

Rank-65611 over GF(32)

January 15, 2021

The equation

The equation of the surface is :

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

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

The point rank of the equation over GF(32) is -2112814043

General information

Number of lines	5
Number of points	1089
Number of singular points	3
Number of Eckardt points	2
Number of double points	2
Number of single points	155
Number of points off lines	930
Number of Hesse planes	0
Number of axes	0
Type of points on lines	33^5
Type of lines on points	$3^2, 2^2, 1^{155}, 0^{930}$

Singular Points

The surface has 3 singular points:

$$0 : P_1 = \mathbf{P}(0, 1, 0, 0) = \mathbf{P}(0, 1, 0, 0)$$

$$1 : P_2 = \mathbf{P}(0, 0, 1, 0) = \mathbf{P}(0, 0, 1, 0)$$

$$2 : P_{1059} = \mathbf{P}(1, 0, 0, 1) = \mathbf{P}(1, 0, 0, 1)$$

The 5 Lines

The lines and their Pluecker coordinates are:

$$\ell_0 = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \end{bmatrix}_0 = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \end{bmatrix}_0 = \mathbf{Pl}(1, 0, 0, 0, 0, 0)_0$$

$$\begin{aligned}
\ell_1 &= \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1024} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1024} = \mathbf{Pl}(0, 0, 1, 0, 0, 0)_2 \\
\ell_2 &= \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082368} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082368} = \mathbf{Pl}(0, 0, 0, 0, 0, 1)_{34849} \\
\ell_3 &= \begin{bmatrix} 1 & 0 & 0 & 1 \\ 0 & 1 & 0 & 0 \end{bmatrix}_{33824} = \begin{bmatrix} 1 & 0 & 0 & 1 \\ 0 & 1 & 0 & 0 \end{bmatrix}_{33824} = \mathbf{Pl}(1, 0, 0, 1, 0, 0)_{66} \\
\ell_4 &= \begin{bmatrix} 1 & 0 & 0 & 1 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{34848} = \begin{bmatrix} 1 & 0 & 0 & 1 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{34848} = \mathbf{Pl}(0, 1, 1, 0, 0, 0)_{34}
\end{aligned}$$

Rank of lines: (0, 1024, 1082368, 33824, 34848)

Rank of points on Klein quadric: (0, 2, 34849, 66, 34)

Eckardt Points

The surface has 2 Eckardt points:

$$0 : P_1 = \mathbf{P}(0, 1, 0, 0) = \mathbf{P}(0, 1, 0, 0),$$

$$1 : P_2 = \mathbf{P}(0, 0, 1, 0) = \mathbf{P}(0, 0, 1, 0).$$

Double Points

The surface has 2 Double points:

The double points on the surface are:

$$P_0 = (1, 0, 0, 0) = \ell_0 \cap \ell_1$$

$$P_{1059} = (1, 0, 0, 1) = \ell_3 \cap \ell_4$$

Single Points

The surface has 155 single points:

The single points on the surface are:

