

Rank-74531 over GF(32)

January 15, 2021

The equation

The equation of the surface is :

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

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

The point rank of the equation over GF(32) is 1141933093

General information

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|----------------------------|-------------------------|
| Number of lines | 4 |
| Number of points | 1089 |
| Number of singular points | 1 |
| Number of Eckardt points | 0 |
| Number of double points | 4 |
| Number of single points | 124 |
| Number of points off lines | 961 |
| Number of Hesse planes | 0 |
| Number of axes | 0 |
| Type of points on lines | 33^4 |
| Type of lines on points | $2^4, 1^{124}, 0^{961}$ |

Singular Points

The surface has 1 singular points:

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

The 4 Lines

The lines and their Pluecker coordinates are:

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

$$\begin{aligned}\ell_1 &= \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1082369} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1082369} = \mathbf{Pl}(0, 0, 0, 1, 0, 1)_{36865} \\ \ell_2 &= \begin{bmatrix} 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1083424} = \begin{bmatrix} 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1083424} = \mathbf{Pl}(0, 1, 0, 0, 0, 0)_1 \\ \ell_3 &= \begin{bmatrix} 1 & 0 & 1 & 1 \\ 0 & 1 & 1 & 1 \end{bmatrix}_{34914} = \begin{bmatrix} 1 & 0 & 1 & 1 \\ 0 & 1 & 1 & 1 \end{bmatrix}_{34914} = \mathbf{Pl}(1, 0, 1, 1, 1, 1)_{70563}\end{aligned}$$

Rank of lines: (0, 1082369, 1083424, 34914)

Rank of points on Klein quadric: (0, 36865, 1, 70563)

Eckardt Points

The surface has 0 Eckardt points:

Double Points

The surface has 4 Double points:

The double points on the surface are:

$$P_1 = (0, 1, 0, 0) = \ell_0 \cap \ell_1$$

$$P_5 = (1, 1, 0, 0) = \ell_0 \cap \ell_3$$

$$P_{2082} = (0, 0, 1, 1) = \ell_1 \cap \ell_2$$

$$P_{2114} = (0, 1, 1, 1) = \ell_1 \cap \ell_3$$

Single Points

The surface has 124 single points:

The single points on the surface are:

- 0 : $P_0 = (1, 0, 0, 0)$ lies on line ℓ_0
- 1 : $P_2 = (0, 0, 1, 0)$ lies on line ℓ_2
- 2 : $P_3 = (0, 0, 0, 1)$ lies on line ℓ_2
- 3 : $P_6 = (2, 1, 0, 0)$ lies on line ℓ_0
- 4 : $P_7 = (3, 1, 0, 0)$ lies on line ℓ_0
- 5 : $P_8 = (4, 1, 0, 0)$ lies on line ℓ_0
- 6 : $P_9 = (5, 1, 0, 0)$ lies on line ℓ_0
- 7 : $P_{10} = (6, 1, 0, 0)$ lies on line ℓ_0
- 8 : $P_{11} = (7, 1, 0, 0)$ lies on line ℓ_0
- 9 : $P_{12} = (8, 1, 0, 0)$ lies on line ℓ_0
- 10 : $P_{13} = (9, 1, 0, 0)$ lies on line ℓ_0
- 11 : $P_{14} = (10, 1, 0, 0)$ lies on line ℓ_0
- 12 : $P_{15} = (11, 1, 0, 0)$ lies on line ℓ_0
- 13 : $P_{16} = (12, 1, 0, 0)$ lies on line ℓ_0
- 14 : $P_{17} = (13, 1, 0, 0)$ lies on line ℓ_0
- 15 : $P_{18} = (14, 1, 0, 0)$ lies on line ℓ_0
- 16 : $P_{19} = (15, 1, 0, 0)$ lies on line ℓ_0
- 17 : $P_{20} = (16, 1, 0, 0)$ lies on line ℓ_0
- 18 : $P_{21} = (17, 1, 0, 0)$ lies on line ℓ_0
- 19 : $P_{22} = (18, 1, 0, 0)$ lies on line ℓ_0
- 20 : $P_{23} = (19, 1, 0, 0)$ lies on line ℓ_0
- 21 : $P_{24} = (20, 1, 0, 0)$ lies on line ℓ_0

- 22 : $P_{25} = (21, 1, 0, 0)$ lies on line ℓ_0
- 23 : $P_{26} = (22, 1, 0, 0)$ lies on line ℓ_0
- 24 : $P_{27} = (23, 1, 0, 0)$ lies on line ℓ_0
- 25 : $P_{28} = (24, 1, 0, 0)$ lies on line ℓ_0
- 26 : $P_{29} = (25, 1, 0, 0)$ lies on line ℓ_0
- 27 : $P_{30} = (26, 1, 0, 0)$ lies on line ℓ_0
- 28 : $P_{31} = (27, 1, 0, 0)$ lies on line ℓ_0
- 29 : $P_{32} = (28, 1, 0, 0)$ lies on line ℓ_0
- 30 : $P_{33} = (29, 1, 0, 0)$ lies on line ℓ_0
- 31 : $P_{34} = (30, 1, 0, 0)$ lies on line ℓ_0
- 32 : $P_{35} = (31, 1, 0, 0)$ lies on line ℓ_0
- 33 : $P_{2083} = (1, 0, 1, 1)$ lies on line ℓ_3
- 34 : $P_{2145} = (0, 2, 1, 1)$ lies on line ℓ_1
- 35 : $P_{2148} = (3, 2, 1, 1)$ lies on line ℓ_3
- 36 : $P_{2177} = (0, 3, 1, 1)$ lies on line ℓ_1
- 37 : $P_{2179} = (2, 3, 1, 1)$ lies on line ℓ_3
- 38 : $P_{2209} = (0, 4, 1, 1)$ lies on line ℓ_1
- 39 : $P_{2214} = (5, 4, 1, 1)$ lies on line ℓ_3
- 40 : $P_{2241} = (0, 5, 1, 1)$ lies on line ℓ_1
- 41 : $P_{2245} = (4, 5, 1, 1)$ lies on line ℓ_3
- 42 : $P_{2273} = (0, 6, 1, 1)$ lies on line ℓ_1
- 43 : $P_{2280} = (7, 6, 1, 1)$ lies on line ℓ_3

