

# Rank-65851 over GF(64)

January 15, 2021

## The equation

The equation of the surface is :

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

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

The point rank of the equation over GF(64) is -2113400763

## General information

Number of lines	15
Number of points	4417
Number of singular points	1
Number of Eckardt points	3
Number of double points	27
Number of single points	906
Number of points off lines	3480
Number of Hesse planes	0
Number of axes	0
Type of points on lines	$65^{15}$
Type of lines on points	$6, 3^3, 2^{27}, 1^{906}, 0^{3480}$

## Singular Points

The surface has 1 singular points:

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

## The 15 Lines

The lines and their Pluecker coordinates are:

$$\ell_0 = \begin{bmatrix} 1 & \epsilon^{21} & 0 & \epsilon^{49} \\ 0 & 0 & 1 & 0 \end{bmatrix}_{8230393} = \begin{bmatrix} 1 & 57 & 0 & 30 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{8230393} = \mathbf{Pl}(0, 61, 56, 0, 0, 1)_{277637}$$

$$\begin{aligned}
\ell_1 &= \begin{bmatrix} 1 & \epsilon^{42} & 0 & \epsilon^{56} \\ 0 & 0 & 1 & 0 \end{bmatrix}_{10889272} = \begin{bmatrix} 1 & 56 & 0 & 40 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{10889272} = \mathbf{Pl}(0, 58, 57, 0, 0, 1)_{277761} \\
\ell_2 &= \begin{bmatrix} 1 & \epsilon^{42} & 0 & \epsilon^{35} \\ 0 & 0 & 1 & 0 \end{bmatrix}_{5030584} = \begin{bmatrix} 1 & 56 & 0 & 18 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{5030584} = \mathbf{Pl}(0, 40, 57, 0, 0, 1)_{277743} \\
\ell_3 &= \begin{bmatrix} 1 & \epsilon^{21} & 0 & \epsilon^{28} \\ 0 & 0 & 1 & 0 \end{bmatrix}_{16485817} = \begin{bmatrix} 1 & 57 & 0 & 61 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{16485817} = \mathbf{Pl}(0, 35, 56, 0, 0, 1)_{277611} \\
\ell_4 &= \begin{bmatrix} 1 & \epsilon^{21} & 0 & \epsilon^7 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{9561913} = \begin{bmatrix} 1 & 57 & 0 & 35 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{9561913} = \mathbf{Pl}(0, 30, 56, 0, 0, 1)_{277606} \\
\ell_5 &= \begin{bmatrix} 1 & \epsilon^{42} & 0 & \epsilon^{14} \\ 0 & 0 & 1 & 0 \end{bmatrix}_{15682744} = \begin{bmatrix} 1 & 56 & 0 & 58 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{15682744} = \mathbf{Pl}(0, 18, 57, 0, 0, 1)_{277721} \\
\ell_6 &= \begin{bmatrix} 1 & 0 & \epsilon^{27} & \epsilon^{30} \\ 0 & 1 & \epsilon^{45} & \epsilon^{57} \end{bmatrix}_{14574995} = \begin{bmatrix} 1 & 0 & 46 & 54 \\ 0 & 1 & 37 & 49 \end{bmatrix}_{14574995} = \mathbf{Pl}(25, 62, 12, 8, 54, 1)_{14486313} \\
\ell_7 &= \begin{bmatrix} 1 & 0 & \epsilon^{27} & \epsilon^9 \\ 0 & 1 & \epsilon^{45} & \epsilon^{36} \end{bmatrix}_{12710035} = \begin{bmatrix} 1 & 0 & 46 & 47 \\ 0 & 1 & 37 & 36 \end{bmatrix}_{12710035} = \mathbf{Pl}(47, 10, 11, 37, 47, 1)_{12647869} \\
\ell_8 &= \begin{bmatrix} 1 & 0 & \epsilon^{27} & \epsilon^{51} \\ 0 & 1 & \epsilon^{45} & \epsilon^{15} \end{bmatrix}_{6850387} = \begin{bmatrix} 1 & 0 & 46 & 25 \\ 0 & 1 & 37 & 21 \end{bmatrix}_{6850387} = \mathbf{Pl}(54, 52, 7, 45, 25, 1)_{6866492} \\
\ell_9 &= \begin{bmatrix} 1 & 0 & \epsilon^{54} & \epsilon^{60} \\ 0 & 1 & \epsilon^{27} & \epsilon^{51} \end{bmatrix}_{3238904} = \begin{bmatrix} 1 & 0 & 10 & 12 \\ 0 & 1 & 46 & 25 \end{bmatrix}_{3238904} = \mathbf{Pl}(7, 45, 49, 33, 12, 1)_{3625158} \\
\ell_{10} &= \begin{bmatrix} 1 & 0 & \epsilon^{54} & \epsilon^{18} \\ 0 & 1 & \epsilon^{27} & \epsilon^9 \end{bmatrix}_{2974008} = \begin{bmatrix} 1 & 0 & 10 & 11 \\ 0 & 1 & 46 & 47 \end{bmatrix}_{2974008} = \mathbf{Pl}(11, 37, 36, 46, 11, 1)_{3312304} \\
\ell_{11} &= \begin{bmatrix} 1 & 0 & \epsilon^{54} & \epsilon^{39} \\ 0 & 1 & \epsilon^{27} & \epsilon^{30} \end{bmatrix}_{1909240} = \begin{bmatrix} 1 & 0 & 10 & 7 \\ 0 & 1 & 46 & 54 \end{bmatrix}_{1909240} = \mathbf{Pl}(12, 8, 21, 15, 7, 1)_{2205395} \\
\ell_{12} &= \begin{bmatrix} 1 & 0 & \epsilon^{45} & \epsilon^{57} \\ 0 & 1 & \epsilon^{54} & \epsilon^{39} \end{bmatrix}_{13203311} = \begin{bmatrix} 1 & 0 & 37 & 49 \\ 0 & 1 & 10 & 7 \end{bmatrix}_{13203311} = \mathbf{Pl}(21, 15, 25, 62, 49, 1)_{13228955} \\
\ell_{13} &= \begin{bmatrix} 1 & 0 & \epsilon^{45} & \epsilon^{36} \\ 0 & 1 & \epsilon^{54} & \epsilon^{18} \end{bmatrix}_{9741615} = \begin{bmatrix} 1 & 0 & 37 & 36 \\ 0 & 1 & 10 & 11 \end{bmatrix}_{9741615} = \mathbf{Pl}(36, 46, 47, 10, 36, 1)_{9907862} \\
\ell_{14} &= \begin{bmatrix} 1 & 0 & \epsilon^{45} & \epsilon^{15} \\ 0 & 1 & \epsilon^{54} & \epsilon^{60} \end{bmatrix}_{5747119} = \begin{bmatrix} 1 & 0 & 37 & 21 \\ 0 & 1 & 10 & 12 \end{bmatrix}_{5747119} = \mathbf{Pl}(49, 33, 54, 52, 21, 1)_{6004017}
\end{aligned}$$

Rank of lines: ( 8230393, 10889272, 5030584, 16485817, 9561913, 15682744, 14574995, 12710035, 6850387, 3238904, 2974008, 1909240, 13203311, 9741615, 5747119 )

Rank of points on Klein quadric: ( 277637, 277761, 277743, 277611, 277606, 277721, 14486313, 12647869, 6866492, 3625158, 3312304, 2205395, 13228955, 9907862, 6004017 )

### Eckardt Points

The surface has 3 Eckardt points:

$$\begin{aligned}
0 : P_{718} &= \mathbf{P}(\epsilon^{18}, \epsilon^{54}, 1, 0) = \mathbf{P}(11, 10, 1, 0), \\
1 : P_{2471} &= \mathbf{P}(\epsilon^{36}, \epsilon^{45}, 1, 0) = \mathbf{P}(36, 37, 1, 0), \\
2 : P_{3058} &= \mathbf{P}(\epsilon^9, \epsilon^{27}, 1, 0) = \mathbf{P}(47, 46, 1, 0).
\end{aligned}$$

### Double Points

The surface has 27 Double points:

The double points on the surface are:

$$\begin{aligned}
P_{173307} &= (58, 18, 41, 1) = \ell_0 \cap \ell_7 \\
P_{70907} &= (58, 18, 16, 1) = \ell_0 \cap \ell_{11} \\
P_{75003} &= (58, 18, 17, 1) = \ell_0 \cap \ell_{14} \\
P_{22500} &= (35, 30, 4, 1) = \ell_1 \cap \ell_8 \\
P_{26596} &= (35, 30, 5, 1) = \ell_1 \cap \ell_{11} \\
P_{251876} &= (35, 30, 60, 1) = \ell_1 \cap \ell_{13} \\
P_{162110} &= (61, 35, 38, 1) = \ell_2 \cap \ell_6 \\
P_{133438} &= (61, 35, 31, 1) = \ell_2 \cap \ell_{10} \\
P_{166206} &= (61, 35, 39, 1) = \ell_2 \cap \ell_{14} \\
P_{19027} &= (18, 40, 3, 1) = \ell_3 \cap \ell_8 \\
P_{248403} &= (18, 40, 59, 1) = \ell_3 \cap \ell_{10} \\
P_{14931} &= (18, 40, 2, 1) = \ell_3 \cap \ell_{12} \\
P_{179945} &= (40, 58, 42, 1) = \ell_4 \cap \ell_6 \\
P_{184041} &= (40, 58, 43, 1) = \ell_4 \cap \ell_9
\end{aligned}$$

$$\begin{aligned}
P_{85737} &= (40, 58, 19, 1) = \ell_4 \cap \ell_{13} \\
P_{147359} &= (30, 61, 34, 1) = \ell_5 \cap \ell_7 \\
P_{114591} &= (30, 61, 26, 1) = \ell_5 \cap \ell_9 \\
P_{118687} &= (30, 61, 27, 1) = \ell_5 \cap \ell_{12} \\
P_{140685} &= (12, 21, 33, 1) = \ell_6 \cap \ell_{11} \\
P_{189274} &= (25, 12, 45, 1) = \ell_6 \cap \ell_{12} \\
P_{194892} &= (11, 36, 46, 1) = \ell_7 \cap \ell_{10} \\
P_{156464} &= (47, 11, 37, 1) = \ell_7 \cap \ell_{13} \\
P_{68744} &= (7, 49, 15, 1) = \ell_8 \cap \ell_9 \\
P_{37431} &= (54, 7, 8, 1) = \ell_8 \cap \ell_{14} \\
P_{261618} &= (49, 54, 62, 1) = \ell_9 \cap \ell_{14} \\
P_{48165} &= (36, 47, 10, 1) = \ell_{10} \cap \ell_{13} \\
P_{218774} &= (21, 25, 52, 1) = \ell_{11} \cap \ell_{12}
\end{aligned}$$

### Single Points

The surface has 906 single points:  
The single points on the surface are:

$$\begin{aligned}
0 : P_{4672} &= (62, 7, 0, 1) \text{ lies on line } \ell_9 \\
1 : P_{4876} &= (10, 11, 0, 1) \text{ lies on line } \ell_{10} \\
2 : P_{4982} &= (52, 12, 0, 1) \text{ lies on line } \ell_{11} \\
3 : P_{5372} &= (58, 18, 0, 1) \text{ lies on line } \ell_0 \\
4 : P_{5551} &= (45, 21, 0, 1) \text{ lies on line } \ell_{12} \\
5 : P_{5795} &= (33, 25, 0, 1) \text{ lies on line } \ell_6 \\
6 : P_{6117} &= (35, 30, 0, 1) \text{ lies on line } \ell_1 \\
7 : P_{6463} &= (61, 35, 0, 1) \text{ lies on line } \ell_2 \\
8 : P_{6503} &= (37, 36, 0, 1) \text{ lies on line } \ell_{13} \\
9 : P_{6740} &= (18, 40, 0, 1) \text{ lies on line } \ell_3 \\
10 : P_{7216} &= (46, 47, 0, 1) \text{ lies on line } \ell_7 \\
11 : P_{7306} &= (8, 49, 0, 1) \text{ lies on line } \ell_{14} \\
12 : P_{7633} &= (15, 54, 0, 1) \text{ lies on line } \ell_8 \\
13 : P_{7914} &= (40, 58, 0, 1) \text{ lies on line } \ell_4 \\
14 : P_{8096} &= (30, 61, 0, 1) \text{ lies on line } \ell_5 \\
15 : P_{8907} &= (10, 10, 1, 1) \text{ lies on line } \ell_{13} \\
16 : P_{9467} &= (58, 18, 1, 1) \text{ lies on line } \ell_0 \\
17 : P_{9515} &= (42, 19, 1, 1) \text{ lies on line } \ell_6 \\
18 : P_{10212} &= (35, 30, 1, 1) \text{ lies on line } \ell_1 \\
19 : P_{10280} &= (39, 31, 1, 1) \text{ lies on line } \ell_{14} \\
20 : P_{10459} &= (26, 34, 1, 1) \text{ lies on line } \ell_9 \\
21 : P_{10558} &= (61, 35, 1, 1) \text{ lies on line } \ell_2 \\
22 : P_{10662} &= (37, 37, 1, 1) \text{ lies on line } \ell_7 \\
23 : P_{10835} &= (18, 40, 1, 1) \text{ lies on line } \ell_3 \\
24 : P_{10897} &= (16, 41, 1, 1) \text{ lies on line } \ell_{11} \\
25 : P_{11247} &= (46, 46, 1, 1) \text{ lies on line } \ell_{10} \\
26 : P_{12009} &= (40, 58, 1, 1) \text{ lies on line } \ell_4 \\
27 : P_{12035} &= (2, 59, 1, 1) \text{ lies on line } \ell_{12} \\
28 : P_{12101} &= (4, 60, 1, 1) \text{ lies on line } \ell_8 \\
29 : P_{12191} &= (30, 61, 1, 1) \text{ lies on line } \ell_5 \\
30 : P_{13176} &= (55, 12, 2, 1) \text{ lies on line } \ell_{14} \\
31 : P_{13240} &= (55, 13, 2, 1) \text{ lies on line } \ell_6 \\
32 : P_{13563} &= (58, 18, 2, 1) \text{ lies on line } \ell_0
\end{aligned}$$