$$0 : P_5 = (1, 1, 0, 0) \text{ lies on line } \ell_0$$

$$1 : P_6 = (2, 1, 0, 0) \text{ lies on line } \ell_0$$

$$2 : P_7 = (3, 1, 0, 0) \text{ lies on line } \ell_0$$

$$3 : P_8 = (4, 1, 0, 0) \text{ lies on line } \ell_0$$

$$4 : P_9 = (5, 1, 0, 0) \text{ lies on line } \ell_0$$

$$5 : P_{10} = (6, 1, 0, 0) \text{ lies on line } \ell_0$$

$$6 : P_{11} = (7, 1, 0, 0) \text{ lies on line } \ell_0$$

$$7 : P_{12} = (8, 1, 0, 0) \text{ lies on line } \ell_0$$

$$8 : P_{13} = (9, 1, 0, 0) \text{ lies on line } \ell_0$$

$$9 : P_{14} = (10, 1, 0, 0) \text{ lies on line } \ell_0$$

$$10 : P_{15} = (11, 1, 0, 0) \text{ lies on line } \ell_0$$

$$11 : P_{16} = (12, 1, 0, 0) \text{ lies on line } \ell_0$$

$$12 : P_{17} = (13, 1, 0, 0) \text{ lies on line } \ell_0$$

$$13 : P_{18} = (14, 1, 0, 0) \text{ lies on line } \ell_0$$

$$14 : P_{19} = (15, 1, 0, 0) \text{ lies on line } \ell_0$$

$$15 : P_{20} = (16, 1, 0, 0) \text{ lies on line } \ell_0$$

$$16 : P_{21} = (17, 1, 0, 0) \text{ lies on line } \ell_0$$

$$17 : P_{22} = (18, 1, 0, 0) \text{ lies on line } \ell_0$$

$$18 : P_{23} = (19, 1, 0, 0) \text{ lies on line } \ell_0$$

$$19 : P_{24} = (20, 1, 0, 0) \text{ lies on line } \ell_0$$

$$20 : P_{25} = (21, 1, 0, 0) \text{ lies on line } \ell_0$$

$$21 : P_{26} = (22, 1, 0, 0) \text{ lies on line } \ell_0$$

$$22 : P_{27} = (23, 1, 0, 0) \text{ lies on line } \ell_0$$

$$23 : P_{28} = (24, 1, 0, 0) \text{ lies on line } \ell_0$$

$$24 : P_{29} = (25, 1, 0, 0) \text{ lies on line } \ell_0$$

$$25 : P_{30} = (26, 1, 0, 0) \text{ lies on line } \ell_0$$

$$26 : P_{31} = (27, 1, 0, 0) \text{ lies on line } \ell_0$$

$$27 : P_{32} = (28, 1, 0, 0) \text{ lies on line } \ell_0$$

$$28 : P_{33} = (29, 1, 0, 0) \text{ lies on line } \ell_0$$

$$29 : P_{34} = (30, 1, 0, 0) \text{ lies on line } \ell_0$$

$$30 : P_{35} = (31, 1, 0, 0) \text{ lies on line } \ell_0$$

$$31 : P_{36} = (1, 0, 1, 0) \text{ lies on line } \ell_1$$

$$32 : P_{37} = (2, 0, 1, 0) \text{ lies on line } \ell_1$$

$$33 : P_{38} = (3, 0, 1, 0) \text{ lies on line } \ell_1$$

$$34 : P_{39} = (4, 0, 1, 0) \text{ lies on line } \ell_1$$

$$35 : P_{40} = (5, 0, 1, 0) \text{ lies on line } \ell_1$$

36 : $P_{41} = (6, 0, 1, 0)$ lies on line ℓ_1
 37 : $P_{42} = (7, 0, 1, 0)$ lies on line ℓ_1
 38 : $P_{43} = (8, 0, 1, 0)$ lies on line ℓ_1
 39 : $P_{44} = (9, 0, 1, 0)$ lies on line ℓ_1
 40 : $P_{45} = (10, 0, 1, 0)$ lies on line ℓ_1
 41 : $P_{46} = (11, 0, 1, 0)$ lies on line ℓ_1
 42 : $P_{47} = (12, 0, 1, 0)$ lies on line ℓ_1
 43 : $P_{48} = (13, 0, 1, 0)$ lies on line ℓ_1
 44 : $P_{49} = (14, 0, 1, 0)$ lies on line ℓ_1
 45 : $P_{50} = (15, 0, 1, 0)$ lies on line ℓ_1
 46 : $P_{51} = (16, 0, 1, 0)$ lies on line ℓ_1
 47 : $P_{52} = (17, 0, 1, 0)$ lies on line ℓ_1
 48 : $P_{53} = (18, 0, 1, 0)$ lies on line ℓ_1
 49 : $P_{54} = (19, 0, 1, 0)$ lies on line ℓ_1
 50 : $P_{55} = (20, 0, 1, 0)$ lies on line ℓ_1
 51 : $P_{56} = (21, 0, 1, 0)$ lies on line ℓ_1
 52 : $P_{57} = (22, 0, 1, 0)$ lies on line ℓ_1
 53 : $P_{58} = (23, 0, 1, 0)$ lies on line ℓ_1
 54 : $P_{59} = (24, 0, 1, 0)$ lies on line ℓ_1
 55 : $P_{60} = (25, 0, 1, 0)$ lies on line ℓ_1
 56 : $P_{61} = (26, 0, 1, 0)$ lies on line ℓ_1
 57 : $P_{62} = (27, 0, 1, 0)$ lies on line ℓ_1
 58 : $P_{63} = (28, 0, 1, 0)$ lies on line ℓ_1
 59 : $P_{64} = (29, 0, 1, 0)$ lies on line ℓ_1
 60 : $P_{65} = (30, 0, 1, 0)$ lies on line ℓ_1
 61 : $P_{66} = (31, 0, 1, 0)$ lies on line ℓ_1
 62 : $P_{67} = (0, 1, 1, 0)$ lies on line ℓ_2
 63 : $P_{99} = (0, 2, 1, 0)$ lies on line ℓ_2
 64 : $P_{131} = (0, 3, 1, 0)$ lies on line ℓ_2
 65 : $P_{163} = (0, 4, 1, 0)$ lies on line ℓ_2
 66 : $P_{195} = (0, 5, 1, 0)$ lies on line ℓ_2
 67 : $P_{227} = (0, 6, 1, 0)$ lies on line ℓ_2
 68 : $P_{259} = (0, 7, 1, 0)$ lies on line ℓ_2
 69 : $P_{291} = (0, 8, 1, 0)$ lies on line ℓ_2
 70 : $P_{323} = (0, 9, 1, 0)$ lies on line ℓ_2
 71 : $P_{355} = (0, 10, 1, 0)$ lies on line ℓ_2
 72 : $P_{387} = (0, 11, 1, 0)$ lies on line ℓ_2
 73 : $P_{419} = (0, 12, 1, 0)$ lies on line ℓ_2
 74 : $P_{451} = (0, 13, 1, 0)$ lies on line ℓ_2
 75 : $P_{483} = (0, 14, 1, 0)$ lies on line ℓ_2
 76 : $P_{515} = (0, 15, 1, 0)$ lies on line ℓ_2
 77 : $P_{547} = (0, 16, 1, 0)$ lies on line ℓ_2
 78 : $P_{579} = (0, 17, 1, 0)$ lies on line ℓ_2
 79 : $P_{611} = (0, 18, 1, 0)$ lies on line ℓ_2
 80 : $P_{643} = (0, 19, 1, 0)$ lies on line ℓ_2
 81 : $P_{675} = (0, 20, 1, 0)$ lies on line ℓ_2
 82 : $P_{707} = (0, 21, 1, 0)$ lies on line ℓ_2
 83 : $P_{739} = (0, 22, 1, 0)$ lies on line ℓ_2
 84 : $P_{771} = (0, 23, 1, 0)$ lies on line ℓ_2
 85 : $P_{803} = (0, 24, 1, 0)$ lies on line ℓ_2
 86 : $P_{835} = (0, 25, 1, 0)$ lies on line ℓ_2
 87 : $P_{867} = (0, 26, 1, 0)$ lies on line ℓ_2
 88 : $P_{899} = (0, 27, 1, 0)$ lies on line ℓ_2
 89 : $P_{931} = (0, 28, 1, 0)$ lies on line ℓ_2

