

Rank-362 over GF(32)

January 15, 2021

The equation

The equation of the surface is :

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

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

The point rank of the equation over GF(32) is -2111764402

General information

Number of lines	15
Number of points	1185
Number of singular points	0
Number of Eckardt points	15
Number of double points	0
Number of single points	450
Number of points off lines	720
Number of Hesse planes	0
Number of axes	0
Type of points on lines	33^{15}
Type of lines on points	$3^{15}, 1^{450}, 0^{720}$

Singular Points

The surface has 0 singular points:

The 15 Lines

The lines and their Pluecker coordinates are:

$$\begin{aligned} \ell_0 &= \left[\begin{array}{cccc} 1 & 0 & \eta^{26} & \eta^{14} \\ 0 & 1 & \eta^9 & \eta^{22} \end{array} \right]_{1005905} = \left[\begin{array}{cccc} 1 & 0 & 23 & 29 \\ 0 & 1 & 26 & 21 \end{array} \right]_{1005905} = \mathbf{PI}(28, 3, 14, 6, 11, 1)_{412240} \\ \ell_1 &= \left[\begin{array}{cccc} 1 & 0 & \eta^8 & \eta^{17} \\ 0 & 1 & \eta^{16} & \eta^{20} \end{array} \right]_{656808} = \left[\begin{array}{cccc} 1 & 0 & 13 & 19 \\ 0 & 1 & 27 & 12 \end{array} \right]_{656808} = \mathbf{PI}(26, 21, 21, 26, 14, 1)_{516801} \end{aligned}$$

$$\begin{aligned}
\ell_2 &= \begin{bmatrix} 1 & 0 & \eta^{21} & \eta^{28} \\ 0 & 1 & \eta^{18} & \eta^{13} \end{bmatrix}_{770395} = \begin{bmatrix} 1 & 0 & 24 & 22 \\ 0 & 1 & 3 & 28 \end{bmatrix}_{770395} = \mathbf{Pl}(23, 5, 30, 20, 15, 1)_{558183} \\
\ell_3 &= \begin{bmatrix} 1 & 0 & \eta^{16} & \eta^3 \\ 0 & 1 & \eta & \eta^9 \end{bmatrix}_{299965} = \begin{bmatrix} 1 & 0 & 27 & 8 \\ 0 & 1 & 2 & 26 \end{bmatrix}_{299965} = \mathbf{Pl}(3, 28, 28, 3, 30, 1)_{1047436} \\
\ell_4 &= \begin{bmatrix} 1 & 0 & \eta^{10} & \eta^8 \\ 0 & 1 & \eta^{21} & \eta^{26} \end{bmatrix}_{458441} = \begin{bmatrix} 1 & 0 & 17 & 13 \\ 0 & 1 & 24 & 23 \end{bmatrix}_{458441} = \mathbf{Pl}(24, 17, 4, 9, 27, 1)_{927332} \\
\ell_5 &= \begin{bmatrix} 1 & 0 & \eta^2 & \eta^{12} \\ 0 & 1 & \eta^4 & \eta^5 \end{bmatrix}_{477940} = \begin{bmatrix} 1 & 0 & 4 & 14 \\ 0 & 1 & 16 & 5 \end{bmatrix}_{477940} = \mathbf{Pl}(17, 24, 24, 17, 8, 1)_{323817} \\
\ell_6 &= \begin{bmatrix} 1 & 0 & \eta^{22} & \eta^{19} \\ 0 & 1 & \eta^{10} & \eta^{21} \end{bmatrix}_{225926} = \begin{bmatrix} 1 & 0 & 21 & 6 \\ 0 & 1 & 17 & 24 \end{bmatrix}_{225926} = \mathbf{Pl}(7, 12, 8, 22, 18, 1)_{636070} \\
\ell_7 &= \begin{bmatrix} 1 & 0 & \eta^{11} & \eta^{25} \\ 0 & 1 & \eta^5 & \eta^{26} \end{bmatrix}_{853740} = \begin{bmatrix} 1 & 0 & 7 & 25 \\ 0 & 1 & 5 & 23 \end{bmatrix}_{853740} = \mathbf{Pl}(24, 17, 19, 29, 31, 1)_{1072226} \\
\ell_8 &= \begin{bmatrix} 1 & 0 & \eta & \eta^6 \\ 0 & 1 & \eta^2 & \eta^{18} \end{bmatrix}_{340454} = \begin{bmatrix} 1 & 0 & 2 & 10 \\ 0 & 1 & 4 & 3 \end{bmatrix}_{340454} = \mathbf{Pl}(5, 23, 23, 5, 19, 1)_{682537} \\
\ell_9 &= \begin{bmatrix} 1 & 0 & \eta^{20} & \eta^{16} \\ 0 & 1 & \eta^{11} & \eta^{21} \end{bmatrix}_{926707} = \begin{bmatrix} 1 & 0 & 12 & 27 \\ 0 & 1 & 7 & 24 \end{bmatrix}_{926707} = \mathbf{Pl}(7, 12, 16, 11, 2, 1)_{119734} \\
\ell_{10} &= \begin{bmatrix} 1 & 0 & \eta^{18} & \eta^2 \\ 0 & 1 & \eta^{13} & \eta^{22} \end{bmatrix}_{139167} = \begin{bmatrix} 1 & 0 & 3 & 4 \\ 0 & 1 & 28 & 21 \end{bmatrix}_{139167} = \mathbf{Pl}(28, 3, 27, 31, 16, 1)_{588010} \\
\ell_{11} &= \begin{bmatrix} 1 & 0 & \eta^5 & \eta^4 \\ 0 & 1 & \eta^{26} & \eta^{13} \end{bmatrix}_{547388} = \begin{bmatrix} 1 & 0 & 5 & 16 \\ 0 & 1 & 23 & 28 \end{bmatrix}_{547388} = \mathbf{Pl}(23, 5, 2, 18, 13, 1)_{466671} \\
\ell_{12} &= \begin{bmatrix} 1 & 0 & \eta^4 & \eta^{24} \\ 0 & 1 & \eta^8 & \eta^{10} \end{bmatrix}_{1032189} = \begin{bmatrix} 1 & 0 & 16 & 30 \\ 0 & 1 & 13 & 17 \end{bmatrix}_{1032189} = \mathbf{Pl}(12, 7, 7, 12, 10, 1)_{372761} \\
\ell_{13} &= \begin{bmatrix} 1 & 0 & \eta^{13} & \eta^7 \\ 0 & 1 & \eta^{20} & \eta^{11} \end{bmatrix}_{706312} = \begin{bmatrix} 1 & 0 & 28 & 20 \\ 0 & 1 & 12 & 7 \end{bmatrix}_{706312} = \mathbf{Pl}(21, 26, 10, 25, 9, 1)_{342979} \\
\ell_{14} &= \begin{bmatrix} 1 & 0 & \eta^9 & \eta \\ 0 & 1 & \eta^{22} & \eta^{11} \end{bmatrix}_{95375} = \begin{bmatrix} 1 & 0 & 26 & 2 \\ 0 & 1 & 21 & 7 \end{bmatrix}_{95375} = \mathbf{Pl}(21, 26, 13, 15, 4, 1)_{182089}
\end{aligned}$$

Rank of lines: (1005905, 656808, 770395, 299965, 458441, 477940, 225926, 853740, 340454, 926707, 139167, 547388, 1032189, 706312, 95375)

Rank of points on Klein quadric: (412240, 516801, 558183, 1047436, 927332, 323817, 636070, 1072226, 682537, 119734, 588010, 466671, 372761, 342979, 182089)

Eckardt Points

The surface has 15 Eckardt points:

- 0 : $P_{4054} = \mathbf{P}(\eta^{22}, \eta^{14}, \eta, 1) = \mathbf{P}(21, 29, 2, 1)$,
- 1 : $P_{5885} = \mathbf{P}(\eta^{13}, \eta^{28}, \eta^2, 1) = \mathbf{P}(28, 22, 4, 1)$,
- 2 : $P_{7612} = \mathbf{P}(\eta^{16}, \eta^{20}, \eta^{19}, 1) = \mathbf{P}(27, 12, 6, 1)$,
- 3 : $P_{10643} = \mathbf{P}(\eta^{30}, \eta^{27}, \eta^{29}, 1) = \mathbf{P}(18, 11, 9, 1)$,
- 4 : $P_{12810} = \mathbf{P}(\eta^{29}, \eta^{23}, \eta^{27}, 1) = \mathbf{P}(9, 15, 11, 1)$,
- 5 : $P_{14585} = \mathbf{P}(\eta^{21}, \eta^{19}, \eta^8, 1) = \mathbf{P}(24, 6, 13, 1)$,
- 6 : $P_{17420} = \mathbf{P}(\eta^{27}, \eta^{15}, \eta^{23}, 1) = \mathbf{P}(11, 31, 15, 1)$,
- 7 : $P_{18264} = \mathbf{P}(\eta^{26}, \eta^{25}, \eta^4, 1) = \mathbf{P}(23, 25, 16, 1)$,
- 8 : $P_{19808} = \mathbf{P}(\eta^{15}, \eta^{29}, \eta^{30}, 1) = \mathbf{P}(31, 9, 18, 1)$,
- 9 : $P_{22371} = \mathbf{P}(\eta, \eta^9, \eta^7, 1) = \mathbf{P}(2, 26, 20, 1)$,
- 10 : $P_{23761} = \mathbf{P}(\eta^4, \eta^5, \eta^{28}, 1) = \mathbf{P}(16, 5, 22, 1)$,
- 11 : $P_{27214} = \mathbf{P}(\eta^8, \eta^{10}, \eta^{25}, 1) = \mathbf{P}(13, 17, 25, 1)$,

- 12 : $P_{29352} = \mathbf{P}(\eta^{11}, \eta^7, \eta^{16}, 1) = \mathbf{P}(7, 20, 27, 1)$,
 13 : $P_{30853} = \mathbf{P}(\eta^2, \eta^{18}, \eta^{14}, 1) = \mathbf{P}(4, 3, 29, 1)$,
 14 : $P_{33392} = \mathbf{P}(\eta^{23}, \eta^{30}, \eta^{15}, 1) = \mathbf{P}(15, 18, 31, 1)$.

Double Points

The surface has 0 Double points:

The double points on the surface are:

Single Points

The surface has 450 single points:

The single points on the surface are:

- | | |
|---|---|
| 0 : $P_{125} = (26, 2, 1, 0)$ lies on line ℓ_0 | 36 : $P_{2548} = (19, 14, 1, 1)$ lies on line ℓ_{11} |
| 1 : $P_{155} = (24, 3, 1, 0)$ lies on line ℓ_1 | 37 : $P_{2699} = (10, 19, 1, 1)$ lies on line ℓ_9 |
| 2 : $P_{166} = (3, 4, 1, 0)$ lies on line ℓ_2 | 38 : $P_{2701} = (12, 19, 1, 1)$ lies on line ℓ_2 |
| 3 : $P_{202} = (7, 5, 1, 0)$ lies on line ℓ_3 | 39 : $P_{2752} = (31, 20, 1, 1)$ lies on line ℓ_8 |
| 4 : $P_{237} = (10, 6, 1, 0)$ lies on line ℓ_4 | 40 : $P_{2794} = (9, 22, 1, 1)$ lies on line ℓ_{12} |
| 5 : $P_{447} = (28, 12, 1, 0)$ lies on line ℓ_5 | 41 : $P_{2892} = (11, 25, 1, 1)$ lies on line ℓ_1 |
| 6 : $P_{468} = (17, 13, 1, 0)$ lies on line ℓ_6 | 42 : $P_{3027} = (18, 29, 1, 1)$ lies on line ℓ_5 |
| 7 : $P_{552} = (5, 16, 1, 0)$ lies on line ℓ_7 | 43 : $P_{3049} = (8, 30, 1, 1)$ lies on line ℓ_4 |
| 8 : $P_{600} = (21, 17, 1, 0)$ lies on line ℓ_8 | 44 : $P_{3058} = (17, 30, 1, 1)$ lies on line ℓ_0 |
| 9 : $P_{689} = (14, 20, 1, 0)$ lies on line ℓ_9 | 45 : $P_{3116} = (11, 0, 2, 1)$ lies on line ℓ_{11} |
| 10 : $P_{758} = (19, 22, 1, 0)$ lies on line ℓ_{10} | 46 : $P_{3174} = (5, 2, 2, 1)$ lies on line ℓ_8 |
| 11 : $P_{843} = (8, 25, 1, 0)$ lies on line ℓ_{11} | 47 : $P_{3314} = (17, 6, 2, 1)$ lies on line ℓ_{13} |
| 12 : $P_{890} = (23, 26, 1, 0)$ lies on line ℓ_{12} | 48 : $P_{3399} = (6, 9, 2, 1)$ lies on line ℓ_3 |
| 13 : $P_{911} = (12, 27, 1, 0)$ lies on line ℓ_{13} | 49 : $P_{3412} = (19, 9, 2, 1)$ lies on line ℓ_5 |
| 14 : $P_{993} = (30, 29, 1, 0)$ lies on line ℓ_{14} | 50 : $P_{3434} = (9, 10, 2, 1)$ lies on line ℓ_{14} |
| 15 : $P_{1162} = (8, 3, 0, 1)$ lies on line ℓ_3 | 51 : $P_{3449} = (24, 10, 2, 1)$ lies on line ℓ_9 |
| 16 : $P_{1228} = (10, 5, 0, 1)$ lies on line ℓ_8 | 52 : $P_{3767} = (22, 20, 2, 1)$ lies on line ℓ_4 |
| 17 : $P_{1286} = (4, 7, 0, 1)$ lies on line ℓ_9 | 53 : $P_{3791} = (14, 21, 2, 1)$ lies on line ℓ_{10} |
| 18 : $P_{1300} = (18, 7, 0, 1)$ lies on line ℓ_6 | 54 : $P_{3899} = (26, 24, 2, 1)$ lies on line ℓ_0 |
| 19 : $P_{1472} = (30, 12, 0, 1)$ lies on line ℓ_{12} | 55 : $P_{4007} = (6, 28, 2, 1)$ lies on line ℓ_1 |
| 20 : $P_{1616} = (14, 17, 0, 1)$ lies on line ℓ_5 | 56 : $P_{4106} = (9, 31, 2, 1)$ lies on line ℓ_2 |
| 21 : $P_{1739} = (9, 21, 0, 1)$ lies on line ℓ_{13} | 57 : $P_{4254} = (29, 3, 3, 1)$ lies on line ℓ_{10} |
| 22 : $P_{1746} = (16, 21, 0, 1)$ lies on line ℓ_{14} | 58 : $P_{4304} = (15, 5, 3, 1)$ lies on line ℓ_5 |
| 23 : $P_{1809} = (15, 23, 0, 1)$ lies on line ℓ_2 | 59 : $P_{4355} = (2, 7, 3, 1)$ lies on line ℓ_{12} |
| 24 : $P_{1821} = (27, 23, 0, 1)$ lies on line ℓ_{11} | 60 : $P_{4514} = (1, 12, 3, 1)$ lies on line ℓ_3 |
| 25 : $P_{1828} = (2, 24, 0, 1)$ lies on line ℓ_4 | 61 : $P_{4561} = (16, 13, 3, 1)$ lies on line ℓ_7 |
| 26 : $P_{1857} = (31, 24, 0, 1)$ lies on line ℓ_7 | 62 : $P_{4645} = (4, 16, 3, 1)$ lies on line ℓ_6 |
| 27 : $P_{1909} = (19, 26, 0, 1)$ lies on line ℓ_1 | 63 : $P_{4733} = (28, 18, 3, 1)$ lies on line ℓ_4 |
| 28 : $P_{1965} = (11, 28, 0, 1)$ lies on line ℓ_0 | 64 : $P_{4753} = (16, 19, 3, 1)$ lies on line ℓ_8 |
| 29 : $P_{1967} = (13, 28, 0, 1)$ lies on line ℓ_{10} | 65 : $P_{4888} = (23, 23, 3, 1)$ lies on line ℓ_{14} |
| 30 : $P_{2288} = (15, 6, 1, 1)$ lies on line ℓ_3 | 66 : $P_{4932} = (3, 25, 3, 1)$ lies on line ℓ_{11} |
| 31 : $P_{2351} = (14, 8, 1, 1)$ lies on line ℓ_{14} | 67 : $P_{4961} = (0, 26, 3, 1)$ lies on line ℓ_0 |
| 32 : $P_{2363} = (26, 8, 1, 1)$ lies on line ℓ_7 | 68 : $P_{5003} = (10, 27, 3, 1)$ lies on line ℓ_2 |
| 33 : $P_{2404} = (3, 10, 1, 1)$ lies on line ℓ_6 | 69 : $P_{5086} = (29, 29, 3, 1)$ lies on line ℓ_{13} |
| 34 : $P_{2431} = (30, 10, 1, 1)$ lies on line ℓ_{10} | 70 : $P_{5111} = (22, 30, 3, 1)$ lies on line ℓ_9 |
| 35 : $P_{2534} = (5, 14, 1, 1)$ lies on line ℓ_{13} | 71 : $P_{5151} = (30, 31, 3, 1)$ lies on line ℓ_1 |

72 : $P_{5168} = (15, 0, 4, 1)$ lies on line ℓ_4
 73 : $P_{5298} = (17, 4, 4, 1)$ lies on line ℓ_5
 74 : $P_{5380} = (3, 7, 4, 1)$ lies on line ℓ_2
 75 : $P_{5513} = (8, 11, 4, 1)$ lies on line ℓ_{12}
 76 : $P_{5525} = (20, 11, 4, 1)$ lies on line ℓ_8
 77 : $P_{5608} = (7, 14, 4, 1)$ lies on line ℓ_{14}
 78 : $P_{5612} = (11, 14, 4, 1)$ lies on line ℓ_{10}
 79 : $P_{5740} = (11, 18, 4, 1)$ lies on line ℓ_7
 80 : $P_{5805} = (12, 20, 4, 1)$ lies on line ℓ_0
 81 : $P_{5909} = (20, 23, 4, 1)$ lies on line ℓ_3
 82 : $P_{6079} = (30, 28, 4, 1)$ lies on line ℓ_{11}
 83 : $P_{6106} = (25, 29, 4, 1)$ lies on line ℓ_9
 84 : $P_{6255} = (14, 2, 5, 1)$ lies on line ℓ_7
 85 : $P_{6273} = (0, 3, 5, 1)$ lies on line ℓ_2
 86 : $P_{6359} = (22, 5, 5, 1)$ lies on line ℓ_{11}
 87 : $P_{6374} = (5, 6, 5, 1)$ lies on line ℓ_4
 88 : $P_{6446} = (13, 8, 5, 1)$ lies on line ℓ_5
 89 : $P_{6488} = (23, 9, 5, 1)$ lies on line ℓ_9
 90 : $P_{6609} = (16, 13, 5, 1)$ lies on line ℓ_{13}
 91 : $P_{6752} = (31, 17, 5, 1)$ lies on line ℓ_{12}
 92 : $P_{6772} = (19, 18, 5, 1)$ lies on line ℓ_3
 93 : $P_{6810} = (25, 19, 5, 1)$ lies on line ℓ_{14}
 94 : $P_{6853} = (4, 21, 5, 1)$ lies on line ℓ_1
 95 : $P_{6903} = (22, 22, 5, 1)$ lies on line ℓ_0
 96 : $P_{6969} = (24, 24, 5, 1)$ lies on line ℓ_{10}
 97 : $P_{7010} = (1, 26, 5, 1)$ lies on line ℓ_8
 98 : $P_{7054} = (13, 27, 5, 1)$ lies on line ℓ_6
 99 : $P_{7365} = (4, 5, 6, 1)$ lies on line ℓ_{13}
 100 : $P_{7433} = (8, 7, 6, 1)$ lies on line ℓ_{10}
 101 : $P_{7567} = (14, 11, 6, 1)$ lies on line ℓ_{11}
 102 : $P_{7686} = (5, 15, 6, 1)$ lies on line ℓ_2
 103 : $P_{7718} = (5, 16, 6, 1)$ lies on line ℓ_9
 104 : $P_{7722} = (9, 16, 6, 1)$ lies on line ℓ_1
 105 : $P_{7742} = (29, 16, 6, 1)$ lies on line ℓ_0
 106 : $P_{7775} = (30, 17, 6, 1)$ lies on line ℓ_{14}
 107 : $P_{7938} = (1, 23, 6, 1)$ lies on line ℓ_7
 108 : $P_{8036} = (3, 26, 6, 1)$ lies on line ℓ_{12}
 109 : $P_{8109} = (12, 28, 6, 1)$ lies on line ℓ_5
 110 : $P_{8155} = (26, 29, 6, 1)$ lies on line ℓ_3
 111 : $P_{8245} = (20, 0, 7, 1)$ lies on line ℓ_{12}
 112 : $P_{8267} = (10, 1, 7, 1)$ lies on line ℓ_6
 113 : $P_{8364} = (11, 4, 7, 1)$ lies on line ℓ_9
 114 : $P_{8453} = (4, 7, 7, 1)$ lies on line ℓ_7
 115 : $P_{8562} = (17, 10, 7, 1)$ lies on line ℓ_4
 116 : $P_{8583} = (6, 11, 7, 1)$ lies on line ℓ_2
 117 : $P_{8609} = (0, 12, 7, 1)$ lies on line ℓ_{14}
 118 : $P_{8753} = (16, 16, 7, 1)$ lies on line ℓ_5
 119 : $P_{8796} = (27, 17, 7, 1)$ lies on line ℓ_{10}
 120 : $P_{8807} = (6, 18, 7, 1)$ lies on line ℓ_{11}
 121 : $P_{8808} = (7, 18, 7, 1)$ lies on line ℓ_0
 122 : $P_{8850} = (17, 19, 7, 1)$ lies on line ℓ_1
 123 : $P_{9022} = (29, 24, 7, 1)$ lies on line ℓ_3
 124 : $P_{9167} = (14, 29, 7, 1)$ lies on line ℓ_8
 125 : $P_{9193} = (8, 30, 7, 1)$ lies on line ℓ_{13}
 126 : $P_{9263} = (14, 0, 8, 1)$ lies on line ℓ_6
 127 : $P_{9298} = (17, 1, 8, 1)$ lies on line ℓ_{11}
 128 : $P_{9326} = (13, 2, 8, 1)$ lies on line ℓ_1
 129 : $P_{9336} = (23, 2, 8, 1)$ lies on line ℓ_{12}
 130 : $P_{9468} = (27, 6, 8, 1)$ lies on line ℓ_{14}
 131 : $P_{9638} = (5, 12, 8, 1)$ lies on line ℓ_0
 132 : $P_{9651} = (18, 12, 8, 1)$ lies on line ℓ_7
 133 : $P_{9689} = (24, 13, 8, 1)$ lies on line ℓ_4
 134 : $P_{9718} = (21, 14, 8, 1)$ lies on line ℓ_3
 135 : $P_{9848} = (23, 18, 8, 1)$ lies on line ℓ_2
 136 : $P_{9863} = (6, 19, 8, 1)$ lies on line ℓ_{13}
 137 : $P_{9980} = (27, 22, 8, 1)$ lies on line ℓ_9
 138 : $P_{10068} = (19, 25, 8, 1)$ lies on line ℓ_8
 139 : $P_{10178} = (1, 29, 8, 1)$ lies on line ℓ_{10}
 140 : $P_{10230} = (21, 30, 8, 1)$ lies on line ℓ_5
 141 : $P_{10326} = (21, 1, 9, 1)$ lies on line ℓ_1
 142 : $P_{10358} = (21, 2, 9, 1)$ lies on line ℓ_9
 143 : $P_{10535} = (6, 8, 9, 1)$ lies on line ℓ_8
 144 : $P_{10539} = (10, 8, 9, 1)$ lies on line ℓ_{13}
 145 : $P_{10720} = (31, 13, 9, 1)$ lies on line ℓ_6
 146 : $P_{10752} = (31, 14, 9, 1)$ lies on line ℓ_0
 147 : $P_{10858} = (9, 18, 9, 1)$ lies on line ℓ_5
 148 : $P_{10997} = (20, 22, 9, 1)$ lies on line ℓ_2
 149 : $P_{11041} = (0, 24, 9, 1)$ lies on line ℓ_{12}
 150 : $P_{11066} = (25, 24, 9, 1)$ lies on line ℓ_{11}
 151 : $P_{11142} = (5, 27, 9, 1)$ lies on line ℓ_{14}
 152 : $P_{11192} = (23, 28, 9, 1)$ lies on line ℓ_7
 153 : $P_{11327} = (30, 0, 10, 1)$ lies on line ℓ_{13}
 154 : $P_{11341} = (12, 1, 10, 1)$ lies on line ℓ_4
 155 : $P_{11449} = (24, 4, 10, 1)$ lies on line ℓ_1
 156 : $P_{11452} = (27, 4, 10, 1)$ lies on line ℓ_3
 157 : $P_{11497} = (8, 6, 10, 1)$ lies on line ℓ_5
 158 : $P_{11573} = (20, 8, 10, 1)$ lies on line ℓ_0
 159 : $P_{11609} = (24, 9, 10, 1)$ lies on line ℓ_7
 160 : $P_{11933} = (28, 19, 10, 1)$ lies on line ℓ_{12}
 161 : $P_{11939} = (2, 20, 10, 1)$ lies on line ℓ_{10}
 162 : $P_{12002} = (1, 22, 10, 1)$ lies on line ℓ_{11}
 163 : $P_{12099} = (2, 25, 10, 1)$ lies on line ℓ_{14}
 164 : $P_{12138} = (9, 26, 10, 1)$ lies on line ℓ_6
 165 : $P_{12146} = (17, 26, 10, 1)$ lies on line ℓ_2
 166 : $P_{12168} = (7, 27, 10, 1)$ lies on line ℓ_9
 167 : $P_{12285} = (28, 30, 10, 1)$ lies on line ℓ_8
 168 : $P_{12381} = (28, 1, 11, 1)$ lies on line ℓ_3
 169 : $P_{12402} = (17, 2, 11, 1)$ lies on line ℓ_{10}
 170 : $P_{12477} = (28, 4, 11, 1)$ lies on line ℓ_{14}
 171 : $P_{12545} = (0, 7, 11, 1)$ lies on line ℓ_1
 172 : $P_{12551} = (6, 7, 11, 1)$ lies on line ℓ_4
 173 : $P_{12620} = (11, 9, 11, 1)$ lies on line ℓ_{12}
 174 : $P_{12655} = (14, 10, 11, 1)$ lies on line ℓ_0
 175 : $P_{12661} = (20, 10, 11, 1)$ lies on line ℓ_5
 176 : $P_{13081} = (24, 23, 11, 1)$ lies on line ℓ_6
 177 : $P_{13150} = (29, 25, 11, 1)$ lies on line ℓ_7
 178 : $P_{13203} = (18, 27, 11, 1)$ lies on line ℓ_{13}
 179 : $P_{13299} = (18, 30, 11, 1)$ lies on line ℓ_2