- 44 : $P_{2305} = (0, 7, 1, 1)$ lies on line ℓ_1
 45 : $P_{2311} = (6, 7, 1, 1)$ lies on line ℓ_3
 46 : $P_{2337} = (0, 8, 1, 1)$ lies on line ℓ_1
 47 : $P_{2346} = (9, 8, 1, 1)$ lies on line ℓ_3
 48 : $P_{2369} = (0, 9, 1, 1)$ lies on line ℓ_1
 49 : $P_{2377} = (8, 9, 1, 1)$ lies on line ℓ_3
 50 : $P_{2401} = (0, 10, 1, 1)$ lies on line ℓ_1
 51 : $P_{2412} = (11, 10, 1, 1)$ lies on line ℓ_3
 52 : $P_{2433} = (0, 11, 1, 1)$ lies on line ℓ_1
 53 : $P_{2443} = (10, 11, 1, 1)$ lies on line ℓ_3
 54 : $P_{2465} = (0, 12, 1, 1)$ lies on line ℓ_1
 55 : $P_{2478} = (13, 12, 1, 1)$ lies on line ℓ_3
 56 : $P_{2497} = (0, 13, 1, 1)$ lies on line ℓ_1
 57 : $P_{2509} = (12, 13, 1, 1)$ lies on line ℓ_3
 58 : $P_{2529} = (0, 14, 1, 1)$ lies on line ℓ_1
 59 : $P_{2544} = (15, 14, 1, 1)$ lies on line ℓ_3
 60 : $P_{2561} = (0, 15, 1, 1)$ lies on line ℓ_1
 61 : $P_{2575} = (14, 15, 1, 1)$ lies on line ℓ_3
 62 : $P_{2593} = (0, 16, 1, 1)$ lies on line ℓ_1
 63 : $P_{2610} = (17, 16, 1, 1)$ lies on line ℓ_3
 64 : $P_{2625} = (0, 17, 1, 1)$ lies on line ℓ_1
 65 : $P_{2641} = (16, 17, 1, 1)$ lies on line ℓ_3
 66 : $P_{2657} = (0, 18, 1, 1)$ lies on line ℓ_1
 67 : $P_{2676} = (19, 18, 1, 1)$ lies on line ℓ_3
 68 : $P_{2689} = (0, 19, 1, 1)$ lies on line ℓ_1
 69 : $P_{2707} = (18, 19, 1, 1)$ lies on line ℓ_3
 70 : $P_{2721} = (0, 20, 1, 1)$ lies on line ℓ_1
 71 : $P_{2742} = (21, 20, 1, 1)$ lies on line ℓ_3
 72 : $P_{2753} = (0, 21, 1, 1)$ lies on line ℓ_1
 73 : $P_{2773} = (20, 21, 1, 1)$ lies on line ℓ_3
 74 : $P_{2785} = (0, 22, 1, 1)$ lies on line ℓ_1
 75 : $P_{2808} = (23, 22, 1, 1)$ lies on line ℓ_3
 76 : $P_{2817} = (0, 23, 1, 1)$ lies on line ℓ_1
 77 : $P_{2839} = (22, 23, 1, 1)$ lies on line ℓ_3
 78 : $P_{2849} = (0, 24, 1, 1)$ lies on line ℓ_1
 79 : $P_{2874} = (25, 24, 1, 1)$ lies on line ℓ_3
 80 : $P_{2881} = (0, 25, 1, 1)$ lies on line ℓ_1
 81 : $P_{2905} = (24, 25, 1, 1)$ lies on line ℓ_3
 82 : $P_{2913} = (0, 26, 1, 1)$ lies on line ℓ_1
 83 : $P_{2940} = (27, 26, 1, 1)$ lies on line ℓ_3
 84 : $P_{2945} = (0, 27, 1, 1)$ lies on line ℓ_1
 85 : $P_{2971} = (26, 27, 1, 1)$ lies on line ℓ_3
 86 : $P_{2977} = (0, 28, 1, 1)$ lies on line ℓ_1
 87 : $P_{3006} = (29, 28, 1, 1)$ lies on line ℓ_3
 88 : $P_{3009} = (0, 29, 1, 1)$ lies on line ℓ_1
 89 : $P_{3037} = (28, 29, 1, 1)$ lies on line ℓ_3
 90 : $P_{3041} = (0, 30, 1, 1)$ lies on line ℓ_1
 91 : $P_{3072} = (31, 30, 1, 1)$ lies on line ℓ_3
 92 : $P_{3073} = (0, 31, 1, 1)$ lies on line ℓ_1
 93 : $P_{3103} = (30, 31, 1, 1)$ lies on line ℓ_3
 94 : $P_{3105} = (0, 0, 2, 1)$ lies on line ℓ_2
 95 : $P_{4129} = (0, 0, 3, 1)$ lies on line ℓ_2
 96 : $P_{5153} = (0, 0, 4, 1)$ lies on line ℓ_2
 97 : $P_{6177} = (0, 0, 5, 1)$ lies on line ℓ_2
 98 : $P_{7201} = (0, 0, 6, 1)$ lies on line ℓ_2
 99 : $P_{8225} = (0, 0, 7, 1)$ lies on line ℓ_2
 100 : $P_{9249} = (0, 0, 8, 1)$ lies on line ℓ_2
 101 : $P_{10273} = (0, 0, 9, 1)$ lies on line ℓ_2
 102 : $P_{11297} = (0, 0, 10, 1)$ lies on line ℓ_2
 103 : $P_{12321} = (0, 0, 11, 1)$ lies on line ℓ_2
 104 : $P_{13345} = (0, 0, 12, 1)$ lies on line ℓ_2
 105 : $P_{14369} = (0, 0, 13, 1)$ lies on line ℓ_2
 106 : $P_{15393} = (0, 0, 14, 1)$ lies on line ℓ_2
 107 : $P_{16417} = (0, 0, 15, 1)$ lies on line ℓ_2
 108 : $P_{17441} = (0, 0, 16, 1)$ lies on line ℓ_2
 109 : $P_{18465} = (0, 0, 17, 1)$ lies on line ℓ_2
 110 : $P_{19489} = (0, 0, 18, 1)$ lies on line ℓ_2
 111 : $P_{20513} = (0, 0, 19, 1)$ lies on line ℓ_2
 112 : $P_{21537} = (0, 0, 20, 1)$ lies on line ℓ_2
 113 : $P_{22561} = (0, 0, 21, 1)$ lies on line ℓ_2
 114 : $P_{23585} = (0, 0, 22, 1)$ lies on line ℓ_2
 115 : $P_{24609} = (0, 0, 23, 1)$ lies on line ℓ_2
 116 : $P_{25633} = (0, 0, 24, 1)$ lies on line ℓ_2
 117 : $P_{26657} = (0, 0, 25, 1)$ lies on line ℓ_2
 118 : $P_{27681} = (0, 0, 26, 1)$ lies on line ℓ_2
 119 : $P_{28705} = (0, 0, 27, 1)$ lies on line ℓ_2
 120 : $P_{29729} = (0, 0, 28, 1)$ lies on line ℓ_2
 121 : $P_{30753} = (0, 0, 29, 1)$ lies on line ℓ_2
 122 : $P_{31777} = (0, 0, 30, 1)$ lies on line ℓ_2
 123 : $P_{32801} = (0, 0, 31, 1)$ lies on line ℓ_2

The single points on the surface are:

Points on surface but on no line

The surface has 961 points not on any line:

The points on the surface but not on lines are:

- 0 : $P_{1091} = (1, 1, 0, 1)$
 1 : $P_{1126} = (4, 2, 0, 1)$
 2 : $P_{1159} = (5, 3, 0, 1)$
 3 : $P_{1202} = (16, 4, 0, 1)$
 4 : $P_{1235} = (17, 5, 0, 1)$
 5 : $P_{1270} = (20, 6, 0, 1)$

