Rank-21 over GF(8)

January 15, 2021

The equation

The equation of the surface is:

$$X_0^3 + X_1^3 = 0$$

General information

Number of lines	73
Number of points	73
Number of singular points	9
Number of Eckardt points	0
Number of double points	0
Number of single points	0
Number of points off lines	0
Number of Hesse planes	0
Number of axes	0
Type of points on lines	9^{73}
Type of lines on points	9^{73}

Singular Points

The surface has 9 singular points:

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\begin{array}{ll} 0: \ P_2 = \mathbf{P}(0,0,1,0) = \mathbf{P}(0,0,1,0) \\ 1: \ P_3 = \mathbf{P}(0,0,0,1) = \mathbf{P}(0,0,0,1) \\ 2: \ P_{138} = \mathbf{P}(0,0,1,1) = \mathbf{P}(0,0,1,1) \\ 3: \ P_{201} = \mathbf{P}(0,0,\gamma,1) = \mathbf{P}(0,0,2,1) \\ 4: \ P_{265} = \mathbf{P}(0,0,\gamma^5,1) = \mathbf{P}(0,0,3,1) \end{array}
\begin{array}{ll} 5: \ P_{329} = \mathbf{P}(0,0,\gamma^2,1) = \mathbf{P}(0,0,4,1) \\ 6: \ P_{393} = \mathbf{P}(0,0,\gamma^3,1) = \mathbf{P}(0,0,5,1) \\ 7: \ P_{457} = \mathbf{P}(0,0,\gamma^6,1) = \mathbf{P}(0,0,6,1) \\ 8: \ P_{521} = \mathbf{P}(0,0,\gamma^4,1) = \mathbf{P}(0,0,7,1) \end{array}
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The 73 Lines

The lines and their Pluecker coordinates are:

$$\begin{split} \ell_0 &= \begin{bmatrix} 1 & 1 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{137} = \begin{bmatrix} 1 & 1 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{137} = \mathbf{PI}(0,0,1,0,0,1)_{664} \\ \ell_1 &= \begin{bmatrix} 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{4744} = \begin{bmatrix} 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{4744} = \mathbf{PI}(0,1,0,0,0,0)_1 \\ \ell_2 &= \begin{bmatrix} 1 & 1 & 0 & 1 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{721} = \begin{bmatrix} 1 & 1 & 0 & 1 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{721} = \mathbf{PI}(0,1,1,0,0,1)_{672} \\ \ell_3 &= \begin{bmatrix} 1 & 1 & 0 & \gamma^6 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{3641} = \begin{bmatrix} 1 & 1 & 0 & 6 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{3641} = \mathbf{PI}(0,6,1,0,0,1)_{677} \\ \ell_4 &= \begin{bmatrix} 1 & 1 & 0 & \gamma^5 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{2473} = \begin{bmatrix} 1 & 1 & 0 & 4 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{2473} = \mathbf{PI}(0,4,1,0,0,1)_{675} \\ \ell_5 &= \begin{bmatrix} 1 & 1 & 0 & \gamma^5 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1889} = \begin{bmatrix} 1 & 1 & 0 & 3 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1889} = \mathbf{PI}(0,3,1,0,0,1)_{674} \\ \ell_6 &= \begin{bmatrix} 1 & 1 & 0 & \gamma^4 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{4225} = \begin{bmatrix} 1 & 1 & 0 & 7 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1895} = \mathbf{PI}(0,2,1,0,0,1)_{678} \\ \ell_7 &= \begin{bmatrix} 1 & 1 & 0 & \gamma^3 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{3057} = \begin{bmatrix} 1 & 1 & 0 & 2 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{3057} = \mathbf{PI}(0,2,1,0,0,1)_{676} \\ \ell_9 &= \begin{bmatrix} 1 & 1 & 0 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{145} = \begin{bmatrix} 1 & 1 & 0 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{145} = \mathbf{PI}(0,0,1,1,1,1)_{1322} \\ \ell_{11} &= \begin{bmatrix} 1 & 1 & 0 & 0 \\ 0 & 0 & 1 & \gamma^2 \end{bmatrix}_{141} = \begin{bmatrix} 1 & 1 & 0 & 0 \\ 0 & 0 & 1 & 4 \end{bmatrix}_{141} = \mathbf{PI}(0,0,2,6,6,1)_{3857} \\ \ell_{12} &= \begin{bmatrix} 1 & 1 & 0 & 0 \\ 0 & 0 & 1 & \gamma^5 \end{bmatrix}_{140} = \begin{bmatrix} 1 & 1 & 0 & 0 \\ 0 & 0 & 1 & 4 \end{bmatrix}_{141} = \mathbf{PI}(0,0,5,7,7,1)_{4406} \\ \ell_{15} &= \begin{bmatrix} 1 & 1 & 0 & 0 \\ 0 & 0 & 1 & \gamma^3 \end{bmatrix}_{142} = \begin{bmatrix} 1 & 1 & 0 & 0 \\ 0 & 0 & 1 & 2 \end{bmatrix}_{139} = \mathbf{PI}(0,0,6,2,2,1)_{1901} \\ \ell_{16} &= \begin{bmatrix} 1 & 1 & 0 & 0 \\ 0 & 0 & 1 & \gamma^3 \end{bmatrix}_{142} = \begin{bmatrix} 1 & 1 & 0 & 0 \\ 0 & 0 & 1 & 2 \end{bmatrix}_{139} = \mathbf{PI}(0,0,7,5,5,1)_{3428} \\ \ell_{17} &= \begin{bmatrix} 1 & 1 & 0 & 0 \\ 0 & 0 & 1 & \gamma^3 \end{bmatrix}_{142} = \begin{bmatrix} 1 & 1 & 1 & 0 \\ 0 & 0 & 1 & 5 \end{bmatrix}_{142} = \mathbf{PI}(0,1,1,1,1,0)_{209} \\ \ell_{18} &= \begin{bmatrix} 1 & 1 & 0 & 1 \\ 0 & 0 & 1 & \gamma^3 \end{bmatrix}_{142} = \begin{bmatrix} 1 & 1 & 1 & 0 \\ 0 & 0 & 1 & 5 \end{bmatrix}_{142} = \mathbf{PI}(0,0,7,5,5,1)_{3428} \\ \ell_{17} &= \begin{bmatrix} 1 & 1 & 0 & 1 \\ 0 & 0 & 1 & \gamma^3 \end{bmatrix}_{142} = \begin{bmatrix} 1 & 1 & 1 & 0 \\ 0 & 0 & 1 & 5 \end{bmatrix}_{142} = \mathbf{PI}(0,1,1,1,1,1)_{1330} \\ \ell_{19} &= \begin{bmatrix} 1 & 1 & 0 & 1 \\ 0 & 0 & 1 & \gamma^6 \end{bmatrix}_{2647} = \begin{bmatrix} 1 & 1 & 0 & 6 \\ 0 & 0 & 1 & 6$$

