Rank-76323 over GF(32)

January 15, 2021

The equation

The equation of the surface is :

$$X_0^2X_2 + X_1^2X_3 + X_1X_2^2 + X_0X_3^2 + X_0X_1X_2 = 0$$

(0, 0, 0, 0, 0, 1, 0, 0, 0, 1, 0, 1, 0, 1, 0, 0, 1, 0, 0, 0)
The point rank of the equation over GF(32) is 1141933093

General information

Number of lines	27
Number of points	1249
Number of singular points	0
Number of Eckardt points	5
Number of double points	120
Number of single points	636
Number of points off lines	488
Number of Hesse planes	0
Number of axes	0
Type of points on lines	33^{27}
Type of lines on points	3^5, 2^{120}, 1^{636}, 0^{488}

Singular Points

The surface has 0 singular points:

The 27 Lines

The lines and their Pluecker coordinates are:

$$\ell_0 = a_1 = \begin{bmatrix} 1 & 0 & \eta^{29} & \eta^{30} \\ 0 & 1 & \eta & \eta^2 \end{bmatrix}_{618475} = \begin{bmatrix} 1 & 0 & 9 & 18 \\ 0 & 1 & 2 & 4 \end{bmatrix}_{618475} = \mathbf{Pl}(9,0,18,2,16,1)_{562682}$$

$$\ell_1 = a_2 = \begin{bmatrix} 1 & 0 & \eta^{27} & \eta^{29} \\ 0 & 1 & \eta^2 & \eta^4 \end{bmatrix}_{316559} = \begin{bmatrix} 1 & 0 & 11 & 9 \\ 0 & 1 & 4 & 16 \end{bmatrix}_{316559} = \mathbf{Pl}(11,0,9,4,13,1)_{463909}$$

$$\ell_2 = a_3 = \left[\begin{array}{cccc} 1 & 0 & \eta^{23} & \eta^{27} \\ 0 & 1 & \eta^4 & \eta^8 \end{array}\right]_{388351} = \left[\begin{array}{cccc} 1 & 0 & 15 & 11 \\ 0 & 1 & 16 & 13 \end{array}\right]_{388351} = \mathbf{Pl}(15,0,11,16,27,1)_{922343}$$

$$\ell_3 = a_4 = \left[\begin{array}{cccc} 1 & \eta & 0 & 0 \\ 0 & 0 & 1 & \eta^{16} \end{array}\right]_{3165} = \left[\begin{array}{cccc} 1 & 2 & 0 & 0 \\ 0 & 0 & 1 & 27 \end{array}\right]_{3165} = \mathbf{Pl}(0,0,31,27,31,1)_{1054532}$$

$$\ell_4 = a_5 = \left[\begin{array}{cccc} 1 & \eta^{16} & 0 & 0 \\ 0 & 0 & 1 & \eta^8 \end{array}\right]_{29576} = \left[\begin{array}{cccc} 1 & 27 & 0 & 0 \\ 0 & 0 & 1 & 13 \end{array}\right]_{29576} = \mathbf{Pl}(0,0,15,13,15,1)_{529748}$$

$$\ell_5 = a_6 = \left[\begin{array}{cccc} 1 & 0 & \eta^8 & \eta^4 \\ 0 & 1 & \eta^{28} & \eta^{25} \end{array}\right]_{555747} = \left[\begin{array}{cccc} 1 & 0 & 13 & 16 \\ 0 & 1 & 22 & 25 \end{array}\right]_{555747} = \mathbf{Pl}(12,7,16,11,19,1)_{676220}$$

$$\ell_6 = b_1 = \left[\begin{array}{cccc} 1 & 0 & \eta^2 & \eta \\ 0 & 1 & \eta^7 & \eta^{14} \end{array}\right]_{72824} = \left[\begin{array}{cccc} 1 & 0 & 4 & 2 \\ 0 & 1 & 20 & 29 \end{array}\right]_{72824} = \mathbf{Pl}(5,23,2,18,14,1)_{499420}$$

$$\ell_7 = b_2 = \left[\begin{array}{cccc} 1 & 0 & \eta^{19} & \eta^{25} \\ 0 & 1 & \eta^{30} & \eta^{29} \end{array}\right]_{852248} = \left[\begin{array}{cccc} 1 & 0 & 6 & 25 \\ 0 & 1 & 18 & 9 \end{array}\right]_{852248} = \mathbf{Pl}(7,12,25,10,17,1)_{619175}$$

$$\ell_8 = b_3 = \left[\begin{array}{cccc} 1 & 0 & \eta & \eta^{16} \\ 0 & 1 & \eta^{19} & \eta^7 \end{array}\right]_{916008} = \left[\begin{array}{cccc} 1 & 0 & 2 & 27 \\ 0 & 1 & 6 & 20 \end{array}\right]_{916008} = \mathbf{Pl}(3,28,27,31,10,1)_{391600}$$

$$\ell_9 = b_4 = \left[\begin{array}{cccc} 1 & \eta^{16} & 0 & \eta \\ 0 & 0 & 1 & \eta^8 \end{array}\right]_{97224} = \left[\begin{array}{cccc} 1 & 27 & 0 & 2 \\ 0 & 0 & 1 & 13 \end{array}\right]_{97224} = \mathbf{Pl}(0,27,15,13,15,1)_{529806}$$

$$\ell_{10} = b_5 = \left[\begin{array}{cccc} 1 & \eta & 0 & \eta^2 \\ 0 & 0 & 1 & \eta^{16} \end{array}\right]_{138461} = \left[\begin{array}{cccc} 1 & 2 & 0 & 4 \\ 0 & 0 & 1 & 27 \end{array}\right]_{138461} = \mathbf{Pl}(0,2,31,27,31,1)_{1054565}$$

$$\ell_{11} = b_6 = \left[\begin{array}{cccc} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \end{array}\right]_{0} = \left[\begin{array}{cccc} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \end{array}\right]_{0} = \mathbf{Pl}(1,0,0,0,0,0)_{0}$$

$$\ell_{12} = c_{12} = \left[\begin{array}{cccc} 1 & \eta^8 & 0 & \eta^{16} \\ 0 & 0 & 1 & \eta^4 \end{array}\right]_{928029} = \left[\begin{array}{cccc} 1 & 13 & 0 & 27 \\ 0 & 0 & 1 & 16 \end{array}\right]_{928029} = \mathbf{Pl}(0,13,11,16,11,1)_{398596}$$

$$\ell_{13} = c_{13} = \left[\begin{array}{cccc} 1 & \eta^4 & 0 & \eta^8 \\ 0 & 0 & 1 & \eta^2 \end{array}\right]_{457652} = \left[\begin{array}{cccc} 1 & 16 & 0 & 13 \\ 0 & 0 & 1 & 4 \end{array}\right]_{457652} = \mathbf{Pl}(0,16,9,4,9,1)_{333001}$$

$$\ell_{14} = c_{14} = \left[\begin{array}{cccc} 1 & 0 & \eta^{28} & \eta^{14} \\ 0 & 1 & \eta^{23} & \eta^{15} \end{array}\right]_{1005157} = \left[\begin{array}{cccc} 1 & 0 & 22 & 29 \\ 0 & 1 & 15 & 31 \end{array}\right]_{1005157} = \mathbf{Pl}(23,5,29,19,3,1)_{164762}$$

$$\ell_{15} = c_{15} = \left[\begin{array}{cccc} 1 & 0 & \eta^{16} & \eta^8 \\ 0 & 1 & \eta^{25} & \eta^{19} \end{array}\right]_{468468} = \left[\begin{array}{cccc} 1 & 0 & 27 & 13 \\ 0 & 1 & 25 & 6 \end{array}\right]_{468468} = \mathbf{Pl}(26,21,13,15,8,1)_{313069}$$

$$\ell_{16} = c_{16} = \left[\begin{array}{cccc} 1 & \eta^2 & 0 & 0 \\ 0 & 0 & 1 & \eta \end{array}\right]_{5254} = \left[\begin{array}{cccc} 1 & 4 & 0 & 0 \\ 0 & 0 & 1 & 2 \end{array}\right]_{5254} = \mathbf{Pl}(0,0,18,2,18,1)_{628145}$$

$$\ell_{17} = c_{23} = \left[\begin{array}{cccc} 1 & \eta^2 & 0 & \eta^4 \\ 0 & 0 & 1 & \eta \end{array}\right]_{546438} = \left[\begin{array}{cccc} 1 & 4 & 0 & 16 \\ 0 & 0 & 1 & 2 \end{array}\right]_{546438} = \mathbf{Pl}(0,4,18,2,18,1)_{628180}$$

$$\ell_{18} = c_{24} = \left[\begin{array}{cccc} 1 & 0 & \eta^7 & \eta^{19} \\ 0 & 1 & \eta^{29} & \eta^{27} \end{array}\right]_{224445} = \left[\begin{array}{cccc} 1 & 0 & 20 & 6 \\ 0 & 1 & 9 & 11 \end{array}\right]_{224445} = \mathbf{Pl}(21,26,6,14,12,1)_{438118}$$

$$\ell_{19} = c_{25} = \left[\begin{array}{cccc} 1 & 0 & \eta^{25} & \eta^{28} \\ 0 & 1 & \eta^{15} & \eta^{30} \end{array}\right]_{771160} = \left[\begin{array}{cccc} 1 & 0 & 25 & 22 \\ 0 & 1 & 31 & 18 \end{array}\right]_{771160} = \mathbf{Pl}(24,17,22,8,5,1)_{223136}$$

$$\ell_{20} = c_{26} = \left[\begin{array}{cccc} 1 & \eta^4 & 0 & 0 \\ 0 & 0 & 1 & \eta^2 \end{array}\right]_{17940} = \left[\begin{array}{cccc} 1 & 16 & 0 & 0 \\ 0 & 0 & 1 & 4 \end{array}\right]_{17940} = \mathbf{Pl}(0,0,9,4,9,1)_{332954}$$

$$\ell_{21} = c_{34} = \left[\begin{array}{cccc} 1 & 0 & \eta^4 & \eta^2 \\ 0 & 1 & \eta^{14} & \eta^{28} \end{array}\right]_{152941} = \left[\begin{array}{cccc} 1 & 0 & 16 & 4 \\ 0 & 1 & 29 & 22 \end{array}\right]_{152941} = \mathbf{Pl}(17,24,4,9,30,1)_{1025564}$$

$$\ell_{22} = c_{35} = \left[\begin{array}{cccc} 1 & 0 & \eta^{14} & \eta^7 \\ 0 & 1 & \eta^{27} & \eta^{23} \end{array}\right]_{707624} = \left[\begin{array}{cccc} 1 & 0 & 29 & 20 \\ 0 & 1 & 11 & 15 \end{array}\right]_{707624} = \mathbf{Pl}(28,3,20,30,26,1)_{909232}$$

$$\ell_{23} = c_{36} = \begin{bmatrix} 1 & \eta^8 & 0 & 0 \\ 0 & 0 & 1 & \eta^4 \end{bmatrix}_{14781} = \begin{bmatrix} 1 & 13 & 0 & 0 \\ 0 & 0 & 1 & 16 \end{bmatrix}_{14781} = \mathbf{Pl}(0,0,11,16,11,1)_{398552}$$

$$\ell_{24} = c_{45} = \begin{bmatrix} 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1083424} = \begin{bmatrix} 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1083424} = \mathbf{Pl}(0,1,0,0,0,0)_{1}$$

$$\ell_{25} = c_{46} = \begin{bmatrix} 1 & 0 & \eta^{30} & \eta^{15} \\ 0 & 1 & \eta^{16} & \eta \end{bmatrix}_{1067661} = \begin{bmatrix} 1 & 0 & 18 & 31 \\ 0 & 1 & 27 & 2 \end{bmatrix}_{1067661} = \mathbf{Pl}(18,0,31,27,4,1)_{170678}$$

$$\ell_{26} = c_{56} = \begin{bmatrix} 1 & 0 & \eta^{15} & \eta^{23} \\ 0 & 1 & \eta^{8} & \eta^{16} \end{bmatrix}_{541004} = \begin{bmatrix} 1 & 0 & 31 & 15 \\ 0 & 1 & 13 & 27 \end{bmatrix}_{541004} = \mathbf{Pl}(31,0,15,13,2,1)_{104211}$$

Rank of lines: (618475, 316559, 388351, 3165, 29576, 555747, 72824, 852248, 916008, 97224, 138461, 0, 928029, 457652, 1005157, 468468, 5254, 546438, 224445, 771160, 17940, 152941, 707624, 14781, 1083424, 1067661, 541004)
Rank of points on Klein quadric: (562682, 463909, 922343, 1054532, 529748, 676220, 499420, 619175, 391600, 529806, 1054565, 0, 398596, 333001, 164762, 313069, 628145, 628180, 438118, 223136, 332954, 1025564, 909232, 398552, 1, 170678, 104211)

Eckardt Points

The surface has 5 Eckardt points:
$0 : E_{13,26,45} = c_{13} \cap c_{26} \cap c_{45} = P_{10273} = \mathbf{P}(0,0,\eta^{29},1) = \mathbf{P}(0,0,9,1)$,
$1 : E_{12,36,45} = c_{12} \cap c_{36} \cap c_{45} = P_{12321} = \mathbf{P}(0,0,\eta^{27},1) = \mathbf{P}(0,0,11,1)$,
$2 : E_{54} = a_5 \cap b_4 \cap c_{45} = P_{16417} = \mathbf{P}(0,0,\eta^{23},1) = \mathbf{P}(0,0,15,1)$,
$3 : E_{16,23,45} = c_{16} \cap c_{23} \cap c_{45} = P_{19489} = \mathbf{P}(0,0,\eta^{30},1) = \mathbf{P}(0,0,18,1)$,
$4 : E_{45} = a_4 \cap b_5 \cap c_{45} = P_{32801} = \mathbf{P}(0,0,\eta^{15},1) = \mathbf{P}(0,0,31,1)$.

