Rank-73795 over GF(8)

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The equation

The equation of the surface is:

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

(0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 1, 0, 0, 1, 0, 0, 0) The point rank of the equation over ${\rm GF}(8)$ is 1227395661

General information

Number of lines	91
Number of points	145
Number of singular points	9
Number of Eckardt points	0
Number of double points	72
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^{91}
Type of lines on points	$11^9, 9^{64}, 2^{72}$

Singular Points

The surface has 9 singular points:

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\begin{array}{ll} 0: \ P_1 = \mathbf{P}(0,1,0,0) = \mathbf{P}(0,1,0,0) \\ 1: \ P_2 = \mathbf{P}(0,0,1,0) = \mathbf{P}(0,0,1,0) \\ 2: \ P_{146} = \mathbf{P}(0,1,1,1) = \mathbf{P}(0,1,1,1) \\ 3: \ P_{249} = \mathbf{P}(0,\gamma^6,\gamma,1) = \mathbf{P}(0,6,2,1) \\ 4: \ P_{297} = \mathbf{P}(0,\gamma^2,\gamma^5,1) = \mathbf{P}(0,4,3,1) \end{array}
\begin{array}{ll} 5: \ P_{353} = \mathbf{P}(0,\gamma^5,\gamma^2,1) = \mathbf{P}(0,3,4,1) \\ 6: \ P_{449} = \mathbf{P}(0,\gamma^4,\gamma^3,1) = \mathbf{P}(0,7,5,1) \\ 7: \ P_{473} = \mathbf{P}(0,\gamma,\gamma^6,1) = \mathbf{P}(0,2,6,1) \\ 8: \ P_{561} = \mathbf{P}(0,\gamma^3,\gamma^4,1) = \mathbf{P}(0,5,7,1) \end{array}
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The 91 Lines

The lines and their Pluecker coordinates are:

$$\begin{split} \ell_0 &= \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \end{bmatrix}_0 = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \end{bmatrix}_0 = \mathbf{PI}(1,0,0,0,0,0)_0 \\ \ell_1 &= \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{64} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{64} = \mathbf{PI}(0,0,1,0,0,0)_2 \\ \ell_2 &= \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{4672} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{4672} = \mathbf{PI}(0,0,0,0,0,1)_{649} \\ \ell_3 &= \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{4680} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{4680} = \mathbf{PI}(0,0,0,1,0,0)_{17} \\ \ell_4 &= \begin{bmatrix} 1 & 0 & 0 & 1 \\ 0 & 1 & 0 & 0 \end{bmatrix}_{584} = \begin{bmatrix} 1 & 0 & 0 & 1 \\ 0 & 1 & 0 & 0 \end{bmatrix}_{584} = \mathbf{PI}(0,0,0,1,0,0)_{18} \\ \ell_5 &= \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{4673} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{4673} = \mathbf{PI}(0,0,0,1,0,1)_{769} \\ \ell_6 &= \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & \gamma^6 \end{bmatrix}_{4676} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 6 \end{bmatrix}_{4678} = \mathbf{PI}(0,0,0,6,0,1)_{844} \\ \ell_7 &= \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & \gamma^5 \end{bmatrix}_{4675} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 4 \end{bmatrix}_{4676} = \mathbf{PI}(0,0,0,4,0,1)_{799} \\ \ell_9 &= \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & \gamma^5 \end{bmatrix}_{4675} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 7 \end{bmatrix}_{4679} = \mathbf{PI}(0,0,0,3,0,1)_{799} \\ \ell_{10} &= \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & \gamma^3 \end{bmatrix}_{4677} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 2 \end{bmatrix}_{4674} = \mathbf{PI}(0,0,0,7,0,1)_{859} \\ \ell_{10} &= \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & \gamma^3 \end{bmatrix}_{4677} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 5 \end{bmatrix}_{4677} = \mathbf{PI}(0,0,0,5,0,1)_{829} \\ \ell_{11} &= \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{468} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 5 \end{bmatrix}_{4677} = \mathbf{PI}(0,0,0,5,0,1)_{829} \\ \ell_{12} &= \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{468} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 5 \end{bmatrix}_{4677} = \mathbf{PI}(0,1,0,0,0,1)_{657} \\ \ell_{14} &= \begin{bmatrix} 0 & 1 & 0 & \gamma^6 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{468} = \begin{bmatrix} 0 & 1 & 0 & 6 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{4681} = \mathbf{PI}(0,1,0,0,0,1)_{662} \\ \ell_{15} &= \begin{bmatrix} 0 & 1 & 0 & \gamma^6 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{4699} = \begin{bmatrix} 0 & 1 & 0 & 4 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{4699} = \mathbf{PI}(0,4,0,0,0,1)_{669} \\ \ell_{16} &= \begin{bmatrix} 0 & 1 & 0 & \gamma^4 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{4699} = \begin{bmatrix} 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{4699} = \mathbf{PI}(0,2,0,0,0,1)_{658} \\ \ell_{19} &= \begin{bmatrix} 0 & 1 & 0 & \gamma^4 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{4699} = \begin{bmatrix} 0 & 1 & 0 & 7 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{4699} = \mathbf{PI}(0,2,0,0,0,$$

$$\begin{split} \ell_{20} &= \begin{bmatrix} 0 & 1 & 0 & \gamma^3 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{4717} = \begin{bmatrix} 0 & 1 & 0 & 5 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{4717} = \mathbf{PI}(0,5,0,0,1)_{661} \\ \ell_{21} &= \begin{bmatrix} 1 & 0 & 1 & 1 \\ 0 & 1 & 1 & 1 \end{bmatrix}_{666} = \begin{bmatrix} 1 & 0 & 1 & 1 \\ 0 & 1 & 1 & 1 \end{bmatrix}_{666} = \mathbf{PI}(1,0,1,1,1,1)_{1323} \\ \ell_{22} &= \begin{bmatrix} 1 & 0 & \gamma^2 & 1 \\ 0 & 1 & \gamma^2 & \gamma \end{bmatrix}_{750} = \begin{bmatrix} 1 & 0 & 2 & 1 \\ 0 & 1 & 4 & 2 \end{bmatrix}_{750} = \mathbf{PI}(6,0,2,6,1,1)_{1343} \\ \ell_{23} &= \begin{bmatrix} 1 & 0 & \gamma^5 & 1 \\ 0 & 1 & \gamma^3 & \gamma^5 \end{bmatrix}_{832} = \begin{bmatrix} 1 & 0 & 3 & 1 \\ 0 & 1 & 5 & 3 \end{bmatrix}_{832} = \mathbf{PI}(4,0,3,4,1,1)_{1356} \\ \ell_{24} &= \begin{bmatrix} 1 & 0 & \gamma^2 & 1 \\ 0 & 1 & \gamma^4 & \gamma^2 \end{bmatrix}_{915} = \begin{bmatrix} 1 & 0 & 4 & 1 \\ 0 & 1 & 7 & 4 \end{bmatrix}_{915} = \mathbf{PI}(3,0,4,3,1,1)_{1370} \\ \ell_{25} &= \begin{bmatrix} 1 & 0 & \gamma^3 & 1 \\ 0 & 1 & \gamma^6 & \gamma^3 \end{bmatrix}_{995} = \begin{bmatrix} 1 & 0 & 5 & 1 \\ 0 & 1 & 3 & 6 \end{bmatrix}_{1073} = \mathbf{PI}(2,0,6,2,1,1)_{1389} \\ \ell_{26} &= \begin{bmatrix} 1 & 0 & \gamma^6 & 1 \\ 0 & 1 & \gamma^5 & \gamma^6 \end{bmatrix}_{1073} = \begin{bmatrix} 1 & 0 & 6 & 1 \\ 0 & 1 & 3 & 6 \end{bmatrix}_{1073} = \mathbf{PI}(2,0,6,2,1,1)_{13417} \\ \ell_{28} &= \begin{bmatrix} 1 & 0 & 1 & 0 \\ 0 & 1 & \gamma^5 & \gamma^6 \end{bmatrix}_{489} = \begin{bmatrix} 1 & 0 & 6 & 0 \\ 0 & 1 & 3 & 6 \end{bmatrix}_{489} = \mathbf{PI}(1,1,1,0,1,1)_{1224} \\ \ell_{29} &= \begin{bmatrix} 1 & 0 & \gamma^6 & 0 \\ 0 & 1 & \gamma^5 & \gamma^6 \end{bmatrix}_{489} = \begin{bmatrix} 1 & 0 & 6 & 0 \\ 0 & 1 & 3 & 6 \end{bmatrix}_{489} = \mathbf{PI}(3,4,4,0,1,1)_{1247} \\ \ell_{31} &= \begin{bmatrix} 1 & 0 & \gamma^2 & 0 \\ 0 & 1 & \gamma^3 & \gamma^5 \end{bmatrix}_{248} = \begin{bmatrix} 1 & 0 & 7 & 0 \\ 0 & 1 & 7 & 4 \end{bmatrix}_{331} = \mathbf{PI}(3,4,4,0,1,1)_{1247} \\ \ell_{32} &= \begin{bmatrix} 1 & 0 & \gamma^4 & 0 \\ 0 & 1 & \gamma^3 & \gamma^5 \end{bmatrix}_{248} = \begin{bmatrix} 1 & 0 & 7 & 0 \\ 0 & 1 & 2 & 7 \end{bmatrix}_{569} = \mathbf{PI}(5,7,7,0,1,1)_{1270} \\ \ell_{33} &= \begin{bmatrix} 1 & 0 & \gamma^4 & 0 \\ 0 & 1 & \gamma^3 & \gamma^5 \end{bmatrix}_{469} = \begin{bmatrix} 1 & 0 & 7 & 0 \\ 0 & 1 & 2 & 7 \end{bmatrix}_{569} = \mathbf{PI}(6,2,2,0,1,1)_{1236} \\ \ell_{34} &= \begin{bmatrix} 1 & 0 & \gamma^6 & 0 \\ 0 & 1 & \gamma^6 & \gamma^3 \end{bmatrix}_{411} = \begin{bmatrix} 1 & 0 & 5 & 0 \\ 0 & 1 & 2 & 7 \end{bmatrix}_{569} = \mathbf{PI}(0,1,0,1,0,0)_{25} \\ \ell_{36} &= \begin{bmatrix} 0 & 1 & 0 & \gamma^6 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{4689} = \begin{bmatrix} 0 & 1 & 0 & 6 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{4689} = \mathbf{PI}(0,4,0,4,0,1)_{825} \\ \ell_{39} &= \begin{bmatrix} 0 & 1 & 0 & \gamma^5 \\ 0 & 0 & 1 & \gamma^5 \end{bmatrix}_{4792} = \begin{bmatrix} 0 & 1 & 0 & 4 \\ 0 & 0 & 1 & 4 \end{bmatrix}_{4712} = \mathbf{PI}(0,3,0,3,0,1)_{809} \\ \ell_{40} &= \begin{bmatrix} 0 & 1 & 0 & \gamma^4 \\ 0 & 0 & 1 & \gamma^5 \end{bmatrix}_{4792} = \begin{bmatrix} 0 & 1 & 0 & 7 \\ 0 & 0 & 1 & 7 \end{bmatrix}_{4742} = \mathbf{PI}(0,7,0,7,0,1)_{873} \end{aligned}$$

$$\begin{array}{l} \ell_{41} = \begin{bmatrix} 0 & 1 & 0 & \gamma \\ 0 & 0 & 1 & \gamma \\ 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 1 \\ 0 & 0 & 1 & 2 \\ 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 1 \\ 0 & 0 & 0 &$$