$$\begin{split} &\ell_{20} = \begin{bmatrix} 1 & 1 & 0 & \gamma^2 \\ 0 & 0 & 1 & \gamma^2 \end{bmatrix}_{2477} = \begin{bmatrix} 1 & 1 & 0 & 4 \\ 0 & 0 & 1 & 4 \end{bmatrix}_{2477} = \mathbf{PI}(0,4,3,4,4,1)_{2875} \\ &\ell_{21} = \begin{bmatrix} 1 & 1 & 0 & \gamma^5 \\ 0 & 0 & 1 & \gamma^5 \end{bmatrix}_{1892} = \begin{bmatrix} 1 & 1 & 0 & 3 \\ 0 & 0 & 1 & 3 \end{bmatrix}_{1892} = \mathbf{PI}(0,3,4,3,3,1)_{2385} \\ &\ell_{22} = \begin{bmatrix} 1 & 1 & 0 & \gamma^4 \\ 0 & 0 & 1 & \gamma^4 \end{bmatrix}_{4232} = \begin{bmatrix} 1 & 1 & 0 & 7 \\ 0 & 0 & 1 & 7 \end{bmatrix}_{4232} = \mathbf{PI}(0,7,5,7,7)_{14420} \\ &\ell_{23} = \begin{bmatrix} 1 & 1 & 0 & \gamma^3 \\ 0 & 0 & 1 & \gamma^3 \end{bmatrix}_{3076} = \begin{bmatrix} 1 & 1 & 0 & 2 \\ 0 & 0 & 1 & 2 \end{bmatrix}_{1307} = \mathbf{PI}(0,2,6,2,2,1)_{1910} \\ &\ell_{24} = \begin{bmatrix} 1 & 1 & 0 & \gamma^3 \\ 0 & 0 & 1 & \gamma^3 \end{bmatrix}_{3662} = \begin{bmatrix} 1 & 1 & 0 & 5 \\ 0 & 0 & 1 & 5 \end{bmatrix}_{369} = \mathbf{PI}(0,5,7,5,5,1)_{3440} \\ &\ell_{25} = \begin{bmatrix} 1 & 1 & \gamma^6 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{3649} = \begin{bmatrix} 1 & 1 & 6 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{3649} = \mathbf{PI}(0,6,0,1,1,0)_{214} \\ &\ell_{26} = \begin{bmatrix} 1 & 1 & 0 & \gamma^2 \\ 0 & 0 & 1 & \gamma^3 \end{bmatrix}_{2478} = \begin{bmatrix} 1 & 1 & 0 & 4 \\ 0 & 0 & 1 & 2 \end{bmatrix}_{2478} = \mathbf{PI}(0,4,7,5,5,1)_{3439} \\ &\ell_{27} = \begin{bmatrix} 1 & 1 & 0 & \gamma^5 \\ 0 & 0 & 1 & \gamma^5 \end{bmatrix}_{3642} = \begin{bmatrix} 1 & 1 & 0 & 6 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{3642} = \mathbf{PI}(0,6,1,1,1,1)_{1335} \\ &\ell_{29} = \begin{bmatrix} 1 & 1 & 0 & \gamma^6 \\ 0 & 0 & 1 & \gamma^6 \end{bmatrix}_{1895} = \begin{bmatrix} 1 & 1 & 0 & 6 \\ 0 & 0 & 1 & 3 \end{bmatrix}_{1895} = \mathbf{PI}(0,6,1,1,1,1)_{1335} \\ &\ell_{29} = \begin{bmatrix} 1 & 1 & 0 & \gamma^5 \\ 0 & 0 & 1 & \gamma^5 \end{bmatrix}_{4228} = \begin{bmatrix} 1 & 1 & 0 & 6 \\ 0 & 0 & 1 & 3 \end{bmatrix}_{3629} = \mathbf{PI}(0,7,4,3,3,1)_{2389} \\ &\ell_{31} = \begin{bmatrix} 1 & 1 & 0 & \gamma^5 \\ 0 & 0 & 1 & \gamma^5 \end{bmatrix}_{3228} = \begin{bmatrix} 1 & 1 & 0 & 3 \\ 0 & 0 & 1 & 3 \end{bmatrix}_{3629} = \mathbf{PI}(0,6,1,1,1,1)_{1335} \\ &\ell_{29} = \begin{bmatrix} 1 & 1 & 0 & \gamma^3 \\ 0 & 0 & 1 & \gamma^5 \end{bmatrix}_{3648} = \begin{bmatrix} 1 & 1 & 0 & 5 \\ 0 & 0 & 1 & 3 \end{bmatrix}_{3629} = \mathbf{PI}(0,5,5,7,7,1)_{4418} \\ &\ell_{31} = \begin{bmatrix} 1 & 1 & 0 & \gamma^3 \\ 0 & 0 & 1 & \gamma^4 \end{bmatrix}_{3648} = \begin{bmatrix} 1 & 1 & 0 & 5 \\ 0 & 0 & 1 & 7 \end{bmatrix}_{3649} = \mathbf{PI}(0,5,5,7,7,1)_{4419} \\ &\ell_{32} = \begin{bmatrix} 1 & 1 & 0 & \gamma^5 \\ 0 & 0 & 1 & \gamma^4 \end{bmatrix}_{3648} = \begin{bmatrix} 1 & 1 & 0 & 6 \\ 0 & 0 & 1 & 7 \end{bmatrix}_{3649} = \mathbf{PI}(0,4,0,1,1,0)_{212} \\ &\ell_{34} = \begin{bmatrix} 1 & 1 & 0 & \gamma^5 \\ 0 & 0 & 1 & \gamma^4 \end{bmatrix}_{3648} = \begin{bmatrix} 1 & 1 & 0 & 6 \\ 0 & 0 & 1 & 7 \end{bmatrix}_{3649} = \mathbf{PI}(0,4,0,1,1,0)_{212} \\ &\ell_{34} = \begin{bmatrix} 1 & 1 & 0 & \gamma^5 \\ 0 & 0 & 1 & \gamma^5 \end{bmatrix}_{3648} = \begin{bmatrix} 1 & 1 & 0 & 6 \\ 0 & 0 & 1 & 7 \end{bmatrix}_{3648} = \mathbf{PI}(0,4,3,3,3)_{2383} \\ &\ell_$$

