

Rank-73987 over GF(32)

January 15, 2021

The equation

The equation of the surface is :

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

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

The point rank of the equation over GF(32) is 1108378661

General information

Number of lines	5
Number of points	1089
Number of singular points	3
Number of Eckardt points	1
Number of double points	4
Number of single points	154
Number of points off lines	930
Number of Hesse planes	0
Number of axes	0
Type of points on lines	33^5
Type of lines on points	$3, 2^4, 1^{154}, 0^{930}$

Singular Points

The surface has 3 singular points:

$$0 : P_0 = \mathbf{P}(1, 0, 0, 0) = \mathbf{P}(1, 0, 0, 0)$$

$$2 : P_5 = \mathbf{P}(1, 1, 0, 0) = \mathbf{P}(1, 1, 0, 0)$$

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

The 5 Lines

The lines and their Pluecker coordinates are:

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

$$\begin{aligned}
\ell_1 &= \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1024} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1024} = \mathbf{PI}(0, 0, 1, 0, 0, 0)_2 \\
\ell_2 &= \begin{bmatrix} 1 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{2081} = \begin{bmatrix} 1 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{2081} = \mathbf{PI}(0, 0, 1, 0, 0, 1)_{34912} \\
\ell_3 &= \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1082400} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1082400} = \mathbf{PI}(0, 0, 0, 1, 0, 0)_{65} \\
\ell_4 &= \begin{bmatrix} 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1083424} = \begin{bmatrix} 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1083424} = \mathbf{PI}(0, 1, 0, 0, 0, 0)_1
\end{aligned}$$

Rank of lines: (0, 1024, 2081, 1082400, 1083424)

Rank of points on Klein quadric: (0, 2, 34912, 65, 1)

Eckardt Points

The surface has 1 Eckardt points:

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

Double Points

The surface has 4 Double points:

The double points on the surface are:

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

$$P_5 = (1, 1, 0, 0) = \ell_0 \cap \ell_2$$

$$P_1 = (0, 1, 0, 0) = \ell_0 \cap \ell_3$$

$$P_3 = (0, 0, 0, 1) = \ell_3 \cap \ell_4$$

Single Points

The surface has 154 single points:

The single points on the surface are:

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

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

$$2 : P_8 = (4, 1, 0, 0) \text{ lies on line } \ell_0$$

$$3 : P_9 = (5, 1, 0, 0) \text{ lies on line } \ell_0$$

$$4 : P_{10} = (6, 1, 0, 0) \text{ lies on line } \ell_0$$

$$5 : P_{11} = (7, 1, 0, 0) \text{ lies on line } \ell_0$$

$$6 : P_{12} = (8, 1, 0, 0) \text{ lies on line } \ell_0$$

$$7 : P_{13} = (9, 1, 0, 0) \text{ lies on line } \ell_0$$

$$8 : P_{14} = (10, 1, 0, 0) \text{ lies on line } \ell_0$$

$$9 : P_{15} = (11, 1, 0, 0) \text{ lies on line } \ell_0$$

$$10 : P_{16} = (12, 1, 0, 0) \text{ lies on line } \ell_0$$

$$11 : P_{17} = (13, 1, 0, 0) \text{ lies on line } \ell_0$$

$$12 : P_{18} = (14, 1, 0, 0) \text{ lies on line } \ell_0$$

$$13 : P_{19} = (15, 1, 0, 0) \text{ lies on line } \ell_0$$

$$14 : P_{20} = (16, 1, 0, 0) \text{ lies on line } \ell_0$$

$$15 : P_{21} = (17, 1, 0, 0) \text{ lies on line } \ell_0$$

$$16 : P_{22} = (18, 1, 0, 0) \text{ lies on line } \ell_0$$

$$17 : P_{23} = (19, 1, 0, 0) \text{ lies on line } \ell_0$$

$$18 : P_{24} = (20, 1, 0, 0) \text{ lies on line } \ell_0$$

$$19 : P_{25} = (21, 1, 0, 0) \text{ lies on line } \ell_0$$

$$20 : P_{26} = (22, 1, 0, 0) \text{ lies on line } \ell_0$$

$$21 : P_{27} = (23, 1, 0, 0) \text{ lies on line } \ell_0$$

$$22 : P_{28} = (24, 1, 0, 0) \text{ lies on line } \ell_0$$

$$23 : P_{29} = (25, 1, 0, 0) \text{ lies on line } \ell_0$$

$$24 : P_{30} = (26, 1, 0, 0) \text{ lies on line } \ell_0$$

$$25 : P_{31} = (27, 1, 0, 0) \text{ lies on line } \ell_0$$

$$26 : P_{32} = (28, 1, 0, 0) \text{ lies on line } \ell_0$$

$$27 : P_{33} = (29, 1, 0, 0) \text{ lies on line } \ell_0$$

$$28 : P_{34} = (30, 1, 0, 0) \text{ lies on line } \ell_0$$

$$29 : P_{35} = (31, 1, 0, 0) \text{ lies on line } \ell_0$$

$$30 : P_{36} = (1, 0, 1, 0) \text{ lies on line } \ell_1$$

$$31 : P_{37} = (2, 0, 1, 0) \text{ lies on line } \ell_1$$

$$32 : P_{38} = (3, 0, 1, 0) \text{ lies on line } \ell_1$$

$$33 : P_{39} = (4, 0, 1, 0) \text{ lies on line } \ell_1$$

$$34 : P_{40} = (5, 0, 1, 0) \text{ lies on line } \ell_1$$

$$35 : P_{41} = (6, 0, 1, 0) \text{ lies on line } \ell_1$$

36 : $P_{42} = (7, 0, 1, 0)$ lies on line ℓ_1
 37 : $P_{43} = (8, 0, 1, 0)$ lies on line ℓ_1
 38 : $P_{44} = (9, 0, 1, 0)$ lies on line ℓ_1
 39 : $P_{45} = (10, 0, 1, 0)$ lies on line ℓ_1
 40 : $P_{46} = (11, 0, 1, 0)$ lies on line ℓ_1
 41 : $P_{47} = (12, 0, 1, 0)$ lies on line ℓ_1
 42 : $P_{48} = (13, 0, 1, 0)$ lies on line ℓ_1
 43 : $P_{49} = (14, 0, 1, 0)$ lies on line ℓ_1
 44 : $P_{50} = (15, 0, 1, 0)$ lies on line ℓ_1
 45 : $P_{51} = (16, 0, 1, 0)$ lies on line ℓ_1
 46 : $P_{52} = (17, 0, 1, 0)$ lies on line ℓ_1
 47 : $P_{53} = (18, 0, 1, 0)$ lies on line ℓ_1
 48 : $P_{54} = (19, 0, 1, 0)$ lies on line ℓ_1
 49 : $P_{55} = (20, 0, 1, 0)$ lies on line ℓ_1
 50 : $P_{56} = (21, 0, 1, 0)$ lies on line ℓ_1
 51 : $P_{57} = (22, 0, 1, 0)$ lies on line ℓ_1
 52 : $P_{58} = (23, 0, 1, 0)$ lies on line ℓ_1
 53 : $P_{59} = (24, 0, 1, 0)$ lies on line ℓ_1
 54 : $P_{60} = (25, 0, 1, 0)$ lies on line ℓ_1
 55 : $P_{61} = (26, 0, 1, 0)$ lies on line ℓ_1
 56 : $P_{62} = (27, 0, 1, 0)$ lies on line ℓ_1
 57 : $P_{63} = (28, 0, 1, 0)$ lies on line ℓ_1
 58 : $P_{64} = (29, 0, 1, 0)$ lies on line ℓ_1
 59 : $P_{65} = (30, 0, 1, 0)$ lies on line ℓ_1
 60 : $P_{66} = (31, 0, 1, 0)$ lies on line ℓ_1
 61 : $P_{68} = (1, 1, 1, 0)$ lies on line ℓ_2
 62 : $P_{101} = (2, 2, 1, 0)$ lies on line ℓ_2
 63 : $P_{134} = (3, 3, 1, 0)$ lies on line ℓ_2
 64 : $P_{167} = (4, 4, 1, 0)$ lies on line ℓ_2
 65 : $P_{200} = (5, 5, 1, 0)$ lies on line ℓ_2
 66 : $P_{233} = (6, 6, 1, 0)$ lies on line ℓ_2
 67 : $P_{266} = (7, 7, 1, 0)$ lies on line ℓ_2
 68 : $P_{299} = (8, 8, 1, 0)$ lies on line ℓ_2
 69 : $P_{332} = (9, 9, 1, 0)$ lies on line ℓ_2
 70 : $P_{365} = (10, 10, 1, 0)$ lies on line ℓ_2
 71 : $P_{398} = (11, 11, 1, 0)$ lies on line ℓ_2
 72 : $P_{431} = (12, 12, 1, 0)$ lies on line ℓ_2
 73 : $P_{464} = (13, 13, 1, 0)$ lies on line ℓ_2
 74 : $P_{497} = (14, 14, 1, 0)$ lies on line ℓ_2
 75 : $P_{530} = (15, 15, 1, 0)$ lies on line ℓ_2
 76 : $P_{563} = (16, 16, 1, 0)$ lies on line ℓ_2
 77 : $P_{596} = (17, 17, 1, 0)$ lies on line ℓ_2
 78 : $P_{629} = (18, 18, 1, 0)$ lies on line ℓ_2
 79 : $P_{662} = (19, 19, 1, 0)$ lies on line ℓ_2
 80 : $P_{695} = (20, 20, 1, 0)$ lies on line ℓ_2
 81 : $P_{728} = (21, 21, 1, 0)$ lies on line ℓ_2
 82 : $P_{761} = (22, 22, 1, 0)$ lies on line ℓ_2
 83 : $P_{794} = (23, 23, 1, 0)$ lies on line ℓ_2
 84 : $P_{827} = (24, 24, 1, 0)$ lies on line ℓ_2
 85 : $P_{860} = (25, 25, 1, 0)$ lies on line ℓ_2
 86 : $P_{893} = (26, 26, 1, 0)$ lies on line ℓ_2
 87 : $P_{926} = (27, 27, 1, 0)$ lies on line ℓ_2
 88 : $P_{959} = (28, 28, 1, 0)$ lies on line ℓ_2
 89 : $P_{992} = (29, 29, 1, 0)$ lies on line ℓ_2

