

# Rank-65868 over GF(64)

January 15, 2021

## The equation

The equation of the surface is :

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

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

The point rank of the equation over GF(64) is 1091047494

## General information

Number of lines	15
Number of points	4417
Number of singular points	1
Number of Eckardt points	1
Number of double points	33
Number of single points	900
Number of points off lines	3482
Number of Hesse planes	0
Number of axes	0
Type of points on lines	$65^{15}$
Type of lines on points	$6, 3, 2^{33}, 1^{900}, 0^{3482}$

## 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:

$$\ell_0 = \begin{bmatrix} 1 & 0 & 0 & \epsilon^9 \\ 0 & 1 & 0 & 0 \end{bmatrix}_{12516288} = \begin{bmatrix} 1 & 0 & 0 & 47 \\ 0 & 1 & 0 & 0 \end{bmatrix}_{12516288} = \mathbf{Pl}(10, 0, 0, 1, 0, 0)_{139}$$

$$\begin{aligned}
\ell_1 &= \begin{bmatrix} 1 & 0 & 0 & \epsilon^{18} \\ 0 & 1 & 0 & 0 \end{bmatrix}_{2929344} = \begin{bmatrix} 1 & 0 & 0 & 11 \\ 0 & 1 & 0 & 0 \end{bmatrix}_{2929344} = \mathbf{Pl}(37, 0, 0, 1, 0, 0)_{166} \\
\ell_2 &= \begin{bmatrix} 1 & 0 & 0 & \epsilon^{36} \\ 0 & 1 & 0 & 0 \end{bmatrix}_{9586944} = \begin{bmatrix} 1 & 0 & 0 & 36 \\ 0 & 1 & 0 & 0 \end{bmatrix}_{9586944} = \mathbf{Pl}(46, 0, 0, 1, 0, 0)_{175} \\
\ell_3 &= \begin{bmatrix} 1 & 0 & 0 & \epsilon^9 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{12520384} = \begin{bmatrix} 1 & 0 & 0 & 47 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{12520384} = \mathbf{Pl}(0, 47, 1, 0, 0, 0)_{112} \\
\ell_4 &= \begin{bmatrix} 1 & 0 & 0 & \epsilon^{18} \\ 0 & 0 & 1 & 0 \end{bmatrix}_{2933440} = \begin{bmatrix} 1 & 0 & 0 & 11 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{2933440} = \mathbf{Pl}(0, 11, 1, 0, 0, 0)_{76} \\
\ell_5 &= \begin{bmatrix} 1 & 0 & 0 & \epsilon^{36} \\ 0 & 0 & 1 & 0 \end{bmatrix}_{9591040} = \begin{bmatrix} 1 & 0 & 0 & 36 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{9591040} = \mathbf{Pl}(0, 36, 1, 0, 0, 0)_{101} \\
\ell_6 &= \begin{bmatrix} 1 & 1 & 0 & \epsilon^9 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{12524545} = \begin{bmatrix} 1 & 1 & 0 & 47 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{12524545} = \mathbf{Pl}(0, 47, 1, 0, 0, 1)_{270638} \\
\ell_7 &= \begin{bmatrix} 1 & 1 & 0 & \epsilon^{18} \\ 0 & 0 & 1 & 0 \end{bmatrix}_{2937601} = \begin{bmatrix} 1 & 1 & 0 & 11 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{2937601} = \mathbf{Pl}(0, 11, 1, 0, 0, 1)_{270602} \\
\ell_8 &= \begin{bmatrix} 1 & 1 & 0 & \epsilon^{36} \\ 0 & 0 & 1 & 0 \end{bmatrix}_{9595201} = \begin{bmatrix} 1 & 1 & 0 & 36 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{9595201} = \mathbf{Pl}(0, 36, 1, 0, 0, 1)_{270627} \\
\ell_9 &= \begin{bmatrix} 1 & 0 & \epsilon^{18} & \epsilon^{18} \\ 0 & 1 & \epsilon^{45} & \epsilon^{36} \end{bmatrix}_{2977456} = \begin{bmatrix} 1 & 0 & 11 & 11 \\ 0 & 1 & 37 & 36 \end{bmatrix}_{2977456} = \mathbf{Pl}(1, 1, 1, 1, 11, 1)_{3176214} \\
\ell_{10} &= \begin{bmatrix} 1 & 0 & \epsilon^{36} & \epsilon^{36} \\ 0 & 1 & \epsilon^{27} & \epsilon^9 \end{bmatrix}_{9739794} = \begin{bmatrix} 1 & 0 & 36 & 36 \\ 0 & 1 & 46 & 47 \end{bmatrix}_{9739794} = \mathbf{Pl}(1, 1, 1, 1, 36, 1)_{9725946} \\
\ell_{11} &= \begin{bmatrix} 1 & 0 & \epsilon^9 & \epsilon^9 \\ 0 & 1 & \epsilon^{54} & \epsilon^{18} \end{bmatrix}_{12712569} = \begin{bmatrix} 1 & 0 & 47 & 47 \\ 0 & 1 & 10 & 11 \end{bmatrix}_{12712569} = \mathbf{Pl}(1, 1, 1, 1, 47, 1)_{12610401} \\
\ell_{12} &= \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_{13} &= \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_{14} &= \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}
\end{aligned}$$

Rank of lines: ( 12516288, 2929344, 9586944, 12520384, 2933440, 9591040, 12524545, 2937601, 9595201, 2977456, 9739794, 12712569, 12710035, 2974008, 9741615 )

Rank of points on Klein quadric: ( 139, 166, 175, 112, 76, 101, 270638, 270602, 270627, 3176214, 9725946, 12610401, 12647869, 3312304, 9907862 )

### Eckardt Points

The surface has 1 Eckardt points:

$$0 : P_1 = \mathbf{P}(0, 1, 0, 0) = \mathbf{P}(0, 1, 0, 0).$$

### Double Points

The surface has 33 Double points:

The double points on the surface are:

$$\begin{aligned}
P_{4172} &= (10, 0, 0, 1) = \ell_0 \cap \ell_3 \\
P_{4812} &= (10, 10, 0, 1) = \ell_0 \cap \ell_6 \\
P_{4236} &= (10, 1, 0, 1) = \ell_0 \cap \ell_{10} \\
P_{4876} &= (10, 11, 0, 1) = \ell_0 \cap \ell_{13} \\
P_{4199} &= (37, 0, 0, 1) = \ell_1 \cap \ell_4 \\
P_{6567} &= (37, 37, 0, 1) = \ell_1 \cap \ell_7 \\
P_{4263} &= (37, 1, 0, 1) = \ell_1 \cap \ell_{11} \\
P_{6503} &= (37, 36, 0, 1) = \ell_1 \cap \ell_{14} \\
P_{4208} &= (46, 0, 0, 1) = \ell_2 \cap \ell_5 \\
P_{7152} &= (46, 46, 0, 1) = \ell_2 \cap \ell_8 \\
P_{4272} &= (46, 1, 0, 1) = \ell_2 \cap \ell_9 \\
P_{7216} &= (46, 47, 0, 1) = \ell_2 \cap \ell_{12} \\
P_{8268} &= (10, 0, 1, 1) = \ell_3 \cap \ell_{11} \\
P_{49227} &= (10, 0, 11, 1) = \ell_3 \cap \ell_{12} \\
P_{8295} &= (37, 0, 1, 1) = \ell_4 \cap \ell_9 \\
P_{151654} &= (37, 0, 36, 1) = \ell_4 \cap \ell_{13} \\
P_{8304} &= (46, 0, 1, 1) = \ell_5 \cap \ell_{10}
\end{aligned}$$

$$\begin{aligned}
P_{196719} &= (46, 0, 47, 1) = \ell_5 \cap \ell_{14} \\
P_{49867} &= (10, 10, 11, 1) = \ell_6 \cap \ell_9 \\
P_{8907} &= (10, 10, 1, 1) = \ell_6 \cap \ell_{14} \\
P_{154022} &= (37, 37, 36, 1) = \ell_7 \cap \ell_{10} \\
P_{10662} &= (37, 37, 1, 1) = \ell_7 \cap \ell_{12} \\
P_{199663} &= (46, 46, 47, 1) = \ell_8 \cap \ell_{11} \\
P_{11247} &= (46, 46, 1, 1) = \ell_8 \cap \ell_{13} \\
P_{195596} &= (11, 47, 46, 1) = \ell_9 \cap \ell_{10} \\
P_{158064} &= (47, 36, 37, 1) = \ell_9 \cap \ell_{11} \\
P_{199617} &= (0, 46, 47, 1) = \ell_9 \cap \ell_{12} \\
P_{45861} &= (36, 11, 10, 1) = \ell_{10} \cap \ell_{11} \\
P_{49857} &= (0, 10, 11, 1) = \ell_{10} \cap \ell_{13} \\
P_{153985} &= (0, 37, 36, 1) = \ell_{11} \cap \ell_{14} \\
P_{194892} &= (11, 36, 46, 1) = \ell_{12} \cap \ell_{13} \\
P_{156464} &= (47, 11, 37, 1) = \ell_{12} \cap \ell_{14} \\
P_{48165} &= (36, 47, 10, 1) = \ell_{13} \cap \ell_{14}
\end{aligned}$$

### Single Points

The surface has 900 single points:  
The single points on the surface are:

$$\begin{aligned}
0 : P_{142} &= (11, 1, 1, 0) \text{ lies on line } \ell_9 \\
1 : P_{167} &= (36, 1, 1, 0) \text{ lies on line } \ell_{10} \\
2 : P_{178} &= (47, 1, 1, 0) \text{ lies on line } \ell_{11} \\
3 : P_{718} &= (11, 10, 1, 0) \text{ lies on line } \ell_{12} \\
4 : P_{2471} &= (36, 37, 1, 0) \text{ lies on line } \ell_{13} \\
5 : P_{3058} &= (47, 46, 1, 0) \text{ lies on line } \ell_{14} \\
6 : P_{4300} &= (10, 2, 0, 1) \text{ lies on line } \ell_0 \\
7 : P_{4327} &= (37, 2, 0, 1) \text{ lies on line } \ell_1 \\
8 : P_{4336} &= (46, 2, 0, 1) \text{ lies on line } \ell_2 \\
9 : P_{4364} &= (10, 3, 0, 1) \text{ lies on line } \ell_0 \\
10 : P_{4391} &= (37, 3, 0, 1) \text{ lies on line } \ell_1 \\
11 : P_{4400} &= (46, 3, 0, 1) \text{ lies on line } \ell_2 \\
12 : P_{4428} &= (10, 4, 0, 1) \text{ lies on line } \ell_0 \\
13 : P_{4455} &= (37, 4, 0, 1) \text{ lies on line } \ell_1 \\
14 : P_{4464} &= (46, 4, 0, 1) \text{ lies on line } \ell_2 \\
15 : P_{4492} &= (10, 5, 0, 1) \text{ lies on line } \ell_0 \\
16 : P_{4519} &= (37, 5, 0, 1) \text{ lies on line } \ell_1 \\
17 : P_{4528} &= (46, 5, 0, 1) \text{ lies on line } \ell_2 \\
18 : P_{4556} &= (10, 6, 0, 1) \text{ lies on line } \ell_0 \\
19 : P_{4583} &= (37, 6, 0, 1) \text{ lies on line } \ell_1 \\
20 : P_{4592} &= (46, 6, 0, 1) \text{ lies on line } \ell_2 \\
21 : P_{4620} &= (10, 7, 0, 1) \text{ lies on line } \ell_0 \\
22 : P_{4647} &= (37, 7, 0, 1) \text{ lies on line } \ell_1 \\
23 : P_{4656} &= (46, 7, 0, 1) \text{ lies on line } \ell_2 \\
24 : P_{4684} &= (10, 8, 0, 1) \text{ lies on line } \ell_0 \\
25 : P_{4711} &= (37, 8, 0, 1) \text{ lies on line } \ell_1 \\
26 : P_{4720} &= (46, 8, 0, 1) \text{ lies on line } \ell_2 \\
27 : P_{4748} &= (10, 9, 0, 1) \text{ lies on line } \ell_0 \\
28 : P_{4775} &= (37, 9, 0, 1) \text{ lies on line } \ell_1 \\
29 : P_{4784} &= (46, 9, 0, 1) \text{ lies on line } \ell_2
\end{aligned}$$

$$\begin{aligned}
30 : P_{4839} &= (37, 10, 0, 1) \text{ lies on line } \ell_1 \\
31 : P_{4848} &= (46, 10, 0, 1) \text{ lies on line } \ell_2 \\
32 : P_{4903} &= (37, 11, 0, 1) \text{ lies on line } \ell_1 \\
33 : P_{4912} &= (46, 11, 0, 1) \text{ lies on line } \ell_2 \\
34 : P_{4940} &= (10, 12, 0, 1) \text{ lies on line } \ell_0 \\
35 : P_{4967} &= (37, 12, 0, 1) \text{ lies on line } \ell_1 \\
36 : P_{4976} &= (46, 12, 0, 1) \text{ lies on line } \ell_2 \\
37 : P_{5004} &= (10, 13, 0, 1) \text{ lies on line } \ell_0 \\
38 : P_{5031} &= (37, 13, 0, 1) \text{ lies on line } \ell_1 \\
39 : P_{5040} &= (46, 13, 0, 1) \text{ lies on line } \ell_2 \\
40 : P_{5068} &= (10, 14, 0, 1) \text{ lies on line } \ell_0 \\
41 : P_{5095} &= (37, 14, 0, 1) \text{ lies on line } \ell_1 \\
42 : P_{5104} &= (46, 14, 0, 1) \text{ lies on line } \ell_2 \\
43 : P_{5132} &= (10, 15, 0, 1) \text{ lies on line } \ell_0 \\
44 : P_{5159} &= (37, 15, 0, 1) \text{ lies on line } \ell_1 \\
45 : P_{5168} &= (46, 15, 0, 1) \text{ lies on line } \ell_2 \\
46 : P_{5196} &= (10, 16, 0, 1) \text{ lies on line } \ell_0 \\
47 : P_{5223} &= (37, 16, 0, 1) \text{ lies on line } \ell_1 \\
48 : P_{5232} &= (46, 16, 0, 1) \text{ lies on line } \ell_2 \\
49 : P_{5260} &= (10, 17, 0, 1) \text{ lies on line } \ell_0 \\
50 : P_{5287} &= (37, 17, 0, 1) \text{ lies on line } \ell_1 \\
51 : P_{5296} &= (46, 17, 0, 1) \text{ lies on line } \ell_2 \\
52 : P_{5324} &= (10, 18, 0, 1) \text{ lies on line } \ell_0 \\
53 : P_{5351} &= (37, 18, 0, 1) \text{ lies on line } \ell_1 \\
54 : P_{5360} &= (46, 18, 0, 1) \text{ lies on line } \ell_2 \\
55 : P_{5388} &= (10, 19, 0, 1) \text{ lies on line } \ell_0 \\
56 : P_{5415} &= (37, 19, 0, 1) \text{ lies on line } \ell_1 \\
57 : P_{5424} &= (46, 19, 0, 1) \text{ lies on line } \ell_2 \\
58 : P_{5452} &= (10, 20, 0, 1) \text{ lies on line } \ell_0 \\
59 : P_{5479} &= (37, 20, 0, 1) \text{ lies on line } \ell_1
\end{aligned}$$