$$\begin{split} \ell_{41} &= \begin{bmatrix} 1 & 1 & \gamma^5 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1897} = \begin{bmatrix} 1 & 1 & 3 & 0 \\ 0 & 0 & 1 \end{bmatrix}_{1897} = \mathbf{PI}(0,3,0,1,1,0)_{211} \\ \ell_{42} &= \begin{bmatrix} 1 & 1 & 0 & \gamma^4 \\ 0 & 0 & 1 & \gamma^6 \end{bmatrix}_{4231} = \begin{bmatrix} 1 & 1 & 0 & 7 \\ 0 & 0 & 1 & 6 \end{bmatrix}_{4231} = \mathbf{PI}(0,7,2,6,6,1)_{3871} \\ \ell_{43} &= \begin{bmatrix} 1 & 1 & 0 & \gamma^6 \\ 0 & 0 & 1 & \gamma^2 \end{bmatrix}_{725} = \begin{bmatrix} 1 & 1 & 0 & 1 \\ 0 & 0 & 1 & 2 \end{bmatrix}_{3643} = \mathbf{PI}(0,1,3,4,4,1)_{2872} \\ \ell_{44} &= \begin{bmatrix} 1 & 1 & 0 & \gamma^6 \\ 0 & 0 & 1 & \gamma^2 \end{bmatrix}_{3643} = \begin{bmatrix} 1 & 1 & 0 & 4 \\ 0 & 0 & 1 & 2 \end{bmatrix}_{3643} = \mathbf{PI}(0,6,6,2,2,1)_{1914} \\ \ell_{45} &= \begin{bmatrix} 1 & 1 & 0 & \gamma^5 \\ 0 & 0 & 1 & \gamma^4 \end{bmatrix}_{2480} = \begin{bmatrix} 1 & 1 & 0 & 4 \\ 0 & 0 & 1 & 7 \end{bmatrix}_{2480} = \mathbf{PI}(0,3,1,1,1,1)_{1332} \\ \ell_{47} &= \begin{bmatrix} 1 & 1 & 0 & \gamma^5 \\ 0 & 0 & 1 & \gamma^3 \end{bmatrix}_{1310} = \begin{bmatrix} 1 & 1 & 0 & 3 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1890} = \mathbf{PI}(0,3,1,1,1,1)_{1332} \\ \ell_{47} &= \begin{bmatrix} 1 & 1 & 0 & \gamma^5 \\ 0 & 0 & 1 & \gamma^3 \end{bmatrix}_{31310} = \begin{bmatrix} 1 & 1 & 0 & 2 \\ 0 & 0 & 1 & 5 \end{bmatrix}_{1310} = \mathbf{PI}(0,5,4,3,3,1)_{2387} \\ \ell_{49} &= \begin{bmatrix} 1 & 1 & \gamma^4 & 0 \\ 0 & 0 & 1 & \gamma^5 \end{bmatrix}_{3660} = \begin{bmatrix} 1 & 1 & 0 & 3 \\ 0 & 0 & 1 & 5 \end{bmatrix}_{3600} = \mathbf{PI}(0,7,0,1,1,0)_{215} \\ \ell_{50} &= \begin{bmatrix} 1 & 1 & 0 & \gamma^5 \\ 0 & 0 & 1 & \gamma^5 \end{bmatrix}_{3891} = \begin{bmatrix} 1 & 1 & 0 & 3 \\ 0 & 0 & 1 & 5 \end{bmatrix}_{3891} = \mathbf{PI}(0,3,6,2,2,1)_{1911} \\ \ell_{51} &= \begin{bmatrix} 1 & 1 & 0 & \gamma^5 \\ 0 & 0 & 1 & \gamma^5 \end{bmatrix}_{3645} = \begin{bmatrix} 1 & 1 & 0 & 3 \\ 0 & 0 & 1 & 5 \end{bmatrix}_{726} = \mathbf{PI}(0,1,7,5,5,1)_{3436} \\ \ell_{52} &= \begin{bmatrix} 1 & 1 & 0 & \gamma^6 \\ 0 & 0 & 1 & \gamma^5 \end{bmatrix}_{3645} = \begin{bmatrix} 1 & 1 & 0 & 4 \\ 0 & 0 & 1 & 3 \end{bmatrix}_{2476} = \mathbf{PI}(0,4,4,3,3,1)_{2386} \\ \ell_{54} &= \begin{bmatrix} 1 & 1 & 0 & \gamma^6 \\ 0 & 0 & 1 & \gamma^5 \end{bmatrix}_{3645} = \begin{bmatrix} 1 & 1 & 0 & 4 \\ 0 & 0 & 1 & 3 \end{bmatrix}_{2476} = \mathbf{PI}(0,5,2,6,6,1)_{3869} \\ \ell_{57} &= \begin{bmatrix} 1 & 1 & 0 & \gamma^3 \\ 0 & 0 & 1 & \gamma^6 \end{bmatrix}_{3663} = \begin{bmatrix} 1 & 1 & 0 & 5 \\ 0 & 0 & 1 & 7 \end{bmatrix}_{1312} = \mathbf{PI}(0,5,3,4,4,1)_{2876} \\ \ell_{59} &= \begin{bmatrix} 1 & 1 & 0 & \gamma^3 \\ 0 & 0 & 1 & \gamma^6 \end{bmatrix}_{3663} = \begin{bmatrix} 1 & 1 & 0 & 5 \\ 0 & 0 & 1 & 4 \end{bmatrix}_{3644} = \mathbf{PI}(0,5,3,4,4,1)_{2876} \\ \ell_{59} &= \begin{bmatrix} 1 & 1 & 0 & \gamma^6 \\ 0 & 0 & 1 & \gamma^6 \end{bmatrix}_{3644} = \begin{bmatrix} 1 & 1 & 0 & 6 \\ 0 & 0 & 1 & 4 \end{bmatrix}_{3644} = \mathbf{PI}(0,6,4,3,3,1)_{2388} \\ \ell_{69} &= \begin{bmatrix} 1 & 1 & 0 & \gamma^6 \\ 0 & 0 & 1 & \gamma^5 \end{bmatrix}_{3644} = \begin{bmatrix} 1 & 1 & 0 & 6 \\ 0 & 0 & 1 & 6 \end{bmatrix}_{3644} = \mathbf{PI}(0,6,4,3,3,1)_{2388} \\ \ell_{$$

$$\ell_{62} = \begin{bmatrix} 1 & 1 & 0 & \gamma^5 \\ 0 & 0 & 1 & \gamma^4 \end{bmatrix}_{1896} = \begin{bmatrix} 1 & 1 & 0 & 3 \\ 0 & 0 & 1 & 7 \end{bmatrix}_{1896} = \mathbf{Pl}(0,3,5,7,1)_{4416}$$

$$\ell_{63} = \begin{bmatrix} 1 & 1 & 0 & \gamma^4 \\ 0 & 0 & 1 & \gamma^3 \end{bmatrix}_{4230} = \begin{bmatrix} 1 & 1 & 0 & 7 \\ 0 & 0 & 1 & 5 \end{bmatrix}_{4230} = \mathbf{Pl}(0,7,7,5,5,1)_{3442}$$

$$\ell_{64} = \begin{bmatrix} 1 & 1 & 0 & \gamma \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1306} = \begin{bmatrix} 1 & 1 & 0 & 2 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1306} = \mathbf{Pl}(0,2,1,1,1,1)_{1331}$$

$$\ell_{65} = \begin{bmatrix} 1 & 1 & \gamma^3 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{3065} = \begin{bmatrix} 1 & 1 & 5 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{3065} = \mathbf{Pl}(0,5,0,1,1,0)_{213}$$

$$\ell_{66} = \begin{bmatrix} 1 & 1 & 0 & \gamma \\ 0 & 0 & 1 & \gamma^5 \end{bmatrix}_{1308} = \begin{bmatrix} 1 & 1 & 0 & 2 \\ 0 & 0 & 1 & 3 \end{bmatrix}_{1308} = \mathbf{Pl}(0,2,4,3,3,1)_{2384}$$

$$\ell_{67} = \begin{bmatrix} 1 & 1 & 0 & \gamma \\ 0 & 0 & 1 & \gamma^4 \end{bmatrix}_{728} = \begin{bmatrix} 1 & 1 & 0 & 1 \\ 0 & 0 & 1 & 7 \end{bmatrix}_{728} = \mathbf{Pl}(0,1,5,7,7,1)_{4414}$$

$$\ell_{68} = \begin{bmatrix} 1 & 1 & 0 & \gamma^6 \\ 0 & 0 & 1 & \gamma^3 \end{bmatrix}_{3646} = \begin{bmatrix} 1 & 1 & 0 & 6 \\ 0 & 0 & 1 & 5 \end{bmatrix}_{3646} = \mathbf{Pl}(0,6,7,5,5,1)_{3441}$$

