

Rank-65618 over GF(32)

January 15, 2021

The equation

The equation of the surface is :

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

(1, 1, 1, 1, 0, 0, 1, 0, 0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0)
The point rank of the equation over GF(32) is -2112812986

General information

| | |
|----------------------------|-------------------------|
| 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:

$$0 : P_4 = \mathbf{P}(1, 1, 1, 1) = \mathbf{P}(1, 1, 1, 1)$$

The 4 Lines

The lines and their Pluecker coordinates are:

$$\ell_0 = \left[\begin{array}{cccc} 1 & 0 & 1 & 0 \\ 0 & 1 & 1 & 0 \end{array} \right]_{1058} = \left[\begin{array}{cccc} 1 & 0 & 1 & 0 \\ 0 & 1 & 1 & 0 \end{array} \right]_{1058} = \mathbf{Pl}(1, 0, 1, 0, 0, 1)_{34913}$$

$$\begin{aligned}\ell_1 &= \begin{bmatrix} 1 & 1 & 0 & 0 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{2082} = \begin{bmatrix} 1 & 1 & 0 & 0 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{2082} = \mathbf{Pl}(0, 0, 1, 1, 1, 1)_{70562} \\ \ell_2 &= \begin{bmatrix} 1 & 0 & 1 & 0 \\ 0 & 1 & 0 & 1 \end{bmatrix}_{1089} = \begin{bmatrix} 1 & 0 & 1 & 0 \\ 0 & 1 & 0 & 1 \end{bmatrix}_{1089} = \mathbf{Pl}(1, 1, 0, 0, 1, 1)_{68609} \\ \ell_3 &= \begin{bmatrix} 1 & 0 & 1 & 1 \\ 0 & 1 & 1 & 0 \end{bmatrix}_{34882} = \begin{bmatrix} 1 & 0 & 1 & 1 \\ 0 & 1 & 1 & 0 \end{bmatrix}_{34882} = \mathbf{Pl}(1, 1, 1, 1, 0, 1)_{38818}\end{aligned}$$

Rank of lines: (1058, 2082, 1089, 34882)

Rank of points on Klein quadric: (34913, 70562, 68609, 38818)

Eckardt Points

The surface has 0 Eckardt points:

Double Points

The surface has 4 Double points:

The double points on the surface are:

$$P_5 = (1, 1, 0, 0) = \ell_0 \cap \ell_1$$

$$P_{36} = (1, 0, 1, 0) = \ell_0 \cap \ell_2$$

$$P_{67} = (0, 1, 1, 0) = \ell_0 \cap \ell_3$$

$$P_4 = (1, 1, 1, 1) = \ell_1 \cap \ell_2$$

Single Points

The surface has 124 single points:

The single points on the surface are:

0 : $P_{102} = (3, 2, 1, 0)$ lies on line ℓ_0

1 : $P_{133} = (2, 3, 1, 0)$ lies on line ℓ_0

2 : $P_{168} = (5, 4, 1, 0)$ lies on line ℓ_0

3 : $P_{199} = (4, 5, 1, 0)$ lies on line ℓ_0

4 : $P_{234} = (7, 6, 1, 0)$ lies on line ℓ_0

5 : $P_{265} = (6, 7, 1, 0)$ lies on line ℓ_0

6 : $P_{300} = (9, 8, 1, 0)$ lies on line ℓ_0

7 : $P_{331} = (8, 9, 1, 0)$ lies on line ℓ_0

8 : $P_{366} = (11, 10, 1, 0)$ lies on line ℓ_0

9 : $P_{397} = (10, 11, 1, 0)$ lies on line ℓ_0

10 : $P_{432} = (13, 12, 1, 0)$ lies on line ℓ_0

11 : $P_{463} = (12, 13, 1, 0)$ lies on line ℓ_0

12 : $P_{498} = (15, 14, 1, 0)$ lies on line ℓ_0

13 : $P_{529} = (14, 15, 1, 0)$ lies on line ℓ_0

14 : $P_{564} = (17, 16, 1, 0)$ lies on line ℓ_0

15 : $P_{595} = (16, 17, 1, 0)$ lies on line ℓ_0

16 : $P_{630} = (19, 18, 1, 0)$ lies on line ℓ_0

17 : $P_{661} = (18, 19, 1, 0)$ lies on line ℓ_0

18 : $P_{696} = (21, 20, 1, 0)$ lies on line ℓ_0

19 : $P_{727} = (20, 21, 1, 0)$ lies on line ℓ_0

20 : $P_{762} = (23, 22, 1, 0)$ lies on line ℓ_0

21 : $P_{793} = (22, 23, 1, 0)$ lies on line ℓ_0

22 : $P_{828} = (25, 24, 1, 0)$ lies on line ℓ_0

23 : $P_{859} = (24, 25, 1, 0)$ lies on line ℓ_0

24 : $P_{894} = (27, 26, 1, 0)$ lies on line ℓ_0

25 : $P_{925} = (26, 27, 1, 0)$ lies on line ℓ_0

26 : $P_{960} = (29, 28, 1, 0)$ lies on line ℓ_0

27 : $P_{991} = (28, 29, 1, 0)$ lies on line ℓ_0

28 : $P_{1026} = (31, 30, 1, 0)$ lies on line ℓ_0

29 : $P_{1057} = (30, 31, 1, 0)$ lies on line ℓ_0

30 : $P_{1090} = (0, 1, 0, 1)$ lies on line ℓ_2

31 : $P_{1091} = (1, 1, 0, 1)$ lies on line ℓ_3

32 : $P_{2082} = (0, 0, 1, 1)$ lies on line ℓ_1

33 : $P_{2083} = (1, 0, 1, 1)$ lies on line ℓ_3

34 : $P_{2147} = (2, 2, 1, 1)$ lies on line ℓ_1

35 : $P_{2180} = (3, 3, 1, 1)$ lies on line ℓ_1

36 : $P_{2213} = (4, 4, 1, 1)$ lies on line ℓ_1

37 : $P_{2246} = (5, 5, 1, 1)$ lies on line ℓ_1

38 : $P_{2279} = (6, 6, 1, 1)$ lies on line ℓ_1

39 : $P_{2312} = (7, 7, 1, 1)$ lies on line ℓ_1

40 : $P_{2345} = (8, 8, 1, 1)$ lies on line ℓ_1

41 : $P_{2378} = (9, 9, 1, 1)$ lies on line ℓ_1

42 : $P_{2411} = (10, 10, 1, 1)$ lies on line ℓ_1

43 : $P_{2444} = (11, 11, 1, 1)$ lies on line ℓ_1

- 44 : $P_{2477} = (12, 12, 1, 1)$ lies on line ℓ_1
 45 : $P_{2510} = (13, 13, 1, 1)$ lies on line ℓ_1
 46 : $P_{2543} = (14, 14, 1, 1)$ lies on line ℓ_1
 47 : $P_{2576} = (15, 15, 1, 1)$ lies on line ℓ_1
 48 : $P_{2609} = (16, 16, 1, 1)$ lies on line ℓ_1
 49 : $P_{2642} = (17, 17, 1, 1)$ lies on line ℓ_1
 50 : $P_{2675} = (18, 18, 1, 1)$ lies on line ℓ_1
 51 : $P_{2708} = (19, 19, 1, 1)$ lies on line ℓ_1
 52 : $P_{2741} = (20, 20, 1, 1)$ lies on line ℓ_1
 53 : $P_{2774} = (21, 21, 1, 1)$ lies on line ℓ_1
 54 : $P_{2807} = (22, 22, 1, 1)$ lies on line ℓ_1
 55 : $P_{2840} = (23, 23, 1, 1)$ lies on line ℓ_1
 56 : $P_{2873} = (24, 24, 1, 1)$ lies on line ℓ_1
 57 : $P_{2906} = (25, 25, 1, 1)$ lies on line ℓ_1
 58 : $P_{2939} = (26, 26, 1, 1)$ lies on line ℓ_1
 59 : $P_{2972} = (27, 27, 1, 1)$ lies on line ℓ_1
 60 : $P_{3005} = (28, 28, 1, 1)$ lies on line ℓ_1
 61 : $P_{3038} = (29, 29, 1, 1)$ lies on line ℓ_1
 62 : $P_{3071} = (30, 30, 1, 1)$ lies on line ℓ_1
 63 : $P_{3104} = (31, 31, 1, 1)$ lies on line ℓ_1
 64 : $P_{3139} = (2, 1, 2, 1)$ lies on line ℓ_2
 65 : $P_{3202} = (1, 3, 2, 1)$ lies on line ℓ_3
 66 : $P_{4164} = (3, 1, 3, 1)$ lies on line ℓ_2
 67 : $P_{4194} = (1, 2, 3, 1)$ lies on line ℓ_3
 68 : $P_{5189} = (4, 1, 4, 1)$ lies on line ℓ_2
 69 : $P_{5314} = (1, 5, 4, 1)$ lies on line ℓ_3
 70 : $P_{6214} = (5, 1, 5, 1)$ lies on line ℓ_2
 71 : $P_{6306} = (1, 4, 5, 1)$ lies on line ℓ_3
 72 : $P_{7239} = (6, 1, 6, 1)$ lies on line ℓ_2
 73 : $P_{7426} = (1, 7, 6, 1)$ lies on line ℓ_3
 74 : $P_{8264} = (7, 1, 7, 1)$ lies on line ℓ_2
 75 : $P_{8418} = (1, 6, 7, 1)$ lies on line ℓ_3
 76 : $P_{9289} = (8, 1, 8, 1)$ lies on line ℓ_2
 77 : $P_{9538} = (1, 9, 8, 1)$ lies on line ℓ_3
 78 : $P_{10314} = (9, 1, 9, 1)$ lies on line ℓ_2
 79 : $P_{10530} = (1, 8, 9, 1)$ lies on line ℓ_3
 80 : $P_{11339} = (10, 1, 10, 1)$ lies on line ℓ_2
 81 : $P_{11650} = (1, 11, 10, 1)$ lies on line ℓ_3
 82 : $P_{12364} = (11, 1, 11, 1)$ lies on line ℓ_2
 83 : $P_{12642} = (1, 10, 11, 1)$ lies on line ℓ_3
 84 : $P_{13389} = (12, 1, 12, 1)$ lies on line ℓ_2
 85 : $P_{13762} = (1, 13, 12, 1)$ lies on line ℓ_3
 86 : $P_{14414} = (13, 1, 13, 1)$ lies on line ℓ_2
 87 : $P_{14754} = (1, 12, 13, 1)$ lies on line ℓ_3
 88 : $P_{15439} = (14, 1, 14, 1)$ lies on line ℓ_2
 89 : $P_{15874} = (1, 15, 14, 1)$ lies on line ℓ_3
 90 : $P_{16464} = (15, 1, 15, 1)$ lies on line ℓ_2
 91 : $P_{16866} = (1, 14, 15, 1)$ lies on line ℓ_3
 92 : $P_{17489} = (16, 1, 16, 1)$ lies on line ℓ_2
 93 : $P_{17986} = (1, 17, 16, 1)$ lies on line ℓ_3
 94 : $P_{18514} = (17, 1, 17, 1)$ lies on line ℓ_2
 95 : $P_{18978} = (1, 16, 17, 1)$ lies on line ℓ_3
 96 : $P_{19539} = (18, 1, 18, 1)$ lies on line ℓ_2
 97 : $P_{20098} = (1, 19, 18, 1)$ lies on line ℓ_3
 98 : $P_{20564} = (19, 1, 19, 1)$ lies on line ℓ_2
 99 : $P_{21090} = (1, 18, 19, 1)$ lies on line ℓ_3
 100 : $P_{21589} = (20, 1, 20, 1)$ lies on line ℓ_2
 101 : $P_{22210} = (1, 21, 20, 1)$ lies on line ℓ_3
 102 : $P_{22614} = (21, 1, 21, 1)$ lies on line ℓ_2
 103 : $P_{23202} = (1, 20, 21, 1)$ lies on line ℓ_3
 104 : $P_{23639} = (22, 1, 22, 1)$ lies on line ℓ_2
 105 : $P_{24322} = (1, 23, 22, 1)$ lies on line ℓ_3
 106 : $P_{24664} = (23, 1, 23, 1)$ lies on line ℓ_2
 107 : $P_{25314} = (1, 22, 23, 1)$ lies on line ℓ_3
 108 : $P_{25689} = (24, 1, 24, 1)$ lies on line ℓ_2
 109 : $P_{26434} = (1, 25, 24, 1)$ lies on line ℓ_3
 110 : $P_{26714} = (25, 1, 25, 1)$ lies on line ℓ_2
 111 : $P_{27426} = (1, 24, 25, 1)$ lies on line ℓ_3
 112 : $P_{27739} = (26, 1, 26, 1)$ lies on line ℓ_2
 113 : $P_{28546} = (1, 27, 26, 1)$ lies on line ℓ_3
 114 : $P_{28764} = (27, 1, 27, 1)$ lies on line ℓ_2
 115 : $P_{29538} = (1, 26, 27, 1)$ lies on line ℓ_3
 116 : $P_{29789} = (28, 1, 28, 1)$ lies on line ℓ_2
 117 : $P_{30658} = (1, 29, 28, 1)$ lies on line ℓ_3
 118 : $P_{30814} = (29, 1, 29, 1)$ lies on line ℓ_2
 119 : $P_{31650} = (1, 28, 29, 1)$ lies on line ℓ_3
 120 : $P_{31839} = (30, 1, 30, 1)$ lies on line ℓ_2
 121 : $P_{32770} = (1, 31, 30, 1)$ lies on line ℓ_3
 122 : $P_{32864} = (31, 1, 31, 1)$ lies on line ℓ_2
 123 : $P_{33762} = (1, 30, 31, 1)$ lies on line ℓ_3