180 : $P_{13436} = (27, 2, 12, 1)$ lies on line ℓ_2
 181 : $P_{13475} = (2, 4, 12, 1)$ lies on line ℓ_0
 182 : $P_{13506} = (1, 5, 12, 1)$ lies on line ℓ_{12}
 183 : $P_{13543} = (6, 6, 12, 1)$ lies on line ℓ_7
 184 : $P_{13685} = (20, 10, 12, 1)$ lies on line ℓ_{11}
 185 : $P_{13707} = (10, 11, 12, 1)$ lies on line ℓ_5
 186 : $P_{13735} = (6, 12, 12, 1)$ lies on line ℓ_9
 187 : $P_{13795} = (2, 14, 12, 1)$ lies on line ℓ_1
 188 : $P_{13832} = (7, 15, 12, 1)$ lies on line ℓ_{10}
 189 : $P_{13876} = (19, 16, 12, 1)$ lies on line ℓ_{13}
 190 : $P_{13889} = (0, 17, 12, 1)$ lies on line ℓ_6
 191 : $P_{14038} = (21, 21, 12, 1)$ lies on line ℓ_4
 192 : $P_{14094} = (13, 23, 12, 1)$ lies on line ℓ_8
 193 : $P_{14186} = (9, 26, 12, 1)$ lies on line ℓ_3
 194 : $P_{14285} = (12, 29, 12, 1)$ lies on line ℓ_{14}
 195 : $P_{14387} = (18, 0, 13, 1)$ lies on line ℓ_{14}
 196 : $P_{14615} = (22, 7, 13, 1)$ lies on line ℓ_5
 197 : $P_{14752} = (31, 11, 13, 1)$ lies on line ℓ_{13}
 198 : $P_{14811} = (26, 13, 13, 1)$ lies on line ℓ_1
 199 : $P_{15005} = (28, 19, 13, 1)$ lies on line ℓ_{11}
 200 : $P_{15008} = (31, 19, 13, 1)$ lies on line ℓ_4
 201 : $P_{15076} = (3, 22, 13, 1)$ lies on line ℓ_7
 202 : $P_{15145} = (8, 24, 13, 1)$ lies on line ℓ_9
 203 : $P_{15189} = (20, 25, 13, 1)$ lies on line ℓ_{10}
 204 : $P_{15282} = (17, 28, 13, 1)$ lies on line ℓ_6
 205 : $P_{15375} = (14, 31, 13, 1)$ lies on line ℓ_3
 206 : $P_{15383} = (22, 31, 13, 1)$ lies on line ℓ_{12}
 207 : $P_{15412} = (19, 0, 14, 1)$ lies on line ℓ_0
 208 : $P_{15451} = (26, 1, 14, 1)$ lies on line ℓ_9
 209 : $P_{15478} = (21, 2, 14, 1)$ lies on line ℓ_{14}
 210 : $P_{15500} = (11, 3, 14, 1)$ lies on line ℓ_{13}
 211 : $P_{15501} = (12, 3, 14, 1)$ lies on line ℓ_7
 212 : $P_{15589} = (4, 6, 14, 1)$ lies on line ℓ_{10}
 213 : $P_{15672} = (23, 8, 14, 1)$ lies on line ℓ_1
 214 : $P_{15742} = (29, 10, 14, 1)$ lies on line ℓ_2
 215 : $P_{15752} = (7, 11, 14, 1)$ lies on line ℓ_6
 216 : $P_{15907} = (2, 16, 14, 1)$ lies on line ℓ_8
 217 : $P_{15912} = (7, 16, 14, 1)$ lies on line ℓ_3
 218 : $P_{16024} = (23, 19, 14, 1)$ lies on line ℓ_5
 219 : $P_{16043} = (10, 20, 14, 1)$ lies on line ℓ_{12}
 220 : $P_{16194} = (1, 25, 14, 1)$ lies on line ℓ_4
 221 : $P_{16325} = (4, 29, 14, 1)$ lies on line ℓ_{11}
 222 : $P_{16472} = (23, 1, 15, 1)$ lies on line ℓ_8
 223 : $P_{16490} = (9, 2, 15, 1)$ lies on line ℓ_0
 224 : $P_{16557} = (12, 4, 15, 1)$ lies on line ℓ_{11}
 225 : $P_{16631} = (22, 6, 15, 1)$ lies on line ℓ_6
 226 : $P_{16784} = (15, 11, 15, 1)$ lies on line ℓ_1
 227 : $P_{16894} = (29, 14, 15, 1)$ lies on line ℓ_{12}
 228 : $P_{16895} = (30, 14, 15, 1)$ lies on line ℓ_2
 229 : $P_{16952} = (23, 16, 15, 1)$ lies on line ℓ_{10}
 230 : $P_{17034} = (9, 19, 15, 1)$ lies on line ℓ_7
 231 : $P_{17089} = (0, 21, 15, 1)$ lies on line ℓ_3
 232 : $P_{17109} = (20, 21, 15, 1)$ lies on line ℓ_9
 233 : $P_{17192} = (7, 24, 15, 1)$ lies on line ℓ_{13}
 234 : $P_{17472} = (31, 0, 16, 1)$ lies on line ℓ_9
 235 : $P_{17744} = (15, 9, 16, 1)$ lies on line ℓ_6
 236 : $P_{17931} = (10, 15, 16, 1)$ lies on line ℓ_1
 237 : $P_{17950} = (29, 15, 16, 1)$ lies on line ℓ_5
 238 : $P_{17965} = (12, 16, 16, 1)$ lies on line ℓ_{12}
 239 : $P_{18118} = (5, 21, 16, 1)$ lies on line ℓ_7
 240 : $P_{18151} = (6, 22, 16, 1)$ lies on line ℓ_{14}
 241 : $P_{18196} = (19, 23, 16, 1)$ lies on line ℓ_4
 242 : $P_{18238} = (29, 24, 16, 1)$ lies on line ℓ_8
 243 : $P_{18395} = (26, 29, 16, 1)$ lies on line ℓ_2
 244 : $P_{18416} = (15, 30, 16, 1)$ lies on line ℓ_{11}
 245 : $P_{18422} = (21, 30, 16, 1)$ lies on line ℓ_{10}
 246 : $P_{18556} = (27, 2, 17, 1)$ lies on line ℓ_{13}
 247 : $P_{18562} = (1, 3, 17, 1)$ lies on line ℓ_5
 248 : $P_{18623} = (30, 4, 17, 1)$ lies on line ℓ_6
 249 : $P_{18625} = (0, 5, 17, 1)$ lies on line ℓ_7
 250 : $P_{18696} = (7, 7, 17, 1)$ lies on line ℓ_{11}
 251 : $P_{18727} = (6, 8, 17, 1)$ lies on line ℓ_{10}
 252 : $P_{18761} = (8, 9, 17, 1)$ lies on line ℓ_8
 253 : $P_{18812} = (27, 10, 17, 1)$ lies on line ℓ_{12}
 254 : $P_{18841} = (24, 11, 17, 1)$ lies on line ℓ_{14}
 255 : $P_{18867} = (18, 12, 17, 1)$ lies on line ℓ_1
 256 : $P_{19034} = (25, 17, 17, 1)$ lies on line ℓ_4
 257 : $P_{19122} = (17, 20, 17, 1)$ lies on line ℓ_9
 258 : $P_{19290} = (25, 25, 17, 1)$ lies on line ℓ_2
 259 : $P_{19342} = (13, 27, 17, 1)$ lies on line ℓ_0
 260 : $P_{19377} = (16, 28, 17, 1)$ lies on line ℓ_3
 261 : $P_{19528} = (7, 1, 18, 1)$ lies on line ℓ_{12}
 262 : $P_{19824} = (15, 10, 18, 1)$ lies on line ℓ_{13}
 263 : $P_{19908} = (3, 13, 18, 1)$ lies on line ℓ_9
 264 : $P_{20016} = (15, 16, 18, 1)$ lies on line ℓ_7
 265 : $P_{20105} = (8, 19, 18, 1)$ lies on line ℓ_6
 266 : $P_{20122} = (25, 19, 18, 1)$ lies on line ℓ_3
 267 : $P_{20189} = (28, 21, 18, 1)$ lies on line ℓ_2
 268 : $P_{20225} = (0, 23, 18, 1)$ lies on line ℓ_5
 269 : $P_{20247} = (22, 23, 18, 1)$ lies on line ℓ_{10}
 270 : $P_{20360} = (7, 27, 18, 1)$ lies on line ℓ_4
 271 : $P_{20423} = (6, 29, 18, 1)$ lies on line ℓ_0
 272 : $P_{20499} = (18, 31, 18, 1)$ lies on line ℓ_8
 273 : $P_{20523} = (10, 0, 19, 1)$ lies on line ℓ_7
 274 : $P_{20550} = (5, 1, 19, 1)$ lies on line ℓ_{10}
 275 : $P_{20840} = (7, 10, 19, 1)$ lies on line ℓ_1
 276 : $P_{20968} = (7, 14, 19, 1)$ lies on line ℓ_8
 277 : $P_{21048} = (23, 16, 19, 1)$ lies on line ℓ_{11}
 278 : $P_{21060} = (3, 17, 19, 1)$ lies on line ℓ_{13}
 279 : $P_{21088} = (31, 17, 19, 1)$ lies on line ℓ_2
 280 : $P_{21154} = (1, 20, 19, 1)$ lies on line ℓ_{14}
 281 : $P_{21247} = (30, 22, 19, 1)$ lies on line ℓ_3
 282 : $P_{21326} = (13, 25, 19, 1)$ lies on line ℓ_9
 283 : $P_{21393} = (16, 27, 19, 1)$ lies on line ℓ_{12}
 284 : $P_{21405} = (28, 27, 19, 1)$ lies on line ℓ_5
 285 : $P_{21454} = (13, 29, 19, 1)$ lies on line ℓ_4
 286 : $P_{21498} = (25, 30, 19, 1)$ lies on line ℓ_6
 287 : $P_{21533} = (28, 31, 19, 1)$ lies on line ℓ_0