Double Points

The surface has 120 Double points:
The double points on the surface are:

$P_{20410} = (25,28,18,1) = \ell_0 \cap \ell_7 = a_1 \cap b_2$
$P_{19531} = (10,1,18,1) = \ell_0 \cap \ell_8 = a_1 \cap b_3$
$P_{19833} = (24,10,18,1) = \ell_0 \cap \ell_9 = a_1 \cap b_4$
$P_{19990} = (21,15,18,1) = \ell_0 \cap \ell_{10} = a_1 \cap b_5$
$P_{12} = (8,1,0,0) = \ell_0 \cap \ell_{11} = a_1 \cap b_6$
$P_{20285} = (28,24,18,1) = \ell_0 \cap \ell_{12} = a_1 \cap c_{12}$
$P_{20434} = (17,29,18,1) = \ell_0 \cap \ell_{13} = a_1 \cap c_{13}$
$P_{20023} = (22,16,18,1) = \ell_0 \cap \ell_{14} = a_1 \cap c_{14}$
$P_{20357} = (4,27,18,1) = \ell_0 \cap \ell_{15} = a_1 \cap c_{15}$
$P_{19571} = (18,2,18,1) = \ell_0 \cap \ell_{16} = a_1 \cap c_{16}$
$P_{10319} = (14,1,9,1) = \ell_1 \cap \ell_6 = a_2 \cap b_1$
$P_{10353} = (16,2,9,1) = \ell_1 \cap \ell_8 = a_2 \cap b_3$
$P_{10520} = (23,7,9,1) = \ell_1 \cap \ell_9 = a_2 \cap b_4$
$P_{10728} = (7,14,9,1) = \ell_1 \cap \ell_{10} = a_2 \cap b_5$
$P_{14} = (10,1,0,0) = \ell_1 \cap \ell_{11} = a_2 \cap b_6$
$P_{10989} = (12,22,9,1) = \ell_1 \cap \ell_{12} = a_2 \cap c_{12}$
$P_{11293} = (28,31,9,1) = \ell_1 \cap \ell_{17} = a_2 \cap c_{23}$
$P_{11015} = (6,23,9,1) = \ell_1 \cap \ell_{18} = a_2 \cap c_{24}$
$P_{10714} = (25,13,9,1) = \ell_1 \cap \ell_{19} = a_2 \cap c_{25}$
$P_{10410} = (9,4,9,1) = \ell_1 \cap \ell_{20} = a_2 \cap c_{26}$
$P_{12462} = (13,4,11,1) = \ell_2 \cap \ell_6 = a_3 \cap b_1$
$P_{13191} = (6,27,11,1) = \ell_2 \cap \ell_7 = a_3 \cap b_2$
$P_{13147} = (26,25,11,1) = \ell_2 \cap \ell_9 = a_3 \cap b_4$
$P_{13017} = (24,21,11,1) = \ell_2 \cap \ell_{10} = a_3 \cap b_5$
$P_{18} = (14,1,0,0) = \ell_2 \cap \ell_{11} = a_3 \cap b_6$
$P_{12920} = (23,18,11,1) = \ell_2 \cap \ell_{13} = a_3 \cap c_{13}$
$P_{13302} = (21,30,11,1) = \ell_2 \cap \ell_{17} = a_3 \cap c_{23}$
$P_{12383} = (30,1,11,1) = \ell_2 \cap \ell_{21} = a_3 \cap c_{34}$
$P_{13109} = (20,24,11,1) = \ell_2 \cap \ell_{22} = a_3 \cap c_{35}$
$P_{12844} = (11,16,11,1) = \ell_2 \cap \ell_{23} = a_3 \cap c_{36}$
$P_{32916} = (19,3,31,1) = \ell_3 \cap \ell_6 = a_4 \cap b_1$
$P_{32977} = (16,5,31,1) = \ell_3 \cap \ell_7 = a_4 \cap b_2$
$P_{33321} = (8,16,31,1) = \ell_3 \cap \ell_8 = a_4 \cap b_3$
$P_{22} = (18,1,0,0) = \ell_3 \cap \ell_{11} = a_4 \cap b_6$
$P_{33711} = (14,28,31,1) = \ell_3 \cap \ell_{14} = a_4 \cap c_{14}$
$P_{33516} = (11,22,31,1) = \ell_3 \cap \ell_{18} = a_4 \cap c_{24}$
$P_{33776} = (15,30,31,1) = \ell_3 \cap \ell_{21} = a_4 \cap c_{34}$
$P_{33696} = (31,27,31,1) = \ell_3 \cap \ell_{25} = a_4 \cap c_{46}$
$P_{16876} = (11,14,15,1) = \ell_4 \cap \ell_6 = a_5 \cap b_1$
$P_{17354} = (9,29,15,1) = \ell_4 \cap \ell_7 = a_5 \cap b_2$

$P_{17279} = (30, 26, 15, 1) = \ell_4 \cap \ell_8 = a_5 \cap b_3$
$P_{35} = (31, 1, 0, 0) = \ell_4 \cap \ell_{11} = a_5 \cap b_6$
$P_{16564} = (19, 4, 15, 1) = \ell_4 \cap \ell_{15} = a_5 \cap c_{15}$
$P_{16517} = (4, 3, 15, 1) = \ell_4 \cap \ell_{19} = a_5 \cap c_{25}$
$P_{17099} = (10, 21, 15, 1) = \ell_4 \cap \ell_{22} = a_5 \cap c_{35}$
$P_{16848} = (15, 13, 15, 1) = \ell_4 \cap \ell_{26} = a_5 \cap c_{56}$
$P_{5656} = (23, 15, 4, 1) = \ell_5 \cap \ell_6 = a_6 \cap b_1$
$P_{32489} = (8, 22, 30, 1) = \ell_5 \cap \ell_7 = a_6 \cap b_2$
$P_{14952} = (7, 18, 13, 1) = \ell_5 \cap \ell_8 = a_6 \cap b_3$
$P_{19330} = (1, 27, 17, 1) = \ell_5 \cap \ell_9 = a_6 \cap b_4$
$P_{23341} = (12, 24, 21, 1) = \ell_5 \cap \ell_{10} = a_6 \cap b_5$
$P_{20128} = (31, 19, 18, 1) = \ell_5 \cap \ell_{16} = a_6 \cap c_{16}$
$P_{10827} = (10, 17, 9, 1) = \ell_5 \cap \ell_{20} = a_6 \cap c_{26}$
$P_{12415} = (30, 2, 11, 1) = \ell_5 \cap \ell_{23} = a_6 \cap c_{36}$
$P_{33219} = (2, 13, 31, 1) = \ell_5 \cap \ell_{25} = a_6 \cap c_{46}$
$P_{16468} = (19, 1, 15, 1) = \ell_5 \cap \ell_{26} = a_6 \cap c_{56}$
$P_{26534} = (5, 28, 24, 1) = \ell_6 \cap \ell_{12} = b_1 \cap c_{12}$
$P_{4642} = (1, 16, 3, 1) = \ell_6 \cap \ell_{13} = b_1 \cap c_{13}$
$P_{11967} = (30, 20, 10, 1) = \ell_6 \cap \ell_{14} = b_1 \cap c_{14}$
$P_{29014} = (21, 9, 27, 1) = \ell_6 \cap \ell_{15} = b_1 \cap c_{15}$
$P_{19915} = (10, 13, 18, 1) = \ell_6 \cap \ell_{16} = b_1 \cap c_{16}$
$P_{30430} = (29, 21, 28, 1) = \ell_7 \cap \ell_{12} = b_2 \cap c_{12}$
$P_{15858} = (17, 14, 14, 1) = \ell_7 \cap \ell_{17} = b_2 \cap c_{23}$
$P_{30950} = (5, 6, 29, 1) = \ell_7 \cap \ell_{18} = b_2 \cap c_{24}$
$P_{22340} = (3, 25, 20, 1) = \ell_7 \cap \ell_{19} = b_2 \cap c_{25}$
$P_{11060} = (19, 24, 9, 1) = \ell_7 \cap \ell_{20} = b_2 \cap c_{26}$
$P_{25284} = (3, 21, 23, 1) = \ell_8 \cap \ell_{13} = b_3 \cap c_{13}$
$P_{27810} = (1, 4, 26, 1) = \ell_8 \cap \ell_{17} = b_3 \cap c_{23}$
$P_{3485} = (28, 11, 2, 1) = \ell_8 \cap \ell_{21} = b_3 \cap c_{34}$
$P_{9455} = (14, 6, 8, 1) = \ell_8 \cap \ell_{22} = b_3 \cap c_{35}$
$P_{12650} = (9, 10, 11, 1) = \ell_8 \cap \ell_{23} = b_3 \cap c_{36}$
$P_{9508} = (3, 8, 8, 1) = \ell_9 \cap \ell_{14} = b_4 \cap c_{14}$
$P_{25527} = (22, 28, 23, 1) = \ell_9 \cap \ell_{18} = b_4 \cap c_{24}$
$P_{8978} = (17, 23, 7, 1) = \ell_9 \cap \ell_{21} = b_4 \cap c_{34}$
$P_{33160} = (7, 11, 31, 1) = \ell_9 \cap \ell_{25} = b_4 \cap c_{46}$
$P_{13410} = (1, 2, 12, 1) = \ell_{10} \cap \ell_{15} = b_5 \cap c_{15}$
$P_{11622} = (5, 10, 10, 1) = \ell_{10} \cap \ell_{19} = b_5 \cap c_{25}$
$P_{26394} = (25, 23, 24, 1) = \ell_{10} \cap \ell_{22} = b_5 \cap c_{35}$
$P_{16612} = (3, 6, 15, 1) = \ell_{10} \cap \ell_{26} = b_5 \cap c_{56}$
$P_{13} = (9, 1, 0, 0) = \ell_{11} \cap \ell_{16} = b_6 \cap c_{16}$
$P_{15} = (11, 1, 0, 0) = \ell_{11} \cap \ell_{20} = b_6 \cap c_{26}$
$P_{19} = (15, 1, 0, 0) = \ell_{11} \cap \ell_{23} = b_6 \cap c_{36}$
$P_{23} = (19, 1, 0, 0) = \ell_{11} \cap \ell_{25} = b_6 \cap c_{46}$
$P_{34} = (30, 1, 0, 0) = \ell_{11} \cap \ell_{26} = b_6 \cap c_{56}$
$P_{6594} = (1, 13, 5, 1) = \ell_{12} \cap \ell_{21} = c_{12} \cap c_{34}$
$P_{21147} = (26, 19, 19, 1) = \ell_{12} \cap \ell_{22} = c_{12} \cap c_{35}$
$P_{33080} = (23, 8, 31, 1) = \ell_{12} \cap \ell_{25} = c_{12} \cap c_{46}$
$P_{16729} = (24, 9, 15, 1) = \ell_{12} \cap \ell_{26} = c_{12} \cap c_{56}$
$P_{32749} = (12, 30, 30, 1) = \ell_{13} \cap \ell_{18} = c_{13} \cap c_{24}$
$P_{22805} = (20, 7, 21, 1) = \ell_{13} \cap \ell_{19} = c_{13} \cap c_{25}$
$P_{33558} = (21, 23, 31, 1) = \ell_{13} \cap \ell_{25} = c_{13} \cap c_{46}$
$P_{17053} = (28, 19, 15, 1) = \ell_{13} \cap \ell_{26} = c_{13} \cap c_{56}$
$P_{8999} = (6, 24, 7, 1) = \ell_{14} \cap \ell_{17} = c_{14} \cap c_{23}$
$P_{7931} = (26, 22, 6, 1) = \ell_{14} \cap \ell_{19} = c_{14} \cap c_{25}$
$P_{10496} = (31, 6, 9, 1) = \ell_{14} \cap \ell_{20} = c_{14} \cap c_{26}$
$P_{27597} = (12, 29, 25, 1) = \ell_{14} \cap \ell_{22} = c_{14} \cap c_{35}$
$P_{13155} = (2, 26, 11, 1) = \ell_{14} \cap \ell_{23} = c_{14} \cap c_{36}$
$P_{16670} = (29, 7, 15, 1) = \ell_{14} \cap \ell_{26} = c_{14} \cap c_{56}$
$P_{29979} = (26, 7, 28, 1) = \ell_{15} \cap \ell_{17} = c_{15} \cap c_{23}$
$P_{21323} = (10, 25, 19, 1) = \ell_{15} \cap \ell_{18} = c_{15} \cap c_{24}$
$P_{10547} = (18, 8, 9, 1) = \ell_{15} \cap \ell_{20} = c_{15} \cap c_{26}$
$P_{18457} = (24, 31, 16, 1) = \ell_{15} \cap \ell_{21} = c_{15} \cap c_{34}$
$P_{12719} = (14, 12, 11, 1) = \ell_{15} \cap \ell_{23} = c_{15} \cap c_{36}$
$P_{32841} = (8, 1, 31, 1) = \ell_{15} \cap \ell_{25} = c_{15} \cap c_{46}$
$P_{20046} = (13, 17, 18, 1) = \ell_{16} \cap \ell_{18} = c_{16} \cap c_{24}$
$P_{20255} = (30, 23, 18, 1) = \ell_{16} \cap \ell_{19} = c_{16} \cap c_{25}$
$P_{19657} = (8, 5, 18, 1) = \ell_{16} \cap \ell_{21} = c_{16} \cap c_{34}$
$P_{20304} = (15, 25, 18, 1) = \ell_{16} \cap \ell_{22} = c_{16} \cap c_{35}$
$P_{33446} = (5, 20, 31, 1) = \ell_{17} \cap \ell_{25} = c_{23} \cap c_{46}$
$P_{17320} = (7, 28, 15, 1) = \ell_{17} \cap \ell_{26} = c_{23} \cap c_{56}$
$P_{24242} = (17, 20, 22, 1) = \ell_{18} \cap \ell_{22} = c_{24} \cap c_{35}$
$P_{12553} = (8, 7, 11, 1) = \ell_{18} \cap \ell_{23} = c_{24} \cap c_{36}$
$P_{16501} = (20, 2, 15, 1) = \ell_{18} \cap \ell_{26} = c_{24} \cap c_{56}$
$P_{16340} = (19, 29, 14, 1) = \ell_{19} \cap \ell_{21} = c_{25} \cap c_{34}$
$P_{12979} = (18, 20, 11, 1) = \ell_{19} \cap \ell_{23} = c_{25} \cap c_{36}$
$P_{33495} = (22, 21, 31, 1) = \ell_{19} \cap \ell_{25} = c_{25} \cap c_{46}$
$P_{11151} = (14, 27, 9, 1) = \ell_{20} \cap \ell_{21} = c_{26} \cap c_{34}$
$P_{10684} = (27, 12, 9, 1) = \ell_{20} \cap \ell_{22} = c_{26} \cap c_{35}$
$P_{16956} = (27, 16, 15, 1) = \ell_{21} \cap \ell_{26} = c_{34} \cap c_{56}$
$P_{32958} = (29, 4, 31, 1) = \ell_{22} \cap \ell_{25} = c_{35} \cap c_{46}$

Single Points

The surface has 636 single points:
The single points on the surface are:

$0:\ P_0 = (1, 0, 0, 0)$ lies on line b_6
$1:\ P_1 = (0, 1, 0, 0)$ lies on line b_6
$2:\ P_2 = (0, 0, 1, 0)$ lies on line c_{45}
$3:\ P_3 = (0, 0, 0, 1)$ lies on line c_{45}
$4:\ P_5 = (1, 1, 0, 0)$ lies on line b_6
$5:\ P_6 = (2, 1, 0, 0)$ lies on line b_6
$6:\ P_7 = (3, 1, 0, 0)$ lies on line b_6
$7:\ P_8 = (4, 1, 0, 0)$ lies on line b_6
$8:\ P_9 = (5, 1, 0, 0)$ lies on line b_6
$9:\ P_{10} = (6, 1, 0, 0)$ lies on line b_6
$10:\ P_{11} = (7, 1, 0, 0)$ lies on line b_6
$11:\ P_{16} = (12, 1, 0, 0)$ lies on line b_6