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 : $P_{68} = (1, 1, 1, 0)$
 1 : $P_{1133} = (11, 2, 0, 1)$
 2 : $P_{1159} = (5, 3, 0, 1)$
 3 : $P_{1201} = (15, 4, 0, 1)$
 4 : $P_{1235} = (17, 5, 0, 1)$
 5 : $P_{1295} = (13, 7, 0, 1)$

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| 6 : $P_{1302} = (20, 7, 0, 1)$ | 60 : $P_{3035} = (26, 29, 1, 1)$ |
| 7 : $P_{1306} = (24, 7, 0, 1)$ | 61 : $P_{3116} = (11, 0, 2, 1)$ |
| 8 : $P_{1328} = (14, 8, 0, 1)$ | 62 : $P_{3157} = (20, 1, 2, 1)$ |
| 9 : $P_{1408} = (30, 10, 0, 1)$ | 63 : $P_{3160} = (23, 1, 2, 1)$ |
| 10 : $P_{1468} = (26, 12, 0, 1)$ | 64 : $P_{3226} = (25, 3, 2, 1)$ |
| 11 : $P_{1492} = (18, 13, 0, 1)$ | 65 : $P_{3238} = (5, 4, 2, 1)$ |
| 12 : $P_{1525} = (19, 14, 0, 1)$ | 66 : $P_{3300} = (3, 6, 2, 1)$ |
| 13 : $P_{1601} = (31, 16, 0, 1)$ | 67 : $P_{3325} = (28, 6, 2, 1)$ |
| 14 : $P_{1614} = (12, 17, 0, 1)$ | 68 : $P_{3327} = (30, 6, 2, 1)$ |
| 15 : $P_{1676} = (10, 19, 0, 1)$ | 69 : $P_{3348} = (19, 7, 2, 1)$ |
| 16 : $P_{1737} = (7, 21, 0, 1)$ | 70 : $P_{3386} = (25, 8, 2, 1)$ |
| 17 : $P_{1757} = (27, 21, 0, 1)$ | 71 : $P_{3482} = (25, 11, 2, 1)$ |
| 18 : $P_{1759} = (29, 21, 0, 1)$ | 72 : $P_{3489} = (0, 12, 2, 1)$ |
| 19 : $P_{1798} = (4, 23, 0, 1)$ | 73 : $P_{3545} = (24, 13, 2, 1)$ |
| 20 : $P_{1819} = (25, 23, 0, 1)$ | 74 : $P_{3638} = (21, 16, 2, 1)$ |
| 21 : $P_{1822} = (28, 23, 0, 1)$ | 75 : $P_{3693} = (12, 18, 2, 1)$ |
| 22 : $P_{1832} = (6, 24, 0, 1)$ | 76 : $P_{3743} = (30, 19, 2, 1)$ |
| 23 : $P_{1842} = (16, 24, 0, 1)$ | 77 : $P_{3784} = (7, 21, 2, 1)$ |
| 24 : $P_{1849} = (23, 24, 0, 1)$ | 78 : $P_{3801} = (24, 21, 2, 1)$ |
| 25 : $P_{1893} = (3, 26, 0, 1)$ | 79 : $P_{3807} = (30, 21, 2, 1)$ |
| 26 : $P_{1931} = (9, 27, 0, 1)$ | 80 : $P_{3835} = (26, 22, 2, 1)$ |
| 27 : $P_{1956} = (2, 28, 0, 1)$ | 81 : $P_{3863} = (22, 23, 2, 1)$ |
| 28 : $P_{1975} = (21, 28, 0, 1)$ | 82 : $P_{3897} = (24, 24, 2, 1)$ |
| 29 : $P_{1976} = (22, 28, 0, 1)$ | 83 : $P_{3972} = (3, 27, 2, 1)$ |
| 30 : $P_{2026} = (8, 30, 0, 1)$ | 84 : $P_{4036} = (3, 29, 2, 1)$ |
| 31 : $P_{2165} = (20, 2, 1, 1)$ | 85 : $P_{4042} = (9, 29, 2, 1)$ |
| 32 : $P_{2168} = (23, 2, 1, 1)$ | 86 : $P_{4044} = (11, 29, 2, 1)$ |
| 33 : $P_{2233} = (24, 4, 1, 1)$ | 87 : $P_{4080} = (15, 30, 2, 1)$ |
| 34 : $P_{2238} = (29, 4, 1, 1)$ | 88 : $P_{4134} = (5, 0, 3, 1)$ |
| 35 : $P_{2290} = (17, 6, 1, 1)$ | 89 : $P_{4218} = (25, 2, 3, 1)$ |
| 36 : $P_{2295} = (22, 6, 1, 1)$ | 90 : $P_{4242} = (17, 3, 3, 1)$ |
| 37 : $P_{2331} = (26, 7, 1, 1)$ | 91 : $P_{4310} = (21, 5, 3, 1)$ |
| 38 : $P_{2333} = (28, 7, 1, 1)$ | 92 : $P_{4341} = (20, 6, 3, 1)$ |
| 39 : $P_{2518} = (21, 13, 1, 1)$ | 93 : $P_{4367} = (14, 7, 3, 1)$ |
| 40 : $P_{2522} = (25, 13, 1, 1)$ | 94 : $P_{4394} = (9, 8, 3, 1)$ |
| 41 : $P_{2600} = (7, 16, 1, 1)$ | 95 : $P_{4452} = (3, 10, 3, 1)$ |
| 42 : $P_{2615} = (22, 16, 1, 1)$ | 96 : $P_{4453} = (4, 10, 3, 1)$ |
| 43 : $P_{2733} = (12, 20, 1, 1)$ | 97 : $P_{4455} = (6, 10, 3, 1)$ |
| 44 : $P_{2746} = (25, 20, 1, 1)$ | 98 : $P_{4484} = (3, 11, 3, 1)$ |
| 45 : $P_{2756} = (3, 21, 1, 1)$ | 99 : $P_{4486} = (5, 11, 3, 1)$ |
| 46 : $P_{2776} = (23, 21, 1, 1)$ | 100 : $P_{4488} = (7, 11, 3, 1)$ |
| 47 : $P_{2788} = (3, 22, 1, 1)$ | 101 : $P_{4536} = (23, 12, 3, 1)$ |
| 48 : $P_{2805} = (20, 22, 1, 1)$ | 102 : $P_{4593} = (16, 14, 3, 1)$ |
| 49 : $P_{2824} = (7, 23, 1, 1)$ | 103 : $P_{4641} = (0, 16, 3, 1)$ |
| 50 : $P_{2834} = (17, 23, 1, 1)$ | 104 : $P_{4680} = (7, 17, 3, 1)$ |
| 51 : $P_{2861} = (12, 24, 1, 1)$ | 105 : $P_{4757} = (20, 19, 3, 1)$ |
| 52 : $P_{2870} = (21, 24, 1, 1)$ | 106 : $P_{4809} = (8, 21, 3, 1)$ |
| 53 : $P_{2886} = (5, 25, 1, 1)$ | 107 : $P_{4821} = (20, 21, 3, 1)$ |
| 54 : $P_{2910} = (29, 25, 1, 1)$ | 108 : $P_{4830} = (29, 21, 3, 1)$ |
| 55 : $P_{2951} = (6, 27, 1, 1)$ | 109 : $P_{4874} = (9, 23, 3, 1)$ |
| 56 : $P_{2973} = (28, 27, 1, 1)$ | 110 : $P_{4921} = (24, 24, 3, 1)$ |
| 57 : $P_{2982} = (5, 28, 1, 1)$ | 111 : $P_{4968} = (7, 26, 3, 1)$ |
| 58 : $P_{3001} = (24, 28, 1, 1)$ | 112 : $P_{5050} = (25, 28, 3, 1)$ |
| 59 : $P_{3015} = (6, 29, 1, 1)$ | 113 : $P_{5114} = (25, 30, 3, 1)$ |