288 : $P_{21638} = (5, 3, 20, 1)$ lies on line ℓ_1
 289 : $P_{21940} = (19, 12, 20, 1)$ lies on line ℓ_{10}
 290 : $P_{21964} = (11, 13, 20, 1)$ lies on line ℓ_3
 291 : $P_{21970} = (17, 13, 20, 1)$ lies on line ℓ_{14}
 292 : $P_{21975} = (22, 13, 20, 1)$ lies on line ℓ_2
 293 : $P_{22047} = (30, 15, 20, 1)$ lies on line ℓ_4
 294 : $P_{22097} = (16, 17, 20, 1)$ lies on line ℓ_0
 295 : $P_{22219} = (10, 21, 20, 1)$ lies on line ℓ_{11}
 296 : $P_{22244} = (3, 22, 20, 1)$ lies on line ℓ_8
 297 : $P_{22299} = (26, 23, 20, 1)$ lies on line ℓ_{12}
 298 : $P_{22306} = (1, 24, 20, 1)$ lies on line ℓ_6
 299 : $P_{22546} = (17, 31, 20, 1)$ lies on line ℓ_7
 300 : $P_{22590} = (29, 0, 21, 1)$ lies on line ℓ_1
 301 : $P_{22607} = (14, 1, 21, 1)$ lies on line ℓ_{13}
 302 : $P_{22807} = (22, 7, 21, 1)$ lies on line ℓ_8
 303 : $P_{22829} = (12, 8, 21, 1)$ lies on line ℓ_3
 304 : $P_{22869} = (20, 9, 21, 1)$ lies on line ℓ_4
 305 : $P_{22870} = (21, 9, 21, 1)$ lies on line ℓ_2
 306 : $P_{22947} = (2, 12, 21, 1)$ lies on line ℓ_{11}
 307 : $P_{22990} = (13, 13, 21, 1)$ lies on line ℓ_{12}
 308 : $P_{23021} = (12, 14, 21, 1)$ lies on line ℓ_9
 309 : $P_{23061} = (20, 15, 21, 1)$ lies on line ℓ_7
 310 : $P_{23088} = (15, 16, 21, 1)$ lies on line ℓ_{14}
 311 : $P_{23179} = (10, 19, 21, 1)$ lies on line ℓ_0
 312 : $P_{23249} = (16, 21, 21, 1)$ lies on line ℓ_6
 313 : $P_{23295} = (30, 22, 21, 1)$ lies on line ℓ_5
 314 : $P_{23393} = (0, 26, 21, 1)$ lies on line ℓ_{10}
 315 : $P_{23655} = (6, 2, 22, 1)$ lies on line ℓ_6
 316 : $P_{23675} = (26, 2, 22, 1)$ lies on line ℓ_{11}
 317 : $P_{23680} = (31, 2, 22, 1)$ lies on line ℓ_5
 318 : $P_{23691} = (10, 3, 22, 1)$ lies on line ℓ_4
 319 : $P_{23794} = (17, 6, 22, 1)$ lies on line ℓ_{12}
 320 : $P_{23814} = (5, 7, 22, 1)$ lies on line ℓ_3
 321 : $P_{23899} = (26, 9, 22, 1)$ lies on line ℓ_{13}
 322 : $P_{24141} = (12, 17, 22, 1)$ lies on line ℓ_8
 323 : $P_{24169} = (8, 18, 22, 1)$ lies on line ℓ_{14}
 324 : $P_{24258} = (1, 21, 22, 1)$ lies on line ℓ_0
 325 : $P_{24351} = (30, 23, 22, 1)$ lies on line ℓ_9
 326 : $P_{24444} = (27, 26, 22, 1)$ lies on line ℓ_7
 327 : $P_{24634} = (25, 0, 23, 1)$ lies on line ℓ_8
 328 : $P_{24660} = (19, 1, 23, 1)$ lies on line ℓ_2
 329 : $P_{24675} = (2, 2, 23, 1)$ lies on line ℓ_3
 330 : $P_{24721} = (16, 3, 23, 1)$ lies on line ℓ_9
 331 : $P_{24769} = (0, 5, 23, 1)$ lies on line ℓ_4
 332 : $P_{24809} = (8, 6, 23, 1)$ lies on line ℓ_1
 333 : $P_{24959} = (30, 10, 23, 1)$ lies on line ℓ_7
 334 : $P_{25060} = (3, 14, 23, 1)$ lies on line ℓ_5
 335 : $P_{25111} = (22, 15, 23, 1)$ lies on line ℓ_{14}
 336 : $P_{25112} = (23, 15, 23, 1)$ lies on line ℓ_6
 337 : $P_{25207} = (22, 18, 23, 1)$ lies on line ℓ_{13}
 338 : $P_{25220} = (3, 19, 23, 1)$ lies on line ℓ_{10}
 339 : $P_{25372} = (27, 23, 23, 1)$ lies on line ℓ_0
 340 : $P_{25491} = (18, 27, 23, 1)$ lies on line ℓ_{11}
 341 : $P_{25511} = (6, 28, 23, 1)$ lies on line ℓ_{12}
 342 : $P_{25639} = (6, 0, 24, 1)$ lies on line ℓ_5
 343 : $P_{25673} = (8, 1, 24, 1)$ lies on line ℓ_7
 344 : $P_{25706} = (9, 2, 24, 1)$ lies on line ℓ_4
 345 : $P_{25765} = (4, 4, 24, 1)$ lies on line ℓ_8
 346 : $P_{25806} = (13, 5, 24, 1)$ lies on line ℓ_{14}
 347 : $P_{25894} = (5, 8, 24, 1)$ lies on line ℓ_{11}
 348 : $P_{25946} = (25, 9, 24, 1)$ lies on line ℓ_0
 349 : $P_{26100} = (19, 14, 24, 1)$ lies on line ℓ_6
 350 : $P_{26177} = (0, 17, 24, 1)$ lies on line ℓ_9
 351 : $P_{26283} = (10, 20, 24, 1)$ lies on line ℓ_3
 352 : $P_{26389} = (20, 23, 24, 1)$ lies on line ℓ_1
 353 : $P_{26403} = (2, 24, 24, 1)$ lies on line ℓ_2
 354 : $P_{26598} = (5, 30, 24, 1)$ lies on line ℓ_{12}
 355 : $P_{26649} = (24, 31, 24, 1)$ lies on line ℓ_{13}
 356 : $P_{26650} = (25, 31, 24, 1)$ lies on line ℓ_{10}
 357 : $P_{26755} = (2, 3, 25, 1)$ lies on line ℓ_6
 358 : $P_{26788} = (3, 4, 25, 1)$ lies on line ℓ_4
 359 : $P_{26803} = (18, 4, 25, 1)$ lies on line ℓ_{12}
 360 : $P_{26805} = (20, 4, 25, 1)$ lies on line ℓ_{13}
 361 : $P_{26831} = (14, 5, 25, 1)$ lies on line ℓ_9
 362 : $P_{26955} = (10, 9, 25, 1)$ lies on line ℓ_{10}
 363 : $P_{27012} = (3, 11, 25, 1)$ lies on line ℓ_0
 364 : $P_{27067} = (26, 12, 25, 1)$ lies on line ℓ_5
 365 : $P_{27309} = (12, 20, 25, 1)$ lies on line ℓ_1
 366 : $P_{27346} = (17, 21, 25, 1)$ lies on line ℓ_8
 367 : $P_{27444} = (19, 24, 25, 1)$ lies on line ℓ_{14}
 368 : $P_{27554} = (1, 28, 25, 1)$ lies on line ℓ_2
 369 : $P_{27788} = (11, 3, 26, 1)$ lies on line ℓ_8
 370 : $P_{27811} = (2, 4, 26, 1)$ lies on line ℓ_7
 371 : $P_{28065} = (0, 12, 26, 1)$ lies on line ℓ_{13}
 372 : $P_{28105} = (8, 13, 26, 1)$ lies on line ℓ_0
 373 : $P_{28158} = (29, 14, 26, 1)$ lies on line ℓ_4
 374 : $P_{28175} = (14, 15, 26, 1)$ lies on line ℓ_{12}
 375 : $P_{28197} = (4, 16, 26, 1)$ lies on line ℓ_2
 376 : $P_{28226} = (1, 17, 26, 1)$ lies on line ℓ_1
 377 : $P_{28341} = (20, 20, 26, 1)$ lies on line ℓ_6
 378 : $P_{28411} = (26, 22, 26, 1)$ lies on line ℓ_{10}
 379 : $P_{28476} = (27, 24, 26, 1)$ lies on line ℓ_5
 380 : $P_{28533} = (20, 26, 26, 1)$ lies on line ℓ_{14}
 381 : $P_{28605} = (28, 28, 26, 1)$ lies on line ℓ_9
 382 : $P_{28645} = (4, 30, 26, 1)$ lies on line ℓ_3
 383 : $P_{28694} = (21, 31, 26, 1)$ lies on line ℓ_{11}
 384 : $P_{28714} = (9, 0, 27, 1)$ lies on line ℓ_{10}
 385 : $P_{28926} = (29, 6, 27, 1)$ lies on line ℓ_{11}
 386 : $P_{28939} = (10, 7, 27, 1)$ lies on line ℓ_{14}
 387 : $P_{28979} = (18, 8, 27, 1)$ lies on line ℓ_9
 388 : $P_{28984} = (23, 8, 27, 1)$ lies on line ℓ_4
 389 : $P_{29203} = (18, 15, 27, 1)$ lies on line ℓ_0
 390 : $P_{29306} = (25, 18, 27, 1)$ lies on line ℓ_1
 391 : $P_{29311} = (30, 18, 27, 1)$ lies on line ℓ_8
 392 : $P_{29402} = (25, 21, 27, 1)$ lies on line ℓ_{12}
 393 : $P_{29453} = (12, 23, 27, 1)$ lies on line ℓ_{13}
 394 : $P_{29510} = (5, 25, 27, 1)$ lies on line ℓ_6
 395 : $P_{29572} = (3, 27, 27, 1)$ lies on line ℓ_3

- 396 : $P_{29751} = (22, 0, 28, 1)$ lies on line ℓ_3
 397 : $P_{29791} = (30, 1, 28, 1)$ lies on line ℓ_0
 398 : $P_{29825} = (0, 3, 28, 1)$ lies on line ℓ_{11}
 399 : $P_{29999} = (14, 8, 28, 1)$ lies on line ℓ_2
 400 : $P_{30075} = (26, 10, 28, 1)$ lies on line ℓ_8
 401 : $P_{30109} = (28, 11, 28, 1)$ lies on line ℓ_7
 402 : $P_{30110} = (29, 11, 28, 1)$ lies on line ℓ_9
 403 : $P_{30176} = (31, 13, 28, 1)$ lies on line ℓ_{10}
 404 : $P_{30426} = (25, 21, 28, 1)$ lies on line ℓ_5
 405 : $P_{30548} = (19, 25, 28, 1)$ lies on line ℓ_{12}
 406 : $P_{30565} = (4, 26, 28, 1)$ lies on line ℓ_4
 407 : $P_{30620} = (27, 27, 28, 1)$ lies on line ℓ_1
 408 : $P_{30638} = (13, 28, 28, 1)$ lies on line ℓ_{13}
 409 : $P_{30715} = (26, 30, 28, 1)$ lies on line ℓ_{14}
 410 : $P_{30750} = (29, 31, 28, 1)$ lies on line ℓ_6
 411 : $P_{30930} = (17, 5, 29, 1)$ lies on line ℓ_3
 412 : $P_{30978} = (1, 7, 29, 1)$ lies on line ℓ_{13}
 413 : $P_{31150} = (13, 12, 29, 1)$ lies on line ℓ_2
 414 : $P_{31341} = (12, 18, 29, 1)$ lies on line ℓ_6
 415 : $P_{31524} = (3, 24, 29, 1)$ lies on line ℓ_1
 416 : $P_{31558} = (5, 25, 29, 1)$ lies on line ℓ_5
 417 : $P_{31593} = (8, 26, 29, 1)$ lies on line ℓ_{11}
 418 : $P_{31629} = (12, 27, 29, 1)$ lies on line ℓ_{10}
 419 : $P_{31632} = (15, 27, 29, 1)$ lies on line ℓ_8
 420 : $P_{31642} = (25, 27, 29, 1)$ lies on line ℓ_7
 421 : $P_{31663} = (14, 28, 29, 1)$ lies on line ℓ_4
 422 : $P_{31764} = (19, 31, 29, 1)$ lies on line ℓ_9
 423 : $P_{31785} = (8, 0, 30, 1)$ lies on line ℓ_2
 424 : $P_{31812} = (3, 1, 30, 1)$ lies on line ℓ_{14}
 425 : $P_{31933} = (28, 4, 30, 1)$ lies on line ℓ_{10}
 426 : $P_{31952} = (15, 5, 30, 1)$ lies on line ℓ_0
 427 : $P_{31963} = (26, 5, 30, 1)$ lies on line ℓ_6
 428 : $P_{31970} = (1, 6, 30, 1)$ lies on line ℓ_9
 429 : $P_{32057} = (24, 8, 30, 1)$ lies on line ℓ_{12}
 430 : $P_{32121} = (24, 10, 30, 1)$ lies on line ℓ_3
 431 : $P_{32197} = (4, 13, 30, 1)$ lies on line ℓ_5
 432 : $P_{32214} = (21, 13, 30, 1)$ lies on line ℓ_8
 433 : $P_{32247} = (22, 14, 30, 1)$ lies on line ℓ_7
 434 : $P_{32278} = (21, 15, 30, 1)$ lies on line ℓ_{13}
 435 : $P_{32433} = (16, 20, 30, 1)$ lies on line ℓ_{11}
 436 : $P_{32497} = (16, 22, 30, 1)$ lies on line ℓ_4
 437 : $P_{32719} = (14, 29, 30, 1)$ lies on line ℓ_1
 438 : $P_{32857} = (24, 1, 31, 1)$ lies on line ℓ_5
 439 : $P_{32940} = (11, 4, 31, 1)$ lies on line ℓ_2
 440 : $P_{33046} = (21, 7, 31, 1)$ lies on line ℓ_0
 441 : $P_{33068} = (11, 8, 31, 1)$ lies on line ℓ_6
 442 : $P_{33241} = (24, 13, 31, 1)$ lies on line ℓ_{11}
 443 : $P_{33312} = (31, 15, 31, 1)$ lies on line ℓ_3
 444 : $P_{33339} = (26, 16, 31, 1)$ lies on line ℓ_4
 445 : $P_{33466} = (25, 20, 31, 1)$ lies on line ℓ_{13}
 446 : $P_{33697} = (0, 28, 31, 1)$ lies on line ℓ_8
 447 : $P_{33726} = (29, 28, 31, 1)$ lies on line ℓ_{14}
 448 : $P_{33780} = (19, 30, 31, 1)$ lies on line ℓ_7
 449 : $P_{33783} = (22, 30, 31, 1)$ lies on line ℓ_1