$$\begin{split} &\ell_{62} = \begin{bmatrix} 0 & 1 & 0 & \gamma^2 \\ 0 & 0 & 1 & \gamma^4 \end{bmatrix}_{4715} = \begin{bmatrix} 0 & 1 & 0 & 4 \\ 0 & 0 & 1 & 7 \end{bmatrix}_{4715} = \mathbf{PI}(0,4,0,7,0,1)_{870} \\ &\ell_{63} = \begin{bmatrix} 0 & 1 & 0 & \gamma^5 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{4700} = \begin{bmatrix} 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{4700} = \mathbf{PI}(0,3,0,1,0,1)_{779} \\ &\ell_{64} = \begin{bmatrix} 0 & 1 & 0 & \gamma^4 \\ 0 & 0 & 1 & \gamma^3 \end{bmatrix}_{4695} = \begin{bmatrix} 0 & 1 & 0 & 7 \\ 0 & 0 & 1 & 5 \end{bmatrix}_{4741} = \mathbf{PI}(0,7,0,6,0,1)_{858} \\ &\ell_{65} = \begin{bmatrix} 0 & 1 & 0 & \gamma \\ 0 & 0 & 1 & \gamma^3 \end{bmatrix}_{4695} = \begin{bmatrix} 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & 5 \end{bmatrix}_{4695} = \mathbf{PI}(0,2,0,5,0,1)_{838} \\ &\ell_{66} = \begin{bmatrix} 0 & 1 & 0 & \gamma^3 \\ 0 & 0 & 1 & \gamma^5 \end{bmatrix}_{4720} = \begin{bmatrix} 0 & 1 & 0 & 5 \\ 0 & 0 & 1 & 3 \end{bmatrix}_{4720} = \mathbf{PI}(0,5,0,3,0,1)_{811} \\ &\ell_{67} = \begin{bmatrix} 0 & 1 & \gamma^4 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{4743} = \begin{bmatrix} 0 & 1 & 0 & 5 \\ 0 & 0 & 1 & 3 \end{bmatrix}_{4720} = \mathbf{PI}(0,7,0,1,0,0)_{31} \\ &\ell_{68} = \begin{bmatrix} 0 & 1 & 0 & \gamma^4 \\ 0 & 0 & 1 & \gamma^3 \end{bmatrix}_{4686} = \begin{bmatrix} 0 & 1 & 0 & 6 \\ 0 & 0 & 1 & 5 \end{bmatrix}_{4686} = \mathbf{PI}(0,1,0,5,0,1)_{837} \\ &\ell_{69} = \begin{bmatrix} 0 & 1 & 0 & \gamma^2 \\ 0 & 0 & 1 & \gamma^3 \end{bmatrix}_{4686} = \begin{bmatrix} 0 & 1 & 0 & 6 \\ 0 & 0 & 1 & 5 \end{bmatrix}_{4686} = \mathbf{PI}(0,4,0,3,0,1)_{810} \\ &\ell_{70} = \begin{bmatrix} 0 & 1 & 0 & \gamma^2 \\ 0 & 0 & 1 & \gamma^5 \end{bmatrix}_{4711} = \begin{bmatrix} 0 & 1 & 0 & 4 \\ 0 & 0 & 1 & 3 \end{bmatrix}_{4711} = \mathbf{PI}(0,4,0,3,0,1)_{810} \\ &\ell_{71} = \begin{bmatrix} 0 & 1 & 0 & \gamma^5 \\ 0 & 0 & 1 & \gamma \end{bmatrix}_{4697} = \begin{bmatrix} 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 2 \end{bmatrix}_{4701} = \mathbf{PI}(0,7,0,1,0,1)_{783} \\ &\ell_{72} = \begin{bmatrix} 0 & 1 & 0 & \gamma^5 \\ 0 & 0 & 1 & \gamma \end{bmatrix}_{4697} = \begin{bmatrix} 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{4736} = \mathbf{PI}(0,7,0,1,0,1)_{783} \\ &\ell_{72} = \begin{bmatrix} 0 & 1 & 0 & \gamma^5 \\ 0 & 0 & 1 & \gamma \end{bmatrix}_{4697} = \begin{bmatrix} 0 & 1 & 0 & 5 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{4697} = \mathbf{PI}(0,2,0,7,0,1)_{869} \\ &\ell_{74} = \begin{bmatrix} 0 & 1 & 0 & \gamma^5 \\ 0 & 0 & 1 & \gamma^6 \end{bmatrix}_{4697} = \begin{bmatrix} 0 & 1 & 0 & 5 \\ 0 & 0 & 1 & 5 \end{bmatrix}_{4698} = \mathbf{PI}(0,2,0,7,0,1)_{869} \\ &\ell_{75} = \begin{bmatrix} 0 & 1 & 0 & \gamma^6 \\ 0 & 0 & 1 & \gamma^6 \end{bmatrix}_{4729} = \begin{bmatrix} 0 & 1 & 0 & 6 \\ 0 & 0 & 1 & 5 \end{bmatrix}_{4698} = \mathbf{PI}(0,4,0,2,0,1)_{795} \\ &\ell_{79} = \begin{bmatrix} 0 & 1 & 0 & \gamma^5 \\ 0 & 0 & 1 & \gamma^5 \end{bmatrix}_{4729} = \begin{bmatrix} 0 & 1 & 0 & 6 \\ 0 & 0 & 1 & 2 \end{bmatrix}_{4710} = \mathbf{PI}(0,4,0,2,0,1)_{795} \\ &\ell_{79} = \begin{bmatrix} 0 & 1 & 0 & \gamma^4 \\ 0 & 0 & 1 & \gamma^3 \end{bmatrix}_{4700} = \begin{bmatrix} 0 & 1 & 0 & 5 \\ 0 & 0 & 1 & 5 \end{bmatrix}_{4700} = \mathbf{PI}(0,5,0,5,0,1)_{843} \\ &\ell_{80} = \begin{bmatrix} 0 & 1 & 0 &$$

$$\ell_{83} = \begin{bmatrix} 0 & 1 & \gamma^3 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{4725} = \begin{bmatrix} 0 & 1 & 5 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{4725} = \mathbf{Pl}(0, 5, 0, 1, 0, 0)_{29}$$

$$\ell_{84} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & \gamma^4 \end{bmatrix}_{4688} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 7 \end{bmatrix}_{4688} = \mathbf{Pl}(0, 1, 0, 7, 0, 1)_{867}$$

$$\ell_{85} = \begin{bmatrix} 0 & 1 & 0 & \gamma^6 \\ 0 & 0 & 1 & \gamma^3 \end{bmatrix}_{4731} = \begin{bmatrix} 0 & 1 & 0 & 6 \\ 0 & 0 & 1 & 5 \end{bmatrix}_{4731} = \mathbf{Pl}(0, 6, 0, 5, 0, 1)_{842}$$

$$\ell_{86} = \begin{bmatrix} 0 & 1 & 0 & \gamma^2 \\ 0 & 0 & 1 & \gamma^6 \end{bmatrix}_{4714} = \begin{bmatrix} 0 & 1 & 0 & 4 \\ 0 & 0 & 1 & 6 \end{bmatrix}_{4714} = \mathbf{Pl}(0, 4, 0, 6, 0, 1)_{855}$$

$$\ell_{87} = \begin{bmatrix} 0 & 1 & 0 & \gamma^5 \\ 0 & 0 & 1 & \gamma^2 \end{bmatrix}_{4703} = \begin{bmatrix} 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 4 \end{bmatrix}_{4703} = \mathbf{Pl}(0, 3, 0, 4, 0, 1)_{824}$$

$$\ell_{88} = \begin{bmatrix} 0 & 1 & 0 & \gamma^4 \\ 0 & 0 & 1 & \gamma \end{bmatrix}_{4737} = \begin{bmatrix} 0 & 1 & 0 & 7 \\ 0 & 0 & 1 & 2 \end{bmatrix}_{4737} = \mathbf{Pl}(0, 7, 0, 2, 0, 1)_{798}$$

$$\ell_{89} = \begin{bmatrix} 0 & 1 & 0 & \gamma \\ 0 & 0 & 1 & \gamma^5 \end{bmatrix}_{4693} = \begin{bmatrix} 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & 3 \end{bmatrix}_{4693} = \mathbf{Pl}(0, 2, 0, 3, 0, 1)_{808}$$

$$\ell_{90} = \begin{bmatrix} 0 & 1 & 0 & \gamma^3 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{4718} = \begin{bmatrix} 0 & 1 & 0 & 5 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{4718} = \mathbf{Pl}(0, 5, 0, 1, 0, 1)_{781}$$

Rank of lines: (0, 64, 4672, 4680, 584, 4673, 4678, 4676, 4675, 4679, 4674, 4677, 4744, 648, 4681, 4726, 4708, 4699, 4735, 4690, 4717, 666, 750, 832, 915, 995, 1073, 1153, 82, 489, 331, 248, 569, 166, 411, 4689, 4682, 4732, 4712, 4702, 4742, 4692, 4722, 4734, 4683, 4727, 4713, 4705, 4738, 4694, ...4737, 4693, 4718) Rank of points on Klein quadric: <math>(0, 2, 649, 17, 18, 769, 844, 814, 799, 859, 784, 829, 1, 10, 657, 662, 660, 659, 663, 658, 661, 1323, 1343, 1356, 1370, 1389, 1399, 1417, 1224, 1260, 1247, 1241, 1270, 1236, 1258, 25, 777, 857, 825, 809, 873, 793, 841, 30, 792, 782, 840, 854, 813, 823, ...798, 808, 781)

Eckardt Points

The surface has 0 Eckardt points:

Double Points

The surface has 72 Double points: The double points on the surface are:

$P_0 = (1, 0, 0, 0) = \ell_0 \cap \ell_1$
$P_5 = (1, 1, 0, 0) = \ell_0 \cap \ell_{21}$
$P_6 = (2, 1, 0, 0) = \ell_0 \cap \ell_{22}$
$P_7 = (3, 1, 0, 0) = \ell_0 \cap \ell_{23}$
$P_8 = (4, 1, 0, 0) = \ell_0 \cap \ell_{24}$
$P_9 = (5, 1, 0, 0) = \ell_0 \cap \ell_{25}$
$P_{10} = (6, 1, 0, 0) = \ell_0 \cap \ell_{26}$
$P_{11} = (7, 1, 0, 0) = \ell_0 \cap \ell_{27}$
$P_{12} = (1, 0, 1, 0) = \ell_1 \cap \ell_{28}$
$P_{13} = (2,0,1,0) = \ell_1 \cap \ell_{29}$
$P_{14} = (3,0,1,0) = \ell_1 \cap \ell_{30}$
$P_{15} = (4, 0, 1, 0) = \ell_1 \cap \ell_{31}$
$P_{16} = (5, 0, 1, 0) = \ell_1 \cap \ell_{32}$
$P_{17} = (6, 0, 1, 0) = \ell_1 \cap \ell_{33}$
$P_{18} = (7, 0, 1, 0) = \ell_1 \cap \ell_{34}$

$$\begin{split} P_{75} &= (1,0,0,1) = \ell_4 \cap \ell_{13} \\ P_{83} &= (1,1,0,1) = \ell_4 \cap \ell_{28} \\ P_{91} &= (1,2,0,1) = \ell_4 \cap \ell_{29} \\ P_{99} &= (1,3,0,1) = \ell_4 \cap \ell_{30} \\ P_{107} &= (1,4,0,1) = \ell_4 \cap \ell_{31} \\ P_{115} &= (1,5,0,1) = \ell_4 \cap \ell_{32} \\ P_{123} &= (1,6,0,1) = \ell_4 \cap \ell_{33} \\ P_{131} &= (1,7,0,1) = \ell_4 \cap \ell_{34} \\ P_{139} &= (1,0,1,1) = \ell_{13} \cap \ell_{21} \\ P_{202} &= (1,0,2,1) = \ell_{13} \cap \ell_{22} \\ P_{266} &= (1,0,3,1) = \ell_{13} \cap \ell_{23} \\ P_{330} &= (1,0,4,1) = \ell_{13} \cap \ell_{24} \\ P_{394} &= (1,0,5,1) = \ell_{13} \cap \ell_{25} \\ P_{458} &= (1,0,6,1) = \ell_{13} \cap \ell_{26} \\ P_{522} &= (1,0,7,1) = \ell_{13} \cap \ell_{27} \end{split}$$