60 :  $P_{5488} = (46, 20, 0, 1)$  lies on line  $\ell_2$   
 61 :  $P_{5516} = (10, 21, 0, 1)$  lies on line  $\ell_0$   
 62 :  $P_{5543} = (37, 21, 0, 1)$  lies on line  $\ell_1$   
 63 :  $P_{5552} = (46, 21, 0, 1)$  lies on line  $\ell_2$   
 64 :  $P_{5580} = (10, 22, 0, 1)$  lies on line  $\ell_0$   
 65 :  $P_{5607} = (37, 22, 0, 1)$  lies on line  $\ell_1$   
 66 :  $P_{5616} = (46, 22, 0, 1)$  lies on line  $\ell_2$   
 67 :  $P_{5644} = (10, 23, 0, 1)$  lies on line  $\ell_0$   
 68 :  $P_{5671} = (37, 23, 0, 1)$  lies on line  $\ell_1$   
 69 :  $P_{5680} = (46, 23, 0, 1)$  lies on line  $\ell_2$   
 70 :  $P_{5708} = (10, 24, 0, 1)$  lies on line  $\ell_0$   
 71 :  $P_{5735} = (37, 24, 0, 1)$  lies on line  $\ell_1$   
 72 :  $P_{5744} = (46, 24, 0, 1)$  lies on line  $\ell_2$   
 73 :  $P_{5772} = (10, 25, 0, 1)$  lies on line  $\ell_0$   
 74 :  $P_{5799} = (37, 25, 0, 1)$  lies on line  $\ell_1$   
 75 :  $P_{5808} = (46, 25, 0, 1)$  lies on line  $\ell_2$   
 76 :  $P_{5836} = (10, 26, 0, 1)$  lies on line  $\ell_0$   
 77 :  $P_{5863} = (37, 26, 0, 1)$  lies on line  $\ell_1$   
 78 :  $P_{5872} = (46, 26, 0, 1)$  lies on line  $\ell_2$   
 79 :  $P_{5900} = (10, 27, 0, 1)$  lies on line  $\ell_0$   
 80 :  $P_{5927} = (37, 27, 0, 1)$  lies on line  $\ell_1$   
 81 :  $P_{5936} = (46, 27, 0, 1)$  lies on line  $\ell_2$   
 82 :  $P_{5964} = (10, 28, 0, 1)$  lies on line  $\ell_0$   
 83 :  $P_{5991} = (37, 28, 0, 1)$  lies on line  $\ell_1$   
 84 :  $P_{6000} = (46, 28, 0, 1)$  lies on line  $\ell_2$   
 85 :  $P_{6028} = (10, 29, 0, 1)$  lies on line  $\ell_0$   
 86 :  $P_{6055} = (37, 29, 0, 1)$  lies on line  $\ell_1$   
 87 :  $P_{6064} = (46, 29, 0, 1)$  lies on line  $\ell_2$   
 88 :  $P_{6092} = (10, 30, 0, 1)$  lies on line  $\ell_0$   
 89 :  $P_{6119} = (37, 30, 0, 1)$  lies on line  $\ell_1$   
 90 :  $P_{6128} = (46, 30, 0, 1)$  lies on line  $\ell_2$   
 91 :  $P_{6156} = (10, 31, 0, 1)$  lies on line  $\ell_0$   
 92 :  $P_{6183} = (37, 31, 0, 1)$  lies on line  $\ell_1$   
 93 :  $P_{6192} = (46, 31, 0, 1)$  lies on line  $\ell_2$   
 94 :  $P_{6220} = (10, 32, 0, 1)$  lies on line  $\ell_0$   
 95 :  $P_{6247} = (37, 32, 0, 1)$  lies on line  $\ell_1$   
 96 :  $P_{6256} = (46, 32, 0, 1)$  lies on line  $\ell_2$   
 97 :  $P_{6284} = (10, 33, 0, 1)$  lies on line  $\ell_0$   
 98 :  $P_{6311} = (37, 33, 0, 1)$  lies on line  $\ell_1$   
 99 :  $P_{6320} = (46, 33, 0, 1)$  lies on line  $\ell_2$   
 100 :  $P_{6348} = (10, 34, 0, 1)$  lies on line  $\ell_0$   
 101 :  $P_{6375} = (37, 34, 0, 1)$  lies on line  $\ell_1$   
 102 :  $P_{6384} = (46, 34, 0, 1)$  lies on line  $\ell_2$   
 103 :  $P_{6412} = (10, 35, 0, 1)$  lies on line  $\ell_0$   
 104 :  $P_{6439} = (37, 35, 0, 1)$  lies on line  $\ell_1$   
 105 :  $P_{6448} = (46, 35, 0, 1)$  lies on line  $\ell_2$   
 106 :  $P_{6476} = (10, 36, 0, 1)$  lies on line  $\ell_0$   
 107 :  $P_{6512} = (46, 36, 0, 1)$  lies on line  $\ell_2$   
 108 :  $P_{6540} = (10, 37, 0, 1)$  lies on line  $\ell_0$   
 109 :  $P_{6576} = (46, 37, 0, 1)$  lies on line  $\ell_2$   
 110 :  $P_{6604} = (10, 38, 0, 1)$  lies on line  $\ell_0$   
 111 :  $P_{6631} = (37, 38, 0, 1)$  lies on line  $\ell_1$   
 112 :  $P_{6640} = (46, 38, 0, 1)$  lies on line  $\ell_2$   
 113 :  $P_{6668} = (10, 39, 0, 1)$  lies on line  $\ell_0$

114 :  $P_{6695} = (37, 39, 0, 1)$  lies on line  $\ell_1$   
 115 :  $P_{6704} = (46, 39, 0, 1)$  lies on line  $\ell_2$   
 116 :  $P_{6732} = (10, 40, 0, 1)$  lies on line  $\ell_0$   
 117 :  $P_{6759} = (37, 40, 0, 1)$  lies on line  $\ell_1$   
 118 :  $P_{6768} = (46, 40, 0, 1)$  lies on line  $\ell_2$   
 119 :  $P_{6796} = (10, 41, 0, 1)$  lies on line  $\ell_0$   
 120 :  $P_{6823} = (37, 41, 0, 1)$  lies on line  $\ell_1$   
 121 :  $P_{6832} = (46, 41, 0, 1)$  lies on line  $\ell_2$   
 122 :  $P_{6860} = (10, 42, 0, 1)$  lies on line  $\ell_0$   
 123 :  $P_{6887} = (37, 42, 0, 1)$  lies on line  $\ell_1$   
 124 :  $P_{6896} = (46, 42, 0, 1)$  lies on line  $\ell_2$   
 125 :  $P_{6924} = (10, 43, 0, 1)$  lies on line  $\ell_0$   
 126 :  $P_{6951} = (37, 43, 0, 1)$  lies on line  $\ell_1$   
 127 :  $P_{6960} = (46, 43, 0, 1)$  lies on line  $\ell_2$   
 128 :  $P_{6988} = (10, 44, 0, 1)$  lies on line  $\ell_0$   
 129 :  $P_{7015} = (37, 44, 0, 1)$  lies on line  $\ell_1$   
 130 :  $P_{7024} = (46, 44, 0, 1)$  lies on line  $\ell_2$   
 131 :  $P_{7052} = (10, 45, 0, 1)$  lies on line  $\ell_0$   
 132 :  $P_{7079} = (37, 45, 0, 1)$  lies on line  $\ell_1$   
 133 :  $P_{7088} = (46, 45, 0, 1)$  lies on line  $\ell_2$   
 134 :  $P_{7116} = (10, 46, 0, 1)$  lies on line  $\ell_0$   
 135 :  $P_{7143} = (37, 46, 0, 1)$  lies on line  $\ell_1$   
 136 :  $P_{7180} = (10, 47, 0, 1)$  lies on line  $\ell_0$   
 137 :  $P_{7207} = (37, 47, 0, 1)$  lies on line  $\ell_1$   
 138 :  $P_{7244} = (10, 48, 0, 1)$  lies on line  $\ell_0$   
 139 :  $P_{7271} = (37, 48, 0, 1)$  lies on line  $\ell_1$   
 140 :  $P_{7280} = (46, 48, 0, 1)$  lies on line  $\ell_2$   
 141 :  $P_{7308} = (10, 49, 0, 1)$  lies on line  $\ell_0$   
 142 :  $P_{7335} = (37, 49, 0, 1)$  lies on line  $\ell_1$   
 143 :  $P_{7344} = (46, 49, 0, 1)$  lies on line  $\ell_2$   
 144 :  $P_{7372} = (10, 50, 0, 1)$  lies on line  $\ell_0$   
 145 :  $P_{7399} = (37, 50, 0, 1)$  lies on line  $\ell_1$   
 146 :  $P_{7408} = (46, 50, 0, 1)$  lies on line  $\ell_2$   
 147 :  $P_{7436} = (10, 51, 0, 1)$  lies on line  $\ell_0$   
 148 :  $P_{7463} = (37, 51, 0, 1)$  lies on line  $\ell_1$   
 149 :  $P_{7472} = (46, 51, 0, 1)$  lies on line  $\ell_2$   
 150 :  $P_{7500} = (10, 52, 0, 1)$  lies on line  $\ell_0$   
 151 :  $P_{7527} = (37, 52, 0, 1)$  lies on line  $\ell_1$   
 152 :  $P_{7536} = (46, 52, 0, 1)$  lies on line  $\ell_2$   
 153 :  $P_{7564} = (10, 53, 0, 1)$  lies on line  $\ell_0$   
 154 :  $P_{7591} = (37, 53, 0, 1)$  lies on line  $\ell_1$   
 155 :  $P_{7600} = (46, 53, 0, 1)$  lies on line  $\ell_2$   
 156 :  $P_{7628} = (10, 54, 0, 1)$  lies on line  $\ell_0$   
 157 :  $P_{7655} = (37, 54, 0, 1)$  lies on line  $\ell_1$   
 158 :  $P_{7664} = (46, 54, 0, 1)$  lies on line  $\ell_2$   
 159 :  $P_{7692} = (10, 55, 0, 1)$  lies on line  $\ell_0$   
 160 :  $P_{7719} = (37, 55, 0, 1)$  lies on line  $\ell_1$   
 161 :  $P_{7728} = (46, 55, 0, 1)$  lies on line  $\ell_2$   
 162 :  $P_{7756} = (10, 56, 0, 1)$  lies on line  $\ell_0$   
 163 :  $P_{7783} = (37, 56, 0, 1)$  lies on line  $\ell_1$   
 164 :  $P_{7792} = (46, 56, 0, 1)$  lies on line  $\ell_2$   
 165 :  $P_{7820} = (10, 57, 0, 1)$  lies on line  $\ell_0$   
 166 :  $P_{7847} = (37, 57, 0, 1)$  lies on line  $\ell_1$   
 167 :  $P_{7856} = (46, 57, 0, 1)$  lies on line  $\ell_2$