$$\ell_{69} = \begin{bmatrix} 1 & 1 & 0 & \gamma^6 \\ 0 & 0 & 1 & \gamma^6 \end{bmatrix}_{2479} = \begin{bmatrix} 1 & 1 & 0 & 4 \\ 0 & 0 & 1 & 6 \end{bmatrix}_{2479} = \mathbf{Pl}(0,4,2,6,6,1)_{3868}$$

$$\ell_{70} = \begin{bmatrix} 1 & 1 & 0 & \gamma^5 \\ 0 & 0 & 1 & \gamma^2 \end{bmatrix}_{1893} = \begin{bmatrix} 1 & 1 & 0 & 3 \\ 0 & 0 & 1 & 4 \end{bmatrix}_{1893} = \mathbf{Pl}(0,3,3,4,4,1)_{2874}$$

$$\ell_{71} = \begin{bmatrix} 1 & 1 & 0 & \gamma^4 \\ 0 & 0 & 1 & \gamma \end{bmatrix}_{3058} = \begin{bmatrix} 1 & 1 & 0 & 7 \\ 0 & 0 & 1 & 2 \end{bmatrix}_{4227} = \mathbf{Pl}(0,7,6,2,2,1)_{1915}$$

$$\ell_{72} = \begin{bmatrix} 1 & 1 & 0 & \gamma^3 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{3058} = \begin{bmatrix} 1 & 1 & 0 & 5 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{3058} = \mathbf{Pl}(0,5,1,1,1,1)_{1334}$$

Rank of lines: (137, 4744, 721, 3641, 2473, 1889, 4225, 1305, 3057, 145, 138, 143, 141, 140, 144, 139, 142, 729, 722, 3647, 2477, 1892, 4232, 1307, 3062, 3649, 2478, 723, 3642, 1895, 4228, 1309, 3064, 2481, 3648, 724, 2474, 1894, 4229, 1311, 3059, 1897, 4231, 725, 3643, 2480, 1890, 1310, 3060, 4233, ...1893, 4227, 3058) Rank of points on Klein quadric: <math>(664, 1, 672, 677, 675, 674, 678, 673, 676, 201, 1322, 3857, 2864, 2375, 4406, 1901, 3428, 209, 1330, 3870, 2875, 2385, 4420, 1910, 3440, 214, 3439, 1909, 1335, 3867, 2389, 2873, 4418, 212, 4419, 2383, 1333, 3438, 2878, 3866, 1913, 211, 3871, 2872, 1914, 4417, 1332, 3437, 2387, 215, ...2874, 1915, 1334)

Eckardt Points

The surface has 0 Eckardt points:

Double Points

The surface has 0 Double points: The double points on the surface are:

Single Points

The surface has 0 single points: The single points on the surface are: The single points on the surface are:

Points on surface but on no line

The surface has 0 points not on any line: The points on the surface but not on lines are:

Line Intersection Graph

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	3 1 1	110	1 1	1 1	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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10	6 1 1	111	11	11	11	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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19	9 1 1	111	11	1 1	11	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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28	8 1 :	l 1 1	11	11	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29	a 1 1	111	1 1	1 1	1 1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	Λ	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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35	0 1 1	111	1 1	1 1	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	Ω	1	1	1	1	1 .	1	1	1	1	1	1	1	1	1	1
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3	5 1 1	111	1 1	1 1	1 1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	Ω	1	1	1	1	1	1	1	1	1	1	1	1
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3	8 1 1	l 1 1	1.1	1 1	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1 (n	1	1	1	1	1	1	1	1	1
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4	1 1 1	111	11	1 1	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
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4	4 1 1	111	11	1 1	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
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Neighbor sets in the line intersection graph:

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	ine	()	intersects

Line	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ_{22}
in point	P_2	P_5	P_5	P_5	P_5	P_5	P_5	P_5	P_5	P_{20}	P_{20}	P_{20}	P_{20}	P_{20}	P_{20}							

Line 1 intersects

Line	ℓ_0	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}
in point	P_2	P_3	P_{138}	P_{201}	P_{265}	P_{329}	P_{393}	P_{457}	P_{521}	P_3	P_{138}	P_{201}	P_{26}							

Line 2 intersects

Line	ℓ_0	ℓ_1	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}
in point	P_2	P_{83}	P_4	P_{210}	P_{274}	P_{338}	P_{402}	P_{466}	P_{530}	P_4	P_{83}	P_{274}	P_{210}							

Line 3 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ
in point	P_2	P_{92}	P_{155}	P_{219}	P_{283}	P_{347}	P_{411}	P_{475}	P_{539}	P_{219}	P_{283}	P_{92}	P							

Line 4 intersects

I	Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}
	$_{ m oint}$	P_2	P_{101}	P_{164}	P_{228}	P_{292}	P_{356}	P_{420}	P_{484}	P_{548}	P_{292}	P_{228}	P_{164}							

${\bf Line~5~intersects}$

Lin	$e \mid \ell_0$	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}
in poin	P_2	P_2	P_2	P_2	P_2	P_2	P_2	P_2	P_{110}	P_{173}	P_{237}	P_{301}	P_{365}	P_{429}	P_{493}	P_{557}	P_{365}	P_{429}	P_{493}

Line 6 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}
in point	P_2	P_{119}	P_{182}	P_{246}	P_{310}	P_{374}	P_{438}	P_{502}	P_{566}	P_{438}	P_{374}	P_{566}							

Line 7 intersects

ſ	Т :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}
	in point	P_2	P_{128}	P_{191}	P_{255}	P_{319}	P_{383}	P_{447}	P_{511}	P_{575}	P_{511}	P_{575}	P_{383}							

Line 8 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}
in point	P_2	P_{137}	P_{200}	P_{264}	P_{328}	P_{392}	P_{456}	P_{520}	P_{584}	P_{584}	P_{520}	P_{456}							

Line 9 intersects

	Line	ℓ_0	ℓ_1	$\mid \ell_2 \mid$	$\mid \ell_3 \mid$	ℓ_4	$ \ell_5 $	$ \ell_6 $	ℓ_7	ℓ_8	$ \ell_{10} $	ℓ_{11}	ℓ_{12}	$\mid \ell_{13} \mid$	$\mid \ell_{14} \mid$	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}
Ì	in point	P_5	P_3	P_{83}	P_{92}	P_{101}	P_{110}	P_{119}	P_{128}	P_{137}	P_5	P_5	P_5	P_5	P_5	P_5	P_5	P_3	P_{83}	P_{92}	P_{101}

${\rm Line}\ 10\ {\rm intersects}$

]	Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}
in p	oint	P_5	P_{138}	P_4	P_{155}	P_{164}	P_{173}	P_{182}	P_{191}	P_{200}	P_5	P_5	P_5	P_5	P_5	P_5	P_5	P_4	P_{138}	P_{164} .