12 : $P_{17} = (13, 1, 0, 0)$ lies on line b_6
13 : $P_{20} = (16, 1, 0, 0)$ lies on line b_6
14 : $P_{21} = (17, 1, 0, 0)$ lies on line b_6
15 : $P_{24} = (20, 1, 0, 0)$ lies on line b_6
16 : $P_{25} = (21, 1, 0, 0)$ lies on line b_6
17 : $P_{26} = (22, 1, 0, 0)$ lies on line b_6
18 : $P_{27} = (23, 1, 0, 0)$ lies on line b_6
19 : $P_{28} = (24, 1, 0, 0)$ lies on line b_6
20 : $P_{29} = (25, 1, 0, 0)$ lies on line b_6
21 : $P_{30} = (26, 1, 0, 0)$ lies on line b_6
22 : $P_{31} = (27, 1, 0, 0)$ lies on line b_6
23 : $P_{32} = (28, 1, 0, 0)$ lies on line b_6
24 : $P_{33} = (29, 1, 0, 0)$ lies on line b_6
25 : $P_{113} = (14, 2, 1, 0)$ lies on line c_{15}
26 : $P_{193} = (30, 4, 1, 0)$ lies on line b_3
27 : $P_{298} = (7, 8, 1, 0)$ lies on line c_{24}
28 : $P_{348} = (25, 9, 1, 0)$ lies on line c_{13}
29 : $P_{376} = (21, 10, 1, 0)$ lies on line c_{35}
30 : $P_{393} = (6, 11, 1, 0)$ lies on line c_{12}
31 : $P_{459} = (8, 13, 1, 0)$ lies on line c_{34}
32 : $P_{511} = (28, 14, 1, 0)$ lies on line c_{14}
33 : $P_{535} = (20, 15, 1, 0)$ lies on line b_4
34 : $P_{566} = (19, 16, 1, 0)$ lies on line b_1
35 : $P_{633} = (22, 18, 1, 0)$ lies on line c_{23}
36 : $P_{667} = (24, 19, 1, 0)$ lies on line b_2
37 : $P_{909} = (10, 27, 1, 0)$ lies on line a_6
38 : $P_{1018} = (23, 30, 1, 0)$ lies on line c_{25}
39 : $P_{1056} = (29, 31, 1, 0)$ lies on line b_5
40 : $P_{1159} = (5, 3, 0, 1)$ lies on line b_3
41 : $P_{1235} = (17, 5, 0, 1)$ lies on line b_1
42 : $P_{1303} = (21, 7, 0, 1)$ lies on line b_2
43 : $P_{1357} = (11, 9, 0, 1)$ lies on line c_{23}
44 : $P_{1425} = (15, 11, 0, 1)$ lies on line c_{13}
45 : $P_{1468} = (26, 12, 0, 1)$ lies on line a_6
46 : $P_{1569} = (31, 15, 0, 1)$ lies on line c_{12}
47 : $P_{1614} = (12, 17, 0, 1)$ lies on line c_{34}
48 : $P_{1643} = (9, 18, 0, 1)$ lies on line b_5
49 : $P_{1758} = (28, 21, 0, 1)$ lies on line c_{24}
50 : $P_{1818} = (24, 23, 0, 1)$ lies on line c_{14}
51 : $P_{1833} = (7, 24, 0, 1)$ lies on line c_{25}
52 : $P_{1893} = (3, 26, 0, 1)$ lies on line c_{15}
53 : $P_{1977} = (23, 28, 0, 1)$ lies on line c_{35}
54 : $P_{2068} = (18, 31, 0, 1)$ lies on line b_4
55 : $P_{2082} = (0, 0, 1, 1)$ lies on line c_{45}
56 : $P_{2167} = (22, 2, 1, 1)$ lies on line c_{13}
57 : $P_{2234} = (25, 4, 1, 1)$ lies on line c_{12}
58 : $P_{2289} = (16, 6, 1, 1)$ lies on line c_{25}
59 : $P_{2332} = (27, 7, 1, 1)$ lies on line b_3
60 : $P_{2517} = (20, 13, 1, 1)$ lies on line b_5
61 : $P_{2599} = (6, 16, 1, 1)$ lies on line b_4
62 : $P_{2734} = (13, 20, 1, 1)$ lies on line b_2
63 : $P_{2755} = (2, 21, 1, 1)$ lies on line b_1
64 : $P_{2787} = (2, 22, 1, 1)$ lies on line c_{35}
65 : $P_{2833} = (16, 23, 1, 1)$ lies on line a_6
66 : $P_{2862} = (13, 24, 1, 1)$ lies on line c_{15}
67 : $P_{2885} = (4, 25, 1, 1)$ lies on line c_{14}
68 : $P_{2974} = (29, 27, 1, 1)$ lies on line c_{23}
69 : $P_{2981} = (4, 28, 1, 1)$ lies on line c_{34}
70 : $P_{3036} = (27, 29, 1, 1)$ lies on line c_{24}
71 : $P_{3105} = (0, 0, 2, 1)$ lies on line c_{45}
72 : $P_{3123} = (18, 0, 2, 1)$ lies on line b_1
73 : $P_{3149} = (12, 1, 2, 1)$ lies on line c_{25}
74 : $P_{3168} = (31, 1, 2, 1)$ lies on line b_4
75 : $P_{3233} = (0, 4, 2, 1)$ lies on line b_2
76 : $P_{3283} = (18, 5, 2, 1)$ lies on line c_{24}
77 : $P_{3363} = (2, 8, 2, 1)$ lies on line c_{23}
78 : $P_{3385} = (24, 8, 2, 1)$ lies on line c_{35}
79 : $P_{3415} = (22, 9, 2, 1)$ lies on line b_5
80 : $P_{3462} = (5, 11, 2, 1)$ lies on line c_{14}
81 : $P_{3924} = (19, 25, 2, 1)$ lies on line c_{12}
82 : $P_{3929} = (24, 25, 2, 1)$ lies on line c_{13}
83 : $P_{4096} = (31, 30, 2, 1)$ lies on line c_{15}
84 : $P_{4111} = (14, 31, 2, 1)$ lies on line a_6
85 : $P_{4129} = (0, 0, 3, 1)$ lies on line c_{45}
86 : $P_{4206} = (13, 2, 3, 1)$ lies on line c_{35}
87 : $P_{4261} = (4, 4, 3, 1)$ lies on line a_6
88 : $P_{4314} = (25, 5, 3, 1)$ lies on line c_{14}
89 : $P_{4341} = (20, 6, 3, 1)$ lies on line c_{34}
90 : $P_{4566} = (21, 13, 3, 1)$ lies on line c_{24}
91 : $P_{4588} = (11, 14, 3, 1)$ lies on line b_4
92 : $P_{4611} = (2, 15, 3, 1)$ lies on line b_3
93 : $P_{4726} = (21, 18, 3, 1)$ lies on line c_{12}
94 : $P_{4844} = (11, 22, 3, 1)$ lies on line b_5
95 : $P_{4889} = (24, 23, 3, 1)$ lies on line b_2
96 : $P_{4981} = (20, 26, 3, 1)$ lies on line c_{23}
97 : $P_{5042} = (17, 28, 3, 1)$ lies on line c_{15}
98 : $P_{5148} = (27, 31, 3, 1)$ lies on line c_{25}
99 : $P_{5153} = (0, 0, 4, 1)$ lies on line c_{45}
100 : $P_{5162} = (9, 0, 4, 1)$ lies on line c_{34}
101 : $P_{5203} = (18, 1, 4, 1)$ lies on line b_5
102 : $P_{5211} = (26, 1, 4, 1)$ lies on line b_2
103 : $P_{5352} = (7, 6, 4, 1)$ lies on line c_{12}
104 : $P_{5353} = (8, 6, 4, 1)$ lies on line b_4
105 : $P_{5477} = (4, 10, 4, 1)$ lies on line c_{13}
106 : $P_{5480} = (7, 10, 4, 1)$ lies on line c_{14}
107 : $P_{5530} = (25, 11, 4, 1)$ lies on line c_{23}
108 : $P_{5650} = (17, 15, 4, 1)$ lies on line c_{25}
109 : $P_{5665} = (0, 16, 4, 1)$ lies on line c_{24}
110 : $P_{5706} = (9, 17, 4, 1)$ lies on line c_{35}
111 : $P_{5759} = (30, 18, 4, 1)$ lies on line c_{15}
112 : $P_{5779} = (18, 19, 4, 1)$ lies on line b_3
113 : $P_{6177} = (0, 0, 5, 1)$ lies on line c_{45}
114 : $P_{6302} = (29, 3, 5, 1)$ lies on line c_{13}
115 : $P_{6332} = (27, 4, 5, 1)$ lies on line c_{14}
116 : $P_{6493} = (28, 9, 5, 1)$ lies on line b_4
117 : $P_{6705} = (16, 16, 5, 1)$ lies on line c_{15}
118 : $P_{6727} = (6, 17, 5, 1)$ lies on line c_{25}
119 : $P_{6755} = (2, 18, 5, 1)$ lies on line b_2

120 : $P_{6846} = (29, 20, 5, 1)$ lies on line a_6
121 : $P_{6925} = (12, 23, 5, 1)$ lies on line b_3
122 : $P_{6952} = (7, 24, 5, 1)$ lies on line c_{24}
123 : $P_{6992} = (15, 25, 5, 1)$ lies on line c_{23}
124 : $P_{7069} = (28, 27, 5, 1)$ lies on line c_{35}
125 : $P_{7152} = (15, 30, 5, 1)$ lies on line b_5
126 : $P_{7173} = (4, 31, 5, 1)$ lies on line b_1
127 : $P_{7201} = (0, 0, 6, 1)$ lies on line c_{45}
128 : $P_{7215} = (14, 0, 6, 1)$ lies on line c_{24}
129 : $P_{7280} = (15, 2, 6, 1)$ lies on line b_2
130 : $P_{7367} = (6, 5, 6, 1)$ lies on line c_{35}
131 : $P_{7537} = (16, 10, 6, 1)$ lies on line c_{23}
132 : $P_{7541} = (20, 10, 6, 1)$ lies on line b_1
133 : $P_{7724} = (11, 16, 6, 1)$ lies on line c_{12}
134 : $P_{7907} = (2, 22, 6, 1)$ lies on line c_{15}
135 : $P_{7974} = (5, 24, 6, 1)$ lies on line b_4
136 : $P_{7988} = (19, 24, 6, 1)$ lies on line c_{13}
137 : $P_{8046} = (13, 26, 6, 1)$ lies on line b_5
138 : $P_{8058} = (25, 26, 6, 1)$ lies on line c_{34}
139 : $P_{8076} = (11, 27, 6, 1)$ lies on line b_3
140 : $P_{8100} = (3, 28, 6, 1)$ lies on line a_6
141 : $P_{8225} = (0, 0, 7, 1)$ lies on line c_{45}
142 : $P_{8401} = (16, 5, 7, 1)$ lies on line b_5
143 : $P_{8458} = (9, 7, 7, 1)$ lies on line a_6
144 : $P_{8490} = (9, 8, 7, 1)$ lies on line c_{24}
145 : $P_{8494} = (13, 8, 7, 1)$ lies on line c_{25}
146 : $P_{8724} = (19, 15, 7, 1)$ lies on line c_{35}
147 : $P_{8779} = (10, 17, 7, 1)$ lies on line c_{13}
148 : $P_{8792} = (23, 17, 7, 1)$ lies on line b_2
149 : $P_{8877} = (12, 20, 7, 1)$ lies on line c_{15}
150 : $P_{9064} = (7, 26, 7, 1)$ lies on line b_1
151 : $P_{9102} = (13, 27, 7, 1)$ lies on line c_{12}
152 : $P_{9238} = (21, 31, 7, 1)$ lies on line b_3
153 : $P_{9249} = (0, 0, 8, 1)$ lies on line c_{45}
154 : $P_{9562} = (25, 9, 8, 1)$ lies on line c_{13}
155 : $P_{9569} = (0, 10, 8, 1)$ lies on line a_6
156 : $P_{9597} = (28, 10, 8, 1)$ lies on line c_{15}
157 : $P_{9612} = (11, 11, 8, 1)$ lies on line b_2
158 : $P_{9675} = (10, 13, 8, 1)$ lies on line c_{23}
159 : $P_{9819} = (26, 17, 8, 1)$ lies on line b_5
160 : $P_{9822} = (29, 17, 8, 1)$ lies on line b_1
161 : $P_{9871} = (14, 19, 8, 1)$ lies on line c_{25}
162 : $P_{9959} = (6, 22, 8, 1)$ lies on line c_{34}
163 : $P_{10187} = (10, 29, 8, 1)$ lies on line c_{12}
164 : $P_{10242} = (1, 31, 8, 1)$ lies on line c_{24}
165 : $P_{10277} = (4, 0, 9, 1)$ lies on line a_2
166 : $P_{10316} = (11, 1, 9, 1)$ lies on line c_{26}
167 : $P_{10359} = (22, 2, 9, 1)$ lies on line c_{26}
168 : $P_{10395} = (26, 3, 9, 1)$ lies on line a_2
169 : $P_{10398} = (29, 3, 9, 1)$ lies on line c_{26}
170 : $P_{10435} = (2, 5, 9, 1)$ lies on line c_{26}
171 : $P_{10436} = (3, 5, 9, 1)$ lies on line a_2
172 : $P_{10494} = (29, 6, 9, 1)$ lies on line a_2
173 : $P_{10517} = (20, 7, 9, 1)$ lies on line c_{26}
174 : $P_{10559} = (30, 8, 9, 1)$ lies on line a_2
175 : $P_{10581} = (20, 9, 9, 1)$ lies on line a_2
176 : $P_{10586} = (25, 9, 9, 1)$ lies on line c_{26}
177 : $P_{10597} = (4, 10, 9, 1)$ lies on line c_{26}
178 : $P_{10603} = (10, 10, 9, 1)$ lies on line a_2
179 : $P_{10625} = (0, 11, 9, 1)$ lies on line a_2
180 : $P_{10640} = (15, 11, 9, 1)$ lies on line c_{26}
181 : $P_{10676} = (19, 12, 9, 1)$ lies on line a_2
182 : $P_{10705} = (16, 13, 9, 1)$ lies on line c_{26}
183 : $P_{10734} = (13, 14, 9, 1)$ lies on line c_{26}
184 : $P_{10759} = (6, 15, 9, 1)$ lies on line c_{26}
185 : $P_{10766} = (13, 15, 9, 1)$ lies on line a_2
186 : $P_{10786} = (1, 16, 9, 1)$ lies on line c_{26}
187 : $P_{10806} = (21, 16, 9, 1)$ lies on line a_2
188 : $P_{10848} = (31, 17, 9, 1)$ lies on line a_2
189 : $P_{10850} = (1, 18, 9, 1)$ lies on line a_2
190 : $P_{10872} = (23, 18, 9, 1)$ lies on line c_{26}
191 : $P_{10892} = (11, 19, 9, 1)$ lies on line a_2
192 : $P_{10909} = (28, 19, 9, 1)$ lies on line c_{26}
193 : $P_{10921} = (8, 20, 9, 1)$ lies on line c_{26}
194 : $P_{10937} = (24, 20, 9, 1)$ lies on line a_2
195 : $P_{10948} = (3, 21, 9, 1)$ lies on line c_{26}
196 : $P_{10963} = (18, 21, 9, 1)$ lies on line a_2
197 : $P_{11007} = (30, 22, 9, 1)$ lies on line c_{26}
198 : $P_{11030} = (21, 23, 9, 1)$ lies on line c_{26}
199 : $P_{11056} = (15, 24, 9, 1)$ lies on line a_2
200 : $P_{11078} = (5, 25, 9, 1)$ lies on line a_2
201 : $P_{11097} = (24, 25, 9, 1)$ lies on line c_{26}
202 : $P_{11110} = (5, 26, 9, 1)$ lies on line c_{26}
203 : $P_{11132} = (27, 26, 9, 1)$ lies on line a_2
204 : $P_{11154} = (17, 27, 9, 1)$ lies on line a_2
205 : $P_{11171} = (2, 28, 9, 1)$ lies on line a_2
206 : $P_{11195} = (26, 28, 9, 1)$ lies on line c_{26}
207 : $P_{11209} = (8, 29, 9, 1)$ lies on line a_2
208 : $P_{11218} = (17, 29, 9, 1)$ lies on line c_{26}
209 : $P_{11245} = (12, 30, 9, 1)$ lies on line c_{26}
210 : $P_{11255} = (22, 30, 9, 1)$ lies on line a_2
211 : $P_{11272} = (7, 31, 9, 1)$ lies on line c_{26}
212 : $P_{11297} = (0, 0, 10, 1)$ lies on line c_{45}
213 : $P_{11583} = (30, 8, 10, 1)$ lies on line b_2
214 : $P_{11655} = (6, 11, 10, 1)$ lies on line c_{12}
215 : $P_{11684} = (3, 12, 10, 1)$ lies on line c_{23}
216 : $P_{11703} = (22, 12, 10, 1)$ lies on line c_{34}
217 : $P_{11745} = (0, 14, 10, 1)$ lies on line c_{15}
218 : $P_{11768} = (23, 14, 10, 1)$ lies on line b_3
219 : $P_{11792} = (15, 15, 10, 1)$ lies on line c_{24}
220 : $P_{11874} = (1, 18, 10, 1)$ lies on line c_{35}
221 : $P_{12015} = (14, 22, 10, 1)$ lies on line b_4
222 : $P_{12117} = (20, 25, 10, 1)$ lies on line a_6
223 : $P_{12175} = (14, 27, 10, 1)$ lies on line c_{13}
224 : $P_{12337} = (16, 0, 11, 1)$ lies on line a_3
225 : $P_{12368} = (15, 1, 11, 1)$ lies on line c_{36}
226 : $P_{12397} = (12, 2, 11, 1)$ lies on line a_3
227 : $P_{12419} = (2, 3, 11, 1)$ lies on line a_3