168 :  $P_{7884} = (10, 58, 0, 1)$  lies on line  $\ell_0$   
 169 :  $P_{7911} = (37, 58, 0, 1)$  lies on line  $\ell_1$   
 170 :  $P_{7920} = (46, 58, 0, 1)$  lies on line  $\ell_2$   
 171 :  $P_{7948} = (10, 59, 0, 1)$  lies on line  $\ell_0$   
 172 :  $P_{7975} = (37, 59, 0, 1)$  lies on line  $\ell_1$   
 173 :  $P_{7984} = (46, 59, 0, 1)$  lies on line  $\ell_2$   
 174 :  $P_{8012} = (10, 60, 0, 1)$  lies on line  $\ell_0$   
 175 :  $P_{8039} = (37, 60, 0, 1)$  lies on line  $\ell_1$   
 176 :  $P_{8048} = (46, 60, 0, 1)$  lies on line  $\ell_2$   
 177 :  $P_{8076} = (10, 61, 0, 1)$  lies on line  $\ell_0$   
 178 :  $P_{8103} = (37, 61, 0, 1)$  lies on line  $\ell_1$   
 179 :  $P_{8112} = (46, 61, 0, 1)$  lies on line  $\ell_2$   
 180 :  $P_{8140} = (10, 62, 0, 1)$  lies on line  $\ell_0$   
 181 :  $P_{8167} = (37, 62, 0, 1)$  lies on line  $\ell_1$   
 182 :  $P_{8176} = (46, 62, 0, 1)$  lies on line  $\ell_2$   
 183 :  $P_{8204} = (10, 63, 0, 1)$  lies on line  $\ell_0$   
 184 :  $P_{8231} = (37, 63, 0, 1)$  lies on line  $\ell_1$   
 185 :  $P_{8240} = (46, 63, 0, 1)$  lies on line  $\ell_2$   
 186 :  $P_{12363} = (10, 0, 2, 1)$  lies on line  $\ell_3$   
 187 :  $P_{12390} = (37, 0, 2, 1)$  lies on line  $\ell_4$   
 188 :  $P_{12399} = (46, 0, 2, 1)$  lies on line  $\ell_5$   
 189 :  $P_{12571} = (26, 3, 2, 1)$  lies on line  $\ell_{11}$   
 190 :  $P_{12580} = (35, 3, 2, 1)$  lies on line  $\ell_{10}$   
 191 :  $P_{12601} = (56, 3, 2, 1)$  lies on line  $\ell_9$   
 192 :  $P_{13003} = (10, 10, 2, 1)$  lies on line  $\ell_6$   
 193 :  $P_{13979} = (26, 25, 2, 1)$  lies on line  $\ell_{14}$   
 194 :  $P_{14436} = (35, 32, 2, 1)$  lies on line  $\ell_{13}$   
 195 :  $P_{14758} = (37, 37, 2, 1)$  lies on line  $\ell_7$   
 196 :  $P_{15343} = (46, 46, 2, 1)$  lies on line  $\ell_8$   
 197 :  $P_{16185} = (56, 59, 2, 1)$  lies on line  $\ell_{12}$   
 198 :  $P_{16459} = (10, 0, 3, 1)$  lies on line  $\ell_3$   
 199 :  $P_{16486} = (37, 0, 3, 1)$  lies on line  $\ell_4$   
 200 :  $P_{16495} = (46, 0, 3, 1)$  lies on line  $\ell_5$   
 201 :  $P_{16584} = (7, 2, 3, 1)$  lies on line  $\ell_{10}$   
 202 :  $P_{16628} = (51, 2, 3, 1)$  lies on line  $\ell_9$   
 203 :  $P_{16630} = (53, 2, 3, 1)$  lies on line  $\ell_{11}$   
 204 :  $P_{16776} = (7, 5, 3, 1)$  lies on line  $\ell_{13}$   
 205 :  $P_{17099} = (10, 10, 3, 1)$  lies on line  $\ell_6$   
 206 :  $P_{18854} = (37, 37, 3, 1)$  lies on line  $\ell_7$   
 207 :  $P_{19439} = (46, 46, 3, 1)$  lies on line  $\ell_8$   
 208 :  $P_{19636} = (51, 49, 3, 1)$  lies on line  $\ell_{12}$   
 209 :  $P_{20022} = (53, 55, 3, 1)$  lies on line  $\ell_{14}$   
 210 :  $P_{20555} = (10, 0, 4, 1)$  lies on line  $\ell_3$   
 211 :  $P_{20582} = (37, 0, 4, 1)$  lies on line  $\ell_4$   
 212 :  $P_{20591} = (46, 0, 4, 1)$  lies on line  $\ell_5$   
 213 :  $P_{20867} = (2, 5, 4, 1)$  lies on line  $\ell_9$   
 214 :  $P_{20922} = (57, 5, 4, 1)$  lies on line  $\ell_{10}$   
 215 :  $P_{20923} = (58, 5, 4, 1)$  lies on line  $\ell_{11}$   
 216 :  $P_{20995} = (2, 7, 4, 1)$  lies on line  $\ell_{12}$   
 217 :  $P_{21195} = (10, 10, 4, 1)$  lies on line  $\ell_6$   
 218 :  $P_{22950} = (37, 37, 4, 1)$  lies on line  $\ell_7$   
 219 :  $P_{23535} = (46, 46, 4, 1)$  lies on line  $\ell_8$   
 220 :  $P_{24442} = (57, 60, 4, 1)$  lies on line  $\ell_{13}$   
 221 :  $P_{24635} = (58, 63, 4, 1)$  lies on line  $\ell_{14}$

222 :  $P_{24651} = (10, 0, 5, 1)$  lies on line  $\ell_3$   
 223 :  $P_{24678} = (37, 0, 5, 1)$  lies on line  $\ell_4$   
 224 :  $P_{24687} = (46, 0, 5, 1)$  lies on line  $\ell_5$   
 225 :  $P_{24906} = (9, 4, 5, 1)$  lies on line  $\ell_9$   
 226 :  $P_{24918} = (21, 4, 5, 1)$  lies on line  $\ell_{11}$   
 227 :  $P_{24926} = (29, 4, 5, 1)$  lies on line  $\ell_{10}$   
 228 :  $P_{25291} = (10, 10, 5, 1)$  lies on line  $\ell_6$   
 229 :  $P_{25482} = (9, 13, 5, 1)$  lies on line  $\ell_{12}$   
 230 :  $P_{25750} = (21, 17, 5, 1)$  lies on line  $\ell_{14}$   
 231 :  $P_{26270} = (29, 25, 5, 1)$  lies on line  $\ell_{13}$   
 232 :  $P_{27046} = (37, 37, 5, 1)$  lies on line  $\ell_7$   
 233 :  $P_{27631} = (46, 46, 5, 1)$  lies on line  $\ell_8$   
 234 :  $P_{28747} = (10, 0, 6, 1)$  lies on line  $\ell_3$   
 235 :  $P_{28774} = (37, 0, 6, 1)$  lies on line  $\ell_4$   
 236 :  $P_{28783} = (46, 0, 6, 1)$  lies on line  $\ell_5$   
 237 :  $P_{28870} = (5, 2, 6, 1)$  lies on line  $\ell_{14}$   
 238 :  $P_{29190} = (5, 7, 6, 1)$  lies on line  $\ell_{11}$   
 239 :  $P_{29201} = (16, 7, 6, 1)$  lies on line  $\ell_{10}$   
 240 :  $P_{29205} = (20, 7, 6, 1)$  lies on line  $\ell_9$   
 241 :  $P_{29387} = (10, 10, 6, 1)$  lies on line  $\ell_6$   
 242 :  $P_{29973} = (20, 19, 6, 1)$  lies on line  $\ell_{12}$   
 243 :  $P_{30225} = (16, 23, 6, 1)$  lies on line  $\ell_{13}$   
 244 :  $P_{31142} = (37, 37, 6, 1)$  lies on line  $\ell_7$   
 245 :  $P_{31727} = (46, 46, 6, 1)$  lies on line  $\ell_8$   
 246 :  $P_{32843} = (10, 0, 7, 1)$  lies on line  $\ell_3$   
 247 :  $P_{32870} = (37, 0, 7, 1)$  lies on line  $\ell_4$   
 248 :  $P_{32879} = (46, 0, 7, 1)$  lies on line  $\ell_5$   
 249 :  $P_{33248} = (31, 6, 7, 1)$  lies on line  $\ell_9$   
 250 :  $P_{33259} = (42, 6, 7, 1)$  lies on line  $\ell_{11}$   
 251 :  $P_{33269} = (52, 6, 7, 1)$  lies on line  $\ell_{10}$   
 252 :  $P_{33483} = (10, 10, 7, 1)$  lies on line  $\ell_6$   
 253 :  $P_{34464} = (31, 25, 7, 1)$  lies on line  $\ell_{12}$   
 254 :  $P_{35238} = (37, 37, 7, 1)$  lies on line  $\ell_7$   
 255 :  $P_{35691} = (42, 44, 7, 1)$  lies on line  $\ell_{14}$   
 256 :  $P_{35823} = (46, 46, 7, 1)$  lies on line  $\ell_8$   
 257 :  $P_{36085} = (52, 50, 7, 1)$  lies on line  $\ell_{13}$   
 258 :  $P_{36939} = (10, 0, 8, 1)$  lies on line  $\ell_3$   
 259 :  $P_{36966} = (37, 0, 8, 1)$  lies on line  $\ell_4$   
 260 :  $P_{36975} = (46, 0, 8, 1)$  lies on line  $\ell_5$   
 261 :  $P_{37198} = (13, 4, 8, 1)$  lies on line  $\ell_{13}$   
 262 :  $P_{37518} = (13, 9, 8, 1)$  lies on line  $\ell_{10}$   
 263 :  $P_{37528} = (23, 9, 8, 1)$  lies on line  $\ell_9$   
 264 :  $P_{37532} = (27, 9, 8, 1)$  lies on line  $\ell_{11}$   
 265 :  $P_{37579} = (10, 10, 8, 1)$  lies on line  $\ell_6$   
 266 :  $P_{38108} = (27, 18, 8, 1)$  lies on line  $\ell_{14}$   
 267 :  $P_{38872} = (23, 30, 8, 1)$  lies on line  $\ell_{12}$   
 268 :  $P_{39334} = (37, 37, 8, 1)$  lies on line  $\ell_7$   
 269 :  $P_{39919} = (46, 46, 8, 1)$  lies on line  $\ell_8$   
 270 :  $P_{41035} = (10, 0, 9, 1)$  lies on line  $\ell_3$   
 271 :  $P_{41062} = (37, 0, 9, 1)$  lies on line  $\ell_4$   
 272 :  $P_{41071} = (46, 0, 9, 1)$  lies on line  $\ell_5$   
 273 :  $P_{41565} = (28, 8, 9, 1)$  lies on line  $\ell_9$   
 274 :  $P_{41578} = (41, 8, 9, 1)$  lies on line  $\ell_{10}$   
 275 :  $P_{41589} = (52, 8, 9, 1)$  lies on line  $\ell_{11}$

276 :  $P_{41675} = (10, 10, 9, 1)$  lies on line  $\ell_6$   
 277 :  $P_{42333} = (28, 20, 9, 1)$  lies on line  $\ell_{12}$   
 278 :  $P_{43178} = (41, 33, 9, 1)$  lies on line  $\ell_{13}$   
 279 :  $P_{43430} = (37, 37, 9, 1)$  lies on line  $\ell_7$   
 280 :  $P_{44015} = (46, 46, 9, 1)$  lies on line  $\ell_8$   
 281 :  $P_{44917} = (52, 60, 9, 1)$  lies on line  $\ell_{14}$   
 282 :  $P_{45131} = (10, 0, 10, 1)$  lies on line  $\ell_3$   
 283 :  $P_{45158} = (37, 0, 10, 1)$  lies on line  $\ell_4$   
 284 :  $P_{45167} = (46, 0, 10, 1)$  lies on line  $\ell_5$   
 285 :  $P_{45762} = (1, 10, 10, 1)$  lies on line  $\ell_{12}$   
 286 :  $P_{45771} = (10, 10, 10, 1)$  lies on line  $\ell_6$   
 287 :  $P_{45826} = (1, 11, 10, 1)$  lies on line  $\ell_9$   
 288 :  $P_{47526} = (37, 37, 10, 1)$  lies on line  $\ell_7$   
 289 :  $P_{48111} = (46, 46, 10, 1)$  lies on line  $\ell_8$   
 290 :  $P_{49254} = (37, 0, 11, 1)$  lies on line  $\ell_4$   
 291 :  $P_{49263} = (46, 0, 11, 1)$  lies on line  $\ell_5$   
 292 :  $P_{49292} = (11, 1, 11, 1)$  lies on line  $\ell_{14}$   
 293 :  $P_{49868} = (11, 10, 11, 1)$  lies on line  $\ell_{11}$   
 294 :  $P_{51622} = (37, 37, 11, 1)$  lies on line  $\ell_7$   
 295 :  $P_{52207} = (46, 46, 11, 1)$  lies on line  $\ell_8$   
 296 :  $P_{53323} = (10, 0, 12, 1)$  lies on line  $\ell_3$   
 297 :  $P_{53350} = (37, 0, 12, 1)$  lies on line  $\ell_4$   
 298 :  $P_{53359} = (46, 0, 12, 1)$  lies on line  $\ell_5$   
 299 :  $P_{53893} = (4, 9, 12, 1)$  lies on line  $\ell_{14}$   
 300 :  $P_{53963} = (10, 10, 12, 1)$  lies on line  $\ell_6$   
 301 :  $P_{54149} = (4, 13, 12, 1)$  lies on line  $\ell_{11}$   
 302 :  $P_{54204} = (59, 13, 12, 1)$  lies on line  $\ell_9$   
 303 :  $P_{54207} = (62, 13, 12, 1)$  lies on line  $\ell_{10}$   
 304 :  $P_{55718} = (37, 37, 12, 1)$  lies on line  $\ell_7$   
 305 :  $P_{56303} = (46, 46, 12, 1)$  lies on line  $\ell_8$   
 306 :  $P_{56639} = (62, 51, 12, 1)$  lies on line  $\ell_{13}$   
 307 :  $P_{56828} = (59, 54, 12, 1)$  lies on line  $\ell_{12}$   
 308 :  $P_{57419} = (10, 0, 13, 1)$  lies on line  $\ell_3$   
 309 :  $P_{57446} = (37, 0, 13, 1)$  lies on line  $\ell_4$   
 310 :  $P_{57455} = (46, 0, 13, 1)$  lies on line  $\ell_5$   
 311 :  $P_{58059} = (10, 10, 13, 1)$  lies on line  $\ell_6$   
 312 :  $P_{58203} = (26, 12, 13, 1)$  lies on line  $\ell_{10}$   
 313 :  $P_{58220} = (43, 12, 13, 1)$  lies on line  $\ell_{11}$   
 314 :  $P_{58225} = (48, 12, 13, 1)$  lies on line  $\ell_9$   
 315 :  $P_{58843} = (26, 22, 13, 1)$  lies on line  $\ell_{13}$   
 316 :  $P_{59814} = (37, 37, 13, 1)$  lies on line  $\ell_7$   
 317 :  $P_{59948} = (43, 39, 13, 1)$  lies on line  $\ell_{14}$   
 318 :  $P_{60399} = (46, 46, 13, 1)$  lies on line  $\ell_8$   
 319 :  $P_{61297} = (48, 60, 13, 1)$  lies on line  $\ell_{12}$   
 320 :  $P_{61515} = (10, 0, 14, 1)$  lies on line  $\ell_3$   
 321 :  $P_{61542} = (37, 0, 14, 1)$  lies on line  $\ell_4$   
 322 :  $P_{61551} = (46, 0, 14, 1)$  lies on line  $\ell_5$   
 323 :  $P_{62155} = (10, 10, 14, 1)$  lies on line  $\ell_6$   
 324 :  $P_{62488} = (23, 15, 14, 1)$  lies on line  $\ell_{10}$   
 325 :  $P_{62510} = (45, 15, 14, 1)$  lies on line  $\ell_9$   
 326 :  $P_{62524} = (59, 15, 14, 1)$  lies on line  $\ell_{11}$   
 327 :  $P_{63064} = (23, 24, 14, 1)$  lies on line  $\ell_{13}$   
 328 :  $P_{63726} = (45, 34, 14, 1)$  lies on line  $\ell_{12}$   
 329 :  $P_{63910} = (37, 37, 14, 1)$  lies on line  $\ell_7$