90 : $P_{963} = (0, 29, 1, 0)$ lies on line ℓ_2
 91 : $P_{995} = (0, 30, 1, 0)$ lies on line ℓ_2
 92 : $P_{1027} = (0, 31, 1, 0)$ lies on line ℓ_2
 93 : $P_{1091} = (1, 1, 0, 1)$ lies on line ℓ_3
 94 : $P_{1123} = (1, 2, 0, 1)$ lies on line ℓ_3
 95 : $P_{1155} = (1, 3, 0, 1)$ lies on line ℓ_3
 96 : $P_{1187} = (1, 4, 0, 1)$ lies on line ℓ_3
 97 : $P_{1219} = (1, 5, 0, 1)$ lies on line ℓ_3
 98 : $P_{1251} = (1, 6, 0, 1)$ lies on line ℓ_3
 99 : $P_{1283} = (1, 7, 0, 1)$ lies on line ℓ_3
 100 : $P_{1315} = (1, 8, 0, 1)$ lies on line ℓ_3
 101 : $P_{1347} = (1, 9, 0, 1)$ lies on line ℓ_3
 102 : $P_{1379} = (1, 10, 0, 1)$ lies on line ℓ_3
 103 : $P_{1411} = (1, 11, 0, 1)$ lies on line ℓ_3
 104 : $P_{1443} = (1, 12, 0, 1)$ lies on line ℓ_3
 105 : $P_{1475} = (1, 13, 0, 1)$ lies on line ℓ_3
 106 : $P_{1507} = (1, 14, 0, 1)$ lies on line ℓ_3
 107 : $P_{1539} = (1, 15, 0, 1)$ lies on line ℓ_3
 108 : $P_{1571} = (1, 16, 0, 1)$ lies on line ℓ_3
 109 : $P_{1603} = (1, 17, 0, 1)$ lies on line ℓ_3
 110 : $P_{1635} = (1, 18, 0, 1)$ lies on line ℓ_3
 111 : $P_{1667} = (1, 19, 0, 1)$ lies on line ℓ_3
 112 : $P_{1699} = (1, 20, 0, 1)$ lies on line ℓ_3
 113 : $P_{1731} = (1, 21, 0, 1)$ lies on line ℓ_3
 114 : $P_{1763} = (1, 22, 0, 1)$ lies on line ℓ_3
 115 : $P_{1795} = (1, 23, 0, 1)$ lies on line ℓ_3
 116 : $P_{1827} = (1, 24, 0, 1)$ lies on line ℓ_3
 117 : $P_{1859} = (1, 25, 0, 1)$ lies on line ℓ_3
 118 : $P_{1891} = (1, 26, 0, 1)$ lies on line ℓ_3
 119 : $P_{1923} = (1, 27, 0, 1)$ lies on line ℓ_3
 120 : $P_{1955} = (1, 28, 0, 1)$ lies on line ℓ_3
 121 : $P_{1987} = (1, 29, 0, 1)$ lies on line ℓ_3
 122 : $P_{2019} = (1, 30, 0, 1)$ lies on line ℓ_3
 123 : $P_{2051} = (1, 31, 0, 1)$ lies on line ℓ_3
 124 : $P_{2083} = (1, 0, 1, 1)$ lies on line ℓ_4
 125 : $P_{3106} = (1, 0, 2, 1)$ lies on line ℓ_4
 126 : $P_{4130} = (1, 0, 3, 1)$ lies on line ℓ_4
 127 : $P_{5154} = (1, 0, 4, 1)$ lies on line ℓ_4
 128 : $P_{6178} = (1, 0, 5, 1)$ lies on line ℓ_4
 129 : $P_{7202} = (1, 0, 6, 1)$ lies on line ℓ_4
 130 : $P_{8226} = (1, 0, 7, 1)$ lies on line ℓ_4
 131 : $P_{9250} = (1, 0, 8, 1)$ lies on line ℓ_4
 132 : $P_{10274} = (1, 0, 9, 1)$ lies on line ℓ_4
 133 : $P_{11298} = (1, 0, 10, 1)$ lies on line ℓ_4
 134 : $P_{12322} = (1, 0, 11, 1)$ lies on line ℓ_4
 135 : $P_{13346} = (1, 0, 12, 1)$ lies on line ℓ_4
 136 : $P_{14370} = (1, 0, 13, 1)$ lies on line ℓ_4
 137 : $P_{15394} = (1, 0, 14, 1)$ lies on line ℓ_4
 138 : $P_{16418} = (1, 0, 15, 1)$ lies on line ℓ_4
 139 : $P_{17442} = (1, 0, 16, 1)$ lies on line ℓ_4
 140 : $P_{18466} = (1, 0, 17, 1)$ lies on line ℓ_4
 141 : $P_{19490} = (1, 0, 18, 1)$ lies on line ℓ_4
 142 : $P_{20514} = (1, 0, 19, 1)$ lies on line ℓ_4
 143 : $P_{21538} = (1, 0, 20, 1)$ lies on line ℓ_4

144 : $P_{22562} = (1, 0, 21, 1)$ lies on line ℓ_4
 145 : $P_{23586} = (1, 0, 22, 1)$ lies on line ℓ_4
 146 : $P_{24610} = (1, 0, 23, 1)$ lies on line ℓ_4
 147 : $P_{25634} = (1, 0, 24, 1)$ lies on line ℓ_4
 148 : $P_{26658} = (1, 0, 25, 1)$ lies on line ℓ_4
 149 : $P_{27682} = (1, 0, 26, 1)$ lies on line ℓ_4

150 : $P_{28706} = (1, 0, 27, 1)$ lies on line ℓ_4
 151 : $P_{29730} = (1, 0, 28, 1)$ lies on line ℓ_4
 152 : $P_{30754} = (1, 0, 29, 1)$ lies on line ℓ_4
 153 : $P_{31778} = (1, 0, 30, 1)$ lies on line ℓ_4
 154 : $P_{32802} = (1, 0, 31, 1)$ lies on line ℓ_4

The single points on the surface are:

Points on surface but on no line

The surface has 930 points not on any line:

The points on the surface but not on lines are:

0 : $P_{2158} = (13, 2, 1, 1)$	38 : $P_{3348} = (19, 7, 2, 1)$
1 : $P_{2160} = (15, 2, 1, 1)$	39 : $P_{3358} = (29, 7, 2, 1)$
2 : $P_{2236} = (27, 4, 1, 1)$	40 : $P_{3363} = (2, 8, 2, 1)$
3 : $P_{2240} = (31, 4, 1, 1)$	41 : $P_{3379} = (18, 8, 2, 1)$
4 : $P_{2343} = (6, 8, 1, 1)$	42 : $P_{3398} = (5, 9, 2, 1)$
5 : $P_{2351} = (14, 8, 1, 1)$	43 : $P_{3416} = (23, 9, 2, 1)$
6 : $P_{2386} = (17, 9, 1, 1)$	44 : $P_{3593} = (8, 15, 2, 1)$
7 : $P_{2393} = (24, 9, 1, 1)$	45 : $P_{3607} = (22, 15, 2, 1)$
8 : $P_{2421} = (20, 10, 1, 1)$	46 : $P_{3749} = (4, 20, 2, 1)$
9 : $P_{2431} = (30, 10, 1, 1)$	47 : $P_{3754} = (9, 20, 2, 1)$
10 : $P_{2440} = (7, 11, 1, 1)$	48 : $P_{3798} = (21, 21, 2, 1)$
11 : $P_{2445} = (12, 11, 1, 1)$	49 : $P_{3803} = (26, 21, 2, 1)$
12 : $P_{2501} = (4, 13, 1, 1)$	50 : $P_{3826} = (17, 22, 2, 1)$
13 : $P_{2506} = (9, 13, 1, 1)$	51 : $P_{3833} = (24, 22, 2, 1)$
14 : $P_{2548} = (19, 14, 1, 1)$	52 : $P_{3848} = (7, 23, 2, 1)$
15 : $P_{2558} = (29, 14, 1, 1)$	53 : $P_{3853} = (12, 23, 2, 1)$
16 : $P_{2582} = (21, 15, 1, 1)$	54 : $P_{3979} = (10, 27, 2, 1)$
17 : $P_{2587} = (26, 15, 1, 1)$	55 : $P_{3994} = (25, 27, 2, 1)$
18 : $P_{2595} = (2, 16, 1, 1)$	56 : $P_{4036} = (3, 29, 2, 1)$
19 : $P_{2611} = (18, 16, 1, 1)$	57 : $P_{4061} = (28, 29, 2, 1)$
20 : $P_{2662} = (5, 18, 1, 1)$	58 : $P_{4108} = (11, 31, 2, 1)$
21 : $P_{2680} = (23, 18, 1, 1)$	59 : $P_{4113} = (16, 31, 2, 1)$
22 : $P_{2699} = (10, 19, 1, 1)$	60 : $P_{4310} = (21, 5, 3, 1)$
23 : $P_{2714} = (25, 19, 1, 1)$	61 : $P_{4315} = (26, 5, 3, 1)$
24 : $P_{2956} = (11, 27, 1, 1)$	62 : $P_{4341} = (20, 6, 3, 1)$
25 : $P_{2961} = (16, 27, 1, 1)$	63 : $P_{4351} = (30, 6, 3, 1)$
26 : $P_{3049} = (8, 30, 1, 1)$	64 : $P_{4370} = (17, 7, 3, 1)$
27 : $P_{3063} = (22, 30, 1, 1)$	65 : $P_{4377} = (24, 7, 3, 1)$
28 : $P_{3076} = (3, 31, 1, 1)$	66 : $P_{4428} = (11, 9, 3, 1)$
29 : $P_{3101} = (28, 31, 1, 1)$	67 : $P_{4433} = (16, 9, 3, 1)$
30 : $P_{3150} = (13, 1, 2, 1)$	68 : $P_{4457} = (8, 10, 3, 1)$
31 : $P_{3152} = (15, 1, 2, 1)$	69 : $P_{4471} = (22, 10, 3, 1)$
32 : $P_{3196} = (27, 2, 2, 1)$	70 : $P_{4582} = (5, 14, 3, 1)$
33 : $P_{3200} = (31, 2, 2, 1)$	71 : $P_{4600} = (23, 14, 3, 1)$
34 : $P_{3239} = (6, 4, 2, 1)$	72 : $P_{4715} = (10, 18, 3, 1)$
35 : $P_{3247} = (14, 4, 2, 1)$	73 : $P_{4730} = (25, 18, 3, 1)$
36 : $P_{3285} = (20, 5, 2, 1)$	74 : $P_{4739} = (2, 19, 3, 1)$
37 : $P_{3295} = (30, 5, 2, 1)$	75 : $P_{4755} = (18, 19, 3, 1)$

76 : $P_{4836} = (3, 22, 3, 1)$	130 : $P_{6471} = (6, 9, 5, 1)$
77 : $P_{4861} = (28, 22, 3, 1)$	131 : $P_{6479} = (14, 9, 5, 1)$
78 : $P_{4901} = (4, 24, 3, 1)$	132 : $P_{6542} = (13, 11, 5, 1)$
79 : $P_{4906} = (9, 24, 3, 1)$	133 : $P_{6544} = (15, 11, 5, 1)$
80 : $P_{4948} = (19, 25, 3, 1)$	134 : $P_{6635} = (10, 14, 5, 1)$
81 : $P_{4958} = (29, 25, 3, 1)$	135 : $P_{6650} = (25, 14, 5, 1)$
82 : $P_{4968} = (7, 26, 3, 1)$	136 : $P_{6724} = (3, 17, 5, 1)$
83 : $P_{4973} = (12, 26, 3, 1)$	137 : $P_{6749} = (28, 17, 5, 1)$
84 : $P_{4999} = (6, 27, 3, 1)$	138 : $P_{6755} = (2, 18, 5, 1)$
85 : $P_{5007} = (14, 27, 3, 1)$	139 : $P_{6771} = (18, 18, 5, 1)$
86 : $P_{5070} = (13, 29, 3, 1)$	140 : $P_{6836} = (19, 20, 5, 1)$
87 : $P_{5072} = (15, 29, 3, 1)$	141 : $P_{6846} = (29, 20, 5, 1)$
88 : $P_{5148} = (27, 31, 3, 1)$	142 : $P_{6856} = (7, 21, 5, 1)$
89 : $P_{5152} = (31, 31, 3, 1)$	143 : $P_{6861} = (12, 21, 5, 1)$
90 : $P_{5212} = (27, 1, 4, 1)$	144 : $P_{6908} = (27, 22, 5, 1)$
91 : $P_{5216} = (31, 1, 4, 1)$	145 : $P_{6912} = (31, 22, 5, 1)$
92 : $P_{5223} = (6, 2, 4, 1)$	146 : $P_{6982} = (5, 25, 5, 1)$
93 : $P_{5231} = (14, 2, 4, 1)$	147 : $P_{7000} = (23, 25, 5, 1)$
94 : $P_{5283} = (2, 4, 4, 1)$	148 : $P_{7154} = (17, 30, 5, 1)$
95 : $P_{5299} = (18, 4, 4, 1)$	149 : $P_{7161} = (24, 30, 5, 1)$
96 : $P_{5477} = (4, 10, 4, 1)$	150 : $P_{7317} = (20, 3, 6, 1)$
97 : $P_{5482} = (9, 10, 4, 1)$	151 : $P_{7327} = (30, 3, 6, 1)$
98 : $P_{5522} = (17, 11, 4, 1)$	152 : $P_{7369} = (8, 5, 6, 1)$
99 : $P_{5529} = (24, 11, 4, 1)$	153 : $P_{7383} = (22, 5, 6, 1)$
100 : $P_{5685} = (20, 16, 4, 1)$	154 : $P_{7430} = (5, 7, 6, 1)$
101 : $P_{5695} = (30, 16, 4, 1)$	155 : $P_{7448} = (23, 7, 6, 1)$
102 : $P_{5716} = (19, 17, 4, 1)$	156 : $P_{7499} = (10, 9, 6, 1)$
103 : $P_{5726} = (29, 17, 4, 1)$	157 : $P_{7514} = (25, 9, 6, 1)$
104 : $P_{5742} = (13, 18, 4, 1)$	158 : $P_{7556} = (3, 11, 6, 1)$
105 : $P_{5744} = (15, 18, 4, 1)$	159 : $P_{7581} = (28, 11, 6, 1)$
106 : $P_{5833} = (8, 21, 4, 1)$	160 : $P_{7589} = (4, 12, 6, 1)$
107 : $P_{5847} = (22, 21, 4, 1)$	161 : $P_{7594} = (9, 12, 6, 1)$
108 : $P_{5862} = (5, 22, 4, 1)$	162 : $P_{7624} = (7, 13, 6, 1)$
109 : $P_{5880} = (23, 22, 4, 1)$	163 : $P_{7629} = (12, 13, 6, 1)$
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123 : $P_{6299} = (26, 3, 5, 1)$	177 : $P_{8190} = (29, 30, 6, 1)$
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 547 : $P_{20859} = (26, 10, 19, 1)$
 548 : $P_{20917} = (20, 12, 19, 1)$
 549 : $P_{20927} = (30, 12, 19, 1)$
 550 : $P_{20978} = (17, 14, 19, 1)$
 551 : $P_{20985} = (24, 14, 19, 1)$
 552 : $P_{21064} = (7, 17, 19, 1)$
 553 : $P_{21069} = (12, 17, 19, 1)$
 554 : $P_{21100} = (11, 18, 19, 1)$
 555 : $P_{21105} = (16, 18, 19, 1)$
 556 : $P_{21127} = (6, 19, 19, 1)$
 557 : $P_{21135} = (14, 19, 19, 1)$
 558 : $P_{21161} = (8, 20, 19, 1)$
 559 : $P_{21175} = (22, 20, 19, 1)$
 560 : $P_{21189} = (4, 21, 19, 1)$
 561 : $P_{21194} = (9, 21, 19, 1)$