228 : $P_{12434} = (17, 3, 11, 1)$ lies on line c_{36}
229 : $P_{12474} = (25, 4, 11, 1)$ lies on line c_{36}
230 : $P_{12484} = (3, 5, 11, 1)$ lies on line a_3
231 : $P_{12503} = (22, 5, 11, 1)$ lies on line c_{36}
232 : $P_{12520} = (7, 6, 11, 1)$ lies on line c_{36}
233 : $P_{12530} = (17, 6, 11, 1)$ lies on line a_3
234 : $P_{12576} = (31, 7, 11, 1)$ lies on line a_3
235 : $P_{12592} = (15, 8, 11, 1)$ lies on line a_3
236 : $P_{12600} = (23, 8, 11, 1)$ lies on line c_{36}
237 : $P_{12610} = (1, 9, 11, 1)$ lies on line a_3
238 : $P_{12633} = (24, 9, 11, 1)$ lies on line c_{36}
239 : $P_{12660} = (19, 10, 11, 1)$ lies on line a_3
240 : $P_{12679} = (6, 11, 11, 1)$ lies on line c_{36}
241 : $P_{12702} = (29, 11, 11, 1)$ lies on line a_3
242 : $P_{12723} = (18, 12, 11, 1)$ lies on line a_3
243 : $P_{12738} = (1, 13, 11, 1)$ lies on line c_{36}
244 : $P_{12765} = (28, 13, 11, 1)$ lies on line a_3
245 : $P_{12783} = (14, 14, 11, 1)$ lies on line a_3
246 : $P_{12785} = (16, 14, 11, 1)$ lies on line c_{36}
247 : $P_{12801} = (0, 15, 11, 1)$ lies on line a_3
248 : $P_{12832} = (31, 15, 11, 1)$ lies on line c_{36}
249 : $P_{12869} = (4, 17, 11, 1)$ lies on line c_{36}
250 : $P_{12870} = (5, 17, 11, 1)$ lies on line a_3
251 : $P_{12918} = (21, 18, 11, 1)$ lies on line c_{36}
252 : $P_{12954} = (25, 19, 11, 1)$ lies on line a_3
253 : $P_{12955} = (26, 19, 11, 1)$ lies on line c_{36}
254 : $P_{12983} = (22, 20, 11, 1)$ lies on line a_3
255 : $P_{13022} = (29, 21, 11, 1)$ lies on line c_{36}
256 : $P_{13035} = (10, 22, 11, 1)$ lies on line a_3
257 : $P_{13037} = (12, 22, 11, 1)$ lies on line c_{36}
258 : $P_{13060} = (3, 23, 11, 1)$ lies on line c_{36}
259 : $P_{13061} = (4, 23, 11, 1)$ lies on line a_3
260 : $P_{13117} = (28, 24, 11, 1)$ lies on line c_{36}
261 : $P_{13140} = (19, 25, 11, 1)$ lies on line c_{36}
262 : $P_{13161} = (8, 26, 11, 1)$ lies on line a_3
263 : $P_{13198} = (13, 27, 11, 1)$ lies on line c_{36}
264 : $P_{13222} = (5, 28, 11, 1)$ lies on line c_{36}
265 : $P_{13226} = (9, 28, 11, 1)$ lies on line a_3
266 : $P_{13256} = (7, 29, 11, 1)$ lies on line a_3
267 : $P_{13259} = (10, 29, 11, 1)$ lies on line c_{36}
268 : $P_{13308} = (27, 30, 11, 1)$ lies on line c_{36}
269 : $P_{13333} = (20, 31, 11, 1)$ lies on line c_{36}
270 : $P_{13340} = (27, 31, 11, 1)$ lies on line a_3
271 : $P_{13345} = (0, 0, 12, 1)$ lies on line c_{45}
272 : $P_{13497} = (24, 4, 12, 1)$ lies on line c_{25}
273 : $P_{13572} = (3, 7, 12, 1)$ lies on line c_{34}
274 : $P_{13619} = (18, 8, 12, 1)$ lies on line c_{13}
275 : $P_{13646} = (13, 9, 12, 1)$ lies on line a_6
276 : $P_{13713} = (16, 11, 12, 1)$ lies on line c_{35}
277 : $P_{13765} = (4, 13, 12, 1)$ lies on line b_2
278 : $P_{13849} = (24, 15, 12, 1)$ lies on line c_{23}
279 : $P_{13914} = (25, 17, 12, 1)$ lies on line b_4
280 : $P_{14003} = (18, 20, 12, 1)$ lies on line c_{12}
281 : $P_{14045} = (28, 21, 12, 1)$ lies on line c_{14}
282 : $P_{14074} = (25, 22, 12, 1)$ lies on line b_3
283 : $P_{14206} = (29, 26, 12, 1)$ lies on line c_{24}
284 : $P_{14236} = (27, 27, 12, 1)$ lies on line b_1
285 : $P_{14369} = (0, 0, 13, 1)$ lies on line c_{45}
286 : $P_{14384} = (15, 0, 13, 1)$ lies on line c_{15}
287 : $P_{14406} = (5, 1, 13, 1)$ lies on line c_{35}
288 : $P_{14412} = (11, 1, 13, 1)$ lies on line c_{13}
289 : $P_{14700} = (11, 10, 13, 1)$ lies on line c_{34}
290 : $P_{14729} = (8, 11, 13, 1)$ lies on line b_1
291 : $P_{14971} = (26, 18, 13, 1)$ lies on line c_{24}
292 : $P_{15216} = (15, 26, 13, 1)$ lies on line c_{25}
293 : $P_{15233} = (0, 27, 13, 1)$ lies on line c_{14}
294 : $P_{15311} = (14, 29, 13, 1)$ lies on line c_{23}
295 : $P_{15325} = (28, 29, 13, 1)$ lies on line b_5
296 : $P_{15342} = (13, 30, 13, 1)$ lies on line b_4
297 : $P_{15357} = (28, 30, 13, 1)$ lies on line b_2
298 : $P_{15381} = (20, 31, 13, 1)$ lies on line c_{12}
299 : $P_{15393} = (0, 0, 14, 1)$ lies on line c_{45}
300 : $P_{15487} = (30, 2, 14, 1)$ lies on line c_{12}
301 : $P_{15614} = (29, 6, 14, 1)$ lies on line c_{15}
302 : $P_{15682} = (1, 9, 14, 1)$ lies on line c_{14}
303 : $P_{15732} = (19, 10, 14, 1)$ lies on line c_{24}
304 : $P_{15893} = (20, 15, 14, 1)$ lies on line b_4
305 : $P_{16223} = (30, 25, 14, 1)$ lies on line b_5
306 : $P_{16230} = (5, 26, 14, 1)$ lies on line c_{13}
307 : $P_{16250} = (25, 26, 14, 1)$ lies on line a_6
308 : $P_{16353} = (0, 30, 14, 1)$ lies on line b_3
309 : $P_{16377} = (24, 30, 14, 1)$ lies on line b_1
310 : $P_{16416} = (31, 31, 14, 1)$ lies on line c_{35}
311 : $P_{16430} = (13, 0, 15, 1)$ lies on line c_{56}
312 : $P_{16480} = (31, 1, 15, 1)$ lies on line a_5
313 : $P_{16508} = (27, 2, 15, 1)$ lies on line a_5
314 : $P_{16523} = (10, 3, 15, 1)$ lies on line c_{56}
315 : $P_{16571} = (26, 4, 15, 1)$ lies on line c_{56}
316 : $P_{16581} = (4, 5, 15, 1)$ lies on line c_{56}
317 : $P_{16589} = (12, 5, 15, 1)$ lies on line a_5
318 : $P_{16617} = (8, 6, 15, 1)$ lies on line a_5
319 : $P_{16664} = (23, 7, 15, 1)$ lies on line a_5
320 : $P_{16676} = (3, 8, 15, 1)$ lies on line a_5
321 : $P_{16679} = (6, 8, 15, 1)$ lies on line c_{56}
322 : $P_{16733} = (28, 9, 15, 1)$ lies on line a_5
323 : $P_{16761} = (24, 10, 15, 1)$ lies on line a_5
324 : $P_{16768} = (31, 10, 15, 1)$ lies on line c_{56}
325 : $P_{16770} = (1, 11, 15, 1)$ lies on line c_{56}
326 : $P_{16776} = (7, 11, 15, 1)$ lies on line a_5
327 : $P_{16817} = (16, 12, 15, 1)$ lies on line a_5
328 : $P_{16818} = (17, 12, 15, 1)$ lies on line c_{56}
329 : $P_{16873} = (8, 14, 15, 1)$ lies on line c_{56}
330 : $P_{16917} = (20, 15, 15, 1)$ lies on line a_5
331 : $P_{16919} = (22, 15, 15, 1)$ lies on line c_{56}
332 : $P_{16935} = (6, 16, 15, 1)$ lies on line a_5
333 : $P_{16966} = (5, 17, 15, 1)$ lies on line c_{56}
334 : $P_{16986} = (25, 17, 15, 1)$ lies on line a_5
335 : $P_{16995} = (2, 18, 15, 1)$ lies on line c_{56}

336 : $P_{17022} = (29, 18, 15, 1)$ lies on line a_5
337 : $P_{17027} = (2, 19, 15, 1)$ lies on line a_5
338 : $P_{17069} = (12, 20, 15, 1)$ lies on line c_{56}
339 : $P_{17078} = (21, 20, 15, 1)$ lies on line a_5
340 : $P_{17107} = (18, 21, 15, 1)$ lies on line c_{56}
341 : $P_{17135} = (14, 22, 15, 1)$ lies on line a_5
342 : $P_{17142} = (21, 22, 15, 1)$ lies on line c_{56}
343 : $P_{17164} = (11, 23, 15, 1)$ lies on line c_{56}
344 : $P_{17170} = (17, 23, 15, 1)$ lies on line a_5
345 : $P_{17190} = (5, 24, 15, 1)$ lies on line a_5
346 : $P_{17201} = (16, 24, 15, 1)$ lies on line c_{56}
347 : $P_{17231} = (14, 25, 15, 1)$ lies on line c_{56}
348 : $P_{17243} = (26, 25, 15, 1)$ lies on line a_5
349 : $P_{17258} = (9, 26, 15, 1)$ lies on line c_{56}
350 : $P_{17282} = (1, 27, 15, 1)$ lies on line a_5
351 : $P_{17304} = (23, 27, 15, 1)$ lies on line c_{56}
352 : $P_{17335} = (22, 28, 15, 1)$ lies on line a_5
353 : $P_{17370} = (25, 29, 15, 1)$ lies on line c_{56}
354 : $P_{17390} = (13, 30, 15, 1)$ lies on line a_5
355 : $P_{17407} = (30, 30, 15, 1)$ lies on line c_{56}
356 : $P_{17409} = (0, 31, 15, 1)$ lies on line c_{56}
357 : $P_{17427} = (18, 31, 15, 1)$ lies on line a_5
358 : $P_{17441} = (0, 0, 16, 1)$ lies on line c_{45}
359 : $P_{17452} = (11, 0, 16, 1)$ lies on line a_6
360 : $P_{17476} = (3, 1, 16, 1)$ lies on line c_{24}
361 : $P_{17482} = (9, 1, 16, 1)$ lies on line c_{23}
362 : $P_{17706} = (9, 8, 16, 1)$ lies on line b_1
363 : $P_{17748} = (19, 9, 16, 1)$ lies on line b_3
364 : $P_{17836} = (11, 12, 16, 1)$ lies on line c_{14}
365 : $P_{17857} = (0, 13, 16, 1)$ lies on line c_{35}
366 : $P_{17905} = (16, 14, 16, 1)$ lies on line c_{12}
367 : $P_{17910} = (21, 14, 16, 1)$ lies on line c_{25}
368 : $P_{17927} = (6, 15, 16, 1)$ lies on line c_{13}
369 : $P_{18091} = (10, 20, 16, 1)$ lies on line b_5
370 : $P_{18102} = (21, 20, 16, 1)$ lies on line b_4
371 : $P_{18445} = (12, 31, 16, 1)$ lies on line b_2
372 : $P_{18465} = (0, 0, 17, 1)$ lies on line c_{45}
373 : $P_{18552} = (23, 2, 17, 1)$ lies on line c_{14}
374 : $P_{18647} = (22, 5, 17, 1)$ lies on line c_{12}
375 : $P_{18688} = (31, 6, 17, 1)$ lies on line c_{13}
376 : $P_{18710} = (21, 7, 17, 1)$ lies on line c_{35}
377 : $P_{18757} = (4, 9, 17, 1)$ lies on line c_{24}
378 : $P_{18840} = (23, 11, 17, 1)$ lies on line b_5
379 : $P_{18869} = (20, 12, 17, 1)$ lies on line b_2
380 : $P_{18894} = (13, 13, 17, 1)$ lies on line b_3
381 : $P_{18979} = (2, 16, 17, 1)$ lies on line c_{25}
382 : $P_{19057} = (16, 18, 17, 1)$ lies on line c_{34}
383 : $P_{19104} = (31, 19, 17, 1)$ lies on line c_{23}
384 : $P_{19259} = (26, 24, 17, 1)$ lies on line b_1
385 : $P_{19415} = (22, 29, 17, 1)$ lies on line c_{15}
386 : $P_{19491} = (2, 0, 18, 1)$ lies on line a_1
387 : $P_{19530} = (9, 1, 18, 1)$ lies on line c_{16}
388 : $P_{19611} = (26, 3, 18, 1)$ lies on line a_1
389 : $P_{19612} = (27, 3, 18, 1)$ lies on line c_{16}
390 : $P_{19618} = (1, 4, 18, 1)$ lies on line c_{16}
391 : $P_{19624} = (7, 4, 18, 1)$ lies on line a_1
392 : $P_{19664} = (15, 5, 18, 1)$ lies on line a_1
393 : $P_{19700} = (19, 6, 18, 1)$ lies on line c_{16}
394 : $P_{19704} = (23, 6, 18, 1)$ lies on line a_1
395 : $P_{19739} = (26, 7, 18, 1)$ lies on line c_{16}
396 : $P_{19744} = (31, 7, 18, 1)$ lies on line a_1
397 : $P_{19747} = (2, 8, 18, 1)$ lies on line c_{16}
398 : $P_{19753} = (8, 8, 18, 1)$ lies on line a_1
399 : $P_{19777} = (0, 9, 18, 1)$ lies on line a_1
400 : $P_{19788} = (11, 9, 18, 1)$ lies on line c_{16}
401 : $P_{19825} = (16, 10, 18, 1)$ lies on line c_{16}
402 : $P_{19857} = (16, 11, 18, 1)$ lies on line a_1
403 : $P_{19866} = (25, 11, 18, 1)$ lies on line c_{16}
404 : $P_{19876} = (3, 12, 18, 1)$ lies on line c_{16}
405 : $P_{19886} = (13, 12, 18, 1)$ lies on line a_1
406 : $P_{19910} = (5, 13, 18, 1)$ lies on line a_1
407 : $P_{19954} = (17, 14, 18, 1)$ lies on line c_{16}
408 : $P_{19966} = (29, 14, 18, 1)$ lies on line a_1
409 : $P_{19993} = (24, 15, 18, 1)$ lies on line c_{16}
410 : $P_{20005} = (4, 16, 18, 1)$ lies on line c_{16}
411 : $P_{20063} = (30, 17, 18, 1)$ lies on line a_1
412 : $P_{20071} = (6, 18, 18, 1)$ lies on line a_1
413 : $P_{20087} = (22, 18, 18, 1)$ lies on line c_{16}
414 : $P_{20111} = (14, 19, 18, 1)$ lies on line a_1
415 : $P_{20134} = (5, 20, 18, 1)$ lies on line c_{16}
416 : $P_{20148} = (19, 20, 18, 1)$ lies on line a_1
417 : $P_{20173} = (12, 21, 18, 1)$ lies on line c_{16}
418 : $P_{20188} = (27, 21, 18, 1)$ lies on line a_1
419 : $P_{20196} = (3, 22, 18, 1)$ lies on line a_1
420 : $P_{20216} = (23, 22, 18, 1)$ lies on line c_{16}
421 : $P_{20236} = (11, 23, 18, 1)$ lies on line a_1
422 : $P_{20263} = (6, 24, 18, 1)$ lies on line c_{16}
423 : $P_{20309} = (20, 25, 18, 1)$ lies on line a_1
424 : $P_{20333} = (12, 26, 18, 1)$ lies on line a_1
425 : $P_{20341} = (20, 26, 18, 1)$ lies on line c_{16}
426 : $P_{20382} = (29, 27, 18, 1)$ lies on line c_{16}
427 : $P_{20392} = (7, 28, 18, 1)$ lies on line c_{16}
428 : $P_{20431} = (14, 29, 18, 1)$ lies on line c_{16}
429 : $P_{20458} = (9, 30, 18, 1)$ lies on line a_1
430 : $P_{20470} = (21, 30, 18, 1)$ lies on line c_{16}
431 : $P_{20482} = (1, 31, 18, 1)$ lies on line a_1
432 : $P_{20509} = (28, 31, 18, 1)$ lies on line c_{16}
433 : $P_{20513} = (0, 0, 19, 1)$ lies on line c_{45}
434 : $P_{20685} = (12, 5, 19, 1)$ lies on line b_4
435 : $P_{20693} = (20, 5, 19, 1)$ lies on line b_3
436 : $P_{20769} = (0, 8, 19, 1)$ lies on line c_{34}
437 : $P_{20790} = (21, 8, 19, 1)$ lies on line a_6
438 : $P_{20810} = (9, 9, 19, 1)$ lies on line c_{25}
439 : $P_{20994} = (1, 15, 19, 1)$ lies on line b_2
440 : $P_{21033} = (8, 16, 19, 1)$ lies on line b_5
441 : $P_{21111} = (22, 18, 19, 1)$ lies on line c_{23}
442 : $P_{21161} = (8, 20, 19, 1)$ lies on line c_{13}
443 : $P_{21466} = (25, 29, 19, 1)$ lies on line b_1

