{15162} = (25, 24, 13, 1)$   
 436 :  $P_{15168} = (31, 24, 13, 1)$   
 437 :  $P_{15178} = (9, 25, 13, 1)$   
 438 :  $P_{15228} = (27, 26, 13, 1)$   
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 444 :  $P_{15330} = (1, 30, 13, 1)$   
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 446 :  $P_{15567} = (14, 5, 14, 1)$   
 447 :  $P_{15611} = (26, 6, 14, 1)$   
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 453 :  $P_{15865} = (24, 14, 14, 1)$   
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 456 :  $P_{15917} = (12, 16, 14, 1)$   
 457 :  $P_{15981} = (12, 18, 14, 1)$   
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 459 :  $P_{15995} = (26, 18, 14, 1)$   
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 462 :  $P_{16201} = (8, 25, 14, 1)$   
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 464 :  $P_{16218} = (25, 25, 14, 1)$   
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 471 :  $P_{16475} = (26, 1, 15, 1)$   
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 474 :  $P_{16503} = (22, 2, 15, 1)$   
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 476 :  $P_{16546} = (1, 4, 15, 1)$   
 477 :  $P_{16568} = (23, 4, 15, 1)$   
 478 :  $P_{16592} = (15, 5, 15, 1)$   
 479 :  $P_{16623} = (14, 6, 15, 1)$

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 482 :  $P_{16690} = (17, 8, 15, 1)$   
 483 :  $P_{16694} = (21, 8, 15, 1)$   
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 487 :  $P_{16800} = (31, 11, 15, 1)$   
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 490 :  $P_{16990} = (29, 17, 15, 1)$   
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 492 :  $P_{17083} = (26, 20, 15, 1)$   
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 494 :  $P_{17124} = (3, 22, 15, 1)$   
 495 :  $P_{17138} = (17, 22, 15, 1)$   
 496 :  $P_{17140} = (19, 22, 15, 1)$   
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 507 :  $P_{17427} = (18, 31, 15, 1)$   
 508 :  $P_{17522} = (17, 2, 16, 1)$   
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 510 :  $P_{17575} = (6, 4, 16, 1)$   
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 512 :  $P_{17712} = (15, 8, 16, 1)$   
 513 :  $P_{17740} = (11, 9, 16, 1)$   
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 515 :  $P_{17759} = (30, 9, 16, 1)$   
 516 :  $P_{17807} = (14, 11, 16, 1)$   
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 520 :  $P_{17901} = (12, 14, 16, 1)$   
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 531 :  $P_{18163} = (18, 22, 16, 1)$   
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534 :  $P_{18201} = (24, 23, 16, 1)$   
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 539 :  $P_{18524} = (27, 1, 17, 1)$   
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 541 :  $P_{18590} = (29, 3, 17, 1)$   
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 543 :  $P_{18627} = (2, 5, 17, 1)$   
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 545 :  $P_{18644} = (19, 5, 17, 1)$   
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 548 :  $P_{18844} = (27, 11, 17, 1)$   
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 550 :  $P_{18857} = (8, 12, 17, 1)$   
 551 :  $P_{18862} = (13, 12, 17, 1)$   
 552 :  $P_{18974} = (29, 15, 17, 1)$   
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 554 :  $P_{18999} = (22, 16, 17, 1)$   
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 559 :  $P_{19117} = (12, 20, 17, 1)$   
 560 :  $P_{19145} = (8, 21, 17, 1)$   
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 564 :  $P_{19223} = (22, 23, 17, 1)$   
 565 :  $P_{19244} = (11, 24, 17, 1)$   
 566 :  $P_{19269} = (4, 25, 17, 1)$   
 567 :  $P_{19322} = (25, 26, 17, 1)$   
 568 :  $P_{19355} = (26, 27, 17, 1)$   
 569 :  $P_{19385} = (24, 28, 17, 1)$   
 570 :  $P_{19455} = (30, 30, 17, 1)$   
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 573 :  $P_{19537} = (16, 1, 18, 1)$   
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 575 :  $P_{19561} = (8, 2, 18, 1)$   
 576 :  $P_{19601} = (16, 3, 18, 1)$   
 577 :  $P_{19623} = (6, 4, 18, 1)$   
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 585 :  $P_{19766} = (21, 8, 18, 1)$   
 586 :  $P_{19788} = (11, 9, 18, 1)$   
 587 :  $P_{19864} = (23, 11, 18, 1)$