562 : $P_{21268} = (19, 23, 19, 1)$
 563 : $P_{21278} = (29, 23, 19, 1)$
 564 : $P_{21404} = (27, 27, 19, 1)$
 565 : $P_{21408} = (31, 27, 19, 1)$
 566 : $P_{21414} = (5, 28, 19, 1)$
 567 : $P_{21432} = (23, 28, 19, 1)$
 568 : $P_{21518} = (13, 31, 19, 1)$
 569 : $P_{21520} = (15, 31, 19, 1)$
 570 : $P_{21605} = (4, 2, 20, 1)$
 571 : $P_{21610} = (9, 2, 20, 1)$
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 575 : $P_{21903} = (14, 11, 20, 1)$
 576 : $P_{21928} = (7, 12, 20, 1)$
 577 : $P_{21933} = (12, 12, 20, 1)$
 578 : $P_{21956} = (3, 13, 20, 1)$
 579 : $P_{21981} = (28, 13, 20, 1)$
 580 : $P_{22022} = (5, 15, 20, 1)$
 581 : $P_{22040} = (23, 15, 20, 1)$
 582 : $P_{22091} = (10, 17, 20, 1)$
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 584 : $P_{22133} = (20, 18, 20, 1)$
 585 : $P_{22143} = (30, 18, 20, 1)$
 586 : $P_{22153} = (8, 19, 20, 1)$
 587 : $P_{22167} = (22, 19, 20, 1)$
 588 : $P_{22226} = (17, 21, 20, 1)$
 589 : $P_{22233} = (24, 21, 20, 1)$
 590 : $P_{22243} = (2, 22, 20, 1)$
 591 : $P_{22259} = (18, 22, 20, 1)$
 592 : $P_{22300} = (27, 23, 20, 1)$
 593 : $P_{22304} = (31, 23, 20, 1)$
 594 : $P_{22350} = (13, 25, 20, 1)$
 595 : $P_{22352} = (15, 25, 20, 1)$
 596 : $P_{22380} = (11, 26, 20, 1)$
 597 : $P_{22385} = (16, 26, 20, 1)$
 598 : $P_{22422} = (21, 27, 20, 1)$
 599 : $P_{22427} = (26, 27, 20, 1)$
 600 : $P_{22646} = (21, 2, 21, 1)$
 601 : $P_{22651} = (26, 2, 21, 1)$
 602 : $P_{22697} = (8, 4, 21, 1)$
 603 : $P_{22711} = (22, 4, 21, 1)$
 604 : $P_{22728} = (7, 5, 21, 1)$
 605 : $P_{22733} = (12, 5, 21, 1)$
 606 : $P_{22812} = (27, 7, 21, 1)$
 607 : $P_{22816} = (31, 7, 21, 1)$
 608 : $P_{22982} = (5, 13, 21, 1)$
 609 : $P_{23000} = (23, 13, 21, 1)$
 610 : $P_{23015} = (6, 14, 21, 1)$
 611 : $P_{23023} = (14, 14, 21, 1)$
 612 : $P_{23118} = (13, 17, 21, 1)$
 613 : $P_{23120} = (15, 17, 21, 1)$
 614 : $P_{23173} = (4, 19, 21, 1)$
 615 : $P_{23178} = (9, 19, 21, 1)$