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| 6 : $P_{1303} = (21, 7, 0, 1)$ | 60 : $P_{4041} = (8, 29, 2, 1)$ |
| 7 : $P_{1324} = (10, 8, 0, 1)$ | 61 : $P_{4070} = (5, 30, 2, 1)$ |
| 8 : $P_{1357} = (11, 9, 0, 1)$ | 62 : $P_{4074} = (9, 30, 2, 1)$ |
| 9 : $P_{1392} = (14, 10, 0, 1)$ | 63 : $P_{4157} = (28, 0, 3, 1)$ |
| 10 : $P_{1425} = (15, 11, 0, 1)$ | 64 : $P_{4207} = (14, 2, 3, 1)$ |
| 11 : $P_{1468} = (26, 12, 0, 1)$ | 65 : $P_{4209} = (16, 2, 3, 1)$ |
| 12 : $P_{1501} = (27, 13, 0, 1)$ | 66 : $P_{4272} = (15, 4, 3, 1)$ |
| 13 : $P_{1536} = (30, 14, 0, 1)$ | 67 : $P_{4280} = (23, 4, 3, 1)$ |
| 14 : $P_{1569} = (31, 15, 0, 1)$ | 68 : $P_{4366} = (13, 7, 3, 1)$ |
| 15 : $P_{1583} = (13, 16, 0, 1)$ | 69 : $P_{4375} = (22, 7, 3, 1)$ |
| 16 : $P_{1614} = (12, 17, 0, 1)$ | 70 : $P_{4424} = (7, 9, 3, 1)$ |
| 17 : $P_{1643} = (9, 18, 0, 1)$ | 71 : $P_{4435} = (18, 9, 3, 1)$ |
| 18 : $P_{1674} = (8, 19, 0, 1)$ | 72 : $P_{4450} = (1, 10, 3, 1)$ |
| 19 : $P_{1727} = (29, 20, 0, 1)$ | 73 : $P_{4472} = (23, 10, 3, 1)$ |
| 20 : $P_{1758} = (28, 21, 0, 1)$ | 74 : $P_{4495} = (14, 11, 3, 1)$ |
| 21 : $P_{1787} = (25, 22, 0, 1)$ | 75 : $P_{4506} = (25, 11, 3, 1)$ |
| 22 : $P_{1818} = (24, 23, 0, 1)$ | 76 : $P_{4522} = (9, 12, 3, 1)$ |
| 23 : $P_{1833} = (7, 24, 0, 1)$ | 77 : $P_{4538} = (25, 12, 3, 1)$ |
| 24 : $P_{1864} = (6, 25, 0, 1)$ | 78 : $P_{4723} = (18, 18, 3, 1)$ |
| 25 : $P_{1893} = (3, 26, 0, 1)$ | 79 : $P_{4733} = (28, 18, 3, 1)$ |
| 26 : $P_{1924} = (2, 27, 0, 1)$ | 80 : $P_{4743} = (6, 19, 3, 1)$ |
| 27 : $P_{1977} = (23, 28, 0, 1)$ | 81 : $P_{4746} = (9, 19, 3, 1)$ |
| 28 : $P_{2008} = (22, 29, 0, 1)$ | 82 : $P_{4839} = (6, 22, 3, 1)$ |
| 29 : $P_{2037} = (19, 30, 0, 1)$ | 83 : $P_{4845} = (12, 22, 3, 1)$ |
| 30 : $P_{2068} = (18, 31, 0, 1)$ | 84 : $P_{4930} = (1, 25, 3, 1)$ |
| 31 : $P_{3123} = (18, 0, 2, 1)$ | 85 : $P_{4933} = (4, 25, 3, 1)$ |
| 32 : $P_{3148} = (11, 1, 2, 1)$ | 86 : $P_{4977} = (16, 26, 3, 1)$ |
| 33 : $P_{3161} = (24, 1, 2, 1)$ | 87 : $P_{4983} = (22, 26, 3, 1)$ |
| 34 : $P_{3211} = (10, 3, 2, 1)$ | 88 : $P_{5037} = (12, 28, 3, 1)$ |
| 35 : $P_{3228} = (27, 3, 2, 1)$ | 89 : $P_{5102} = (13, 30, 3, 1)$ |
| 36 : $P_{3240} = (7, 4, 2, 1)$ | 90 : $P_{5104} = (15, 30, 3, 1)$ |
| 37 : $P_{3250} = (17, 4, 2, 1)$ | 91 : $P_{5125} = (4, 31, 3, 1)$ |
| 38 : $P_{3561} = (8, 14, 2, 1)$ | 92 : $P_{5128} = (7, 31, 3, 1)$ |
| 39 : $P_{3573} = (20, 14, 2, 1)$ | 93 : $P_{5162} = (9, 0, 4, 1)$ |
| 40 : $P_{3595} = (10, 15, 2, 1)$ | 94 : $P_{5192} = (7, 1, 4, 1)$ |
| 41 : $P_{3608} = (23, 15, 2, 1)$ | 95 : $P_{5200} = (15, 1, 4, 1)$ |
| 42 : $P_{3626} = (9, 16, 2, 1)$ | 96 : $P_{5255} = (6, 3, 4, 1)$ |
| 43 : $P_{3628} = (11, 16, 2, 1)$ | 97 : $P_{5261} = (12, 3, 4, 1)$ |
| 44 : $P_{3673} = (24, 17, 2, 1)$ | 98 : $P_{5315} = (2, 5, 4, 1)$ |
| 45 : $P_{3676} = (27, 17, 2, 1)$ | 99 : $P_{5327} = (14, 5, 4, 1)$ |
| 46 : $P_{3696} = (15, 18, 2, 1)$ | 100 : $P_{5394} = (17, 7, 4, 1)$ |
| 47 : $P_{3793} = (16, 21, 2, 1)$ | 101 : $P_{5408} = (31, 7, 4, 1)$ |
| 48 : $P_{3800} = (23, 21, 2, 1)$ | 102 : $P_{5472} = (31, 9, 4, 1)$ |
| 49 : $P_{3825} = (16, 22, 2, 1)$ | 103 : $P_{5539} = (2, 12, 4, 1)$ |
| 50 : $P_{3829} = (20, 22, 2, 1)$ | 104 : $P_{5544} = (7, 12, 4, 1)$ |
| 51 : $P_{3866} = (25, 23, 2, 1)$ | 105 : $P_{5580} = (11, 13, 4, 1)$ |
| 52 : $P_{3869} = (28, 23, 2, 1)$ | 106 : $P_{5584} = (15, 13, 4, 1)$ |
| 53 : $P_{3878} = (5, 24, 2, 1)$ | 107 : $P_{5677} = (12, 16, 4, 1)$ |
| 54 : $P_{3888} = (15, 24, 2, 1)$ | 108 : $P_{5686} = (21, 16, 4, 1)$ |
| 55 : $P_{3954} = (17, 26, 2, 1)$ | 109 : $P_{5772} = (11, 19, 4, 1)$ |
| 56 : $P_{3962} = (25, 26, 2, 1)$ | 110 : $P_{5778} = (17, 19, 4, 1)$ |
| 57 : $P_{4019} = (18, 28, 2, 1)$ | 111 : $P_{5867} = (10, 22, 4, 1)$ |
| 58 : $P_{4029} = (28, 28, 2, 1)$ | 112 : $P_{5878} = (21, 22, 4, 1)$ |
| 59 : $P_{4040} = (7, 29, 2, 1)$ | 113 : $P_{5898} = (9, 23, 4, 1)$ |