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 591 :  $P_{19949} = (12, 14, 18, 1)$   
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 593 :  $P_{19963} = (26, 14, 18, 1)$   
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 603 :  $P_{20271} = (14, 24, 18, 1)$   
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 607 :  $P_{20436} = (19, 29, 18, 1)$   
 608 :  $P_{20450} = (1, 30, 18, 1)$   
 609 :  $P_{20459} = (10, 30, 18, 1)$   
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 612 :  $P_{20781} = (12, 8, 19, 1)$   
 613 :  $P_{20802} = (1, 9, 19, 1)$   
 614 :  $P_{20815} = (14, 9, 19, 1)$   
 615 :  $P_{20868} = (3, 11, 19, 1)$   
 616 :  $P_{20870} = (5, 11, 19, 1)$   
 617 :  $P_{20872} = (7, 11, 19, 1)$   
 618 :  $P_{20916} = (19, 12, 19, 1)$   
 619 :  $P_{21141} = (20, 19, 19, 1)$   
 620 :  $P_{21142} = (21, 19, 19, 1)$   
 621 :  $P_{21167} = (14, 20, 19, 1)$   
 622 :  $P_{21173} = (20, 20, 19, 1)$   
 623 :  $P_{21180} = (27, 20, 19, 1)$   
 624 :  $P_{21206} = (21, 21, 19, 1)$   
 625 :  $P_{21261} = (12, 23, 19, 1)$   
 626 :  $P_{21378} = (1, 27, 19, 1)$   
 627 :  $P_{21380} = (3, 27, 19, 1)$   
 628 :  $P_{21420} = (11, 28, 19, 1)$   
 629 :  $P_{21426} = (17, 28, 19, 1)$   
 630 :  $P_{21436} = (27, 28, 19, 1)$   
 631 :  $P_{21446} = (5, 29, 19, 1)$   
 632 :  $P_{21490} = (17, 30, 19, 1)$   
 633 :  $P_{21512} = (7, 31, 19, 1)$   
 634 :  $P_{21577} = (8, 1, 20, 1)$   
 635 :  $P_{21588} = (19, 1, 20, 1)$   
 636 :  $P_{21595} = (26, 1, 20, 1)$   
 637 :  $P_{21616} = (15, 2, 20, 1)$   
 638 :  $P_{21646} = (13, 3, 20, 1)$   
 639 :  $P_{21748} = (19, 6, 20, 1)$   
 640 :  $P_{21785} = (24, 7, 20, 1)$   
 641 :  $P_{21828} = (3, 9, 20, 1)$