 $P_{156} = (3, 2, 1, 1) = \ell_{21} \cap \ell_{29}$ $P_{163} = (2, 3, 1, 1) = \ell_{21} \cap \ell_{30}$ $P_{174} = (5, 4, 1, 1) = \ell_{21} \cap \ell_{31}$ $P_{181} = (4, 5, 1, 1) = \ell_{21} \cap \ell_{32}$ $P_{192} = (7, 6, 1, 1) = \ell_{21} \cap \ell_{33}$ $P_{199} = (6, 7, 1, 1) = \ell_{21} \cap \ell_{34}$ $P_{212} = (3, 1, 2, 1) = \ell_{22} \cap \ell_{28}$ $P_{222} = (5, 2, 2, 1) = \ell_{22} \cap \ell_{29}$ $P_{232} = (7, 3, 2, 1) = \ell_{22} \cap \ell_{30}$ $P_{237} = (4, 4, 2, 1) = \ell_{22} \cap \ell_{31}$ $P_{247} = (6, 5, 2, 1) = \ell_{22} \cap \ell_{32}$ $P_{259} = (2,7,2,1) = \ell_{22} \cap \ell_{34}$ $P_{275} = (2, 1, 3, 1) = \ell_{23} \cap \ell_{28}$ $P_{288} = (7, 2, 3, 1) = \ell_{23} \cap \ell_{29}$ $P_{293} = (4, 3, 3, 1) = \ell_{23} \cap \ell_{30}$ $P_{308} = (3, 5, 3, 1) = \ell_{23} \cap \ell_{32}$ $P_{319} = (6, 6, 3, 1) = \ell_{23} \cap \ell_{33}$ $P_{326} = (5, 7, 3, 1) = \ell_{23} \cap \ell_{34}$ $P_{342} = (5, 1, 4, 1) = \ell_{24} \cap \ell_{28}$ $P_{349} = (4, 2, 4, 1) = \ell_{24} \cap \ell_{29}$ $P_{367} = (6, 4, 4, 1) = \ell_{24} \cap \ell_{31}$ $P_{371} = (2, 5, 4, 1) = \ell_{24} \cap \ell_{32}$

 $P_{380} = (3, 6, 4, 1) = \ell_{24} \cap \ell_{33}$ $P_{392} = (7,7,4,1) = \ell_{24} \cap \ell_{34}$ $P_{405} = (4, 1, 5, 1) = \ell_{25} \cap \ell_{28}$ $P_{415} = (6, 2, 5, 1) = \ell_{25} \cap \ell_{29}$ $P_{420} = (3, 3, 5, 1) = \ell_{25} \cap \ell_{30}$ $P_{427} = (2, 4, 5, 1) = \ell_{25} \cap \ell_{31}$ $P_{440} = (7, 5, 5, 1) = \ell_{25} \cap \ell_{32}$ $P_{446} = (5, 6, 5, 1) = \ell_{25} \cap \ell_{33}$ $P_{472} = (7, 1, 6, 1) = \ell_{26} \cap \ell_{28}$ $P_{487} = (6, 3, 6, 1) = \ell_{26} \cap \ell_{30}$ $P_{492} = (3, 4, 6, 1) = \ell_{26} \cap \ell_{31}$ $P_{502} = (5, 5, 6, 1) = \ell_{26} \cap \ell_{32}$ $P_{507} = (2, 6, 6, 1) = \ell_{26} \cap \ell_{33}$ $P_{517} = (4,7,6,1) = \ell_{26} \cap \ell_{34}$ $P_{535} = (6, 1, 7, 1) = \ell_{27} \cap \ell_{28}$ $P_{539} = (2, 2, 7, 1) = \ell_{27} \cap \ell_{29}$ $P_{550} = (5, 3, 7, 1) = \ell_{27} \cap \ell_{30}$ $P_{560} = (7, 4, 7, 1) = \ell_{27} \cap \ell_{31}$ $P_{573} = (4, 6, 7, 1) = \ell_{27} \cap \ell_{33}$ $P_{580} = (3, 7, 7, 1) = \ell_{27} \cap \ell_{34}$

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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Neighbor sets in the line intersection graph:

Line 0 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_{21}	ℓ_{22}	ℓ_{23}	ℓ_{24}	ℓ_{25}	ℓ_{26}	ℓ_{27}
in point	P_0	P_1	P_1	P_5	P_6	P_7	P_8	P_9	P_{10}	P_{11}								

Line 1 intersects

Line	ℓ_0	ℓ_2	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{28}	ℓ_{29}	ℓ_{30}	ℓ_{31}	ℓ_{32}	ℓ_{33}	ℓ_{34}
in point	P_0	P_2	P_2	P_2	P_2	P_2	P_2	P_2	P_2	P_2	P_2	P_{12}	P_{13}	P_{14}	P_{15}	P_{16}	P_{17}	P_{18}

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}	ℓ_{35}	ℓ_{36}
in point	P_1	P_2	P_1	P_1	P_2	P_{19}	P_{19}															

Line 3 intersects

Line	ℓ_0	ℓ_2	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}	ℓ_{20}	ℓ_{35}	ℓ_{36}	ℓ_3
in point	P_1	P_1	P_3	P_{82}	P_{90}	P_{98}	P_{106}	P_{114}	P_{122}	P_{130}	P_3	P_{82}	P_9								

Line 4 intersects

Line	ℓ_0	ℓ_2	ℓ_3	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{13}	ℓ_{28}	ℓ_{29}	ℓ_{30}	ℓ_{31}	ℓ_{32}	ℓ_{33}	ℓ_{34}
in point	P_1	P_1	P_{75}	P_{83}	P_{91}	P_{99}	P_{107}	P_{115}	P_{123}	P_{131}								

Line 5 intersects

Line	ℓ_0	ℓ_2	ℓ_3	ℓ_4	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}	ℓ_{20}	ℓ_{21}	ℓ_2
in point	P_1	P_1	P_{138}	P_{146}	P_{153}	P_{161}	P_{169}	P_{177}	P_{185}	P_{193}	P_{146}	P_{14}								

Line 6 intersects

Line	ℓ_0	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{22}	ℓ_3
in point	P_1	P_1	P_{201}	P_{209}	P_{217}	P_{225}	P_{233}	P_{241}	P_{249}	P_{257}	P_{249}	P_{24}								

Line 7 intersects

Line	ℓ_0	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{23}	ℓ_3
in point	P_1	P_1	P_{265}	P_{273}	P_{281}	P_{289}	P_{297}	P_{305}	P_{313}	P_{321}	P_{297}	P_{29}								

Line 8 intersects

Line	ℓ_0	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{24}	ℓ_3
in point	P_1	P_1	P_{329}	P_{337}	P_{345}	P_{353}	P_{361}	P_{369}	P_{377}	P_{385}	P_{353}	P_{3}								

Line 9 intersects

Line	ℓ_0	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{25}	ℓ_3
in point	P_1	P_1	P_{393}	P_{401}	P_{409}	P_{417}	P_{425}	P_{433}	P_{441}	P_{449}	P_{449}	P_{44}								

Line 10 intersects

Line	ℓ_0	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{11}	ℓ_{12}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{26}	ℓ_{29}
in point	P_1	P_{457}	P_{465}	P_{473}	P_{481}	P_{489}	P_{497}	P_{505}	P_{513}	P_{473}	P_{47}									

Line 11 intersects

Line	ℓ_0	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{12}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{27}	ℓ_{32}
in point	P_1	P_{521}	P_{529}	P_{537}	P_{545}	P_{553}	P_{561}	P_{569}	P_{577}	P_{561}	P_{56}									

Line	ℓ_1	ℓ_2	ℓ_3	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}	ℓ_{19}	ℓ_{20}	ℓ_{35}	ℓ_{36}
in point	P_2	P_2	P_3	P_{138}	P_{201}	P_{265}	P_{329}	P_{393}	P_{457}	P_{521}	P_2	P_3	P_{13}							

Line 13 intersects

Line	ℓ_1	ℓ_2	ℓ_4	ℓ_{12}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ_{22}	ℓ_{23}	ℓ_{24}	ℓ_{25}	ℓ_{26}	ℓ_{27}
in point	P_2	P_2	P_{75}	P_2	P_{139}	P_{202}	P_{266}	P_{330}	P_{394}	P_{458}	P_{522}							

Line 14 intersects

Line	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_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	1
in point	P_2	P_2	P_{82}	P_{146}	P_{209}	P_{273}	P_{337}	P_{401}	P_{465}	P_{529}	P_2	P_{146}	$\mid F \mid$							

${\bf Line~15~intersects}$

Line	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_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{26}	
in point	P_2	P_2	P_{90}	P_{153}	P_{217}	P_{281}	P_{345}	P_{409}	P_{473}	P_{537}	P_2	P_{473}	F							

Line 16 intersects

Line	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_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{24}	- (
in point	P_2	P_2	P_{98}	P_{161}	P_{225}	P_{289}	P_{353}	P_{417}	P_{481}	P_{545}	P_2	P_{353}	F							

Line 17 intersects

Line	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_{18}	ℓ_{19}	ℓ_{20}	ℓ_{23}
in point	P_2	P_2	P_{106}	P_{169}	P_{233}	P_{297}	P_{361}	P_{425}	P_{489}	P_{553}	P_2	P_{297}							

Line 18 intersects

Line	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_{19}	ℓ_{20}	ℓ_{27}	
in point	P_2	P_2	P_{114}	P_{177}	P_{241}	P_{305}	P_{369}	P_{433}	P_{497}	P_{561}	P_2	P_{561}								

${\rm Line}\ 19\ {\rm intersects}$

Line	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_{20}	ℓ_{22}
in point	P_2	P_2	P_{122}	P_{185}	P_{249}	P_{313}	P_{377}	P_{441}	P_{505}	P_{569}	P_2	P_{249}							

Line 20 intersects

Line	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}	ℓ_{25}	Γ
in point	P_2	P_2	P_{130}	P_{193}	P_{257}	P_{321}	P_{385}	P_{449}	P_{513}	P_{577}	P_2	P_{449}								

Line 21 intersects

	Line	ℓ_0	ℓ_5	ℓ_{13}	ℓ_{14}	ℓ_{28}	ℓ_{29}	ℓ_{30}	ℓ_{31}	ℓ_{32}	ℓ_{33}	ℓ_{34}	ℓ_{35}	ℓ_{46}	ℓ_{53}	ℓ_{64}	ℓ_{71}	ℓ_{82}
ſ	in point	P_5	P_{146}	P_{139}	P_{146}	P_{146}	P_{156}	P_{163}	P_{174}	P_{181}	P_{192}	P_{199}	P_{146}	P_{146}	P_{146}	P_{146}	P_{146}	P_{146} .

Line 22 intersects

Line	ℓ_0	ℓ_6	ℓ_{13}	ℓ_{19}	ℓ_{28}	ℓ_{29}	ℓ_{30}	ℓ_{31}	ℓ_{32}	ℓ_{33}	ℓ_{34}	ℓ_{39}	ℓ_{45}	ℓ_{51}	ℓ_{62}	ℓ_{68}	ℓ_{82}	
in point	P_6	P_{249}	P_{202}	P_{249}	P_{212}	P_{222}	P_{232}	P_{237}	P_{247}	P_{249}	P_{259}	P_{249}	P_{249}	P_{249}	P_{249}	P_{249}	P_{249}	Γ.