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| 114 : $P_{5130} = (9, 31, 3, 1)$ | 168 : $P_{7150} = (13, 30, 5, 1)$ |
| 115 : $P_{5168} = (15, 0, 4, 1)$ | 169 : $P_{7250} = (17, 1, 6, 1)$ |
| 116 : $P_{5209} = (24, 1, 4, 1)$ | 170 : $P_{7255} = (22, 1, 6, 1)$ |
| 117 : $P_{5214} = (29, 1, 4, 1)$ | 171 : $P_{7268} = (3, 2, 6, 1)$ |
| 118 : $P_{5222} = (5, 2, 4, 1)$ | 172 : $P_{7293} = (28, 2, 6, 1)$ |
| 119 : $P_{5319} = (6, 5, 4, 1)$ | 173 : $P_{7295} = (30, 2, 6, 1)$ |
| 120 : $P_{5384} = (7, 7, 4, 1)$ | 174 : $P_{7317} = (20, 3, 6, 1)$ |
| 121 : $P_{5428} = (19, 8, 4, 1)$ | 175 : $P_{7395} = (2, 6, 6, 1)$ |
| 122 : $P_{5467} = (26, 9, 4, 1)$ | 176 : $P_{7401} = (8, 6, 6, 1)$ |
| 123 : $P_{5479} = (6, 10, 4, 1)$ | 177 : $P_{7404} = (11, 6, 6, 1)$ |
| 124 : $P_{5597} = (28, 13, 4, 1)$ | 178 : $P_{7456} = (31, 7, 6, 1)$ |
| 125 : $P_{5639} = (6, 15, 4, 1)$ | 179 : $P_{7477} = (20, 8, 6, 1)$ |
| 126 : $P_{5682} = (17, 16, 4, 1)$ | 180 : $P_{7491} = (2, 9, 6, 1)$ |
| 127 : $P_{5792} = (31, 19, 4, 1)$ | 181 : $P_{7552} = (31, 10, 6, 1)$ |
| 128 : $P_{5798} = (5, 20, 4, 1)$ | 182 : $P_{7567} = (14, 11, 6, 1)$ |
| 129 : $P_{5812} = (19, 20, 4, 1)$ | 183 : $P_{7573} = (20, 11, 6, 1)$ |
| 130 : $P_{5816} = (23, 20, 4, 1)$ | 184 : $P_{7580} = (27, 11, 6, 1)$ |
| 131 : $P_{5833} = (8, 21, 4, 1)$ | 185 : $P_{7629} = (12, 13, 6, 1)$ |
| 132 : $P_{5862} = (5, 22, 4, 1)$ | 186 : $P_{7635} = (18, 13, 6, 1)$ |
| 133 : $P_{5868} = (11, 22, 4, 1)$ | 187 : $P_{7648} = (31, 13, 6, 1)$ |
| 134 : $P_{5872} = (15, 22, 4, 1)$ | 188 : $P_{7665} = (16, 14, 6, 1)$ |
| 135 : $P_{5946} = (25, 24, 4, 1)$ | 189 : $P_{7683} = (2, 15, 6, 1)$ |
| 136 : $P_{5956} = (3, 25, 4, 1)$ | 190 : $P_{7718} = (5, 16, 6, 1)$ |
| 137 : $P_{5985} = (0, 26, 4, 1)$ | 191 : $P_{7777} = (0, 18, 6, 1)$ |
| 138 : $P_{6024} = (7, 27, 4, 1)$ | 192 : $P_{7818} = (9, 19, 6, 1)$ |
| 139 : $P_{6056} = (7, 28, 4, 1)$ | 193 : $P_{7886} = (13, 21, 6, 1)$ |
| 140 : $P_{6068} = (19, 28, 4, 1)$ | 194 : $P_{7896} = (23, 21, 6, 1)$ |
| 141 : $P_{6070} = (21, 28, 4, 1)$ | 195 : $P_{7900} = (27, 21, 6, 1)$ |
| 142 : $P_{6194} = (17, 0, 5, 1)$ | 196 : $P_{7934} = (29, 22, 6, 1)$ |
| 143 : $P_{6294} = (21, 3, 5, 1)$ | 197 : $P_{8127} = (30, 28, 6, 1)$ |
| 144 : $P_{6311} = (6, 4, 5, 1)$ | 198 : $P_{8154} = (25, 29, 6, 1)$ |
| 145 : $P_{6349} = (12, 5, 5, 1)$ | 199 : $P_{8165} = (4, 30, 6, 1)$ |
| 146 : $P_{6408} = (7, 7, 5, 1)$ | 200 : $P_{8188} = (27, 30, 6, 1)$ |
| 147 : $P_{6462} = (29, 8, 5, 1)$ | 201 : $P_{8191} = (30, 30, 6, 1)$ |
| 148 : $P_{6508} = (11, 10, 5, 1)$ | 202 : $P_{8238} = (13, 0, 7, 1)$ |
| 149 : $P_{6582} = (21, 12, 5, 1)$ | 203 : $P_{8245} = (20, 0, 7, 1)$ |
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| 151 : $P_{6630} = (5, 14, 5, 1)$ | 205 : $P_{8283} = (26, 1, 7, 1)$ |
| 152 : $P_{6641} = (16, 14, 5, 1)$ | 206 : $P_{8285} = (28, 1, 7, 1)$ |
| 153 : $P_{6645} = (20, 14, 5, 1)$ | 207 : $P_{8308} = (19, 2, 7, 1)$ |
| 154 : $P_{6662} = (5, 15, 5, 1)$ | 208 : $P_{8335} = (14, 3, 7, 1)$ |
| 155 : $P_{6674} = (17, 15, 5, 1)$ | 209 : $P_{8360} = (7, 4, 7, 1)$ |
| 156 : $P_{6678} = (21, 15, 5, 1)$ | 210 : $P_{8392} = (7, 5, 7, 1)$ |
| 157 : $P_{6749} = (28, 17, 5, 1)$ | 211 : $P_{8448} = (31, 6, 7, 1)$ |
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| 159 : $P_{6791} = (6, 19, 5, 1)$ | 213 : $P_{8551} = (6, 10, 7, 1)$ |
| 160 : $P_{6846} = (29, 20, 5, 1)$ | 214 : $P_{8607} = (30, 11, 7, 1)$ |
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| 162 : $P_{6919} = (6, 23, 5, 1)$ | 216 : $P_{8673} = (0, 14, 7, 1)$ |
| 163 : $P_{6956} = (11, 24, 5, 1)$ | 217 : $P_{8695} = (22, 14, 7, 1)$ |
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 585 : $P_{22192} = (15, 20, 20, 1)$
 586 : $P_{22227} = (18, 21, 20, 1)$
 587 : $P_{22247} = (6, 22, 20, 1)$
 588 : $P_{22292} = (19, 23, 20, 1)$
 589 : $P_{22359} = (22, 25, 20, 1)$
 590 : $P_{22410} = (9, 27, 20, 1)$
 591 : $P_{22419} = (18, 27, 20, 1)$
 592 : $P_{22427} = (26, 27, 20, 1)$
 593 : $P_{22435} = (2, 28, 20, 1)$
 594 : $P_{22457} = (24, 28, 20, 1)$
 595 : $P_{22460} = (27, 28, 20, 1)$
 596 : $P_{22510} = (13, 30, 20, 1)$
 597 : $P_{22533} = (4, 31, 20, 1)$
 598 : $P_{22568} = (7, 0, 21, 1)$
 599 : $P_{22588} = (27, 0, 21, 1)$