642 :  $P_{21837} = (12, 9, 20, 1)$   
 643 :  $P_{21839} = (14, 9, 20, 1)$   
 644 :  $P_{21913} = (24, 11, 20, 1)$   
 645 :  $P_{22043} = (26, 15, 20, 1)$   
 646 :  $P_{22067} = (18, 16, 20, 1)$   
 647 :  $P_{22093} = (12, 17, 20, 1)$   
 648 :  $P_{22159} = (14, 19, 20, 1)$   
 649 :  $P_{22165} = (20, 19, 20, 1)$   
 650 :  $P_{22172} = (27, 19, 20, 1)$   
 651 :  $P_{22239} = (30, 21, 20, 1)$   
 652 :  $P_{22259} = (18, 22, 20, 1)$   
 653 :  $P_{22352} = (15, 25, 20, 1)$   
 654 :  $P_{22382} = (13, 26, 20, 1)$   
 655 :  $P_{22460} = (27, 28, 20, 1)$   
 656 :  $P_{22473} = (8, 29, 20, 1)$   
 657 :  $P_{22500} = (3, 30, 20, 1)$   
 658 :  $P_{22559} = (30, 31, 20, 1)$   
 659 :  $P_{22622} = (29, 1, 21, 1)$   
 660 :  $P_{22634} = (9, 2, 21, 1)$   
 661 :  $P_{22645} = (20, 2, 21, 1)$   
 662 :  $P_{22653} = (28, 2, 21, 1)$   
 663 :  $P_{22677} = (20, 3, 21, 1)$   
 664 :  $P_{22744} = (23, 5, 21, 1)$   
 665 :  $P_{22766} = (13, 6, 21, 1)$   
 666 :  $P_{22808} = (23, 7, 21, 1)$   
 667 :  $P_{22878} = (29, 9, 21, 1)$   
 668 :  $P_{22927} = (14, 11, 21, 1)$   
 669 :  $P_{22932} = (19, 11, 21, 1)$   
 670 :  $P_{22941} = (28, 11, 21, 1)$   
 671 :  $P_{22953} = (8, 12, 21, 1)$   
 672 :  $P_{22996} = (19, 13, 21, 1)$   
 673 :  $P_{23014} = (5, 14, 21, 1)$   
 674 :  $P_{23048} = (7, 15, 21, 1)$   
 675 :  $P_{23087} = (14, 16, 21, 1)$   
 676 :  $P_{23089} = (16, 16, 21, 1)$   
 677 :  $P_{23104} = (31, 16, 21, 1)$   
 678 :  $P_{23113} = (8, 17, 21, 1)$   
 679 :  $P_{23122} = (17, 17, 21, 1)$   
 680 :  $P_{23129} = (24, 17, 21, 1)$   
 681 :  $P_{23190} = (21, 19, 21, 1)$   
 682 :  $P_{23231} = (30, 20, 21, 1)$   
 683 :  $P_{23249} = (16, 21, 21, 1)$   
 684 :  $P_{23250} = (17, 21, 21, 1)$   
 685 :  $P_{23424} = (31, 26, 21, 1)$   
 686 :  $P_{23481} = (24, 28, 21, 1)$   
 687 :  $P_{23496} = (7, 29, 21, 1)$   
 688 :  $P_{23526} = (5, 30, 21, 1)$   
 689 :  $P_{23530} = (9, 30, 21, 1)$   
 690 :  $P_{23534} = (13, 30, 21, 1)$   
 691 :  $P_{23583} = (30, 31, 21, 1)$   
 692 :  $P_{23622} = (5, 1, 22, 1)$   
 693 :  $P_{23627} = (10, 1, 22, 1)$   
 694 :  $P_{23631} = (14, 1, 22, 1)$   
 695 :  $P_{23747} = (2, 5, 22, 1)$