Line 23 intersects

Line	ℓ_0	ℓ_7	ℓ_{13}	ℓ_{17}	ℓ_{28}	ℓ_{29}	ℓ_{30}	ℓ_{31}	ℓ_{32}	ℓ_{33}	ℓ_{34}	ℓ_{42}	ℓ_{45}	ℓ_{52}	ℓ_{64}	ℓ_{73}	ℓ_{78}
in point	P_7	P_{297}	P_{266}	P_{297}	P_{275}	P_{288}	P_{293}	P_{297}	P_{308}	P_{319}	P_{326}	P_{297}	P_{297}	P_{297}	P_{297}	P_{297}	$ P_{297} $

${\rm Line}~24~{\rm intersects}$

Line	ℓ_0	ℓ_8	ℓ_{13}	ℓ_{16}	ℓ_{28}	ℓ_{29}	ℓ_{30}	ℓ_{31}	ℓ_{32}	ℓ_{33}	ℓ_{34}	ℓ_{42}	ℓ_{49}	ℓ_{53}	ℓ_{63}	ℓ_{67}	ℓ_{76}
in point	P_8	P_{353}	P_{330}	P_{353}	P_{342}	P_{349}	P_{353}	P_{367}	P_{371}	P_{380}	P_{392}	P_{353}	P_{353}	P_{353}	P_{353}	P_{353}	P_{353}

T. 05.																	
Line 25 in	tersec	ts															
Line	ℓ_0	ℓ_9	ℓ_{13}	ℓ_{20}	ℓ_{28}	ℓ_{29}	ℓ_{30}	ℓ_{31}	ℓ_{32}	ℓ_{33}	ℓ_{34}	ℓ_{37}	ℓ_{43}	ℓ_{56}	ℓ_{63}	ℓ_{68}	ℓ_{78}
in point	P_9	P_{449}	P_{394}	P_{449}	P_{405}	P_{415}	P_{420}	P_{427}	P_{440}	P_{446}	P_{449}						
Line 26 in	$_{ m tersec}$	ts															
Line	ℓ_0	ℓ_{10}	ℓ_{13}	ℓ_{15}	ℓ_{28}	ℓ_{29}	ℓ_{30}	ℓ_{31}	ℓ_{32}	ℓ_{33}	ℓ_{34}	ℓ_{39}	ℓ_{46}	ℓ_{56}	ℓ_{59}	ℓ_{73}	ℓ_{76}
in point	P_{10}	P_{473}	P_{458}	P_{473}	P_{472}	P_{473}	P_{487}	P_{492}	P_{502}	P_{507}	P_{517}	P_{473}	P_{473}	P_{473}	P_{473}	P_{473}	P_{473}
Line 27 in	tersec																
Line	ℓ_0	ℓ_{11}	ℓ_{13}	ℓ_{18}	ℓ_{28}	ℓ_{29}	ℓ_{30}	ℓ_{31}	ℓ_{32}	ℓ_{33}	ℓ_{34}	ℓ_{37}	ℓ_{49}	ℓ_{52}	ℓ_{62}	ℓ_{71}	ℓ_{75}
in point	P_{11}	P_{561}	P_{522}	P_{561}	P_{535}	P_{539}	P_{550}	P_{560}	P_{561}	P_{573}	P_{580}	P_{561}	P_{561}	P_{561}	P_{561}	P_{561}	P_{561}
Line 28 in	$_{ m tersec}$	ts															
Line	ℓ_1	ℓ_4	ℓ_5	ℓ_{14}	ℓ_{21}	ℓ_{22}	ℓ_{23}	ℓ_{24}	ℓ_{25}	ℓ_{26}	ℓ_{27}	ℓ_{35}	ℓ_{46}	ℓ_{53}	ℓ_{64}	ℓ_{71}	ℓ_{82}
in point	P_{12}	P_{83}	P_{146}	P_{146}	P_{146}	P_{212}	P_{275}	P_{342}	P_{405}	P_{472}	P_{535}	P_{146}	P_{146}	P_{146}	P_{146}	P_{146}	P_{146}
Line 29 in	tersec	ts															
Line	ℓ_1	ℓ_4	ℓ_{10}	ℓ_{15}	ℓ_{21}	ℓ_{22}	ℓ_{23}	ℓ_{24}	ℓ_{25}	ℓ_{26}	ℓ_{27}	ℓ_{39}	ℓ_{46}	ℓ_{56}	ℓ_{59}	ℓ_{73}	ℓ_{76}
in point	P_{13}	P_{91}	P_{473}	P_{473}	P_{156}	P_{222}	P_{288}	P_{349}	P_{415}	P_{473}	P_{539}	P_{473}	P_{473}	P_{473}	P_{473}	P_{473}	P_{473}
Line 30 in	$_{ m tersec}$	ts															
Line	ℓ_1	ℓ_4	ℓ_8	ℓ_{16}	ℓ_{21}	ℓ_{22}	ℓ_{23}	ℓ_{24}	ℓ_{25}	ℓ_{26}	ℓ_{27}	ℓ_{42}	ℓ_{49}	ℓ_{53}	ℓ_{63}	ℓ_{67}	ℓ_{76}
in point	P_{14}	P_{99}	P_{353}	P_{353}	P_{163}	P_{232}	P_{293}	P_{353}	P_{420}	P_{487}	P_{550}	P_{353}	P_{353}	P_{353}	P_{353}	P_{353}	P_{353}
Line 31 in	tersec	ts															
Line	ℓ_1	ℓ_4	ℓ_7	ℓ_{17}	ℓ_{21}	ℓ_{22}	ℓ_{23}	ℓ_{24}	ℓ_{25}	ℓ_{26}	ℓ_{27}	ℓ_{42}	ℓ_{45}	ℓ_{52}	ℓ_{64}	ℓ_{73}	ℓ_{78}
in point	P_{15}	P_{107}	P_{297}	P_{297}	P_{174}	P_{237}	P_{297}	P_{367}	P_{427}	P_{492}	P_{560}	P_{297}	P_{297}	P_{297}	P_{297}	P_{297}	P_{297}
Line 32 in	tersec	ts															
Line	ℓ_1	ℓ_4	ℓ_{11}	ℓ_{18}	ℓ_{21}	ℓ_{22}	ℓ_{23}	ℓ_{24}	ℓ_{25}	ℓ_{26}	ℓ_{27}	ℓ_{37}	ℓ_{49}	ℓ_{52}	ℓ_{62}	ℓ_{71}	ℓ_{75}
in point	D	D	D	D	D	D	Dana	D	D	D	D	D	D	D	D	D. a.	D

Line	ℓ_1	ℓ_4	ℓ_{11}	ℓ_{18}	ℓ_{21}	ℓ_{22}	ℓ_{23}	ℓ_{24}	ℓ_{25}	ℓ_{26}	ℓ_{27}	ℓ_{37}	ℓ_{49}	ℓ_{52}	ℓ_{62}	ℓ_{71}	ℓ_{75}
in point	P_{16}	P_{115}	P_{561}	P_{561}	P_{181}	P_{247}	P_{308}	P_{371}	P_{440}	P_{502}	P_{561}						
Line 33 in	tersec	ts															
т.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Line	ℓ_1	ℓ_4	ℓ_6	ℓ_{19}	ℓ_{21}	ℓ_{22}	ℓ_{23}	ℓ_{24}	ℓ_{25}	ℓ_{26}	ℓ_{27}	ℓ_{39}	ℓ_{45}	ℓ_{51}	ℓ_{62}	ℓ_{68}	ℓ_{82}
in point	P_{17}	P_{123}	P_{249}	P_{249}	P_{192}	P_{249}	P_{319}	P_{380}	P_{446}	P_{507}	P_{573}	P_{249}	P_{249}	P_{249}	P_{249}	P_{249}	P_{249}
Line 34 in	tersect	ts															

Line	ℓ_1	ℓ_4	ℓ_9	ℓ_{20}	ℓ_{21}	ℓ_{22}	ℓ_{23}	ℓ_{24}	ℓ_{25}	ℓ_{26}	ℓ_{27}	ℓ_{37}	ℓ_{43}	ℓ_{56}	ℓ_{63}	ℓ_{68}	ℓ_{78}
in point	P_{18}	P_{131}	P_{449}	P_{449}	P_{199}	P_{259}	P_{326}	P_{392}	P_{449}	P_{517}	P_{580}	P_{449}	P_{449}	P_{449}	P_{449}	P_{449}	P_{449}

Line 35 in	tersec	ts																
Line	ℓ_2	ℓ_3	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}	ℓ_{20}	ℓ_2
in point	P_{19}	P_3	P_{146}	P_{217}	P_{289}	P_{361}	P_{433}	P_{505}	P_{577}	P_3	P_{146}	P_{217}	P_{289}	P_{361}	P_{433}	P_{505}	P_{577}	P_{14}

Line 36 int	i ersec†	ts																
Line	ℓ_2	ℓ_3	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}	ℓ_{20}	ℓ
in point	P_{19}	P_{82}	P_{138}	P_{225}	P_{281}	P_{369}	P_{425}	P_{513}	P_{569}	P_{138}	P_{82}	P_{281}	P_{225}	P_{425}	P_{369}	P_{569}	P_{513}	P

Line 37 int	tersect	ïs																
Line	ℓ_2	ℓ_3	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}	ℓ_{20}	ℓ
in point	P_{19}	P_{90}	P_{161}	P_{201}	P_{273}	P_{377}	P_{449}	P_{489}	P_{561}	P_{201}	P_{273}	P_{90}	P_{161}	P_{489}	P_{561}	P_{377}	P_{449}	P

Line 38 int	ersect	ts																
Line	ℓ_2	ℓ_3	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}	ℓ_{20}	ℓ
in point	P_{19}	P_{98}	P_{153}	P_{209}	P_{265}	P_{385}	P_{441}	P_{497}	P_{553}	P_{265}	P_{209}	P_{153}	P_{98}	P_{553}	P_{497}	P_{441}	P_{385}	P
Line 39 int	ersect	ts																
Line	ℓ_2	ℓ_3	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{14}	ℓ_{15}	ℓ_{16}			ℓ_{19}	ℓ_{20}	
in point	P_{19}	P_{106}	P_{177}	P_{249}	P_{321}	P_{329}	P_{401}	P_{473}	P_{545}	P_{329}	P_{401}	P_{473}	P_{545}	P_{106}	P_{177}	P_{249}	P_{32}	1
Line 40 int	ersect	ts																
Line	ℓ_2	ℓ_3	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{14}	ℓ_{15}	ℓ_{16}		ℓ_{18}	ℓ_{19}	ℓ_{20}	
in point	P_{19}	P_{114}	P_{169}	P_{257}	P_{313}	P_{337}	P_{393}	P_{481}	P_{537}	P_{393}	P_{337}	P_{537}	P_{481}	P_{169}	P_{114}	P_{313}	P_{25}	7
Line 41 int	ersect	ts																
Line	ℓ_2	ℓ_3	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_{20}	,
in point	P_{19}	P_{122}				P_{345}	P_{417}	P_{457}			P_{529}			P_{233}	P_{305}			3
Line 42 int	ersect	ts																
Line	ℓ_2	ℓ_3	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_{19}	ℓ_{20}	
in point	P_{19}	P_{130}	P_{185}	P_{241}	P_{297}	P_{353}	P_{409}		P_{521}	P_{521}	P_{465}	P_{409}	P_{353}	P_{297}	P_{241}		P_{13}	
Line 43 int	ersect	ts																
Line	ℓ_2	ℓ_3	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}					ℓ_{16}	ℓ_{17}		ℓ_{19}	ℓ_{20}	ℓ_2
in point	P_{27}	P_3	P_{153}	P_{233}	P_{313}	P_{369}	P_{449}	P_{465}	P_{545}	P_3 P	$P_{465} \mid F$	P_{153} I	$P_{545} = I$	P_{233}	P_{369}	P_{313}	P_{449}	P_{44}
Line 44 int	ersect	ts																
Line	ℓ_2	ℓ_3	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}	ℓ_{20}	ℓ
in point	P_{27}	P_{82}	P_{161}	P_{241}	P_{321}	P_{361}	P_{441}	P_{457}	P_{537}	P_{457}	P_{82}	P_{537}	P_{161}	P_{361}	P_{241}	P_{441}	P_{321}	P
Line 45 int	ersect	ts																
Line	ℓ_2	ℓ_3	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}	ℓ_{20}	ℓ
in point	P_{27}	P_{90}	P_{138}	P_{249}	P_{297}	P_{385}	P_{433}	P_{481}	P_{529}	P_{138}	P_{529}	P_{90}	P_{481}	P_{297}	P_{433}	P_{249}	P_{385}	$\mid P$
Line 46 int	ersect	ts																
Line	ℓ_2	ℓ_3	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}	ℓ_{20}	ℓ
in point	P_{27}	P_{98}	P_{146}	P_{257}	P_{305}	P_{377}	P_{425}	P_{473}	P_{521}	P_{521}	P_{146}	P_{473}	P_{98}	P_{425}	P_{305}	P_{377}	P_{257}	P
Line 47 int	ersect	ts																
Line	ℓ_2	ℓ_3	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{14}	ℓ_{15}	ℓ_{16}				ℓ_{20}	
in point	P_{27}	P_{106}	P_{185}	P_{201}	P_{281}	P_{337}	P_{417}	P_{497}	P_{577}	P_{201}	P_{337}	P_{281}	P_{417}	P_{106}	P_{497}		P_{57}	7
Line 48 int	ersect	ts																
Line	ℓ_2	ℓ_3	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}	ℓ_{20})