600 : $P_{22590} = (29, 0, 21, 1)$
 601 : $P_{22596} = (3, 1, 21, 1)$
 602 : $P_{22616} = (23, 1, 21, 1)$
 603 : $P_{22632} = (7, 2, 21, 1)$
 604 : $P_{22649} = (24, 2, 21, 1)$
 605 : $P_{22655} = (30, 2, 21, 1)$
 606 : $P_{22665} = (8, 3, 21, 1)$
 607 : $P_{22677} = (20, 3, 21, 1)$
 608 : $P_{22686} = (29, 3, 21, 1)$
 609 : $P_{22697} = (8, 4, 21, 1)$
 610 : $P_{22751} = (30, 5, 21, 1)$
 611 : $P_{22766} = (13, 6, 21, 1)$
 612 : $P_{22776} = (23, 6, 21, 1)$
 613 : $P_{22780} = (27, 6, 21, 1)$
 614 : $P_{22793} = (8, 7, 21, 1)$
 615 : $P_{22808} = (23, 7, 21, 1)$
 616 : $P_{22815} = (30, 7, 21, 1)$
 617 : $P_{22976} = (31, 12, 21, 1)$
 618 : $P_{22997} = (20, 13, 21, 1)$
 619 : $P_{23029} = (20, 14, 21, 1)$
 620 : $P_{23060} = (19, 15, 21, 1)$
 621 : $P_{23094} = (21, 16, 21, 1)$
 622 : $P_{23126} = (21, 17, 21, 1)$
 623 : $P_{23140} = (3, 18, 21, 1)$
 624 : $P_{23172} = (3, 19, 21, 1)$
 625 : $P_{23186} = (17, 19, 21, 1)$
 626 : $P_{23188} = (19, 19, 21, 1)$
 627 : $P_{23219} = (18, 20, 21, 1)$
 628 : $P_{23239} = (6, 21, 21, 1)$
 629 : $P_{23375} = (14, 25, 21, 1)$
 630 : $P_{23415} = (22, 26, 21, 1)$
 631 : $P_{23467} = (10, 28, 21, 1)$
 632 : $P_{23476} = (19, 28, 21, 1)$
 633 : $P_{23481} = (24, 28, 21, 1)$
 634 : $P_{23521} = (0, 30, 21, 1)$
 635 : $P_{23545} = (24, 30, 21, 1)$
 636 : $P_{23546} = (25, 30, 21, 1)$
 637 : $P_{23620} = (3, 1, 22, 1)$
 638 : $P_{23637} = (20, 1, 22, 1)$
 639 : $P_{23675} = (26, 2, 22, 1)$
 640 : $P_{23718} = (5, 4, 22, 1)$
 641 : $P_{23724} = (11, 4, 22, 1)$
 642 : $P_{23728} = (15, 4, 22, 1)$
 643 : $P_{23806} = (29, 6, 22, 1)$
 644 : $P_{23819} = (10, 7, 22, 1)$
 645 : $P_{23843} = (2, 8, 22, 1)$
 646 : $P_{23886} = (13, 9, 22, 1)$
 647 : $P_{23915} = (10, 10, 22, 1)$
 648 : $P_{23921} = (16, 10, 22, 1)$
 649 : $P_{23932} = (27, 10, 22, 1)$
 650 : $P_{23994} = (25, 12, 22, 1)$
 651 : $P_{24008} = (7, 13, 22, 1)$
 652 : $P_{24011} = (10, 13, 22, 1)$
 653 : $P_{24013} = (12, 13, 22, 1)$