330 :  $P_{64495} = (46, 46, 14, 1)$  lies on line  $\ell_8$   
 331 :  $P_{64892} = (59, 52, 14, 1)$  lies on line  $\ell_{14}$   
 332 :  $P_{65611} = (10, 0, 15, 1)$  lies on line  $\ell_3$   
 333 :  $P_{65638} = (37, 0, 15, 1)$  lies on line  $\ell_4$   
 334 :  $P_{65647} = (46, 0, 15, 1)$  lies on line  $\ell_5$   
 335 :  $P_{66251} = (10, 10, 15, 1)$  lies on line  $\ell_6$   
 336 :  $P_{66517} = (20, 14, 15, 1)$  lies on line  $\ell_{11}$   
 337 :  $P_{66535} = (38, 14, 15, 1)$  lies on line  $\ell_9$   
 338 :  $P_{66548} = (51, 14, 15, 1)$  lies on line  $\ell_{10}$   
 339 :  $P_{67285} = (20, 26, 15, 1)$  lies on line  $\ell_{14}$   
 340 :  $P_{68006} = (37, 37, 15, 1)$  lies on line  $\ell_7$   
 341 :  $P_{68199} = (38, 40, 15, 1)$  lies on line  $\ell_{12}$   
 342 :  $P_{68591} = (46, 46, 15, 1)$  lies on line  $\ell_8$   
 343 :  $P_{69556} = (51, 61, 15, 1)$  lies on line  $\ell_{13}$   
 344 :  $P_{69707} = (10, 0, 16, 1)$  lies on line  $\ell_3$   
 345 :  $P_{69734} = (37, 0, 16, 1)$  lies on line  $\ell_4$   
 346 :  $P_{69743} = (46, 0, 16, 1)$  lies on line  $\ell_5$   
 347 :  $P_{70347} = (10, 10, 16, 1)$  lies on line  $\ell_6$   
 348 :  $P_{70789} = (4, 17, 16, 1)$  lies on line  $\ell_{10}$   
 349 :  $P_{70841} = (56, 17, 16, 1)$  lies on line  $\ell_{11}$   
 350 :  $P_{70846} = (61, 17, 16, 1)$  lies on line  $\ell_9$   
 351 :  $P_{71045} = (4, 21, 16, 1)$  lies on line  $\ell_{13}$   
 352 :  $P_{72102} = (37, 37, 16, 1)$  lies on line  $\ell_7$   
 353 :  $P_{72377} = (56, 41, 16, 1)$  lies on line  $\ell_{14}$   
 354 :  $P_{72574} = (61, 44, 16, 1)$  lies on line  $\ell_{12}$   
 355 :  $P_{72687} = (46, 46, 16, 1)$  lies on line  $\ell_8$   
 356 :  $P_{73803} = (10, 0, 17, 1)$  lies on line  $\ell_3$   
 357 :  $P_{73830} = (37, 0, 17, 1)$  lies on line  $\ell_4$   
 358 :  $P_{73839} = (46, 0, 17, 1)$  lies on line  $\ell_5$   
 359 :  $P_{74264} = (23, 7, 17, 1)$  lies on line  $\ell_{14}$   
 360 :  $P_{74443} = (10, 10, 17, 1)$  lies on line  $\ell_6$   
 361 :  $P_{74840} = (23, 16, 17, 1)$  lies on line  $\ell_{11}$   
 362 :  $P_{74849} = (32, 16, 17, 1)$  lies on line  $\ell_{10}$   
 363 :  $P_{74871} = (54, 16, 17, 1)$  lies on line  $\ell_9$   
 364 :  $P_{76198} = (37, 37, 17, 1)$  lies on line  $\ell_7$   
 365 :  $P_{76279} = (54, 38, 17, 1)$  lies on line  $\ell_{12}$   
 366 :  $P_{76783} = (46, 46, 17, 1)$  lies on line  $\ell_8$   
 367 :  $P_{76897} = (32, 48, 17, 1)$  lies on line  $\ell_{13}$   
 368 :  $P_{77899} = (10, 0, 18, 1)$  lies on line  $\ell_3$   
 369 :  $P_{77926} = (37, 0, 18, 1)$  lies on line  $\ell_4$   
 370 :  $P_{77935} = (46, 0, 18, 1)$  lies on line  $\ell_5$   
 371 :  $P_{78539} = (10, 10, 18, 1)$  lies on line  $\ell_6$   
 372 :  $P_{79112} = (7, 19, 18, 1)$  lies on line  $\ell_{11}$   
 373 :  $P_{79148} = (43, 19, 18, 1)$  lies on line  $\ell_9$   
 374 :  $P_{79150} = (45, 19, 18, 1)$  lies on line  $\ell_{10}$   
 375 :  $P_{79176} = (7, 20, 18, 1)$  lies on line  $\ell_{14}$   
 376 :  $P_{80294} = (37, 37, 18, 1)$  lies on line  $\ell_7$   
 377 :  $P_{80879} = (46, 46, 18, 1)$  lies on line  $\ell_8$   
 378 :  $P_{81516} = (43, 56, 18, 1)$  lies on line  $\ell_{12}$   
 379 :  $P_{81902} = (45, 62, 18, 1)$  lies on line  $\ell_{13}$   
 380 :  $P_{81995} = (10, 0, 19, 1)$  lies on line  $\ell_3$   
 381 :  $P_{82022} = (37, 0, 19, 1)$  lies on line  $\ell_4$   
 382 :  $P_{82031} = (46, 0, 19, 1)$  lies on line  $\ell_5$   
 383 :  $P_{82635} = (10, 10, 19, 1)$  lies on line  $\ell_6$

384 :  $P_{83146} = (9, 18, 19, 1)$  lies on line  $\ell_{10}$   
 385 :  $P_{83169} = (32, 18, 19, 1)$  lies on line  $\ell_9$   
 386 :  $P_{83177} = (40, 18, 19, 1)$  lies on line  $\ell_{11}$   
 387 :  $P_{83722} = (9, 27, 19, 1)$  lies on line  $\ell_{13}$   
 388 :  $P_{84390} = (37, 37, 19, 1)$  lies on line  $\ell_7$   
 389 :  $P_{84975} = (46, 46, 19, 1)$  lies on line  $\ell_8$   
 390 :  $P_{85217} = (32, 50, 19, 1)$  lies on line  $\ell_{12}$   
 391 :  $P_{85737} = (40, 58, 19, 1)$  lies on line  $\ell_{14}$   
 392 :  $P_{86091} = (10, 0, 20, 1)$  lies on line  $\ell_3$   
 393 :  $P_{86118} = (37, 0, 20, 1)$  lies on line  $\ell_4$   
 394 :  $P_{86127} = (46, 0, 20, 1)$  lies on line  $\ell_5$   
 395 :  $P_{86354} = (17, 4, 20, 1)$  lies on line  $\ell_{12}$   
 396 :  $P_{86731} = (10, 10, 20, 1)$  lies on line  $\ell_6$   
 397 :  $P_{87442} = (17, 21, 20, 1)$  lies on line  $\ell_9$   
 398 :  $P_{87464} = (39, 21, 20, 1)$  lies on line  $\ell_{11}$   
 399 :  $P_{87480} = (55, 21, 20, 1)$  lies on line  $\ell_{10}$   
 400 :  $P_{88312} = (55, 34, 20, 1)$  lies on line  $\ell_{13}$   
 401 :  $P_{88486} = (37, 37, 20, 1)$  lies on line  $\ell_7$   
 402 :  $P_{89071} = (46, 46, 20, 1)$  lies on line  $\ell_8$   
 403 :  $P_{89320} = (39, 50, 20, 1)$  lies on line  $\ell_{14}$   
 404 :  $P_{90187} = (10, 0, 21, 1)$  lies on line  $\ell_3$   
 405 :  $P_{90214} = (37, 0, 21, 1)$  lies on line  $\ell_4$   
 406 :  $P_{90223} = (46, 0, 21, 1)$  lies on line  $\ell_5$   
 407 :  $P_{90644} = (19, 7, 21, 1)$  lies on line  $\ell_{13}$   
 408 :  $P_{90827} = (10, 10, 21, 1)$  lies on line  $\ell_6$   
 409 :  $P_{91099} = (26, 14, 21, 1)$  lies on line  $\ell_{12}$   
 410 :  $P_{91465} = (8, 20, 21, 1)$  lies on line  $\ell_{11}$   
 411 :  $P_{91476} = (19, 20, 21, 1)$  lies on line  $\ell_{10}$   
 412 :  $P_{91483} = (26, 20, 21, 1)$  lies on line  $\ell_9$   
 413 :  $P_{91977} = (8, 28, 21, 1)$  lies on line  $\ell_{14}$   
 414 :  $P_{92582} = (37, 37, 21, 1)$  lies on line  $\ell_7$   
 415 :  $P_{93167} = (46, 46, 21, 1)$  lies on line  $\ell_8$   
 416 :  $P_{94283} = (10, 0, 22, 1)$  lies on line  $\ell_3$   
 417 :  $P_{94310} = (37, 0, 22, 1)$  lies on line  $\ell_4$   
 418 :  $P_{94319} = (46, 0, 22, 1)$  lies on line  $\ell_5$   
 419 :  $P_{94879} = (30, 9, 22, 1)$  lies on line  $\ell_{13}$   
 420 :  $P_{94923} = (10, 10, 22, 1)$  lies on line  $\ell_6$   
 421 :  $P_{95257} = (24, 15, 22, 1)$  lies on line  $\ell_{14}$   
 422 :  $P_{95304} = (7, 16, 22, 1)$  lies on line  $\ell_{12}$   
 423 :  $P_{95752} = (7, 23, 22, 1)$  lies on line  $\ell_9$   
 424 :  $P_{95769} = (24, 23, 22, 1)$  lies on line  $\ell_{11}$   
 425 :  $P_{95775} = (30, 23, 22, 1)$  lies on line  $\ell_{10}$   
 426 :  $P_{96678} = (37, 37, 22, 1)$  lies on line  $\ell_7$   
 427 :  $P_{97263} = (46, 46, 22, 1)$  lies on line  $\ell_8$   
 428 :  $P_{98379} = (10, 0, 23, 1)$  lies on line  $\ell_3$   
 429 :  $P_{98406} = (37, 0, 23, 1)$  lies on line  $\ell_4$   
 430 :  $P_{98415} = (46, 0, 23, 1)$  lies on line  $\ell_5$   
 431 :  $P_{99019} = (10, 10, 23, 1)$  lies on line  $\ell_6$   
 432 :  $P_{99789} = (12, 22, 23, 1)$  lies on line  $\ell_9$   
 433 :  $P_{99832} = (55, 22, 23, 1)$  lies on line  $\ell_{11}$   
 434 :  $P_{99835} = (58, 22, 23, 1)$  lies on line  $\ell_{10}$   
 435 :  $P_{100045} = (12, 26, 23, 1)$  lies on line  $\ell_{12}$   
 436 :  $P_{100536} = (55, 33, 23, 1)$  lies on line  $\ell_{14}$   
 437 :  $P_{100774} = (37, 37, 23, 1)$  lies on line  $\ell_7$