90 : $P_{1025} = (30, 30, 1, 0)$ lies on line ℓ_2
 91 : $P_{1058} = (31, 31, 1, 0)$ lies on line ℓ_2
 92 : $P_{1090} = (0, 1, 0, 1)$ lies on line ℓ_3
 93 : $P_{1122} = (0, 2, 0, 1)$ lies on line ℓ_3
 94 : $P_{1154} = (0, 3, 0, 1)$ lies on line ℓ_3
 95 : $P_{1186} = (0, 4, 0, 1)$ lies on line ℓ_3
 96 : $P_{1218} = (0, 5, 0, 1)$ lies on line ℓ_3
 97 : $P_{1250} = (0, 6, 0, 1)$ lies on line ℓ_3
 98 : $P_{1282} = (0, 7, 0, 1)$ lies on line ℓ_3
 99 : $P_{1314} = (0, 8, 0, 1)$ lies on line ℓ_3
 100 : $P_{1346} = (0, 9, 0, 1)$ lies on line ℓ_3
 101 : $P_{1378} = (0, 10, 0, 1)$ lies on line ℓ_3
 102 : $P_{1410} = (0, 11, 0, 1)$ lies on line ℓ_3
 103 : $P_{1442} = (0, 12, 0, 1)$ lies on line ℓ_3
 104 : $P_{1474} = (0, 13, 0, 1)$ lies on line ℓ_3
 105 : $P_{1506} = (0, 14, 0, 1)$ lies on line ℓ_3
 106 : $P_{1538} = (0, 15, 0, 1)$ lies on line ℓ_3
 107 : $P_{1570} = (0, 16, 0, 1)$ lies on line ℓ_3
 108 : $P_{1602} = (0, 17, 0, 1)$ lies on line ℓ_3
 109 : $P_{1634} = (0, 18, 0, 1)$ lies on line ℓ_3
 110 : $P_{1666} = (0, 19, 0, 1)$ lies on line ℓ_3
 111 : $P_{1698} = (0, 20, 0, 1)$ lies on line ℓ_3
 112 : $P_{1730} = (0, 21, 0, 1)$ lies on line ℓ_3
 113 : $P_{1762} = (0, 22, 0, 1)$ lies on line ℓ_3
 114 : $P_{1794} = (0, 23, 0, 1)$ lies on line ℓ_3
 115 : $P_{1826} = (0, 24, 0, 1)$ lies on line ℓ_3
 116 : $P_{1858} = (0, 25, 0, 1)$ lies on line ℓ_3
 117 : $P_{1890} = (0, 26, 0, 1)$ lies on line ℓ_3
 118 : $P_{1922} = (0, 27, 0, 1)$ lies on line ℓ_3
 119 : $P_{1954} = (0, 28, 0, 1)$ lies on line ℓ_3
 120 : $P_{1986} = (0, 29, 0, 1)$ lies on line ℓ_3
 121 : $P_{2018} = (0, 30, 0, 1)$ lies on line ℓ_3
 122 : $P_{2050} = (0, 31, 0, 1)$ lies on line ℓ_3
 123 : $P_{2082} = (0, 0, 1, 1)$ lies on line ℓ_4
 124 : $P_{3105} = (0, 0, 2, 1)$ lies on line ℓ_4
 125 : $P_{4129} = (0, 0, 3, 1)$ lies on line ℓ_4
 126 : $P_{5153} = (0, 0, 4, 1)$ lies on line ℓ_4
 127 : $P_{6177} = (0, 0, 5, 1)$ lies on line ℓ_4
 128 : $P_{7201} = (0, 0, 6, 1)$ lies on line ℓ_4
 129 : $P_{8225} = (0, 0, 7, 1)$ lies on line ℓ_4
 130 : $P_{9249} = (0, 0, 8, 1)$ lies on line ℓ_4
 131 : $P_{10273} = (0, 0, 9, 1)$ lies on line ℓ_4
 132 : $P_{11297} = (0, 0, 10, 1)$ lies on line ℓ_4
 133 : $P_{12321} = (0, 0, 11, 1)$ lies on line ℓ_4
 134 : $P_{13345} = (0, 0, 12, 1)$ lies on line ℓ_4
 135 : $P_{14369} = (0, 0, 13, 1)$ lies on line ℓ_4
 136 : $P_{15393} = (0, 0, 14, 1)$ lies on line ℓ_4
 137 : $P_{16417} = (0, 0, 15, 1)$ lies on line ℓ_4
 138 : $P_{17441} = (0, 0, 16, 1)$ lies on line ℓ_4
 139 : $P_{18465} = (0, 0, 17, 1)$ lies on line ℓ_4
 140 : $P_{19489} = (0, 0, 18, 1)$ lies on line ℓ_4
 141 : $P_{20513} = (0, 0, 19, 1)$ lies on line ℓ_4
 142 : $P_{21537} = (0, 0, 20, 1)$ lies on line ℓ_4
 143 : $P_{22561} = (0, 0, 21, 1)$ lies on line ℓ_4

144 : $P_{23585} = (0, 0, 22, 1)$ lies on line ℓ_4
 145 : $P_{24609} = (0, 0, 23, 1)$ lies on line ℓ_4
 146 : $P_{25633} = (0, 0, 24, 1)$ lies on line ℓ_4
 147 : $P_{26657} = (0, 0, 25, 1)$ lies on line ℓ_4
 148 : $P_{27681} = (0, 0, 26, 1)$ lies on line ℓ_4
 149 : $P_{28705} = (0, 0, 27, 1)$ lies on line ℓ_4

150 : $P_{29729} = (0, 0, 28, 1)$ lies on line ℓ_4
 151 : $P_{30753} = (0, 0, 29, 1)$ lies on line ℓ_4
 152 : $P_{31777} = (0, 0, 30, 1)$ lies on line ℓ_4
 153 : $P_{32801} = (0, 0, 31, 1)$ lies on line ℓ_4

The single points on the surface are:

Points on surface but on no line

The surface has 930 points not on any line:

The points on the surface but not on lines are:

0 : $P_{2176} = (31, 2, 1, 1)$	38 : $P_{3400} = (7, 9, 2, 1)$
1 : $P_{2193} = (16, 3, 1, 1)$	39 : $P_{3446} = (21, 10, 2, 1)$
2 : $P_{2227} = (18, 4, 1, 1)$	40 : $P_{3466} = (9, 11, 2, 1)$
3 : $P_{2254} = (13, 5, 1, 1)$	41 : $P_{3516} = (27, 12, 2, 1)$
4 : $P_{2284} = (11, 6, 1, 1)$	42 : $P_{3523} = (2, 13, 2, 1)$
5 : $P_{2313} = (8, 7, 1, 1)$	43 : $P_{3560} = (7, 14, 2, 1)$
6 : $P_{2350} = (13, 8, 1, 1)$	44 : $P_{3587} = (2, 15, 2, 1)$
7 : $P_{2399} = (30, 9, 1, 1)$	45 : $P_{3637} = (20, 16, 2, 1)$
8 : $P_{2428} = (27, 10, 1, 1)$	46 : $P_{3653} = (4, 17, 2, 1)$
9 : $P_{2452} = (19, 11, 1, 1)$	47 : $P_{3721} = (8, 19, 2, 1)$
10 : $P_{2467} = (2, 12, 1, 1)$	48 : $P_{3768} = (23, 20, 2, 1)$
11 : $P_{2508} = (11, 13, 1, 1)$	49 : $P_{3781} = (4, 21, 2, 1)$
12 : $P_{2531} = (2, 14, 1, 1)$	50 : $P_{3824} = (15, 22, 2, 1)$
13 : $P_{2569} = (8, 15, 1, 1)$	51 : $P_{3868} = (27, 23, 2, 1)$
14 : $P_{2602} = (9, 16, 1, 1)$	52 : $P_{3878} = (5, 24, 2, 1)$
15 : $P_{2652} = (27, 17, 1, 1)$	53 : $P_{3920} = (15, 25, 2, 1)$
16 : $P_{2671} = (14, 18, 1, 1)$	54 : $P_{3968} = (31, 26, 2, 1)$
17 : $P_{2705} = (16, 19, 1, 1)$	55 : $P_{3977} = (8, 27, 2, 1)$
18 : $P_{2736} = (15, 20, 1, 1)$	56 : $P_{4030} = (29, 28, 2, 1)$
19 : $P_{2763} = (10, 21, 1, 1)$	57 : $P_{4038} = (5, 29, 2, 1)$
20 : $P_{2803} = (18, 22, 1, 1)$	58 : $P_{4087} = (22, 30, 2, 1)$
21 : $P_{2847} = (30, 23, 1, 1)$	59 : $P_{4118} = (21, 31, 2, 1)$
22 : $P_{2868} = (19, 24, 1, 1)$	60 : $P_{4180} = (19, 1, 3, 1)$
23 : $P_{2890} = (9, 25, 1, 1)$	61 : $P_{4219} = (26, 2, 3, 1)$
24 : $P_{2917} = (4, 26, 1, 1)$	62 : $P_{4249} = (24, 3, 3, 1)$
25 : $P_{2960} = (15, 27, 1, 1)$	63 : $P_{4286} = (29, 4, 3, 1)$
26 : $P_{2991} = (14, 28, 1, 1)$	64 : $P_{4316} = (27, 5, 3, 1)$
27 : $P_{3040} = (31, 29, 1, 1)$	65 : $P_{4330} = (9, 6, 3, 1)$
28 : $P_{3045} = (4, 30, 1, 1)$	66 : $P_{4363} = (10, 7, 3, 1)$
29 : $P_{3083} = (10, 31, 1, 1)$	67 : $P_{4403} = (18, 8, 3, 1)$
30 : $P_{3166} = (29, 1, 2, 1)$	68 : $P_{4422} = (5, 9, 3, 1)$
31 : $P_{3178} = (9, 2, 2, 1)$	69 : $P_{4480} = (31, 10, 3, 1)$
32 : $P_{3224} = (23, 3, 2, 1)$	70 : $P_{4503} = (22, 11, 3, 1)$
33 : $P_{3253} = (20, 4, 2, 1)$	71 : $P_{4518} = (5, 12, 3, 1)$
34 : $P_{3296} = (31, 5, 2, 1)$	72 : $P_{4555} = (10, 13, 3, 1)$
35 : $P_{3298} = (1, 6, 2, 1)$	73 : $P_{4602} = (25, 14, 3, 1)$
36 : $P_{3330} = (1, 7, 2, 1)$	74 : $P_{4618} = (9, 15, 3, 1)$
37 : $P_{3383} = (22, 8, 2, 1)$	75 : $P_{4647} = (6, 16, 3, 1)$

76 : $P_{4687} = (14, 17, 3, 1)$	130 : $P_{6546} = (17, 11, 5, 1)$
77 : $P_{4724} = (19, 18, 3, 1)$	131 : $P_{6591} = (30, 12, 5, 1)$
78 : $P_{4744} = (7, 19, 3, 1)$	132 : $P_{6613} = (20, 13, 5, 1)$
79 : $P_{4776} = (7, 20, 3, 1)$	133 : $P_{6643} = (18, 14, 5, 1)$
80 : $P_{4832} = (31, 21, 3, 1)$	134 : $P_{6682} = (25, 15, 5, 1)$
81 : $P_{4839} = (6, 22, 3, 1)$	135 : $P_{6711} = (22, 16, 5, 1)$
82 : $P_{4890} = (25, 23, 3, 1)$	136 : $P_{6723} = (2, 17, 5, 1)$
83 : $P_{4923} = (26, 24, 3, 1)$	137 : $P_{6783} = (30, 18, 5, 1)$
84 : $P_{4958} = (29, 25, 3, 1)$	138 : $P_{6787} = (2, 19, 5, 1)$
85 : $P_{4979} = (18, 26, 3, 1)$	139 : $P_{6828} = (11, 20, 5, 1)$
86 : $P_{5017} = (24, 27, 3, 1)$	140 : $P_{6863} = (14, 21, 5, 1)$
87 : $P_{5079} = (22, 29, 3, 1)$	141 : $P_{6906} = (25, 22, 5, 1)$
88 : $P_{5116} = (27, 30, 3, 1)$	142 : $P_{6951} = (6, 24, 5, 1)$
89 : $P_{5135} = (14, 31, 3, 1)$	143 : $P_{6997} = (20, 25, 5, 1)$
90 : $P_{5207} = (22, 1, 4, 1)$	144 : $P_{7026} = (17, 26, 5, 1)$
91 : $P_{5227} = (10, 2, 4, 1)$	145 : $P_{7055} = (14, 27, 5, 1)$
92 : $P_{5267} = (18, 3, 4, 1)$	146 : $P_{7091} = (18, 28, 5, 1)$
93 : $P_{5292} = (11, 4, 4, 1)$	147 : $P_{7126} = (21, 29, 5, 1)$
94 : $P_{5337} = (24, 5, 4, 1)$	148 : $P_{7143} = (6, 30, 5, 1)$
95 : $P_{5376} = (31, 6, 4, 1)$	149 : $P_{7180} = (11, 31, 5, 1)$
96 : $P_{5394} = (17, 7, 4, 1)$	150 : $P_{7246} = (13, 1, 6, 1)$
97 : $P_{5419} = (10, 8, 4, 1)$	151 : $P_{7293} = (28, 2, 6, 1)$
98 : $P_{5498} = (25, 10, 4, 1)$	152 : $P_{7319} = (22, 3, 6, 1)$
99 : $P_{5526} = (21, 11, 4, 1)$	153 : $P_{7338} = (9, 4, 6, 1)$
100 : $P_{5553} = (16, 12, 4, 1)$	154 : $P_{7390} = (29, 5, 6, 1)$
101 : $P_{5598} = (29, 13, 4, 1)$	155 : $P_{7409} = (16, 6, 6, 1)$
102 : $P_{5629} = (28, 14, 4, 1)$	156 : $P_{7455} = (30, 7, 6, 1)$
103 : $P_{5644} = (11, 15, 4, 1)$	157 : $P_{7460} = (3, 8, 6, 1)$
104 : $P_{5694} = (29, 16, 4, 1)$	158 : $P_{7516} = (27, 9, 6, 1)$
105 : $P_{5715} = (18, 17, 4, 1)$	159 : $P_{7538} = (17, 10, 6, 1)$
106 : $P_{5757} = (28, 18, 4, 1)$	160 : $P_{7556} = (3, 11, 6, 1)$
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123 : $P_{6308} = (3, 4, 5, 1)$	177 : $P_{8136} = (7, 29, 6, 1)$
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184 : $P_{8399} = (14, 5, 7, 1)$	238 : $P_{10238} = (29, 30, 8, 1)$
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 548 : $P_{20813} = (12, 9, 19, 1)$
 549 : $P_{20852} = (19, 10, 19, 1)$
 550 : $P_{20888} = (23, 11, 19, 1)$
 551 : $P_{20915} = (18, 12, 19, 1)$
 552 : $P_{20943} = (14, 13, 19, 1)$
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 560 : $P_{21202} = (17, 21, 19, 1)$
 561 : $P_{21226} = (9, 22, 19, 1)$