616 : $P_{23218} = (17, 20, 21, 1)$
 617 : $P_{23225} = (24, 20, 21, 1)$
 618 : $P_{23307} = (10, 23, 21, 1)$
 619 : $P_{23322} = (25, 23, 21, 1)$
 620 : $P_{23348} = (19, 24, 21, 1)$
 621 : $P_{23358} = (29, 24, 21, 1)$
 622 : $P_{23372} = (11, 25, 21, 1)$
 623 : $P_{23377} = (16, 25, 21, 1)$
 624 : $P_{23459} = (2, 28, 21, 1)$
 625 : $P_{23475} = (18, 28, 21, 1)$
 626 : $P_{23524} = (3, 30, 21, 1)$
 627 : $P_{23549} = (28, 30, 21, 1)$
 628 : $P_{23573} = (20, 31, 21, 1)$
 629 : $P_{23583} = (30, 31, 21, 1)$
 630 : $P_{23666} = (17, 2, 22, 1)$
 631 : $P_{23673} = (24, 2, 22, 1)$
 632 : $P_{23684} = (3, 3, 22, 1)$
 633 : $P_{23709} = (28, 3, 22, 1)$
 634 : $P_{23718} = (5, 4, 22, 1)$
 635 : $P_{23736} = (23, 4, 22, 1)$
 636 : $P_{23772} = (27, 5, 22, 1)$
 637 : $P_{23776} = (31, 5, 22, 1)$
 638 : $P_{23788} = (11, 6, 22, 1)$
 639 : $P_{23793} = (16, 6, 22, 1)$
 640 : $P_{23813} = (4, 7, 22, 1)$
 641 : $P_{23818} = (9, 7, 22, 1)$
 642 : $P_{23911} = (6, 10, 22, 1)$
 643 : $P_{23919} = (14, 10, 22, 1)$
 644 : $P_{23945} = (8, 11, 22, 1)$
 645 : $P_{23959} = (22, 11, 22, 1)$
 646 : $P_{23979} = (10, 12, 22, 1)$
 647 : $P_{23994} = (25, 12, 22, 1)$
 648 : $P_{24110} = (13, 16, 22, 1)$
 649 : $P_{24112} = (15, 16, 22, 1)$
 650 : $P_{24168} = (7, 18, 22, 1)$
 651 : $P_{24173} = (12, 18, 22, 1)$
 652 : $P_{24227} = (2, 20, 22, 1)$
 653 : $P_{24243} = (18, 20, 22, 1)$
 654 : $P_{24342} = (21, 23, 22, 1)$
 655 : $P_{24347} = (26, 23, 22, 1)$
 656 : $P_{24437} = (20, 26, 22, 1)$
 657 : $P_{24447} = (30, 26, 22, 1)$
 658 : $P_{24596} = (19, 31, 22, 1)$
 659 : $P_{24606} = (29, 31, 22, 1)$
 660 : $P_{24680} = (7, 2, 23, 1)$
 661 : $P_{24685} = (12, 2, 23, 1)$
 662 : $P_{24853} = (20, 7, 23, 1)$
 663 : $P_{24863} = (30, 7, 23, 1)$
 664 : $P_{24882} = (17, 8, 23, 1)$
 665 : $P_{24889} = (24, 8, 23, 1)$
 666 : $P_{24905} = (8, 9, 23, 1)$
 667 : $P_{24919} = (22, 9, 23, 1)$
 668 : $P_{24942} = (13, 10, 23, 1)$
 669 : $P_{24944} = (15, 10, 23, 1)$

670 : $P_{24996} = (3, 12, 23, 1)$
 671 : $P_{25021} = (28, 12, 23, 1)$
 672 : $P_{25031} = (6, 13, 23, 1)$
 673 : $P_{25039} = (14, 13, 23, 1)$
 674 : $P_{25126} = (5, 16, 23, 1)$
 675 : $P_{25144} = (23, 16, 23, 1)$
 676 : $P_{25236} = (19, 19, 23, 1)$
 677 : $P_{25246} = (29, 19, 23, 1)$
 678 : $P_{25276} = (27, 20, 23, 1)$
 679 : $P_{25280} = (31, 20, 23, 1)$
 680 : $P_{25291} = (10, 21, 23, 1)$
 681 : $P_{25306} = (25, 21, 23, 1)$
 682 : $P_{25334} = (21, 22, 23, 1)$
 683 : $P_{25339} = (26, 22, 23, 1)$
 684 : $P_{25388} = (11, 24, 23, 1)$
 685 : $P_{25393} = (16, 24, 23, 1)$
 686 : $P_{25443} = (2, 26, 23, 1)$
 687 : $P_{25459} = (18, 26, 23, 1)$
 688 : $P_{25509} = (4, 28, 23, 1)$
 689 : $P_{25514} = (9, 28, 23, 1)$
 690 : $P_{25733} = (4, 3, 24, 1)$
 691 : $P_{25738} = (9, 3, 24, 1)$
 692 : $P_{25782} = (21, 4, 24, 1)$
 693 : $P_{25787} = (26, 4, 24, 1)$
 694 : $P_{25870} = (13, 7, 24, 1)$
 695 : $P_{25872} = (15, 7, 24, 1)$
 696 : $P_{25897} = (8, 8, 24, 1)$
 697 : $P_{25911} = (22, 8, 24, 1)$
 698 : $P_{25960} = (7, 10, 24, 1)$
 699 : $P_{25965} = (12, 10, 24, 1)$
 700 : $P_{25995} = (10, 11, 24, 1)$
 701 : $P_{26010} = (25, 11, 24, 1)$
 702 : $P_{26066} = (17, 13, 24, 1)$
 703 : $P_{26073} = (24, 13, 24, 1)$
 704 : $P_{26108} = (27, 14, 24, 1)$
 705 : $P_{26112} = (31, 14, 24, 1)$
 706 : $P_{26324} = (19, 21, 24, 1)$
 707 : $P_{26334} = (29, 21, 24, 1)$
 708 : $P_{26380} = (11, 23, 24, 1)$
 709 : $P_{26385} = (16, 23, 24, 1)$
 710 : $P_{26436} = (3, 25, 24, 1)$
 711 : $P_{26461} = (28, 25, 24, 1)$
 712 : $P_{26470} = (5, 26, 24, 1)$
 713 : $P_{26488} = (23, 26, 24, 1)$
 714 : $P_{26517} = (20, 27, 24, 1)$
 715 : $P_{26527} = (30, 27, 24, 1)$
 716 : $P_{26535} = (6, 28, 24, 1)$
 717 : $P_{26543} = (14, 28, 24, 1)$
 718 : $P_{26563} = (2, 29, 24, 1)$
 719 : $P_{26579} = (18, 29, 24, 1)$
 720 : $P_{26772} = (19, 3, 25, 1)$
 721 : $P_{26782} = (29, 3, 25, 1)$
 722 : $P_{26792} = (7, 4, 25, 1)$
 723 : $P_{26797} = (12, 4, 25, 1)$