Line	ℓ_2	ℓ_3	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}	ℓ_{20}
in point	P_{27}	P_{114}	P_{193}	P_{209}	P_{289}	P_{329}	P_{409}	P_{489}	P_{569}	P_{329}	P_{209}	P_{409}	P_{289}	P_{489}	P_{114}	P_{569}	P_{193}
Line 49 int	tersect	S															
Line	ℓ_2	ℓ_3	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}	ℓ_{20}
in point	P_{27}	P_{122}	P_{169}	P_{217}	P_{265}	P_{353}	P_{401}	P_{513}	P_{561}	P_{265}	P_{401}	P_{217}	P_{353}	P_{169}	P_{561}	P_{122}	P_{513}
Line 50 int	tersect	īs.															
Line	ℓ_2	ℓ_3	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}	ℓ_{20}
in point	P_{27}	P_{130}	P_{177}	P_{225}	P_{273}	P_{345}	P_{393}	P_{505}	P_{553}	P_{393}	P_{273}	P_{345}	P_{225}	P_{553}	P_{177}	P_{505}	P_{130}
							12										·

Line 51 in	tersec	ts																		
Line	ℓ_2	ℓ_3	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_1		ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}		ℓ_{20}	ℓ_2
in point	P_{35}	P_3	P_{161}	P_{249}	P_{305}	P_{337}	P_{409}	P_{513}	P_{553}	P_3	P_3	337 <i>I</i>	P ₄₀₉	P_{161}	P_{553}	P_{305}	P_{24}	9 -	P_{513}	P_2
Line 52 in	tersec	ts																		
Line	ℓ_2	ℓ_3	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}		19	ℓ_{20}	
in point	P_{35}	P_{82}	P_{153}	P_{257}	P_{297}	P_{329}	P_{417}	P_{505}	P_{561}	P_{32}	29	P_{82}	P_{153}	P_{417}	P_{297}	P_{56}	$1 \mid P$	505	P_{257}	
Line 53 in																				
Line in point	ℓ_2 P_{35}	ℓ_3 P_{90}	ℓ_5 P_{146}	ℓ_6 P_{233}	ℓ_7 P_{321}	ℓ_8 P_{353}	ℓ_9 P_{393}	ℓ_{10} P_{497}	ℓ_{11} P_{569}	ℓ_{12}		$\frac{\ell_{14}}{P_{146}}$	ℓ_{15} P_{90}	ℓ_{16} P_{353}	ℓ_{17} P_{233}	$\begin{array}{ c c c }\hline \ell_{18} \\\hline P_{49} \end{array}$		19 569	$\frac{\ell_{20}}{P_{321}}$	1
			I 146	1 233	1 321	1 353	1 393	1 497	1 569	1 39	93	1 146	1 90	1 353	1 233	1 49	7 1 ,	569	1 321	1
Line 54 in																				
Line in point	ℓ_2 P_{35}	ℓ_3 P_{98}	ℓ_5 P_{138}	P_{241}	ℓ_7 P_{313}	ℓ_8 P_{345}	P_{401}	ℓ_{10} P_{489}	ℓ_{11} P_{577}	$\begin{array}{ c c c c }\hline \ell_{13} \\\hline P_{13} \end{array}$		$\frac{\ell_{14}}{P_{401}}$	ℓ_{15} P_{345}	ℓ_{16} P_{98}	$\begin{array}{ c c c }\hline \ell_{17} \\\hline P_{489} \end{array}$	$\begin{array}{ c c c }\hline \ell_{18} \\\hline P_{24} \end{array}$		19 313	$\frac{\ell_{20}}{P_{577}}$	
	I		1 138	1 241	1 313	1 345	1 401	1 489	1 577	1 13	38	1 401	1 345	1 98	1 489	1 24	1 1;	313	1 577	
Line 55 in												0						0		
Line in point	ℓ_2 P_{35}	ℓ_3 P_{106}	ℓ_5 P_{193}	ℓ_6 P_{217}	$\begin{array}{ c c c }\hline \ell_7 \\\hline P_{273} \end{array}$	$\frac{\ell_8}{P_{369}}$	l_9	ℓ_{10} P_{481}	ℓ_{11}		12	$\frac{\ell_{14}}{P_{273}}$	ℓ_{15}	$\frac{\ell_1}{r}$ $\frac{\ell_1}{P_{48}}$	$\frac{\ell_1}{81} P_1$	$\frac{7}{06}$ $\frac{\ell}{P}$	18 369	$\frac{\ell_{19}}{P_{441}}$	ℓ_2	03
Line 56 in			- 190	- 211	- 210	- 309	- 441	1 - 401	. - 52.	1 - 0)21	- 213	- 21	1 - 40	51 - 1	00	303	- 441	. - 1	99
			0	0		0	0	0	0	0		0	0	0	0			0	0	
Line in point	ℓ_2 P_{35}	ℓ_3 P_{114}	ℓ_5 P_{185}	ℓ_6 P_{225}	$\begin{array}{ c c c }\hline \ell_7 \\\hline P_{265} \end{array}$	ℓ_8	l_9 P_{449}	$\frac{\ell_{10}}{P_{473}}$	ℓ_{11}	$\frac{\ell_1}{q}$	12 265	$\frac{\ell_{14}}{P_{529}}$	ℓ_{15}				18 114	$\frac{\ell_{19}}{P_{185}}$	$\frac{\ell_2}{P_4}$	
Line 57 in										- -						-				
Line	ℓ_2	ℓ_3	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ρ.	12	ℓ_{14}	ℓ_{15}	ℓ_1	$\frac{\ell_1}{\ell_1}$	- I	18	ℓ_{19}	ℓ_2	
in point	P_{35}	P_{122}			P_{289}							P_{465}	P_{53}	$\frac{c_1}{c_7} \frac{c_1}{P_{28}}$				$\frac{c_{19}}{P_{122}}$		
Line 58 in	tersec	ts	•		•								'		•	•				
Line	ℓ_2	ℓ_3	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	· ·	12	ℓ_{14}	ℓ_{15}	ℓ_1	$\frac{1}{6}$ ℓ_1	7 l	18	ℓ_{19}	ℓ_2	20
in point	P_{35}	P_{130}									157	P_{209}						P_{377}		
Line 59 in	tersec	$^{ m ts}$																		
Line	ℓ_2	ℓ_3	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_1	14	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	,	ℓ_{20}	ℓ_2
in point	P_{43}	P_3	P_{169}	P_{241}	P_{273}	P_{385}	P_{417}	P_{473}	P_{569}	P_3	P_2		P_{473}	P_{417}	P_{169}	P_{241}	P_{56}	9	P_{385}	P_4
Line 60 in	tersec	ts																		
Line	ℓ_2	ℓ_3	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_1	_	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}		19	ℓ_{20}	
in point	P_{43}	P_{82}	P_{177}	P_{233}	P_{265}	P_{377}	P_{409}	P_{481}	P_{577}	P_{26}	35	P_{82}	P_{409}	P_{481}	P_{233}	P_{17}	$7 \mid P_{1}$	377	P_{577}	
Line 61 in	tersec	ts																		
Line	ℓ_2	ℓ_3	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}		19	ℓ_{20}	
in point	P_{43}	P_{90}	P_{185}	P_{257}	P_{289}	P_{369}	P_{401}	P_{457}	P_{553}	P_{45}	57	P_{401}	P_{90}	P_{289}	P_{553}	P_{36}	$P \mid P$	185	P_{257}	
Line 62 in	tersec	ts																		