562 : $P_{21280} = (31, 23, 19, 1)$
 563 : $P_{21291} = (10, 24, 19, 1)$
 564 : $P_{21332} = (19, 25, 19, 1)$
 565 : $P_{21365} = (20, 26, 19, 1)$
 566 : $P_{21405} = (28, 27, 19, 1)$
 567 : $P_{21432} = (23, 28, 19, 1)$
 568 : $P_{21491} = (18, 30, 19, 1)$
 569 : $P_{21514} = (9, 31, 19, 1)$
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 585 : $P_{22060} = (11, 16, 20, 1)$
 586 : $P_{22103} = (22, 17, 20, 1)$
 587 : $P_{22139} = (26, 18, 20, 1)$
 588 : $P_{22168} = (23, 19, 20, 1)$
 589 : $P_{22190} = (13, 20, 20, 1)$
 590 : $P_{22228} = (19, 21, 20, 1)$
 591 : $P_{22262} = (21, 22, 20, 1)$
 592 : $P_{22288} = (15, 23, 20, 1)$
 593 : $P_{22320} = (15, 24, 20, 1)$
 594 : $P_{22350} = (13, 25, 20, 1)$
 595 : $P_{22396} = (27, 26, 20, 1)$
 596 : $P_{22412} = (11, 27, 20, 1)$
 597 : $P_{22458} = (25, 28, 20, 1)$
 598 : $P_{22482} = (17, 29, 20, 1)$
 599 : $P_{22547} = (18, 31, 20, 1)$
 600 : $P_{22624} = (31, 1, 21, 1)$
 601 : $P_{22639} = (14, 2, 21, 1)$
 602 : $P_{22664} = (7, 3, 21, 1)$
 603 : $P_{22696} = (7, 4, 21, 1)$
 604 : $P_{22744} = (23, 5, 21, 1)$
 605 : $P_{22778} = (25, 6, 21, 1)$
 606 : $P_{22798} = (13, 7, 21, 1)$
 607 : $P_{22837} = (20, 8, 21, 1)$
 608 : $P_{22866} = (17, 9, 21, 1)$
 609 : $P_{22894} = (13, 10, 21, 1)$
 610 : $P_{22941} = (28, 11, 21, 1)$
 611 : $P_{22959} = (14, 12, 21, 1)$
 612 : $P_{23001} = (24, 13, 21, 1)$
 613 : $P_{23028} = (19, 14, 21, 1)$
 614 : $P_{23071} = (30, 15, 21, 1)$
 615 : $P_{23077} = (4, 16, 21, 1)$

616 : $P_{23135} = (30, 17, 21, 1)$
 617 : $P_{23160} = (23, 18, 21, 1)$
 618 : $P_{23174} = (5, 19, 21, 1)$
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 625 : $P_{23427} = (2, 27, 21, 1)$
 626 : $P_{23477} = (20, 28, 21, 1)$
 627 : $P_{23508} = (19, 29, 21, 1)$
 628 : $P_{23552} = (31, 30, 21, 1)$
 629 : $P_{23578} = (25, 31, 21, 1)$
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 632 : $P_{23707} = (26, 3, 22, 1)$
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 638 : $P_{23912} = (7, 10, 22, 1)$
 639 : $P_{23942} = (5, 11, 22, 1)$
 640 : $P_{23989} = (20, 12, 22, 1)$
 641 : $P_{24008} = (7, 13, 22, 1)$
 642 : $P_{24038} = (5, 14, 22, 1)$
 643 : $P_{24081} = (16, 15, 22, 1)$
 644 : $P_{24100} = (3, 16, 22, 1)$
 645 : $P_{24152} = (23, 17, 22, 1)$
 646 : $P_{24173} = (12, 18, 22, 1)$
 647 : $P_{24196} = (3, 19, 22, 1)$
 648 : $P_{24227} = (2, 20, 22, 1)$
 649 : $P_{24275} = (18, 21, 22, 1)$
 650 : $P_{24291} = (2, 22, 22, 1)$
 651 : $P_{24331} = (10, 23, 22, 1)$
 652 : $P_{24373} = (20, 24, 22, 1)$
 653 : $P_{24411} = (26, 25, 22, 1)$
 654 : $P_{24423} = (6, 26, 22, 1)$
 655 : $P_{24480} = (31, 27, 22, 1)$
 656 : $P_{24487} = (6, 28, 22, 1)$
 657 : $P_{24523} = (10, 29, 22, 1)$
 658 : $P_{24557} = (12, 30, 22, 1)$
 659 : $P_{24593} = (16, 31, 22, 1)$
 660 : $P_{24650} = (9, 1, 23, 1)$
 661 : $P_{24694} = (21, 2, 23, 1)$
 662 : $P_{24724} = (19, 3, 23, 1)$
 663 : $P_{24753} = (16, 4, 23, 1)$
 664 : $P_{24813} = (12, 6, 23, 1)$
 665 : $P_{24857} = (24, 7, 23, 1)$
 666 : $P_{24874} = (9, 8, 23, 1)$
 667 : $P_{24917} = (20, 9, 23, 1)$
 668 : $P_{24941} = (12, 10, 23, 1)$
 669 : $P_{24968} = (7, 11, 23, 1)$