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| 114 : $P_{5912} = (23, 23, 4, 1)$ | 168 : $P_{7686} = (5, 15, 6, 1)$ |
| 115 : $P_{5927} = (6, 24, 4, 1)$ | 169 : $P_{7721} = (8, 16, 6, 1)$ |
| 116 : $P_{5944} = (23, 24, 4, 1)$ | 170 : $P_{7735} = (22, 16, 6, 1)$ |
| 117 : $P_{5966} = (13, 25, 4, 1)$ | 171 : $P_{7814} = (5, 19, 6, 1)$ |
| 118 : $P_{5982} = (29, 25, 4, 1)$ | 172 : $P_{7833} = (24, 19, 6, 1)$ |
| 119 : $P_{6062} = (13, 28, 4, 1)$ | 173 : $P_{7852} = (11, 20, 6, 1)$ |
| 120 : $P_{6073} = (24, 28, 4, 1)$ | 174 : $P_{7858} = (17, 20, 6, 1)$ |
| 121 : $P_{6123} = (10, 30, 4, 1)$ | 175 : $P_{7886} = (13, 21, 6, 1)$ |
| 122 : $P_{6142} = (29, 30, 4, 1)$ | 176 : $P_{7895} = (22, 21, 6, 1)$ |
| 123 : $P_{6159} = (14, 31, 4, 1)$ | 177 : $P_{7945} = (8, 23, 6, 1)$ |
| 124 : $P_{6169} = (24, 31, 4, 1)$ | 178 : $P_{7954} = (17, 23, 6, 1)$ |
| 125 : $P_{6200} = (23, 0, 5, 1)$ | 179 : $P_{8045} = (12, 26, 6, 1)$ |
| 126 : $P_{6286} = (13, 3, 5, 1)$ | 180 : $P_{8057} = (24, 26, 6, 1)$ |
| 127 : $P_{6298} = (25, 3, 5, 1)$ | 181 : $P_{8165} = (4, 30, 6, 1)$ |
| 128 : $P_{6318} = (13, 4, 5, 1)$ | 182 : $P_{8181} = (20, 30, 6, 1)$ |
| 129 : $P_{6335} = (30, 4, 5, 1)$ | 183 : $P_{8203} = (10, 31, 6, 1)$ |
| 130 : $P_{6370} = (1, 6, 5, 1)$ | 184 : $P_{8220} = (27, 31, 6, 1)$ |
| 131 : $P_{6385} = (16, 6, 5, 1)$ | 185 : $P_{8237} = (12, 0, 7, 1)$ |
| 132 : $P_{6444} = (11, 8, 5, 1)$ | 186 : $P_{8262} = (5, 1, 7, 1)$ |
| 133 : $P_{6453} = (20, 8, 5, 1)$ | 187 : $P_{8265} = (8, 1, 7, 1)$ |
| 134 : $P_{6474} = (9, 9, 5, 1)$ | 188 : $P_{8339} = (18, 3, 7, 1)$ |
| 135 : $P_{6488} = (23, 9, 5, 1)$ | 189 : $P_{8350} = (29, 3, 7, 1)$ |
| 136 : $P_{6538} = (9, 11, 5, 1)$ | 190 : $P_{8451} = (2, 7, 7, 1)$ |
| 137 : $P_{6550} = (21, 11, 5, 1)$ | 191 : $P_{8458} = (9, 7, 7, 1)$ |
| 138 : $P_{6626} = (1, 14, 5, 1)$ | 192 : $P_{8537} = (24, 9, 7, 1)$ |
| 139 : $P_{6649} = (24, 14, 5, 1)$ | 193 : $P_{8542} = (29, 9, 7, 1)$ |
| 140 : $P_{6663} = (6, 15, 5, 1)$ | 194 : $P_{8639} = (30, 12, 7, 1)$ |
| 141 : $P_{6687} = (30, 15, 5, 1)$ | 195 : $P_{8685} = (12, 14, 7, 1)$ |
| 142 : $P_{6713} = (24, 16, 5, 1)$ | 196 : $P_{8687} = (14, 14, 7, 1)$ |
| 143 : $P_{6720} = (31, 16, 5, 1)$ | 197 : $P_{8898} = (1, 21, 7, 1)$ |
| 144 : $P_{6769} = (16, 18, 5, 1)$ | 198 : $P_{8921} = (24, 21, 7, 1)$ |
| 145 : $P_{6774} = (21, 18, 5, 1)$ | 199 : $P_{8937} = (8, 22, 7, 1)$ |
| 146 : $P_{6812} = (27, 19, 5, 1)$ | 200 : $P_{8947} = (18, 22, 7, 1)$ |
| 147 : $P_{6816} = (31, 19, 5, 1)$ | 201 : $P_{8966} = (5, 23, 7, 1)$ |
| 148 : $P_{6874} = (25, 21, 5, 1)$ | 202 : $P_{8991} = (30, 23, 7, 1)$ |
| 149 : $P_{6876} = (27, 21, 5, 1)$ | 203 : $P_{9027} = (2, 25, 7, 1)$ |
| 150 : $P_{6939} = (26, 23, 5, 1)$ | 204 : $P_{9048} = (23, 25, 7, 1)$ |
| 151 : $P_{6997} = (20, 25, 5, 1)$ | 205 : $P_{9058} = (1, 26, 7, 1)$ |
| 152 : $P_{7003} = (26, 25, 5, 1)$ | 206 : $P_{9080} = (23, 26, 7, 1)$ |
| 153 : $P_{7015} = (6, 26, 5, 1)$ | 207 : $P_{9100} = (11, 27, 7, 1)$ |
| 154 : $P_{7020} = (11, 26, 5, 1)$ | 208 : $P_{9117} = (28, 27, 7, 1)$ |
| 155 : $P_{7215} = (14, 0, 6, 1)$ | 209 : $P_{9164} = (11, 29, 7, 1)$ |
| 156 : $P_{7253} = (20, 1, 6, 1)$ | 210 : $P_{9179} = (26, 29, 7, 1)$ |
| 157 : $P_{7260} = (27, 1, 6, 1)$ | 211 : $P_{9199} = (14, 30, 7, 1)$ |
| 158 : $P_{7271} = (6, 2, 6, 1)$ | 212 : $P_{9213} = (28, 30, 7, 1)$ |
| 159 : $P_{7275} = (10, 2, 6, 1)$ | 213 : $P_{9226} = (9, 31, 7, 1)$ |
| 160 : $P_{7330} = (1, 4, 6, 1)$ | 214 : $P_{9243} = (26, 31, 7, 1)$ |
| 161 : $P_{7340} = (11, 4, 6, 1)$ | 215 : $P_{9271} = (22, 0, 8, 1)$ |
| 162 : $P_{7490} = (1, 9, 6, 1)$ | 216 : $P_{9320} = (7, 2, 8, 1)$ |
| 163 : $P_{7495} = (6, 9, 6, 1)$ | 217 : $P_{9332} = (19, 2, 8, 1)$ |
| 164 : $P_{7597} = (12, 12, 6, 1)$ | 218 : $P_{9381} = (4, 4, 8, 1)$ |
| 165 : $P_{7599} = (14, 12, 6, 1)$ | 219 : $P_{9399} = (22, 4, 8, 1)$ |
| 166 : $P_{7662} = (13, 14, 6, 1)$ | 220 : $P_{9424} = (15, 5, 8, 1)$ |
| 167 : $P_{7685} = (4, 15, 6, 1)$ | 221 : $P_{9437} = (28, 5, 8, 1)$ |