444 : $P_{21483} = (10, 30, 19, 1)$ lies on line c_{14}
445 : $P_{21537} = (0, 0, 20, 1)$ lies on line c_{45}
446 : $P_{21567} = (30, 0, 20, 1)$ lies on line c_{35}
447 : $P_{21616} = (15, 2, 20, 1)$ lies on line b_1
448 : $P_{21639} = (6, 3, 20, 1)$ lies on line a_6
449 : $P_{21660} = (27, 3, 20, 1)$ lies on line c_{23}
450 : $P_{21696} = (31, 4, 20, 1)$ lies on line c_{24}
451 : $P_{21769} = (8, 7, 20, 1)$ lies on line c_{12}
452 : $P_{21778} = (17, 7, 20, 1)$ lies on line b_5
453 : $P_{21968} = (15, 13, 20, 1)$ lies on line b_4
454 : $P_{21998} = (13, 14, 20, 1)$ lies on line c_{13}
455 : $P_{22014} = (29, 14, 20, 1)$ lies on line c_{34}
456 : $P_{22101} = (20, 17, 20, 1)$ lies on line c_{14}
457 : $P_{22278} = (5, 23, 20, 1)$ lies on line c_{15}
458 : $P_{22341} = (4, 25, 20, 1)$ lies on line b_3
459 : $P_{22561} = (0, 0, 21, 1)$ lies on line c_{45}
460 : $P_{22652} = (27, 2, 21, 1)$ lies on line b_4
461 : $P_{22678} = (21, 3, 21, 1)$ lies on line c_{34}
462 : $P_{22892} = (11, 10, 21, 1)$ lies on line c_{35}
463 : $P_{22908} = (27, 10, 21, 1)$ lies on line b_2
464 : $P_{22959} = (14, 12, 21, 1)$ lies on line c_{12}
465 : $P_{22969} = (24, 12, 21, 1)$ lies on line c_{24}
466 : $P_{23118} = (13, 17, 21, 1)$ lies on line c_{23}
467 : $P_{23165} = (28, 18, 21, 1)$ lies on line b_1
468 : $P_{23244} = (11, 21, 21, 1)$ lies on line c_{15}
469 : $P_{23515} = (26, 29, 21, 1)$ lies on line b_3
470 : $P_{23561} = (8, 31, 21, 1)$ lies on line c_{14}
471 : $P_{23585} = (0, 0, 22, 1)$ lies on line c_{45}
472 : $P_{23593} = (8, 0, 22, 1)$ lies on line c_{25}
473 : $P_{23667} = (18, 2, 22, 1)$ lies on line c_{23}
474 : $P_{23821} = (12, 7, 22, 1)$ lies on line b_1
475 : $P_{24010} = (9, 13, 22, 1)$ lies on line c_{14}
476 : $P_{24115} = (18, 16, 22, 1)$ lies on line a_6
477 : $P_{24133} = (4, 17, 22, 1)$ lies on line c_{12}
478 : $P_{24158} = (29, 17, 22, 1)$ lies on line b_3
479 : $P_{24195} = (2, 19, 22, 1)$ lies on line b_4
480 : $P_{24218} = (25, 19, 22, 1)$ lies on line c_{15}
481 : $P_{24238} = (13, 20, 22, 1)$ lies on line c_{34}
482 : $P_{24439} = (22, 26, 22, 1)$ lies on line b_2
483 : $P_{24495} = (14, 28, 22, 1)$ lies on line b_5
484 : $P_{24507} = (26, 28, 22, 1)$ lies on line c_{13}
485 : $P_{24609} = (0, 0, 23, 1)$ lies on line c_{45}
486 : $P_{24724} = (19, 3, 23, 1)$ lies on line b_5
487 : $P_{24726} = (21, 3, 23, 1)$ lies on line c_{14}
488 : $P_{24911} = (14, 9, 23, 1)$ lies on line b_2
489 : $P_{24985} = (24, 11, 23, 1)$ lies on line a_6
490 : $P_{25125} = (4, 16, 23, 1)$ lies on line c_{23}
491 : $P_{25176} = (23, 17, 23, 1)$ lies on line c_{15}
492 : $P_{25376} = (31, 23, 23, 1)$ lies on line b_1
493 : $P_{25414} = (5, 25, 23, 1)$ lies on line c_{34}
494 : $P_{25443} = (2, 26, 23, 1)$ lies on line c_{12}
495 : $P_{25573} = (4, 30, 23, 1)$ lies on line c_{35}
496 : $P_{25600} = (31, 30, 23, 1)$ lies on line c_{25}
497 : $P_{25633} = (0, 0, 24, 1)$ lies on line c_{45}
498 : $P_{25733} = (4, 3, 24, 1)$ lies on line b_4
499 : $P_{25801} = (8, 5, 24, 1)$ lies on line c_{23}
500 : $P_{25821} = (28, 5, 24, 1)$ lies on line c_{25}
501 : $P_{25842} = (17, 6, 24, 1)$ lies on line a_6
502 : $P_{26015} = (30, 11, 24, 1)$ lies on line c_{24}
503 : $P_{26041} = (24, 12, 24, 1)$ lies on line b_3
504 : $P_{26065} = (16, 13, 24, 1)$ lies on line c_{13}
505 : $P_{26120} = (7, 15, 24, 1)$ lies on line c_{15}
506 : $P_{26257} = (16, 19, 24, 1)$ lies on line c_{14}
507 : $P_{26259} = (18, 19, 24, 1)$ lies on line b_2
508 : $P_{26419} = (18, 24, 24, 1)$ lies on line c_{34}
509 : $P_{26657} = (0, 0, 25, 1)$ lies on line c_{45}
510 : $P_{26667} = (10, 0, 25, 1)$ lies on line b_2
511 : $P_{26778} = (25, 3, 25, 1)$ lies on line c_{24}
512 : $P_{26794} = (9, 4, 25, 1)$ lies on line c_{13}
513 : $P_{26917} = (4, 8, 25, 1)$ lies on line b_5
514 : $P_{26919} = (6, 8, 25, 1)$ lies on line b_3
515 : $P_{27057} = (16, 12, 25, 1)$ lies on line b_4
516 : $P_{27063} = (22, 12, 25, 1)$ lies on line b_1
517 : $P_{27082} = (9, 13, 25, 1)$ lies on line c_{15}
518 : $P_{27355} = (26, 21, 25, 1)$ lies on line c_{34}
519 : $P_{27396} = (3, 23, 25, 1)$ lies on line c_{12}
520 : $P_{27423} = (30, 23, 25, 1)$ lies on line c_{23}
521 : $P_{27532} = (11, 27, 25, 1)$ lies on line c_{25}
522 : $P_{27612} = (27, 29, 25, 1)$ lies on line a_6
523 : $P_{27681} = (0, 0, 26, 1)$ lies on line c_{45}
524 : $P_{27747} = (2, 2, 26, 1)$ lies on line c_{34}
525 : $P_{27799} = (22, 3, 26, 1)$ lies on line c_{35}
526 : $P_{28010} = (9, 10, 26, 1)$ lies on line c_{12}
527 : $P_{28060} = (27, 11, 26, 1)$ lies on line c_{15}
528 : $P_{28071} = (6, 12, 26, 1)$ lies on line b_5
529 : $P_{28174} = (13, 15, 26, 1)$ lies on line c_{14}
530 : $P_{28200} = (7, 16, 26, 1)$ lies on line b_2
531 : $P_{28358} = (5, 21, 26, 1)$ lies on line a_6
532 : $P_{28487} = (6, 25, 26, 1)$ lies on line b_1
533 : $P_{28561} = (16, 27, 26, 1)$ lies on line c_{24}
534 : $P_{28600} = (23, 28, 26, 1)$ lies on line c_{25}
535 : $P_{28618} = (9, 29, 26, 1)$ lies on line b_4
536 : $P_{28680} = (7, 31, 26, 1)$ lies on line c_{13}
537 : $P_{28705} = (0, 0, 27, 1)$ lies on line c_{45}
538 : $P_{28736} = (31, 0, 27, 1)$ lies on line b_3
539 : $P_{28752} = (15, 1, 27, 1)$ lies on line c_{12}
540 : $P_{28754} = (17, 1, 27, 1)$ lies on line c_{14}
541 : $P_{28769} = (0, 2, 27, 1)$ lies on line c_{25}
542 : $P_{28832} = (31, 3, 27, 1)$ lies on line b_2
543 : $P_{28996} = (3, 9, 27, 1)$ lies on line c_{35}
544 : $P_{29168} = (15, 14, 27, 1)$ lies on line a_6
545 : $P_{29195} = (10, 15, 27, 1)$ lies on line c_{34}
546 : $P_{29310} = (29, 18, 27, 1)$ lies on line b_4
547 : $P_{29336} = (23, 19, 27, 1)$ lies on line c_{24}
548 : $P_{29340} = (27, 19, 27, 1)$ lies on line b_5
549 : $P_{29432} = (23, 22, 27, 1)$ lies on line c_{23}
550 : $P_{29439} = (30, 22, 27, 1)$ lies on line c_{13}
551 : $P_{29729} = (0, 0, 28, 1)$ lies on line c_{45}