654 : $P_{24064} = (31, 14, 22, 1)$
 655 : $P_{24065} = (0, 15, 22, 1)$
 656 : $P_{24169} = (8, 18, 22, 1)$
 657 : $P_{24177} = (16, 18, 22, 1)$
 658 : $P_{24186} = (25, 18, 22, 1)$
 659 : $P_{24204} = (11, 19, 22, 1)$
 660 : $P_{24231} = (6, 20, 22, 1)$
 661 : $P_{24302} = (13, 22, 22, 1)$
 662 : $P_{24307} = (18, 22, 22, 1)$
 663 : $P_{24319} = (30, 22, 22, 1)$
 664 : $P_{24332} = (11, 23, 22, 1)$
 665 : $P_{24357} = (4, 24, 22, 1)$
 666 : $P_{24369} = (16, 24, 22, 1)$
 667 : $P_{24374} = (21, 24, 22, 1)$
 668 : $P_{24570} = (25, 30, 22, 1)$
 669 : $P_{24590} = (13, 31, 22, 1)$
 670 : $P_{24613} = (4, 0, 23, 1)$
 671 : $P_{24634} = (25, 0, 23, 1)$
 672 : $P_{24637} = (28, 0, 23, 1)$
 673 : $P_{24648} = (7, 1, 23, 1)$
 674 : $P_{24658} = (17, 1, 23, 1)$
 675 : $P_{24695} = (22, 2, 23, 1)$
 676 : $P_{24714} = (9, 3, 23, 1)$
 677 : $P_{24775} = (6, 5, 23, 1)$
 678 : $P_{24865} = (0, 8, 23, 1)$
 679 : $P_{24885} = (20, 8, 23, 1)$
 680 : $P_{24886} = (21, 8, 23, 1)$
 681 : $P_{24939} = (10, 10, 23, 1)$
 682 : $P_{24946} = (17, 10, 23, 1)$
 683 : $P_{24955} = (26, 10, 23, 1)$
 684 : $P_{24978} = (17, 11, 23, 1)$
 685 : $P_{25001} = (8, 12, 23, 1)$
 686 : $P_{25039} = (14, 13, 23, 1)$
 687 : $P_{25129} = (8, 16, 23, 1)$
 688 : $P_{25142} = (21, 16, 23, 1)$
 689 : $P_{25149} = (28, 16, 23, 1)$
 690 : $P_{25167} = (14, 17, 23, 1)$
 691 : $P_{25175} = (22, 17, 23, 1)$
 692 : $P_{25178} = (25, 17, 23, 1)$
 693 : $P_{25195} = (10, 18, 23, 1)$
 694 : $P_{25239} = (22, 19, 23, 1)$
 695 : $P_{25268} = (19, 20, 23, 1)$
 696 : $P_{25324} = (11, 22, 23, 1)$
 697 : $P_{25374} = (29, 23, 23, 1)$
 698 : $P_{25387} = (10, 24, 23, 1)$
 699 : $P_{25398} = (21, 24, 23, 1)$
 700 : $P_{25407} = (30, 24, 23, 1)$
 701 : $P_{25464} = (23, 26, 23, 1)$
 702 : $P_{25496} = (23, 27, 23, 1)$
 703 : $P_{25512} = (7, 28, 23, 1)$
 704 : $P_{25513} = (8, 28, 23, 1)$
 705 : $P_{25519} = (14, 28, 23, 1)$
 706 : $P_{25539} = (2, 29, 23, 1)$
 707 : $P_{25541} = (4, 29, 23, 1)$

708 : $P_{25544} = (7, 29, 23, 1)$
 709 : $P_{25639} = (6, 0, 24, 1)$
 710 : $P_{25649} = (16, 0, 24, 1)$
 711 : $P_{25656} = (23, 0, 24, 1)$
 712 : $P_{25677} = (12, 1, 24, 1)$
 713 : $P_{25686} = (21, 1, 24, 1)$
 714 : $P_{25721} = (24, 2, 24, 1)$
 715 : $P_{25753} = (24, 3, 24, 1)$
 716 : $P_{25786} = (25, 4, 24, 1)$
 717 : $P_{25804} = (11, 5, 24, 1)$
 718 : $P_{25871} = (14, 7, 24, 1)$
 719 : $P_{25876} = (19, 7, 24, 1)$
 720 : $P_{25885} = (28, 7, 24, 1)$
 721 : $P_{25914} = (25, 8, 24, 1)$
 722 : $P_{25935} = (14, 9, 24, 1)$
 723 : $P_{25953} = (0, 10, 24, 1)$
 724 : $P_{25981} = (28, 10, 24, 1)$
 725 : $P_{25982} = (29, 10, 24, 1)$
 726 : $P_{26023} = (6, 12, 24, 1)$
 727 : $P_{26042} = (25, 12, 24, 1)$
 728 : $P_{26047} = (30, 12, 24, 1)$
 729 : $P_{26059} = (10, 13, 24, 1)$
 730 : $P_{26072} = (23, 13, 24, 1)$
 731 : $P_{26077} = (28, 13, 24, 1)$
 732 : $P_{26084} = (3, 14, 24, 1)$
 733 : $P_{26093} = (12, 14, 24, 1)$
 734 : $P_{26095} = (14, 14, 24, 1)$
 735 : $P_{26125} = (12, 15, 24, 1)$
 736 : $P_{26197} = (20, 17, 24, 1)$
 737 : $P_{26341} = (4, 22, 24, 1)$
 738 : $P_{26353} = (16, 22, 24, 1)$
 739 : $P_{26358} = (21, 22, 24, 1)$
 740 : $P_{26379} = (10, 23, 24, 1)$
 741 : $P_{26390} = (21, 23, 24, 1)$
 742 : $P_{26399} = (30, 23, 24, 1)$
 743 : $P_{26423} = (22, 24, 24, 1)$
 744 : $P_{26448} = (15, 25, 24, 1)$
 745 : $P_{26475} = (10, 26, 24, 1)$
 746 : $P_{26527} = (30, 27, 24, 1)$
 747 : $P_{26569} = (8, 29, 24, 1)$
 748 : $P_{26694} = (5, 1, 25, 1)$
 749 : $P_{26718} = (29, 1, 25, 1)$
 750 : $P_{26788} = (3, 4, 25, 1)$
 751 : $P_{26894} = (13, 7, 25, 1)$
 752 : $P_{26897} = (16, 7, 25, 1)$
 753 : $P_{26909} = (28, 7, 25, 1)$
 754 : $P_{26928} = (15, 8, 25, 1)$
 755 : $P_{26951} = (6, 9, 25, 1)$
 756 : $P_{26955} = (10, 9, 25, 1)$
 757 : $P_{26958} = (13, 9, 25, 1)$
 758 : $P_{26981} = (4, 10, 25, 1)$
 759 : $P_{27036} = (27, 11, 25, 1)$
 760 : $P_{27107} = (2, 14, 25, 1)$
 761 : $P_{27118} = (13, 14, 25, 1)$