$$\begin{aligned}
33 : P_{13979} &= (26, 25, 2, 1) \text{ lies on line } \ell_{13} \\
34 : P_{14308} &= (35, 30, 2, 1) \text{ lies on line } \ell_1 \\
35 : P_{14436} &= (35, 32, 2, 1) \text{ lies on line } \ell_{10} \\
36 : P_{14554} &= (25, 34, 2, 1) \text{ lies on line } \ell_8 \\
37 : P_{14654} &= (61, 35, 2, 1) \text{ lies on line } \ell_2 \\
38 : P_{14878} &= (29, 39, 2, 1) \text{ lies on line } \ell_{11} \\
39 : P_{15192} &= (23, 44, 2, 1) \text{ lies on line } \ell_9 \\
40 : P_{16105} &= (40, 58, 2, 1) \text{ lies on line } \ell_4 \\
41 : P_{16185} &= (56, 59, 2, 1) \text{ lies on line } \ell_7 \\
42 : P_{16287} &= (30, 61, 2, 1) \text{ lies on line } \ell_5 \\
43 : P_{16634} &= (57, 2, 3, 1) \text{ lies on line } \ell_{11} \\
44 : P_{16776} &= (7, 5, 3, 1) \text{ lies on line } \ell_{10} \\
45 : P_{16894} &= (61, 6, 3, 1) \text{ lies on line } \ell_{12} \\
46 : P_{16957} &= (60, 7, 3, 1) \text{ lies on line } \ell_6 \\
47 : P_{17076} &= (51, 9, 3, 1) \text{ lies on line } \ell_9 \\
48 : P_{17659} &= (58, 18, 3, 1) \text{ lies on line } \ell_0 \\
49 : P_{18404} &= (35, 30, 3, 1) \text{ lies on line } \ell_1 \\
50 : P_{18649} &= (24, 34, 3, 1) \text{ lies on line } \ell_{14} \\
51 : P_{18750} &= (61, 35, 3, 1) \text{ lies on line } \ell_2 \\
52 : P_{19636} &= (51, 49, 3, 1) \text{ lies on line } \ell_7 \\
53 : P_{20022} &= (53, 55, 3, 1) \text{ lies on line } \ell_{13} \\
54 : P_{20201} &= (40, 58, 3, 1) \text{ lies on line } \ell_4 \\
55 : P_{20383} &= (30, 61, 3, 1) \text{ lies on line } \ell_5 \\
56 : P_{20995} &= (2, 7, 4, 1) \text{ lies on line } \ell_7 \\
57 : P_{21491} &= (50, 14, 4, 1) \text{ lies on line } \ell_{12} \\
58 : P_{21755} &= (58, 18, 4, 1) \text{ lies on line } \ell_0 \\
59 : P_{22846} &= (61, 35, 4, 1) \text{ lies on line } \ell_2 \\
60 : P_{23123} &= (18, 40, 4, 1) \text{ lies on line } \ell_3 \\
61 : P_{23256} &= (23, 42, 4, 1) \text{ lies on line } \ell_{14} \\
62 : P_{23630} &= (13, 48, 4, 1) \text{ lies on line } \ell_9 \\
63 : P_{23694} &= (13, 49, 4, 1) \text{ lies on line } \ell_6 \\
64 : P_{24297} &= (40, 58, 4, 1) \text{ lies on line } \ell_4 \\
65 : P_{24328} &= (7, 59, 4, 1) \text{ lies on line } \ell_{11}
\end{aligned}$$

66 :  $P_{24442} = (57, 60, 4, 1)$  lies on line  $\ell_{10}$   
67 :  $P_{24479} = (30, 61, 4, 1)$  lies on line  $\ell_5$   
68 :  $P_{24635} = (58, 63, 4, 1)$  lies on line  $\ell_{13}$   
69 :  $P_{24953} = (56, 4, 5, 1)$  lies on line  $\ell_{14}$   
70 :  $P_{25482} = (9, 13, 5, 1)$  lies on line  $\ell_7$   
71 :  $P_{25750} = (21, 17, 5, 1)$  lies on line  $\ell_{13}$   
72 :  $P_{25851} = (58, 18, 5, 1)$  lies on line  $\ell_0$   
73 :  $P_{25961} = (40, 20, 5, 1)$  lies on line  $\ell_8$   
74 :  $P_{26026} = (41, 21, 5, 1)$  lies on line  $\ell_9$   
75 :  $P_{26270} = (29, 25, 5, 1)$  lies on line  $\ell_{10}$   
76 :  $P_{26718} = (29, 32, 5, 1)$  lies on line  $\ell_{12}$   
77 :  $P_{26942} = (61, 35, 5, 1)$  lies on line  $\ell_2$   
78 :  $P_{27219} = (18, 40, 5, 1)$  lies on line  $\ell_3$   
79 :  $P_{28393} = (40, 58, 5, 1)$  lies on line  $\ell_4$   
80 :  $P_{28423} = (6, 59, 5, 1)$  lies on line  $\ell_6$   
81 :  $P_{28575} = (30, 61, 5, 1)$  lies on line  $\ell_5$   
82 :  $P_{28870} = (5, 2, 6, 1)$  lies on line  $\ell_{13}$   
83 :  $P_{29430} = (53, 10, 6, 1)$  lies on line  $\ell_8$   
84 :  $P_{29807} = (46, 16, 6, 1)$  lies on line  $\ell_{11}$   
85 :  $P_{29947} = (58, 18, 6, 1)$  lies on line  $\ell_0$   
86 :  $P_{29973} = (20, 19, 6, 1)$  lies on line  $\ell_7$   
87 :  $P_{30225} = (16, 23, 6, 1)$  lies on line  $\ell_{10}$   
88 :  $P_{30249} = (40, 23, 6, 1)$  lies on line  $\ell_{14}$   
89 :  $P_{30501} = (36, 27, 6, 1)$  lies on line  $\ell_9$   
90 :  $P_{30692} = (35, 30, 6, 1)$  lies on line  $\ell_1$   
91 :  $P_{31038} = (61, 35, 6, 1)$  lies on line  $\ell_2$   
92 :  $P_{31132} = (27, 37, 6, 1)$  lies on line  $\ell_6$   
93 :  $P_{31315} = (18, 40, 6, 1)$  lies on line  $\ell_3$   
94 :  $P_{32014} = (13, 51, 6, 1)$  lies on line  $\ell_{12}$   
95 :  $P_{32489} = (40, 58, 6, 1)$  lies on line  $\ell_4$   
96 :  $P_{32671} = (30, 61, 6, 1)$  lies on line  $\ell_5$   
97 :  $P_{32895} = (62, 0, 7, 1)$  lies on line  $\ell_8$   
98 :  $P_{34043} = (58, 18, 7, 1)$  lies on line  $\ell_0$   
99 :  $P_{34464} = (31, 25, 7, 1)$  lies on line  $\ell_7$   
100 :  $P_{34723} = (34, 29, 7, 1)$  lies on line  $\ell_{12}$   
101 :  $P_{34788} = (35, 30, 7, 1)$  lies on line  $\ell_1$   
102 :  $P_{35134} = (61, 35, 7, 1)$  lies on line  $\ell_2$   
103 :  $P_{35411} = (18, 40, 7, 1)$  lies on line  $\ell_3$   
104 :  $P_{35691} = (42, 44, 7, 1)$  lies on line  $\ell_{13}$   
105 :  $P_{35857} = (16, 47, 7, 1)$  lies on line  $\ell_6$   
106 :  $P_{36085} = (52, 50, 7, 1)$  lies on line  $\ell_{10}$   
107 :  $P_{36235} = (10, 53, 7, 1)$  lies on line  $\ell_{11}$   
108 :  $P_{36488} = (7, 57, 7, 1)$  lies on line  $\ell_{14}$   
109 :  $P_{36585} = (40, 58, 7, 1)$  lies on line  $\ell_4$   
110 :  $P_{36767} = (30, 61, 7, 1)$  lies on line  $\ell_5$   
111 :  $P_{36801} = (0, 62, 7, 1)$  lies on line  $\ell_9$   
112 :  $P_{37172} = (51, 3, 8, 1)$  lies on line  $\ell_{11}$   
113 :  $P_{37198} = (13, 4, 8, 1)$  lies on line  $\ell_{10}$   
114 :  $P_{37498} = (57, 8, 8, 1)$  lies on line  $\ell_9$   
115 :  $P_{38108} = (27, 18, 8, 1)$  lies on line  $\ell_{13}$   
116 :  $P_{38139} = (58, 18, 8, 1)$  lies on line  $\ell_0$   
117 :  $P_{38872} = (23, 30, 8, 1)$  lies on line  $\ell_7$   
118 :  $P_{38884} = (35, 30, 8, 1)$  lies on line  $\ell_1$   
119 :  $P_{39188} = (19, 35, 8, 1)$  lies on line  $\ell_{12}$   
120 :  $P_{39230} = (61, 35, 8, 1)$  lies on line  $\ell_2$   
121 :  $P_{39507} = (18, 40, 8, 1)$  lies on line  $\ell_3$   
122 :  $P_{39513} = (24, 40, 8, 1)$  lies on line  $\ell_6$   
123 :  $P_{40681} = (40, 58, 8, 1)$  lies on line  $\ell_4$   
124 :  $P_{40863} = (30, 61, 8, 1)$  lies on line  $\ell_5$   
125 :  $P_{41917} = (60, 13, 9, 1)$  lies on line  $\ell_{12}$   
126 :  $P_{41918} = (61, 13, 9, 1)$  lies on line  $\ell_8$   
127 :  $P_{42235} = (58, 18, 9, 1)$  lies on line  $\ell_0$   
128 :  $P_{42333} = (28, 20, 9, 1)$  lies on line  $\ell_7$   
129 :  $P_{42980} = (35, 30, 9, 1)$  lies on line  $\ell_1$   
130 :  $P_{43178} = (41, 33, 9, 1)$  lies on line  $\ell_{10}$   
131 :  $P_{43220} = (19, 34, 9, 1)$  lies on line  $\ell_6$   
132 :  $P_{43326} = (61, 35, 9, 1)$  lies on line  $\ell_2$   
133 :  $P_{43480} = (23, 38, 9, 1)$  lies on line  $\ell_{11}$   
134 :  $P_{43603} = (18, 40, 9, 1)$  lies on line  $\ell_3$   
135 :  $P_{43674} = (25, 41, 9, 1)$  lies on line  $\ell_{14}$   
136 :  $P_{43934} = (29, 45, 9, 1)$  lies on line  $\ell_9$   
137 :  $P_{44777} = (40, 58, 9, 1)$  lies on line  $\ell_4$   
138 :  $P_{44917} = (52, 60, 9, 1)$  lies on line  $\ell_{13}$   
139 :  $P_{44959} = (30, 61, 9, 1)$  lies on line  $\ell_5$   
140 :  $P_{45762} = (1, 10, 10, 1)$  lies on line  $\ell_7$   
141 :  $P_{46331} = (58, 18, 10, 1)$  lies on line  $\ell_0$   
142 :  $P_{46369} = (32, 19, 10, 1)$  lies on line  $\ell_8$   
143 :  $P_{47076} = (35, 30, 10, 1)$  lies on line  $\ell_1$   
144 :  $P_{47085} = (44, 30, 10, 1)$  lies on line  $\ell_{12}$   
145 :  $P_{47377} = (16, 35, 10, 1)$  lies on line  $\ell_9$   
146 :  $P_{47422} = (61, 35, 10, 1)$  lies on line  $\ell_2$   
147 :  $P_{47699} = (18, 40, 10, 1)$  lies on line  $\ell_3$   
148 :  $P_{47707} = (26, 40, 10, 1)$  lies on line  $\ell_{11}$   
149 :  $P_{48842} = (9, 58, 10, 1)$  lies on line  $\ell_{14}$   
150 :  $P_{48873} = (40, 58, 10, 1)$  lies on line  $\ell_4$   
151 :  $P_{48975} = (14, 60, 10, 1)$  lies on line  $\ell_6$   
152 :  $P_{49055} = (30, 61, 10, 1)$  lies on line  $\ell_5$   
153 :  $P_{49227} = (10, 0, 11, 1)$  lies on line  $\ell_7$   
154 :  $P_{49292} = (11, 1, 11, 1)$  lies on line  $\ell_{13}$   
155 :  $P_{49653} = (52, 6, 11, 1)$  lies on line  $\ell_9$   
156 :  $P_{49857} = (0, 10, 11, 1)$  lies on line  $\ell_{10}$   
157 :  $P_{50111} = (62, 13, 11, 1)$  lies on line  $\ell_{11}$   
158 :  $P_{50427} = (58, 18, 11, 1)$  lies on line  $\ell_0$   
159 :  $P_{50535} = (38, 20, 11, 1)$  lies on line  $\ell_{14}$   
160 :  $P_{50860} = (43, 25, 11, 1)$  lies on line  $\ell_8$   
161 :  $P_{51172} = (35, 30, 11, 1)$  lies on line  $\ell_1$   
162 :  $P_{51518} = (61, 35, 11, 1)$  lies on line  $\ell_2$   
163 :  $P_{51795} = (18, 40, 11, 1)$  lies on line  $\ell_3$   
164 :  $P_{52292} = (3, 48, 11, 1)$  lies on line  $\ell_{12}$   
165 :  $P_{52678} = (5, 54, 11, 1)$  lies on line  $\ell_6$   
166 :  $P_{52969} = (40, 58, 11, 1)$  lies on line  $\ell_4$   
167 :  $P_{53151} = (30, 61, 11, 1)$  lies on line  $\ell_5$   
168 :  $P_{53365} = (52, 0, 12, 1)$  lies on line  $\ell_6$   
169 :  $P_{53893} = (4, 9, 12, 1)$  lies on line  $\ell_{13}$   
170 :  $P_{54523} = (58, 18, 12, 1)$  lies on line  $\ell_0$   
171 :  $P_{55146} = (41, 28, 12, 1)$  lies on line  $\ell_{14}$   
172 :  $P_{55268} = (35, 30, 12, 1)$  lies on line  $\ell_1$   
173 :  $P_{55614} = (61, 35, 12, 1)$  lies on line  $\ell_2$