Line 11 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}
in point	P_5	P_{201}	P_{210}	P_{219}	P_{228}	P_{237}	P_{246}	P_{255}	P_{264}	P_5	P_5	P_5	P_5	P_5	P_5	P_5	P_{219}	P_{228}	P_{201}

Line 12 in	ersec	ets																		
Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	$ \ell$	219
in point	P_5	P_{265}	P_{274}	P_{283}	P_{292}	P_{301}	P_{310}	P_{319}	P_{328}	P_5	P_5	P_5	P_5	P_5	P_5	P_5	P_{292}	P_{283}		274
Line 13 in	ersec	ets																		
Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ	19
in point	P_5	P_{329}	P_{338}	P_{347}	P_{356}	P_{365}	P_{374}	P_{383}	P_{392}	P_5	P_5	P_5	P_5	P_5	P_5	P_5	P_{365}	P_{374}	P	383
Line 14 in	ersec	ets																		
Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}		19
in point	P_5	P_{393}	P_{402}	P_{411}	P_{420}	P_{429}	P_{438}	P_{447}	P_{456}	P_5	P_5	P_5	P_5	P_5	P_5	P_5	P_{438}	P_{429}	P	456
Line 15 in		ets																		
Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{16}	ℓ_{17}	ℓ_{18}		19
in point	P_5	P_{457}	P_{466}	P_{475}	P_{484}	P_{493}	P_{502}	P_{511}	P_{520}	P_5	P_5	P_5	P_5	P_5	P_5	P_5	P_{511}	P_{520}	P	493
Line 16 in																				
Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{17}	ℓ_{18}		19
in point	P_5	P_{521}	P_{530}	P_{539}	P_{548}	P_{557}	P_{566}	P_{575}	P_{584}	P_5	P_5	P_5	P_5	P_5	P_5	P_5	P_{584}	P_{575}	P	566
Line 17 in																				
Line	ℓ_0								ℓ_8 ℓ_9			ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_1		ℓ_{15}	ℓ_{16}	ℓ_{18}	1
in point	P_{20}	P_3	$P_4 \mid P$	$P_{219} \mid P_{2}$	$P_{292} \mid P_{3}$	$P_{365} \mid P_{365}$	$P_{438} \mid P_{1}$	$P_{511} \mid P$	$P_{584} \mid P$	$P_3 \mid P$	' ₄ <i>I</i>	219	P_{292}	P_{365}	P_{43}	38 <i>F</i>	511	P_{584}	P_{20}	⊥ 4
Line 18 int				1	1	1 2	1 1						- 1							
Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_1		ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_1			ℓ_{16}	ℓ
in point	P_{20}		P_{83}	P_{283}	P_{228}	P_{429}	P_{374}	P_{575}	P_{520}	P_{83}	P_1	38 <i>F</i>	228	P_{283}	P_{374}	P_{42}	29 P	520 P	575	$\mid P$
Line 19 in						T 0	T 0	T 0	T 0	1 0	1 0	Т,	1	0	0	1 0			<u></u>	
Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_1		ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_1			ℓ_{16}	$\frac{\ell}{P}$
in point	P_{20}	P_{201}	P_{274}	P_{92}	P_{164}	P_{493}	P_{566}	P_{383}	P_{456}	P_{92}	P_{10}	64 I	201	P_{274}	P_{383}	P_4	56 F	493 F	566	
Line 20 in			<u> </u>		1 0				1 0	1 0		0	0	1 0	1 0		0	0		
Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	<i>l</i> ₇	ℓ_8	$\frac{\ell_{9}}{D}$	1	ℓ_{10}	$\frac{\ell_{11}}{D_{\cdots}}$	ℓ_{12}	ℓ_1	3 1		ℓ_{15}	ℓ_{16}	
in point Line 21 in	P_{20}	1	P_{210}	P_{155}	P_{101}	P_{557}	P_{502}	P_{447}	P_{392}	P_{10}	01 1	P ₁₅₅	P_{210}	P_{265}	P_{3}	92 1	P ₄₄₇	P_{502}	P_{557}	
			<u> </u>			<u> </u>	<u> </u>					^		1 0	1 0		^			\dashv
Line in point	ℓ_0 P_{20}	ℓ_1 P_{329}	$\begin{array}{ c c c }\hline \ell_2 \\\hline P_{402} \end{array}$	ℓ_3 P_{475}	$\begin{array}{ c c c }\hline \ell_4 \\\hline P_{548} \end{array}$	ℓ_5 P_{110}	ℓ_6 P_{182}	ℓ_7 P_{255}	ℓ_8 P_{328}	$P_{1:}$		ℓ_{10} ℓ_{182}	$\frac{\ell_{11}}{P_{255}}$	ℓ_{12} P_{328}			ℓ_{14} ℓ_{402}	$\begin{array}{ c c c }\hline \ell_{15} & \\ \hline P_{475} & \\ \end{array}$	$\frac{\ell_{16}}{P_{548}}$	
Line 22 in	ersec	$^{-}$ cts																		
Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_{9}	9 .	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_1	3	ℓ_{14}	ℓ_{15}	ℓ_{16}	Т
in point	P_{20}											173	P_{264}					P_{484}	P_{539}	
Line 23 in	- tersec	cts		_						_	_	_	_	_	_	_	_	_		_

Line 24 in	tersec	ts															
Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}
in point	P_{20}	P_{521}	P_{466}	P_{411}	P_{356}	P_{301}	P_{246}	P_{191}	P_{137}	P_{137}	P_{191}	P_{246}	P_{301}	P_{356}	P_{411}	P_{466}	P_{521}

 ℓ_7

 P_{310} P_{128}

 ℓ_8

 P_{200}

 ℓ_9

 P_{128}

 ℓ_{10}

 P_{200}

 ℓ_{11}

 P_{237}

 ℓ_{12}

 ℓ_{13}

 P_{310} P_{347}

 ℓ_{14}

 ℓ_{15}

 P_{420} P_{457}

 ℓ_{16}

 ℓ_6

Line

in point P_{20}

 ℓ_1

 P_{457}

 ℓ_2

 P_{530}

 ℓ_3

 ℓ_4

 P_{347} P_{420} P_{237}

 ℓ_5

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}		13	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_1
in point	P_{29}	P_3	P_{466}	P_{155}	P_{548}	P_{237}	P_{374}	P_{319}	P_{456}	P_3	P_{155}	P_{237}	P_{31}	$_9 \mid F$	374	P_{456}	P_{466}	P_{548}	Pa
Line 26 int	ersec	S																	
Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_1		ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_1
in point	P_{29}	P_{521}	P_4	P_{475}	P_{101}	P_{429}	P_{310}	P_{383}	P_{264}	P_{101}	P_4	P_{264}	P_{31}	$_{10} \mid I$	383	P_{429}	P_{475}	P_{521}	P
Line 27 int	ersec	S																	
Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}			12	ℓ_{13}	ℓ_{14}	ℓ_{15}		
in point	P_{29}	P_{457}	P_{83}	P_{539}	P_{164}	P_{365}	P_{246}	P_{447}	P_{328}	P_{83}	P_{16}	P_2	$_{46} \mid P$	328	P_{365}	P_{447}	P_{457}	P_{53}	39
Line 28 int	ersec	īS.																	
Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_1	1 1	12	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	3
in point	P_{29}	P_{138}	P_{530}	P_{92}	P_{484}	P_{301}	P_{438}	P_{255}	P_{392}	P_{92}	P_{13}	P_2	$_{55}$ P	301	P_{392}	P_{438}	P_{484}	P_{53}	30
Line 29 int	ersec	īS																	
Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ	9 ℓ		ℓ_{11}	ℓ_{12}	ℓ_1	$_3$ ℓ_1	4 1	15	ℓ_{16}
in point	P_{29}	P_{201}	P_{338}	P_{283}	P_{420}	P_{110}	P_{502}	P_{191}	P_{584}	P_1	$_{10} \mid P$	₁₉₁ I	201	P_{283}	P_{33}	P_4	P_{ϵ}	$_{502}$ I	584
Line 30 int	ersec	s																	
Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ			ℓ_{11}	ℓ_{12}	ℓ_1				ℓ_{16}
in point	P_{29}	P_{329}	P_{210}	P_{411}	P_{292}	P_{493}	P_{119}	P_{575}	P_{200}	P_1	$_{19} \mid P$	200 1	210	P_{292}	P_{32}	P_4	$_{11}$ P_{4}	₁₉₃ <i>F</i>	575
Line 31 int	ersec	īs.																	
Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ	9 1	10	ℓ_{11}	ℓ_{12}	ℓ_1	$\frac{1}{3}$ ℓ_1	4 1	15	ℓ_{16}
in point	P_{29}	P_{265}	P_{402}	P_{219}	P_{356}	P_{173}	P_{566}	P_{128}	P_{520}	P_1	28 P	173 <i>l</i>	219	P_{265}	P_{3}	P_4	.02 P		566
Line 32 int	ersec	īs																	
Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ		10	ℓ_{11}	ℓ_{12}	ℓ_1	$_3$ ℓ_1	14 1	15	ℓ_{16}
in point	P_{29}	P_{393}	P_{274}	P_{347}	P_{228}	P_{557}	P_{182}	P_{511}	P_{137}	P_1	$_{37} \mid P$	$_{182} \mid I$	228	P_{274}	P_{34}	$_{47} \mid P_3$	$P_{593} \mid P_{5}$	$_{511} \mid F$	557
Line 33 int	ersec	s																	
Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}		213	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_1
in point	P_{38}				P_{164}	P_{557}	P_{310}	P_{255}	P_{520}	P_3	P_{164}	P_{255}	P_{31}		338	P_{411}	P_{520}	P_{557}	P_{ϵ}