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| 223 : $P_{9469} = (28, 6, 8, 1)$ | 277 : $P_{11235} = (2, 30, 9, 1)$ |
| 224 : $P_{9476} = (3, 7, 8, 1)$ | 278 : $P_{11257} = (24, 30, 9, 1)$ |
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| 226 : $P_{9508} = (3, 8, 8, 1)$ | 280 : $P_{11397} = (4, 3, 10, 1)$ |
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| 228 : $P_{9551} = (14, 9, 8, 1)$ | 282 : $P_{11433} = (8, 4, 10, 1)$ |
| 229 : $P_{9554} = (17, 9, 8, 1)$ | 283 : $P_{11446} = (21, 4, 10, 1)$ |
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| 231 : $P_{9726} = (29, 14, 8, 1)$ | 285 : $P_{11510} = (21, 6, 10, 1)$ |
| 232 : $P_{9763} = (2, 16, 8, 1)$ | 286 : $P_{11567} = (14, 8, 10, 1)$ |
| 233 : $P_{9765} = (4, 16, 8, 1)$ | 287 : $P_{11584} = (31, 8, 10, 1)$ |
| 234 : $P_{9867} = (10, 19, 8, 1)$ | 288 : $P_{11622} = (5, 10, 10, 1)$ |
| 235 : $P_{9872} = (15, 19, 8, 1)$ | 289 : $P_{11639} = (22, 10, 10, 1)$ |
| 236 : $P_{9897} = (8, 20, 8, 1)$ | 290 : $P_{11661} = (12, 11, 10, 1)$ |
| 237 : $P_{9899} = (10, 20, 8, 1)$ | 291 : $P_{11679} = (30, 11, 10, 1)$ |
| 238 : $P_{9970} = (17, 22, 8, 1)$ | 292 : $P_{11717} = (4, 13, 10, 1)$ |
| 239 : $P_{10003} = (18, 23, 8, 1)$ | 293 : $P_{11729} = (16, 13, 10, 1)$ |
| 240 : $P_{10004} = (19, 23, 8, 1)$ | 294 : $P_{11825} = (16, 16, 10, 1)$ |
| 241 : $P_{10056} = (7, 25, 8, 1)$ | 295 : $P_{11834} = (25, 16, 10, 1)$ |
| 242 : $P_{10057} = (8, 25, 8, 1)$ | 296 : $P_{11864} = (23, 17, 10, 1)$ |
| 243 : $P_{10083} = (2, 26, 8, 1)$ | 297 : $P_{11872} = (31, 17, 10, 1)$ |
| 244 : $P_{10095} = (14, 26, 8, 1)$ | 298 : $P_{11890} = (17, 18, 10, 1)$ |
| 245 : $P_{10246} = (5, 31, 8, 1)$ | 299 : $P_{11899} = (26, 18, 10, 1)$ |
| 246 : $P_{10253} = (12, 31, 8, 1)$ | 300 : $P_{11960} = (23, 20, 10, 1)$ |
| 247 : $P_{10277} = (4, 0, 9, 1)$ | 301 : $P_{11963} = (26, 20, 10, 1)$ |
| 248 : $P_{10378} = (9, 3, 9, 1)$ | 302 : $P_{11974} = (5, 21, 10, 1)$ |
| 249 : $P_{10383} = (14, 3, 9, 1)$ | 303 : $P_{11978} = (9, 21, 10, 1)$ |
| 250 : $P_{10413} = (12, 4, 9, 1)$ | 304 : $P_{12073} = (8, 24, 10, 1)$ |
| 251 : $P_{10457} = (24, 5, 9, 1)$ | 305 : $P_{12074} = (9, 24, 10, 1)$ |
| 252 : $P_{10458} = (25, 5, 9, 1)$ | 306 : $P_{12109} = (12, 25, 10, 1)$ |
| 253 : $P_{10552} = (23, 8, 9, 1)$ | 307 : $P_{12235} = (10, 29, 10, 1)$ |
| 254 : $P_{10556} = (27, 8, 9, 1)$ | 308 : $P_{12239} = (14, 29, 10, 1)$ |
| 255 : $P_{10581} = (20, 9, 9, 1)$ | 309 : $P_{12274} = (17, 30, 10, 1)$ |
| 256 : $P_{10586} = (25, 9, 9, 1)$ | 310 : $P_{12279} = (22, 30, 10, 1)$ |
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| 258 : $P_{10668} = (11, 12, 9, 1)$ | 312 : $P_{12393} = (8, 2, 11, 1)$ |
| 259 : $P_{10709} = (20, 13, 9, 1)$ | 313 : $P_{12411} = (26, 2, 11, 1)$ |
| 260 : $P_{10718} = (29, 13, 9, 1)$ | 314 : $P_{12492} = (11, 5, 11, 1)$ |
| 261 : $P_{10769} = (16, 15, 9, 1)$ | 315 : $P_{12511} = (30, 5, 11, 1)$ |
| 262 : $P_{10780} = (27, 15, 9, 1)$ | 316 : $P_{12528} = (15, 6, 11, 1)$ |
| 263 : $P_{10788} = (3, 16, 9, 1)$ | 317 : $P_{12538} = (25, 6, 11, 1)$ |
| 264 : $P_{10808} = (23, 16, 9, 1)$ | 318 : $P_{12643} = (2, 10, 11, 1)$ |
| 265 : $P_{10947} = (2, 21, 9, 1)$ | 319 : $P_{12665} = (24, 10, 11, 1)$ |
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| 268 : $P_{10999} = (22, 22, 9, 1)$ | 322 : $P_{12742} = (5, 13, 11, 1)$ |
| 269 : $P_{11023} = (14, 23, 9, 1)$ | 323 : $P_{12761} = (24, 13, 11, 1)$ |
| 270 : $P_{11038} = (29, 23, 9, 1)$ | 324 : $P_{12859} = (26, 16, 11, 1)$ |
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| 272 : $P_{11095} = (22, 25, 9, 1)$ | 326 : $P_{12872} = (7, 17, 11, 1)$ |
| 273 : $P_{11149} = (12, 27, 9, 1)$ | 327 : $P_{12933} = (4, 19, 11, 1)$ |
| 274 : $P_{11156} = (19, 27, 9, 1)$ | 328 : $P_{12936} = (7, 19, 11, 1)$ |
| 275 : $P_{11210} = (9, 29, 9, 1)$ | 329 : $P_{13036} = (11, 22, 11, 1)$ |

330 : $P_{13038} = (13, 22, 11, 1)$
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 344 : $P_{13534} = (29, 5, 12, 1)$
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 581 : $P_{21147} = (26, 19, 19, 1)$
 582 : $P_{21236} = (19, 22, 19, 1)$
 583 : $P_{21241} = (24, 22, 19, 1)$
 584 : $P_{21307} = (26, 24, 19, 1)$
 585 : $P_{21312} = (31, 24, 19, 1)$
 586 : $P_{21330} = (17, 25, 19, 1)$
 587 : $P_{21334} = (21, 25, 19, 1)$
 588 : $P_{21401} = (24, 27, 19, 1)$
 589 : $P_{21407} = (30, 27, 19, 1)$
 590 : $P_{21439} = (30, 28, 19, 1)$
 591 : $P_{21440} = (31, 28, 19, 1)$
 592 : $P_{21446} = (5, 29, 19, 1)$
 593 : $P_{21481} = (8, 30, 19, 1)$
 594 : $P_{21484} = (11, 30, 19, 1)$
 595 : $P_{21567} = (30, 0, 20, 1)$
 596 : $P_{21571} = (2, 1, 20, 1)$
 597 : $P_{21598} = (29, 1, 20, 1)$
 598 : $P_{21640} = (7, 3, 20, 1)$
 599 : $P_{21659} = (26, 3, 20, 1)$