174 :  $P_{55891} = (18, 40, 12, 1)$  lies on line  $\ell_3$   
 175 :  $P_{56347} = (26, 47, 12, 1)$  lies on line  $\ell_8$   
 176 :  $P_{56639} = (62, 51, 12, 1)$  lies on line  $\ell_{10}$   
 177 :  $P_{56641} = (0, 52, 12, 1)$  lies on line  $\ell_{11}$   
 178 :  $P_{56828} = (59, 54, 12, 1)$  lies on line  $\ell_7$   
 179 :  $P_{56909} = (12, 56, 12, 1)$  lies on line  $\ell_{12}$   
 180 :  $P_{57065} = (40, 58, 12, 1)$  lies on line  $\ell_4$   
 181 :  $P_{57247} = (30, 61, 12, 1)$  lies on line  $\ell_5$   
 182 :  $P_{57355} = (10, 63, 12, 1)$  lies on line  $\ell_9$   
 183 :  $P_{58112} = (63, 10, 13, 1)$  lies on line  $\ell_6$   
 184 :  $P_{58533} = (36, 17, 13, 1)$  lies on line  $\ell_{11}$   
 185 :  $P_{58619} = (58, 18, 13, 1)$  lies on line  $\ell_0$   
 186 :  $P_{58843} = (26, 22, 13, 1)$  lies on line  $\ell_{10}$   
 187 :  $P_{58852} = (35, 22, 13, 1)$  lies on line  $\ell_{12}$   
 188 :  $P_{59119} = (46, 26, 13, 1)$  lies on line  $\ell_9$   
 189 :  $P_{59364} = (35, 30, 13, 1)$  lies on line  $\ell_1$   
 190 :  $P_{59710} = (61, 35, 13, 1)$  lies on line  $\ell_2$   
 191 :  $P_{59794} = (17, 37, 13, 1)$  lies on line  $\ell_8$   
 192 :  $P_{59948} = (43, 39, 13, 1)$  lies on line  $\ell_{13}$   
 193 :  $P_{59987} = (18, 40, 13, 1)$  lies on line  $\ell_3$   
 194 :  $P_{60615} = (6, 50, 13, 1)$  lies on line  $\ell_{14}$   
 195 :  $P_{61161} = (40, 58, 13, 1)$  lies on line  $\ell_4$   
 196 :  $P_{61297} = (48, 60, 13, 1)$  lies on line  $\ell_7$   
 197 :  $P_{61343} = (30, 61, 13, 1)$  lies on line  $\ell_5$   
 198 :  $P_{61876} = (51, 5, 14, 1)$  lies on line  $\ell_{12}$   
 199 :  $P_{62715} = (58, 18, 14, 1)$  lies on line  $\ell_0$   
 200 :  $P_{62819} = (34, 20, 14, 1)$  lies on line  $\ell_6$   
 201 :  $P_{62820} = (35, 20, 14, 1)$  lies on line  $\ell_9$   
 202 :  $P_{63064} = (23, 24, 14, 1)$  lies on line  $\ell_{10}$   
 203 :  $P_{63460} = (35, 30, 14, 1)$  lies on line  $\ell_1$   
 204 :  $P_{63530} = (41, 31, 14, 1)$  lies on line  $\ell_{11}$   
 205 :  $P_{63639} = (22, 33, 14, 1)$  lies on line  $\ell_{14}$   
 206 :  $P_{63726} = (45, 34, 14, 1)$  lies on line  $\ell_7$   
 207 :  $P_{63806} = (61, 35, 14, 1)$  lies on line  $\ell_2$   
 208 :  $P_{64083} = (18, 40, 14, 1)$  lies on line  $\ell_3$   
 209 :  $P_{64892} = (59, 52, 14, 1)$  lies on line  $\ell_{13}$   
 210 :  $P_{65257} = (40, 58, 14, 1)$  lies on line  $\ell_4$   
 211 :  $P_{65293} = (12, 59, 14, 1)$  lies on line  $\ell_8$   
 212 :  $P_{65439} = (30, 61, 14, 1)$  lies on line  $\ell_5$   
 213 :  $P_{66618} = (57, 15, 15, 1)$  lies on line  $\ell_{14}$   
 214 :  $P_{66811} = (58, 18, 15, 1)$  lies on line  $\ell_0$   
 215 :  $P_{67285} = (20, 26, 15, 1)$  lies on line  $\ell_{13}$   
 216 :  $P_{67556} = (35, 30, 15, 1)$  lies on line  $\ell_1$   
 217 :  $P_{67562} = (41, 30, 15, 1)$  lies on line  $\ell_6$   
 218 :  $P_{67902} = (61, 35, 15, 1)$  lies on line  $\ell_2$   
 219 :  $P_{68179} = (18, 40, 15, 1)$  lies on line  $\ell_3$   
 220 :  $P_{68199} = (38, 40, 15, 1)$  lies on line  $\ell_7$   
 221 :  $P_{68381} = (28, 43, 15, 1)$  lies on line  $\ell_{12}$   
 222 :  $P_{69326} = (13, 58, 15, 1)$  lies on line  $\ell_{11}$   
 223 :  $P_{69353} = (40, 58, 15, 1)$  lies on line  $\ell_4$   
 224 :  $P_{69535} = (30, 61, 15, 1)$  lies on line  $\ell_5$   
 225 :  $P_{69556} = (51, 61, 15, 1)$  lies on line  $\ell_{10}$   
 226 :  $P_{71045} = (4, 21, 16, 1)$  lies on line  $\ell_{10}$   
 227 :  $P_{71281} = (48, 24, 16, 1)$  lies on line  $\ell_{12}$   
 228 :  $P_{71345} = (48, 25, 16, 1)$  lies on line  $\ell_9$   
 229 :  $P_{71411} = (50, 26, 16, 1)$  lies on line  $\ell_6$   
 230 :  $P_{71652} = (35, 30, 16, 1)$  lies on line  $\ell_1$   
 231 :  $P_{71998} = (61, 35, 16, 1)$  lies on line  $\ell_2$   
 232 :  $P_{72275} = (18, 40, 16, 1)$  lies on line  $\ell_3$   
 233 :  $P_{72377} = (56, 41, 16, 1)$  lies on line  $\ell_{13}$   
 234 :  $P_{72574} = (61, 44, 16, 1)$  lies on line  $\ell_7$   
 235 :  $P_{73117} = (28, 53, 16, 1)$  lies on line  $\ell_8$   
 236 :  $P_{73449} = (40, 58, 16, 1)$  lies on line  $\ell_4$   
 237 :  $P_{73558} = (21, 60, 16, 1)$  lies on line  $\ell_{14}$   
 238 :  $P_{73631} = (30, 61, 16, 1)$  lies on line  $\ell_5$   
 239 :  $P_{74264} = (23, 7, 17, 1)$  lies on line  $\ell_{13}$   
 240 :  $P_{74874} = (57, 16, 17, 1)$  lies on line  $\ell_6$   
 241 :  $P_{75748} = (35, 30, 17, 1)$  lies on line  $\ell_1$   
 242 :  $P_{76094} = (61, 35, 17, 1)$  lies on line  $\ell_2$   
 243 :  $P_{76279} = (54, 38, 17, 1)$  lies on line  $\ell_7$   
 244 :  $P_{76371} = (18, 40, 17, 1)$  lies on line  $\ell_3$   
 245 :  $P_{76897} = (32, 48, 17, 1)$  lies on line  $\ell_{10}$   
 246 :  $P_{77280} = (31, 54, 17, 1)$  lies on line  $\ell_{12}$   
 247 :  $P_{77343} = (30, 55, 17, 1)$  lies on line  $\ell_{11}$   
 248 :  $P_{77545} = (40, 58, 17, 1)$  lies on line  $\ell_4$   
 249 :  $P_{77653} = (20, 60, 17, 1)$  lies on line  $\ell_9$   
 250 :  $P_{77727} = (30, 61, 17, 1)$  lies on line  $\ell_5$   
 251 :  $P_{77848} = (23, 63, 17, 1)$  lies on line  $\ell_8$   
 252 :  $P_{77995} = (42, 1, 18, 1)$  lies on line  $\ell_{14}$   
 253 :  $P_{78821} = (36, 14, 18, 1)$  lies on line  $\ell_6$   
 254 :  $P_{79099} = (58, 18, 18, 1)$  lies on line  $\ell_0$   
 255 :  $P_{79176} = (7, 20, 18, 1)$  lies on line  $\ell_{13}$   
 256 :  $P_{79844} = (35, 30, 18, 1)$  lies on line  $\ell_1$   
 257 :  $P_{80011} = (10, 33, 18, 1)$  lies on line  $\ell_8$   
 258 :  $P_{80190} = (61, 35, 18, 1)$  lies on line  $\ell_2$   
 259 :  $P_{80272} = (15, 37, 18, 1)$  lies on line  $\ell_{12}$   
 260 :  $P_{80467} = (18, 40, 18, 1)$  lies on line  $\ell_3$   
 261 :  $P_{81114} = (25, 50, 18, 1)$  lies on line  $\ell_9$   
 262 :  $P_{81516} = (43, 56, 18, 1)$  lies on line  $\ell_7$   
 263 :  $P_{81556} = (19, 57, 18, 1)$  lies on line  $\ell_{11}$   
 264 :  $P_{81641} = (40, 58, 18, 1)$  lies on line  $\ell_4$   
 265 :  $P_{81823} = (30, 61, 18, 1)$  lies on line  $\ell_5$   
 266 :  $P_{81902} = (45, 62, 18, 1)$  lies on line  $\ell_{10}$   
 267 :  $P_{82288} = (47, 4, 19, 1)$  lies on line  $\ell_6$   
 268 :  $P_{82721} = (32, 11, 19, 1)$  lies on line  $\ell_{12}$   
 269 :  $P_{83195} = (58, 18, 19, 1)$  lies on line  $\ell_0$   
 270 :  $P_{83518} = (61, 23, 19, 1)$  lies on line  $\ell_9$   
 271 :  $P_{83722} = (9, 27, 19, 1)$  lies on line  $\ell_{10}$   
 272 :  $P_{83832} = (55, 28, 19, 1)$  lies on line  $\ell_{11}$   
 273 :  $P_{83940} = (35, 30, 19, 1)$  lies on line  $\ell_1$   
 274 :  $P_{84286} = (61, 35, 19, 1)$  lies on line  $\ell_2$   
 275 :  $P_{84563} = (18, 40, 19, 1)$  lies on line  $\ell_3$   
 276 :  $P_{84738} = (1, 43, 19, 1)$  lies on line  $\ell_8$   
 277 :  $P_{84998} = (5, 47, 19, 1)$  lies on line  $\ell_{14}$   
 278 :  $P_{85217} = (32, 50, 19, 1)$  lies on line  $\ell_7$   
 279 :  $P_{85919} = (30, 61, 19, 1)$  lies on line  $\ell_5$   
 280 :  $P_{86320} = (47, 3, 20, 1)$  lies on line  $\ell_{12}$   
 281 :  $P_{86354} = (17, 4, 20, 1)$  lies on line  $\ell_7$