552 : $P_{29859} = (2, 4, 28, 1)$ lies on line b_5
553 : $P_{29917} = (28, 5, 28, 1)$ lies on line a_6
554 : $P_{30040} = (23, 9, 28, 1)$ lies on line c_{34}
555 : $P_{30140} = (27, 12, 28, 1)$ lies on line c_{13}
556 : $P_{30179} = (2, 14, 28, 1)$ lies on line c_{24}
557 : $P_{30192} = (15, 14, 28, 1)$ lies on line c_{14}
558 : $P_{30315} = (10, 18, 28, 1)$ lies on line c_{25}
559 : $P_{30436} = (3, 22, 28, 1)$ lies on line b_1
560 : $P_{30568} = (7, 26, 28, 1)$ lies on line c_{35}
561 : $P_{30591} = (30, 26, 28, 1)$ lies on line b_4
562 : $P_{30640} = (15, 28, 28, 1)$ lies on line b_3
563 : $P_{30753} = (0, 0, 29, 1)$ lies on line c_{45}
564 : $P_{30772} = (19, 0, 29, 1)$ lies on line c_{14}
565 : $P_{30912} = (31, 4, 29, 1)$ lies on line c_{34}
566 : $P_{30915} = (2, 5, 29, 1)$ lies on line c_{13}
567 : $P_{30933} = (20, 5, 29, 1)$ lies on line c_{15}
568 : $P_{30961} = (16, 6, 29, 1)$ lies on line b_1
569 : $P_{31166} = (29, 12, 29, 1)$ lies on line c_{25}
570 : $P_{31283} = (18, 16, 29, 1)$ lies on line c_{35}
571 : $P_{31435} = (10, 21, 29, 1)$ lies on line b_4
572 : $P_{31437} = (12, 21, 29, 1)$ lies on line c_{23}
573 : $P_{31538} = (17, 24, 29, 1)$ lies on line b_3
574 : $P_{31648} = (31, 27, 29, 1)$ lies on line b_5
575 : $P_{31735} = (22, 30, 29, 1)$ lies on line a_6
576 : $P_{31740} = (27, 30, 29, 1)$ lies on line c_{12}
577 : $P_{31777} = (0, 0, 30, 1)$ lies on line c_{45}
578 : $P_{31879} = (6, 3, 30, 1)$ lies on line c_{15}
579 : $P_{31890} = (17, 3, 30, 1)$ lies on line c_{12}
580 : $P_{31924} = (19, 4, 30, 1)$ lies on line b_4
581 : $P_{31988} = (19, 6, 30, 1)$ lies on line c_{23}
582 : $P_{32130} = (1, 11, 30, 1)$ lies on line c_{25}
583 : $P_{32233} = (8, 14, 30, 1)$ lies on line c_{35}
584 : $P_{32371} = (18, 18, 30, 1)$ lies on line c_{14}
585 : $P_{32385} = (0, 19, 30, 1)$ lies on line b_1
586 : $P_{32392} = (7, 19, 30, 1)$ lies on line c_{34}
587 : $P_{32439} = (22, 20, 30, 1)$ lies on line b_3
588 : $P_{32798} = (29, 31, 30, 1)$ lies on line b_5
589 : $P_{32828} = (27, 0, 31, 1)$ lies on line c_{46}
590 : $P_{32851} = (18, 1, 31, 1)$ lies on line a_4
591 : $P_{32866} = (1, 2, 31, 1)$ lies on line a_4
592 : $P_{32889} = (24, 2, 31, 1)$ lies on line c_{46}
593 : $P_{32908} = (11, 3, 31, 1)$ lies on line c_{46}
594 : $P_{32931} = (2, 4, 31, 1)$ lies on line a_4
595 : $P_{32975} = (14, 5, 31, 1)$ lies on line c_{46}
596 : $P_{32996} = (3, 6, 31, 1)$ lies on line a_4
597 : $P_{33023} = (30, 6, 31, 1)$ lies on line c_{46}
598 : $P_{33038} = (13, 7, 31, 1)$ lies on line c_{46}
599 : $P_{33042} = (17, 7, 31, 1)$ lies on line a_4
600 : $P_{33061} = (4, 8, 31, 1)$ lies on line a_4
601 : $P_{33093} = (4, 9, 31, 1)$ lies on line c_{46}
602 : $P_{33111} = (22, 9, 31, 1)$ lies on line a_4
603 : $P_{33126} = (5, 10, 31, 1)$ lies on line a_4
604 : $P_{33141} = (20, 10, 31, 1)$ lies on line c_{46}
605 : $P_{33176} = (23, 11, 31, 1)$ lies on line a_4
606 : $P_{33191} = (6, 12, 31, 1)$ lies on line a_4
607 : $P_{33202} = (17, 12, 31, 1)$ lies on line c_{46}
608 : $P_{33237} = (20, 13, 31, 1)$ lies on line a_4
609 : $P_{33256} = (7, 14, 31, 1)$ lies on line a_4
610 : $P_{33267} = (18, 14, 31, 1)$ lies on line c_{46}
611 : $P_{33282} = (1, 15, 31, 1)$ lies on line c_{46}
612 : $P_{33302} = (21, 15, 31, 1)$ lies on line a_4
613 : $P_{33316} = (3, 16, 31, 1)$ lies on line c_{46}
614 : $P_{33361} = (16, 17, 31, 1)$ lies on line c_{46}
615 : $P_{33371} = (26, 17, 31, 1)$ lies on line a_4
616 : $P_{33377} = (0, 18, 31, 1)$ lies on line c_{46}
617 : $P_{33386} = (9, 18, 31, 1)$ lies on line a_4
618 : $P_{33428} = (19, 19, 31, 1)$ lies on line c_{46}
619 : $P_{33436} = (27, 19, 31, 1)$ lies on line a_4
620 : $P_{33451} = (10, 20, 31, 1)$ lies on line a_4
621 : $P_{33497} = (24, 21, 31, 1)$ lies on line a_4
622 : $P_{33511} = (6, 22, 31, 1)$ lies on line c_{46}
623 : $P_{33562} = (25, 23, 31, 1)$ lies on line a_4
624 : $P_{33581} = (12, 24, 31, 1)$ lies on line a_4
625 : $P_{33584} = (15, 24, 31, 1)$ lies on line c_{46}
626 : $P_{33629} = (28, 25, 31, 1)$ lies on line c_{46}
627 : $P_{33631} = (30, 25, 31, 1)$ lies on line a_4
628 : $P_{33645} = (12, 26, 31, 1)$ lies on line c_{46}
629 : $P_{33646} = (13, 26, 31, 1)$ lies on line a_4
630 : $P_{33706} = (9, 28, 31, 1)$ lies on line c_{46}
631 : $P_{33755} = (26, 29, 31, 1)$ lies on line c_{46}
632 : $P_{33757} = (28, 29, 31, 1)$ lies on line a_4
633 : $P_{33771} = (10, 30, 31, 1)$ lies on line c_{46}
634 : $P_{33818} = (25, 31, 31, 1)$ lies on line c_{46}
635 : $P_{33822} = (29, 31, 31, 1)$ lies on line a_4

The single points on the surface are:

Points on surface but on no line

The surface has 488 points not on any line:
The points on the surface but not on lines are:

$0:\ P_{111} = (12, 2, 1, 0)$
$1:\ P_{189} = (26, 4, 1, 0)$
$2:\ P_{306} = (15, 8, 1, 0)$
$3:\ P_{339} = (16, 9, 1, 0)$
$4:\ P_{386} = (31, 10, 1, 0)$
$5:\ P_{400} = (13, 11, 1, 0)$
$6:\ P_{456} = (5, 13, 1, 0)$
$7:\ P_{501} = (18, 14, 1, 0)$
$8:\ P_{542} = (27, 15, 1, 0)$
$9:\ P_{550} = (3, 16, 1, 0)$
$10:\ P_{615} = (4, 18, 1, 0)$
$11:\ P_{654} = (11, 19, 1, 0)$
$12:\ P_{916} = (17, 27, 1, 0)$
$13:\ P_{1004} = (9, 30, 1, 0)$
$14:\ P_{1029} = (2, 31, 1, 0)$
$15:\ P_{1091} = (1, 1, 0, 1)$
$16:\ P_{1126} = (4, 2, 0, 1)$
$17:\ P_{1202} = (16, 4, 0, 1)$
$18:\ P_{1270} = (20, 6, 0, 1)$
$19:\ P_{1324} = (10, 8, 0, 1)$
$20:\ P_{1392} = (14, 10, 0, 1)$
$21:\ P_{1501} = (27, 13, 0, 1)$
$22:\ P_{1536} = (30, 14, 0, 1)$
$23:\ P_{1583} = (13, 16, 0, 1)$
$24:\ P_{1674} = (8, 19, 0, 1)$
$25:\ P_{1727} = (29, 20, 0, 1)$
$26:\ P_{1787} = (25, 22, 0, 1)$
$27:\ P_{1864} = (6, 25, 0, 1)$
$28:\ P_{1924} = (2, 27, 0, 1)$
$29:\ P_{2008} = (22, 29, 0, 1)$
$30:\ P_{2037} = (19, 30, 0, 1)$
$31:\ P_{2083} = (1, 0, 1, 1)$
$32:\ P_{2114} = (0, 1, 1, 1)$
$33:\ P_{2166} = (21, 2, 1, 1)$
$34:\ P_{2237} = (28, 4, 1, 1)$
$35:\ P_{2296} = (23, 6, 1, 1)$
$36:\ P_{2334} = (29, 7, 1, 1)$
$37:\ P_{2521} = (24, 13, 1, 1)$
$38:\ P_{2616} = (23, 16, 1, 1)$
$39:\ P_{2745} = (24, 20, 1, 1)$
$40:\ P_{2775} = (22, 21, 1, 1)$
$41:\ P_{2806} = (21, 22, 1, 1)$
$42:\ P_{2823} = (6, 23, 1, 1)$
$43:\ P_{2869} = (20, 24, 1, 1)$
$44:\ P_{2909} = (28, 25, 1, 1)$
$45:\ P_{2952} = (7, 27, 1, 1)$
$46:\ P_{3002} = (25, 28, 1, 1)$
$47:\ P_{3016} = (7, 29, 1, 1)$
$48:\ P_{3209} = (8, 3, 2, 1)$
$49:\ P_{3226} = (25, 3, 2, 1)$
$50:\ P_{3255} = (22, 4, 2, 1)$
$51:\ P_{3270} = (5, 5, 2, 1)$
$52:\ P_{3343} = (14, 7, 2, 1)$
$53:\ P_{3356} = (27, 7, 2, 1)$
$54:\ P_{3406} = (13, 9, 2, 1)$
$55:\ P_{3642} = (25, 16, 2, 1)$
$56:\ P_{3644} = (27, 16, 2, 1)$
$57:\ P_{3709} = (28, 18, 2, 1)$
$58:\ P_{3849} = (8, 23, 2, 1)$
$59:\ P_{3854} = (13, 23, 2, 1)$
$60:\ P_{4036} = (3, 29, 2, 1)$
$61:\ P_{4045} = (12, 29, 2, 1)$
$62:\ P_{4084} = (19, 30, 2, 1)$
$63:\ P_{4100} = (3, 31, 2, 1)$
$64:\ P_{4157} = (28, 0, 3, 1)$
$65:\ P_{4212} = (19, 2, 3, 1)$
$66:\ P_{4285} = (28, 4, 3, 1)$
$67:\ P_{4289} = (0, 5, 3, 1)$
$68:\ P_{4335} = (14, 6, 3, 1)$
$69:\ P_{4515} = (2, 12, 3, 1)$
$70:\ P_{4531} = (18, 12, 3, 1)$
$71:\ P_{4549} = (4, 13, 3, 1)$
$72:\ P_{4602} = (25, 14, 3, 1)$
$73:\ P_{4626} = (17, 15, 3, 1)$
$74:\ P_{4654} = (13, 16, 3, 1)$
$75:\ P_{4676} = (3, 17, 3, 1)$
$76:\ P_{4687} = (14, 17, 3, 1)$
$77:\ P_{4732} = (27, 18, 3, 1)$
$78:\ P_{4834} = (1, 22, 3, 1)$
$79:\ P_{4884} = (19, 23, 3, 1)$
$80:\ P_{4979} = (18, 26, 3, 1)$
$81:\ P_{5145} = (24, 31, 3, 1)$
$82:\ P_{5319} = (6, 5, 4, 1)$
$83:\ P_{5323} = (10, 5, 4, 1)$
$84:\ P_{5464} = (23, 9, 4, 1)$
$85:\ P_{5532} = (27, 11, 4, 1)$
$86:\ P_{5571} = (2, 13, 4, 1)$
$87:\ P_{5575} = (6, 13, 4, 1)$
$88:\ P_{5690} = (25, 16, 4, 1)$
$89:\ P_{5714} = (17, 17, 4, 1)$
$90:\ P_{5734} = (5, 18, 4, 1)$
$91:\ P_{5769} = (8, 19, 4, 1)$
$92:\ P_{5827} = (2, 21, 4, 1)$
$93:\ P_{5855} = (30, 21, 4, 1)$
$94:\ P_{5862} = (5, 22, 4, 1)$
$95:\ P_{5883} = (26, 22, 4, 1)$
$96:\ P_{5931} = (10, 24, 4, 1)$
$97:\ P_{5948} = (27, 24, 4, 1)$
$98:\ P_{6200} = (23, 0, 5, 1)$
$99:\ P_{6282} = (9, 3, 5, 1)$
$100:\ P_{6313} = (8, 4, 5, 1)$
$101:\ P_{6467} = (2, 9, 5, 1)$
$102:\ P_{6566} = (5, 12, 5, 1)$
$103:\ P_{6591} = (30, 12, 5, 1)$
$104:\ P_{6620} = (27, 13, 5, 1)$
$105:\ P_{6712} = (23, 16, 5, 1)$
$106:\ P_{6721} = (0, 17, 5, 1)$
$107:\ P_{6760} = (7, 18, 5, 1)$

$108: P_{6847} = (30, 20, 5, 1)$
$109: P_{6953} = (8, 24, 5, 1)$
$110: P_{6978} = (1, 25, 5, 1)$
$111: P_{7013} = (4, 26, 5, 1)$
$112: P_{7018} = (9, 26, 5, 1)$
$113: P_{7057} = (16, 27, 5, 1)$
$114: P_{7143} = (6, 30, 5, 1)$
$115: P_{7181} = (12, 31, 5, 1)$
$116: P_{7250} = (17, 1, 6, 1)$
$117: P_{7263} = (30, 1, 6, 1)$
$118: P_{7268} = (3, 2, 6, 1)$
$119: P_{7374} = (13, 5, 6, 1)$
$120: P_{7508} = (19, 9, 6, 1)$
$121: P_{7509} = (20, 9, 6, 1)$
$122: P_{7651} = (2, 14, 6, 1)$
$123: P_{7734} = (21, 16, 6, 1)$
$124: P_{7760} = (15, 17, 6, 1)$
$125: P_{7761} = (16, 17, 6, 1)$
$126: P_{7782} = (5, 18, 6, 1)$
$127: P_{7802} = (25, 18, 6, 1)$
$128: P_{7841} = (0, 20, 6, 1)$
$129: P_{7867} = (26, 20, 6, 1)$
$130: P_{7887} = (14, 21, 6, 1)$
$131: P_{7894} = (21, 21, 6, 1)$
$132: P_{8095} = (30, 27, 6, 1)$
$133: P_{8114} = (17, 28, 6, 1)$
$134: P_{8237} = (12, 0, 7, 1)$
$135: P_{8309} = (20, 2, 7, 1)$
$136: P_{8315} = (26, 2, 7, 1)$
$137: P_{8410} = (25, 5, 7, 1)$
$138: P_{8451} = (2, 7, 7, 1)$
$139: P_{8628} = (19, 12, 7, 1)$
$140: P_{8694} = (21, 14, 7, 1)$
$141: P_{8696} = (23, 14, 7, 1)$
$142: P_{8721} = (16, 15, 7, 1)$
$143: P_{8885} = (20, 20, 7, 1)$
$144: P_{8897} = (0, 21, 7, 1)$
$145: P_{8922} = (25, 21, 7, 1)$
$146: P_{8971} = (10, 23, 7, 1)$
$147: P_{9011} = (18, 24, 7, 1)$
$148: P_{9074} = (17, 26, 7, 1)$
$149: P_{9115} = (26, 27, 7, 1)$
$150: P_{9123} = (2, 28, 7, 1)$
$151: P_{9139} = (18, 28, 7, 1)$
$152: P_{9223} = (6, 31, 7, 1)$
$153: P_{9271} = (22, 0, 8, 1)$
$154: P_{9471} = (30, 6, 8, 1)$
$155: P_{9488} = (15, 7, 8, 1)$
$156: P_{9503} = (30, 7, 8, 1)$
$157: P_{9534} = (29, 8, 8, 1)$
$158: P_{9543} = (6, 9, 8, 1)$
$159: P_{9623} = (22, 11, 8, 1)$
$160: P_{9682} = (17, 13, 8, 1)$
$161: P_{9868} = (11, 19, 8, 1)$
$162: P_{9946} = (25, 21, 8, 1)$
$163: P_{9947} = (26, 21, 8, 1)$
$164: P_{10084} = (3, 26, 8, 1)$
$165: P_{10096} = (15, 26, 8, 1)$
$166: P_{10130} = (17, 27, 8, 1)$
$167: P_{10141} = (28, 27, 8, 1)$
$168: P_{10178} = (1, 29, 8, 1)$
$169: P_{10249} = (8, 31, 8, 1)$
$170: P_{11322} = (25, 0, 10, 1)$
$171: P_{11373} = (12, 2, 10, 1)$
$172: P_{11384} = (23, 2, 10, 1)$
$173: P_{11398} = (5, 3, 10, 1)$
$174: P_{11424} = (31, 3, 10, 1)$
$175: P_{11568} = (15, 8, 10, 1)$
$176: P_{11639} = (22, 10, 10, 1)$
$177: P_{11669} = (20, 11, 10, 1)$
$178: P_{11802} = (25, 15, 10, 1)$
$179: P_{11883} = (10, 18, 10, 1)$
$180: P_{11956} = (19, 20, 10, 1)$
$181: P_{11988} = (19, 21, 10, 1)$
$182: P_{12000} = (31, 21, 10, 1)$
$183: P_{12002} = (1, 22, 10, 1)$
$184: P_{12173} = (12, 27, 10, 1)$
$185: P_{12196} = (3, 28, 10, 1)$
$186: P_{12199} = (6, 28, 10, 1)$
$187: P_{13352} = (7, 0, 12, 1)$
$188: P_{13413} = (4, 2, 12, 1)$
$189: P_{13449} = (8, 3, 12, 1)$
$190: P_{13453} = (12, 3, 12, 1)$
$191: P_{13500} = (27, 4, 12, 1)$
$192: P_{13518} = (13, 5, 12, 1)$
$193: P_{13520} = (15, 5, 12, 1)$
$194: P_{13630} = (29, 8, 12, 1)$
$195: P_{13636} = (3, 9, 12, 1)$
$196: P_{13725} = (28, 11, 12, 1)$
$197: P_{13775} = (14, 13, 12, 1)$
$198: P_{13841} = (16, 15, 12, 1)$
$199: P_{13904} = (15, 17, 12, 1)$
$200: P_{13986} = (1, 20, 12, 1)$
$201: P_{14031} = (14, 21, 12, 1)$
$202: P_{14057} = (8, 22, 12, 1)$
$203: P_{14177} = (0, 26, 12, 1)$
$204: P_{14216} = (7, 27, 12, 1)$
$205: P_{14449} = (16, 2, 13, 1)$
$206: P_{14462} = (29, 2, 13, 1)$
$207: P_{14566} = (5, 6, 13, 1)$
$208: P_{14573} = (12, 6, 13, 1)$
$209: P_{14703} = (14, 10, 13, 1)$
$210: P_{14733} = (12, 11, 13, 1)$
$211: P_{14782} = (29, 12, 13, 1)$
$212: P_{14783} = (30, 12, 13, 1)$
$213: P_{14856} = (7, 15, 13, 1)$
$214: P_{15045} = (4, 21, 13, 1)$
$215: P_{15071} = (30, 21, 13, 1)$