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}
in point	P_{38}	P_{393}	P_4	P_{92}	P_{356}	P_{237}	P_{502}	P_{575}	P_{328}	P_{92}	P_4	P_{237}	P_{328}	P_{356}	P_{393}	P_{502}	P_{575}	P_4
Line 35 int	tersect	S																

Line	~0	ν ₁	~2	<i>v</i> 3	·4	₹5	₹6	47	٧8	7.9	₹10	V11	C12	√13	5 V14	1 10) v16		
in point	P_{38}	P_{393}	P_4	P_{92}	P_{356}	P_{237}	P_{502}	P_{575}	P_{328}	P_{92}	P_4	P_{237}	P_{328}	P_{35}	$_{6} \mid P_{39}$	P_{50}	P_{57}	$r_5 \mid P_4$	
Line 35 in	tersect	ts																	
Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_1	10 l	11	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ
in point	P_{38}	P_{329}	P_{83}	P_{155}	P_{420}	P_{301}	P_{566}	P_{511}	P_{264}	P_{83}	P_1	.55 P	264 F	301	P_{329}	P_{420}	P_{511}	P_{566}	P
Line 36 in	tersect	ts																	
Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ	9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	
in point	P_{38}	P_{138}	P_{402}	P_{347}	P_{101}	P_{40}	P_{24}	6 P310	P_{58}	P_1	01	P_{138}	P_{246}	P_{310}	$P_{3/17}$	P_{402}	P_{493}	P_{584}	

Line 37 in	tersec	ts															
Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}
in point	P_{38}	P_{521}	P_{274}	P_{219}	P_{484}	P_{110}	P_{374}	P_{447}	P_{200}	P_{110}	P_{200}	P_{219}	P_{274}	P_{374}	P_{447}	P_{484}	P_{521}

Line 38 in	tersec	ts																		
Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	1 1	9	ℓ_{10}	ℓ_{11}	ℓ_1	$\frac{1}{12}$ ℓ	13	ℓ_{14}	ℓ_{15}	ℓ	16
in point	P_{38}	P_{265}	P_{530}	P_{475}	P_{228}	P_{365}	P_{119}	P_{191}	P_{456}	P_1	119	P_{191}	P_{228}	P_2	265 P	365	P_{456}	P_{475}	P_{5}	30
Line 39 in	$_{ m tersec}$	ts																		
Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8		9	ℓ_{10}	ℓ_{11}	ℓ_1	12 ℓ	13	ℓ_{14}	ℓ_{15}	ℓ	16
in point	P_{38}	P_{201}	P_{466}	P_{539}	P_{292}	P_{429}	P_{182}	P_{128}	P_{392}	$_{2}\mid P_{1}$	128	P_{182}	P_{201}	P_2	$_{292} \mid P$	392	P_{429}	P_{466}	P_{5}	39
Line 40 in	$_{ m tersec}$	ts																		
Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8		9	ℓ_{10}	ℓ_{11}			13	ℓ_{14}	ℓ_{15}	ℓ	16
in point	P_{38}	P_{457}	P_{210}	P_{283}	P_{548}	P_{173}	P_{438}	P_{383}	P_{13}	$r \mid P_1$	137	P_{173}	P_{210}	P_2	$P_{283} \mid P$	383	P_{438}	P_{457}	P_{5}	48
Line 41 in	$_{ m tersec}$	ts																		
Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_1		11 ℓ	12	ℓ_{13}	ℓ_{14}		15	216	ℓ
in point	P_{47}	P_3	P_{274}	P_{475}	P_{420}	P_{173}	P_{246}	P_{575}	P_{392}	P_3	P_{17}	$_{73} \mid P_2$	$P_{246} \mid P$	274	P_{392}	P_{42}	P_{0}	$I_{475} \mid I$	575	F
Line 42 in	$_{ m tersec}$	ts																		
Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ			ℓ_{12}	ℓ_{13}	ℓ_1	4 1	215	ℓ_{16}	ℓ
in point	P_{47}	P_{201}	P_4	P_{347}	P_{548}	P_{301}	P_{119}	P_{447}	P_{520}	P_{119}) 1	$P_4 \mid P_1$	I_{201}	301	P_{347}	P_4	$_{47} \mid F$	P_{520}	548	1
Line 43 in	$_{ m tersec}$	ts																		
Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	,	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	; (214	ℓ_{15}	ℓ_{16}	T
in point	P_{47}	P_{265}	P_{83}	P_{411}	P_{484}	P_{237}	P_{182}	P_{383}	P_{584}	P_{83}	₃ I	182	P_{237}	P_{265}	P_{38}	$_3 \mid F$	411	P_{484}	P_{584}	
Line 44 in	$_{ m tersec}$	ts																		
Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9		ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	; <i>l</i>	214	ℓ_{15}	ℓ_{16}	
in point	P_{47}	P_{457}	P_{402}	P_{92}	P_{292}	P_{557}	P_{374}	P_{191}	P_{264}	P_{92}	₂ I	191	P_{264}	P_{292}	P_{37}	4 F	402	P_{457}	P_{557}	7
Line 45 in	$_{ m tersec}$	ts																		
Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	1	9	ℓ_{10}	ℓ_{11}	ℓ	12 ℓ	13	ℓ_{14}	ℓ_{15}	ℓ	16
in point	P_{47}	P_{393}	P_{466}	P_{283}	P_{101}	P_{365}	P_{566}	P_{255}		P_1	101	P_{200}	P_{255}	P_2		365	P_{393}	P_{466}	P_5	66

Line 46 in	tersec	ts															
Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}
in point	P_{47}	P_{138}	P_{210}	P_{539}	P_{356}	P_{110}	P_{310}	P_{511}	P_{456}	P_{110}	P_{138}	P_{210}	P_{310}	P_{356}	P_{456}	P_{511}	P_{539}