282 :  $P_{87291} = (58, 18, 20, 1)$  lies on line  $\ell_0$   
 283 :  $P_{87985} = (48, 29, 20, 1)$  lies on line  $\ell_8$   
 284 :  $P_{88036} = (35, 30, 20, 1)$  lies on line  $\ell_1$   
 285 :  $P_{88312} = (55, 34, 20, 1)$  lies on line  $\ell_{10}$   
 286 :  $P_{88382} = (61, 35, 20, 1)$  lies on line  $\ell_2$   
 287 :  $P_{88458} = (9, 37, 20, 1)$  lies on line  $\ell_{11}$   
 288 :  $P_{88587} = (10, 39, 20, 1)$  lies on line  $\ell_{14}$   
 289 :  $P_{88659} = (18, 40, 20, 1)$  lies on line  $\ell_3$   
 290 :  $P_{89028} = (3, 46, 20, 1)$  lies on line  $\ell_9$   
 291 :  $P_{89311} = (30, 50, 20, 1)$  lies on line  $\ell_6$   
 292 :  $P_{89320} = (39, 50, 20, 1)$  lies on line  $\ell_{13}$   
 293 :  $P_{89833} = (40, 58, 20, 1)$  lies on line  $\ell_4$   
 294 :  $P_{90015} = (30, 61, 20, 1)$  lies on line  $\ell_5$   
 295 :  $P_{90222} = (45, 0, 21, 1)$  lies on line  $\ell_{11}$   
 296 :  $P_{90644} = (19, 7, 21, 1)$  lies on line  $\ell_{10}$   
 297 :  $P_{90790} = (37, 9, 21, 1)$  lies on line  $\ell_{14}$   
 298 :  $P_{90920} = (39, 11, 21, 1)$  lies on line  $\ell_9$   
 299 :  $P_{91099} = (26, 14, 21, 1)$  lies on line  $\ell_7$   
 300 :  $P_{91387} = (58, 18, 21, 1)$  lies on line  $\ell_0$   
 301 :  $P_{91708} = (59, 23, 21, 1)$  lies on line  $\ell_8$   
 302 :  $P_{91977} = (8, 28, 21, 1)$  lies on line  $\ell_{13}$   
 303 :  $P_{92132} = (35, 30, 21, 1)$  lies on line  $\ell_1$   
 304 :  $P_{92478} = (61, 35, 21, 1)$  lies on line  $\ell_2$   
 305 :  $P_{92755} = (18, 40, 21, 1)$  lies on line  $\ell_3$   
 306 :  $P_{93057} = (0, 45, 21, 1)$  lies on line  $\ell_{12}$   
 307 :  $P_{93782} = (21, 56, 21, 1)$  lies on line  $\ell_6$   
 308 :  $P_{93929} = (40, 58, 21, 1)$  lies on line  $\ell_4$   
 309 :  $P_{94111} = (30, 61, 21, 1)$  lies on line  $\ell_5$   
 310 :  $P_{94635} = (42, 5, 22, 1)$  lies on line  $\ell_9$   
 311 :  $P_{94879} = (30, 9, 22, 1)$  lies on line  $\ell_{10}$   
 312 :  $P_{94887} = (38, 9, 22, 1)$  lies on line  $\ell_8$   
 313 :  $P_{95201} = (32, 14, 22, 1)$  lies on line  $\ell_{11}$   
 314 :  $P_{95257} = (24, 15, 22, 1)$  lies on line  $\ell_{13}$   
 315 :  $P_{95304} = (7, 16, 22, 1)$  lies on line  $\ell_7$   
 316 :  $P_{95483} = (58, 18, 22, 1)$  lies on line  $\ell_0$   
 317 :  $P_{95990} = (53, 26, 22, 1)$  lies on line  $\ell_{14}$   
 318 :  $P_{96228} = (35, 30, 22, 1)$  lies on line  $\ell_1$   
 319 :  $P_{96574} = (61, 35, 22, 1)$  lies on line  $\ell_2$   
 320 :  $P_{96713} = (8, 38, 22, 1)$  lies on line  $\ell_6$   
 321 :  $P_{96851} = (18, 40, 22, 1)$  lies on line  $\ell_3$   
 322 :  $P_{98025} = (40, 58, 22, 1)$  lies on line  $\ell_4$   
 323 :  $P_{98207} = (30, 61, 22, 1)$  lies on line  $\ell_5$   
 324 :  $P_{98257} = (16, 62, 22, 1)$  lies on line  $\ell_{12}$   
 325 :  $P_{98606} = (45, 3, 23, 1)$  lies on line  $\ell_8$   
 326 :  $P_{99456} = (63, 16, 23, 1)$  lies on line  $\ell_{12}$   
 327 :  $P_{99579} = (58, 18, 23, 1)$  lies on line  $\ell_0$   
 328 :  $P_{100045} = (12, 26, 23, 1)$  lies on line  $\ell_7$   
 329 :  $P_{100324} = (35, 30, 23, 1)$  lies on line  $\ell_1$   
 330 :  $P_{100431} = (14, 32, 23, 1)$  lies on line  $\ell_9$   
 331 :  $P_{100536} = (55, 33, 23, 1)$  lies on line  $\ell_{13}$   
 332 :  $P_{100670} = (61, 35, 23, 1)$  lies on line  $\ell_2$   
 333 :  $P_{100947} = (18, 40, 23, 1)$  lies on line  $\ell_3$   
 334 :  $P_{101125} = (4, 43, 23, 1)$  lies on line  $\ell_{11}$   
 335 :  $P_{101188} = (3, 44, 23, 1)$  lies on line  $\ell_6$

336 :  $P_{101243} = (58, 44, 23, 1)$  lies on line  $\ell_{10}$   
 337 :  $P_{101723} = (26, 52, 23, 1)$  lies on line  $\ell_{14}$   
 338 :  $P_{102121} = (40, 58, 23, 1)$  lies on line  $\ell_4$   
 339 :  $P_{102303} = (30, 61, 23, 1)$  lies on line  $\ell_5$   
 340 :  $P_{102758} = (37, 4, 24, 1)$  lies on line  $\ell_8$   
 341 :  $P_{103148} = (43, 10, 24, 1)$  lies on line  $\ell_{14}$   
 342 :  $P_{103675} = (58, 18, 24, 1)$  lies on line  $\ell_0$   
 343 :  $P_{103928} = (55, 22, 24, 1)$  lies on line  $\ell_9$   
 344 :  $P_{104132} = (3, 26, 24, 1)$  lies on line  $\ell_{10}$   
 345 :  $P_{104325} = (4, 29, 24, 1)$  lies on line  $\ell_7$   
 346 :  $P_{104382} = (61, 29, 24, 1)$  lies on line  $\ell_{11}$   
 347 :  $P_{104420} = (35, 30, 24, 1)$  lies on line  $\ell_1$   
 348 :  $P_{104455} = (6, 31, 24, 1)$  lies on line  $\ell_{13}$   
 349 :  $P_{104766} = (61, 35, 24, 1)$  lies on line  $\ell_2$   
 350 :  $P_{105043} = (18, 40, 24, 1)$  lies on line  $\ell_3$   
 351 :  $P_{105228} = (11, 43, 24, 1)$  lies on line  $\ell_6$   
 352 :  $P_{105423} = (14, 46, 24, 1)$  lies on line  $\ell_{12}$   
 353 :  $P_{106217} = (40, 58, 24, 1)$  lies on line  $\ell_4$   
 354 :  $P_{106399} = (30, 61, 24, 1)$  lies on line  $\ell_5$   
 355 :  $P_{106594} = (33, 0, 25, 1)$  lies on line  $\ell_{12}$   
 356 :  $P_{107503} = (46, 14, 25, 1)$  lies on line  $\ell_8$   
 357 :  $P_{107771} = (58, 18, 25, 1)$  lies on line  $\ell_0$   
 358 :  $P_{108048} = (15, 23, 25, 1)$  lies on line  $\ell_7$   
 359 :  $P_{108516} = (35, 30, 25, 1)$  lies on line  $\ell_1$   
 360 :  $P_{108673} = (0, 33, 25, 1)$  lies on line  $\ell_6$   
 361 :  $P_{108862} = (61, 35, 25, 1)$  lies on line  $\ell_2$   
 362 :  $P_{108869} = (4, 36, 25, 1)$  lies on line  $\ell_{14}$   
 363 :  $P_{109139} = (18, 40, 25, 1)$  lies on line  $\ell_3$   
 364 :  $P_{109738} = (41, 49, 25, 1)$  lies on line  $\ell_{13}$   
 365 :  $P_{109844} = (19, 51, 25, 1)$  lies on line  $\ell_9$   
 366 :  $P_{110170} = (25, 56, 25, 1)$  lies on line  $\ell_{11}$   
 367 :  $P_{110313} = (40, 58, 25, 1)$  lies on line  $\ell_4$   
 368 :  $P_{110495} = (30, 61, 25, 1)$  lies on line  $\ell_5$   
 369 :  $P_{110632} = (39, 63, 25, 1)$  lies on line  $\ell_{10}$   
 370 :  $P_{111251} = (18, 9, 26, 1)$  lies on line  $\ell_7$   
 371 :  $P_{111732} = (51, 16, 26, 1)$  lies on line  $\ell_8$   
 372 :  $P_{111867} = (58, 18, 26, 1)$  lies on line  $\ell_0$   
 373 :  $P_{111922} = (49, 19, 26, 1)$  lies on line  $\ell_{12}$   
 374 :  $P_{112612} = (35, 30, 26, 1)$  lies on line  $\ell_1$   
 375 :  $P_{112890} = (57, 34, 26, 1)$  lies on line  $\ell_{13}$   
 376 :  $P_{112958} = (61, 35, 26, 1)$  lies on line  $\ell_2$   
 377 :  $P_{113235} = (18, 40, 26, 1)$  lies on line  $\ell_3$   
 378 :  $P_{113835} = (42, 49, 26, 1)$  lies on line  $\ell_{10}$   
 379 :  $P_{114133} = (20, 54, 26, 1)$  lies on line  $\ell_{11}$   
 380 :  $P_{114197} = (20, 55, 26, 1)$  lies on line  $\ell_{14}$   
 381 :  $P_{114409} = (40, 58, 26, 1)$  lies on line  $\ell_4$   
 382 :  $P_{114718} = (29, 63, 26, 1)$  lies on line  $\ell_6$   
 383 :  $P_{114970} = (25, 3, 27, 1)$  lies on line  $\ell_7$   
 384 :  $P_{115543} = (22, 12, 27, 1)$  lies on line  $\ell_{13}$   
 385 :  $P_{115963} = (58, 18, 27, 1)$  lies on line  $\ell_0$   
 386 :  $P_{116017} = (48, 19, 27, 1)$  lies on line  $\ell_{11}$   
 387 :  $P_{116047} = (14, 20, 27, 1)$  lies on line  $\ell_{10}$   
 388 :  $P_{116347} = (58, 24, 27, 1)$  lies on line  $\ell_9$   
 389 :  $P_{116412} = (59, 25, 27, 1)$  lies on line  $\ell_{14}$