600 : $P_{21679} = (14, 4, 20, 1)$
 601 : $P_{21685} = (20, 4, 20, 1)$
 602 : $P_{21800} = (7, 8, 20, 1)$
 603 : $P_{21810} = (17, 8, 20, 1)$
 604 : $P_{21890} = (1, 11, 20, 1)$
 605 : $P_{21909} = (20, 11, 20, 1)$
 606 : $P_{21963} = (10, 13, 20, 1)$
 607 : $P_{21978} = (25, 13, 20, 1)$
 608 : $P_{22050} = (1, 16, 20, 1)$
 609 : $P_{22064} = (15, 16, 20, 1)$
 610 : $P_{22115} = (2, 18, 20, 1)$
 611 : $P_{22127} = (14, 18, 20, 1)$
 612 : $P_{22161} = (16, 19, 20, 1)$
 613 : $P_{22174} = (29, 19, 20, 1)$
 614 : $P_{22315} = (10, 24, 20, 1)$
 615 : $P_{22317} = (12, 24, 20, 1)$
 616 : $P_{22395} = (26, 26, 20, 1)$
 617 : $P_{22399} = (30, 26, 20, 1)$
 618 : $P_{22458} = (25, 28, 20, 1)$
 619 : $P_{22460} = (27, 28, 20, 1)$
 620 : $P_{22477} = (12, 29, 20, 1)$
 621 : $P_{22480} = (15, 29, 20, 1)$
 622 : $P_{22524} = (27, 30, 20, 1)$
 623 : $P_{22545} = (16, 31, 20, 1)$
 624 : $P_{22546} = (17, 31, 20, 1)$
 625 : $P_{22587} = (26, 0, 21, 1)$
 626 : $P_{22603} = (10, 1, 21, 1)$
 627 : $P_{22610} = (17, 1, 21, 1)$
 628 : $P_{22640} = (15, 2, 21, 1)$
 629 : $P_{22648} = (23, 2, 21, 1)$
 630 : $P_{22658} = (1, 3, 21, 1)$
 631 : $P_{22681} = (24, 3, 21, 1)$
 632 : $P_{22730} = (9, 5, 21, 1)$
 633 : $P_{22743} = (22, 5, 21, 1)$
 634 : $P_{22757} = (4, 6, 21, 1)$
 635 : $P_{22777} = (24, 6, 21, 1)$
 636 : $P_{22920} = (7, 11, 21, 1)$
 637 : $P_{22935} = (22, 11, 21, 1)$
 638 : $P_{23140} = (3, 18, 21, 1)$
 639 : $P_{23148} = (11, 18, 21, 1)$
 640 : $P_{23192} = (23, 19, 21, 1)$
 641 : $P_{23199} = (30, 19, 21, 1)$
 642 : $P_{23237} = (4, 21, 21, 1)$
 643 : $P_{23244} = (11, 21, 21, 1)$
 644 : $P_{23268} = (3, 22, 21, 1)$
 645 : $P_{23280} = (15, 22, 21, 1)$
 646 : $P_{23346} = (17, 24, 21, 1)$
 647 : $P_{23348} = (19, 24, 21, 1)$
 648 : $P_{23370} = (9, 25, 21, 1)$
 649 : $P_{23371} = (10, 25, 21, 1)$
 650 : $P_{23412} = (19, 26, 21, 1)$
 651 : $P_{23458} = (1, 28, 21, 1)$
 652 : $P_{23464} = (7, 28, 21, 1)$
 653 : $P_{23547} = (26, 30, 21, 1)$

654 : $P_{23551} = (30, 30, 21, 1)$
 655 : $P_{23593} = (8, 0, 22, 1)$
 656 : $P_{23633} = (16, 1, 22, 1)$
 657 : $P_{23642} = (25, 1, 22, 1)$
 658 : $P_{23669} = (20, 2, 22, 1)$
 659 : $P_{23679} = (30, 2, 22, 1)$
 660 : $P_{23750} = (5, 5, 22, 1)$
 661 : $P_{23753} = (8, 5, 22, 1)$
 662 : $P_{23845} = (4, 8, 22, 1)$
 663 : $P_{23899} = (26, 9, 22, 1)$
 664 : $P_{23900} = (27, 9, 22, 1)$
 665 : $P_{23930} = (25, 10, 22, 1)$
 666 : $P_{23932} = (27, 10, 22, 1)$
 667 : $P_{23953} = (16, 11, 22, 1)$
 668 : $P_{23956} = (19, 11, 22, 1)$
 669 : $P_{24020} = (19, 13, 22, 1)$
 670 : $P_{24023} = (22, 13, 22, 1)$
 671 : $P_{24059} = (26, 14, 22, 1)$
 672 : $P_{24061} = (28, 14, 22, 1)$
 673 : $P_{24134} = (5, 17, 22, 1)$
 674 : $P_{24157} = (28, 17, 22, 1)$
 675 : $P_{24260} = (3, 21, 22, 1)$
 676 : $P_{24287} = (30, 21, 22, 1)$
 677 : $P_{24357} = (4, 24, 22, 1)$
 678 : $P_{24373} = (20, 24, 22, 1)$
 679 : $P_{24388} = (3, 25, 22, 1)$
 680 : $P_{24403} = (18, 25, 22, 1)$
 681 : $P_{24450} = (1, 27, 22, 1)$
 682 : $P_{24467} = (18, 27, 22, 1)$
 683 : $P_{24578} = (1, 31, 22, 1)$
 684 : $P_{24599} = (22, 31, 22, 1)$
 685 : $P_{24614} = (5, 0, 23, 1)$
 686 : $P_{24667} = (26, 1, 23, 1)$
 687 : $P_{24671} = (30, 1, 23, 1)$
 688 : $P_{24779} = (10, 5, 23, 1)$
 689 : $P_{24818} = (17, 6, 23, 1)$
 690 : $P_{24819} = (18, 6, 23, 1)$
 691 : $P_{24870} = (5, 8, 23, 1)$
 692 : $P_{24873} = (8, 8, 23, 1)$
 693 : $P_{24936} = (7, 10, 23, 1)$
 694 : $P_{24937} = (8, 10, 23, 1)$
 695 : $P_{24978} = (17, 11, 23, 1)$
 696 : $P_{24992} = (31, 11, 23, 1)$
 697 : $P_{24999} = (6, 12, 23, 1)$
 698 : $P_{25008} = (15, 12, 23, 1)$
 699 : $P_{25128} = (7, 16, 23, 1)$
 700 : $P_{25139} = (18, 16, 23, 1)$
 701 : $P_{25154} = (1, 17, 23, 1)$
 702 : $P_{25174} = (21, 17, 23, 1)$
 703 : $P_{25264} = (15, 20, 23, 1)$
 704 : $P_{25279} = (30, 20, 23, 1)$
 705 : $P_{25291} = (10, 21, 23, 1)$
 706 : $P_{25307} = (26, 21, 23, 1)$
 707 : $P_{25358} = (13, 23, 23, 1)$

708 : $P_{25376} = (31, 23, 23, 1)$
 709 : $P_{25378} = (1, 24, 23, 1)$
 710 : $P_{25405} = (28, 24, 23, 1)$
 711 : $P_{25550} = (13, 29, 23, 1)$
 712 : $P_{25558} = (21, 29, 23, 1)$
 713 : $P_{25607} = (6, 31, 23, 1)$
 714 : $P_{25629} = (28, 31, 23, 1)$
 715 : $P_{25650} = (17, 0, 24, 1)$
 716 : $P_{25668} = (3, 1, 24, 1)$
 717 : $P_{25684} = (19, 1, 24, 1)$
 718 : $P_{25858} = (1, 7, 24, 1)$
 719 : $P_{25880} = (23, 7, 24, 1)$
 720 : $P_{25963} = (10, 10, 24, 1)$
 721 : $P_{25970} = (17, 10, 24, 1)$
 722 : $P_{26018} = (1, 12, 24, 1)$
 723 : $P_{26045} = (28, 12, 24, 1)$
 724 : $P_{26058} = (9, 13, 24, 1)$
 725 : $P_{26070} = (21, 13, 24, 1)$
 726 : $P_{26091} = (10, 14, 24, 1)$
 727 : $P_{26102} = (21, 14, 24, 1)$
 728 : $P_{26125} = (12, 15, 24, 1)$
 729 : $P_{26131} = (18, 15, 24, 1)$
 730 : $P_{26191} = (14, 17, 24, 1)$
 731 : $P_{26229} = (20, 18, 24, 1)$
 732 : $P_{26232} = (23, 18, 24, 1)$
 733 : $P_{26282} = (9, 20, 24, 1)$
 734 : $P_{26285} = (12, 20, 24, 1)$
 735 : $P_{26364} = (27, 22, 24, 1)$
 736 : $P_{26365} = (28, 22, 24, 1)$
 737 : $P_{26419} = (18, 24, 24, 1)$
 738 : $P_{26428} = (27, 24, 24, 1)$
 739 : $P_{26485} = (20, 26, 24, 1)$
 740 : $P_{26496} = (31, 26, 24, 1)$
 741 : $P_{26532} = (3, 28, 24, 1)$
 742 : $P_{26543} = (14, 28, 24, 1)$
 743 : $P_{26580} = (19, 29, 24, 1)$
 744 : $P_{26592} = (31, 29, 24, 1)$
 745 : $P_{26667} = (10, 0, 25, 1)$
 746 : $P_{26695} = (6, 1, 25, 1)$
 747 : $P_{26702} = (13, 1, 25, 1)$
 748 : $P_{26722} = (1, 2, 25, 1)$
 749 : $P_{26730} = (9, 2, 25, 1)$
 750 : $P_{26804} = (19, 4, 25, 1)$
 751 : $P_{26814} = (29, 4, 25, 1)$
 752 : $P_{26854} = (5, 6, 25, 1)$
 753 : $P_{26858} = (9, 6, 25, 1)$
 754 : $P_{26897} = (16, 7, 25, 1)$
 755 : $P_{26910} = (29, 7, 25, 1)$
 756 : $P_{26993} = (16, 10, 25, 1)$
 757 : $P_{27011} = (2, 11, 25, 1)$
 758 : $P_{27012} = (3, 11, 25, 1)$
 759 : $P_{27058} = (17, 12, 25, 1)$
 760 : $P_{27064} = (23, 12, 25, 1)$
 761 : $P_{27107} = (2, 14, 25, 1)$