 ℓ_9

 P_{393}

 ℓ_9

 P_{449}

Line

Line 63 intersects

Line ℓ_2

in point

in point

 ℓ_2

 P_{43}

 ℓ_3

 P_{98}

 P_{43} P_{106}

 ℓ_5

 P_{193}

 ℓ_5

 P_{138}

 ℓ_6

 P_{249}

 ℓ_6

 P_{209}

 ℓ_7

 P_{281}

 ℓ_7

 P_{305}

 ℓ_8

 P_{361}

 ℓ_8

 P_{353}

 ℓ_{11}

 P_{561}

 ℓ_{11}

 P_{537}

 ℓ_{12}

 P_{393}

 ℓ_{12}

 P_{138}

 ℓ_{14}

 P_{465}

 ℓ_{14}

 P_{209}

 ℓ_{15}

 P_{281}

 ℓ_{15}

 P_{537}

 ℓ_{16}

 P_{98}

 ℓ_{16}

 P_{353}

 ℓ_{17}

 P_{361}

 ℓ_{17}

 P_{106}

 ℓ_{18}

 P_{561}

 ℓ_{18}

 P_{305}

 ℓ_{19}

 P_{249}

 ℓ_{19}

 P_{505}

 ℓ_{20}

 P_{193}

 ℓ_{20}

 P_{449}

 ℓ_{10}

 P_{465}

 ℓ_{10}

 P_{505}

T.																	
	ℓ_2 ℓ_3	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}			
	$P_{43} \mid P_{114}$	P_{146}	P_{201}	P_{297}	P_{345}	P_{441}	P_{513}	P_{545}	P_{201}	P_{146}	P_{345}	P_{545}	P_{297}	P_{11}	$A \mid P_4$	$ P_{51} $	13
Line 65 inter																	
	$\begin{array}{c cc} \ell_2 & \ell_3 \\ P_{43} & P_{122} \end{array}$	ℓ_5 P_{153}	ℓ_6 P_{225}	ℓ_7 P_{321}	ℓ_8 P_{337}	ℓ_9 P_{433}	ℓ_{10} P_{489}	$\begin{array}{ c c } \ell_{11} \\ \hline P_{521} \\ \end{array}$	$\begin{array}{c c} \ell_{12} \\ P_{521} \end{array}$	ℓ_{14} P_{337}	ℓ_{15} P_{153}	ℓ_{16} P_{225}	ℓ_{17} P_{489}	ℓ_{18} P_{43}			
Line 66 inter	sects																
	$\begin{array}{c cccc} \ell_2 & \ell_3 \\ P_{43} & P_{130} \end{array}$	ℓ_5 P_{161}	ℓ_6 P_{217}	$\begin{array}{ c c c }\hline \ell_7 \\ P_{313} \end{array}$	ℓ_8 P_{329}	ℓ_9 P_{425}	ℓ_{10} P_{497}	$\begin{array}{ c c } \ell_{11} \\ \hline P_{529} \end{array}$	ℓ_{12} P_{329}	ℓ_{14} P_{529}	ℓ_{15} P_{217}	ℓ_{16} P_{161}	ℓ_{17} P_{425}	ℓ_{18}			
Line 67 inter	esects																
	$\begin{array}{c cccc} \ell_2 & \ell_3 \\ P_{51} & P_3 \end{array}$	ℓ_5 P_{177}	$\begin{array}{c c} \ell_6 & \\ \hline P_{257} & . \end{array}$	P_{281}	$\begin{array}{c c} \ell_8 \\ \hline P_{353} \end{array}$	ℓ_9 P_{441}			$\begin{array}{c cccc} \ell_{12} & I \\ \hline P_3 & I \end{array}$	ℓ_{14} ℓ_{529} I	ℓ_{15}			ℓ_{18} P_{177}	ℓ_{19} P_{441}	$\ell_{20} = P_{257}$	ℓ_2
Line 68 inter	sects													·	·		
	$\ell_2 \mid \ell_3$	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}	ℓ_{20}	1
in point F	$P_{51} \mid P_{82}$	P_{169}	P_{249}	P_{289}	P_{345}	P_{449}	P_{497}	P_{521}	P_{521}	P_{82}	P_{345}	P_{289}	P_{169}	P_{497}	P_{249}	P_{449}	P
Line 69 inter	esects																
	ℓ_2 ℓ_3	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}	ℓ_{20}	l l
in point $\mid F$ Line 70 inter	$P_{51} \mid P_{90}$	P_{193}	P_{241}	P_{265}	P_{337}	P_{425}	$\mid P_{505} \mid$	P_{545}	P_{265}	P_{337}	P_{90}	P_{545}	P_{425}	P_{241}	P_{505}	P_{193}	P
Line	$\ell_2 \mid \ell_3$	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	0	0	0	1
in point F	$P_{51} P_{98}$	P_{185}	P_{233}	P_{273}	D				- 12			1 0 10	~11	ℓ_{18}	ℓ_{19}	ℓ_{20}	1 "
		- 100	233	1 273	P_{329}	P_{433}	P_{513}	P_{537}	P_{329}	P_{273}	P_{537}	P_{98}	P_{233}	$rac{\ell_{18}}{P_{433}}$	P_{185}	ℓ_{20} P_{513}	P
Line 71 inter	sects	- 165	233	1 273	P ₃₂₉	P_{433}	P_{513}									P_{513}	P
Line	ℓ_2 ℓ_3	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	P_{537} ℓ_{11}	P_{329} ℓ_{12}	P_{273}	P_{537}	P_{98}	P_{233} ℓ_{17}	P_{433}	P_{185}	P_{513}	0
Line		ℓ_5	ℓ_6					P_{537}	P_{329}	P_{273}	P_{537}	P_{98}	P_{233} ℓ_{17}	P_{433}	P_{185}	P_{513}	0
Line	$\begin{array}{c cccc} \ell_2 & \ell_3 \\ P_{51} & P_{106} \end{array}$	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	P_{537} ℓ_{11}	P_{329} ℓ_{12}	P_{273}	P_{537}	P_{98}	P_{233} ℓ_{17}	P_{433}	P_{185}	P_{513}	0
Line Li	$\begin{array}{c cc} \ell_2 & \ell_3 \\ P_{51} & P_{106} \end{array}$ csects $\begin{array}{c cc} \ell_2 & \ell_3 \end{array}$	ℓ_5 P_{146}	$\begin{array}{ c c } & \ell_6 \\ \hline P_{225} \\ \hline \end{array}$	$\begin{array}{ c c } \ell_7 \\ P_{313} \\ \hline \end{array}$	ℓ_8 P_{385}	ℓ_9 P_{409}	ℓ_{10} P_{457}	P_{537} ℓ_{11} P_{561}	P_{329} ℓ_{12} P_{457}	P_{273} ℓ_{14} P_{146}	$egin{array}{c c} P_{537} & & & & & & & & & & & & & & & & & & &$	$\begin{array}{ c c c c }\hline P_{98} & & & \\ & \ell_{16} & P_{225} & & \\ & & \ell_{16} & & \\ & & & \end{array}$	$\begin{array}{ c c }\hline P_{233}\\\hline &\ell_{17}\\\hline &\ell_{17}\\\hline \end{array}$	$egin{array}{ c c c c c c c c c c c c c c c c c c c$	P_{185} R_{185} R_{181} R_{181} R_{181} R_{182}	$egin{array}{ c c c c c c c c c c c c c c c c c c c$	0 85
Line Li	ℓ_2 ℓ_3 ℓ_{51} P_{106}	ℓ_5 P_{146}	$\begin{array}{ c c } & \ell_6 \\ \hline P_{225} \\ \hline \end{array}$	ℓ_7 P_{313}	ℓ_8	ℓ_9 P_{409}	ℓ_{10} P_{457}	P_{537} ℓ_{11} P_{561}	P_{329} ℓ_{12} P_{457}	P_{273} ℓ_{14} P_{146}	$egin{array}{c c} P_{537} & & & & & & \\ \hline & \ell_{15} & & & & & \\ \hline & P_{409} & & & & & \\ \hline & \ell_{15} & & & & \\ \hline \end{array}$	$\begin{array}{ c c c c }\hline P_{98} & & & \\ & \ell_{16} & P_{225} & & \\ & & \ell_{16} & & \\ & & & \end{array}$	$\begin{array}{ c c }\hline P_{233}\\\hline &\ell_{17}\\\hline &\ell_{17}\\\hline &\ell_{17}\\\hline \end{array}$	$egin{array}{ c c c c c c c c c c c c c c c c c c c$	P_{185} R_{185} R_{181} R_{181} R_{181} R_{182}	$egin{array}{ c c c c c c c c c c c c c c c c c c c$	0 85
$\begin{array}{c c} \text{Line} & a \\ \text{in point} & F \\ \\ \text{Line 72 inter} \\ \hline & \text{Line} & a \\ \\ \text{in point} & F \\ \\ \\ \text{Line 73 inter} \end{array}$	$\begin{array}{c c} \ell_2 & \ell_3 \\ \hline P_{51} & P_{106} \\ \hline \end{array}$ esects $\begin{array}{c c} \ell_2 & \ell_3 \\ \hline P_{51} & P_{114} \\ \hline \end{array}$ esects	$\begin{array}{c c} \ell_5 \\ P_{146} \\ \hline \end{array}$	$\begin{array}{ c c c } & \ell_6 \\ & P_{225} \\ \hline & \ell_6 \\ & P_{217} \\ \hline \end{array}$	$\begin{array}{ c c }\hline \ell_7\\ P_{313}\\ \hline \end{array}$	$\begin{array}{ c c }\hline \ell_8\\ P_{385}\\ \hline \end{array}$	$\begin{array}{ c c c c } & \ell_9 \\ P_{409} \\ \hline \end{array}$	$\begin{array}{ c c c } \ell_{10} & \\ P_{457} & \\ \hline & \ell_{10} & \\ P_{465} & \\ \end{array}$	P_{537} ℓ_{11} P_{561} ℓ_{11} P_{553}	P_{329} ℓ_{12} P_{457} ℓ_{12} ℓ_{138}	$\begin{array}{c c} P_{273} \\ \hline & \ell_{14} \\ \hline & P_{146} \\ \hline & \ell_{14} \\ \hline & P_{465} \\ \hline \end{array}$	P_{537} ℓ_{15} P_{409} ℓ_{15} P_{217}	$egin{array}{ c c c c c c c c c c c c c c c c c c c$	P_{233} ℓ_{17} P_{106} ℓ_{17} P_{553}	$egin{array}{ c c c c c c c c c c c c c c c c c c c$	P_{185} $\frac{1}{1}$	$egin{array}{ c c c c c } P_{513} & & & & & & & & & & & & & & & & & & &$	0 85 0 21
$\begin{array}{c c} \text{Line} & A \\ \text{in point} & B \\ \end{array}$ $\begin{array}{c c} \text{Line 72 inter} \\ \hline & \text{In point} & B \\ \hline \\ \text{Line 73 inter} \\ \hline \\ \hline & \text{Line} & A \\ \hline \end{array}$	$\begin{array}{c cccc} \ell_2 & \ell_3 \\ P_{51} & P_{106} \\ \hline \end{array}$ resects $\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c c} \ell_5 \\ P_{146} \\ \hline \end{array}$	$\begin{array}{c c} \ell_6 \\ P_{225} \\ \hline \\ \ell_6 \\ P_{217} \\ \hline \\ \ell_6 \end{array}$	$\begin{array}{ c c c }\hline \ell_7\\ P_{313}\\\hline \ell_7\\ P_{321}\\\hline \ell_7\\\hline \end{array}$	$\begin{array}{ c c }\hline \ell_8\\ P_{385}\\ \hline \\ \ell_8\\ P_{377}\\ \hline \\ \ell_8\\ \end{array}$	$\begin{array}{ c c c } & \ell_9 \\ \hline P_{409} \\ \hline & \ell_9 \\ \hline & P_{417} \\ \hline & \ell_9 \\ \hline \end{array}$	ℓ_{10} P_{457} ℓ_{10} P_{465}	P_{537} ℓ_{11} P_{561} ℓ_{11} P_{553}	P_{329} $\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{ c c c }\hline P_{273} \\ \hline & \ell_{14} \\ \hline & P_{146} \\ \hline & \ell_{14} \\ \hline & \ell_{465} \\ \hline & \ell_{14} \\ \hline \end{array}$	$egin{array}{c} P_{537} & & & & \\ & \ell_{15} & & & \\ P_{409} & & & & \\ & \ell_{15} & & & \\ & P_{217} & & & \\ & & \ell_{15} & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & & \\ & &$	$egin{array}{ c c c c c c c c c c c c c c c c c c c$	$egin{array}{ c c c c c }\hline P_{233} & & & & \\ & & & & & \\ & & & & & \\ \hline & & & &$	$egin{array}{ c c c c c c c c c c c c c c c c c c c$	P_{185}	$egin{array}{ c c c c c } P_{513} & & & & & & & & & & & & & & & & & & &$	0 85 0 0 21 0
$\begin{array}{c c} \text{Line} & A \\ \text{in point} & B \\ \end{array}$ $\begin{array}{c c} \text{Line 72 inter} \\ \hline & \text{In point} & B \\ \hline \\ \text{Line 73 inter} \\ \hline & \text{Line} & A \\ \hline & \text{in point} & B \\ \end{array}$	$egin{array}{c ccc} \ell_2 & \ell_3 \\ P_{51} & P_{106} \\ \hline \end{array}$ resects $egin{array}{c ccc} \ell_2 & \ell_3 \\ \hline P_{51} & P_{114} \\ \hline \end{array}$ resects $egin{array}{c ccc} \ell_2 & \ell_3 \\ \hline P_{51} & P_{122} \\ \hline \end{array}$	$\begin{array}{c c} \ell_5 \\ P_{146} \\ \hline \end{array}$	$\begin{array}{c c} \ell_6 \\ P_{225} \\ \hline \\ \ell_6 \\ P_{217} \\ \hline \\ \ell_6 \end{array}$	$\begin{array}{ c c }\hline \ell_7\\ P_{313}\\ \hline \end{array}$	$\begin{array}{ c c }\hline \ell_8\\ P_{385}\\ \hline \end{array}$	$\begin{array}{ c c c c } & \ell_9 \\ P_{409} \\ \hline \end{array}$	$\begin{array}{ c c c } \ell_{10} & \\ P_{457} & \\ \hline & \ell_{10} & \\ P_{465} & \\ \end{array}$	P_{537} ℓ_{11} P_{561} ℓ_{11} P_{553}	P_{329} ℓ_{12} P_{457} ℓ_{12} ℓ_{138}	$\begin{array}{ c c c }\hline P_{273} \\ \hline & \ell_{14} \\ \hline & P_{146} \\ \hline & \ell_{14} \\ \hline & \ell_{465} \\ \hline & \ell_{14} \\ \hline \end{array}$	P_{537} ℓ_{15} P_{409} ℓ_{15} P_{217}	$egin{array}{ c c c c c c c c c c c c c c c c c c c$	$egin{array}{ c c c c c } P_{233} & & & & & \\ & & & & & & \\ & & & & & & $	$egin{array}{ c c c c c c c c c c c c c c c c c c c$	P_{185}	$egin{array}{ c c c c c c c c c c c c c c c c c c c$	0 85 0 0 21 0
