Rank-16 over GF(4)

January 15, 2021

The equation

The equation of the surface is:

$$X_0 X_1 X_2 = 0$$

General information

Number of lines	60
Number of points	49
Number of singular points	13
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	5^{60}
Type of lines on points	$12, 9^{12}, 5^{36}$

Singular Points

The surface has 13 singular points:

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\begin{array}{lll} 0: \ P_0 = \mathbf{P}(1,0,0,0) = \mathbf{P}(1,0,0,0) & 7: \ P_{26} = \mathbf{P}(0,1,0,1) = \mathbf{P}(0,1,0,1) \\ 1: \ P_1 = \mathbf{P}(0,1,0,0) = \mathbf{P}(0,1,0,0) & 8: \ P_{30} = \mathbf{P}(0,\omega,0,1) = \mathbf{P}(0,2,0,1) \\ 2: \ P_2 = \mathbf{P}(0,0,1,0) = \mathbf{P}(0,0,1,0) & 9: \ P_{34} = \mathbf{P}(0,\omega^2,0,1) = \mathbf{P}(0,3,0,1) \\ 3: \ P_{39} = \mathbf{P}(0,0,0,1) = \mathbf{P}(0,0,0,1) & 10: \ P_{38} = \mathbf{P}(0,0,1,1) = \mathbf{P}(0,0,1,1) \\ 4: \ P_{23} = \mathbf{P}(1,0,0,1) = \mathbf{P}(1,0,0,1) & 11: \ P_{53} = \mathbf{P}(0,0,\omega,1) = \mathbf{P}(0,0,2,1) \\ 5: \ P_{24} = \mathbf{P}(\omega,0,0,1) = \mathbf{P}(2,0,0,1) & 12: \ P_{69} = \mathbf{P}(0,0,\omega^2,1) = \mathbf{P}(0,0,3,1) \end{array}
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The 60 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}_{16} &= \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{16} = \mathbf{PI}(0,0,1,0,0,0)_2 \\ \ell_2 &= \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{336} &= \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{336} = \mathbf{PI}(0,0,0,0,0,1)_{101} \\ \ell_3 &= \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{20} &= \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{20} = \mathbf{PI}(0,0,0,0,1,0)_{25} \\ \ell_4 &= \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 1 \end{bmatrix}_4 &= \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 1 \end{bmatrix}_4 = \mathbf{PI}(1,0,0,0,1,0)_{26} \\ \ell_5 &= \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & \omega^2 \end{bmatrix}_{12} &= \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 3 \end{bmatrix}_{12} = \mathbf{PI}(2,0,0,0,1,0)_{27} \\ \ell_6 &= \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & \omega^2 \end{bmatrix}_{12} &= \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 2 \end{bmatrix}_8 = \mathbf{PI}(3,0,0,0,1,0)_{28} \\ \ell_7 &= \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{17} &= \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{17} = \mathbf{PI}(0,0,1,0,1,0)_{32} \\ \ell_8 &= \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & \omega^2 \end{bmatrix}_{19} &= \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 3 \end{bmatrix}_{19} = \mathbf{PI}(0,0,2,0,1,0)_{39} \\ \ell_9 &= \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & \omega \end{bmatrix}_{18} &= \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 2 \end{bmatrix}_{18} = \mathbf{PI}(0,0,3,0,1,0)_{46} \\ \ell_{10} &= \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{340} &= \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{340} = \mathbf{PI}(0,0,0,1,0,0)_{10} \\ \ell_{11} &= \begin{bmatrix} 1 & 0 & 0 & \omega^2 \\ 0 & 1 & 0 & 0 \end{bmatrix}_{252} &= \begin{bmatrix} 1 & 0 & 0 & 3 \\ 0 & 1 & 0 & 0 \end{bmatrix}_{252} = \mathbf{PI}(2,0,0,1,0,0)_{11} \\ \ell_{13} &= \begin{bmatrix} 1 & 0 & 0 & \omega^2 \\ 0 & 1 & 0 & 0 \end{bmatrix}_{337} &= \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{337} = \mathbf{PI}(0,0,0,1,0,1)_{129} \\ \ell_{15} &= \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & \omega^2 \end{bmatrix}_{338} &= \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 3 \end{bmatrix}_{339} = \mathbf{PI}(0,0,0,2,0,1)_{136} \\ \ell_{17} &= \begin{bmatrix} 0 & 0 & 1 & 0 \\ 0 & 0 & 1 & \omega^2 \end{bmatrix}_{338} &= \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 3 \end{bmatrix}_{339} = \mathbf{PI}(0,0,0,2,0,1)_{136} \\ \ell_{17} &= \begin{bmatrix} 0 & 0 & 1 & 0 \\ 0 & 0 & 1 & \omega \end{bmatrix}_{336} &= \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 3 \end{bmatrix}_{356} = \mathbf{PI}(0,1,0,0,0,0) \\ \ell_{19} &= \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{100} &= \begin{bmatrix} 1 & 0 & 0 & 1 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{100} = \mathbf{PI}(0,1,1,0,0,0) \end{aligned}$$