390 :  $P_{116473} = (56, 26, 27, 1)$  lies on line  $\ell_8$   
 391 :  $P_{116708} = (35, 30, 27, 1)$  lies on line  $\ell_1$   
 392 :  $P_{117054} = (61, 35, 27, 1)$  lies on line  $\ell_2$   
 393 :  $P_{117331} = (18, 40, 27, 1)$  lies on line  $\ell_3$   
 394 :  $P_{118167} = (22, 53, 27, 1)$  lies on line  $\ell_6$   
 395 :  $P_{118505} = (40, 58, 27, 1)$  lies on line  $\ell_4$   
 396 :  $P_{119080} = (39, 3, 28, 1)$  lies on line  $\ell_6$   
 397 :  $P_{119130} = (25, 4, 28, 1)$  lies on line  $\ell_{13}$   
 398 :  $P_{119989} = (52, 17, 28, 1)$  lies on line  $\ell_{14}$   
 399 :  $P_{120059} = (58, 18, 28, 1)$  lies on line  $\ell_0$   
 400 :  $P_{120804} = (35, 30, 28, 1)$  lies on line  $\ell_1$   
 401 :  $P_{120965} = (4, 33, 28, 1)$  lies on line  $\ell_9$   
 402 :  $P_{121150} = (61, 35, 28, 1)$  lies on line  $\ell_2$   
 403 :  $P_{121427} = (18, 40, 28, 1)$  lies on line  $\ell_3$   
 404 :  $P_{121551} = (14, 42, 28, 1)$  lies on line  $\ell_{11}$   
 405 :  $P_{121674} = (9, 44, 28, 1)$  lies on line  $\ell_8$   
 406 :  $P_{121777} = (48, 45, 28, 1)$  lies on line  $\ell_{10}$   
 407 :  $P_{122258} = (17, 53, 28, 1)$  lies on line  $\ell_{12}$   
 408 :  $P_{122281} = (40, 53, 28, 1)$  lies on line  $\ell_7$   
 409 :  $P_{122601} = (40, 58, 28, 1)$  lies on line  $\ell_4$   
 410 :  $P_{122783} = (30, 61, 28, 1)$  lies on line  $\ell_5$   
 411 :  $P_{123233} = (32, 4, 29, 1)$  lies on line  $\ell_9$   
 412 :  $P_{123477} = (20, 8, 29, 1)$  lies on line  $\ell_{10}$   
 413 :  $P_{123565} = (44, 9, 29, 1)$  lies on line  $\ell_6$   
 414 :  $P_{123947} = (42, 15, 29, 1)$  lies on line  $\ell_{11}$   
 415 :  $P_{124155} = (58, 18, 29, 1)$  lies on line  $\ell_0$   
 416 :  $P_{124735} = (62, 27, 29, 1)$  lies on line  $\ell_{12}$   
 417 :  $P_{124900} = (35, 30, 29, 1)$  lies on line  $\ell_1$   
 418 :  $P_{125246} = (61, 35, 29, 1)$  lies on line  $\ell_2$   
 419 :  $P_{125379} = (2, 38, 29, 1)$  lies on line  $\ell_8$   
 420 :  $P_{125523} = (18, 40, 29, 1)$  lies on line  $\ell_3$   
 421 :  $P_{125687} = (54, 42, 29, 1)$  lies on line  $\ell_{13}$   
 422 :  $P_{126697} = (40, 58, 29, 1)$  lies on line  $\ell_4$   
 423 :  $P_{126879} = (30, 61, 29, 1)$  lies on line  $\ell_5$   
 424 :  $P_{127004} = (27, 63, 29, 1)$  lies on line  $\ell_{14}$   
 425 :  $P_{127012} = (35, 63, 29, 1)$  lies on line  $\ell_7$   
 426 :  $P_{127144} = (39, 1, 30, 1)$  lies on line  $\ell_{11}$   
 427 :  $P_{127450} = (25, 6, 30, 1)$  lies on line  $\ell_{10}$   
 428 :  $P_{127599} = (46, 8, 30, 1)$  lies on line  $\ell_{12}$   
 429 :  $P_{127726} = (45, 10, 30, 1)$  lies on line  $\ell_9$   
 430 :  $P_{128251} = (58, 18, 30, 1)$  lies on line  $\ell_0$   
 431 :  $P_{128562} = (49, 23, 30, 1)$  lies on line  $\ell_6$   
 432 :  $P_{128996} = (35, 30, 30, 1)$  lies on line  $\ell_1$   
 433 :  $P_{129215} = (62, 33, 30, 1)$  lies on line  $\ell_7$   
 434 :  $P_{129342} = (61, 35, 30, 1)$  lies on line  $\ell_2$   
 435 :  $P_{129619} = (18, 40, 30, 1)$  lies on line  $\ell_3$   
 436 :  $P_{129868} = (11, 44, 30, 1)$  lies on line  $\ell_{14}$   
 437 :  $P_{130656} = (31, 56, 30, 1)$  lies on line  $\ell_8$   
 438 :  $P_{130727} = (38, 57, 30, 1)$  lies on line  $\ell_{13}$   
 439 :  $P_{130793} = (40, 58, 30, 1)$  lies on line  $\ell_4$   
 440 :  $P_{130975} = (30, 61, 30, 1)$  lies on line  $\ell_5$   
 441 :  $P_{131301} = (36, 2, 31, 1)$  lies on line  $\ell_{14}$   
 442 :  $P_{132347} = (58, 18, 31, 1)$  lies on line  $\ell_0$   
 443 :  $P_{132618} = (9, 23, 31, 1)$  lies on line  $\ell_{13}$

444 :  $P_{133051} = (58, 29, 31, 1)$  lies on line  $\ell_6$   
 445 :  $P_{133092} = (35, 30, 31, 1)$  lies on line  $\ell_1$   
 446 :  $P_{133444} = (3, 36, 31, 1)$  lies on line  $\ell_{11}$   
 447 :  $P_{133570} = (1, 38, 31, 1)$  lies on line  $\ell_{12}$   
 448 :  $P_{133715} = (18, 40, 31, 1)$  lies on line  $\ell_3$   
 449 :  $P_{133942} = (53, 43, 31, 1)$  lies on line  $\ell_7$   
 450 :  $P_{134154} = (9, 47, 31, 1)$  lies on line  $\ell_9$   
 451 :  $P_{134357} = (20, 50, 31, 1)$  lies on line  $\ell_8$   
 452 :  $P_{134889} = (40, 58, 31, 1)$  lies on line  $\ell_4$   
 453 :  $P_{135071} = (30, 61, 31, 1)$  lies on line  $\ell_5$   
 454 :  $P_{136216} = (23, 15, 32, 1)$  lies on line  $\ell_{12}$   
 455 :  $P_{136443} = (58, 18, 32, 1)$  lies on line  $\ell_0$   
 456 :  $P_{137188} = (35, 30, 32, 1)$  lies on line  $\ell_1$   
 457 :  $P_{137224} = (7, 31, 32, 1)$  lies on line  $\ell_6$   
 458 :  $P_{137534} = (61, 35, 32, 1)$  lies on line  $\ell_2$   
 459 :  $P_{137811} = (18, 40, 32, 1)$  lies on line  $\ell_3$   
 460 :  $P_{137865} = (8, 41, 32, 1)$  lies on line  $\ell_7$   
 461 :  $P_{138035} = (50, 43, 32, 1)$  lies on line  $\ell_{14}$   
 462 :  $P_{138345} = (40, 48, 32, 1)$  lies on line  $\ell_{11}$   
 463 :  $P_{138346} = (41, 48, 32, 1)$  lies on line  $\ell_8$   
 464 :  $P_{138775} = (22, 55, 32, 1)$  lies on line  $\ell_{10}$   
 465 :  $P_{138985} = (40, 58, 32, 1)$  lies on line  $\ell_4$   
 466 :  $P_{139043} = (34, 59, 32, 1)$  lies on line  $\ell_9$   
 467 :  $P_{139167} = (30, 61, 32, 1)$  lies on line  $\ell_5$   
 468 :  $P_{139232} = (31, 62, 32, 1)$  lies on line  $\ell_{13}$   
 469 :  $P_{139678} = (29, 5, 33, 1)$  lies on line  $\ell_{14}$   
 470 :  $P_{140401} = (48, 16, 33, 1)$  lies on line  $\ell_{13}$   
 471 :  $P_{140531} = (50, 18, 33, 1)$  lies on line  $\ell_{10}$   
 472 :  $P_{140539} = (58, 18, 33, 1)$  lies on line  $\ell_0$   
 473 :  $P_{141255} = (6, 30, 33, 1)$  lies on line  $\ell_9$   
 474 :  $P_{141284} = (35, 30, 33, 1)$  lies on line  $\ell_1$   
 475 :  $P_{141497} = (56, 33, 33, 1)$  lies on line  $\ell_{12}$   
 476 :  $P_{141572} = (3, 35, 33, 1)$  lies on line  $\ell_7$   
 477 :  $P_{141630} = (61, 35, 33, 1)$  lies on line  $\ell_2$   
 478 :  $P_{141907} = (18, 40, 33, 1)$  lies on line  $\ell_3$   
 479 :  $P_{143075} = (34, 58, 33, 1)$  lies on line  $\ell_8$   
 480 :  $P_{143081} = (40, 58, 33, 1)$  lies on line  $\ell_4$   
 481 :  $P_{143263} = (30, 61, 33, 1)$  lies on line  $\ell_5$   
 482 :  $P_{143649} = (32, 3, 34, 1)$  lies on line  $\ell_{13}$   
 483 :  $P_{144146} = (17, 11, 34, 1)$  lies on line  $\ell_6$   
 484 :  $P_{144460} = (11, 16, 34, 1)$  lies on line  $\ell_9$   
 485 :  $P_{144635} = (58, 18, 34, 1)$  lies on line  $\ell_0$   
 486 :  $P_{144846} = (13, 22, 34, 1)$  lies on line  $\ell_{14}$   
 487 :  $P_{145154} = (1, 27, 34, 1)$  lies on line  $\ell_{11}$   
 488 :  $P_{145280} = (63, 28, 34, 1)$  lies on line  $\ell_{10}$   
 489 :  $P_{145380} = (35, 30, 34, 1)$  lies on line  $\ell_1$   
 490 :  $P_{145726} = (61, 35, 34, 1)$  lies on line  $\ell_2$   
 491 :  $P_{145792} = (63, 36, 34, 1)$  lies on line  $\ell_8$   
 492 :  $P_{146003} = (18, 40, 34, 1)$  lies on line  $\ell_3$   
 493 :  $P_{146665} = (40, 50, 34, 1)$  lies on line  $\ell_{12}$   
 494 :  $P_{147177} = (40, 58, 34, 1)$  lies on line  $\ell_4$   
 495 :  $P_{147611} = (26, 1, 35, 1)$  lies on line  $\ell_6$   
 496 :  $P_{148731} = (58, 18, 35, 1)$  lies on line  $\ell_0$   
 497 :  $P_{149320} = (7, 28, 35, 1)$  lies on line  $\ell_{12}$