696 :  $P_{23788} = (11, 6, 22, 1)$   
 697 :  $P_{23858} = (17, 8, 22, 1)$   
 698 :  $P_{23881} = (8, 9, 22, 1)$   
 699 :  $P_{23909} = (4, 10, 22, 1)$   
 700 :  $P_{23924} = (19, 10, 22, 1)$   
 701 :  $P_{23927} = (22, 10, 22, 1)$   
 702 :  $P_{24068} = (3, 15, 22, 1)$   
 703 :  $P_{24082} = (17, 15, 22, 1)$   
 704 :  $P_{24084} = (19, 15, 22, 1)$   
 705 :  $P_{24115} = (18, 16, 22, 1)$   
 706 :  $P_{24131} = (2, 17, 22, 1)$   
 707 :  $P_{24166} = (5, 18, 22, 1)$   
 708 :  $P_{24243} = (18, 20, 22, 1)$   
 709 :  $P_{24329} = (8, 23, 22, 1)$   
 710 :  $P_{24357} = (4, 24, 22, 1)$   
 711 :  $P_{24399} = (14, 25, 22, 1)$   
 712 :  $P_{24420} = (3, 26, 22, 1)$   
 713 :  $P_{24460} = (11, 27, 22, 1)$   
 714 :  $P_{24502} = (21, 28, 22, 1)$   
 715 :  $P_{24523} = (10, 29, 22, 1)$   
 716 :  $P_{24598} = (21, 31, 22, 1)$   
 717 :  $P_{24666} = (25, 1, 23, 1)$   
 718 :  $P_{24683} = (10, 2, 23, 1)$   
 719 :  $P_{24719} = (14, 3, 23, 1)$   
 720 :  $P_{24778} = (9, 5, 23, 1)$   
 721 :  $P_{24867} = (2, 8, 23, 1)$   
 722 :  $P_{24877} = (12, 8, 23, 1)$   
 723 :  $P_{24880} = (15, 8, 23, 1)$   
 724 :  $P_{24905} = (8, 9, 23, 1)$   
 725 :  $P_{24952} = (23, 10, 23, 1)$   
 726 :  $P_{25000} = (7, 12, 23, 1)$   
 727 :  $P_{25114} = (25, 15, 23, 1)$   
 728 :  $P_{25136} = (15, 16, 23, 1)$   
 729 :  $P_{25143} = (22, 16, 23, 1)$   
 730 :  $P_{25145} = (24, 16, 23, 1)$   
 731 :  $P_{25175} = (22, 17, 23, 1)$   
 732 :  $P_{25213} = (28, 18, 23, 1)$   
 733 :  $P_{25229} = (12, 19, 23, 1)$   
 734 :  $P_{25321} = (8, 22, 23, 1)$   
 735 :  $P_{25371} = (26, 23, 23, 1)$   
 736 :  $P_{25372} = (27, 23, 23, 1)$   
 737 :  $P_{25398} = (21, 24, 23, 1)$   
 738 :  $P_{25437} = (28, 25, 23, 1)$   
 739 :  $P_{25455} = (14, 26, 23, 1)$   
 740 :  $P_{25462} = (21, 26, 23, 1)$   
 741 :  $P_{25467} = (26, 26, 23, 1)$   
 742 :  $P_{25482} = (9, 27, 23, 1)$   
 743 :  $P_{25492} = (19, 27, 23, 1)$   
 744 :  $P_{25500} = (27, 27, 23, 1)$   
 745 :  $P_{25512} = (7, 28, 23, 1)$   
 746 :  $P_{25539} = (2, 29, 23, 1)$   
 747 :  $P_{25611} = (10, 31, 23, 1)$   
 748 :  $P_{25620} = (19, 31, 23, 1)$   
 749 :  $P_{25625} = (24, 31, 23, 1)$