LIII	ie 47 im	ersect	LS															
	Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}
in	point	P_{47}	P_{521}	P_{338}	P_{155}	P_{228}	P_{493}	P_{438}	P_{128}	P_{328}	P_{128}	P_{155}	P_{228}	P_{328}	P_{338}	P_{438}	P_{493}	P_{521}

,	Line 48 int	ersec	īs															
	Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}

Line	ι_0	٧1	£2	<i>c</i> 3	<i>ι</i> 4	~5	~6	ν7	18	τ9	τ ₁₀	τ ₁₁	¢12	c13	C14	c15	c16	
in point	P_{47}	P_{329}	P_{530}	P_{219}	P_{164}	P_{429}	P_{502}	P_{319}	P_{137}	P_{137}	P_{164}	P_{219}	P_{319}	P_{329}	P_{429}	P_{502}	P_{530}	
Line 49 in	tersect	-s																

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}
in point	P_{56}	P_3	P_{530}	P_{283}	P_{356}	P_{493}	P_{182}	P_{447}	P_{264}	P_3	P_{182}	P_{264}	P_{283}	P_{356}	P_{447}	P_{493}	P_{530}	P_3
Line 50 int	ersect	īs																

Line		ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}
in point	P_{56}	P_{457}	P_4	P_{411}	P_{228}	P_{110}	P_{566}	P_{319}	P_{392}	P_{110}	P_4	P_{228}	P_{319}	P_{392}	P_{411}	P_{457}	P_{566}	P_4

Line 51 in	tersec	$^{ m ts}$																	
Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}		ℓ_{14}	ℓ_{15}	ℓ_{16}	
in point	P_{56}	P_{521}	P_{83}	P_{347}	P_{292}	P_{173}	P_{502}	P_{255}	P_{456}	P_{83}	P_{173}	P_{255}	P_{292}	P_{34}	7 1	P_{456}	P_{502}	P_{521}	[A
Line 52 in																			
Line in point	ℓ_0 P_{56}	ℓ_1 P_{265}	ℓ_2 P_{338}	ℓ_3 P_{92}	ℓ_4 P_{548}	ℓ_5 P_{429}	ℓ_6 P_{246}	ℓ_7 P_{511}	ℓ_8 P_{200}	ℓ_9 P_{92}	ℓ_{10} P_{200}	ℓ_{11} P_{246}	$\begin{array}{ c c } \ell_{12} \\ \hline P_{265} \end{array}$	ℓ_{13} P_{33}	3	$\frac{\ell_{14}}{P_{429}}$	$\frac{\ell_{15}}{P_{511}}$	$\ell_{16} = \ell_{16} = \ell_{16}$	
Line 53 in			1 338	1 92	1 548	1 429	1 246	1 511	1 200	1 92	1 200	1 246	1 265	1 33	8 1	429	1 511	1 548	5 1
Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_{9}	ℓ_1	ℓ_1	ℓ_1	2 \ \(\ell \)	13	ℓ_{14}	ℓ_{15}	ℓ	16
in point	P_{56}	P_{329}	P_{274}		P_{101}		P_{438}		P_{520}	P_{10}					329	P_{438}			539
Line 54 in	tersec	ts																	
Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_{0}					213	ℓ_{14}	ℓ_{15}		16
in point	P_{56}	P_{138}	P_{466}	P_{219}	P_{420}	P_{557}	P_{119}	P_{383}	P_{328}	P_1	$P_{19} \mid P_{13}$	$_{38} \mid P_{21}$	P_3	$_{28} \mid P$	383	P_{420}	P_{46}	$_{6}\mid P_{5}$	557
Line 55 in	tersec	ts																	
Line in point	ℓ_0 P_{56}	ℓ_1 P_{393}	$\begin{array}{ c c c }\hline \ell_2 \\\hline P_{210} \end{array}$	ℓ_3 P_{475}	$\begin{array}{ c c c }\hline \ell_4 \\\hline P_{164} \end{array}$	ℓ_5	ℓ_6 P_{374}	ℓ_7	ℓ_8 P_{584}	ℓ_9					13 374	$\ell_{14} = P_{393}$	ℓ_{15}		16
_			1 210	1 475	1 164	1 301	1 374	1 128	1 584	1 12	28 1 16	54 1 21	10 13	01 1	374	1 393	1 47	5 1 5	584
Line 56 in			0	0	1 0	0	0	0		0			0		2	0	0	0	
Line in point	$\frac{\ell_0}{P_{56}}$	ℓ_1 P_{201}	l_2 P_{402}	ℓ_3 P_{155}	P_{484}	ℓ_5 P_{365}	ℓ_6 P_{310}	$\frac{\ell_7}{P_{575}}$	ℓ_8 P_{137}	P_{1}) 13 365	ℓ_{14} P_{402}	ℓ_{15}	$\frac{\ell_1}{4}$ P_1	16 575
Line 57 in	tersec																		
Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_1	.4	ℓ_{15}	ℓ_{16}	ℓ_{17}
in point	P_{65}		P_{210}	P_{347}	P_{484}	P_{429}	P_{566}	P_{191}	P_{328}			P_{210}	P_{328}	P_{347}	P_4		484	P_{566}	P_3
Line 58 in	tersec	ts																	
Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_1		ℓ_{15}	ℓ_{16}	ℓ_1
in point	P_{65}	P_{265}	P_4	P_{539}	P_{420}	P_{493}	P_{374}	P_{255}	P_{137}	P_{137}	P_4	P_{255}	P_{265}	P_{374}	F4	120	P_{493}	P_{539}	P_{z}
Line 59 in				T 0			1 0	1 0								0	0		
Line in point	ℓ_0 P_{65}	ℓ_1 P_{201}	P_{83}	ℓ_3 P_{475}	ℓ_4 P_{356}	ℓ_5 P_{557}	ℓ_6 P_{438}	P_{319}	ℓ_8 P_{200}	ℓ_9 P_{83}	ℓ_{10} P_{200}	ℓ_{11} P_{201}	ℓ_{12} P_{319}	ℓ_{13} P_{35}		$\begin{array}{c c} \ell_{14} \\ P_{438} \end{array}$	$\frac{\ell_{15}}{P_{475}}$	ℓ_{16} P_{557}	
Line 60 in	tersec	ts																	
Line in point	ℓ_0 P_{65}	ℓ_1 P_{329}	ℓ_2 P_{466}	ℓ_3 P_{92}	ℓ_4 P_{228}	ℓ_5 P_{173}	ℓ_6 P_{310}	ℓ_7 P_{447}	ℓ_8 P_{584}	l_9 P_{92}	ℓ_{10} P_{173}	$\begin{array}{c c} \ell_{11} \\ \hline P_{228} \end{array}$	ℓ_{12} P_{310}	ℓ_{13} P_{32}	9 1	ℓ_{14} P_{447}	$\frac{\ell_{15}}{P_{466}}$	$\ell_{16} = \ell_{16} = \ell_{16}$	_
Line 61 in	tersec																		
Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_{9}	ℓ_1	ℓ_1	ℓ_1	2 1	213	ℓ_{14}	ℓ_{15}	· ·	16
in point	P_{65}	P_{457}	P_{338}												338	P_{456}			575
Line 62 in	tersec	ts																	

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	$ \ell_4 $	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}
in point	P_{65}	P_{521}	P_{402}	P_{283}	P_{164}	P_{237}	P_{119}	P_{511}	P_{392}	P_{119}	P_{164}	P_{237}	P_{283}	P_{392}	P_{402}	P_{511}	P_{521}