$$\begin{split} \ell_{20} &= \begin{bmatrix} 1 & 0 & 0 & \omega \\ 0 & 0 & 1 & 0 \end{bmatrix}_{184} = \begin{bmatrix} 1 & 0 & 0 & 2 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{184} = \mathbf{PI}(0,2,1,0,0,0)_{7} \\ \ell_{21} &= \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{341} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{341} = \mathbf{PI}(0,1,0,0,0,1)_{105} \\ \ell_{22} &= \begin{bmatrix} 0 & 1 & 0 & \omega^{2} \\ 0 & 0 & 1 & 0 \end{bmatrix}_{351} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{351} = \mathbf{PI}(0,3,0,0,0,1)_{107} \\ \ell_{23} &= \begin{bmatrix} 0 & 1 & 0 & \omega \\ 0 & 0 & 1 & 0 \end{bmatrix}_{346} = \begin{bmatrix} 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{346} = \mathbf{PI}(0,2,0,0,0,1)_{106} \\ \ell_{24} &= \begin{bmatrix} 1 & 1 & 0 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{41} = \begin{bmatrix} 1 & 1 & 0 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{41} = \mathbf{PI}(0,0,0,1,1,0)_{53} \\ \ell_{25} &= \begin{bmatrix} 1 & 0 & 0 & 1 \\ 0 & 1 & 0 & 1 \end{bmatrix}_{88} = \begin{bmatrix} 1 & 0 & 0 & 1 \\ 0 & 1 & 0 & 1 \end{bmatrix}_{88} = \mathbf{PI}(1,0,0,1,1,0)_{54} \\ \ell_{26} &= \begin{bmatrix} 1 & 0 & 0 & \omega^{2} \\ 0 & 1 & 0 & \omega^{2} \end{bmatrix}_{264} = \begin{bmatrix} 1 & 0 & 0 & 3 \\ 0 & 1 & 0 & 3 \end{bmatrix}_{264} = \mathbf{PI}(2,0,0,1,1,0)_{56} \\ \ell_{27} &= \begin{bmatrix} 1 & 0 & 0 & \omega \\ 0 & 0 & 0 & 1 \end{bmatrix}_{83} = \begin{bmatrix} 1 & 0 & 0 & 2 \\ 0 & 1 & 0 & 2 \end{bmatrix}_{176} = \mathbf{PI}(3,0,0,1,1,0)_{56} \\ \ell_{28} &= \begin{bmatrix} 1 & \omega^{2} & 0 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{83} = \begin{bmatrix} 1 & 3 & 0 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{83} = \mathbf{PI}(1,0,0,3,1,0)_{67} \\ \ell_{29} &= \begin{bmatrix} 1 & 0 & 0 & \omega^{2} \\ 0 & 1 & 0 & \omega^{2} \end{bmatrix}_{256} = \begin{bmatrix} 1 & 0 & 0 & 3 \\ 0 & 1 & 0 & 1 \end{bmatrix}_{29} = \mathbf{PI}(3,0,0,3,1,0)_{69} \\ \ell_{31} &= \begin{bmatrix} 1 & 0 & 0 & \omega^{2} \\ 0 & 1 & 0 & \omega^{2} \end{bmatrix}_{180} = \begin{bmatrix} 1 & 0 & 0 & 3 \\ 0 & 1 & 0 & 1 \end{bmatrix}_{256} = \mathbf{PI}(1,0,0,3,1,0)_{69} \\ \ell_{32} &= \begin{bmatrix} 1 & \omega & 0 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{62} = \begin{bmatrix} 1 & 0 & 0 & 1 \\ 0 & 1 & 0 & \omega^{2} \end{bmatrix}_{180} = \mathbf{PI}(2,0,0,2,1,0)_{60} \\ \ell_{34} &= \begin{bmatrix} 1 & 0 & 0 & \omega^{2} \\ 0 & 1 & 0 & \omega^{2} \end{bmatrix}_{266} = \begin{bmatrix} 1 & 0 & 0 & 1 \\ 0 & 1 & 0 & 1 \end{bmatrix}_{172} = \mathbf{PI}(0,0,0,2,1,0)_{61} \\ \ell_{35} &= \begin{bmatrix} 1 & 0 & 0 & \omega^{2} \\ 0 & 1 & 0 & 1 \end{bmatrix}_{172} = \begin{bmatrix} 1 & 0 & 0 & 1 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{172} = \mathbf{PI}(0,1,0,0,1,0)_{29} \\ \ell_{37} &= \begin{bmatrix} 1 & 0 & 0 & \omega^{2} \\ 0 & 1 & 0 & 1 \end{bmatrix}_{101} = \begin{bmatrix} 1 & 0 & 0 & 1 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{101} = \mathbf{PI}(0,1,0,0,1,0)_{30} \\ \ell_{38} &= \begin{bmatrix} 1 & 0 & 0 & \omega^{2} \\ 0 & 1 & 0 & 1 \end{bmatrix}_{101} = \begin{bmatrix} 1 & 0 & 0 & 1 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{101} = \mathbf{PI}(0,1,2,0,1,0)_{43} \\ \ell_{39} &= \begin{bmatrix} 1 & 0 & 0 & \omega^{2} \\ 0 & 0 & 1 & \omega \end{bmatrix}_{186} = \begin{bmatrix} 1 & 0 & 0 & 2 \\$$