670 : $P_{25000} = (7, 12, 23, 1)$
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 672 : $P_{25079} = (22, 14, 23, 1)$
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 674 : $P_{25140} = (19, 16, 23, 1)$
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 677 : $P_{25227} = (10, 19, 23, 1)$
 678 : $P_{25265} = (16, 20, 23, 1)$
 679 : $P_{25307} = (26, 21, 23, 1)$
 680 : $P_{25326} = (13, 22, 23, 1)$
 681 : $P_{25366} = (21, 23, 23, 1)$
 682 : $P_{25399} = (22, 24, 23, 1)$
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 684 : $P_{25449} = (8, 26, 23, 1)$
 685 : $P_{25486} = (13, 27, 23, 1)$
 686 : $P_{25507} = (2, 28, 23, 1)$
 687 : $P_{25557} = (20, 29, 23, 1)$
 688 : $P_{25571} = (2, 30, 23, 1)$
 689 : $P_{25625} = (24, 31, 23, 1)$
 690 : $P_{25676} = (11, 1, 24, 1)$
 691 : $P_{25724} = (27, 2, 24, 1)$
 692 : $P_{25739} = (10, 3, 24, 1)$
 693 : $P_{25789} = (28, 4, 24, 1)$
 694 : $P_{25801} = (8, 5, 24, 1)$
 695 : $P_{25839} = (14, 6, 24, 1)$
 696 : $P_{25882} = (25, 7, 24, 1)$
 697 : $P_{25903} = (14, 8, 24, 1)$
 698 : $P_{25931} = (10, 9, 24, 1)$
 699 : $P_{25964} = (11, 10, 24, 1)$
 700 : $P_{26014} = (29, 11, 24, 1)$
 701 : $P_{26040} = (23, 12, 24, 1)$
 702 : $P_{26057} = (8, 13, 24, 1)$
 703 : $P_{26107} = (26, 14, 24, 1)$
 704 : $P_{26134} = (21, 15, 24, 1)$
 705 : $P_{26158} = (13, 16, 24, 1)$
 706 : $P_{26216} = (7, 18, 24, 1)$
 707 : $P_{26245} = (4, 19, 24, 1)$
 708 : $P_{26299} = (26, 20, 24, 1)$
 709 : $P_{26312} = (7, 21, 24, 1)$
 710 : $P_{26366} = (29, 22, 24, 1)$
 711 : $P_{26373} = (4, 23, 24, 1)$
 712 : $P_{26429} = (28, 24, 24, 1)$
 713 : $P_{26460} = (27, 25, 24, 1)$
 714 : $P_{26486} = (21, 26, 24, 1)$
 715 : $P_{26520} = (23, 27, 24, 1)$
 716 : $P_{26532} = (3, 28, 24, 1)$
 717 : $P_{26574} = (13, 29, 24, 1)$
 718 : $P_{26618} = (25, 30, 24, 1)$
 719 : $P_{26628} = (3, 31, 24, 1)$
 720 : $P_{26705} = (16, 1, 25, 1)$
 721 : $P_{26739} = (18, 2, 25, 1)$
 722 : $P_{26773} = (20, 3, 25, 1)$
 723 : $P_{26800} = (15, 4, 25, 1)$