762 : $P_{27111} = (6, 14, 25, 1)$
 763 : $P_{27145} = (8, 15, 25, 1)$
 764 : $P_{27150} = (13, 15, 25, 1)$
 765 : $P_{27211} = (10, 17, 25, 1)$
 766 : $P_{27218} = (17, 17, 25, 1)$
 767 : $P_{27234} = (1, 18, 25, 1)$
 768 : $P_{27258} = (25, 18, 25, 1)$
 769 : $P_{27529} = (8, 27, 25, 1)$
 770 : $P_{27546} = (25, 27, 25, 1)$
 771 : $P_{27558} = (5, 28, 25, 1)$
 772 : $P_{27572} = (19, 28, 25, 1)$
 773 : $P_{27620} = (3, 30, 25, 1)$
 774 : $P_{27640} = (23, 30, 25, 1)$
 775 : $P_{27702} = (21, 0, 26, 1)$
 776 : $P_{27756} = (11, 2, 26, 1)$
 777 : $P_{27773} = (28, 2, 26, 1)$
 778 : $P_{27938} = (1, 8, 26, 1)$
 779 : $P_{27965} = (28, 8, 26, 1)$
 780 : $P_{27979} = (10, 9, 26, 1)$
 781 : $P_{27991} = (22, 9, 26, 1)$
 782 : $P_{28069} = (4, 12, 26, 1)$
 783 : $P_{28094} = (29, 12, 26, 1)$
 784 : $P_{28140} = (11, 14, 26, 1)$
 785 : $P_{28145} = (16, 14, 26, 1)$
 786 : $P_{28163} = (2, 15, 26, 1)$
 787 : $P_{28185} = (24, 15, 26, 1)$
 788 : $P_{28243} = (18, 17, 26, 1)$
 789 : $P_{28247} = (22, 17, 26, 1)$
 790 : $P_{28281} = (24, 18, 26, 1)$
 791 : $P_{28288} = (31, 18, 26, 1)$
 792 : $P_{28370} = (17, 21, 26, 1)$
 793 : $P_{28386} = (1, 22, 26, 1)$
 794 : $P_{28387} = (2, 22, 26, 1)$
 795 : $P_{28465} = (16, 24, 26, 1)$
 796 : $P_{28478} = (29, 24, 26, 1)$
 797 : $P_{28549} = (4, 27, 26, 1)$
 798 : $P_{28555} = (10, 27, 26, 1)$
 799 : $P_{28626} = (17, 29, 26, 1)$
 800 : $P_{28634} = (25, 29, 26, 1)$
 801 : $P_{28659} = (18, 30, 26, 1)$
 802 : $P_{28666} = (25, 30, 26, 1)$
 803 : $P_{28694} = (21, 31, 26, 1)$
 804 : $P_{28704} = (31, 31, 26, 1)$
 805 : $P_{28736} = (31, 0, 27, 1)$
 806 : $P_{28746} = (9, 1, 27, 1)$
 807 : $P_{28760} = (23, 1, 27, 1)$
 808 : $P_{28774} = (5, 2, 27, 1)$
 809 : $P_{28793} = (24, 2, 27, 1)$
 810 : $P_{28842} = (9, 4, 27, 1)$
 811 : $P_{28851} = (18, 4, 27, 1)$
 812 : $P_{28878} = (13, 5, 27, 1)$
 813 : $P_{28888} = (23, 5, 27, 1)$
 814 : $P_{28933} = (4, 7, 27, 1)$
 815 : $P_{28957} = (28, 7, 27, 1)$

816 : $P_{29031} = (6, 10, 27, 1)$
 817 : $P_{29044} = (19, 10, 27, 1)$
 818 : $P_{29065} = (8, 11, 27, 1)$
 819 : $P_{29085} = (28, 11, 27, 1)$
 820 : $P_{29094} = (5, 12, 27, 1)$
 821 : $P_{29111} = (22, 12, 27, 1)$
 822 : $P_{29156} = (3, 14, 27, 1)$
 823 : $P_{29171} = (18, 14, 27, 1)$
 824 : $P_{29364} = (19, 20, 27, 1)$
 825 : $P_{29369} = (24, 20, 27, 1)$
 826 : $P_{29398} = (21, 21, 27, 1)$
 827 : $P_{29408} = (31, 21, 27, 1)$
 828 : $P_{29444} = (3, 23, 27, 1)$
 829 : $P_{29452} = (11, 23, 27, 1)$
 830 : $P_{29545} = (8, 26, 27, 1)$
 831 : $P_{29550} = (13, 26, 27, 1)$
 832 : $P_{29622} = (21, 28, 27, 1)$
 833 : $P_{29623} = (22, 28, 27, 1)$
 834 : $P_{29637} = (4, 29, 27, 1)$
 835 : $P_{29639} = (6, 29, 27, 1)$
 836 : $P_{29708} = (11, 31, 27, 1)$
 837 : $P_{29732} = (3, 0, 28, 1)$
 838 : $P_{29773} = (12, 1, 28, 1)$
 839 : $P_{29775} = (14, 1, 28, 1)$
 840 : $P_{29833} = (8, 3, 28, 1)$
 841 : $P_{29881} = (24, 4, 28, 1)$
 842 : $P_{29888} = (31, 4, 28, 1)$
 843 : $P_{29890} = (1, 5, 28, 1)$
 844 : $P_{29896} = (7, 5, 28, 1)$
 845 : $P_{29932} = (11, 6, 28, 1)$
 846 : $P_{29935} = (14, 6, 28, 1)$
 847 : $P_{29961} = (8, 7, 28, 1)$
 848 : $P_{29965} = (12, 7, 28, 1)$
 849 : $P_{30004} = (19, 8, 28, 1)$
 850 : $P_{30009} = (24, 8, 28, 1)$
 851 : $P_{30022} = (5, 9, 28, 1)$
 852 : $P_{30032} = (15, 9, 28, 1)$
 853 : $P_{30230} = (21, 15, 28, 1)$
 854 : $P_{30234} = (25, 15, 28, 1)$
 855 : $P_{30284} = (11, 17, 28, 1)$
 856 : $P_{30298} = (25, 17, 28, 1)$
 857 : $P_{30340} = (3, 19, 28, 1)$
 858 : $P_{30356} = (19, 19, 28, 1)$
 859 : $P_{30376} = (7, 20, 28, 1)$
 860 : $P_{30385} = (16, 20, 28, 1)$
 861 : $P_{30466} = (1, 23, 28, 1)$
 862 : $P_{30486} = (21, 23, 28, 1)$
 863 : $P_{30534} = (5, 25, 28, 1)$
 864 : $P_{30560} = (31, 25, 28, 1)$
 865 : $P_{30640} = (15, 28, 28, 1)$
 866 : $P_{30641} = (16, 28, 28, 1)$
 867 : $P_{30772} = (19, 0, 29, 1)$
 868 : $P_{30789} = (4, 1, 29, 1)$
 869 : $P_{30807} = (22, 1, 29, 1)$