762 : $P_{27119} = (14, 14, 25, 1)$
 763 : $P_{27184} = (15, 16, 25, 1)$
 764 : $P_{27186} = (17, 16, 25, 1)$
 765 : $P_{27200} = (31, 16, 25, 1)$
 766 : $P_{27260} = (27, 18, 25, 1)$
 767 : $P_{27271} = (6, 19, 25, 1)$
 768 : $P_{27319} = (22, 20, 25, 1)$
 769 : $P_{27343} = (14, 21, 25, 1)$
 770 : $P_{27440} = (15, 24, 25, 1)$
 771 : $P_{27466} = (9, 25, 25, 1)$
 772 : $P_{27476} = (19, 25, 25, 1)$
 773 : $P_{27484} = (27, 25, 25, 1)$
 774 : $P_{27495} = (6, 26, 25, 1)$
 775 : $P_{27535} = (14, 27, 25, 1)$
 776 : $P_{27542} = (21, 27, 25, 1)$
 777 : $P_{27547} = (26, 27, 25, 1)$
 778 : $P_{27605} = (20, 29, 25, 1)$
 779 : $P_{27635} = (18, 30, 25, 1)$
 780 : $P_{27649} = (0, 31, 25, 1)$
 781 : $P_{27684} = (3, 0, 26, 1)$
 782 : $P_{27784} = (7, 3, 26, 1)$
 783 : $P_{27809} = (0, 4, 26, 1)$
 784 : $P_{27865} = (24, 5, 26, 1)$
 785 : $P_{27911} = (6, 7, 26, 1)$
 786 : $P_{27924} = (19, 7, 26, 1)$
 787 : $P_{27925} = (20, 7, 26, 1)$
 788 : $P_{27939} = (2, 8, 26, 1)$
 789 : $P_{27962} = (25, 8, 26, 1)$
 790 : $P_{27963} = (26, 8, 26, 1)$
 791 : $P_{27972} = (3, 9, 26, 1)$
 792 : $P_{27993} = (24, 9, 26, 1)$
 793 : $P_{27995} = (26, 9, 26, 1)$
 794 : $P_{28005} = (4, 10, 26, 1)$
 795 : $P_{28089} = (24, 12, 26, 1)$
 796 : $P_{28151} = (22, 14, 26, 1)$
 797 : $P_{28179} = (18, 15, 26, 1)$
 798 : $P_{28253} = (28, 17, 26, 1)$
 799 : $P_{28307} = (18, 19, 26, 1)$
 800 : $P_{28375} = (22, 21, 26, 1)$
 801 : $P_{28440} = (23, 23, 26, 1)$
 802 : $P_{28459} = (10, 24, 26, 1)$
 803 : $P_{28487} = (6, 25, 26, 1)$
 804 : $P_{28518} = (5, 26, 26, 1)$
 805 : $P_{28567} = (22, 27, 26, 1)$
 806 : $P_{28595} = (18, 28, 26, 1)$
 807 : $P_{28647} = (6, 30, 26, 1)$
 808 : $P_{28714} = (9, 0, 27, 1)$
 809 : $P_{28743} = (6, 1, 27, 1)$
 810 : $P_{28765} = (28, 1, 27, 1)$
 811 : $P_{28772} = (3, 2, 27, 1)$
 812 : $P_{28840} = (7, 4, 27, 1)$
 813 : $P_{28943} = (14, 7, 27, 1)$
 814 : $P_{28952} = (23, 7, 27, 1)$
 815 : $P_{28953} = (24, 7, 27, 1)$

816 : $P_{29015} = (22, 9, 27, 1)$
 817 : $P_{29147} = (26, 13, 27, 1)$
 818 : $P_{29164} = (11, 14, 27, 1)$
 819 : $P_{29240} = (23, 16, 27, 1)$
 820 : $P_{29249} = (0, 17, 27, 1)$
 821 : $P_{29335} = (22, 19, 27, 1)$
 822 : $P_{29354} = (9, 20, 27, 1)$
 823 : $P_{29363} = (18, 20, 27, 1)$
 824 : $P_{29371} = (26, 20, 27, 1)$
 825 : $P_{29464} = (23, 23, 27, 1)$
 826 : $P_{29503} = (30, 24, 27, 1)$
 827 : $P_{29519} = (14, 25, 27, 1)$
 828 : $P_{29526} = (21, 25, 27, 1)$
 829 : $P_{29531} = (26, 25, 27, 1)$
 830 : $P_{29559} = (22, 26, 27, 1)$
 831 : $P_{29630} = (29, 28, 27, 1)$
 832 : $P_{29645} = (12, 29, 27, 1)$
 833 : $P_{29679} = (14, 30, 27, 1)$
 834 : $P_{29714} = (17, 31, 27, 1)$
 835 : $P_{29731} = (2, 0, 28, 1)$
 836 : $P_{29750} = (21, 0, 28, 1)$
 837 : $P_{29751} = (22, 0, 28, 1)$
 838 : $P_{29766} = (5, 1, 28, 1)$
 839 : $P_{29785} = (24, 1, 28, 1)$
 840 : $P_{29850} = (25, 3, 28, 1)$
 841 : $P_{29864} = (7, 4, 28, 1)$
 842 : $P_{29876} = (19, 4, 28, 1)$
 843 : $P_{29878} = (21, 4, 28, 1)$
 844 : $P_{29899} = (10, 5, 28, 1)$
 845 : $P_{29911} = (22, 5, 28, 1)$
 846 : $P_{29918} = (29, 5, 28, 1)$
 847 : $P_{29951} = (30, 6, 28, 1)$
 848 : $P_{29990} = (5, 8, 28, 1)$
 849 : $P_{29993} = (8, 8, 28, 1)$
 850 : $P_{29997} = (12, 8, 28, 1)$
 851 : $P_{30022} = (5, 9, 28, 1)$
 852 : $P_{30141} = (28, 12, 28, 1)$
 853 : $P_{30173} = (28, 13, 28, 1)$
 854 : $P_{30251} = (10, 16, 28, 1)$
 855 : $P_{30292} = (19, 17, 28, 1)$
 856 : $P_{30337} = (0, 19, 28, 1)$
 857 : $P_{30343} = (6, 19, 28, 1)$
 858 : $P_{30344} = (7, 19, 28, 1)$
 859 : $P_{30371} = (2, 20, 28, 1)$
 860 : $P_{30393} = (24, 20, 28, 1)$
 861 : $P_{30396} = (27, 20, 28, 1)$
 862 : $P_{30411} = (10, 21, 28, 1)$
 863 : $P_{30420} = (19, 21, 28, 1)$
 864 : $P_{30425} = (24, 21, 28, 1)$
 865 : $P_{30472} = (7, 23, 28, 1)$
 866 : $P_{30473} = (8, 23, 28, 1)$
 867 : $P_{30479} = (14, 23, 28, 1)$
 868 : $P_{30579} = (18, 26, 28, 1)$
 869 : $P_{30622} = (29, 27, 28, 1)$