438 :  $P_{101243} = (58, 44, 23, 1)$  lies on line  $\ell_{13}$   
 439 :  $P_{101359} = (46, 46, 23, 1)$  lies on line  $\ell_8$   
 440 :  $P_{102475} = (10, 0, 24, 1)$  lies on line  $\ell_3$   
 441 :  $P_{102502} = (37, 0, 24, 1)$  lies on line  $\ell_4$   
 442 :  $P_{102511} = (46, 0, 24, 1)$  lies on line  $\ell_5$   
 443 :  $P_{103115} = (10, 10, 24, 1)$  lies on line  $\ell_6$   
 444 :  $P_{104068} = (3, 25, 24, 1)$  lies on line  $\ell_{10}$   
 445 :  $P_{104069} = (4, 25, 24, 1)$  lies on line  $\ell_9$   
 446 :  $P_{104071} = (6, 25, 24, 1)$  lies on line  $\ell_{11}$   
 447 :  $P_{104132} = (3, 26, 24, 1)$  lies on line  $\ell_{13}$   
 448 :  $P_{104325} = (4, 29, 24, 1)$  lies on line  $\ell_{12}$   
 449 :  $P_{104455} = (6, 31, 24, 1)$  lies on line  $\ell_{14}$   
 450 :  $P_{104870} = (37, 37, 24, 1)$  lies on line  $\ell_7$   
 451 :  $P_{105455} = (46, 46, 24, 1)$  lies on line  $\ell_8$   
 452 :  $P_{106571} = (10, 0, 25, 1)$  lies on line  $\ell_3$   
 453 :  $P_{106598} = (37, 0, 25, 1)$  lies on line  $\ell_4$   
 454 :  $P_{106607} = (46, 0, 25, 1)$  lies on line  $\ell_5$   
 455 :  $P_{107211} = (10, 10, 25, 1)$  lies on line  $\ell_6$   
 456 :  $P_{108048} = (15, 23, 25, 1)$  lies on line  $\ell_{12}$   
 457 :  $P_{108112} = (15, 24, 25, 1)$  lies on line  $\ell_9$   
 458 :  $P_{108136} = (39, 24, 25, 1)$  lies on line  $\ell_{10}$   
 459 :  $P_{108138} = (41, 24, 25, 1)$  lies on line  $\ell_{11}$   
 460 :  $P_{108966} = (37, 37, 25, 1)$  lies on line  $\ell_7$   
 461 :  $P_{109551} = (46, 46, 25, 1)$  lies on line  $\ell_8$   
 462 :  $P_{109738} = (41, 49, 25, 1)$  lies on line  $\ell_{14}$   
 463 :  $P_{110632} = (39, 63, 25, 1)$  lies on line  $\ell_{13}$   
 464 :  $P_{110667} = (10, 0, 26, 1)$  lies on line  $\ell_3$   
 465 :  $P_{110694} = (37, 0, 26, 1)$  lies on line  $\ell_4$   
 466 :  $P_{110703} = (46, 0, 26, 1)$  lies on line  $\ell_5$   
 467 :  $P_{111251} = (18, 9, 26, 1)$  lies on line  $\ell_{12}$   
 468 :  $P_{111307} = (10, 10, 26, 1)$  lies on line  $\ell_6$   
 469 :  $P_{112403} = (18, 27, 26, 1)$  lies on line  $\ell_9$   
 470 :  $P_{112427} = (42, 27, 26, 1)$  lies on line  $\ell_{10}$   
 471 :  $P_{112442} = (57, 27, 26, 1)$  lies on line  $\ell_{11}$   
 472 :  $P_{112890} = (57, 34, 26, 1)$  lies on line  $\ell_{14}$   
 473 :  $P_{113062} = (37, 37, 26, 1)$  lies on line  $\ell_7$   
 474 :  $P_{113647} = (46, 46, 26, 1)$  lies on line  $\ell_8$   
 475 :  $P_{113835} = (42, 49, 26, 1)$  lies on line  $\ell_{13}$   
 476 :  $P_{114763} = (10, 0, 27, 1)$  lies on line  $\ell_3$   
 477 :  $P_{114790} = (37, 0, 27, 1)$  lies on line  $\ell_4$   
 478 :  $P_{114799} = (46, 0, 27, 1)$  lies on line  $\ell_5$   
 479 :  $P_{114970} = (25, 3, 27, 1)$  lies on line  $\ell_{12}$   
 480 :  $P_{115403} = (10, 10, 27, 1)$  lies on line  $\ell_6$   
 481 :  $P_{115543} = (22, 12, 27, 1)$  lies on line  $\ell_{14}$   
 482 :  $P_{116047} = (14, 20, 27, 1)$  lies on line  $\ell_{13}$   
 483 :  $P_{116431} = (14, 26, 27, 1)$  lies on line  $\ell_{10}$   
 484 :  $P_{116439} = (22, 26, 27, 1)$  lies on line  $\ell_{11}$   
 485 :  $P_{116442} = (25, 26, 27, 1)$  lies on line  $\ell_9$   
 486 :  $P_{117158} = (37, 37, 27, 1)$  lies on line  $\ell_7$   
 487 :  $P_{117743} = (46, 46, 27, 1)$  lies on line  $\ell_8$   
 488 :  $P_{118859} = (10, 0, 28, 1)$  lies on line  $\ell_3$   
 489 :  $P_{118886} = (37, 0, 28, 1)$  lies on line  $\ell_4$   
 490 :  $P_{118895} = (46, 0, 28, 1)$  lies on line  $\ell_5$   
 491 :  $P_{119130} = (25, 4, 28, 1)$  lies on line  $\ell_{14}$

492 :  $P_{119499} = (10, 10, 28, 1)$  lies on line  $\ell_6$   
 493 :  $P_{120730} = (25, 29, 28, 1)$  lies on line  $\ell_{11}$   
 494 :  $P_{120745} = (40, 29, 28, 1)$  lies on line  $\ell_9$   
 495 :  $P_{120753} = (48, 29, 28, 1)$  lies on line  $\ell_{10}$   
 496 :  $P_{121254} = (37, 37, 28, 1)$  lies on line  $\ell_7$   
 497 :  $P_{121777} = (48, 45, 28, 1)$  lies on line  $\ell_{13}$   
 498 :  $P_{121839} = (46, 46, 28, 1)$  lies on line  $\ell_8$   
 499 :  $P_{122281} = (40, 53, 28, 1)$  lies on line  $\ell_{12}$   
 500 :  $P_{122955} = (10, 0, 29, 1)$  lies on line  $\ell_3$   
 501 :  $P_{122982} = (37, 0, 29, 1)$  lies on line  $\ell_4$   
 502 :  $P_{122991} = (46, 0, 29, 1)$  lies on line  $\ell_5$   
 503 :  $P_{123477} = (20, 8, 29, 1)$  lies on line  $\ell_{13}$   
 504 :  $P_{123595} = (10, 10, 29, 1)$  lies on line  $\ell_6$   
 505 :  $P_{124757} = (20, 28, 29, 1)$  lies on line  $\ell_{10}$   
 506 :  $P_{124772} = (35, 28, 29, 1)$  lies on line  $\ell_9$   
 507 :  $P_{124791} = (54, 28, 29, 1)$  lies on line  $\ell_{11}$   
 508 :  $P_{125350} = (37, 37, 29, 1)$  lies on line  $\ell_7$   
 509 :  $P_{125687} = (54, 42, 29, 1)$  lies on line  $\ell_{14}$   
 510 :  $P_{125935} = (46, 46, 29, 1)$  lies on line  $\ell_8$   
 511 :  $P_{127012} = (35, 63, 29, 1)$  lies on line  $\ell_{12}$   
 512 :  $P_{127051} = (10, 0, 30, 1)$  lies on line  $\ell_3$   
 513 :  $P_{127078} = (37, 0, 30, 1)$  lies on line  $\ell_4$   
 514 :  $P_{127087} = (46, 0, 30, 1)$  lies on line  $\ell_5$   
 515 :  $P_{127450} = (25, 6, 30, 1)$  lies on line  $\ell_{13}$   
 516 :  $P_{127691} = (10, 10, 30, 1)$  lies on line  $\ell_6$   
 517 :  $P_{129050} = (25, 31, 30, 1)$  lies on line  $\ell_{10}$   
 518 :  $P_{129063} = (38, 31, 30, 1)$  lies on line  $\ell_{11}$   
 519 :  $P_{129087} = (62, 31, 30, 1)$  lies on line  $\ell_9$   
 520 :  $P_{129215} = (62, 33, 30, 1)$  lies on line  $\ell_{12}$   
 521 :  $P_{129446} = (37, 37, 30, 1)$  lies on line  $\ell_7$   
 522 :  $P_{130031} = (46, 46, 30, 1)$  lies on line  $\ell_8$   
 523 :  $P_{130727} = (38, 57, 30, 1)$  lies on line  $\ell_{14}$   
 524 :  $P_{131147} = (10, 0, 31, 1)$  lies on line  $\ell_3$   
 525 :  $P_{131174} = (37, 0, 31, 1)$  lies on line  $\ell_4$   
 526 :  $P_{131183} = (46, 0, 31, 1)$  lies on line  $\ell_5$   
 527 :  $P_{131787} = (10, 10, 31, 1)$  lies on line  $\ell_6$   
 528 :  $P_{132618} = (9, 23, 31, 1)$  lies on line  $\ell_{14}$   
 529 :  $P_{133066} = (9, 30, 31, 1)$  lies on line  $\ell_{11}$   
 530 :  $P_{133110} = (53, 30, 31, 1)$  lies on line  $\ell_9$   
 531 :  $P_{133118} = (61, 30, 31, 1)$  lies on line  $\ell_{10}$   
 532 :  $P_{133438} = (61, 35, 31, 1)$  lies on line  $\ell_{13}$   
 533 :  $P_{133542} = (37, 37, 31, 1)$  lies on line  $\ell_7$   
 534 :  $P_{133942} = (53, 43, 31, 1)$  lies on line  $\ell_{12}$   
 535 :  $P_{134127} = (46, 46, 31, 1)$  lies on line  $\ell_8$   
 536 :  $P_{135243} = (10, 0, 32, 1)$  lies on line  $\ell_3$   
 537 :  $P_{135270} = (37, 0, 32, 1)$  lies on line  $\ell_4$   
 538 :  $P_{135279} = (46, 0, 32, 1)$  lies on line  $\ell_5$   
 539 :  $P_{135883} = (10, 10, 32, 1)$  lies on line  $\ell_6$   
 540 :  $P_{137353} = (8, 33, 32, 1)$  lies on line  $\ell_9$   
 541 :  $P_{137367} = (22, 33, 32, 1)$  lies on line  $\ell_{10}$   
 542 :  $P_{137376} = (31, 33, 32, 1)$  lies on line  $\ell_{11}$   
 543 :  $P_{137638} = (37, 37, 32, 1)$  lies on line  $\ell_7$   
 544 :  $P_{137865} = (8, 41, 32, 1)$  lies on line  $\ell_{12}$   
 545 :  $P_{138223} = (46, 46, 32, 1)$  lies on line  $\ell_8$