Line 72 inter Line 72 inter Line 73 inter Line 73 inter Line 74 inter	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c c} & \ell_{5} \\ \hline P_{146} \\ \hline \end{array}$ $\begin{array}{c c} \ell_{5} \\ \hline P_{138} \\ \hline \end{array}$	$\begin{array}{ c c c } & \ell_6 \\ & P_{225} \\ \hline & \ell_6 \\ & P_{217} \\ \hline & \ell_6 \\ & P_{209} \\ \hline \end{array}$	$\begin{array}{ c c c }\hline \ell_{7} \\ P_{313} \\ \hline \ell_{7} \\ P_{321} \\ \hline \ell_{7} \\ \hline \ell_{297} \\ \hline \end{array}$	$\begin{array}{ c c c }\hline \ell_8 \\ P_{385} \\ \hline \\ \ell_8 \\ P_{377} \\ \hline \\ \ell_8 \\ P_{369} \\ \hline \end{array}$	$\begin{array}{ c c c } & \ell_9 \\ \hline P_{409} \\ \hline & P_{417} \\ \hline & \ell_9 \\ \hline & P_{393} \\ \hline \end{array}$	$\begin{array}{ c c c }\hline \ell_{10} & \ell_{10} \\\hline P_{457} & & \\\hline & \ell_{10} & P_{465} \\\hline & \ell_{10} & P_{473} \\\hline \end{array}$	$\begin{array}{c c} P_{537} \\ \hline & \ell_{11} \\ P_{561} \\ \hline & \ell_{11} \\ P_{553} \\ \hline & \ell_{11} \\ \hline & P_{577} \\ \hline \end{array}$	P_{329} ℓ_{12} P_{457} ℓ_{12} P_{138} ℓ_{12} P_{138}	$\begin{array}{ c c c }\hline P_{273} \\ \hline & \ell_{14} \\ \hline & P_{146} \\ \hline & \ell_{14} \\ \hline & P_{465} \\ \hline & \ell_{14} \\ \hline & P_{209} \\ \hline \end{array}$	$egin{array}{c} P_{537} \\ \hline & \ell_{15} \\ P_{409} \\ \hline & \ell_{15} \\ \hline & P_{217} \\ \hline & \ell_{15} \\ \hline & P_{473} \\ \hline \end{array}$	$egin{array}{ c c c c c c c c c c c c c c c c c c c$	$egin{array}{c c} P_{233} & & & & \\ & \ell_{17} & P_{106} & & \\ & \ell_{17} & P_{555} & & & \\ & \ell_{17} & P_{297} & & & \\ \hline \end{array}$	$egin{array}{ c c c c c c c c c c c c c c c c c c c$	P_{185}	$egin{array}{ c c c c c } P_{513} & & & & & & & & & & & & & & & & & & &$	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Line 72 inter Line 72 inter Line 73 inter Line 73 inter Line 74 inter Line 74 inter	$egin{array}{c ccc} \ell_2 & \ell_3 \\ P_{51} & P_{106} \\ \hline \end{array}$ resects $egin{array}{c ccc} \ell_2 & \ell_3 \\ \hline P_{51} & P_{114} \\ \hline \end{array}$ resects $egin{array}{c ccc} \ell_2 & \ell_3 \\ \hline P_{51} & P_{122} \\ \hline \end{array}$	$\begin{array}{ c c c c }\hline & \ell_5 \\ \hline P_{146} \\ \hline & \ell_5 \\ \hline & P_{138} \\ \hline & \ell_5 \\ \hline & P_{161} \\ \hline & \ell_5 \\ \hline \end{array}$	$\begin{array}{ c c c }\hline \ell_6 \\ P_{225} \\ \hline & \ell_6 \\ P_{217} \\ \hline & \ell_6 \\ \hline & P_{209} \\ \hline & \ell_6 \end{array}$	$\begin{array}{ c c c }\hline \ell_7\\ P_{313}\\\hline \ell_7\\ P_{321}\\\hline \ell_7\\\hline \end{array}$	$\begin{array}{ c c }\hline \ell_8\\ P_{385}\\ \hline \\ \ell_8\\ P_{377}\\ \hline \\ \ell_8\\ \end{array}$	$\begin{array}{ c c c } & \ell_9 \\ \hline P_{409} \\ \hline & \ell_9 \\ \hline & P_{417} \\ \hline & \ell_9 \\ \hline \end{array}$	$\begin{array}{ c c c }\hline \ell_{10} & \ell_{10} \\\hline P_{457} & & \\\hline & \ell_{10} & P_{465} \\\hline & \ell_{10} & P_{473} \\\hline & \ell_{10} & \end{array}$	P_{537} ℓ_{11} P_{561} ℓ_{11} P_{553}	P_{329} $\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{ c c c }\hline P_{273} \\ \hline & \ell_{14} \\ \hline & P_{146} \\ \hline & \ell_{14} \\ \hline & \ell_{465} \\ \hline & \ell_{14} \\ \hline \end{array}$	$egin{array}{c} P_{537} \\ \hline & \ell_{15} \\ P_{409} \\ \hline & \ell_{15} \\ \hline & P_{217} \\ \hline & \ell_{15} \\ \hline & P_{473} \\ \hline & \ell_{15} \\ \hline \end{array}$	$egin{array}{ c c c c c c c c c c c c c c c c c c c$	$egin{array}{ c c c c c c c c c c c c c c c c c c c$	$egin{array}{ c c c c c c c c c c c c c c c c c c c$	P_{185} P_{1	$egin{array}{ c c c c c c c c c c c c c c c c c c c$	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Line 72 inter Line 72 inter Line 73 inter Line 73 inter Line 74 inter Line 74 inter	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{ c c c c }\hline & \ell_5 \\ \hline P_{146} \\ \hline & \ell_5 \\ \hline & P_{138} \\ \hline & \ell_5 \\ \hline & P_{161} \\ \hline & \ell_5 \\ \hline \end{array}$	$\begin{array}{ c c c }\hline \ell_6 \\ P_{225} \\ \hline & \ell_6 \\ P_{217} \\ \hline & \ell_6 \\ \hline & P_{209} \\ \hline & \ell_6 \end{array}$	$\begin{array}{ c c c }\hline \ell_7\\ P_{313}\\\hline \ell_7\\ P_{321}\\\hline \ell_7\\ P_{297}\\\hline \ell_7\\\hline \end{array}$	$\begin{array}{ c c c }\hline \ell_8\\ P_{385}\\\hline \\ \ell_8\\ P_{377}\\\hline \\ \ell_8\\\hline \\ \ell_8\\\hline \end{array}$	$\begin{array}{ c c c } & \ell_9 \\ \hline P_{409} \\ \hline & \ell_9 \\ \hline & P_{417} \\ \hline & \ell_9 \\ \hline & \ell_9 \\ \hline & \ell_9 \\ \hline \end{array}$	$\begin{array}{ c c c }\hline \ell_{10} & \ell_{10} \\\hline P_{457} & & \\\hline & \ell_{10} & P_{465} \\\hline & \ell_{10} & P_{473} \\\hline \end{array}$	P_{537} ℓ_{11} P_{561} ℓ_{11} P_{553} ℓ_{11} P_{577}	P_{329} ℓ_{12} P_{457} ℓ_{12} P_{138} ℓ_{12} P_{393}	$\begin{array}{ c c c }\hline P_{273} \\ \hline & \ell_{14} \\ \hline & P_{146} \\ \hline & \ell_{14} \\ \hline & P_{465} \\ \hline & \ell_{14} \\ \hline & P_{209} \\ \hline & \ell_{14} \\ \hline \end{array}$	$egin{array}{c} P_{537} \\ \hline & \ell_{15} \\ P_{409} \\ \hline & \ell_{15} \\ \hline & P_{217} \\ \hline & \ell_{15} \\ \hline & P_{473} \\ \hline & \ell_{15} \\ \hline \end{array}$	$egin{array}{ c c c c c c c c c c c c c c c c c c c$	$egin{array}{ c c c c c c c c c c c c c c c c c c c$	$egin{array}{ c c c c c c c c c c c c c c c c c c c$	P_{185} P_{1	$egin{array}{ c c c c c c c c c c c c c c c c c c c$	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Line Li	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{ c c c c }\hline & \ell_5 \\ \hline P_{146} \\ \hline & \ell_5 \\ \hline & P_{138} \\ \hline & \ell_5 \\ \hline & P_{161} \\ \hline & \ell_5 \\ \hline \end{array}$	$\begin{array}{c c} \ell_{6} \\ P_{225} \\ \hline \\ \ell_{6} \\ P_{217} \\ \hline \\ \ell_{6} \\ P_{209} \\ \hline \\ \ell_{6} \\ \hline \\ \ell_{6} \\ \hline \end{array}$	$egin{array}{ c c c c c } & \ell_7 \\ P_{313} \\ \hline & \ell_7 \\ P_{321} \\ \hline & \ell_7 \\ \hline & P_{297} \\ \hline & \ell_7 \\ \hline & \ell_{705} \\ \hline & \ell_{705} \\ \hline \end{array}$	$\begin{array}{ c c c }\hline & \ell_8 \\ P_{385} \\ \hline & \ell_8 \\ \hline & P_{377} \\ \hline & \ell_8 \\ \hline & P_{369} \\ \hline & \ell_8 \\ \hline & \ell_8 \\ \hline & \ell_8 \\ \hline \end{array}$	$\begin{array}{ c c c } & \ell_{9} \\ \hline P_{409} \\ \hline & P_{401} \\ \hline \\ & P_{393} \\ \hline & \ell_{9} \\ \hline & \ell_{9} \\ \hline \end{array}$	$\begin{array}{ c c c }\hline \ell_{10} \\ P_{457} \\ \hline \\ \ell_{10} \\ P_{465} \\ \hline \\ \ell_{10} \\ P_{473} \\ \hline \\ \ell_{10} \\ \hline \\ \ell_{10} \\ \hline \end{array}$	$\begin{array}{c c} P_{537} \\ \hline & \ell_{11} \\ P_{561} \\ \hline & \ell_{11} \\ P_{553} \\ \hline & \ell_{11} \\ \hline & P_{569} \\ \hline & \ell_{11} \\ \hline \end{array}$	$\begin{array}{ c c c }\hline P_{329} \\ \hline & \ell_{12} \\ \hline & P_{457} \\ \hline & \ell_{12} \\ \hline & P_{138} \\ \hline & \ell_{12} \\ \hline & P_{393} \\ \hline & \ell_{12} \\ \hline & \ell_{201} \\ \hline \end{array}$	$\begin{array}{ c c c }\hline P_{273}\\\hline & \ell_{14}\\\hline & P_{146}\\\hline & \ell_{14}\\\hline & P_{465}\\\hline & \ell_{14}\\\hline & P_{209}\\\hline & \ell_{14}\\\hline & P_{401}\\\hline \end{array}$	$egin{array}{c c} P_{537} & & & & & & \\ \hline & \ell_{15} & P_{409} & & & & \\ \hline & \ell_{15} & P_{217} & & & & \\ \hline & \ell_{15} & P_{473} & & & \\ \hline & \ell_{15} & P_{153} & & & \\ \hline & \ell_{15} & & & & \\ \hline \end{array}$	$egin{array}{ c c c c c } \hline P_{98} & & & & & \\ \hline & \ell_{16} & P_{225} & & & \\ \hline & \ell_{16} & P_{417} & & & \\ \hline & \ell_{16} & P_{161} & & \\ \hline & \ell_{16} & P_{481} & & \\ \hline & \ell_{16} & & & \\ \hline \end{array}$	$egin{array}{ c c c c c }\hline P_{233} & & & & & \\ \hline & \ell_{17} & P_{106} & & & \\ \hline & \ell_{17} & P_{555} & & & \\ \hline & \ell_{17} & P_{297} & & \\ \hline & \ell_{17} & P_{361} & & \\ \hline \end{array}$	$egin{array}{ c c c c c c c c c c c c c c c c c c c$	P_{185} P_{1	$egin{array}{ c c c c c c c c c c c c c c c c c c c$	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