750 :  $P_{25671} = (6, 1, 24, 1)$   
 751 :  $P_{25699} = (2, 2, 24, 1)$   
 752 :  $P_{25705} = (8, 2, 24, 1)$   
 753 :  $P_{25708} = (11, 2, 24, 1)$   
 754 :  $P_{25732} = (3, 3, 24, 1)$   
 755 :  $P_{25757} = (28, 3, 24, 1)$   
 756 :  $P_{25759} = (30, 3, 24, 1)$   
 757 :  $P_{25775} = (14, 4, 24, 1)$   
 758 :  $P_{25823} = (30, 5, 24, 1)$   
 759 :  $P_{25848} = (23, 6, 24, 1)$   
 760 :  $P_{25885} = (28, 7, 24, 1)$   
 761 :  $P_{25915} = (26, 8, 24, 1)$   
 762 :  $P_{25944} = (23, 9, 24, 1)$   
 763 :  $P_{25957} = (4, 10, 24, 1)$   
 764 :  $P_{25979} = (26, 10, 24, 1)$   
 765 :  $P_{25984} = (31, 10, 24, 1)$   
 766 :  $P_{25995} = (10, 11, 24, 1)$   
 767 :  $P_{26042} = (25, 12, 24, 1)$   
 768 :  $P_{26056} = (7, 13, 24, 1)$   
 769 :  $P_{26074} = (25, 13, 24, 1)$   
 770 :  $P_{26080} = (31, 13, 24, 1)$   
 771 :  $P_{26105} = (24, 14, 24, 1)$   
 772 :  $P_{26188} = (11, 17, 24, 1)$   
 773 :  $P_{26216} = (7, 18, 24, 1)$   
 774 :  $P_{26217} = (8, 18, 24, 1)$   
 775 :  $P_{26223} = (14, 18, 24, 1)$   
 776 :  $P_{26341} = (4, 22, 24, 1)$   
 777 :  $P_{26390} = (21, 23, 24, 1)$   
 778 :  $P_{26403} = (2, 24, 24, 1)$   
 779 :  $P_{26404} = (3, 24, 24, 1)$   
 780 :  $P_{26443} = (10, 25, 24, 1)$   
 781 :  $P_{26486} = (21, 26, 24, 1)$   
 782 :  $P_{26631} = (6, 31, 24, 1)$   
 783 :  $P_{26703} = (14, 1, 25, 1)$   
 784 :  $P_{26706} = (17, 1, 25, 1)$   
 785 :  $P_{26719} = (30, 1, 25, 1)$   
 786 :  $P_{26736} = (15, 2, 25, 1)$   
 787 :  $P_{26758} = (5, 3, 25, 1)$   
 788 :  $P_{26879} = (30, 6, 25, 1)$   
 789 :  $P_{26897} = (16, 7, 25, 1)$   
 790 :  $P_{26962} = (17, 9, 25, 1)$   
 791 :  $P_{26989} = (12, 10, 25, 1)$   
 792 :  $P_{27019} = (10, 11, 25, 1)$   
 793 :  $P_{27045} = (4, 12, 25, 1)$   
 794 :  $P_{27082} = (9, 13, 25, 1)$   
 795 :  $P_{27113} = (8, 14, 25, 1)$   
 796 :  $P_{27121} = (16, 14, 25, 1)$   
 797 :  $P_{27130} = (25, 14, 25, 1)$   
 798 :  $P_{27205} = (4, 17, 25, 1)$   
 799 :  $P_{27261} = (28, 18, 25, 1)$   
 800 :  $P_{27312} = (15, 20, 25, 1)$   
 801 :  $P_{27375} = (14, 22, 25, 1)$   
 802 :  $P_{27421} = (28, 23, 25, 1)$   
 803 :  $P_{27435} = (10, 24, 25, 1)$