 ℓ_7

 P_{383}

 ℓ_8

 P_{520}

 ℓ_9

 P_{110}

 ℓ_{10}

 P_{155}

 ℓ_{11}

 P_{246}

 ℓ_{12}

 P_{292}

 ℓ_{13}

 P_{383}

 ℓ_{14}

 P_{393}

 ℓ_{15}

 ℓ_{16}

 ℓ_6

 P_{246}

Line

in point P_{65}

 ${\rm Line}~63~{\rm intersects}$

 ℓ_1

 P_{393}

 ℓ_2

 P_{530}

 ℓ_3

 P_{155}

 ℓ_4

 P_{292}

 ℓ_5

 P_{110}

Line 64 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}
in point	P_{65}	P_{138}	P_{274}	P_{411}	P_{548}	P_{365}	P_{502}	P_{128}	P_{264}	P_{128}	P_{138}	P_{264}	P_{274}	P_{365}	P_{411}	P_{502}	P_{548}

Line 65 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}
in point	P_{74}	P_3	P_{402}	P_{539}	P_{228}	P_{301}	P_{502}	P_{383}	P_{200}	P_3	P_{200}	P_{228}	P_{301}	P_{383}	P_{402}	P_{502}	P_{539}	P_3

Line 66 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}
in point	P_{74}	P_{329}	P_4	P_{283}	P_{484}	P_{557}	P_{246}	P_{128}	P_{456}	P_{128}	P_4	P_{246}	P_{283}	P_{329}	P_{456}	P_{484}	P_{557}	P_4

Line 67 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ
in point	P_{74}	P_{393}	P_{83}	P_{219}	P_{548}	P_{493}	P_{310}	P_{191}	P_{392}	P_{83}	P_{191}	P_{219}	P_{310}	P_{392}	P_{393}	P_{493}	P_{548}	\overline{P}

${\rm Line}~68~{\rm intersects}$

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	·······································
in point	P_{74}	P_{521}	P_{210}	P_{92}	P_{420}	P_{365}	P_{182}	P_{319}	P_{520}	P_{92}	P_{182}	P_{210}	P_{319}	P_{365}	P_{420}	P_{520}	P_{521}	F

Line 69 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}
in point	P_{74}	P_{201}	P_{530}	P_{411}	P_{101}	P_{173}	P_{374}	P_{511}	P_{328}	P_{101}	P_{173}	P_{201}	P_{328}	P_{374}	P_{411}	P_{511}	P_{530}

Line 70 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}
in point	P_{74}	P_{265}	P_{466}	P_{347}	P_{164}	P_{110}	P_{438}	P_{575}	P_{264}	P_{110}	P_{164}	P_{264}	P_{265}	P_{347}	P_{438}	P_{466}	P_{575}

Line 71 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}
in point	P_{74}	P_{457}	P_{274}	P_{155}	P_{356}	P_{429}	P_{119}	P_{255}	P_{584}	P_{119}	P_{155}	P_{255}	P_{274}	P_{356}	P_{429}	P_{457}	P_{584}

Line 72 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}
in point	P_{74}	P_{138}	P_{338}	P_{475}	P_{292}	P_{237}	P_{566}	P_{447}	P_{137}	P_{137}	P_{138}	P_{237}	P_{292}	P_{338}	P_{447}	P_{475}	P_{566}

The surface has 73 points:

The points on the surface are:

$0: P_2 = (0, 0, 1, 0)$	$9: P_{65} = (6, 6, 1, 0)$	18: $P_{138} = (0, 0, 1, 1)$
$1: P_3 = (0,0,0,1)$	$10: P_{74} = (7,7,1,0)$	$19: P_{155} = (2, 2, 1, 1)$
$2: P_4 = (1, 1, 1, 1)$	$11: P_{83} = (1, 1, 0, 1)$	$20: P_{164} = (3,3,1,1)$
$3: P_5 = (1, 1, 0, 0)$	$12: P_{92} = (2, 2, 0, 1)$	$21: P_{173} = (4,4,1,1)$
$4: P_{20} = (1, 1, 1, 0)$	$13: P_{101} = (3, 3, 0, 1)$	$22: P_{182} = (5, 5, 1, 1)$
$5: P_{29} = (2, 2, 1, 0)$	$14: P_{110} = (4, 4, 0, 1)$	$23: P_{191} = (6,6,1,1)$
$6: P_{38} = (3, 3, 1, 0)$	$15: P_{119} = (5, 5, 0, 1)$	$24: P_{200} = (7,7,1,1)$
$7: P_{47} = (4, 4, 1, 0)$	$16: P_{128} = (6, 6, 0, 1)$	$25: P_{201} = (0,0,2,1)$
$8: P_{56} = (5, 5, 1, 0)$	17: $P_{137} = (7, 7, 0, 1)$	$26: P_{210} = (1, 1, 2, 1)$

$27: P_{219} = (2, 2, 2, 1)$	$43: P_{347} = (2, 2, 4, 1)$	$59: P_{475} = (2, 2, 6, 1)$
$28: P_{228} = (3, 3, 2, 1)$	$44: P_{356} = (3, 3, 4, 1)$	$60: P_{484} = (3, 3, 6, 1)$
$29: P_{237} = (4, 4, 2, 1)$	$45: P_{365} = (4, 4, 4, 1)$	$61: P_{493} = (4, 4, 6, 1)$
$30: P_{246} = (5, 5, 2, 1)$	$46: P_{374} = (5, 5, 4, 1)$	$62: P_{502} = (5, 5, 6, 1)$
$31: P_{255} = (6, 6, 2, 1)$	$47: P_{383} = (6, 6, 4, 1)$	$63: P_{511} = (6, 6, 6, 1)$
$32: P_{264} = (7,7,2,1)$	$48: P_{392} = (7,7,4,1)$	$64: P_{520} = (7,7,6,1)$
$33: P_{265} = (0,0,3,1)$	$49: P_{393} = (0,0,5,1)$	$65: P_{521} = (0,0,7,1)$
$34: P_{274} = (1, 1, 3, 1)$	$50: P_{402} = (1, 1, 5, 1)$	$66: P_{530} = (1, 1, 7, 1)$
$35: P_{283} = (2, 2, 3, 1)$	$51: P_{411} = (2, 2, 5, 1)$	$67: P_{539} = (2, 2, 7, 1)$
$36: P_{292} = (3, 3, 3, 1)$	$52: P_{420} = (3, 3, 5, 1)$	$68: P_{548} = (3, 3, 7, 1)$
$37: P_{301} = (4, 4, 3, 1)$	$53: P_{429} = (4, 4, 5, 1)$	$69: P_{557} = (4, 4, 7, 1)$
$38: P_{310} = (5, 5, 3, 1)$	$54: P_{438} = (5, 5, 5, 1)$	$70: P_{566} = (5, 5, 7, 1)$
$39: P_{319} = (6, 6, 3, 1)$	$55: P_{447} = (6, 6, 5, 1)$	$71: P_{575} = (6, 6, 7, 1)$
$40: P_{328} = (7,7,3,1)$	$56: P_{456} = (7,7,5,1)$	$72: P_{584} = (7,7,7,1)$
$41: P_{329} = (0, 0, 4, 1)$	$57: P_{457} = (0, 0, 6, 1)$	
$42: P_{338} = (1, 1, 4, 1)$	$58: P_{466} = (1, 1, 6, 1)$	