724 : $P_{26822} = (5, 5, 25, 1)$	778 : $P_{28681} = (8, 31, 26, 1)$
725 : $P_{26840} = (23, 5, 25, 1)$	779 : $P_{28695} = (22, 31, 26, 1)$
726 : $P_{26966} = (21, 9, 25, 1)$	780 : $P_{28748} = (11, 1, 27, 1)$
727 : $P_{26971} = (26, 9, 25, 1)$	781 : $P_{28753} = (16, 1, 27, 1)$
728 : $P_{27100} = (27, 13, 25, 1)$	782 : $P_{28779} = (10, 2, 27, 1)$
729 : $P_{27104} = (31, 13, 25, 1)$	783 : $P_{28794} = (25, 2, 27, 1)$
730 : $P_{27125} = (20, 14, 25, 1)$	784 : $P_{28807} = (6, 3, 27, 1)$
731 : $P_{27135} = (30, 14, 25, 1)$	785 : $P_{28815} = (14, 3, 27, 1)$
732 : $P_{27147} = (10, 15, 25, 1)$	786 : $P_{28899} = (2, 6, 27, 1)$
733 : $P_{27162} = (25, 15, 25, 1)$	787 : $P_{28915} = (18, 6, 27, 1)$
734 : $P_{27186} = (17, 16, 25, 1)$	788 : $P_{28936} = (7, 7, 27, 1)$
735 : $P_{27193} = (24, 16, 25, 1)$	789 : $P_{28941} = (12, 7, 27, 1)$
736 : $P_{27203} = (2, 17, 25, 1)$	790 : $P_{29076} = (19, 11, 27, 1)$
737 : $P_{27219} = (18, 17, 25, 1)$	791 : $P_{29086} = (29, 11, 27, 1)$
738 : $P_{27241} = (8, 18, 25, 1)$	792 : $P_{29129} = (8, 13, 27, 1)$
739 : $P_{27255} = (22, 18, 25, 1)$	793 : $P_{29143} = (22, 13, 27, 1)$
740 : $P_{27310} = (13, 20, 25, 1)$	794 : $P_{29189} = (4, 15, 27, 1)$
741 : $P_{27312} = (15, 20, 25, 1)$	795 : $P_{29194} = (9, 15, 27, 1)$
742 : $P_{27340} = (11, 21, 25, 1)$	796 : $P_{29284} = (3, 18, 27, 1)$
743 : $P_{27345} = (16, 21, 25, 1)$	797 : $P_{29309} = (28, 18, 27, 1)$
744 : $P_{27428} = (3, 24, 25, 1)$	798 : $P_{29340} = (27, 19, 27, 1)$
745 : $P_{27453} = (28, 24, 25, 1)$	799 : $P_{29344} = (31, 19, 27, 1)$
746 : $P_{27495} = (6, 26, 25, 1)$	800 : $P_{29366} = (21, 20, 27, 1)$
747 : $P_{27503} = (14, 26, 25, 1)$	801 : $P_{29371} = (26, 20, 27, 1)$
748 : $P_{27589} = (4, 29, 25, 1)$	802 : $P_{29493} = (20, 24, 27, 1)$
749 : $P_{27594} = (9, 29, 25, 1)$	803 : $P_{29503} = (30, 24, 27, 1)$
750 : $P_{27784} = (7, 3, 26, 1)$	804 : $P_{29582} = (13, 27, 27, 1)$
751 : $P_{27789} = (12, 3, 26, 1)$	805 : $P_{29584} = (15, 27, 27, 1)$
752 : $P_{27956} = (19, 8, 26, 1)$	806 : $P_{29618} = (17, 28, 27, 1)$
753 : $P_{27966} = (29, 8, 26, 1)$	807 : $P_{29625} = (24, 28, 27, 1)$
754 : $P_{28004} = (3, 10, 26, 1)$	808 : $P_{29638} = (5, 29, 27, 1)$
755 : $P_{28029} = (28, 10, 26, 1)$	809 : $P_{29656} = (23, 29, 27, 1)$
756 : $P_{28082} = (17, 12, 26, 1)$	810 : $P_{29860} = (3, 4, 28, 1)$
757 : $P_{28089} = (24, 12, 26, 1)$	811 : $P_{29885} = (28, 4, 28, 1)$
758 : $P_{28107} = (10, 13, 26, 1)$	812 : $P_{29934} = (13, 6, 28, 1)$
759 : $P_{28122} = (25, 13, 26, 1)$	813 : $P_{29936} = (15, 6, 28, 1)$
760 : $P_{28174} = (13, 15, 26, 1)$	814 : $P_{29961} = (8, 7, 28, 1)$
761 : $P_{28176} = (15, 15, 26, 1)$	815 : $P_{29975} = (22, 7, 28, 1)$
762 : $P_{28261} = (4, 18, 26, 1)$	816 : $P_{29996} = (11, 8, 28, 1)$
763 : $P_{28266} = (9, 18, 26, 1)$	817 : $P_{30001} = (16, 8, 28, 1)$
764 : $P_{28332} = (11, 20, 26, 1)$	818 : $P_{30140} = (27, 12, 28, 1)$
765 : $P_{28337} = (16, 20, 26, 1)$	819 : $P_{30144} = (31, 12, 28, 1)$
766 : $P_{28405} = (20, 22, 26, 1)$	820 : $P_{30251} = (10, 16, 28, 1)$
767 : $P_{28415} = (30, 22, 26, 1)$	821 : $P_{30266} = (25, 16, 28, 1)$
768 : $P_{28419} = (2, 23, 26, 1)$	822 : $P_{30294} = (21, 17, 28, 1)$
769 : $P_{28435} = (18, 23, 26, 1)$	823 : $P_{30299} = (26, 17, 28, 1)$
770 : $P_{28454} = (5, 24, 26, 1)$	824 : $P_{30324} = (19, 18, 28, 1)$
771 : $P_{28472} = (23, 24, 26, 1)$	825 : $P_{30334} = (29, 18, 28, 1)$
772 : $P_{28487} = (6, 25, 26, 1)$	826 : $P_{30342} = (5, 19, 28, 1)$
773 : $P_{28495} = (14, 25, 26, 1)$	827 : $P_{30360} = (23, 19, 28, 1)$
774 : $P_{28630} = (21, 29, 26, 1)$	828 : $P_{30403} = (2, 21, 28, 1)$
775 : $P_{28635} = (26, 29, 26, 1)$	829 : $P_{30419} = (18, 21, 28, 1)$
776 : $P_{28668} = (27, 30, 26, 1)$	830 : $P_{30469} = (4, 23, 28, 1)$
777 : $P_{28672} = (31, 30, 26, 1)$	831 : $P_{30474} = (9, 23, 28, 1)$