804 : $P_{27594} = (9, 29, 25, 1)$	858 : $P_{29216} = (31, 15, 27, 1)$
805 : $P_{27654} = (5, 31, 25, 1)$	859 : $P_{29243} = (26, 16, 27, 1)$
806 : $P_{27657} = (8, 31, 25, 1)$	860 : $P_{29275} = (26, 17, 27, 1)$
807 : $P_{27661} = (12, 31, 25, 1)$	861 : $P_{29314} = (1, 19, 27, 1)$
808 : $P_{27717} = (4, 1, 26, 1)$	862 : $P_{29316} = (3, 19, 27, 1)$
809 : $P_{27779} = (2, 3, 26, 1)$	863 : $P_{29420} = (11, 22, 27, 1)$
810 : $P_{27790} = (13, 3, 26, 1)$	864 : $P_{29450} = (9, 23, 27, 1)$
811 : $P_{27791} = (14, 3, 26, 1)$	865 : $P_{29460} = (19, 23, 27, 1)$
812 : $P_{27814} = (5, 4, 26, 1)$	866 : $P_{29468} = (27, 23, 27, 1)$
813 : $P_{27861} = (20, 5, 26, 1)$	867 : $P_{29539} = (2, 26, 27, 1)$
814 : $P_{27889} = (16, 6, 26, 1)$	868 : $P_{29542} = (5, 26, 27, 1)$
815 : $P_{27911} = (6, 7, 26, 1)$	869 : $P_{29543} = (6, 26, 27, 1)$
816 : $P_{27945} = (8, 8, 26, 1)$	870 : $P_{29609} = (8, 28, 27, 1)$
817 : $P_{27978} = (9, 9, 26, 1)$	871 : $P_{29716} = (19, 31, 27, 1)$
818 : $P_{28053} = (20, 11, 26, 1)$	872 : $P_{29783} = (22, 1, 28, 1)$
819 : $P_{28075} = (10, 12, 26, 1)$	873 : $P_{29843} = (18, 3, 28, 1)$
820 : $P_{28081} = (16, 12, 26, 1)$	874 : $P_{29868} = (11, 4, 28, 1)$
821 : $P_{28092} = (27, 12, 26, 1)$	875 : $P_{29880} = (23, 4, 28, 1)$
822 : $P_{28124} = (27, 13, 26, 1)$	876 : $P_{29886} = (29, 4, 28, 1)$
823 : $P_{28164} = (3, 15, 26, 1)$	877 : $P_{29918} = (29, 5, 28, 1)$
824 : $P_{28224} = (31, 16, 26, 1)$	878 : $P_{30013} = (28, 8, 28, 1)$
825 : $P_{28250} = (25, 17, 26, 1)$	879 : $P_{30103} = (22, 11, 28, 1)$
826 : $P_{28282} = (25, 18, 26, 1)$	880 : $P_{30120} = (7, 12, 28, 1)$
827 : $P_{28334} = (13, 20, 26, 1)$	881 : $P_{30123} = (10, 12, 28, 1)$
828 : $P_{28384} = (31, 21, 26, 1)$	882 : $P_{30125} = (12, 12, 28, 1)$
829 : $P_{28388} = (3, 22, 26, 1)$	883 : $P_{30158} = (13, 13, 28, 1)$
830 : $P_{28431} = (14, 23, 26, 1)$	884 : $P_{30163} = (18, 13, 28, 1)$
831 : $P_{28438} = (21, 23, 26, 1)$	885 : $P_{30175} = (30, 13, 28, 1)$
832 : $P_{28443} = (26, 23, 26, 1)$	886 : $P_{30217} = (8, 15, 28, 1)$
833 : $P_{28470} = (21, 24, 26, 1)$	887 : $P_{30232} = (23, 15, 28, 1)$
834 : $P_{28521} = (8, 26, 26, 1)$	888 : $P_{30239} = (30, 15, 28, 1)$
835 : $P_{28522} = (9, 26, 26, 1)$	889 : $P_{30297} = (24, 17, 28, 1)$
836 : $P_{28547} = (2, 27, 26, 1)$	890 : $P_{30324} = (19, 18, 28, 1)$
837 : $P_{28550} = (5, 27, 26, 1)$	891 : $P_{30348} = (11, 19, 28, 1)$
838 : $P_{28551} = (6, 27, 26, 1)$	892 : $P_{30354} = (17, 19, 28, 1)$
839 : $P_{28587} = (10, 28, 26, 1)$	893 : $P_{30364} = (27, 19, 28, 1)$
840 : $P_{28677} = (4, 31, 26, 1)$	894 : $P_{30396} = (27, 20, 28, 1)$
841 : $P_{28791} = (22, 2, 27, 1)$	895 : $P_{30425} = (24, 21, 28, 1)$
842 : $P_{28803} = (2, 3, 27, 1)$	896 : $P_{30454} = (21, 22, 28, 1)$
843 : $P_{28838} = (5, 4, 27, 1)$	897 : $P_{30472} = (7, 23, 28, 1)$
844 : $P_{28874} = (9, 5, 27, 1)$	898 : $P_{30571} = (10, 26, 28, 1)$
845 : $P_{28908} = (11, 6, 27, 1)$	899 : $P_{30601} = (8, 27, 28, 1)$
846 : $P_{28935} = (6, 7, 27, 1)$	900 : $P_{30637} = (12, 28, 28, 1)$
847 : $P_{28947} = (18, 7, 27, 1)$	901 : $P_{30638} = (13, 28, 28, 1)$
848 : $P_{28950} = (21, 7, 27, 1)$	902 : $P_{30676} = (19, 29, 28, 1)$
849 : $P_{28994} = (1, 9, 27, 1)$	903 : $P_{30706} = (17, 30, 28, 1)$
850 : $P_{29014} = (21, 9, 27, 1)$	904 : $P_{30742} = (21, 31, 28, 1)$
851 : $P_{29060} = (3, 11, 27, 1)$	905 : $P_{30788} = (3, 1, 29, 1)$
852 : $P_{29086} = (29, 11, 27, 1)$	906 : $P_{30793} = (8, 1, 29, 1)$
853 : $P_{29088} = (31, 11, 27, 1)$	907 : $P_{30795} = (10, 1, 29, 1)$
854 : $P_{29150} = (29, 13, 27, 1)$	908 : $P_{30876} = (27, 3, 29, 1)$
855 : $P_{29171} = (18, 14, 27, 1)$	909 : $P_{30912} = (31, 4, 29, 1)$
856 : $P_{29193} = (8, 15, 27, 1)$	910 : $P_{30940} = (27, 5, 29, 1)$
857 : $P_{29207} = (22, 15, 27, 1)$	911 : $P_{30976} = (31, 6, 29, 1)$