| | |
|-------------------------------------|-------------------------------------|
| 870 : $P_{30852} = (3, 3, 29, 1)$ | 916 : $P_{32528} = (15, 23, 30, 1)$ |
| 871 : $P_{30868} = (19, 3, 29, 1)$ | 917 : $P_{32596} = (19, 25, 30, 1)$ |
| 872 : $P_{30916} = (3, 5, 29, 1)$ | 918 : $P_{32607} = (30, 25, 30, 1)$ |
| 873 : $P_{30934} = (21, 5, 29, 1)$ | 919 : $P_{32616} = (7, 26, 30, 1)$ |
| 874 : $P_{30991} = (14, 7, 29, 1)$ | 920 : $P_{32618} = (9, 26, 30, 1)$ |
| 875 : $P_{31003} = (26, 7, 29, 1)$ | 921 : $P_{32661} = (20, 27, 30, 1)$ |
| 876 : $P_{31022} = (13, 8, 29, 1)$ | 922 : $P_{32668} = (27, 27, 30, 1)$ |
| 877 : $P_{31031} = (22, 8, 29, 1)$ | 923 : $P_{32728} = (23, 29, 30, 1)$ |
| 878 : $P_{31045} = (4, 9, 29, 1)$ | 924 : $P_{32735} = (30, 29, 30, 1)$ |
| 879 : $P_{31071} = (30, 9, 29, 1)$ | 925 : $P_{32743} = (6, 30, 30, 1)$ |
| 880 : $P_{31085} = (12, 10, 29, 1)$ | 926 : $P_{32749} = (12, 30, 30, 1)$ |
| 881 : $P_{31094} = (21, 10, 29, 1)$ | 927 : $P_{32772} = (3, 31, 30, 1)$ |
| 882 : $P_{31170} = (1, 13, 29, 1)$ | 928 : $P_{32777} = (8, 31, 30, 1)$ |
| 883 : $P_{31200} = (31, 13, 29, 1)$ | 929 : $P_{32828} = (27, 0, 31, 1)$ |
| 884 : $P_{31234} = (1, 15, 29, 1)$ | 930 : $P_{32877} = (12, 2, 31, 1)$ |
| 885 : $P_{31262} = (29, 15, 29, 1)$ | 931 : $P_{32886} = (21, 2, 31, 1)$ |
| 886 : $P_{31294} = (29, 16, 29, 1)$ | 932 : $P_{32935} = (6, 4, 31, 1)$ |
| 887 : $P_{31295} = (30, 16, 29, 1)$ | 933 : $P_{32954} = (25, 4, 31, 1)$ |
| 888 : $P_{31341} = (12, 18, 29, 1)$ | 934 : $P_{32973} = (12, 5, 31, 1)$ |
| 889 : $P_{31342} = (13, 18, 29, 1)$ | 935 : $P_{32979} = (18, 5, 31, 1)$ |
| 890 : $P_{31363} = (2, 19, 29, 1)$ | 936 : $P_{32995} = (2, 6, 31, 1)$ |
| 891 : $P_{31483} = (26, 22, 29, 1)$ | 937 : $P_{33024} = (31, 6, 31, 1)$ |
| 892 : $P_{31488} = (31, 22, 29, 1)$ | 938 : $P_{33091} = (2, 9, 31, 1)$ |
| 893 : $P_{31491} = (2, 23, 29, 1)$ | 939 : $P_{33105} = (16, 9, 31, 1)$ |
| 894 : $P_{31495} = (6, 23, 29, 1)$ | 940 : $P_{33134} = (13, 10, 31, 1)$ |
| 895 : $P_{31623} = (6, 27, 29, 1)$ | 941 : $P_{33149} = (28, 10, 31, 1)$ |
| 896 : $P_{31631} = (14, 27, 29, 1)$ | 942 : $P_{33193} = (8, 12, 31, 1)$ |
| 897 : $P_{31797} = (20, 0, 30, 1)$ | 943 : $P_{33216} = (31, 12, 31, 1)$ |
| 898 : $P_{31854} = (13, 2, 30, 1)$ | 944 : $P_{33318} = (5, 16, 31, 1)$ |
| 899 : $P_{31868} = (27, 2, 30, 1)$ | 945 : $P_{33327} = (14, 16, 31, 1)$ |
| 900 : $P_{32039} = (6, 8, 30, 1)$ | 946 : $P_{33461} = (20, 20, 31, 1)$ |
| 901 : $P_{32059} = (26, 8, 30, 1)$ | 947 : $P_{33468} = (27, 20, 31, 1)$ |
| 902 : $P_{32134} = (5, 11, 30, 1)$ | 948 : $P_{33479} = (6, 21, 31, 1)$ |
| 903 : $P_{32155} = (26, 11, 30, 1)$ | 949 : $P_{33481} = (8, 21, 31, 1)$ |
| 904 : $P_{32207} = (14, 13, 30, 1)$ | 950 : $P_{33582} = (13, 24, 31, 1)$ |
| 905 : $P_{32216} = (23, 13, 30, 1)$ | 951 : $P_{33583} = (14, 24, 31, 1)$ |
| 906 : $P_{32234} = (9, 14, 30, 1)$ | 952 : $P_{33661} = (28, 26, 31, 1)$ |
| 907 : $P_{32244} = (19, 14, 30, 1)$ | 953 : $P_{33662} = (29, 26, 31, 1)$ |
| 908 : $P_{32329} = (8, 17, 30, 1)$ | 954 : $P_{33670} = (5, 27, 31, 1)$ |
| 909 : $P_{32334} = (13, 17, 30, 1)$ | 955 : $P_{33747} = (18, 29, 31, 1)$ |
| 910 : $P_{32420} = (3, 20, 30, 1)$ | 956 : $P_{33749} = (20, 29, 31, 1)$ |
| 911 : $P_{32463} = (14, 21, 30, 1)$ | 957 : $P_{33777} = (16, 30, 31, 1)$ |
| 912 : $P_{32464} = (15, 21, 30, 1)$ | 958 : $P_{33782} = (21, 30, 31, 1)$ |
| 913 : $P_{32486} = (5, 22, 30, 1)$ | 959 : $P_{33818} = (25, 31, 31, 1)$ |
| 914 : $P_{32488} = (7, 22, 30, 1)$ | 960 : $P_{33822} = (29, 31, 31, 1)$ |
| 915 : $P_{32525} = (12, 23, 30, 1)$ | |

Line Intersection Graph

| | |
|---|---------|
| | 0 1 2 3 |
| 0 | 0 1 0 1 |
| 1 | 1 0 1 1 |
| 2 | 0 1 0 0 |
| 3 | 1 1 0 0 |

Neighbor sets in the line intersection graph:

Line 0 intersects

| | | |
|----------|----------|----------|
| Line | ℓ_1 | ℓ_3 |
| in point | P_1 | P_5 |

Line 1 intersects

| | | | |
|----------|----------|------------|------------|
| Line | ℓ_0 | ℓ_2 | ℓ_3 |
| in point | P_1 | P_{2082} | P_{2114} |

Line 2 intersects

| | |
|----------|------------|
| Line | ℓ_1 |
| in point | P_{2082} |

Line 3 intersects

| | | |
|----------|----------|------------|
| Line | ℓ_0 | ℓ_1 |
| in point | P_5 | P_{2114} |

The surface has 1089 points:

Too many to print.