498 :  $P_{149476} = (35, 30, 35, 1)$  lies on line  $\ell_1$   
 499 :  $P_{149822} = (61, 35, 35, 1)$  lies on line  $\ell_2$   
 500 :  $P_{150099} = (18, 40, 35, 1)$  lies on line  $\ell_3$   
 501 :  $P_{150416} = (15, 45, 35, 1)$  lies on line  $\ell_{13}$   
 502 :  $P_{150517} = (52, 46, 35, 1)$  lies on line  $\ell_8$   
 503 :  $P_{150960} = (47, 53, 35, 1)$  lies on line  $\ell_9$   
 504 :  $P_{151062} = (21, 55, 35, 1)$  lies on line  $\ell_7$   
 505 :  $P_{151139} = (34, 56, 35, 1)$  lies on line  $\ell_{14}$   
 506 :  $P_{151196} = (27, 57, 35, 1)$  lies on line  $\ell_{10}$   
 507 :  $P_{151273} = (40, 58, 35, 1)$  lies on line  $\ell_4$   
 508 :  $P_{151455} = (30, 61, 35, 1)$  lies on line  $\ell_5$   
 509 :  $P_{151526} = (37, 62, 35, 1)$  lies on line  $\ell_{11}$   
 510 :  $P_{151654} = (37, 0, 36, 1)$  lies on line  $\ell_{10}$   
 511 :  $P_{151717} = (36, 1, 36, 1)$  lies on line  $\ell_7$   
 512 :  $P_{152092} = (27, 7, 36, 1)$  lies on line  $\ell_{11}$   
 513 :  $P_{152402} = (17, 12, 36, 1)$  lies on line  $\ell_9$   
 514 :  $P_{152827} = (58, 18, 36, 1)$  lies on line  $\ell_0$   
 515 :  $P_{152905} = (8, 20, 36, 1)$  lies on line  $\ell_{12}$   
 516 :  $P_{153158} = (5, 24, 36, 1)$  lies on line  $\ell_8$   
 517 :  $P_{153572} = (35, 30, 36, 1)$  lies on line  $\ell_1$   
 518 :  $P_{153918} = (61, 35, 36, 1)$  lies on line  $\ell_2$   
 519 :  $P_{153985} = (0, 37, 36, 1)$  lies on line  $\ell_{13}$   
 520 :  $P_{154195} = (18, 40, 36, 1)$  lies on line  $\ell_3$   
 521 :  $P_{154734} = (45, 48, 36, 1)$  lies on line  $\ell_{14}$   
 522 :  $P_{155180} = (43, 55, 36, 1)$  lies on line  $\ell_6$   
 523 :  $P_{155369} = (40, 58, 36, 1)$  lies on line  $\ell_4$   
 524 :  $P_{155551} = (30, 61, 36, 1)$  lies on line  $\ell_5$   
 525 :  $P_{156879} = (14, 18, 37, 1)$  lies on line  $\ell_8$   
 526 :  $P_{156923} = (58, 18, 37, 1)$  lies on line  $\ell_0$   
 527 :  $P_{157635} = (2, 30, 37, 1)$  lies on line  $\ell_{14}$   
 528 :  $P_{157668} = (35, 30, 37, 1)$  lies on line  $\ell_1$   
 529 :  $P_{157952} = (63, 34, 37, 1)$  lies on line  $\ell_{11}$   
 530 :  $P_{158014} = (61, 35, 37, 1)$  lies on line  $\ell_2$   
 531 :  $P_{158082} = (1, 37, 37, 1)$  lies on line  $\ell_{10}$   
 532 :  $P_{158291} = (18, 40, 37, 1)$  lies on line  $\ell_3$   
 533 :  $P_{158390} = (53, 41, 37, 1)$  lies on line  $\ell_9$   
 534 :  $P_{159464} = (39, 58, 37, 1)$  lies on line  $\ell_{12}$   
 535 :  $P_{159465} = (40, 58, 37, 1)$  lies on line  $\ell_4$   
 536 :  $P_{159647} = (30, 61, 37, 1)$  lies on line  $\ell_5$   
 537 :  $P_{159649} = (32, 61, 37, 1)$  lies on line  $\ell_6$   
 538 :  $P_{160596} = (19, 12, 38, 1)$  lies on line  $\ell_8$   
 539 :  $P_{160659} = (18, 13, 38, 1)$  lies on line  $\ell_{14}$   
 540 :  $P_{161019} = (58, 18, 38, 1)$  lies on line  $\ell_0$   
 541 :  $P_{161203} = (50, 21, 38, 1)$  lies on line  $\ell_7$   
 542 :  $P_{161408} = (63, 24, 38, 1)$  lies on line  $\ell_{13}$   
 543 :  $P_{161764} = (35, 30, 38, 1)$  lies on line  $\ell_1$   
 544 :  $P_{162361} = (56, 39, 38, 1)$  lies on line  $\ell_9$   
 545 :  $P_{162387} = (18, 40, 38, 1)$  lies on line  $\ell_3$   
 546 :  $P_{162488} = (55, 41, 38, 1)$  lies on line  $\ell_{12}$   
 547 :  $P_{162573} = (12, 43, 38, 1)$  lies on line  $\ell_{10}$   
 548 :  $P_{162675} = (50, 44, 38, 1)$  lies on line  $\ell_{11}$   
 549 :  $P_{163561} = (40, 58, 38, 1)$  lies on line  $\ell_4$   
 550 :  $P_{163743} = (30, 61, 38, 1)$  lies on line  $\ell_5$   
 551 :  $P_{164061} = (28, 2, 39, 1)$  lies on line  $\ell_9$   
 552 :  $P_{164313} = (24, 6, 39, 1)$  lies on line  $\ell_8$   
 553 :  $P_{164377} = (24, 7, 39, 1)$  lies on line  $\ell_{12}$   
 554 :  $P_{164503} = (22, 9, 39, 1)$  lies on line  $\ell_{11}$   
 555 :  $P_{164841} = (40, 14, 39, 1)$  lies on line  $\ell_{10}$   
 556 :  $P_{165115} = (58, 18, 39, 1)$  lies on line  $\ell_0$   
 557 :  $P_{165860} = (35, 30, 39, 1)$  lies on line  $\ell_1$   
 558 :  $P_{165946} = (57, 31, 39, 1)$  lies on line  $\ell_7$   
 559 :  $P_{166483} = (18, 40, 39, 1)$  lies on line  $\ell_3$   
 560 :  $P_{166583} = (54, 41, 39, 1)$  lies on line  $\ell_6$   
 561 :  $P_{167377} = (16, 54, 39, 1)$  lies on line  $\ell_{13}$   
 562 :  $P_{167657} = (40, 58, 39, 1)$  lies on line  $\ell_4$   
 563 :  $P_{167839} = (30, 61, 39, 1)$  lies on line  $\ell_5$   
 564 :  $P_{168081} = (16, 1, 40, 1)$  lies on line  $\ell_8$   
 565 :  $P_{168546} = (33, 8, 40, 1)$  lies on line  $\ell_{13}$   
 566 :  $P_{169211} = (58, 18, 40, 1)$  lies on line  $\ell_0$   
 567 :  $P_{169586} = (49, 24, 40, 1)$  lies on line  $\ell_7$   
 568 :  $P_{169869} = (12, 29, 40, 1)$  lies on line  $\ell_{14}$   
 569 :  $P_{169956} = (35, 30, 40, 1)$  lies on line  $\ell_1$   
 570 :  $P_{170302} = (61, 35, 40, 1)$  lies on line  $\ell_2$   
 571 :  $P_{170579} = (18, 40, 40, 1)$  lies on line  $\ell_3$   
 572 :  $P_{171007} = (62, 46, 40, 1)$  lies on line  $\ell_6$   
 573 :  $P_{171366} = (37, 52, 40, 1)$  lies on line  $\ell_9$   
 574 :  $P_{171602} = (17, 56, 40, 1)$  lies on line  $\ell_{10}$   
 575 :  $P_{171690} = (41, 57, 40, 1)$  lies on line  $\ell_{12}$   
 576 :  $P_{171753} = (40, 58, 40, 1)$  lies on line  $\ell_4$   
 577 :  $P_{171935} = (30, 61, 40, 1)$  lies on line  $\ell_5$   
 578 :  $P_{172080} = (47, 63, 40, 1)$  lies on line  $\ell_{11}$   
 579 :  $P_{172828} = (27, 11, 41, 1)$  lies on line  $\ell_8$   
 580 :  $P_{173186} = (1, 17, 41, 1)$  lies on line  $\ell_9$   
 581 :  $P_{173575} = (6, 23, 41, 1)$  lies on line  $\ell_{12}$   
 582 :  $P_{173772} = (11, 26, 41, 1)$  lies on line  $\ell_{11}$   
 583 :  $P_{174006} = (53, 29, 41, 1)$  lies on line  $\ell_{10}$   
 584 :  $P_{174052} = (35, 30, 41, 1)$  lies on line  $\ell_1$   
 585 :  $P_{174398} = (61, 35, 41, 1)$  lies on line  $\ell_2$   
 586 :  $P_{174454} = (53, 36, 41, 1)$  lies on line  $\ell_6$   
 587 :  $P_{174543} = (14, 38, 41, 1)$  lies on line  $\ell_{13}$   
 588 :  $P_{174675} = (18, 40, 41, 1)$  lies on line  $\ell_3$   
 589 :  $P_{175396} = (35, 51, 41, 1)$  lies on line  $\ell_{14}$   
 590 :  $P_{175849} = (40, 58, 41, 1)$  lies on line  $\ell_4$   
 591 :  $P_{176031} = (30, 61, 41, 1)$  lies on line  $\ell_5$   
 592 :  $P_{176471} = (22, 4, 42, 1)$  lies on line  $\ell_{12}$   
 593 :  $P_{177000} = (39, 12, 42, 1)$  lies on line  $\ell_7$   
 594 :  $P_{177403} = (58, 18, 42, 1)$  lies on line  $\ell_0$   
 595 :  $P_{177465} = (56, 19, 42, 1)$  lies on line  $\ell_{10}$   
 596 :  $P_{177479} = (6, 20, 42, 1)$  lies on line  $\ell_{11}$   
 597 :  $P_{177543} = (6, 21, 42, 1)$  lies on line  $\ell_8$   
 598 :  $P_{178148} = (35, 30, 42, 1)$  lies on line  $\ell_1$   
 599 :  $P_{178189} = (12, 31, 42, 1)$  lies on line  $\ell_9$   
 600 :  $P_{178292} = (51, 32, 42, 1)$  lies on line  $\ell_{14}$   
 601 :  $P_{178494} = (61, 35, 42, 1)$  lies on line  $\ell_2$   
 602 :  $P_{178771} = (18, 40, 42, 1)$  lies on line  $\ell_3$   
 603 :  $P_{179615} = (30, 53, 42, 1)$  lies on line  $\ell_{13}$   
 604 :  $P_{180127} = (30, 61, 42, 1)$  lies on line  $\ell_5$   
 605 :  $P_{180717} = (44, 6, 43, 1)$  lies on line  $\ell_7$



606 :  $P_{181213} = (28, 14, 43, 1)$  lies on line  $\ell_{14}$   
 607 :  $P_{181499} = (58, 18, 43, 1)$  lies on line  $\ell_0$   
 608 :  $P_{182066} = (49, 27, 43, 1)$  lies on line  $\ell_{13}$   
 609 :  $P_{182244} = (35, 30, 43, 1)$  lies on line  $\ell_1$   
 610 :  $P_{182286} = (13, 31, 43, 1)$  lies on line  $\ell_8$   
 611 :  $P_{182590} = (61, 35, 43, 1)$  lies on line  $\ell_2$   
 612 :  $P_{182867} = (18, 40, 43, 1)$  lies on line  $\ell_3$   
 613 :  $P_{183034} = (57, 42, 43, 1)$  lies on line  $\ell_{12}$   
 614 :  $P_{183396} = (35, 48, 43, 1)$  lies on line  $\ell_6$   
 615 :  $P_{183459} = (34, 49, 43, 1)$  lies on line  $\ell_{11}$   
 616 :  $P_{183773} = (28, 54, 43, 1)$  lies on line  $\ell_{10}$   
 617 :  $P_{184223} = (30, 61, 43, 1)$  lies on line  $\ell_5$   
 618 :  $P_{184599} = (22, 3, 44, 1)$  lies on line  $\ell_9$   
 619 :  $P_{184787} = (18, 6, 44, 1)$  lies on line  $\ell_6$   
 620 :  $P_{184788} = (19, 6, 44, 1)$  lies on line  $\ell_{14}$   
 621 :  $P_{184925} = (28, 8, 44, 1)$  lies on line  $\ell_{11}$   
 622 :  $P_{185379} = (34, 15, 44, 1)$  lies on line  $\ell_{10}$   
 623 :  $P_{185595} = (58, 18, 44, 1)$  lies on line  $\ell_0$   
 624 :  $P_{185663} = (62, 19, 44, 1)$  lies on line  $\ell_{13}$   
 625 :  $P_{186340} = (35, 30, 44, 1)$  lies on line  $\ell_1$   
 626 :  $P_{186615} = (54, 34, 44, 1)$  lies on line  $\ell_{12}$   
 627 :  $P_{186686} = (61, 35, 44, 1)$  lies on line  $\ell_2$   
 628 :  $P_{186963} = (18, 40, 44, 1)$  lies on line  $\ell_3$   
 629 :  $P_{187069} = (60, 41, 44, 1)$  lies on line  $\ell_8$   
 630 :  $P_{187486} = (29, 48, 44, 1)$  lies on line  $\ell_7$   
 631 :  $P_{188137} = (40, 58, 44, 1)$  lies on line  $\ell_4$   
 632 :  $P_{188319} = (30, 61, 44, 1)$  lies on line  $\ell_5$   
 633 :  $P_{189691} = (58, 18, 45, 1)$  lies on line  $\ell_0$   
 634 :  $P_{190436} = (35, 30, 45, 1)$  lies on line  $\ell_1$   
 635 :  $P_{190776} = (55, 35, 45, 1)$  lies on line  $\ell_8$   
 636 :  $P_{190782} = (61, 35, 45, 1)$  lies on line  $\ell_2$   
 637 :  $P_{190963} = (50, 38, 45, 1)$  lies on line  $\ell_9$   
 638 :  $P_{191059} = (18, 40, 45, 1)$  lies on line  $\ell_3$   
 639 :  $P_{191101} = (60, 40, 45, 1)$  lies on line  $\ell_{14}$   
 640 :  $P_{191175} = (6, 42, 45, 1)$  lies on line  $\ell_{10}$   
 641 :  $P_{191417} = (56, 45, 45, 1)$  lies on line  $\ell_{11}$   
 642 :  $P_{192215} = (22, 58, 45, 1)$  lies on line  $\ell_7$   
 643 :  $P_{192233} = (40, 58, 45, 1)$  lies on line  $\ell_4$   
 644 :  $P_{192402} = (17, 61, 45, 1)$  lies on line  $\ell_{13}$   
 645 :  $P_{192415} = (30, 61, 45, 1)$  lies on line  $\ell_5$   
 646 :  $P_{193733} = (4, 18, 46, 1)$  lies on line  $\ell_6$   
 647 :  $P_{193787} = (58, 18, 46, 1)$  lies on line  $\ell_0$   
 648 :  $P_{194532} = (35, 30, 46, 1)$  lies on line  $\ell_1$   
 649 :  $P_{194570} = (9, 31, 46, 1)$  lies on line  $\ell_{12}$   
 650 :  $P_{194870} = (53, 35, 46, 1)$  lies on line  $\ell_{11}$   
 651 :  $P_{194878} = (61, 35, 46, 1)$  lies on line  $\ell_2$   
 652 :  $P_{195155} = (18, 40, 46, 1)$  lies on line  $\ell_3$   
 653 :  $P_{195200} = (63, 40, 46, 1)$  lies on line  $\ell_9$   
 654 :  $P_{195522} = (1, 46, 46, 1)$  lies on line  $\ell_{13}$   
 655 :  $P_{196329} = (40, 58, 46, 1)$  lies on line  $\ell_4$   
 656 :  $P_{196397} = (44, 59, 46, 1)$  lies on line  $\ell_{14}$   
 657 :  $P_{196511} = (30, 61, 46, 1)$  lies on line  $\ell_5$   
 658 :  $P_{196523} = (42, 61, 46, 1)$  lies on line  $\ell_8$   
 659 :  $P_{196719} = (46, 0, 47, 1)$  lies on line  $\ell_{13}$