912 : $P_{31011} = (2, 8, 29, 1)$	953 : $P_{32836} = (3, 1, 31, 1)$
913 : $P_{31038} = (29, 8, 29, 1)$	954 : $P_{32837} = (4, 1, 31, 1)$
914 : $P_{31039} = (30, 8, 29, 1)$	955 : $P_{32839} = (6, 1, 31, 1)$
915 : $P_{31110} = (5, 11, 29, 1)$	956 : $P_{32875} = (10, 2, 31, 1)$
916 : $P_{31131} = (26, 11, 29, 1)$	957 : $P_{32883} = (18, 2, 31, 1)$
917 : $P_{31135} = (30, 11, 29, 1)$	958 : $P_{32890} = (25, 2, 31, 1)$
918 : $P_{31163} = (26, 12, 29, 1)$	959 : $P_{32902} = (5, 3, 31, 1)$
919 : $P_{31178} = (9, 13, 29, 1)$	960 : $P_{32938} = (9, 4, 31, 1)$
920 : $P_{31240} = (7, 15, 29, 1)$	961 : $P_{32946} = (17, 4, 31, 1)$
921 : $P_{31348} = (19, 18, 29, 1)$	962 : $P_{32954} = (25, 4, 31, 1)$
922 : $P_{31366} = (5, 19, 29, 1)$	963 : $P_{32983} = (22, 5, 31, 1)$
923 : $P_{31401} = (8, 20, 29, 1)$	964 : $P_{33117} = (28, 9, 31, 1)$
924 : $P_{31432} = (7, 21, 29, 1)$	965 : $P_{33133} = (12, 10, 31, 1)$
925 : $P_{31467} = (10, 22, 29, 1)$	966 : $P_{33138} = (17, 10, 31, 1)$
926 : $P_{31491} = (2, 23, 29, 1)$	967 : $P_{33149} = (28, 10, 31, 1)$
927 : $P_{31562} = (9, 25, 29, 1)$	968 : $P_{33160} = (7, 11, 31, 1)$
928 : $P_{31668} = (19, 28, 29, 1)$	969 : $P_{33207} = (22, 12, 31, 1)$
929 : $P_{31748} = (3, 31, 29, 1)$	970 : $P_{33250} = (1, 14, 31, 1)$
930 : $P_{31850} = (9, 2, 30, 1)$	971 : $P_{33257} = (8, 14, 31, 1)$
931 : $P_{31975} = (6, 6, 30, 1)$	972 : $P_{33299} = (18, 15, 31, 1)$
932 : $P_{31979} = (10, 6, 30, 1)$	973 : $P_{33314} = (1, 16, 31, 1)$
933 : $P_{31982} = (13, 6, 30, 1)$	974 : $P_{33337} = (24, 16, 31, 1)$
934 : $P_{32008} = (7, 7, 30, 1)$	975 : $P_{33376} = (31, 17, 31, 1)$
935 : $P_{32068} = (3, 9, 30, 1)$	976 : $P_{33386} = (9, 18, 31, 1)$
936 : $P_{32089} = (24, 9, 30, 1)$	977 : $P_{33416} = (7, 19, 31, 1)$
937 : $P_{32091} = (26, 9, 30, 1)$	978 : $P_{33471} = (30, 20, 31, 1)$
938 : $P_{32194} = (1, 13, 30, 1)$	979 : $P_{33503} = (30, 21, 31, 1)$
939 : $P_{32219} = (26, 13, 30, 1)$	980 : $P_{33526} = (21, 22, 31, 1)$
940 : $P_{32230} = (5, 14, 30, 1)$	981 : $P_{33547} = (10, 23, 31, 1)$
941 : $P_{32281} = (24, 15, 30, 1)$	982 : $P_{33556} = (19, 23, 31, 1)$
942 : $P_{32351} = (30, 17, 30, 1)$	983 : $P_{33561} = (24, 23, 31, 1)$
943 : $P_{32354} = (1, 18, 30, 1)$	984 : $P_{33575} = (6, 24, 31, 1)$
944 : $P_{32363} = (10, 18, 30, 1)$	985 : $P_{33606} = (5, 25, 31, 1)$
945 : $P_{32402} = (17, 19, 30, 1)$	986 : $P_{33609} = (8, 25, 31, 1)$
946 : $P_{32420} = (3, 20, 30, 1)$	987 : $P_{33613} = (12, 25, 31, 1)$
947 : $P_{32454} = (5, 21, 30, 1)$	988 : $P_{33637} = (4, 26, 31, 1)$
948 : $P_{32458} = (9, 21, 30, 1)$	989 : $P_{33684} = (19, 27, 31, 1)$
949 : $P_{32462} = (13, 21, 30, 1)$	990 : $P_{33718} = (21, 28, 31, 1)$
950 : $P_{32690} = (17, 28, 30, 1)$	991 : $P_{33732} = (3, 29, 31, 1)$
951 : $P_{32743} = (6, 30, 30, 1)$	
952 : $P_{32744} = (7, 30, 30, 1)$	

## Line Intersection Graph

	0 1 2
0	0 1 1
1	1 0 1
2	1 1 0

Neighbor sets in the line intersection graph:

Line 0 intersects

Line	$\ell_1$	$\ell_2$
in point	$P_3$	$P_3$

Line 1 intersects

Line	$\ell_0$	$\ell_2$
in point	$P_3$	$P_3$

Line 2 intersects

Line	$\ell_0$	$\ell_1$
in point	$P_3$	$P_3$

The surface has 1089 points:  
Too many to print.