$216: P_{15113} = (8, 23, 13, 1)$
$217: P_{15121} = (16, 23, 13, 1)$
$218: P_{15227} = (26, 26, 13, 1)$
$219: P_{15253} = (20, 27, 13, 1)$
$220: P_{15365} = (4, 31, 13, 1)$
$221: P_{15399} = (6, 0, 14, 1)$
$222: P_{15483} = (26, 2, 14, 1)$
$223: P_{15545} = (24, 4, 14, 1)$
$224: P_{15547} = (26, 4, 14, 1)$
$225: P_{15570} = (17, 5, 14, 1)$
$226: P_{15571} = (18, 5, 14, 1)$
$227: P_{15695} = (14, 9, 14, 1)$
$228: P_{15744} = (31, 10, 14, 1)$
$229: P_{15866} = (25, 14, 14, 1)$
$230: P_{15902} = (29, 15, 14, 1)$
$231: P_{16134} = (5, 23, 14, 1)$
$232: P_{16149} = (20, 23, 14, 1)$
$233: P_{16194} = (1, 25, 14, 1)$
$234: P_{16297} = (8, 28, 14, 1)$
$235: P_{16307} = (18, 28, 14, 1)$
$236: P_{16329} = (8, 29, 14, 1)$
$237: P_{16391} = (6, 31, 14, 1)$
$238: P_{17667} = (2, 7, 16, 1)$
$239: P_{17679} = (14, 7, 16, 1)$
$240: P_{17707} = (10, 8, 16, 1)$
$241: P_{17746} = (17, 9, 16, 1)$
$242: P_{17817} = (24, 11, 16, 1)$
$243: P_{17837} = (12, 12, 16, 1)$
$244: P_{17863} = (6, 13, 16, 1)$
$245: P_{17923} = (2, 15, 16, 1)$
$246: P_{17999} = (14, 17, 16, 1)$
$247: P_{18005} = (20, 17, 16, 1)$
$248: P_{18244} = (3, 25, 16, 1)$
$249: P_{18258} = (17, 25, 16, 1)$
$250: P_{18309} = (4, 27, 16, 1)$
$251: P_{18325} = (20, 27, 16, 1)$
$252: P_{18341} = (4, 28, 16, 1)$
$253: P_{18356} = (19, 28, 16, 1)$
$254: P_{18489} = (24, 0, 17, 1)$
$255: P_{18542} = (13, 2, 17, 1)$
$256: P_{18572} = (11, 3, 17, 1)$
$257: P_{18577} = (16, 3, 17, 1)$
$258: P_{18636} = (11, 5, 17, 1)$
$259: P_{18658} = (1, 6, 17, 1)$
$260: P_{18699} = (10, 7, 17, 1)$
$261: P_{18774} = (21, 9, 17, 1)$
$262: P_{18821} = (4, 11, 17, 1)$
$263: P_{18849} = (0, 12, 17, 1)$
$264: P_{18905} = (24, 13, 17, 1)$
$265: P_{18987} = (10, 16, 17, 1)$
$266: P_{19067} = (26, 18, 17, 1)$
$267: P_{19093} = (20, 19, 17, 1)$
$268: P_{19314} = (17, 26, 17, 1)$
$269: P_{19316} = (19, 26, 17, 1)$
$270: P_{19331} = (2, 27, 17, 1)$
$271: P_{19412} = (19, 29, 17, 1)$
$272: P_{20542} = (29, 0, 19, 1)$
$273: P_{20749} = (12, 7, 19, 1)$
$274: P_{20759} = (22, 7, 19, 1)$
$275: P_{20830} = (29, 9, 19, 1)$
$276: P_{20908} = (11, 12, 19, 1)$
$277: P_{20923} = (26, 12, 19, 1)$
$278: P_{20934} = (5, 13, 19, 1)$
$279: P_{20950} = (21, 13, 19, 1)$
$280: P_{21012} = (19, 15, 19, 1)$
$281: P_{21030} = (5, 16, 19, 1)$
$282: P_{21114} = (25, 18, 19, 1)$
$283: P_{21141} = (20, 19, 19, 1)$
$284: P_{21154} = (1, 20, 19, 1)$
$285: P_{21292} = (11, 24, 19, 1)$
$286: P_{21295} = (14, 24, 19, 1)$
$287: P_{21327} = (14, 25, 19, 1)$
$288: P_{21482} = (9, 30, 19, 1)$
$289: P_{21581} = (12, 1, 20, 1)$
$290: P_{21588} = (19, 1, 20, 1)$
$291: P_{21620} = (19, 2, 20, 1)$
$292: P_{21670} = (5, 4, 20, 1)$
$293: P_{21831} = (6, 9, 20, 1)$
$294: P_{21842} = (17, 9, 20, 1)$
$295: P_{21897} = (8, 11, 20, 1)$
$296: P_{21918} = (29, 11, 20, 1)$
$297: P_{21934} = (13, 12, 20, 1)$
$298: P_{21952} = (31, 12, 20, 1)$
$299: P_{21981} = (28, 13, 20, 1)$
$300: P_{22108} = (27, 17, 20, 1)$
$301: P_{22285} = (12, 23, 20, 1)$
$302: P_{22461} = (28, 28, 20, 1)$
$303: P_{22463} = (30, 28, 20, 1)$
$304: P_{22465} = (0, 29, 20, 1)$
$305: P_{22468} = (3, 29, 20, 1)$
$306: P_{22501} = (4, 30, 20, 1)$
$307: P_{22587} = (26, 0, 21, 1)$
$308: P_{22628} = (3, 2, 21, 1)$
$309: P_{22669} = (12, 3, 21, 1)$
$310: P_{22692} = (3, 4, 21, 1)$
$311: P_{22718} = (29, 4, 21, 1)$
$312: P_{22794} = (9, 7, 21, 1)$
$313: P_{23111} = (6, 17, 21, 1)$
$314: P_{23157} = (20, 18, 21, 1)$
$315: P_{23237} = (4, 21, 21, 1)$
$316: P_{23301} = (4, 23, 21, 1)$
$317: P_{23306} = (9, 23, 21, 1)$
$318: P_{23343} = (14, 24, 21, 1)$
$319: P_{23401} = (8, 26, 21, 1)$
$320: P_{23457} = (0, 28, 21, 1)$
$321: P_{23463} = (6, 28, 21, 1)$
$322: P_{23518} = (29, 29, 21, 1)$
$323: P_{23545} = (24, 30, 21, 1)$

$324: P_{23549} = (28, 30, 21, 1)$
$325: P_{23566} = (13, 31, 21, 1)$
$326: P_{23620} = (3, 1, 22, 1)$
$327: P_{23627} = (10, 1, 22, 1)$
$328: P_{23673} = (24, 2, 22, 1)$
$329: P_{23683} = (2, 3, 22, 1)$
$330: P_{23690} = (9, 3, 22, 1)$
$331: P_{23812} = (3, 7, 22, 1)$
$332: P_{23854} = (13, 8, 22, 1)$
$333: P_{24013} = (12, 13, 22, 1)$
$334: P_{24091} = (26, 15, 22, 1)$
$335: P_{24094} = (29, 15, 22, 1)$
$336: P_{24107} = (10, 16, 22, 1)$
$337: P_{24361} = (8, 24, 22, 1)$
$338: P_{24377} = (24, 24, 22, 1)$
$339: P_{24385} = (0, 25, 22, 1)$
$340: P_{24402} = (17, 25, 22, 1)$
$341: P_{24421} = (4, 26, 22, 1)$
$342: P_{24591} = (14, 31, 22, 1)$
$343: P_{24602} = (25, 31, 22, 1)$
$344: P_{24614} = (5, 0, 23, 1)$
$345: P_{24783} = (14, 5, 23, 1)$
$346: P_{24846} = (13, 7, 23, 1)$
$347: P_{24848} = (15, 7, 23, 1)$
$348: P_{24886} = (21, 8, 23, 1)$
$349: P_{24889} = (24, 8, 23, 1)$
$350: P_{24899} = (2, 9, 23, 1)$
$351: P_{24983} = (22, 11, 23, 1)$
$352: P_{25042} = (17, 13, 23, 1)$
$353: P_{25050} = (25, 13, 23, 1)$
$354: P_{25138} = (17, 16, 23, 1)$
$355: P_{25156} = (3, 17, 23, 1)$
$356: P_{25300} = (19, 21, 23, 1)$
$357: P_{25358} = (13, 23, 23, 1)$
$358: P_{25377} = (0, 24, 23, 1)$
$359: P_{25406} = (29, 24, 23, 1)$
$360: P_{25434} = (25, 25, 23, 1)$
$361: P_{25470} = (29, 26, 23, 1)$
$362: P_{25520} = (15, 28, 23, 1)$
$363: P_{25650} = (17, 0, 24, 1)$
$364: P_{25751} = (22, 3, 24, 1)$
$365: P_{25831} = (6, 6, 24, 1)$
$366: P_{25857} = (0, 7, 24, 1)$
$367: P_{25879} = (22, 7, 24, 1)$
$368: P_{25960} = (7, 10, 24, 1)$
$369: P_{25981} = (28, 10, 24, 1)$
$370: P_{25989} = (4, 11, 24, 1)$
$371: P_{26022} = (5, 12, 24, 1)$
$372: P_{26061} = (12, 13, 24, 1)$
$373: P_{26138} = (25, 15, 24, 1)$
$374: P_{26207} = (30, 17, 24, 1)$
$375: P_{26332} = (27, 21, 24, 1)$
$376: P_{26336} = (31, 21, 24, 1)$
$377: P_{26400} = (31, 23, 24, 1)$
$378: P_{26428} = (27, 24, 24, 1)$
$379: P_{26503} = (6, 27, 24, 1)$
$380: P_{26509} = (12, 27, 24, 1)$
$381: P_{26537} = (8, 28, 24, 1)$
$382: P_{26694} = (5, 1, 25, 1)$
$383: P_{26703} = (14, 1, 25, 1)$
$384: P_{26769} = (16, 3, 25, 1)$
$385: P_{26792} = (7, 4, 25, 1)$
$386: P_{26821} = (4, 5, 25, 1)$
$387: P_{26828} = (11, 5, 25, 1)$
$388: P_{26849} = (0, 6, 25, 1)$
$389: P_{26861} = (12, 6, 25, 1)$
$390: P_{26888} = (7, 7, 25, 1)$
$391: P_{26891} = (10, 7, 25, 1)$
$392: P_{27004} = (27, 10, 25, 1)$
$393: P_{27087} = (14, 13, 25, 1)$
$394: P_{27239} = (6, 18, 25, 1)$
$395: P_{27263} = (30, 18, 25, 1)$
$396: P_{27334} = (5, 21, 25, 1)$
$397: P_{27547} = (26, 27, 25, 1)$
$398: P_{27652} = (3, 31, 25, 1)$
$399: P_{27671} = (22, 31, 25, 1)$
$400: P_{27702} = (21, 0, 26, 1)$
$401: P_{27766} = (21, 2, 26, 1)$
$402: P_{27777} = (0, 3, 26, 1)$
$403: P_{27825} = (16, 4, 26, 1)$
$404: P_{27851} = (10, 5, 26, 1)$
$405: P_{27867} = (26, 5, 26, 1)$
$406: P_{28023} = (22, 10, 26, 1)$
$407: P_{28038} = (5, 11, 26, 1)$
$408: P_{28096} = (31, 12, 26, 1)$
$409: P_{28184} = (23, 15, 26, 1)$
$410: P_{28195} = (2, 16, 26, 1)$
$411: P_{28252} = (27, 17, 26, 1)$
$412: P_{28256} = (31, 17, 26, 1)$
$413: P_{28491} = (10, 25, 26, 1)$
$414: P_{28575} = (30, 27, 26, 1)$
$415: P_{28607} = (30, 28, 26, 1)$
$416: P_{28610} = (1, 29, 26, 1)$
$417: P_{28686} = (13, 31, 26, 1)$
$418: P_{28798} = (29, 2, 27, 1)$
$419: P_{28804} = (3, 3, 27, 1)$
$420: P_{28846} = (13, 4, 27, 1)$
$421: P_{28855} = (22, 4, 27, 1)$
$422: P_{29183} = (30, 14, 27, 1)$
$423: P_{29211} = (26, 15, 27, 1)$
$424: P_{29297} = (16, 18, 27, 1)$
$425: P_{29362} = (17, 20, 27, 1)$
$426: P_{29371} = (26, 20, 27, 1)$
$427: P_{29483} = (10, 24, 27, 1)$
$428: P_{29486} = (13, 24, 27, 1)$
$429: P_{29556} = (19, 26, 27, 1)$
$430: P_{29559} = (22, 26, 27, 1)$
$431: P_{29617} = (16, 28, 27, 1)$