660 :  $P_{196784} = (47, 1, 47, 1)$  lies on line  $\ell_{10}$   
 661 :  $P_{197074} = (17, 6, 47, 1)$  lies on line  $\ell_{11}$   
 662 :  $P_{197532} = (27, 13, 47, 1)$  lies on line  $\ell_9$   
 663 :  $P_{197883} = (58, 18, 47, 1)$  lies on line  $\ell_0$   
 664 :  $P_{198020} = (3, 21, 47, 1)$  lies on line  $\ell_{14}$   
 665 :  $P_{198224} = (15, 24, 47, 1)$  lies on line  $\ell_6$   
 666 :  $P_{198628} = (35, 30, 47, 1)$  lies on line  $\ell_1$   
 667 :  $P_{198974} = (61, 35, 47, 1)$  lies on line  $\ell_2$   
 668 :  $P_{199251} = (18, 40, 47, 1)$  lies on line  $\ell_3$   
 669 :  $P_{199617} = (0, 46, 47, 1)$  lies on line  $\ell_7$   
 670 :  $P_{199847} = (38, 49, 47, 1)$  lies on line  $\ell_{12}$   
 671 :  $P_{200226} = (33, 55, 47, 1)$  lies on line  $\ell_8$   
 672 :  $P_{200425} = (40, 58, 47, 1)$  lies on line  $\ell_4$   
 673 :  $P_{200607} = (30, 61, 47, 1)$  lies on line  $\ell_5$   
 674 :  $P_{200907} = (10, 2, 48, 1)$  lies on line  $\ell_{12}$   
 675 :  $P_{201979} = (58, 18, 48, 1)$  lies on line  $\ell_0$   
 676 :  $P_{202581} = (20, 28, 48, 1)$  lies on line  $\ell_6$   
 677 :  $P_{202724} = (35, 30, 48, 1)$  lies on line  $\ell_1$   
 678 :  $P_{203070} = (61, 35, 48, 1)$  lies on line  $\ell_2$   
 679 :  $P_{203181} = (44, 37, 48, 1)$  lies on line  $\ell_9$   
 680 :  $P_{203248} = (47, 38, 48, 1)$  lies on line  $\ell_{14}$   
 681 :  $P_{203347} = (18, 40, 48, 1)$  lies on line  $\ell_3$   
 682 :  $P_{203417} = (24, 41, 48, 1)$  lies on line  $\ell_{10}$   
 683 :  $P_{203484} = (27, 42, 48, 1)$  lies on line  $\ell_7$   
 684 :  $P_{203751} = (38, 46, 48, 1)$  lies on line  $\ell_{11}$   
 685 :  $P_{204035} = (2, 51, 48, 1)$  lies on line  $\ell_{13}$   
 686 :  $P_{204091} = (58, 51, 48, 1)$  lies on line  $\ell_8$   
 687 :  $P_{204521} = (40, 58, 48, 1)$  lies on line  $\ell_4$   
 688 :  $P_{204703} = (30, 61, 48, 1)$  lies on line  $\ell_5$   
 689 :  $P_{204873} = (8, 0, 49, 1)$  lies on line  $\ell_9$   
 690 :  $P_{205377} = (0, 8, 49, 1)$  lies on line  $\ell_{14}$   
 691 :  $P_{205571} = (2, 11, 49, 1)$  lies on line  $\ell_{11}$   
 692 :  $P_{205693} = (60, 12, 49, 1)$  lies on line  $\ell_{10}$   
 693 :  $P_{206075} = (58, 18, 49, 1)$  lies on line  $\ell_0$   
 694 :  $P_{206304} = (31, 22, 49, 1)$  lies on line  $\ell_6$   
 695 :  $P_{206766} = (45, 29, 49, 1)$  lies on line  $\ell_{13}$   
 696 :  $P_{206820} = (35, 30, 49, 1)$  lies on line  $\ell_1$   
 697 :  $P_{206929} = (16, 32, 49, 1)$  lies on line  $\ell_7$   
 698 :  $P_{207166} = (61, 35, 49, 1)$  lies on line  $\ell_2$   
 699 :  $P_{207443} = (18, 40, 49, 1)$  lies on line  $\ell_3$   
 700 :  $P_{207718} = (37, 44, 49, 1)$  lies on line  $\ell_{12}$   
 701 :  $P_{208562} = (49, 57, 49, 1)$  lies on line  $\ell_8$   
 702 :  $P_{208617} = (40, 58, 49, 1)$  lies on line  $\ell_4$   
 703 :  $P_{208799} = (30, 61, 49, 1)$  lies on line  $\ell_5$   
 704 :  $P_{209138} = (49, 2, 50, 1)$  lies on line  $\ell_{10}$   
 705 :  $P_{209296} = (15, 5, 50, 1)$  lies on line  $\ell_{11}$   
 706 :  $P_{209475} = (2, 8, 50, 1)$  lies on line  $\ell_6$   
 707 :  $P_{209862} = (5, 14, 50, 1)$  lies on line  $\ell_9$   
 708 :  $P_{209918} = (61, 14, 50, 1)$  lies on line  $\ell_{13}$   
 709 :  $P_{210171} = (58, 18, 50, 1)$  lies on line  $\ell_0$   
 710 :  $P_{210705} = (16, 27, 50, 1)$  lies on line  $\ell_{14}$   
 711 :  $P_{210916} = (35, 30, 50, 1)$  lies on line  $\ell_1$   
 712 :  $P_{211262} = (61, 35, 50, 1)$  lies on line  $\ell_2$   
 713 :  $P_{211501} = (44, 39, 50, 1)$  lies on line  $\ell_8$

714 : $P_{211539} = (18, 40, 50, 1)$ lies on line $\ell_3$	768 : $P_{227439} = (46, 32, 54, 1)$ lies on line $\ell_6$
715 : $P_{212713} = (40, 58, 50, 1)$ lies on line $\ell_4$	769 : $P_{227646} = (61, 35, 54, 1)$ lies on line $\ell_2$
716 : $P_{212895} = (30, 61, 50, 1)$ lies on line $\ell_5$	770 : $P_{227691} = (42, 36, 54, 1)$ lies on line $\ell_{12}$
717 : $P_{212942} = (13, 62, 50, 1)$ lies on line $\ell_7$	771 : $P_{227923} = (18, 40, 54, 1)$ lies on line $\ell_3$
718 : $P_{213046} = (53, 63, 50, 1)$ lies on line $\ell_{12}$	772 : $P_{228605} = (60, 50, 54, 1)$ lies on line $\ell_{11}$
719 : $P_{213194} = (9, 2, 51, 1)$ lies on line $\ell_6$	773 : $P_{228739} = (2, 53, 54, 1)$ lies on line $\ell_{10}$
720 : $P_{214171} = (26, 17, 51, 1)$ lies on line $\ell_{12}$	774 : $P_{229047} = (54, 57, 54, 1)$ lies on line $\ell_9$
721 : $P_{214267} = (58, 18, 51, 1)$ lies on line $\ell_0$	775 : $P_{229097} = (40, 58, 54, 1)$ lies on line $\ell_4$
722 : $P_{215012} = (35, 30, 51, 1)$ lies on line $\ell_1$	776 : $P_{229279} = (30, 61, 54, 1)$ lies on line $\ell_5$
723 : $P_{215123} = (18, 32, 51, 1)$ lies on line $\ell_{13}$	777 : $P_{229772} = (11, 5, 55, 1)$ lies on line $\ell_8$
724 : $P_{215148} = (43, 32, 51, 1)$ lies on line $\ell_{11}$	778 : $P_{230086} = (5, 10, 55, 1)$ lies on line $\ell_{12}$
725 : $P_{215358} = (61, 35, 51, 1)$ lies on line $\ell_2$	779 : $P_{230503} = (38, 16, 55, 1)$ lies on line $\ell_{10}$
726 : $P_{215574} = (21, 39, 51, 1)$ lies on line $\ell_{10}$	780 : $P_{230651} = (58, 18, 55, 1)$ lies on line $\ell_0$
727 : $P_{215635} = (18, 40, 51, 1)$ lies on line $\ell_3$	781 : $P_{230937} = (24, 23, 55, 1)$ lies on line $\ell_{11}$
728 : $P_{215842} = (33, 43, 51, 1)$ lies on line $\ell_9$	782 : $P_{231251} = (18, 28, 55, 1)$ lies on line $\ell_9$
729 : $P_{215976} = (39, 45, 51, 1)$ lies on line $\ell_8$	783 : $P_{231275} = (42, 28, 55, 1)$ lies on line $\ell_7$
730 : $P_{216391} = (6, 52, 51, 1)$ lies on line $\ell_7$	784 : $P_{231396} = (35, 30, 55, 1)$ lies on line $\ell_1$
731 : $P_{216512} = (63, 53, 51, 1)$ lies on line $\ell_{14}$	785 : $P_{231742} = (61, 35, 55, 1)$ lies on line $\ell_2$
732 : $P_{216809} = (40, 58, 51, 1)$ lies on line $\ell_4$	786 : $P_{232019} = (18, 40, 55, 1)$ lies on line $\ell_3$
733 : $P_{216991} = (30, 61, 51, 1)$ lies on line $\ell_5$	787 : $P_{232166} = (37, 42, 55, 1)$ lies on line $\ell_6$
734 : $P_{217336} = (55, 2, 52, 1)$ lies on line $\ell_7$	788 : $P_{232417} = (32, 46, 55, 1)$ lies on line $\ell_{14}$
735 : $P_{218336} = (31, 18, 52, 1)$ lies on line $\ell_9$	789 : $P_{233193} = (40, 58, 55, 1)$ lies on line $\ell_4$
736 : $P_{218363} = (58, 18, 52, 1)$ lies on line $\ell_0$	790 : $P_{233230} = (13, 59, 55, 1)$ lies on line $\ell_{13}$
737 : $P_{218903} = (22, 27, 52, 1)$ lies on line $\ell_8$	791 : $P_{233375} = (30, 61, 55, 1)$ lies on line $\ell_5$
738 : $P_{219108} = (35, 30, 52, 1)$ lies on line $\ell_1$	792 : $P_{233668} = (3, 2, 56, 1)$ lies on line $\ell_8$
739 : $P_{219116} = (43, 30, 52, 1)$ lies on line $\ell_{10}$	793 : $P_{233917} = (60, 5, 56, 1)$ lies on line $\ell_{13}$
740 : $P_{219454} = (61, 35, 52, 1)$ lies on line $\ell_2$	794 : $P_{234578} = (17, 16, 56, 1)$ lies on line $\ell_{14}$
741 : $P_{219731} = (18, 40, 52, 1)$ lies on line $\ell_3$	795 : $P_{234747} = (58, 18, 56, 1)$ lies on line $\ell_0$
742 : $P_{219742} = (29, 40, 52, 1)$ lies on line $\ell_{13}$	796 : $P_{235299} = (34, 27, 56, 1)$ lies on line $\ell_7$
743 : $P_{220537} = (56, 52, 52, 1)$ lies on line $\ell_6$	797 : $P_{235492} = (35, 30, 56, 1)$ lies on line $\ell_1$
744 : $P_{220905} = (40, 58, 52, 1)$ lies on line $\ell_4$	798 : $P_{235682} = (33, 33, 56, 1)$ lies on line $\ell_{11}$
745 : $P_{221087} = (30, 61, 52, 1)$ lies on line $\ell_5$	799 : $P_{235838} = (61, 35, 56, 1)$ lies on line $\ell_2$
746 : $P_{221105} = (48, 61, 52, 1)$ lies on line $\ell_{14}$	800 : $P_{236000} = (31, 38, 56, 1)$ lies on line $\ell_{10}$
747 : $P_{221683} = (50, 6, 53, 1)$ lies on line $\ell_{13}$	801 : $P_{236115} = (18, 40, 56, 1)$ lies on line $\ell_3$
748 : $P_{221821} = (60, 8, 53, 1)$ lies on line $\ell_7$	802 : $P_{236268} = (43, 42, 56, 1)$ lies on line $\ell_9$
749 : $P_{222366} = (29, 17, 53, 1)$ lies on line $\ell_8$	803 : $P_{236462} = (45, 45, 56, 1)$ lies on line $\ell_6$
750 : $P_{222459} = (58, 18, 53, 1)$ lies on line $\ell_0$	804 : $P_{236917} = (52, 52, 56, 1)$ lies on line $\ell_{12}$
751 : $P_{222496} = (31, 19, 53, 1)$ lies on line $\ell_{14}$	805 : $P_{237289} = (40, 58, 56, 1)$ lies on line $\ell_4$
752 : $P_{223204} = (35, 30, 53, 1)$ lies on line $\ell_1$	806 : $P_{237471} = (30, 61, 56, 1)$ lies on line $\ell_5$
753 : $P_{223550} = (61, 35, 53, 1)$ lies on line $\ell_2$	807 : $P_{237884} = (59, 3, 57, 1)$ lies on line $\ell_{10}$
754 : $P_{223827} = (18, 40, 53, 1)$ lies on line $\ell_3$	808 : $P_{237894} = (5, 4, 57, 1)$ lies on line $\ell_{11}$
755 : $P_{224827} = (58, 55, 53, 1)$ lies on line $\ell_{12}$	809 : $P_{238153} = (8, 8, 57, 1)$ lies on line $\ell_8$
756 : $P_{224828} = (59, 55, 53, 1)$ lies on line $\ell_9$	810 : $P_{238608} = (15, 15, 57, 1)$ lies on line $\ell_9$
757 : $P_{225001} = (40, 58, 53, 1)$ lies on line $\ell_4$	811 : $P_{238762} = (41, 17, 57, 1)$ lies on line $\ell_7$
758 : $P_{225040} = (15, 59, 53, 1)$ lies on line $\ell_{10}$	812 : $P_{238843} = (58, 18, 57, 1)$ lies on line $\ell_0$
759 : $P_{225138} = (49, 60, 53, 1)$ lies on line $\ell_{11}$	813 : $P_{239324} = (27, 26, 57, 1)$ lies on line $\ell_{12}$
760 : $P_{225183} = (30, 61, 53, 1)$ lies on line $\ell_5$	814 : $P_{239588} = (35, 30, 57, 1)$ lies on line $\ell_1$
761 : $P_{225268} = (51, 62, 53, 1)$ lies on line $\ell_6$	815 : $P_{239934} = (61, 35, 57, 1)$ lies on line $\ell_2$
762 : $P_{225360} = (15, 0, 54, 1)$ lies on line $\ell_{14}$	816 : $P_{240167} = (38, 39, 57, 1)$ lies on line $\ell_6$
763 : $P_{226305} = (0, 15, 54, 1)$ lies on line $\ell_8$	817 : $P_{240211} = (18, 40, 57, 1)$ lies on line $\ell_3$
764 : $P_{226555} = (58, 18, 54, 1)$ lies on line $\ell_0$	818 : $P_{240404} = (19, 43, 57, 1)$ lies on line $\ell_{13}$
765 : $P_{226723} = (34, 21, 54, 1)$ lies on line $\ell_{13}$	819 : $P_{241385} = (40, 58, 57, 1)$ lies on line $\ell_4$
766 : $P_{226786} = (33, 22, 54, 1)$ lies on line $\ell_7$	820 : $P_{241567} = (30, 61, 57, 1)$ lies on line $\ell_5$
767 : $P_{227300} = (35, 30, 54, 1)$ lies on line $\ell_1$	821 : $P_{241663} = (62, 62, 57, 1)$ lies on line $\ell_{14}$