The single points on the surface are:

Points on surface but on no line

The surface has 720 points not on any line:

The points on the surface but not on lines are:

- 0 : $P_{36} = (1, 0, 1, 0)$
 1 : $P_{112} = (13, 2, 1, 0)$
 2 : $P_{120} = (21, 2, 1, 0)$
 3 : $P_{190} = (27, 4, 1, 0)$
 4 : $P_{191} = (28, 4, 1, 0)$
 5 : $P_{281} = (22, 7, 1, 0)$
 6 : $P_{302} = (11, 8, 1, 0)$
 7 : $P_{351} = (28, 9, 1, 0)$
 8 : $P_{370} = (15, 10, 1, 0)$
 9 : $P_{410} = (23, 11, 1, 0)$
 10 : $P_{455} = (4, 13, 1, 0)$
 11 : $P_{475} = (24, 13, 1, 0)$
 12 : $P_{514} = (31, 14, 1, 0)$
 13 : $P_{539} = (24, 15, 1, 0)$
 14 : $P_{549} = (2, 16, 1, 0)$
 15 : $P_{570} = (23, 16, 1, 0)$
 16 : $P_{632} = (21, 18, 1, 0)$
 17 : $P_{652} = (9, 19, 1, 0)$
 18 : $P_{732} = (25, 21, 1, 0)$
 19 : $P_{791} = (20, 23, 1, 0)$
 20 : $P_{832} = (29, 24, 1, 0)$
 21 : $P_{906} = (7, 27, 1, 0)$
 22 : $P_{915} = (16, 27, 1, 0)$
 23 : $P_{937} = (6, 28, 1, 0)$
 24 : $P_{1013} = (18, 30, 1, 0)$
 25 : $P_{1034} = (7, 31, 1, 0)$
 26 : $P_{1090} = (0, 1, 0, 1)$
 27 : $P_{1127} = (5, 2, 0, 1)$
 28 : $P_{1177} = (23, 3, 0, 1)$
 29 : $P_{1183} = (29, 3, 0, 1)$
 30 : $P_{1203} = (17, 4, 0, 1)$
 31 : $P_{1240} = (22, 5, 0, 1)$

32 : $P_{1242} = (24, 5, 0, 1)$	86 : $P_{3866} = (25, 23, 2, 1)$
33 : $P_{1298} = (16, 7, 0, 1)$	87 : $P_{3906} = (1, 25, 2, 1)$
34 : $P_{1359} = (13, 9, 0, 1)$	88 : $P_{3959} = (22, 26, 2, 1)$
35 : $P_{1437} = (27, 11, 0, 1)$	89 : $P_{4067} = (2, 30, 2, 1)$
36 : $P_{1448} = (6, 12, 0, 1)$	90 : $P_{4134} = (5, 0, 3, 1)$
37 : $P_{1463} = (21, 12, 0, 1)$	91 : $P_{4180} = (19, 1, 3, 1)$
38 : $P_{1500} = (26, 13, 0, 1)$	92 : $P_{4233} = (8, 3, 3, 1)$
39 : $P_{1540} = (2, 15, 0, 1)$	93 : $P_{4248} = (23, 3, 3, 1)$
40 : $P_{1582} = (12, 16, 0, 1)$	94 : $P_{4306} = (17, 5, 3, 1)$
41 : $P_{1609} = (7, 17, 0, 1)$	95 : $P_{4315} = (26, 5, 3, 1)$
42 : $P_{1627} = (25, 17, 0, 1)$	96 : $P_{4321} = (0, 6, 3, 1)$
43 : $P_{1650} = (16, 18, 0, 1)$	97 : $P_{4328} = (7, 6, 3, 1)$
44 : $P_{1743} = (13, 21, 0, 1)$	98 : $P_{4377} = (24, 7, 3, 1)$
45 : $P_{1796} = (2, 23, 0, 1)$	99 : $P_{4381} = (28, 7, 3, 1)$
46 : $P_{1830} = (4, 24, 0, 1)$	100 : $P_{4393} = (8, 8, 3, 1)$
47 : $P_{1910} = (20, 26, 0, 1)$	101 : $P_{4455} = (6, 10, 3, 1)$
48 : $P_{1918} = (28, 26, 0, 1)$	102 : $P_{4770} = (1, 20, 3, 1)$
49 : $P_{1925} = (3, 27, 0, 1)$	103 : $P_{4861} = (28, 22, 3, 1)$
50 : $P_{1981} = (27, 28, 0, 1)$	104 : $P_{4923} = (26, 24, 3, 1)$
51 : $P_{2054} = (4, 31, 0, 1)$	105 : $P_{4943} = (14, 25, 3, 1)$
52 : $P_{2082} = (0, 0, 1, 1)$	106 : $P_{4950} = (21, 25, 3, 1)$
53 : $P_{2083} = (1, 0, 1, 1)$	107 : $P_{4988} = (27, 26, 3, 1)$
54 : $P_{2114} = (0, 1, 1, 1)$	108 : $P_{4994} = (1, 27, 3, 1)$
55 : $P_{2194} = (17, 3, 1, 1)$	109 : $P_{5010} = (17, 27, 3, 1)$
56 : $P_{2253} = (12, 5, 1, 1)$	110 : $P_{5044} = (19, 28, 3, 1)$
57 : $P_{2308} = (3, 7, 1, 1)$	111 : $P_{5073} = (16, 29, 3, 1)$
58 : $P_{2366} = (29, 8, 1, 1)$	112 : $P_{5074} = (17, 29, 3, 1)$
59 : $P_{2423} = (22, 10, 1, 1)$	113 : $P_{5108} = (19, 30, 3, 1)$
60 : $P_{2468} = (3, 12, 1, 1)$	114 : $P_{5115} = (26, 30, 3, 1)$
61 : $P_{2554} = (25, 14, 1, 1)$	115 : $P_{5121} = (0, 31, 3, 1)$
62 : $P_{2651} = (26, 17, 1, 1)$	116 : $P_{5201} = (16, 1, 4, 1)$
63 : $P_{2709} = (20, 19, 1, 1)$	117 : $P_{5274} = (25, 3, 4, 1)$
64 : $P_{2758} = (5, 21, 1, 1)$	118 : $P_{5320} = (7, 5, 4, 1)$
65 : $P_{2829} = (12, 23, 1, 1)$	119 : $P_{5346} = (1, 6, 4, 1)$
66 : $P_{2875} = (26, 24, 1, 1)$	120 : $P_{5478} = (5, 10, 4, 1)$
67 : $P_{2918} = (5, 26, 1, 1)$	121 : $P_{5527} = (22, 11, 4, 1)$
68 : $P_{2994} = (17, 28, 1, 1)$	122 : $P_{5565} = (28, 12, 4, 1)$
69 : $P_{3047} = (6, 30, 1, 1)$	123 : $P_{5572} = (3, 13, 4, 1)$
70 : $P_{3141} = (4, 1, 2, 1)$	124 : $P_{5604} = (3, 14, 4, 1)$
71 : $P_{3225} = (24, 3, 2, 1)$	125 : $P_{5640} = (7, 15, 4, 1)$
72 : $P_{3246} = (13, 4, 2, 1)$	126 : $P_{5692} = (27, 16, 4, 1)$
73 : $P_{3270} = (5, 5, 2, 1)$	127 : $P_{5714} = (17, 17, 4, 1)$
74 : $P_{3339} = (10, 7, 2, 1)$	128 : $P_{5765} = (4, 19, 4, 1)$
75 : $P_{3364} = (3, 8, 2, 1)$	129 : $P_{5839} = (14, 21, 4, 1)$
76 : $P_{3422} = (29, 9, 2, 1)$	130 : $P_{5927} = (6, 24, 4, 1)$
77 : $P_{3451} = (26, 10, 2, 1)$	131 : $P_{5932} = (11, 24, 4, 1)$
78 : $P_{3481} = (24, 11, 2, 1)$	132 : $P_{5941} = (20, 24, 4, 1)$
79 : $P_{3511} = (22, 12, 2, 1)$	133 : $P_{6010} = (25, 26, 4, 1)$
80 : $P_{3536} = (15, 13, 2, 1)$	134 : $P_{6048} = (31, 27, 4, 1)$
81 : $P_{3574} = (21, 14, 2, 1)$	135 : $P_{6141} = (28, 30, 4, 1)$
82 : $P_{3643} = (26, 16, 2, 1)$	136 : $P_{6194} = (17, 0, 5, 1)$
83 : $P_{3670} = (21, 17, 2, 1)$	137 : $P_{6217} = (8, 1, 5, 1)$
84 : $P_{3847} = (6, 23, 2, 1)$	138 : $P_{6242} = (1, 2, 5, 1)$
85 : $P_{3850} = (9, 23, 2, 1)$	139 : $P_{6253} = (12, 2, 5, 1)$

140 : $P_{6275} = (2, 3, 5, 1)$
 141 : $P_{6347} = (10, 5, 5, 1)$
 142 : $P_{6361} = (24, 5, 5, 1)$
 143 : $P_{6397} = (28, 6, 5, 1)$
 144 : $P_{6399} = (30, 6, 5, 1)$
 145 : $P_{6404} = (3, 7, 5, 1)$
 146 : $P_{6507} = (10, 10, 5, 1)$
 147 : $P_{6645} = (20, 14, 5, 1)$
 148 : $P_{6724} = (3, 17, 5, 1)$
 149 : $P_{6733} = (12, 17, 5, 1)$
 150 : $P_{6753} = (0, 18, 5, 1)$
 151 : $P_{6788} = (3, 19, 5, 1)$
 152 : $P_{6793} = (8, 19, 5, 1)$
 153 : $P_{6817} = (0, 20, 5, 1)$
 154 : $P_{6838} = (21, 20, 5, 1)$
 155 : $P_{6856} = (7, 21, 5, 1)$
 156 : $P_{6872} = (23, 21, 5, 1)$
 157 : $P_{6893} = (12, 22, 5, 1)$
 158 : $P_{6894} = (13, 22, 5, 1)$
 159 : $P_{6921} = (8, 23, 5, 1)$
 160 : $P_{7000} = (23, 25, 5, 1)$
 161 : $P_{7106} = (1, 29, 5, 1)$
 162 : $P_{7263} = (30, 1, 6, 1)$
 163 : $P_{7282} = (17, 2, 6, 1)$
 164 : $P_{7317} = (20, 3, 6, 1)$
 165 : $P_{7350} = (21, 4, 6, 1)$
 166 : $P_{7361} = (0, 5, 6, 1)$
 167 : $P_{7594} = (9, 12, 6, 1)$
 168 : $P_{7616} = (31, 12, 6, 1)$
 169 : $P_{7633} = (16, 13, 6, 1)$
 170 : $P_{7854} = (13, 20, 6, 1)$
 171 : $P_{7887} = (14, 21, 6, 1)$
 172 : $P_{7935} = (30, 22, 6, 1)$
 173 : $P_{7983} = (14, 24, 6, 1)$
 174 : $P_{8006} = (5, 25, 6, 1)$
 175 : $P_{8042} = (9, 26, 6, 1)$
 176 : $P_{8050} = (17, 26, 6, 1)$
 177 : $P_{8088} = (23, 27, 6, 1)$
 178 : $P_{8167} = (6, 30, 6, 1)$
 179 : $P_{8169} = (8, 30, 6, 1)$
 180 : $P_{8178} = (17, 30, 6, 1)$
 181 : $P_{8201} = (8, 31, 6, 1)$
 182 : $P_{8238} = (13, 0, 7, 1)$
 183 : $P_{8249} = (24, 0, 7, 1)$
 184 : $P_{8299} = (10, 2, 7, 1)$
 185 : $P_{8310} = (21, 2, 7, 1)$
 186 : $P_{8317} = (28, 2, 7, 1)$
 187 : $P_{8357} = (4, 4, 7, 1)$
 188 : $P_{8363} = (10, 4, 7, 1)$
 189 : $P_{8436} = (19, 6, 7, 1)$
 190 : $P_{8465} = (16, 7, 7, 1)$
 191 : $P_{8467} = (18, 7, 7, 1)$
 192 : $P_{8559} = (14, 10, 7, 1)$
 193 : $P_{8565} = (20, 10, 7, 1)$