Line	76	intersects

Line	ℓ_2	ℓ_3	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}	ℓ_{20}	ℓ
in point	P_{59}	P_{82}	P_{193}	P_{201}	P_{313}	P_{353}	P_{433}	P_{473}	P_{553}	P_{201}	P_{82}	P_{473}	P_{353}	P_{553}	P_{433}	P_{313}	P_{193}	P

Line 77 int	ersec	ts																
Line	ℓ_2	ℓ_3	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}	ℓ_{20}	Γ
in point	P_{59}	P_{90}	P_{169}	P_{225}	P_{305}	P_{329}	P_{441}	P_{465}	P_{577}	P_{329}	P_{465}	P_{90}	P_{225}	P_{169}	P_{305}	P_{441}	P_{577}	-
Line 78 int	ersec	ts																
Line	ℓ_2	ℓ_3	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}	ℓ_{20}	
in point	P_{59}	P_{98}	P_{177}	P_{217}	P_{297}	P_{337}	P_{449}	P_{457}	P_{569}	P_{457}	P_{337}	P_{217}	P_{98}	P_{297}	P_{177}	P_{569}	P_{449}	-
Line 79 int	ersec	ts																
Line	ℓ_2	ℓ_3	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}	ℓ_{20}	
in point	P_{59}	P_{106}	P_{153}	P_{241}	P_{289}	P_{377}	P_{393}	P_{513}	P_{529}	P_{393}	P_{529}	P_{153}	P_{289}	P_{106}	P_{241}	P_{377}	P_{51}	3
Line 80 int	ersec	ts																
Line	ℓ_2	ℓ_3	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}	ℓ_{20}	_
in point	P_{59}	P_{114}	P_{161}	P_{233}	P_{281}	P_{385}	P_{401}	P_{505}	P_{521}	P_{521}	P_{401}	P_{281}	P_{161}	P_{233}	P_{114}	P_{50}	P_{38}	5
Line 81 int	ersec	ts																
Line	ℓ_2	ℓ_3	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_{59}	P_{122}	P_{138}	P_{257}	P_{273}	P_{361}	P_{409}	P_{497}	P_{545}	P_{138}	P_{273}	P_{409}	P_{545}	P_{361}	P_{497}	P_{122}	P_{25}	7
Line 82 int	ersec	ts																
Line	ℓ_2	ℓ_3	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}	ℓ_{20}	
in point	P_{59}	P_{130}	P_{146}	P_{249}	P_{265}	P_{369}	P_{417}	P_{489}	P_{537}	P_{265}	P_{146}	P_{537}	P_{417}	P_{489}	P_{369}	P_{249}	P_{130}	0
Line 83 int																		
Line	ℓ_2	ℓ_3	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}								ℓ_{19}	ℓ_{20}	ℓ
in point Line 84 int	P_{67}		P_{193}	P_{225}	P_{297}	P_{377}	P_{401}	P_{497}	P_{537}	$P_3 \mid P$	$P_{401} \mid P$	P ₅₃₇ 1	P_{225}	P_{297} .	$P_{497} \mid I$	2377	P_{193}	P_{2}
																		_
Line	ℓ_2	ℓ_3	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}	ℓ_{20}	L
in point	P_{67}	P_{82}	P_{185}	P_{217}	P_{305}	P_{385}	P_{393}	P_{489}	P_{545}	P_{393}	P_{82}	P_{217}	P_{545}	P_{489}	P_{305}	P_{185}	P_{385}	Ŀ
Line 85 int																		
Line	ℓ_2	ℓ_3	ℓ_5	ℓ_6	$\frac{\ell_7}{D}$	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	L
in point	P_{67}	P_{90}	P_{177}	P_{209}	P_{313}	P_{361}	P_{417}	P_{513}	P_{521}	P_{521}	P_{209}	P_{90}	P_{417}	P_{361}	P_{177}	P_{313}	P_{513}	Ŀ
Line 86 int																		
Line	ℓ_2	ℓ_3	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}	ℓ_{20}	
in point	P_{67}	P_{98}	P_{169}	P_{201}	P_{321}	P_{369}	P_{409}	P_{505}	P_{529}	P_{201}	P_{529}	P_{409}	P_{98}	P_{169}	P_{369}	P_{505}	P_{321}	<u> </u>
Line 87 int																		
Line	ℓ_2	ℓ_3	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}	ℓ_{20}	
in point	P_{67}	P_{106}	P_{161}	P_{257}	P_{265}	P_{345}	P_{433}	P_{465}	P_{569}	P_{265}	P_{465}	P_{345}	P_{161}	P_{106}	P_{433}	P_{569}	P_{25}	7
Line 88 int	ersec	$^{ m ts}$																

]	Line 89 int	tersec	ts															
	Line	ℓ_2	ℓ_3	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}	ℓ_{20}
	in point	P_{67}	P_{122}	P_{146}	P_{241}	P_{281}	P_{329}	P_{449}	P_{481}	P_{553}	P_{329}	P_{146}	P_{281}	P_{481}	P_{553}	P_{241}	P_{122}	P_{449}

 $\frac{\ell_{10}}{P_{457}}$

 $\frac{\ell_{11}}{P_{577}}$

 $\frac{\ell_{12}}{P_{457}}$

 $\begin{array}{c}\ell_{14}\\P_{273}\end{array}$

 ℓ_{15} P_{153}

 $\begin{array}{c|cc} \ell_{16} & \ell_{17} \\ \hline P_{353} & P_{425} \\ \end{array}$

 $\frac{\ell_{18}}{P_{114}}$

 ℓ_{19}

 ℓ_{20}

 ℓ_9

 P_{425}

 ℓ_2 P_{67}

 ℓ_3

 P_{114}

Line

in point

 ℓ_5 P_{153}

 $\begin{array}{c|c} \ell_6 \\ P_{249} \end{array}$

 $\begin{array}{c|c} \ell_7 & \ell_8 \\ \hline P_{273} & P_{353} \end{array}$

Line 90 intersects

Line	ℓ_2	ℓ_3	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}	ℓ_{20}
in point	P_{67}	P_{130}	P_{138}	P_{233}	P_{289}	P_{337}	P_{441}	P_{473}	P_{561}	P_{138}	P_{337}	P_{473}	P_{289}	P_{233}	P_{561}	P_{441}	P_{130}

The surface has 145 points:

The points on the surface are:

```
0: P_0 = (1,0,0,0)
                                                                                        90: P_{349} = (4, 2, 4, 1)
                                            45: P_{161} = (0, 3, 1, 1)
1: P_1 = (0, 1, 0, 0)
                                            46: P_{163} = (2, 3, 1, 1)
                                                                                        91: P_{353} = (0,3,4,1)
2: P_2 = (0,0,1,0)
                                            47: P_{169} = (0, 4, 1, 1)
                                                                                        92: P_{361} = (0, 4, 4, 1)
3: P_3 = (0,0,0,1)
                                            48: P_{174} = (5, 4, 1, 1)
                                                                                        93: P_{367} = (6, 4, 4, 1)
4: P_5 = (1, 1, 0, 0)
                                            49: P_{177} = (0, 5, 1, 1)
                                                                                        94: P_{369} = (0, 5, 4, 1)
5: P_6 = (2, 1, 0, 0)
                                            50: P_{181} = (4, 5, 1, 1)
                                                                                        95: P_{371} = (2, 5, 4, 1)
6: P_7 = (3, 1, 0, 0)
                                            51: P_{185} = (0, 6, 1, 1)
                                                                                        96: P_{377} = (0, 6, 4, 1)
7: P_8 = (4, 1, 0, 0)
                                            52: P_{192} = (7, 6, 1, 1)
                                                                                        97: P_{380} = (3, 6, 4, 1)
                                            53: P_{193} = (0, 7, 1, 1)
8: P_9 = (5, 1, 0, 0)
                                                                                        98: P_{385} = (0,7,4,1)
9: P_{10} = (6, 1, 0, 0)
                                            54: P_{199} = (6,7,1,1)
                                                                                        99: P_{392} = (7,7,4,1)
                                            55: P_{201} = (0, 0, 2, 1)
                                                                                        100: P_{393} = (0, 0, 5, 1)
10: P_{11} = (7, 1, 0, 0)
11: P_{12} = (1, 0, 1, 0)
                                            56: P_{202} = (1, 0, 2, 1)
                                                                                        101: P_{394} = (1,0,5,1)
12: P_{13} = (2, 0, 1, 0)
                                                                                        102: P_{401} = (0, 1, 5, 1)
                                            57: P_{209} = (0, 1, 2, 1)
                                            58: P_{212} = (3, 1, 2, 1)
13: P_{14} = (3, 0, 1, 0)
                                                                                        103: P_{405} = (4, 1, 5, 1)
                                            59: P_{217} = (0, 2, 2, 1)
                                                                                        104: P_{409} = (0, 2, 5, 1)
14: P_{15} = (4,0,1,0)
15: P_{16} = (5, 0, 1, 0)
                                            60: P_{222} = (5, 2, 2, 1)
                                                                                        105: P_{415} = (6, 2, 5, 1)
16: P_{17} = (6, 0, 1, 0)
                                            61: P_{225} = (0, 3, 2, 1)
                                                                                        106: P_{417} = (0, 3, 5, 1)
17: P_{18} = (7, 0, 1, 0)
                                            62: P_{232} = (7, 3, 2, 1)
                                                                                        107: P_{420} = (3, 3, 5, 1)
18: P_{19} = (0, 1, 1, 0)
                                            63: P_{233} = (0, 4, 2, 1)
                                                                                        108: P_{425} = (0, 4, 5, 1)
19: P_{27} = (0, 2, 1, 0)
                                            64: P_{237} = (4, 4, 2, 1)
                                                                                        109: P_{427} = (2, 4, 5, 1)
20: P_{35} = (0, 3, 1, 0)
                                            65: P_{241} = (0, 5, 2, 1)
                                                                                        110: P_{433} = (0, 5, 5, 1)
21: P_{43} = (0, 4, 1, 0)
                                                                                        111: P_{440} = (7, 5, 5, 1)
                                            66: P_{247} = (6, 5, 2, 1)
                                                                                        112: P_{441} = (0, 6, 5, 1)
22: P_{51} = (0, 5, 1, 0)
                                            67: P_{249} = (0, 6, 2, 1)
23: P_{59} = (0, 6, 1, 0)
                                            68: P_{257} = (0,7,2,1)
                                                                                        113: P_{446} = (5, 6, 5, 1)
24: P_{67} = (0, 7, 1, 0)
                                                                                        114: P_{449} = (0, 7, 5, 1)
                                            69: P_{259} = (2,7,2,1)
                                                                                        115: P_{457} = (0, 0, 6, 1)
25: P_{75} = (1,0,0,1)
                                            70: P_{265} = (0, 0, 3, 1)
26: P_{82} = (0, 1, 0, 1)
                                            71: P_{266} = (1, 0, 3, 1)
                                                                                        116: P_{458} = (1, 0, 6, 1)
                                                                                        117: P_{465} = (0, 1, 6, 1)
27: P_{83} = (1, 1, 0, 1)
                                            72: P_{273} = (0, 1, 3, 1)
28: P_{90} = (0, 2, 0, 1)
                                            73: P_{275} = (2, 1, 3, 1)
                                                                                        118: P_{472} = (7, 1, 6, 1)
29: P_{91} = (1, 2, 0, 1)
                                                                                        119: P_{473} = (0, 2, 6, 1)
                                            74: P_{281} = (0, 2, 3, 1)
30: P_{98} = (0, 3, 0, 1)
                                            75: P_{288} = (7, 2, 3, 1)
                                                                                        120: P_{481} = (0, 3, 6, 1)
31: P_{99} = (1,3,0,1)
                                                                                        121: P_{487} = (6, 3, 6, 1)
                                            76: P_{289} = (0, 3, 3, 1)
32: P_{106} = (0, 4, 0, 1)
                                                                                        122: P_{489} = (0, 4, 6, 1)
                                            77: P_{293} = (4, 3, 3, 1)
33: P_{107} = (1, 4, 0, 1)
                                            78: P_{297} = (0, 4, 3, 1)
                                                                                        123: P_{492} = (3, 4, 6, 1)
34: P_{114} = (0, 5, 0, 1)
                                            79: P_{305} = (0, 5, 3, 1)
                                                                                        124: P_{497} = (0, 5, 6, 1)
35: P_{115} = (1, 5, 0, 1)
                                            80: P_{308} = (3, 5, 3, 1)
                                                                                        125: P_{502} = (5, 5, 6, 1)
36: P_{122} = (0, 6, 0, 1)
                                            81: P_{313} = (0,6,3,1)
                                                                                        126: P_{505} = (0, 6, 6, 1)
37: P_{123} = (1, 6, 0, 1)
                                            82: P_{319} = (6, 6, 3, 1)
                                                                                        127: P_{507} = (2, 6, 6, 1)
                                            83: P_{321} = (0,7,3,1)
38: P_{130} = (0,7,0,1)
                                                                                        128: P_{513} = (0,7,6,1)
39: P_{131} = (1,7,0,1)
                                            84: P_{326} = (5,7,3,1)
                                                                                        129: P_{517} = (4,7,6,1)
40: P_{138} = (0,0,1,1)
                                            85: P_{329} = (0,0,4,1)
                                                                                        130: P_{521} = (0, 0, 7, 1)
41: P_{139} = (1,0,1,1)
                                            86: P_{330} = (1, 0, 4, 1)
                                                                                        131: P_{522} = (1, 0, 7, 1)
                                                                                        132: P_{529} = (0, 1, 7, 1)
42: P_{146} = (0, 1, 1, 1)
                                            87: P_{337} = (0, 1, 4, 1)
43: P_{153} = (0, 2, 1, 1)
                                            88: P_{342} = (5, 1, 4, 1)
                                                                                        133: P_{535} = (6, 1, 7, 1)
44: P_{156} = (3, 2, 1, 1)
                                            89: P_{345} = (0, 2, 4, 1)
                                                                                        134: P_{537} = (0, 2, 7, 1)
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$135: P_{539} = (2, 2, 7, 1)$	$139: P_{560} = (7, 4, 7, 1)$	143: $P_{577} = (0,7,7,1)$
136: $P_{545} = (0, 3, 7, 1)$	$140: P_{561} = (0, 5, 7, 1)$	$144: P_{580} = (3,7,7,1)$
$137: P_{550} = (5, 3, 7, 1)$	$141: P_{569} = (0, 6, 7, 1)$	
$138: P_{553} = (0, 4, 7, 1)$	$142: P_{573} = (4, 6, 7, 1)$	