822 : $P_{241795} = (2, 1, 58, 1)$ lies on line $\ell_9$	865 : $P_{255227} = (58, 18, 61, 1)$ lies on line $\ell_0$
823 : $P_{242316} = (11, 9, 58, 1)$ lies on line $\ell_{12}$	866 : $P_{255972} = (35, 30, 61, 1)$ lies on line $\ell_1$
824 : $P_{242377} = (8, 10, 58, 1)$ lies on line $\ell_{11}$	867 : $P_{256101} = (36, 32, 61, 1)$ lies on line $\ell_8$
825 : $P_{242615} = (54, 13, 58, 1)$ lies on line $\ell_{10}$	868 : $P_{256318} = (61, 35, 61, 1)$ lies on line $\ell_2$
826 : $P_{242741} = (52, 15, 58, 1)$ lies on line $\ell_7$	869 : $P_{256418} = (33, 37, 61, 1)$ lies on line $\ell_{14}$
827 : $P_{242939} = (58, 18, 58, 1)$ lies on line $\ell_0$	870 : $P_{256595} = (18, 40, 61, 1)$ lies on line $\ell_3$
828 : $P_{243158} = (21, 22, 58, 1)$ lies on line $\ell_8$	871 : $P_{257101} = (12, 48, 61, 1)$ lies on line $\ell_{13}$
829 : $P_{243684} = (35, 30, 58, 1)$ lies on line $\ell_1$	872 : $P_{257335} = (54, 51, 61, 1)$ lies on line $\ell_{11}$
830 : $P_{244030} = (61, 35, 58, 1)$ lies on line $\ell_2$	873 : $P_{257353} = (8, 52, 61, 1)$ lies on line $\ell_{10}$
831 : $P_{244307} = (18, 40, 58, 1)$ lies on line $\ell_3$	874 : $P_{257661} = (60, 56, 61, 1)$ lies on line $\ell_9$
832 : $P_{244655} = (46, 45, 58, 1)$ lies on line $\ell_{14}$	875 : $P_{257670} = (5, 57, 61, 1)$ lies on line $\ell_7$
833 : $P_{245316} = (3, 56, 58, 1)$ lies on line $\ell_{13}$	876 : $P_{257769} = (40, 58, 61, 1)$ lies on line $\ell_4$
834 : $P_{245436} = (59, 57, 58, 1)$ lies on line $\ell_6$	877 : $P_{257951} = (30, 61, 61, 1)$ lies on line $\ell_5$
835 : $P_{245481} = (40, 58, 58, 1)$ lies on line $\ell_4$	878 : $P_{259224} = (23, 17, 62, 1)$ lies on line $\ell_6$
836 : $P_{245663} = (30, 61, 58, 1)$ lies on line $\ell_5$	879 : $P_{259285} = (20, 18, 62, 1)$ lies on line $\ell_{12}$
837 : $P_{246018} = (1, 3, 59, 1)$ lies on line $\ell_{14}$	880 : $P_{259323} = (58, 18, 62, 1)$ lies on line $\ell_0$
838 : $P_{246208} = (63, 5, 59, 1)$ lies on line $\ell_7$	881 : $P_{260068} = (35, 30, 62, 1)$ lies on line $\ell_1$
839 : $P_{247035} = (58, 18, 59, 1)$ lies on line $\ell_0$	882 : $P_{260381} = (28, 35, 62, 1)$ lies on line $\ell_{13}$
840 : $P_{247277} = (44, 22, 59, 1)$ lies on line $\ell_{13}$	883 : $P_{260414} = (61, 35, 62, 1)$ lies on line $\ell_2$
841 : $P_{247647} = (30, 28, 59, 1)$ lies on line $\ell_8$	884 : $P_{260633} = (24, 39, 62, 1)$ lies on line $\ell_7$
842 : $P_{247780} = (35, 30, 59, 1)$ lies on line $\ell_1$	885 : $P_{260691} = (18, 40, 62, 1)$ lies on line $\ell_3$
843 : $P_{248126} = (61, 35, 59, 1)$ lies on line $\ell_2$	886 : $P_{261830} = (5, 58, 62, 1)$ lies on line $\ell_{10}$
844 : $P_{248167} = (38, 36, 59, 1)$ lies on line $\ell_9$	887 : $P_{261865} = (40, 58, 62, 1)$ lies on line $\ell_4$
845 : $P_{248357} = (36, 39, 59, 1)$ lies on line $\ell_{12}$	888 : $P_{262047} = (30, 61, 62, 1)$ lies on line $\ell_5$
846 : $P_{248877} = (44, 47, 59, 1)$ lies on line $\ell_{11}$	889 : $P_{262076} = (59, 61, 62, 1)$ lies on line $\ell_{11}$
847 : $P_{249137} = (48, 51, 59, 1)$ lies on line $\ell_6$	890 : $P_{262138} = (57, 62, 62, 1)$ lies on line $\ell_8$
848 : $P_{249577} = (40, 58, 59, 1)$ lies on line $\ell_4$	891 : $P_{263092} = (51, 13, 63, 1)$ lies on line $\ell_{13}$
849 : $P_{249759} = (30, 61, 59, 1)$ lies on line $\ell_5$	892 : $P_{263419} = (58, 18, 63, 1)$ lies on line $\ell_0$
850 : $P_{250242} = (1, 5, 60, 1)$ lies on line $\ell_6$	893 : $P_{263446} = (21, 19, 63, 1)$ lies on line $\ell_9$
851 : $P_{250639} = (14, 11, 60, 1)$ lies on line $\ell_{14}$	894 : $P_{263775} = (30, 24, 63, 1)$ lies on line $\ell_{14}$
852 : $P_{251053} = (44, 17, 60, 1)$ lies on line $\ell_{10}$	895 : $P_{263776} = (31, 24, 63, 1)$ lies on line $\ell_{11}$
853 : $P_{251131} = (58, 18, 60, 1)$ lies on line $\ell_0$	896 : $P_{263965} = (28, 27, 63, 1)$ lies on line $\ell_6$
854 : $P_{251347} = (18, 22, 60, 1)$ lies on line $\ell_{11}$	897 : $P_{264164} = (35, 30, 63, 1)$ lies on line $\ell_1$
855 : $P_{251801} = (24, 29, 60, 1)$ lies on line $\ell_9$	898 : $P_{264226} = (33, 31, 63, 1)$ lies on line $\ell_{10}$
856 : $P_{252222} = (61, 35, 60, 1)$ lies on line $\ell_2$	899 : $P_{264510} = (61, 35, 63, 1)$ lies on line $\ell_2$
857 : $P_{252499} = (18, 40, 60, 1)$ lies on line $\ell_3$	900 : $P_{264787} = (18, 40, 63, 1)$ lies on line $\ell_3$
858 : $P_{252656} = (47, 42, 60, 1)$ lies on line $\ell_8$	901 : $P_{265108} = (19, 45, 63, 1)$ lies on line $\ell_7$
859 : $P_{252972} = (43, 47, 60, 1)$ lies on line $\ell_{12}$	902 : $P_{265587} = (50, 52, 63, 1)$ lies on line $\ell_8$
860 : $P_{253199} = (14, 51, 60, 1)$ lies on line $\ell_7$	903 : $P_{265961} = (40, 58, 63, 1)$ lies on line $\ell_4$
861 : $P_{253673} = (40, 58, 60, 1)$ lies on line $\ell_4$	904 : $P_{266108} = (59, 60, 63, 1)$ lies on line $\ell_{12}$
862 : $P_{253855} = (30, 61, 60, 1)$ lies on line $\ell_5$	905 : $P_{266143} = (30, 61, 63, 1)$ lies on line $\ell_5$
863 : $P_{254085} = (4, 1, 61, 1)$ lies on line $\ell_{12}$	
864 : $P_{254987} = (10, 15, 61, 1)$ lies on line $\ell_6$	

The single points on the surface are:

### Points on surface but on no line

The surface has 3480 points not on any line:  
Too many to print.

## Line Intersection Graph

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

Neighbor sets in the line intersection graph:

Line 0 intersects

Line	$\ell_1$	$\ell_2$	$\ell_3$	$\ell_4$	$\ell_5$	$\ell_7$	$\ell_{11}$	$\ell_{14}$
in point	$P_2$	$P_2$	$P_2$	$P_2$	$P_2$	$P_{173307}$	$P_{70907}$	$P_{75003}$

Line 1 intersects

Line	$\ell_0$	$\ell_2$	$\ell_3$	$\ell_4$	$\ell_5$	$\ell_8$	$\ell_{11}$	$\ell_{13}$
in point	$P_2$	$P_2$	$P_2$	$P_2$	$P_2$	$P_{22500}$	$P_{26596}$	$P_{251876}$

Line 2 intersects

Line	$\ell_0$	$\ell_1$	$\ell_3$	$\ell_4$	$\ell_5$	$\ell_6$	$\ell_{10}$	$\ell_{14}$
in point	$P_2$	$P_2$	$P_2$	$P_2$	$P_2$	$P_{162110}$	$P_{133438}$	$P_{166206}$

Line 3 intersects

Line	$\ell_0$	$\ell_1$	$\ell_2$	$\ell_4$	$\ell_5$	$\ell_8$	$\ell_{10}$	$\ell_{12}$
in point	$P_2$	$P_2$	$P_2$	$P_2$	$P_2$	$P_{19027}$	$P_{248403}$	$P_{14931}$

Line 4 intersects

Line	$\ell_0$	$\ell_1$	$\ell_2$	$\ell_3$	$\ell_5$	$\ell_6$	$\ell_9$	$\ell_{13}$
in point	$P_2$	$P_2$	$P_2$	$P_2$	$P_2$	$P_{179945}$	$P_{184041}$	$P_{85737}$

Line 5 intersects

Line	$\ell_0$	$\ell_1$	$\ell_2$	$\ell_3$	$\ell_4$	$\ell_7$	$\ell_9$	$\ell_{12}$
in point	$P_2$	$P_2$	$P_2$	$P_2$	$P_2$	$P_{147359}$	$P_{114591}$	$P_{118687}$

Line 6 intersects

Line	$\ell_2$	$\ell_4$	$\ell_7$	$\ell_8$	$\ell_{11}$	$\ell_{12}$
in point	$P_{162110}$	$P_{179945}$	$P_{718}$	$P_{718}$	$P_{140685}$	$P_{189274}$

Line 7 intersects

Line	$\ell_0$	$\ell_5$	$\ell_6$	$\ell_8$	$\ell_{10}$	$\ell_{13}$
in point	$P_{173307}$	$P_{147359}$	$P_{718}$	$P_{718}$	$P_{194892}$	$P_{156464}$

Line 8 intersects

Line	$\ell_1$	$\ell_3$	$\ell_6$	$\ell_7$	$\ell_9$	$\ell_{14}$
in point	$P_{22500}$	$P_{19027}$	$P_{718}$	$P_{718}$	$P_{68744}$	$P_{37431}$

Line 9 intersects

Line	$\ell_4$	$\ell_5$	$\ell_8$	$\ell_{10}$	$\ell_{11}$	$\ell_{14}$
in point	$P_{184041}$	$P_{114591}$	$P_{68744}$	$P_{2471}$	$P_{2471}$	$P_{261618}$

Line 10 intersects

Line	$\ell_2$	$\ell_3$	$\ell_7$	$\ell_9$	$\ell_{11}$	$\ell_{13}$
in point	$P_{133438}$	$P_{248403}$	$P_{194892}$	$P_{2471}$	$P_{2471}$	$P_{48165}$

Line 11 intersects

Line	$\ell_0$	$\ell_1$	$\ell_6$	$\ell_9$	$\ell_{10}$	$\ell_{12}$
in point	$P_{70907}$	$P_{26596}$	$P_{140685}$	$P_{2471}$	$P_{2471}$	$P_{218774}$

Line 12 intersects

Line	$\ell_3$	$\ell_5$	$\ell_6$	$\ell_{11}$	$\ell_{13}$	$\ell_{14}$
in point	$P_{14931}$	$P_{118687}$	$P_{189274}$	$P_{218774}$	$P_{3058}$	$P_{3058}$

Line 13 intersects

Line	$\ell_1$	$\ell_4$	$\ell_7$	$\ell_{10}$	$\ell_{12}$	$\ell_{14}$
in point	$P_{251876}$	$P_{85737}$	$P_{156464}$	$P_{48165}$	$P_{3058}$	$P_{3058}$

Line 14 intersects

Line	$\ell_0$	$\ell_2$	$\ell_8$	$\ell_9$	$\ell_{12}$	$\ell_{13}$
in point	$P_{75003}$	$P_{166206}$	$P_{37431}$	$P_{261618}$	$P_{3058}$	$P_{3058}$

The surface has 4417 points:

Too many to print.