$432: P_{29620} = (19, 28, 27, 1)$
$433: P_{29718} = (21, 31, 27, 1)$
$434: P_{29732} = (3, 0, 28, 1)$
$435: P_{29835} = (10, 3, 28, 1)$
$436: P_{29862} = (5, 4, 28, 1)$
$437: P_{29915} = (26, 5, 28, 1)$
$438: P_{29983} = (30, 7, 28, 1)$
$439: P_{30046} = (29, 9, 28, 1)$
$440: P_{30133} = (20, 12, 28, 1)$
$441: P_{30246} = (5, 16, 28, 1)$
$442: P_{30263} = (22, 16, 28, 1)$
$443: P_{30332} = (27, 18, 28, 1)$
$444: P_{30344} = (7, 19, 28, 1)$
$445: P_{30360} = (23, 19, 28, 1)$
$446: P_{30412} = (11, 21, 28, 1)$
$447: P_{30455} = (22, 22, 28, 1)$
$448: P_{30465} = (0, 23, 28, 1)$
$449: P_{30485} = (20, 23, 28, 1)$
$450: P_{30508} = (11, 24, 28, 1)$
$451: P_{30513} = (16, 24, 28, 1)$
$452: P_{30641} = (16, 28, 28, 1)$
$453: P_{30793} = (8, 1, 29, 1)$
$454: P_{30811} = (26, 1, 29, 1)$
$455: P_{30889} = (8, 4, 29, 1)$
$456: P_{31117} = (12, 11, 29, 1)$
$457: P_{31125} = (20, 11, 29, 1)$
$458: P_{31139} = (2, 12, 29, 1)$
$459: P_{31243} = (10, 15, 29, 1)$
$460: P_{31255} = (22, 15, 29, 1)$
$461: P_{31282} = (17, 16, 29, 1)$
$462: P_{31377} = (16, 19, 29, 1)$
$463: P_{31457} = (0, 22, 29, 1)$
$464: P_{31462} = (5, 22, 29, 1)$
$465: P_{31508} = (19, 23, 29, 1)$
$466: P_{31512} = (23, 23, 29, 1)$
$467: P_{31547} = (26, 24, 29, 1)$
$468: P_{31603} = (18, 26, 29, 1)$
$469: P_{31612} = (27, 26, 29, 1)$
$470: P_{31640} = (23, 27, 29, 1)$
$471: P_{31797} = (20, 0, 30, 1)$
$472: P_{31908} = (3, 4, 30, 1)$
$473: P_{31970} = (1, 6, 30, 1)$
$474: P_{32159} = (30, 11, 30, 1)$
$475: P_{32243} = (18, 14, 30, 1)$
$476: P_{32292} = (3, 16, 30, 1)$
$477: P_{32296} = (7, 16, 30, 1)$
$478: P_{32330} = (9, 17, 30, 1)$
$479: P_{32333} = (12, 17, 30, 1)$
$480: P_{32373} = (20, 18, 30, 1)$
$481: P_{32491} = (10, 22, 30, 1)$
$482: P_{32522} = (9, 23, 30, 1)$
$483: P_{32523} = (10, 23, 30, 1)$
$484: P_{32562} = (17, 24, 30, 1)$
$485: P_{32574} = (29, 24, 30, 1)$
$486: P_{32743} = (6, 30, 30, 1)$
$487: P_{32791} = (22, 31, 30, 1)$

Line Intersection Graph

		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
		a_1	a_2	a_3	a_4	a_5	a_6	b_1	b_2	b_3	b_4	b_5	b_6	c_{12}	c_{13}	c_{14}	c_{15}	c_{16}	c_{23}	c_{24}	c_{25}	c_{26}	c_{34}	c_{35}	c_{36}	c_{45}	c_{46}	c_{56}
0	a_1	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
1	a_2	0	0	0	0	0	0	1	0	1	1	1	1	1	0	0	0	0	1	1	1	1	0	0	0	0	0	0
2	a_3	0	0	0	0	0	0	1	1	0	1	1	1	0	1	0	0	0	1	0	0	0	1	1	1	0	0	0
3	a_4	0	0	0	0	0	0	1	1	1	0	1	1	0	0	1	0	0	0	1	0	0	1	0	0	1	1	0
4	a_5	0	0	0	0	0	0	1	1	1	1	0	1	0	0	0	1	0	0	0	1	0	0	1	0	1	0	1
5	a_6	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	1	0	0	0	1	0	0	1	0	1	1
6	b_1	0	1	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
7	b_2	1	0	1	1	1	1	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1	0	0	0	0	0	0
8	b_3	1	1	0	1	1	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	1	1	0	0	0
9	b_4	1	1	1	0	1	1	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	0	0	1	1	0
10	b_5	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	0	1	0	1
11	b_6	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	0	1	1
12	c_{12}	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1
13	c_{13}	1	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	1	1	1
14	c_{14}	1	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	1	0	1	1	0	1	1	0	0	1
15	c_{15}	1	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	0	1	1	0	1	1	0	1	0	1	0
16	c_{16}	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	1	1	0	1	1	0	1	0	0
17	c_{23}	0	1	1	0	0	0	0	1	1	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	1	1	1
18	c_{24}	0	1	0	1	0	0	0	1	0	1	0	0	0	1	0	1	1	0	0	0	0	0	1	1	0	0	1
19	c_{25}	0	1	0	0	1	0	0	1	0	0	1	0	0	1	1	0	1	0	0	0	0	1	0	1	0	1	0
20	c_{26}	0	1	0	0	0	1	0	1	0	0	0	1	0	1	1	1	0	0	0	0	0	1	1	0	1	0	0
21	c_{34}	0	0	1	1	0	0	0	0	1	1	0	0	1	0	0	1	1	0	0	1	1	0	0	0	0	0	1
22	c_{35}	0	0	1	0	1	0	0	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	0	0	0	1	0
23	c_{36}	0	0	1	0	0	1	0	0	1	0	0	1	1	0	1	1	0	0	1	1	0	0	0	0	1	0	0
24	c_{45}	0	0	0	1	1	0	0	0	0	1	1	0	1	1	0	0	1	1	0	0	1	0	0	1	0	0	0
25	c_{46}	0	0	0	1	0	1	0	0	0	1	0	1	1	1	0	1	0	1	0	1	0	0	1	0	0	0	0
26	c_{56}	0	0	0	0	1	1	0	0	0	0	1	1	1	1	1	0	0	1	1	0	0	1	0	0	0	0	0

Neighbor sets in the line intersection graph:
Line 0 intersects

Line	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}
in point	P_{20410}	P_{19531}	P_{19833}	P_{19990}	P_{12}	P_{20285}	P_{20434}	P_{20023}	P_{20357}	P_{19571}

Line 1 intersects

Line	ℓ_6	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}
in point	P_{10319}	P_{10353}	P_{10520}	P_{10728}	P_{14}	P_{10989}	P_{11293}	P_{11015}	P_{10714}	P_{10410}

Line 2 intersects

Line	ℓ_6	ℓ_7	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{13}	ℓ_{17}	ℓ_{21}	ℓ_{22}	ℓ_{23}
in point	P_{12462}	P_{13191}	P_{13147}	P_{13017}	P_{18}	P_{12920}	P_{13302}	P_{12383}	P_{13109}	P_{12844}

Line 3 intersects

Line	ℓ_6	ℓ_7	ℓ_8	ℓ_{10}	ℓ_{11}	ℓ_{14}	ℓ_{18}	ℓ_{21}	ℓ_{24}	ℓ_{25}
in point	P_{32916}	P_{32977}	P_{33321}	P_{32801}	P_{22}	P_{33711}	P_{33516}	P_{33776}	P_{32801}	P_{33696}

Line 4 intersects

Line	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{11}	ℓ_{15}	ℓ_{19}	ℓ_{22}	ℓ_{24}	ℓ_{26}
in point	P_{16876}	P_{17354}	P_{17279}	P_{16417}	P_{35}	P_{16564}	P_{16517}	P_{17099}	P_{16417}	P_{16848}

Line 5 intersects

Line	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{16}	ℓ_{20}	ℓ_{23}	ℓ_{25}	ℓ_{26}
in point	P_{5656}	P_{32489}	P_{14952}	P_{19330}	P_{23341}	P_{20128}	P_{10827}	P_{12415}	P_{33219}	P_{16468}

Line 6 intersects

Line	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}
in point	P_{10319}	P_{12462}	P_{32916}	P_{16876}	P_{5656}	P_{26534}	P_{4642}	P_{11967}	P_{29014}	P_{19915}

Line 7 intersects

Line	ℓ_0	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_{12}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}
in point	P_{20410}	P_{13191}	P_{32977}	P_{17354}	P_{32489}	P_{30430}	P_{15858}	P_{30950}	P_{22340}	P_{11060}

Line 8 intersects

Line	ℓ_0	ℓ_1	ℓ_3	ℓ_4	ℓ_5	ℓ_{13}	ℓ_{17}	ℓ_{21}	ℓ_{22}	ℓ_{23}
in point	P_{19531}	P_{10353}	P_{33321}	P_{17279}	P_{14952}	P_{25284}	P_{27810}	P_{3485}	P_{9455}	P_{12650}

Line 9 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_4	ℓ_5	ℓ_{14}	ℓ_{18}	ℓ_{21}	ℓ_{24}	ℓ_{25}
in point	P_{19833}	P_{10520}	P_{13147}	P_{16417}	P_{19330}	P_{9508}	P_{25527}	P_{8978}	P_{16417}	P_{33160}

Line 10 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_5	ℓ_{15}	ℓ_{19}	ℓ_{22}	ℓ_{24}	ℓ_{26}
in point	P_{19990}	P_{10728}	P_{13017}	P_{32801}	P_{23341}	P_{13410}	P_{11622}	P_{26394}	P_{32801}	P_{16612}

Line 11 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_{16}	ℓ_{20}	ℓ_{23}	ℓ_{25}	ℓ_{26}
in point	P_{12}	P_{14}	P_{18}	P_{22}	P_{35}	P_{13}	P_{15}	P_{19}	P_{23}	P_{34}

Line 12 intersects

Line	ℓ_0	ℓ_1	ℓ_6	ℓ_7	ℓ_{21}	ℓ_{22}	ℓ_{23}	ℓ_{24}	ℓ_{25}	ℓ_{26}
in point	P_{20285}	P_{10989}	P_{26534}	P_{30430}	P_{6594}	P_{21147}	P_{12321}	P_{12321}	P_{33080}	P_{16729}

Line 13 intersects

Line	ℓ_0	ℓ_2	ℓ_6	ℓ_8	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{24}	ℓ_{25}	ℓ_{26}
in point	P_{20434}	P_{12920}	P_{4642}	P_{25284}	P_{32749}	P_{22805}	P_{10273}	P_{10273}	P_{33558}	P_{17053}

Line 14 intersects

Line	ℓ_0	ℓ_3	ℓ_6	ℓ_9	ℓ_{17}	ℓ_{19}	ℓ_{20}	ℓ_{22}	ℓ_{23}	ℓ_{26}
in point	P_{20023}	P_{33711}	P_{11967}	P_{9508}	P_{8999}	P_{7931}	P_{10496}	P_{27597}	P_{13155}	P_{16670}

Line 15 intersects

Line	ℓ_0	ℓ_4	ℓ_6	ℓ_{10}	ℓ_{17}	ℓ_{18}	ℓ_{20}	ℓ_{21}	ℓ_{23}	ℓ_{25}
in point	P_{20357}	P_{16564}	P_{29014}	P_{13410}	P_{29979}	P_{21323}	P_{10547}	P_{18457}	P_{12719}	P_{32841}

Line 16 intersects

Line	ℓ_0	ℓ_5	ℓ_6	ℓ_{11}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{21}	ℓ_{22}	ℓ_{24}
in point	P_{19571}	P_{20128}	P_{19915}	P_{13}	P_{19489}	P_{20046}	P_{20255}	P_{19657}	P_{20304}	P_{19489}

Line 17 intersects

Line	ℓ_1	ℓ_2	ℓ_7	ℓ_8	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{24}	ℓ_{25}	ℓ_{26}
in point	P_{11293}	P_{13302}	P_{15858}	P_{27810}	P_{8999}	P_{29979}	P_{19489}	P_{19489}	P_{33446}	P_{17320}

Line 18 intersects

Line	ℓ_1	ℓ_3	ℓ_7	ℓ_9	ℓ_{13}	ℓ_{15}	ℓ_{16}	ℓ_{22}	ℓ_{23}	ℓ_{26}
in point	P_{11015}	P_{33516}	P_{30950}	P_{25527}	P_{32749}	P_{21323}	P_{20046}	P_{24242}	P_{12553}	P_{16501}

Line 19 intersects

Line	ℓ_1	ℓ_4	ℓ_7	ℓ_{10}	ℓ_{13}	ℓ_{14}	ℓ_{16}	ℓ_{21}	ℓ_{23}	ℓ_{25}
in point	P_{10714}	P_{16517}	P_{22340}	P_{11622}	P_{22805}	P_{7931}	P_{20255}	P_{16340}	P_{12979}	P_{33495}

Line 20 intersects

Line	ℓ_1	ℓ_5	ℓ_7	ℓ_{11}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{21}	ℓ_{22}	ℓ_{24}
in point	P_{10410}	P_{10827}	P_{11060}	P_{15}	P_{10273}	P_{10496}	P_{10547}	P_{11151}	P_{10684}	P_{10273}

Line 21 intersects

Line	ℓ_2	ℓ_3	ℓ_8	ℓ_9	ℓ_{12}	ℓ_{15}	ℓ_{16}	ℓ_{19}	ℓ_{20}	ℓ_{26}
in point	P_{12383}	P_{33776}	P_{3485}	P_{8978}	P_{6594}	P_{18457}	P_{19657}	P_{16340}	P_{11151}	P_{16956}

Line 22 intersects

Line	ℓ_2	ℓ_4	ℓ_8	ℓ_{10}	ℓ_{12}	ℓ_{14}	ℓ_{16}	ℓ_{18}	ℓ_{20}	ℓ_{25}
in point	P_{13109}	P_{17099}	P_{9455}	P_{26394}	P_{21147}	P_{27597}	P_{20304}	P_{24242}	P_{10684}	P_{32958}

Line 23 intersects

Line	ℓ_2	ℓ_5	ℓ_8	ℓ_{11}	ℓ_{12}	ℓ_{14}	ℓ_{15}	ℓ_{18}	ℓ_{19}	ℓ_{24}
in point	P_{12844}	P_{12415}	P_{12650}	P_{19}	P_{12321}	P_{13155}	P_{12719}	P_{12553}	P_{12979}	P_{12321}

Line 24 intersects

Line	ℓ_3	ℓ_4	ℓ_9	ℓ_{10}	ℓ_{12}	ℓ_{13}	ℓ_{16}	ℓ_{17}	ℓ_{20}	ℓ_{23}
in point	P_{32801}	P_{16417}	P_{16417}	P_{32801}	P_{12321}	P_{10273}	P_{19489}	P_{19489}	P_{10273}	P_{12321}

Line 25 intersects

Line	ℓ_3	ℓ_5	ℓ_9	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{15}	ℓ_{17}	ℓ_{19}	ℓ_{22}
in point	P_{33696}	P_{33219}	P_{33160}	P_{23}	P_{33080}	P_{33558}	P_{32841}	P_{33446}	P_{33495}	P_{32958}

Line 26 intersects

Line	ℓ_4	ℓ_5	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{17}	ℓ_{18}	ℓ_{21}
in point	P_{16848}	P_{16468}	P_{16612}	P_{34}	P_{16729}	P_{17053}	P_{16670}	P_{17320}	P_{16501}	P_{16956}

The surface has 1249 points:
Too many to print.