546 :  $P_{138775} = (22, 55, 32, 1)$  lies on line  $\ell_{13}$   
 547 :  $P_{139232} = (31, 62, 32, 1)$  lies on line  $\ell_{14}$   
 548 :  $P_{139339} = (10, 0, 33, 1)$  lies on line  $\ell_3$   
 549 :  $P_{139366} = (37, 0, 33, 1)$  lies on line  $\ell_4$   
 550 :  $P_{139375} = (46, 0, 33, 1)$  lies on line  $\ell_5$   
 551 :  $P_{139979} = (10, 10, 33, 1)$  lies on line  $\ell_6$   
 552 :  $P_{140401} = (48, 16, 33, 1)$  lies on line  $\ell_{14}$   
 553 :  $P_{140531} = (50, 18, 33, 1)$  lies on line  $\ell_{13}$   
 554 :  $P_{141380} = (3, 32, 33, 1)$  lies on line  $\ell_9$   
 555 :  $P_{141425} = (48, 32, 33, 1)$  lies on line  $\ell_{11}$   
 556 :  $P_{141427} = (50, 32, 33, 1)$  lies on line  $\ell_{10}$   
 557 :  $P_{141572} = (3, 35, 33, 1)$  lies on line  $\ell_{12}$   
 558 :  $P_{141734} = (37, 37, 33, 1)$  lies on line  $\ell_7$   
 559 :  $P_{142319} = (46, 46, 33, 1)$  lies on line  $\ell_8$   
 560 :  $P_{143435} = (10, 0, 34, 1)$  lies on line  $\ell_3$   
 561 :  $P_{143462} = (37, 0, 34, 1)$  lies on line  $\ell_4$   
 562 :  $P_{143471} = (46, 0, 34, 1)$  lies on line  $\ell_5$   
 563 :  $P_{143649} = (32, 3, 34, 1)$  lies on line  $\ell_{14}$   
 564 :  $P_{144075} = (10, 10, 34, 1)$  lies on line  $\ell_6$   
 565 :  $P_{145280} = (63, 28, 34, 1)$  lies on line  $\ell_{13}$   
 566 :  $P_{145695} = (30, 35, 34, 1)$  lies on line  $\ell_9$   
 567 :  $P_{145697} = (32, 35, 34, 1)$  lies on line  $\ell_{11}$   
 568 :  $P_{145728} = (63, 35, 34, 1)$  lies on line  $\ell_{10}$   
 569 :  $P_{145830} = (37, 37, 34, 1)$  lies on line  $\ell_7$   
 570 :  $P_{146415} = (46, 46, 34, 1)$  lies on line  $\ell_8$   
 571 :  $P_{147359} = (30, 61, 34, 1)$  lies on line  $\ell_{12}$   
 572 :  $P_{147531} = (10, 0, 35, 1)$  lies on line  $\ell_3$   
 573 :  $P_{147558} = (37, 0, 35, 1)$  lies on line  $\ell_4$   
 574 :  $P_{147567} = (46, 0, 35, 1)$  lies on line  $\ell_5$   
 575 :  $P_{148171} = (10, 10, 35, 1)$  lies on line  $\ell_6$   
 576 :  $P_{149712} = (15, 34, 35, 1)$  lies on line  $\ell_{11}$   
 577 :  $P_{149718} = (21, 34, 35, 1)$  lies on line  $\ell_9$   
 578 :  $P_{149724} = (27, 34, 35, 1)$  lies on line  $\ell_{10}$   
 579 :  $P_{149926} = (37, 37, 35, 1)$  lies on line  $\ell_7$   
 580 :  $P_{150416} = (15, 45, 35, 1)$  lies on line  $\ell_{14}$   
 581 :  $P_{150511} = (46, 46, 35, 1)$  lies on line  $\ell_8$   
 582 :  $P_{151062} = (21, 55, 35, 1)$  lies on line  $\ell_{12}$   
 583 :  $P_{151196} = (27, 57, 35, 1)$  lies on line  $\ell_{13}$   
 584 :  $P_{151627} = (10, 0, 36, 1)$  lies on line  $\ell_3$   
 585 :  $P_{151663} = (46, 0, 36, 1)$  lies on line  $\ell_5$   
 586 :  $P_{151717} = (36, 1, 36, 1)$  lies on line  $\ell_{12}$   
 587 :  $P_{152267} = (10, 10, 36, 1)$  lies on line  $\ell_6$   
 588 :  $P_{154021} = (36, 37, 36, 1)$  lies on line  $\ell_9$   
 589 :  $P_{154607} = (46, 46, 36, 1)$  lies on line  $\ell_8$   
 590 :  $P_{155723} = (10, 0, 37, 1)$  lies on line  $\ell_3$   
 591 :  $P_{155750} = (37, 0, 37, 1)$  lies on line  $\ell_4$   
 592 :  $P_{155759} = (46, 0, 37, 1)$  lies on line  $\ell_5$   
 593 :  $P_{156363} = (10, 10, 37, 1)$  lies on line  $\ell_6$   
 594 :  $P_{158018} = (1, 36, 37, 1)$  lies on line  $\ell_{10}$   
 595 :  $P_{158082} = (1, 37, 37, 1)$  lies on line  $\ell_{13}$   
 596 :  $P_{158118} = (37, 37, 37, 1)$  lies on line  $\ell_7$   
 597 :  $P_{158703} = (46, 46, 37, 1)$  lies on line  $\ell_8$   
 598 :  $P_{159819} = (10, 0, 38, 1)$  lies on line  $\ell_3$   
 599 :  $P_{159846} = (37, 0, 38, 1)$  lies on line  $\ell_4$



600 :  $P_{159855} = (46, 0, 38, 1)$  lies on line  $\ell_5$   
 601 :  $P_{160459} = (10, 10, 38, 1)$  lies on line  $\ell_6$   
 602 :  $P_{161203} = (50, 21, 38, 1)$  lies on line  $\ell_{12}$   
 603 :  $P_{161408} = (63, 24, 38, 1)$  lies on line  $\ell_{14}$   
 604 :  $P_{162214} = (37, 37, 38, 1)$  lies on line  $\ell_7$   
 605 :  $P_{162317} = (12, 39, 38, 1)$  lies on line  $\ell_{10}$   
 606 :  $P_{162355} = (50, 39, 38, 1)$  lies on line  $\ell_9$   
 607 :  $P_{162368} = (63, 39, 38, 1)$  lies on line  $\ell_{11}$   
 608 :  $P_{162573} = (12, 43, 38, 1)$  lies on line  $\ell_{13}$   
 609 :  $P_{162799} = (46, 46, 38, 1)$  lies on line  $\ell_8$   
 610 :  $P_{163915} = (10, 0, 39, 1)$  lies on line  $\ell_3$   
 611 :  $P_{163942} = (37, 0, 39, 1)$  lies on line  $\ell_4$   
 612 :  $P_{163951} = (46, 0, 39, 1)$  lies on line  $\ell_5$   
 613 :  $P_{164555} = (10, 10, 39, 1)$  lies on line  $\ell_6$   
 614 :  $P_{164841} = (40, 14, 39, 1)$  lies on line  $\ell_{13}$   
 615 :  $P_{165946} = (57, 31, 39, 1)$  lies on line  $\ell_{12}$   
 616 :  $P_{166310} = (37, 37, 39, 1)$  lies on line  $\ell_7$   
 617 :  $P_{166353} = (16, 38, 39, 1)$  lies on line  $\ell_{11}$   
 618 :  $P_{166377} = (40, 38, 39, 1)$  lies on line  $\ell_{10}$   
 619 :  $P_{166394} = (57, 38, 39, 1)$  lies on line  $\ell_9$   
 620 :  $P_{166895} = (46, 46, 39, 1)$  lies on line  $\ell_8$   
 621 :  $P_{167377} = (16, 54, 39, 1)$  lies on line  $\ell_{14}$   
 622 :  $P_{168011} = (10, 0, 40, 1)$  lies on line  $\ell_3$   
 623 :  $P_{168038} = (37, 0, 40, 1)$  lies on line  $\ell_4$   
 624 :  $P_{168047} = (46, 0, 40, 1)$  lies on line  $\ell_5$   
 625 :  $P_{168546} = (33, 8, 40, 1)$  lies on line  $\ell_{14}$   
 626 :  $P_{168651} = (10, 10, 40, 1)$  lies on line  $\ell_6$   
 627 :  $P_{169586} = (49, 24, 40, 1)$  lies on line  $\ell_{12}$   
 628 :  $P_{170406} = (37, 37, 40, 1)$  lies on line  $\ell_7$   
 629 :  $P_{170642} = (17, 41, 40, 1)$  lies on line  $\ell_{10}$   
 630 :  $P_{170658} = (33, 41, 40, 1)$  lies on line  $\ell_{11}$   
 631 :  $P_{170674} = (49, 41, 40, 1)$  lies on line  $\ell_9$   
 632 :  $P_{170991} = (46, 46, 40, 1)$  lies on line  $\ell_8$   
 633 :  $P_{171602} = (17, 56, 40, 1)$  lies on line  $\ell_{13}$   
 634 :  $P_{172107} = (10, 0, 41, 1)$  lies on line  $\ell_3$   
 635 :  $P_{172134} = (37, 0, 41, 1)$  lies on line  $\ell_4$   
 636 :  $P_{172143} = (46, 0, 41, 1)$  lies on line  $\ell_5$   
 637 :  $P_{172747} = (10, 10, 41, 1)$  lies on line  $\ell_6$   
 638 :  $P_{173307} = (58, 18, 41, 1)$  lies on line  $\ell_{12}$   
 639 :  $P_{174006} = (53, 29, 41, 1)$  lies on line  $\ell_{13}$   
 640 :  $P_{174502} = (37, 37, 41, 1)$  lies on line  $\ell_7$   
 641 :  $P_{174543} = (14, 38, 41, 1)$  lies on line  $\ell_{14}$   
 642 :  $P_{174671} = (14, 40, 41, 1)$  lies on line  $\ell_{11}$   
 643 :  $P_{174710} = (53, 40, 41, 1)$  lies on line  $\ell_{10}$   
 644 :  $P_{174715} = (58, 40, 41, 1)$  lies on line  $\ell_9$   
 645 :  $P_{175087} = (46, 46, 41, 1)$  lies on line  $\ell_8$   
 646 :  $P_{176203} = (10, 0, 42, 1)$  lies on line  $\ell_3$   
 647 :  $P_{176230} = (37, 0, 42, 1)$  lies on line  $\ell_4$   
 648 :  $P_{176239} = (46, 0, 42, 1)$  lies on line  $\ell_5$   
 649 :  $P_{176843} = (10, 10, 42, 1)$  lies on line  $\ell_6$   
 650 :  $P_{177000} = (39, 12, 42, 1)$  lies on line  $\ell_{12}$   
 651 :  $P_{177465} = (56, 19, 42, 1)$  lies on line  $\ell_{13}$   
 652 :  $P_{178598} = (37, 37, 42, 1)$  lies on line  $\ell_7$   
 653 :  $P_{178975} = (30, 43, 42, 1)$  lies on line  $\ell_{11}$

654 :  $P_{178984} = (39, 43, 42, 1)$  lies on line  $\ell_9$   
 655 :  $P_{179001} = (56, 43, 42, 1)$  lies on line  $\ell_{10}$   
 656 :  $P_{179183} = (46, 46, 42, 1)$  lies on line  $\ell_8$   
 657 :  $P_{179615} = (30, 53, 42, 1)$  lies on line  $\ell_{14}$   
 658 :  $P_{180299} = (10, 0, 43, 1)$  lies on line  $\ell_3$   
 659 :  $P_{180326} = (37, 0, 43, 1)$  lies on line  $\ell_4$   
 660 :  $P_{180335} = (46, 0, 43, 1)$  lies on line  $\ell_5$   
 661 :  $P_{180717} = (44, 6, 43, 1)$  lies on line  $\ell_{12}$   
 662 :  $P_{180939} = (10, 10, 43, 1)$  lies on line  $\ell_6$   
 663 :  $P_{182066} = (49, 27, 43, 1)$  lies on line  $\ell_{14}$   
 664 :  $P_{182694} = (37, 37, 43, 1)$  lies on line  $\ell_7$   
 665 :  $P_{183005} = (28, 42, 43, 1)$  lies on line  $\ell_{10}$   
 666 :  $P_{183021} = (44, 42, 43, 1)$  lies on line  $\ell_9$   
 667 :  $P_{183026} = (49, 42, 43, 1)$  lies on line  $\ell_{11}$   
 668 :  $P_{183279} = (46, 46, 43, 1)$  lies on line  $\ell_8$   
 669 :  $P_{183773} = (28, 54, 43, 1)$  lies on line  $\ell_{13}$   
 670 :  $P_{184395} = (10, 0, 44, 1)$  lies on line  $\ell_3$   
 671 :  $P_{184422} = (37, 0, 44, 1)$  lies on line  $\ell_4$   
 672 :  $P_{184431} = (46, 0, 44, 1)$  lies on line  $\ell_5$   
 673 :  $P_{185035} = (10, 10, 44, 1)$  lies on line  $\ell_6$   
 674 :  $P_{185379} = (34, 15, 44, 1)$  lies on line  $\ell_{13}$   
 675 :  $P_{185663} = (62, 19, 44, 1)$  lies on line  $\ell_{14}$   
 676 :  $P_{186790} = (37, 37, 44, 1)$  lies on line  $\ell_7$   
 677 :  $P_{187294} = (29, 45, 44, 1)$  lies on line  $\ell_9$   
 678 :  $P_{187299} = (34, 45, 44, 1)$  lies on line  $\ell_{10}$   
 679 :  $P_{187327} = (62, 45, 44, 1)$  lies on line  $\ell_{11}$   
 680 :  $P_{187375} = (46, 46, 44, 1)$  lies on line  $\ell_8$   
 681 :  $P_{187486} = (29, 48, 44, 1)$  lies on line  $\ell_{12}$   
 682 :  $P_{188491} = (10, 0, 45, 1)$  lies on line  $\ell_3$   
 683 :  $P_{188518} = (37, 0, 45, 1)$  lies on line  $\ell_4$   
 684 :  $P_{188527} = (46, 0, 45, 1)$  lies on line  $\ell_5$   
 685 :  $P_{189131} = (10, 10, 45, 1)$  lies on line  $\ell_6$   
 686 :  $P_{190886} = (37, 37, 45, 1)$  lies on line  $\ell_7$   
 687 :  $P_{191175} = (6, 42, 45, 1)$  lies on line  $\ell_{13}$   
 688 :  $P_{191303} = (6, 44, 45, 1)$  lies on line  $\ell_{10}$   
 689 :  $P_{191314} = (17, 44, 45, 1)$  lies on line  $\ell_{11}$   
 690 :  $P_{191319} = (22, 44, 45, 1)$  lies on line  $\ell_9$   
 691 :  $P_{191471} = (46, 46, 45, 1)$  lies on line  $\ell_8$   
 692 :  $P_{192215} = (22, 58, 45, 1)$  lies on line  $\ell_{12}$   
 693 :  $P_{192402} = (17, 61, 45, 1)$  lies on line  $\ell_{14}$   
 694 :  $P_{192587} = (10, 0, 46, 1)$  lies on line  $\ell_3$   
 695 :  $P_{192614} = (37, 0, 46, 1)$  lies on line  $\ell_4$   
 696 :  $P_{192623} = (46, 0, 46, 1)$  lies on line  $\ell_5$   
 697 :  $P_{193227} = (10, 10, 46, 1)$  lies on line  $\ell_6$   
 698 :  $P_{194982} = (37, 37, 46, 1)$  lies on line  $\ell_7$   
 699 :  $P_{195522} = (1, 46, 46, 1)$  lies on line  $\ell_{14}$   
 700 :  $P_{195567} = (46, 46, 46, 1)$  lies on line  $\ell_8$   
 701 :  $P_{195586} = (1, 47, 46, 1)$  lies on line  $\ell_{11}$   
 702 :  $P_{196683} = (10, 0, 47, 1)$  lies on line  $\ell_3$   
 703 :  $P_{196710} = (37, 0, 47, 1)$  lies on line  $\ell_4$   
 704 :  $P_{196784} = (47, 1, 47, 1)$  lies on line  $\ell_{13}$   
 705 :  $P_{197323} = (10, 10, 47, 1)$  lies on line  $\ell_6$   
 706 :  $P_{199078} = (37, 37, 47, 1)$  lies on line  $\ell_7$   
 707 :  $P_{199664} = (47, 46, 47, 1)$  lies on line  $\ell_{10}$