724 : $P_{26820} = (3, 5, 25, 1)$	778 : $P_{28665} = (24, 30, 26, 1)$
725 : $P_{26852} = (3, 6, 25, 1)$	779 : $P_{28703} = (30, 31, 26, 1)$
726 : $P_{26910} = (29, 7, 25, 1)$	780 : $P_{28757} = (20, 1, 27, 1)$
727 : $P_{26918} = (5, 8, 25, 1)$	781 : $P_{28775} = (6, 2, 27, 1)$
728 : $P_{26971} = (26, 9, 25, 1)$	782 : $P_{28816} = (15, 3, 27, 1)$
729 : $P_{27024} = (15, 11, 25, 1)$	783 : $P_{28839} = (6, 4, 27, 1)$
730 : $P_{27065} = (24, 12, 25, 1)$	784 : $P_{28867} = (2, 5, 27, 1)$
731 : $P_{27078} = (5, 13, 25, 1)$	785 : $P_{28925} = (28, 6, 27, 1)$
732 : $P_{27126} = (21, 14, 25, 1)$	786 : $P_{28931} = (2, 7, 27, 1)$
733 : $P_{27154} = (17, 15, 25, 1)$	787 : $P_{28968} = (7, 8, 27, 1)$
734 : $P_{27187} = (18, 16, 25, 1)$	788 : $P_{29011} = (18, 9, 27, 1)$
735 : $P_{27217} = (16, 17, 25, 1)$	789 : $P_{29049} = (24, 10, 27, 1)$
736 : $P_{27246} = (13, 18, 25, 1)$	790 : $P_{29084} = (27, 11, 27, 1)$
737 : $P_{27291} = (26, 19, 25, 1)$	791 : $P_{29104} = (15, 12, 27, 1)$
738 : $P_{27321} = (24, 20, 25, 1)$	792 : $P_{29140} = (19, 13, 27, 1)$
739 : $P_{27338} = (9, 21, 25, 1)$	793 : $P_{29182} = (29, 14, 27, 1)$
740 : $P_{27375} = (14, 22, 25, 1)$	794 : $P_{29192} = (7, 15, 27, 1)$
741 : $P_{27413} = (20, 23, 25, 1)$	795 : $P_{29244} = (27, 16, 27, 1)$
742 : $P_{27439} = (14, 24, 25, 1)$	796 : $P_{29262} = (13, 17, 27, 1)$
743 : $P_{27461} = (4, 25, 25, 1)$	797 : $P_{29305} = (24, 18, 27, 1)$
744 : $P_{27518} = (29, 26, 25, 1)$	798 : $P_{29342} = (29, 19, 27, 1)$
745 : $P_{27542} = (21, 27, 25, 1)$	799 : $P_{29348} = (3, 20, 27, 1)$
746 : $P_{27562} = (9, 28, 25, 1)$	800 : $P_{29397} = (20, 21, 27, 1)$
747 : $P_{27589} = (4, 29, 25, 1)$	801 : $P_{29420} = (11, 22, 27, 1)$
748 : $P_{27634} = (17, 30, 25, 1)$	802 : $P_{29444} = (3, 23, 27, 1)$
749 : $P_{27662} = (13, 31, 25, 1)$	803 : $P_{29474} = (1, 24, 27, 1)$
750 : $P_{27743} = (30, 1, 26, 1)$	804 : $P_{29506} = (1, 25, 27, 1)$
751 : $P_{27765} = (20, 2, 26, 1)$	805 : $P_{29565} = (28, 26, 27, 1)$
752 : $P_{27790} = (13, 3, 26, 1)$	806 : $P_{29587} = (18, 27, 27, 1)$
753 : $P_{27834} = (25, 4, 26, 1)$	807 : $P_{29614} = (13, 28, 27, 1)$
754 : $P_{27851} = (10, 5, 26, 1)$	808 : $P_{29644} = (11, 29, 27, 1)$
755 : $P_{27897} = (24, 6, 26, 1)$	809 : $P_{29684} = (19, 30, 27, 1)$
756 : $P_{27920} = (15, 7, 26, 1)$	810 : $P_{29779} = (18, 1, 28, 1)$
757 : $P_{27952} = (15, 8, 26, 1)$	811 : $P_{29797} = (4, 2, 28, 1)$
758 : $P_{27998} = (29, 9, 26, 1)$	812 : $P_{29887} = (30, 4, 28, 1)$
759 : $P_{28023} = (22, 10, 26, 1)$	813 : $P_{29910} = (21, 5, 28, 1)$
760 : $P_{28051} = (18, 11, 26, 1)$	814 : $P_{29925} = (4, 6, 28, 1)$
761 : $P_{28096} = (31, 12, 26, 1)$	815 : $P_{29965} = (12, 7, 28, 1)$
762 : $P_{28120} = (23, 13, 26, 1)$	816 : $P_{30002} = (17, 8, 28, 1)$
763 : $P_{28142} = (13, 14, 26, 1)$	817 : $P_{30041} = (24, 9, 28, 1)$
764 : $P_{28171} = (10, 15, 26, 1)$	818 : $P_{30078} = (29, 10, 28, 1)$
765 : $P_{28201} = (8, 16, 26, 1)$	819 : $P_{30093} = (12, 11, 28, 1)$
766 : $P_{28228} = (3, 17, 26, 1)$	820 : $P_{30132} = (19, 12, 28, 1)$
767 : $P_{28260} = (3, 18, 26, 1)$	821 : $P_{30161} = (16, 13, 28, 1)$
768 : $P_{28320} = (31, 19, 26, 1)$	822 : $P_{30204} = (27, 14, 28, 1)$
769 : $P_{28350} = (29, 20, 26, 1)$	823 : $P_{30232} = (23, 15, 28, 1)$
770 : $P_{28405} = (20, 22, 26, 1)$	824 : $P_{30262} = (21, 16, 28, 1)$
771 : $P_{28429} = (12, 23, 26, 1)$	825 : $P_{30297} = (24, 17, 28, 1)$
772 : $P_{28457} = (8, 24, 26, 1)$	826 : $P_{30311} = (6, 18, 28, 1)$
773 : $P_{28499} = (18, 25, 26, 1)$	827 : $P_{30355} = (18, 19, 28, 1)$
774 : $P_{28536} = (23, 26, 26, 1)$	828 : $P_{30375} = (6, 20, 28, 1)$
775 : $P_{28557} = (12, 27, 26, 1)$	829 : $P_{30428} = (27, 21, 28, 1)$
776 : $P_{28599} = (22, 28, 26, 1)$	830 : $P_{30441} = (8, 22, 28, 1)$
777 : $P_{28634} = (25, 29, 26, 1)$	831 : $P_{30494} = (29, 23, 28, 1)$