832 : $P_{30503} = (6, 24, 28, 1)$
 833 : $P_{30511} = (14, 24, 28, 1)$
 834 : $P_{30610} = (17, 27, 28, 1)$
 835 : $P_{30617} = (24, 27, 28, 1)$
 836 : $P_{30664} = (7, 29, 28, 1)$
 837 : $P_{30669} = (12, 29, 28, 1)$
 838 : $P_{30709} = (20, 30, 28, 1)$
 839 : $P_{30719} = (30, 30, 28, 1)$
 840 : $P_{30820} = (3, 2, 29, 1)$
 841 : $P_{30845} = (28, 2, 29, 1)$
 842 : $P_{30862} = (13, 3, 29, 1)$
 843 : $P_{30864} = (15, 3, 29, 1)$
 844 : $P_{30892} = (11, 4, 29, 1)$
 845 : $P_{30897} = (16, 4, 29, 1)$
 846 : $P_{30972} = (27, 6, 29, 1)$
 847 : $P_{30976} = (31, 6, 29, 1)$
 848 : $P_{31019} = (10, 8, 29, 1)$
 849 : $P_{31034} = (25, 8, 29, 1)$
 850 : $P_{31060} = (19, 9, 29, 1)$
 851 : $P_{31070} = (29, 9, 29, 1)$
 852 : $P_{31143} = (6, 12, 29, 1)$
 853 : $P_{31151} = (14, 12, 29, 1)$
 854 : $P_{31253} = (20, 15, 29, 1)$
 855 : $P_{31263} = (30, 15, 29, 1)$
 856 : $P_{31305} = (8, 17, 29, 1)$
 857 : $P_{31319} = (22, 17, 29, 1)$
 858 : $P_{31523} = (2, 24, 29, 1)$
 859 : $P_{31539} = (18, 24, 29, 1)$
 860 : $P_{31557} = (4, 25, 29, 1)$
 861 : $P_{31562} = (9, 25, 29, 1)$
 862 : $P_{31606} = (21, 26, 29, 1)$
 863 : $P_{31611} = (26, 26, 29, 1)$
 864 : $P_{31622} = (5, 27, 29, 1)$
 865 : $P_{31640} = (23, 27, 29, 1)$
 866 : $P_{31656} = (7, 28, 29, 1)$
 867 : $P_{31661} = (12, 28, 29, 1)$
 868 : $P_{31762} = (17, 31, 29, 1)$
 869 : $P_{31769} = (24, 31, 29, 1)$
 870 : $P_{31817} = (8, 1, 30, 1)$
 871 : $P_{31831} = (22, 1, 30, 1)$
 872 : $P_{31954} = (17, 5, 30, 1)$
 873 : $P_{31961} = (24, 5, 30, 1)$
 874 : $P_{31988} = (19, 6, 30, 1)$
 875 : $P_{31998} = (29, 6, 30, 1)$
 876 : $P_{32003} = (2, 7, 30, 1)$
 877 : $P_{32019} = (18, 7, 30, 1)$
 878 : $P_{32040} = (7, 8, 30, 1)$
 879 : $P_{32045} = (12, 8, 30, 1)$
 880 : $P_{32102} = (5, 10, 30, 1)$
 881 : $P_{32120} = (23, 10, 30, 1)$

882 : $P_{32206} = (13, 13, 30, 1)$
 883 : $P_{32208} = (15, 13, 30, 1)$
 884 : $P_{32268} = (11, 15, 30, 1)$
 885 : $P_{32273} = (16, 15, 30, 1)$
 886 : $P_{32327} = (6, 17, 30, 1)$
 887 : $P_{32335} = (14, 17, 30, 1)$
 888 : $P_{32374} = (21, 18, 30, 1)$
 889 : $P_{32379} = (26, 18, 30, 1)$
 890 : $P_{32452} = (3, 21, 30, 1)$
 891 : $P_{32477} = (28, 21, 30, 1)$
 892 : $P_{32636} = (27, 26, 30, 1)$
 893 : $P_{32640} = (31, 26, 30, 1)$
 894 : $P_{32693} = (20, 28, 30, 1)$
 895 : $P_{32703} = (30, 28, 30, 1)$
 896 : $P_{32747} = (10, 30, 30, 1)$
 897 : $P_{32762} = (25, 30, 30, 1)$
 898 : $P_{32773} = (4, 31, 30, 1)$
 899 : $P_{32778} = (9, 31, 30, 1)$
 900 : $P_{32836} = (3, 1, 31, 1)$
 901 : $P_{32861} = (28, 1, 31, 1)$
 902 : $P_{32876} = (11, 2, 31, 1)$
 903 : $P_{32881} = (16, 2, 31, 1)$
 904 : $P_{32924} = (27, 3, 31, 1)$
 905 : $P_{32928} = (31, 3, 31, 1)$
 906 : $P_{32939} = (10, 4, 31, 1)$
 907 : $P_{32954} = (25, 4, 31, 1)$
 908 : $P_{32999} = (6, 6, 31, 1)$
 909 : $P_{33007} = (14, 6, 31, 1)$
 910 : $P_{33187} = (2, 12, 31, 1)$
 911 : $P_{33203} = (18, 12, 31, 1)$
 912 : $P_{33238} = (21, 13, 31, 1)$
 913 : $P_{33243} = (26, 13, 31, 1)$
 914 : $P_{33256} = (7, 14, 31, 1)$
 915 : $P_{33261} = (12, 14, 31, 1)$
 916 : $P_{33422} = (13, 19, 31, 1)$
 917 : $P_{33424} = (15, 19, 31, 1)$
 918 : $P_{33493} = (20, 21, 31, 1)$
 919 : $P_{33503} = (30, 21, 31, 1)$
 920 : $P_{33524} = (19, 22, 31, 1)$
 921 : $P_{33534} = (29, 22, 31, 1)$
 922 : $P_{33641} = (8, 26, 31, 1)$
 923 : $P_{33655} = (22, 26, 31, 1)$
 924 : $P_{33746} = (17, 29, 31, 1)$
 925 : $P_{33753} = (24, 29, 31, 1)$
 926 : $P_{33765} = (4, 30, 31, 1)$
 927 : $P_{33770} = (9, 30, 31, 1)$
 928 : $P_{33798} = (5, 31, 31, 1)$
 929 : $P_{33816} = (23, 31, 31, 1)$

Line Intersection Graph

	0	1	2	3	4
0	0	1	1	1	0
1	1	0	1	0	1
2	1	1	0	1	1
3	1	0	1	0	1
4	0	1	1	1	0

Neighbor sets in the line intersection graph:

Line 0 intersects

Line	ℓ_1	ℓ_2	ℓ_3
in point	P_0	P_1	P_1

Line 1 intersects

Line	ℓ_0	ℓ_2	ℓ_4
in point	P_0	P_2	P_2

Line 2 intersects

Line	ℓ_0	ℓ_1	ℓ_3	ℓ_4
in point	P_1	P_2	P_1	P_2

Line 3 intersects

Line	ℓ_0	ℓ_2	ℓ_4
in point	P_1	P_1	P_{1059}

Line 4 intersects

Line	ℓ_1	ℓ_2	ℓ_3
in point	P_2	P_2	P_{1059}

The surface has 1089 points:

Too many to print.