194 : $P_{8578} = (1, 11, 7, 1)$
 195 : $P_{8590} = (13, 11, 7, 1)$
 196 : $P_{8622} = (13, 12, 7, 1)$
 197 : $P_{8661} = (20, 13, 7, 1)$
 198 : $P_{8751} = (14, 16, 7, 1)$
 199 : $P_{8752} = (15, 16, 7, 1)$
 200 : $P_{8819} = (18, 18, 7, 1)$
 201 : $P_{8861} = (28, 19, 7, 1)$
 202 : $P_{8864} = (31, 19, 7, 1)$
 203 : $P_{8868} = (3, 20, 7, 1)$
 204 : $P_{8922} = (25, 21, 7, 1)$
 205 : $P_{8957} = (28, 22, 7, 1)$
 206 : $P_{9191} = (6, 30, 7, 1)$
 207 : $P_{9202} = (17, 30, 7, 1)$
 208 : $P_{9338} = (25, 2, 8, 1)$
 209 : $P_{9411} = (2, 5, 8, 1)$
 210 : $P_{9482} = (9, 7, 8, 1)$
 211 : $P_{9576} = (7, 10, 8, 1)$
 212 : $P_{9659} = (26, 12, 8, 1)$
 213 : $P_{9672} = (7, 13, 8, 1)$
 214 : $P_{9684} = (19, 13, 8, 1)$
 215 : $P_{9736} = (7, 15, 8, 1)$
 216 : $P_{9957} = (4, 22, 8, 1)$
 217 : $P_{9961} = (8, 22, 8, 1)$
 218 : $P_{10014} = (29, 23, 8, 1)$
 219 : $P_{10038} = (21, 24, 8, 1)$
 220 : $P_{10040} = (23, 24, 8, 1)$
 221 : $P_{10044} = (27, 24, 8, 1)$
 222 : $P_{10086} = (5, 26, 8, 1)$
 223 : $P_{10164} = (19, 28, 8, 1)$
 224 : $P_{10214} = (5, 30, 8, 1)$
 225 : $P_{10224} = (15, 30, 8, 1)$
 226 : $P_{10347} = (10, 2, 9, 1)$
 227 : $P_{10365} = (28, 2, 9, 1)$
 228 : $P_{10379} = (10, 3, 9, 1)$
 229 : $P_{10494} = (29, 6, 9, 1)$
 230 : $P_{10499} = (2, 7, 9, 1)$
 231 : $P_{10521} = (24, 7, 9, 1)$
 232 : $P_{10525} = (28, 7, 9, 1)$
 233 : $P_{10534} = (5, 8, 9, 1)$
 234 : $P_{10574} = (13, 9, 9, 1)$
 235 : $P_{10594} = (1, 10, 9, 1)$
 236 : $P_{10614} = (21, 10, 9, 1)$
 237 : $P_{10624} = (31, 10, 9, 1)$
 238 : $P_{10685} = (28, 12, 9, 1)$
 239 : $P_{10702} = (13, 13, 9, 1)$
 240 : $P_{10719} = (30, 13, 9, 1)$
 241 : $P_{10770} = (17, 15, 9, 1)$
 242 : $P_{10847} = (30, 17, 9, 1)$
 243 : $P_{10935} = (22, 20, 9, 1)$
 244 : $P_{10975} = (30, 21, 9, 1)$
 245 : $P_{11110} = (5, 26, 9, 1)$
 246 : $P_{11410} = (17, 3, 10, 1)$
 247 : $P_{11431} = (6, 4, 10, 1)$

248 : $P_{11523} = (2, 7, 10, 1)$	302 : $P_{14109} = (28, 23, 12, 1)$
249 : $P_{11545} = (24, 7, 10, 1)$	303 : $P_{14146} = (1, 25, 12, 1)$
250 : $P_{11549} = (28, 7, 10, 1)$	304 : $P_{14180} = (3, 26, 12, 1)$
251 : $P_{11766} = (21, 14, 10, 1)$	305 : $P_{14194} = (17, 26, 12, 1)$
252 : $P_{11845} = (4, 17, 10, 1)$	306 : $P_{14258} = (17, 28, 12, 1)$
253 : $P_{11922} = (17, 19, 10, 1)$	307 : $P_{14281} = (8, 29, 12, 1)$
254 : $P_{11936} = (31, 19, 10, 1)$	308 : $P_{14297} = (24, 29, 12, 1)$
255 : $P_{11980} = (11, 21, 10, 1)$	309 : $P_{14335} = (30, 30, 12, 1)$
256 : $P_{12041} = (8, 23, 10, 1)$	310 : $P_{14428} = (27, 1, 13, 1)$
257 : $P_{12087} = (22, 24, 10, 1)$	311 : $P_{14450} = (17, 2, 13, 1)$
258 : $P_{12107} = (10, 25, 10, 1)$	312 : $P_{14489} = (24, 3, 13, 1)$
259 : $P_{12113} = (16, 25, 10, 1)$	313 : $P_{14506} = (9, 4, 13, 1)$
260 : $P_{12132} = (3, 26, 10, 1)$	314 : $P_{14549} = (20, 5, 13, 1)$
261 : $P_{12169} = (8, 27, 10, 1)$	315 : $P_{14649} = (24, 8, 13, 1)$
262 : $P_{12182} = (21, 27, 10, 1)$	316 : $P_{14702} = (13, 10, 13, 1)$
263 : $P_{12310} = (21, 31, 10, 1)$	317 : $P_{14781} = (28, 12, 13, 1)$
264 : $P_{12434} = (17, 3, 11, 1)$	318 : $P_{14933} = (20, 17, 13, 1)$
265 : $P_{12463} = (14, 4, 11, 1)$	319 : $P_{14973} = (28, 18, 13, 1)$
266 : $P_{12472} = (23, 4, 11, 1)$	320 : $P_{14994} = (17, 19, 13, 1)$
267 : $P_{12495} = (14, 5, 11, 1)$	321 : $P_{15063} = (22, 21, 13, 1)$
268 : $P_{12658} = (17, 10, 11, 1)$	322 : $P_{15070} = (29, 21, 13, 1)$
269 : $P_{12700} = (27, 11, 11, 1)$	323 : $P_{15072} = (31, 21, 13, 1)$
270 : $P_{12724} = (19, 12, 11, 1)$	324 : $P_{15124} = (19, 23, 13, 1)$
271 : $P_{12770} = (1, 14, 11, 1)$	325 : $P_{15227} = (26, 26, 13, 1)$
272 : $P_{12787} = (18, 14, 11, 1)$	326 : $P_{15237} = (4, 27, 13, 1)$
273 : $P_{12797} = (28, 14, 11, 1)$	327 : $P_{15298} = (1, 29, 13, 1)$
274 : $P_{12983} = (22, 20, 11, 1)$	328 : $P_{15341} = (12, 30, 13, 1)$
275 : $P_{12997} = (4, 21, 11, 1)$	329 : $P_{15367} = (6, 31, 13, 1)$
276 : $P_{13000} = (7, 21, 11, 1)$	330 : $P_{15467} = (10, 2, 14, 1)$
277 : $P_{13016} = (23, 21, 11, 1)$	331 : $P_{15485} = (28, 2, 14, 1)$
278 : $P_{13176} = (23, 26, 11, 1)$	332 : $P_{15494} = (5, 3, 14, 1)$
279 : $P_{13204} = (19, 27, 11, 1)$	333 : $P_{15565} = (12, 5, 14, 1)$
280 : $P_{13212} = (27, 27, 11, 1)$	334 : $P_{15598} = (13, 6, 14, 1)$
281 : $P_{13236} = (19, 28, 11, 1)$	335 : $P_{15599} = (14, 6, 14, 1)$
282 : $P_{13274} = (25, 29, 11, 1)$	336 : $P_{15642} = (25, 7, 14, 1)$
283 : $P_{13325} = (12, 31, 11, 1)$	337 : $P_{15661} = (12, 8, 14, 1)$
284 : $P_{13371} = (26, 0, 12, 1)$	338 : $P_{15667} = (18, 8, 14, 1)$
285 : $P_{13391} = (14, 1, 12, 1)$	339 : $P_{15793} = (16, 12, 14, 1)$
286 : $P_{13539} = (2, 6, 12, 1)$	340 : $P_{15925} = (20, 16, 14, 1)$
287 : $P_{13540} = (3, 6, 12, 1)$	341 : $P_{15997} = (28, 18, 14, 1)$
288 : $P_{13583} = (14, 7, 12, 1)$	342 : $P_{16069} = (4, 21, 14, 1)$
289 : $P_{13679} = (14, 10, 12, 1)$	343 : $P_{16072} = (7, 21, 14, 1)$
290 : $P_{13682} = (17, 10, 12, 1)$	344 : $P_{16088} = (23, 21, 14, 1)$
291 : $P_{13697} = (0, 11, 12, 1)$	345 : $P_{16171} = (10, 24, 14, 1)$
292 : $P_{13750} = (21, 12, 12, 1)$	346 : $P_{16304} = (15, 28, 14, 1)$
293 : $P_{13759} = (30, 12, 12, 1)$	347 : $P_{16381} = (28, 30, 14, 1)$
294 : $P_{13858} = (1, 16, 12, 1)$	348 : $P_{16483} = (2, 2, 15, 1)$
295 : $P_{13860} = (3, 16, 12, 1)$	349 : $P_{16489} = (8, 2, 15, 1)$
296 : $P_{13905} = (16, 17, 12, 1)$	350 : $P_{16537} = (24, 3, 15, 1)$
297 : $P_{13975} = (22, 19, 12, 1)$	351 : $P_{16589} = (12, 5, 15, 1)$
298 : $P_{13992} = (7, 20, 12, 1)$	352 : $P_{16877} = (12, 14, 15, 1)$
299 : $P_{14049} = (0, 22, 12, 1)$	353 : $P_{16899} = (2, 15, 15, 1)$
300 : $P_{14072} = (23, 22, 12, 1)$	354 : $P_{16953} = (24, 16, 15, 1)$
301 : $P_{14088} = (7, 23, 12, 1)$	355 : $P_{16959} = (30, 16, 15, 1)$