832 : $P_{30520} = (23, 24, 28, 1)$
 833 : $P_{30546} = (17, 25, 28, 1)$
 834 : $P_{30591} = (30, 26, 28, 1)$
 835 : $P_{30600} = (7, 27, 28, 1)$
 836 : $P_{30632} = (7, 28, 28, 1)$
 837 : $P_{30673} = (16, 29, 28, 1)$
 838 : $P_{30697} = (8, 30, 28, 1)$
 839 : $P_{30740} = (19, 31, 28, 1)$
 840 : $P_{30787} = (2, 1, 29, 1)$
 841 : $P_{30832} = (15, 2, 29, 1)$
 842 : $P_{30851} = (2, 3, 29, 1)$
 843 : $P_{30907} = (26, 4, 29, 1)$
 844 : $P_{30941} = (28, 5, 29, 1)$
 845 : $P_{30972} = (27, 6, 29, 1)$
 846 : $P_{31008} = (31, 7, 29, 1)$
 847 : $P_{31033} = (24, 8, 29, 1)$
 848 : $P_{31044} = (3, 9, 29, 1)$
 849 : $P_{31076} = (3, 10, 29, 1)$
 850 : $P_{31109} = (4, 11, 29, 1)$
 851 : $P_{31162} = (25, 12, 29, 1)$
 852 : $P_{31184} = (15, 13, 29, 1)$
 853 : $P_{31218} = (17, 14, 29, 1)$
 854 : $P_{31237} = (4, 15, 29, 1)$
 855 : $P_{31289} = (24, 16, 29, 1)$
 856 : $P_{31303} = (6, 17, 29, 1)$
 857 : $P_{31338} = (9, 18, 29, 1)$
 858 : $P_{31401} = (8, 20, 29, 1)$
 859 : $P_{31450} = (25, 21, 29, 1)$
 860 : $P_{31469} = (12, 22, 29, 1)$
 861 : $P_{31495} = (6, 23, 29, 1)$
 862 : $P_{31552} = (31, 24, 29, 1)$
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 864 : $P_{31597} = (12, 26, 29, 1)$
 865 : $P_{31626} = (9, 27, 29, 1)$
 866 : $P_{31657} = (8, 28, 29, 1)$
 867 : $P_{31708} = (27, 29, 29, 1)$
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 869 : $P_{31762} = (17, 31, 29, 1)$
 870 : $P_{31835} = (26, 1, 30, 1)$
 871 : $P_{31846} = (5, 2, 30, 1)$
 872 : $P_{31890} = (17, 3, 30, 1)$
 873 : $P_{31906} = (1, 4, 30, 1)$
 874 : $P_{31938} = (1, 5, 30, 1)$
 875 : $P_{31982} = (13, 6, 30, 1)$
 876 : $P_{32006} = (5, 7, 30, 1)$
 877 : $P_{32063} = (30, 8, 30, 1)$
 878 : $P_{32093} = (28, 9, 30, 1)$
 879 : $P_{32103} = (6, 10, 30, 1)$
 880 : $P_{32142} = (13, 11, 30, 1)$
 881 : $P_{32167} = (6, 12, 30, 1)$

882 : $P_{32214} = (21, 13, 30, 1)$
 883 : $P_{32256} = (31, 14, 30, 1)$
 884 : $P_{32275} = (18, 15, 30, 1)$
 885 : $P_{32299} = (10, 16, 30, 1)$
 886 : $P_{32352} = (31, 17, 30, 1)$
 887 : $P_{32370} = (17, 18, 30, 1)$
 888 : $P_{32400} = (15, 19, 30, 1)$
 889 : $P_{32477} = (28, 21, 30, 1)$
 890 : $P_{32511} = (30, 22, 30, 1)$
 891 : $P_{32521} = (8, 23, 30, 1)$
 892 : $P_{32566} = (21, 24, 30, 1)$
 893 : $P_{32584} = (7, 25, 30, 1)$
 894 : $P_{32619} = (10, 26, 30, 1)$
 895 : $P_{32667} = (26, 27, 30, 1)$
 896 : $P_{32688} = (15, 28, 30, 1)$
 897 : $P_{32723} = (18, 29, 30, 1)$
 898 : $P_{32744} = (7, 30, 30, 1)$
 899 : $P_{32777} = (8, 31, 30, 1)$
 900 : $P_{32854} = (21, 1, 31, 1)$
 901 : $P_{32878} = (13, 2, 31, 1)$
 902 : $P_{32928} = (31, 3, 31, 1)$
 903 : $P_{32941} = (12, 4, 31, 1)$
 904 : $P_{32980} = (19, 5, 31, 1)$
 905 : $P_{33023} = (30, 6, 31, 1)$
 906 : $P_{33051} = (26, 7, 31, 1)$
 907 : $P_{33069} = (12, 8, 31, 1)$
 908 : $P_{33111} = (22, 9, 31, 1)$
 909 : $P_{33125} = (4, 10, 31, 1)$
 910 : $P_{33159} = (6, 11, 31, 1)$
 911 : $P_{33214} = (29, 12, 31, 1)$
 912 : $P_{33223} = (6, 13, 31, 1)$
 913 : $P_{33253} = (4, 14, 31, 1)$
 914 : $P_{33294} = (13, 15, 31, 1)$
 915 : $P_{33327} = (14, 16, 31, 1)$
 916 : $P_{33374} = (29, 17, 31, 1)$
 917 : $P_{33378} = (1, 18, 31, 1)$
 918 : $P_{33410} = (1, 19, 31, 1)$
 919 : $P_{33462} = (21, 20, 31, 1)$
 920 : $P_{33475} = (2, 21, 31, 1)$
 921 : $P_{33524} = (19, 22, 31, 1)$
 922 : $P_{33539} = (2, 23, 31, 1)$
 923 : $P_{33599} = (30, 24, 31, 1)$
 924 : $P_{33604} = (3, 25, 31, 1)$
 925 : $P_{33636} = (3, 26, 31, 1)$
 926 : $P_{33728} = (31, 28, 31, 1)$
 927 : $P_{33755} = (26, 29, 31, 1)$
 928 : $P_{33775} = (14, 30, 31, 1)$
 929 : $P_{33815} = (22, 31, 31, 1)$

Line Intersection Graph

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

Neighbor sets in the line intersection graph:

Line 0 intersects

Line	ℓ_1	ℓ_2	ℓ_3
in point	P_0	P_5	P_1

Line 1 intersects

Line	ℓ_0	ℓ_2	ℓ_4
in point	P_0	P_2	P_2

Line 2 intersects

Line	ℓ_0	ℓ_1	ℓ_4
in point	P_5	P_2	P_2

Line 3 intersects

Line	ℓ_0	ℓ_4
in point	P_1	P_3

Line 4 intersects

Line	ℓ_1	ℓ_2	ℓ_3
in point	P_2	P_2	P_3

The surface has 1089 points:

Too many to print.