870 : $P_{30645} = (20, 28, 28, 1)$
 871 : $P_{30666} = (9, 29, 28, 1)$
 872 : $P_{30718} = (29, 30, 28, 1)$
 873 : $P_{30729} = (8, 31, 28, 1)$
 874 : $P_{30791} = (6, 1, 29, 1)$
 875 : $P_{30811} = (26, 1, 29, 1)$
 876 : $P_{30820} = (3, 2, 29, 1)$
 877 : $P_{30826} = (9, 2, 29, 1)$
 878 : $P_{30828} = (11, 2, 29, 1)$
 879 : $P_{30970} = (25, 6, 29, 1)$
 880 : $P_{31013} = (4, 8, 29, 1)$
 881 : $P_{31017} = (8, 8, 29, 1)$
 882 : $P_{31022} = (13, 8, 29, 1)$
 883 : $P_{31088} = (15, 10, 29, 1)$
 884 : $P_{31105} = (0, 11, 29, 1)$
 885 : $P_{31223} = (22, 14, 29, 1)$
 886 : $P_{31249} = (16, 15, 29, 1)$
 887 : $P_{31273} = (8, 16, 29, 1)$
 888 : $P_{31282} = (17, 16, 29, 1)$
 889 : $P_{31289} = (24, 16, 29, 1)$
 890 : $P_{31319} = (22, 17, 29, 1)$
 891 : $P_{31345} = (16, 18, 29, 1)$
 892 : $P_{31388} = (27, 19, 29, 1)$
 893 : $P_{31491} = (2, 23, 29, 1)$
 894 : $P_{31493} = (4, 23, 29, 1)$
 895 : $P_{31496} = (7, 23, 29, 1)$
 896 : $P_{31529} = (8, 24, 29, 1)$
 897 : $P_{31573} = (20, 25, 29, 1)$
 898 : $P_{31629} = (12, 27, 29, 1)$
 899 : $P_{31658} = (9, 28, 29, 1)$
 900 : $P_{31695} = (14, 29, 29, 1)$
 901 : $P_{31697} = (16, 29, 29, 1)$
 902 : $P_{31712} = (31, 29, 29, 1)$
 903 : $P_{31722} = (9, 30, 29, 1)$
 904 : $P_{31749} = (4, 31, 29, 1)$
 905 : $P_{31764} = (19, 31, 29, 1)$
 906 : $P_{31767} = (22, 31, 29, 1)$
 907 : $P_{31785} = (8, 0, 30, 1)$
 908 : $P_{31856} = (15, 2, 30, 1)$
 909 : $P_{31898} = (25, 3, 30, 1)$
 910 : $P_{31950} = (13, 5, 30, 1)$
 911 : $P_{31973} = (4, 6, 30, 1)$
 912 : $P_{31996} = (27, 6, 30, 1)$
 913 : $P_{31999} = (30, 6, 30, 1)$
 914 : $P_{32006} = (5, 7, 30, 1)$
 915 : $P_{32027} = (26, 7, 30, 1)$

916 : $P_{32031} = (30, 7, 30, 1)$
 917 : $P_{32073} = (8, 9, 30, 1)$
 918 : $P_{32084} = (19, 9, 30, 1)$
 919 : $P_{32091} = (26, 9, 30, 1)$
 920 : $P_{32192} = (31, 12, 30, 1)$
 921 : $P_{32222} = (29, 13, 30, 1)$
 922 : $P_{32251} = (26, 14, 30, 1)$
 923 : $P_{32280} = (23, 15, 30, 1)$
 924 : $P_{32334} = (13, 17, 30, 1)$
 925 : $P_{32338} = (17, 17, 30, 1)$
 926 : $P_{32350} = (29, 17, 30, 1)$
 927 : $P_{32388} = (3, 19, 30, 1)$
 928 : $P_{32430} = (13, 20, 30, 1)$
 929 : $P_{32449} = (0, 21, 30, 1)$
 930 : $P_{32473} = (24, 21, 30, 1)$
 931 : $P_{32474} = (25, 21, 30, 1)$
 932 : $P_{32506} = (25, 22, 30, 1)$
 933 : $P_{32595} = (18, 25, 30, 1)$
 934 : $P_{32615} = (6, 26, 30, 1)$
 935 : $P_{32655} = (14, 27, 30, 1)$
 936 : $P_{32702} = (29, 28, 30, 1)$
 937 : $P_{32714} = (9, 29, 30, 1)$
 938 : $P_{32758} = (21, 30, 30, 1)$
 939 : $P_{32785} = (16, 31, 30, 1)$
 940 : $P_{32906} = (9, 3, 31, 1)$
 941 : $P_{33051} = (26, 7, 31, 1)$
 942 : $P_{33093} = (4, 9, 31, 1)$
 943 : $P_{33135} = (14, 10, 31, 1)$
 944 : $P_{33138} = (17, 10, 31, 1)$
 945 : $P_{33151} = (30, 10, 31, 1)$
 946 : $P_{33180} = (27, 11, 31, 1)$
 947 : $P_{33333} = (20, 16, 31, 1)$
 948 : $P_{33357} = (12, 17, 31, 1)$
 949 : $P_{33362} = (17, 17, 31, 1)$
 950 : $P_{33373} = (28, 17, 31, 1)$
 951 : $P_{33433} = (24, 19, 31, 1)$
 952 : $P_{33445} = (4, 20, 31, 1)$
 953 : $P_{33518} = (13, 22, 31, 1)$
 954 : $P_{33601} = (0, 25, 31, 1)$
 955 : $P_{33682} = (17, 27, 31, 1)$
 956 : $P_{33705} = (8, 28, 31, 1)$
 957 : $P_{33733} = (4, 29, 31, 1)$
 958 : $P_{33748} = (19, 29, 31, 1)$
 959 : $P_{33751} = (22, 29, 31, 1)$
 960 : $P_{33777} = (16, 30, 31, 1)$

Line Intersection Graph

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

Neighbor sets in the line intersection graph:

Line 0 intersects

| Line | ℓ_1 | ℓ_2 | ℓ_3 |
|----------|----------|----------|----------|
| in point | P_5 | P_{36} | P_{67} |

Line 1 intersects

| Line | ℓ_0 | ℓ_2 |
|----------|----------|----------|
| in point | P_5 | P_4 |

Line 2 intersects

| Line | ℓ_0 | ℓ_1 |
|----------|----------|----------|
| in point | P_{36} | P_4 |

Line 3 intersects

| Line | ℓ_0 |
|----------|----------|
| in point | P_{67} |

The surface has 1089 points:

Too many to print.