356 : $P_{16991} = (30, 17, 15, 1)$
 357 : $P_{17019} = (26, 18, 15, 1)$
 358 : $P_{17127} = (6, 22, 15, 1)$
 359 : $P_{17161} = (8, 23, 15, 1)$
 360 : $P_{17257} = (8, 26, 15, 1)$
 361 : $P_{17329} = (16, 28, 15, 1)$
 362 : $P_{17334} = (21, 28, 15, 1)$
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 364 : $P_{17370} = (25, 29, 15, 1)$
 365 : $P_{17378} = (1, 30, 15, 1)$
 366 : $P_{17386} = (9, 30, 15, 1)$
 367 : $P_{17400} = (23, 30, 15, 1)$
 368 : $P_{17486} = (13, 1, 16, 1)$
 369 : $P_{17523} = (18, 2, 16, 1)$
 370 : $P_{17543} = (6, 3, 16, 1)$
 371 : $P_{17607} = (6, 5, 16, 1)$
 372 : $P_{17680} = (15, 7, 16, 1)$
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 384 : $P_{18310} = (5, 27, 16, 1)$
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 386 : $P_{18406} = (5, 30, 16, 1)$
 387 : $P_{18454} = (21, 31, 16, 1)$
 388 : $P_{18477} = (12, 0, 17, 1)$
 389 : $P_{18507} = (10, 1, 17, 1)$
 390 : $P_{18594} = (1, 4, 17, 1)$
 391 : $P_{18619} = (26, 4, 17, 1)$
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 393 : $P_{18681} = (24, 6, 17, 1)$
 394 : $P_{18726} = (5, 8, 17, 1)$
 395 : $P_{18731} = (10, 8, 17, 1)$
 396 : $P_{18753} = (0, 9, 17, 1)$
 397 : $P_{18854} = (5, 12, 17, 1)$
 398 : $P_{18875} = (26, 12, 17, 1)$
 399 : $P_{18927} = (14, 14, 17, 1)$
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 402 : $P_{19124} = (19, 20, 17, 1)$
 403 : $P_{19128} = (23, 20, 17, 1)$
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 406 : $P_{19243} = (10, 24, 17, 1)$
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 409 : $P_{19382} = (21, 28, 17, 1)$

410 : $P_{19385} = (24, 28, 17, 1)$
 411 : $P_{19393} = (0, 29, 17, 1)$
 412 : $P_{19421} = (28, 29, 17, 1)$
 413 : $P_{19454} = (29, 30, 17, 1)$
 414 : $P_{19663} = (14, 5, 18, 1)$
 415 : $P_{19710} = (29, 6, 18, 1)$
 416 : $P_{19727} = (14, 7, 18, 1)$
 417 : $P_{19746} = (1, 8, 18, 1)$
 418 : $P_{19752} = (7, 8, 18, 1)$
 419 : $P_{19760} = (15, 8, 18, 1)$
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 421 : $P_{19876} = (3, 12, 18, 1)$
 422 : $P_{20015} = (14, 16, 18, 1)$
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 426 : $P_{20100} = (3, 19, 18, 1)$
 427 : $P_{20278} = (21, 24, 18, 1)$
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 431 : $P_{20329} = (8, 26, 18, 1)$
 432 : $P_{20361} = (8, 27, 18, 1)$
 433 : $P_{20374} = (21, 27, 18, 1)$
 434 : $P_{20636} = (27, 3, 19, 1)$
 435 : $P_{20793} = (24, 8, 19, 1)$
 436 : $P_{20889} = (24, 11, 19, 1)$
 437 : $P_{20900} = (3, 12, 19, 1)$
 438 : $P_{20964} = (3, 14, 19, 1)$
 439 : $P_{20972} = (11, 14, 19, 1)$
 440 : $P_{21049} = (24, 16, 19, 1)$
 441 : $P_{21055} = (30, 16, 19, 1)$
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 444 : $P_{21256} = (7, 23, 19, 1)$
 445 : $P_{21262} = (13, 23, 19, 1)$
 446 : $P_{21277} = (28, 23, 19, 1)$
 447 : $P_{21299} = (18, 24, 19, 1)$
 448 : $P_{21399} = (22, 27, 19, 1)$
 449 : $P_{21429} = (20, 28, 19, 1)$
 450 : $P_{21443} = (2, 29, 19, 1)$
 451 : $P_{21460} = (19, 29, 19, 1)$
 452 : $P_{21588} = (19, 1, 20, 1)$
 453 : $P_{21625} = (24, 2, 20, 1)$
 454 : $P_{21644} = (11, 3, 20, 1)$
 455 : $P_{21645} = (12, 3, 20, 1)$
 456 : $P_{21677} = (12, 4, 20, 1)$
 457 : $P_{21726} = (29, 5, 20, 1)$
 458 : $P_{21746} = (17, 6, 20, 1)$
 459 : $P_{21791} = (30, 7, 20, 1)$
 460 : $P_{22077} = (28, 16, 20, 1)$
 461 : $P_{22081} = (0, 17, 20, 1)$
 462 : $P_{22123} = (10, 18, 20, 1)$
 463 : $P_{22155} = (10, 19, 20, 1)$

464 : $P_{22157} = (12, 19, 20, 1)$
 465 : $P_{22165} = (20, 19, 20, 1)$
 466 : $P_{22356} = (19, 25, 20, 1)$
 467 : $P_{22380} = (11, 26, 20, 1)$
 468 : $P_{22387} = (18, 26, 20, 1)$
 469 : $P_{22414} = (13, 27, 20, 1)$
 470 : $P_{22463} = (30, 28, 20, 1)$
 471 : $P_{22492} = (27, 29, 20, 1)$
 472 : $P_{22568} = (7, 0, 21, 1)$
 473 : $P_{22588} = (27, 0, 21, 1)$
 474 : $P_{22703} = (14, 4, 21, 1)$
 475 : $P_{22712} = (23, 4, 21, 1)$
 476 : $P_{22717} = (28, 4, 21, 1)$
 477 : $P_{22835} = (18, 8, 21, 1)$
 478 : $P_{22840} = (23, 8, 21, 1)$
 479 : $P_{22858} = (9, 9, 21, 1)$
 480 : $P_{23007} = (30, 13, 21, 1)$
 481 : $P_{23008} = (31, 13, 21, 1)$
 482 : $P_{23038} = (29, 14, 21, 1)$
 483 : $P_{23039} = (30, 14, 21, 1)$
 484 : $P_{23042} = (1, 15, 21, 1)$
 485 : $P_{23068} = (27, 15, 21, 1)$
 486 : $P_{23087} = (14, 16, 21, 1)$
 487 : $P_{23089} = (16, 16, 21, 1)$
 488 : $P_{23181} = (12, 19, 21, 1)$
 489 : $P_{23189} = (20, 19, 21, 1)$
 490 : $P_{23209} = (8, 20, 21, 1)$
 491 : $P_{23242} = (9, 21, 21, 1)$
 492 : $P_{23246} = (13, 21, 21, 1)$
 493 : $P_{23384} = (23, 25, 21, 1)$
 494 : $P_{23420} = (27, 26, 21, 1)$
 495 : $P_{23454} = (29, 27, 21, 1)$
 496 : $P_{23463} = (6, 28, 21, 1)$
 497 : $P_{23494} = (5, 29, 21, 1)$
 498 : $P_{23627} = (10, 1, 22, 1)$
 499 : $P_{23715} = (2, 4, 22, 1)$
 500 : $P_{23756} = (11, 5, 22, 1)$
 501 : $P_{23776} = (31, 5, 22, 1)$
 502 : $P_{23908} = (3, 10, 22, 1)$
 503 : $P_{23927} = (22, 10, 22, 1)$
 504 : $P_{23935} = (30, 10, 22, 1)$
 505 : $P_{23967} = (30, 11, 22, 1)$
 506 : $P_{23994} = (25, 12, 22, 1)$
 507 : $P_{24004} = (3, 13, 22, 1)$
 508 : $P_{24118} = (21, 16, 22, 1)$
 509 : $P_{24132} = (3, 17, 22, 1)$
 510 : $P_{24160} = (31, 17, 22, 1)$
 511 : $P_{24235} = (10, 20, 22, 1)$
 512 : $P_{24361} = (8, 24, 22, 1)$
 513 : $P_{24389} = (4, 25, 22, 1)$
 514 : $P_{24417} = (0, 26, 22, 1)$
 515 : $P_{24473} = (24, 27, 22, 1)$
 516 : $P_{24489} = (8, 28, 22, 1)$
 517 : $P_{24539} = (26, 29, 22, 1)$

518 : $P_{24613} = (4, 0, 23, 1)$
 519 : $P_{24637} = (28, 0, 23, 1)$
 520 : $P_{24681} = (8, 2, 23, 1)$
 521 : $P_{24682} = (9, 2, 23, 1)$
 522 : $P_{24762} = (25, 4, 23, 1)$
 523 : $P_{24773} = (4, 5, 23, 1)$
 524 : $P_{24932} = (3, 10, 23, 1)$
 525 : $P_{24951} = (22, 10, 23, 1)$
 526 : $P_{25032} = (7, 13, 23, 1)$
 527 : $P_{25044} = (19, 13, 23, 1)$
 528 : $P_{25049} = (24, 13, 23, 1)$
 529 : $P_{25064} = (7, 14, 23, 1)$
 530 : $P_{25068} = (11, 14, 23, 1)$
 531 : $P_{25104} = (15, 15, 23, 1)$
 532 : $P_{25186} = (1, 18, 23, 1)$
 533 : $P_{25189} = (4, 18, 23, 1)$
 534 : $P_{25225} = (8, 19, 23, 1)$
 535 : $P_{25242} = (25, 19, 23, 1)$
 536 : $P_{25256} = (7, 20, 23, 1)$
 537 : $P_{25327} = (14, 22, 23, 1)$
 538 : $P_{25347} = (2, 23, 23, 1)$
 539 : $P_{25360} = (15, 23, 23, 1)$
 540 : $P_{25406} = (29, 24, 23, 1)$
 541 : $P_{25421} = (12, 25, 23, 1)$
 542 : $P_{25492} = (19, 27, 23, 1)$
 543 : $P_{25500} = (27, 27, 23, 1)$
 544 : $P_{25649} = (16, 0, 24, 1)$
 545 : $P_{25656} = (23, 0, 24, 1)$
 546 : $P_{25699} = (2, 2, 24, 1)$
 547 : $P_{25705} = (8, 2, 24, 1)$
 548 : $P_{25771} = (10, 4, 24, 1)$
 549 : $P_{25772} = (11, 4, 24, 1)$
 550 : $P_{25851} = (26, 6, 24, 1)$
 551 : $P_{25879} = (22, 7, 24, 1)$
 552 : $P_{25895} = (6, 8, 24, 1)$
 553 : $P_{25899} = (10, 8, 24, 1)$
 554 : $P_{25922} = (1, 9, 24, 1)$
 555 : $P_{25937} = (16, 9, 24, 1)$
 556 : $P_{26086} = (5, 14, 24, 1)$
 557 : $P_{26106} = (25, 14, 24, 1)$
 558 : $P_{26151} = (6, 16, 24, 1)$
 559 : $P_{26193} = (16, 17, 24, 1)$
 560 : $P_{26405} = (4, 24, 24, 1)$
 561 : $P_{26432} = (31, 24, 24, 1)$
 562 : $P_{26463} = (30, 25, 24, 1)$
 563 : $P_{26504} = (7, 27, 24, 1)$
 564 : $P_{26505} = (8, 27, 24, 1)$
 565 : $P_{26518} = (21, 27, 24, 1)$
 566 : $P_{26582} = (21, 29, 24, 1)$
 567 : $P_{26608} = (15, 30, 24, 1)$
 568 : $P_{26614} = (21, 30, 24, 1)$
 569 : $P_{26656} = (31, 31, 24, 1)$
 570 : $P_{26703} = (14, 1, 25, 1)$
 571 : $P_{26728} = (7, 2, 25, 1)$