708 :  $P_{200779} = (10, 0, 48, 1)$  lies on line  $\ell_3$   
 709 :  $P_{200806} = (37, 0, 48, 1)$  lies on line  $\ell_4$   
 710 :  $P_{200815} = (46, 0, 48, 1)$  lies on line  $\ell_5$   
 711 :  $P_{201419} = (10, 10, 48, 1)$  lies on line  $\ell_6$   
 712 :  $P_{203174} = (37, 37, 48, 1)$  lies on line  $\ell_7$   
 713 :  $P_{203417} = (24, 41, 48, 1)$  lies on line  $\ell_{13}$   
 714 :  $P_{203484} = (27, 42, 48, 1)$  lies on line  $\ell_{12}$   
 715 :  $P_{203759} = (46, 46, 48, 1)$  lies on line  $\ell_8$   
 716 :  $P_{203907} = (2, 49, 48, 1)$  lies on line  $\ell_{11}$   
 717 :  $P_{203929} = (24, 49, 48, 1)$  lies on line  $\ell_{10}$   
 718 :  $P_{203932} = (27, 49, 48, 1)$  lies on line  $\ell_9$   
 719 :  $P_{204035} = (2, 51, 48, 1)$  lies on line  $\ell_{14}$   
 720 :  $P_{204875} = (10, 0, 49, 1)$  lies on line  $\ell_3$   
 721 :  $P_{204902} = (37, 0, 49, 1)$  lies on line  $\ell_4$   
 722 :  $P_{204911} = (46, 0, 49, 1)$  lies on line  $\ell_5$   
 723 :  $P_{205515} = (10, 10, 49, 1)$  lies on line  $\ell_6$   
 724 :  $P_{205693} = (60, 12, 49, 1)$  lies on line  $\ell_{13}$   
 725 :  $P_{206766} = (45, 29, 49, 1)$  lies on line  $\ell_{14}$   
 726 :  $P_{206929} = (16, 32, 49, 1)$  lies on line  $\ell_{12}$   
 727 :  $P_{207270} = (37, 37, 49, 1)$  lies on line  $\ell_7$   
 728 :  $P_{207855} = (46, 46, 49, 1)$  lies on line  $\ell_8$   
 729 :  $P_{207953} = (16, 48, 49, 1)$  lies on line  $\ell_9$   
 730 :  $P_{207982} = (45, 48, 49, 1)$  lies on line  $\ell_{11}$   
 731 :  $P_{207997} = (60, 48, 49, 1)$  lies on line  $\ell_{10}$   
 732 :  $P_{208971} = (10, 0, 50, 1)$  lies on line  $\ell_3$   
 733 :  $P_{208998} = (37, 0, 50, 1)$  lies on line  $\ell_4$   
 734 :  $P_{209007} = (46, 0, 50, 1)$  lies on line  $\ell_5$   
 735 :  $P_{209138} = (49, 2, 50, 1)$  lies on line  $\ell_{13}$   
 736 :  $P_{209611} = (10, 10, 50, 1)$  lies on line  $\ell_6$   
 737 :  $P_{209918} = (61, 14, 50, 1)$  lies on line  $\ell_{14}$   
 738 :  $P_{211366} = (37, 37, 50, 1)$  lies on line  $\ell_7$   
 739 :  $P_{211951} = (46, 46, 50, 1)$  lies on line  $\ell_8$   
 740 :  $P_{212238} = (13, 51, 50, 1)$  lies on line  $\ell_9$   
 741 :  $P_{212274} = (49, 51, 50, 1)$  lies on line  $\ell_{10}$   
 742 :  $P_{212286} = (61, 51, 50, 1)$  lies on line  $\ell_{11}$   
 743 :  $P_{212942} = (13, 62, 50, 1)$  lies on line  $\ell_{12}$   
 744 :  $P_{213067} = (10, 0, 51, 1)$  lies on line  $\ell_3$   
 745 :  $P_{213094} = (37, 0, 51, 1)$  lies on line  $\ell_4$   
 746 :  $P_{213103} = (46, 0, 51, 1)$  lies on line  $\ell_5$   
 747 :  $P_{213707} = (10, 10, 51, 1)$  lies on line  $\ell_6$   
 748 :  $P_{215123} = (18, 32, 51, 1)$  lies on line  $\ell_{14}$   
 749 :  $P_{215462} = (37, 37, 51, 1)$  lies on line  $\ell_7$   
 750 :  $P_{215574} = (21, 39, 51, 1)$  lies on line  $\ell_{13}$   
 751 :  $P_{216047} = (46, 46, 51, 1)$  lies on line  $\ell_8$   
 752 :  $P_{216263} = (6, 50, 51, 1)$  lies on line  $\ell_9$   
 753 :  $P_{216275} = (18, 50, 51, 1)$  lies on line  $\ell_{11}$   
 754 :  $P_{216278} = (21, 50, 51, 1)$  lies on line  $\ell_{10}$   
 755 :  $P_{216391} = (6, 52, 51, 1)$  lies on line  $\ell_{12}$   
 756 :  $P_{217163} = (10, 0, 52, 1)$  lies on line  $\ell_3$   
 757 :  $P_{217190} = (37, 0, 52, 1)$  lies on line  $\ell_4$   
 758 :  $P_{217199} = (46, 0, 52, 1)$  lies on line  $\ell_5$   
 759 :  $P_{217336} = (55, 2, 52, 1)$  lies on line  $\ell_{12}$   
 760 :  $P_{217803} = (10, 10, 52, 1)$  lies on line  $\ell_6$   
 761 :  $P_{219116} = (43, 30, 52, 1)$  lies on line  $\ell_{13}$

762 :  $P_{219558} = (37, 37, 52, 1)$  lies on line  $\ell_7$   
 763 :  $P_{219742} = (29, 40, 52, 1)$  lies on line  $\ell_{14}$   
 764 :  $P_{220143} = (46, 46, 52, 1)$  lies on line  $\ell_8$   
 765 :  $P_{220574} = (29, 53, 52, 1)$  lies on line  $\ell_{11}$   
 766 :  $P_{220588} = (43, 53, 52, 1)$  lies on line  $\ell_{10}$   
 767 :  $P_{220600} = (55, 53, 52, 1)$  lies on line  $\ell_9$   
 768 :  $P_{221259} = (10, 0, 53, 1)$  lies on line  $\ell_3$   
 769 :  $P_{221286} = (37, 0, 53, 1)$  lies on line  $\ell_4$   
 770 :  $P_{221295} = (46, 0, 53, 1)$  lies on line  $\ell_5$   
 771 :  $P_{221683} = (50, 6, 53, 1)$  lies on line  $\ell_{14}$   
 772 :  $P_{221821} = (60, 8, 53, 1)$  lies on line  $\ell_{12}$   
 773 :  $P_{221899} = (10, 10, 53, 1)$  lies on line  $\ell_6$   
 774 :  $P_{223654} = (37, 37, 53, 1)$  lies on line  $\ell_7$   
 775 :  $P_{224239} = (46, 46, 53, 1)$  lies on line  $\ell_8$   
 776 :  $P_{224592} = (15, 52, 53, 1)$  lies on line  $\ell_{10}$   
 777 :  $P_{224627} = (50, 52, 53, 1)$  lies on line  $\ell_{11}$   
 778 :  $P_{224637} = (60, 52, 53, 1)$  lies on line  $\ell_9$   
 779 :  $P_{225040} = (15, 59, 53, 1)$  lies on line  $\ell_{13}$   
 780 :  $P_{225355} = (10, 0, 54, 1)$  lies on line  $\ell_3$   
 781 :  $P_{225382} = (37, 0, 54, 1)$  lies on line  $\ell_4$   
 782 :  $P_{225391} = (46, 0, 54, 1)$  lies on line  $\ell_5$   
 783 :  $P_{225995} = (10, 10, 54, 1)$  lies on line  $\ell_6$   
 784 :  $P_{226723} = (34, 21, 54, 1)$  lies on line  $\ell_{14}$   
 785 :  $P_{226786} = (33, 22, 54, 1)$  lies on line  $\ell_{12}$   
 786 :  $P_{227750} = (37, 37, 54, 1)$  lies on line  $\ell_7$   
 787 :  $P_{228335} = (46, 46, 54, 1)$  lies on line  $\ell_8$   
 788 :  $P_{228739} = (2, 53, 54, 1)$  lies on line  $\ell_{13}$   
 789 :  $P_{228867} = (2, 55, 54, 1)$  lies on line  $\ell_{10}$   
 790 :  $P_{228898} = (33, 55, 54, 1)$  lies on line  $\ell_9$   
 791 :  $P_{228899} = (34, 55, 54, 1)$  lies on line  $\ell_{11}$   
 792 :  $P_{229451} = (10, 0, 55, 1)$  lies on line  $\ell_3$   
 793 :  $P_{229478} = (37, 0, 55, 1)$  lies on line  $\ell_4$   
 794 :  $P_{229487} = (46, 0, 55, 1)$  lies on line  $\ell_5$   
 795 :  $P_{230091} = (10, 10, 55, 1)$  lies on line  $\ell_6$   
 796 :  $P_{230503} = (38, 16, 55, 1)$  lies on line  $\ell_{13}$   
 797 :  $P_{231275} = (42, 28, 55, 1)$  lies on line  $\ell_{12}$   
 798 :  $P_{231846} = (37, 37, 55, 1)$  lies on line  $\ell_7$   
 799 :  $P_{232431} = (46, 46, 55, 1)$  lies on line  $\ell_8$   
 800 :  $P_{232910} = (13, 54, 55, 1)$  lies on line  $\ell_{11}$   
 801 :  $P_{232935} = (38, 54, 55, 1)$  lies on line  $\ell_{10}$   
 802 :  $P_{232939} = (42, 54, 55, 1)$  lies on line  $\ell_9$   
 803 :  $P_{233230} = (13, 59, 55, 1)$  lies on line  $\ell_{14}$   
 804 :  $P_{233547} = (10, 0, 56, 1)$  lies on line  $\ell_3$   
 805 :  $P_{233574} = (37, 0, 56, 1)$  lies on line  $\ell_4$   
 806 :  $P_{233583} = (46, 0, 56, 1)$  lies on line  $\ell_5$   
 807 :  $P_{233917} = (60, 5, 56, 1)$  lies on line  $\ell_{14}$   
 808 :  $P_{234187} = (10, 10, 56, 1)$  lies on line  $\ell_6$   
 809 :  $P_{235299} = (34, 27, 56, 1)$  lies on line  $\ell_{12}$   
 810 :  $P_{235942} = (37, 37, 56, 1)$  lies on line  $\ell_7$   
 811 :  $P_{236000} = (31, 38, 56, 1)$  lies on line  $\ell_{13}$   
 812 :  $P_{236527} = (46, 46, 56, 1)$  lies on line  $\ell_8$   
 813 :  $P_{237216} = (31, 57, 56, 1)$  lies on line  $\ell_{10}$   
 814 :  $P_{237219} = (34, 57, 56, 1)$  lies on line  $\ell_9$   
 815 :  $P_{237245} = (60, 57, 56, 1)$  lies on line  $\ell_{11}$