572 : $P_{26753} = (0, 3, 25, 1)$	626 : $P_{29228} = (11, 16, 27, 1)$
573 : $P_{26865} = (16, 6, 25, 1)$	627 : $P_{29278} = (29, 17, 27, 1)$
574 : $P_{26891} = (10, 7, 25, 1)$	628 : $P_{29301} = (20, 18, 27, 1)$
575 : $P_{27046} = (5, 12, 25, 1)$	629 : $P_{29339} = (26, 19, 27, 1)$
576 : $P_{27059} = (18, 12, 25, 1)$	630 : $P_{29410} = (1, 22, 27, 1)$
577 : $P_{27101} = (28, 13, 25, 1)$	631 : $P_{29481} = (8, 24, 27, 1)$
578 : $P_{27110} = (5, 14, 25, 1)$	632 : $P_{29560} = (23, 26, 27, 1)$
579 : $P_{27124} = (19, 14, 25, 1)$	633 : $P_{29619} = (18, 28, 27, 1)$
580 : $P_{27130} = (25, 14, 25, 1)$	634 : $P_{29623} = (22, 28, 27, 1)$
581 : $P_{27156} = (19, 15, 25, 1)$	635 : $P_{29626} = (25, 28, 27, 1)$
582 : $P_{27173} = (4, 16, 25, 1)$	636 : $P_{29731} = (2, 0, 28, 1)$
583 : $P_{27216} = (15, 17, 25, 1)$	637 : $P_{29750} = (21, 0, 28, 1)$
584 : $P_{27219} = (18, 17, 25, 1)$	638 : $P_{29815} = (22, 2, 28, 1)$
585 : $P_{27364} = (3, 22, 25, 1)$	639 : $P_{29827} = (2, 3, 28, 1)$
586 : $P_{27403} = (10, 23, 25, 1)$	640 : $P_{29945} = (24, 6, 28, 1)$
587 : $P_{27495} = (6, 26, 25, 1)$	641 : $P_{30011} = (26, 8, 28, 1)$
588 : $P_{27526} = (5, 27, 25, 1)$	642 : $P_{30014} = (29, 8, 28, 1)$
589 : $P_{27599} = (14, 29, 25, 1)$	643 : $P_{30058} = (9, 10, 28, 1)$
590 : $P_{27684} = (3, 0, 26, 1)$	644 : $P_{30073} = (24, 10, 28, 1)$
591 : $P_{27743} = (30, 1, 26, 1)$	645 : $P_{30092} = (11, 11, 28, 1)$
592 : $P_{27782} = (5, 3, 26, 1)$	646 : $P_{30158} = (13, 13, 28, 1)$
593 : $P_{27789} = (12, 3, 26, 1)$	647 : $P_{30175} = (30, 13, 28, 1)$
594 : $P_{27874} = (1, 6, 26, 1)$	648 : $P_{30264} = (23, 16, 28, 1)$
595 : $P_{27962} = (25, 8, 26, 1)$	649 : $P_{30265} = (24, 16, 28, 1)$
596 : $P_{28078} = (13, 12, 26, 1)$	650 : $P_{30271} = (30, 16, 28, 1)$
597 : $P_{28098} = (1, 13, 26, 1)$	651 : $P_{30450} = (17, 22, 28, 1)$
598 : $P_{28102} = (5, 13, 26, 1)$	652 : $P_{30485} = (20, 23, 28, 1)$
599 : $P_{28141} = (12, 14, 26, 1)$	653 : $P_{30611} = (18, 27, 28, 1)$
600 : $P_{28159} = (30, 14, 26, 1)$	654 : $P_{30612} = (19, 27, 28, 1)$
601 : $P_{28161} = (0, 15, 26, 1)$	655 : $P_{30636} = (11, 28, 28, 1)$
602 : $P_{28308} = (19, 19, 26, 1)$	656 : $P_{30652} = (27, 28, 28, 1)$
603 : $P_{28325} = (4, 20, 26, 1)$	657 : $P_{30667} = (10, 29, 28, 1)$
604 : $P_{28326} = (5, 20, 26, 1)$	658 : $P_{30708} = (19, 30, 28, 1)$
605 : $P_{28383} = (30, 21, 26, 1)$	659 : $P_{30711} = (22, 30, 28, 1)$
606 : $P_{28392} = (7, 22, 26, 1)$	660 : $P_{30722} = (1, 31, 28, 1)$
607 : $P_{28395} = (10, 22, 26, 1)$	661 : $P_{30723} = (2, 31, 28, 1)$
608 : $P_{28429} = (12, 23, 26, 1)$	662 : $P_{30793} = (8, 1, 29, 1)$
609 : $P_{28470} = (21, 24, 26, 1)$	663 : $P_{30844} = (27, 2, 29, 1)$
610 : $P_{28472} = (23, 24, 26, 1)$	664 : $P_{30858} = (9, 3, 29, 1)$
611 : $P_{28481} = (0, 25, 26, 1)$	665 : $P_{30864} = (15, 3, 29, 1)$
612 : $P_{28505} = (24, 25, 26, 1)$	666 : $P_{30888} = (7, 4, 29, 1)$
613 : $P_{28532} = (19, 26, 26, 1)$	667 : $P_{30928} = (15, 5, 29, 1)$
614 : $P_{28541} = (28, 26, 26, 1)$	668 : $P_{30939} = (26, 5, 29, 1)$
615 : $P_{28630} = (21, 29, 26, 1)$	669 : $P_{30953} = (8, 6, 29, 1)$
616 : $P_{28739} = (2, 1, 27, 1)$	670 : $P_{31023} = (14, 8, 29, 1)$
617 : $P_{28785} = (16, 2, 27, 1)$	671 : $P_{31035} = (26, 8, 29, 1)$
618 : $P_{28804} = (3, 3, 27, 1)$	672 : $P_{31038} = (29, 8, 29, 1)$
619 : $P_{28845} = (12, 4, 27, 1)$	673 : $P_{31055} = (14, 9, 29, 1)$
620 : $P_{28872} = (7, 5, 27, 1)$	674 : $P_{31137} = (0, 12, 29, 1)$
621 : $P_{28973} = (12, 8, 27, 1)$	675 : $P_{31192} = (23, 13, 29, 1)$
622 : $P_{29016} = (23, 9, 27, 1)$	676 : $P_{31291} = (26, 16, 29, 1)$
623 : $P_{29032} = (7, 10, 27, 1)$	677 : $P_{31319} = (22, 17, 29, 1)$
624 : $P_{29118} = (29, 12, 27, 1)$	678 : $P_{31405} = (12, 20, 29, 1)$
625 : $P_{29180} = (27, 14, 27, 1)$	679 : $P_{31444} = (19, 21, 29, 1)$

680 : $P_{31459} = (2, 22, 29, 1)$	701 : $P_{32933} = (4, 4, 31, 1)$
681 : $P_{31508} = (19, 23, 29, 1)$	702 : $P_{32939} = (10, 4, 31, 1)$
682 : $P_{31919} = (14, 4, 30, 1)$	703 : $P_{32968} = (7, 5, 31, 1)$
683 : $P_{31928} = (23, 4, 30, 1)$	704 : $P_{33092} = (3, 9, 31, 1)$
684 : $P_{31954} = (17, 5, 30, 1)$	705 : $P_{33204} = (19, 12, 31, 1)$
685 : $P_{32015} = (14, 7, 30, 1)$	706 : $P_{33224} = (7, 13, 31, 1)$
686 : $P_{32088} = (23, 9, 30, 1)$	707 : $P_{33236} = (19, 13, 31, 1)$
687 : $P_{32106} = (9, 10, 30, 1)$	708 : $P_{33371} = (26, 17, 31, 1)$
688 : $P_{32123} = (26, 10, 30, 1)$	709 : $P_{33410} = (1, 19, 31, 1)$
689 : $P_{32222} = (29, 13, 30, 1)$	710 : $P_{33420} = (11, 19, 31, 1)$
690 : $P_{32347} = (26, 17, 30, 1)$	711 : $P_{33433} = (24, 19, 31, 1)$
691 : $P_{32408} = (23, 19, 30, 1)$	712 : $P_{33511} = (6, 22, 31, 1)$
692 : $P_{32444} = (27, 20, 30, 1)$	713 : $P_{33544} = (7, 23, 31, 1)$
693 : $P_{32447} = (30, 20, 30, 1)$	714 : $P_{33550} = (13, 23, 31, 1)$
694 : $P_{32455} = (6, 21, 30, 1)$	715 : $P_{33565} = (28, 23, 31, 1)$
695 : $P_{32544} = (31, 23, 30, 1)$	716 : $P_{33579} = (10, 24, 31, 1)$
696 : $P_{32622} = (13, 26, 30, 1)$	717 : $P_{33621} = (20, 25, 31, 1)$
697 : $P_{32689} = (16, 28, 30, 1)$	718 : $P_{33787} = (26, 30, 31, 1)$
698 : $P_{32694} = (21, 28, 30, 1)$	719 : $P_{33797} = (4, 31, 31, 1)$
699 : $P_{32697} = (24, 28, 30, 1)$	
700 : $P_{32907} = (10, 3, 31, 1)$	

Line Intersection Graph

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
0	0	0	1	1	0	0	0	0	1	0	0	0	1	1	1
1	0	0	1	0	0	0	1	0	0	0	1	1	0	1	1
2	1	1	0	0	0	1	0	1	1	0	1	0	0	0	0
3	1	0	0	0	1	0	0	1	0	0	1	1	0	1	0
4	0	0	0	1	0	1	1	0	1	0	1	0	0	0	1
5	0	0	1	0	1	0	0	1	0	1	0	0	0	1	1
6	0	1	0	0	1	0	0	1	1	0	0	0	1	1	0
7	0	0	1	1	0	1	1	0	0	0	0	1	1	0	0
8	1	0	1	0	1	0	1	0	0	1	0	1	0	0	0
9	0	0	0	0	0	1	0	0	1	0	1	1	1	1	0
10	0	1	1	1	1	0	0	0	0	1	0	0	1	0	0
11	0	1	0	1	0	0	0	1	1	1	0	0	0	0	1
12	1	0	0	0	0	0	1	1	0	1	1	0	0	0	1
13	1	1	0	1	0	1	1	0	0	1	0	0	0	0	0
14	1	1	0	0	1	1	0	0	0	0	0	1	1	0	0

Neighbor sets in the line intersection graph:

Line 0 intersects

Line	ℓ_2	ℓ_3	ℓ_8	ℓ_{12}	ℓ_{13}	ℓ_{14}
in point	P_{14585}	P_{18264}	P_{14585}	P_{30853}	P_{18264}	P_{30853}

Line 1 intersects

Line	ℓ_2	ℓ_6	ℓ_{10}	ℓ_{11}	ℓ_{13}	ℓ_{14}
in point	P_{23761}	P_{5885}	P_{23761}	P_{19808}	P_{5885}	P_{19808}

Line 2 intersects

Line	ℓ_0	ℓ_1	ℓ_5	ℓ_7	ℓ_8	ℓ_{10}
in point	P_{14585}	P_{23761}	P_{29352}	P_{29352}	P_{14585}	P_{23761}

Line 3 intersects

Line	ℓ_0	ℓ_4	ℓ_7	ℓ_{10}	ℓ_{11}	ℓ_{13}
in point	P_{18264}	P_{10643}	P_{27214}	P_{10643}	P_{27214}	P_{18264}

Line 4 intersects

Line	ℓ_3	ℓ_5	ℓ_6	ℓ_8	ℓ_{10}	ℓ_{14}
in point	P_{10643}	P_{17420}	P_{7612}	P_{7612}	P_{10643}	P_{17420}

Line 5 intersects

Line	ℓ_2	ℓ_4	ℓ_7	ℓ_9	ℓ_{13}	ℓ_{14}
in point	P_{29352}	P_{17420}	P_{29352}	P_{22371}	P_{22371}	P_{17420}

Line 6 intersects

Line	ℓ_1	ℓ_4	ℓ_7	ℓ_8	ℓ_{12}	ℓ_{13}
in point	P_{5885}	P_{7612}	P_{4054}	P_{7612}	P_{4054}	P_{5885}

Line 7 intersects

Line	ℓ_2	ℓ_3	ℓ_5	ℓ_6	ℓ_{11}	ℓ_{12}
in point	P_{29352}	P_{27214}	P_{29352}	P_{4054}	P_{27214}	P_{4054}

Line 8 intersects

Line	ℓ_0	ℓ_2	ℓ_4	ℓ_6	ℓ_9	ℓ_{11}
in point	P_{14585}	P_{14585}	P_{7612}	P_{7612}	P_{12810}	P_{12810}

Line 9 intersects

Line	ℓ_5	ℓ_8	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}
in point	P_{22371}	P_{12810}	P_{33392}	P_{12810}	P_{33392}	P_{22371}

Line 10 intersects

Line	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_9	ℓ_{12}
in point	P_{23761}	P_{23761}	P_{10643}	P_{10643}	P_{33392}	P_{33392}

Line 11 intersects

Line	ℓ_1	ℓ_3	ℓ_7	ℓ_8	ℓ_9	ℓ_{14}
in point	P_{19808}	P_{27214}	P_{27214}	P_{12810}	P_{12810}	P_{19808}

Line 12 intersects

Line	ℓ_0	ℓ_6	ℓ_7	ℓ_9	ℓ_{10}	ℓ_{14}
in point	P_{30853}	P_{4054}	P_{4054}	P_{33392}	P_{33392}	P_{30853}

Line 13 intersects

Line	ℓ_0	ℓ_1	ℓ_3	ℓ_5	ℓ_6	ℓ_9
in point	P_{18264}	P_{5885}	P_{18264}	P_{22371}	P_{5885}	P_{22371}

Line 14 intersects

Line	ℓ_0	ℓ_1	ℓ_4	ℓ_5	ℓ_{11}	ℓ_{12}
in point	P_{30853}	P_{19808}	P_{17420}	P_{17420}	P_{19808}	P_{30853}

The surface has 1185 points:

Too many to print.