816 :  $P_{237643} = (10, 0, 57, 1)$  lies on line  $\ell_3$   
 817 :  $P_{237670} = (37, 0, 57, 1)$  lies on line  $\ell_4$   
 818 :  $P_{237679} = (46, 0, 57, 1)$  lies on line  $\ell_5$   
 819 :  $P_{237884} = (59, 3, 57, 1)$  lies on line  $\ell_{13}$   
 820 :  $P_{238283} = (10, 10, 57, 1)$  lies on line  $\ell_6$   
 821 :  $P_{238762} = (41, 17, 57, 1)$  lies on line  $\ell_{12}$   
 822 :  $P_{240038} = (37, 37, 57, 1)$  lies on line  $\ell_7$   
 823 :  $P_{240404} = (19, 43, 57, 1)$  lies on line  $\ell_{14}$   
 824 :  $P_{240623} = (46, 46, 57, 1)$  lies on line  $\ell_8$   
 825 :  $P_{241236} = (19, 56, 57, 1)$  lies on line  $\ell_{11}$   
 826 :  $P_{241258} = (41, 56, 57, 1)$  lies on line  $\ell_9$   
 827 :  $P_{241276} = (59, 56, 57, 1)$  lies on line  $\ell_{10}$   
 828 :  $P_{241739} = (10, 0, 58, 1)$  lies on line  $\ell_3$   
 829 :  $P_{241766} = (37, 0, 58, 1)$  lies on line  $\ell_4$   
 830 :  $P_{241775} = (46, 0, 58, 1)$  lies on line  $\ell_5$   
 831 :  $P_{242379} = (10, 10, 58, 1)$  lies on line  $\ell_6$   
 832 :  $P_{242615} = (54, 13, 58, 1)$  lies on line  $\ell_{13}$   
 833 :  $P_{242741} = (52, 15, 58, 1)$  lies on line  $\ell_{12}$   
 834 :  $P_{244134} = (37, 37, 58, 1)$  lies on line  $\ell_7$   
 835 :  $P_{244719} = (46, 46, 58, 1)$  lies on line  $\ell_8$   
 836 :  $P_{245316} = (3, 56, 58, 1)$  lies on line  $\ell_{14}$   
 837 :  $P_{245508} = (3, 59, 58, 1)$  lies on line  $\ell_{11}$   
 838 :  $P_{245557} = (52, 59, 58, 1)$  lies on line  $\ell_9$   
 839 :  $P_{245559} = (54, 59, 58, 1)$  lies on line  $\ell_{10}$   
 840 :  $P_{245835} = (10, 0, 59, 1)$  lies on line  $\ell_3$   
 841 :  $P_{245862} = (37, 0, 59, 1)$  lies on line  $\ell_4$   
 842 :  $P_{245871} = (46, 0, 59, 1)$  lies on line  $\ell_5$   
 843 :  $P_{246208} = (63, 5, 59, 1)$  lies on line  $\ell_{12}$   
 844 :  $P_{246475} = (10, 10, 59, 1)$  lies on line  $\ell_6$   
 845 :  $P_{247277} = (44, 22, 59, 1)$  lies on line  $\ell_{14}$   
 846 :  $P_{248230} = (37, 37, 59, 1)$  lies on line  $\ell_7$   
 847 :  $P_{248403} = (18, 40, 59, 1)$  lies on line  $\ell_{13}$   
 848 :  $P_{248815} = (46, 46, 59, 1)$  lies on line  $\ell_8$   
 849 :  $P_{249555} = (18, 58, 59, 1)$  lies on line  $\ell_{10}$   
 850 :  $P_{249581} = (44, 58, 59, 1)$  lies on line  $\ell_{11}$   
 851 :  $P_{249600} = (63, 58, 59, 1)$  lies on line  $\ell_9$   
 852 :  $P_{249931} = (10, 0, 60, 1)$  lies on line  $\ell_3$   
 853 :  $P_{249958} = (37, 0, 60, 1)$  lies on line  $\ell_4$   
 854 :  $P_{249967} = (46, 0, 60, 1)$  lies on line  $\ell_5$   
 855 :  $P_{250571} = (10, 10, 60, 1)$  lies on line  $\ell_6$   
 856 :  $P_{251053} = (44, 17, 60, 1)$  lies on line  $\ell_{13}$   
 857 :  $P_{251876} = (35, 30, 60, 1)$  lies on line  $\ell_{14}$   
 858 :  $P_{252326} = (37, 37, 60, 1)$  lies on line  $\ell_7$   
 859 :  $P_{252911} = (46, 46, 60, 1)$  lies on line  $\ell_8$   
 860 :  $P_{253199} = (14, 51, 60, 1)$  lies on line  $\ell_{12}$   
 861 :  $P_{253839} = (14, 61, 60, 1)$  lies on line  $\ell_9$   
 862 :  $P_{253860} = (35, 61, 60, 1)$  lies on line  $\ell_{11}$   
 863 :  $P_{253869} = (44, 61, 60, 1)$  lies on line  $\ell_{10}$   
 864 :  $P_{254027} = (10, 0, 61, 1)$  lies on line  $\ell_3$   
 865 :  $P_{254054} = (37, 0, 61, 1)$  lies on line  $\ell_4$   
 866 :  $P_{254063} = (46, 0, 61, 1)$  lies on line  $\ell_5$   
 867 :  $P_{254667} = (10, 10, 61, 1)$  lies on line  $\ell_6$   
 868 :  $P_{256422} = (37, 37, 61, 1)$  lies on line  $\ell_7$   
 869 :  $P_{257007} = (46, 46, 61, 1)$  lies on line  $\ell_8$   
 870 :  $P_{257101} = (12, 48, 61, 1)$  lies on line  $\ell_{14}$   
 871 :  $P_{257353} = (8, 52, 61, 1)$  lies on line  $\ell_{13}$   
 872 :  $P_{257670} = (5, 57, 61, 1)$  lies on line  $\ell_{12}$   
 873 :  $P_{257862} = (5, 60, 61, 1)$  lies on line  $\ell_9$   
 874 :  $P_{257865} = (8, 60, 61, 1)$  lies on line  $\ell_{10}$   
 875 :  $P_{257869} = (12, 60, 61, 1)$  lies on line  $\ell_{11}$   
 876 :  $P_{258123} = (10, 0, 62, 1)$  lies on line  $\ell_3$   
 877 :  $P_{258150} = (37, 0, 62, 1)$  lies on line  $\ell_4$   
 878 :  $P_{258159} = (46, 0, 62, 1)$  lies on line  $\ell_5$   
 879 :  $P_{258763} = (10, 10, 62, 1)$  lies on line  $\ell_6$   
 880 :  $P_{260381} = (28, 35, 62, 1)$  lies on line  $\ell_{14}$   
 881 :  $P_{260518} = (37, 37, 62, 1)$  lies on line  $\ell_7$   
 882 :  $P_{260633} = (24, 39, 62, 1)$  lies on line  $\ell_{12}$   
 883 :  $P_{261103} = (46, 46, 62, 1)$  lies on line  $\ell_8$   
 884 :  $P_{261830} = (5, 58, 62, 1)$  lies on line  $\ell_{13}$   
 885 :  $P_{262150} = (5, 63, 62, 1)$  lies on line  $\ell_{10}$   
 886 :  $P_{262169} = (24, 63, 62, 1)$  lies on line  $\ell_9$   
 887 :  $P_{262173} = (28, 63, 62, 1)$  lies on line  $\ell_{11}$   
 888 :  $P_{262219} = (10, 0, 63, 1)$  lies on line  $\ell_3$   
 889 :  $P_{262246} = (37, 0, 63, 1)$  lies on line  $\ell_4$   
 890 :  $P_{262255} = (46, 0, 63, 1)$  lies on line  $\ell_5$   
 891 :  $P_{262859} = (10, 10, 63, 1)$  lies on line  $\ell_6$   
 892 :  $P_{263092} = (51, 13, 63, 1)$  lies on line  $\ell_{14}$   
 893 :  $P_{264226} = (33, 31, 63, 1)$  lies on line  $\ell_{13}$   
 894 :  $P_{264614} = (37, 37, 63, 1)$  lies on line  $\ell_7$   
 895 :  $P_{265108} = (19, 45, 63, 1)$  lies on line  $\ell_{12}$   
 896 :  $P_{265199} = (46, 46, 63, 1)$  lies on line  $\ell_8$   
 897 :  $P_{266196} = (19, 62, 63, 1)$  lies on line  $\ell_9$   
 898 :  $P_{266210} = (33, 62, 63, 1)$  lies on line  $\ell_{10}$   
 899 :  $P_{266228} = (51, 62, 63, 1)$  lies on line  $\ell_{11}$

The single points on the surface are:

### Points on surface but on no line

The surface has 3482 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	0	0	1	0	0	0	1	0	0	1	0
1	1	0	1	0	1	0	0	1	0	0	0	1	0	0	1
2	1	1	0	0	0	1	0	0	1	1	0	0	1	0	0
3	1	0	0	0	1	1	1	1	1	0	0	1	1	0	0
4	0	1	0	1	0	1	1	1	1	1	0	0	0	1	0
5	0	0	1	1	1	0	1	1	1	0	1	0	0	0	1
6	1	0	0	1	1	1	0	1	1	1	0	0	0	0	1
7	0	1	0	1	1	1	1	0	1	0	1	0	1	0	0
8	0	0	1	1	1	1	1	1	0	0	0	1	0	1	0
9	0	0	1	0	1	0	1	0	0	0	1	1	1	0	0
10	1	0	0	0	0	1	0	1	0	1	0	1	0	1	0
11	0	1	0	1	0	0	0	0	1	1	1	0	0	0	1
12	0	0	1	1	0	0	0	1	0	1	0	0	0	1	1
13	1	0	0	0	1	0	0	0	1	0	1	0	1	0	1
14	0	1	0	0	0	1	1	0	0	0	0	1	1	1	0

Neighbor sets in the line intersection graph:

Line 0 intersects

Line	$\ell_1$	$\ell_2$	$\ell_3$	$\ell_6$	$\ell_{10}$	$\ell_{13}$
in point	$P_1$	$P_1$	$P_{4172}$	$P_{4812}$	$P_{4236}$	$P_{4876}$

Line 1 intersects

Line	$\ell_0$	$\ell_2$	$\ell_4$	$\ell_7$	$\ell_{11}$	$\ell_{14}$
in point	$P_1$	$P_1$	$P_{4199}$	$P_{6567}$	$P_{4263}$	$P_{6503}$

Line 2 intersects

Line	$\ell_0$	$\ell_1$	$\ell_5$	$\ell_8$	$\ell_9$	$\ell_{12}$
in point	$P_1$	$P_1$	$P_{4208}$	$P_{7152}$	$P_{4272}$	$P_{7216}$

Line 3 intersects

Line	$\ell_0$	$\ell_4$	$\ell_5$	$\ell_6$	$\ell_7$	$\ell_8$	$\ell_{11}$	$\ell_{12}$
in point	$P_{4172}$	$P_2$	$P_2$	$P_2$	$P_2$	$P_2$	$P_{8268}$	$P_{49227}$

Line 4 intersects

Line	$\ell_1$	$\ell_3$	$\ell_5$	$\ell_6$	$\ell_7$	$\ell_8$	$\ell_9$	$\ell_{13}$
in point	$P_{4199}$	$P_2$	$P_2$	$P_2$	$P_2$	$P_2$	$P_{8295}$	$P_{151654}$

Line 5 intersects

Line	$\ell_2$	$\ell_3$	$\ell_4$	$\ell_6$	$\ell_7$	$\ell_8$	$\ell_{10}$	$\ell_{14}$
in point	$P_{4208}$	$P_2$	$P_2$	$P_2$	$P_2$	$P_2$	$P_{8304}$	$P_{196719}$

Line 6 intersects

Line	$\ell_0$	$\ell_3$	$\ell_4$	$\ell_5$	$\ell_7$	$\ell_8$	$\ell_9$	$\ell_{14}$
in point	$P_{4812}$	$P_2$	$P_2$	$P_2$	$P_2$	$P_2$	$P_{49867}$	$P_{8907}$

Line 7 intersects

Line	$\ell_1$	$\ell_3$	$\ell_4$	$\ell_5$	$\ell_6$	$\ell_8$	$\ell_{10}$	$\ell_{12}$
in point	$P_{6567}$	$P_2$	$P_2$	$P_2$	$P_2$	$P_2$	$P_{154022}$	$P_{10662}$

Line 8 intersects

Line	$\ell_2$	$\ell_3$	$\ell_4$	$\ell_5$	$\ell_6$	$\ell_7$	$\ell_{11}$	$\ell_{13}$
in point	$P_{7152}$	$P_2$	$P_2$	$P_2$	$P_2$	$P_2$	$P_{199663}$	$P_{11247}$

Line 9 intersects

Line	$\ell_2$	$\ell_4$	$\ell_6$	$\ell_{10}$	$\ell_{11}$	$\ell_{12}$
in point	$P_{4272}$	$P_{8295}$	$P_{49867}$	$P_{195596}$	$P_{158064}$	$P_{199617}$

Line 10 intersects

Line	$\ell_0$	$\ell_5$	$\ell_7$	$\ell_9$	$\ell_{11}$	$\ell_{13}$
in point	$P_{4236}$	$P_{8304}$	$P_{154022}$	$P_{195596}$	$P_{45861}$	$P_{49857}$

Line 11 intersects

Line	$\ell_1$	$\ell_3$	$\ell_8$	$\ell_9$	$\ell_{10}$	$\ell_{14}$
in point	$P_{4263}$	$P_{8268}$	$P_{199663}$	$P_{158064}$	$P_{45861}$	$P_{153985}$

Line 12 intersects

Line	$\ell_2$	$\ell_3$	$\ell_7$	$\ell_9$	$\ell_{13}$	$\ell_{14}$
in point	$P_{7216}$	$P_{49227}$	$P_{10662}$	$P_{199617}$	$P_{194892}$	$P_{156464}$

Line 13 intersects

Line	$\ell_0$	$\ell_4$	$\ell_8$	$\ell_{10}$	$\ell_{12}$	$\ell_{14}$
in point	$P_{4876}$	$P_{151654}$	$P_{11247}$	$P_{49857}$	$P_{194892}$	$P_{48165}$

Line 14 intersects

Line	$\ell_1$	$\ell_5$	$\ell_6$	$\ell_{11}$	$\ell_{12}$	$\ell_{13}$
in point	$P_{6503}$	$P_{196719}$	$P_{8907}$	$P_{153985}$	$P_{156464}$	$P_{48165}$

The surface has 4417 points:

Too many to print.