$$\begin{split} \ell_{41} &= \begin{bmatrix} 1 & 0 & 0 & 1 \\ 0 & 0 & 1 & \omega \end{bmatrix}_{102} = \begin{bmatrix} 1 & 0 & 0 & 1 \\ 0 & 0 & 1 & 2 \end{bmatrix}_{102} = \mathbf{PI}(0,3,3,0,1,0)_{52} \\ \ell_{42} &= \begin{bmatrix} 1 & 0 & 0 & \omega^2 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{269} = \begin{bmatrix} 1 & 0 & 0 & 3 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{269} = \mathbf{PI}(0,3,1,0,1,0)_{38} \\ \ell_{43} &= \begin{bmatrix} 1 & 0 & 0 & \omega \\ 0 & 0 & 1 & \omega^2 \end{bmatrix}_{187} = \begin{bmatrix} 1 & 0 & 0 & 2 \\ 0 & 0 & 1 & 3 \end{bmatrix}_{187} = \mathbf{PI}(0,3,2,0,1,0)_{45} \\ \ell_{44} &= \begin{bmatrix} 1 & 0 & \omega & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{188} = \begin{bmatrix} 1 & 0 & 2 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{188} = \mathbf{PI}(0,2,0,0,1,0)_{30} \\ \ell_{45} &= \begin{bmatrix} 1 & 0 & 0 & \omega^2 \\ 0 & 0 & 1 & \omega^2 \end{bmatrix}_{103} = \begin{bmatrix} 1 & 0 & 0 & 1 \\ 0 & 0 & 1 & 3 \end{bmatrix}_{103} = \mathbf{PI}(0,2,2,0,1,0)_{44} \\ \ell_{46} &= \begin{bmatrix} 1 & 0 & 0 & \omega^2 \\ 0 & 0 & 1 & \omega \end{bmatrix}_{270} = \begin{bmatrix} 1 & 0 & 0 & 3 \\ 0 & 0 & 1 & 2 \end{bmatrix}_{270} = \mathbf{PI}(0,2,3,0,1,0)_{51} \\ \ell_{47} &= \begin{bmatrix} 1 & 0 & 0 & \omega \\ 0 & 0 & 1 & 1 \end{bmatrix}_{185} = \begin{bmatrix} 1 & 0 & 0 & 2 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{185} = \mathbf{PI}(0,2,1,0,1,0)_{37} \\ \ell_{48} &= \begin{bmatrix} 0 & 1 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{345} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{345} = \mathbf{PI}(0,1,0,1,0,0)_{13} \\ \ell_{49} &= \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{342} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{342} = \mathbf{PI}(0,1,0,1,0,1)_{133} \\ \ell_{50} &= \begin{bmatrix} 0 & 1 & 0 & \omega \\ 0 & 0 & 1 & \omega \end{bmatrix}_{345} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{342} = \mathbf{PI}(0,3,0,3,0,1)_{149} \\ \ell_{51} &= \begin{bmatrix} 0 & 1 & 0 & \omega \\ 0 & 0 & 0 & 1 \end{bmatrix}_{355} = \begin{bmatrix} 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & 2 \end{bmatrix}_{348} = \mathbf{PI}(0,2,0,2,0,1)_{141} \\ \ell_{52} &= \begin{bmatrix} 0 & 1 & \omega^2 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{355} = \begin{bmatrix} 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 2 \end{bmatrix}_{343} = \mathbf{PI}(0,1,0,2,0,1)_{140} \\ \ell_{54} &= \begin{bmatrix} 0 & 1 & 0 & \omega^2 \\ 0 & 0 & 1 & \omega^2 \end{bmatrix}_{349} = \begin{bmatrix} 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{352} = \mathbf{PI}(0,3,0,1,0,1)_{135} \\ \ell_{56} &= \begin{bmatrix} 0 & 1 & 0 & \omega^2 \\ 0 & 0 & 1 & \omega^2 \end{bmatrix}_{349} = \begin{bmatrix} 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & 3 \end{bmatrix}_{349} = \mathbf{PI}(0,2,0,3,0,1)_{148} \\ \ell_{57} &= \begin{bmatrix} 0 & 1 & 0 & \omega^2 \\ 0 & 0 & 1 & \omega^2 \end{bmatrix}_{344} = \begin{bmatrix} 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 3 \end{bmatrix}_{349} = \mathbf{PI}(0,2,0,1,0,0)_{144} \\ \ell_{58} &= \begin{bmatrix} 0 & 1 & 0 & \omega^2 \\ 0 & 0 & 1 & \omega^2 \end{bmatrix}_{344} = \begin{bmatrix} 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 3 \end{bmatrix}_{344} = \mathbf{PI}(0,2,0,1,0,0)_{144} \\ \ell_{58} &= \begin{bmatrix} 0 & 1 & 0 & \omega^2 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{347} = \begin{bmatrix} 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & 1$$

Rank of lines: (0, 16, 336, 20, 4, 12, 8, 17, 19, 18, 340, 84, 252, 168, 337, 339, 338, 356, 100, 268, 184, 341, 351, 346, 41, 88, 264, 176, 83, 92, 256, 180, 62, 96, 260, 172, 104, 101, 271, 186, 272, 102, 269, 187, 188, 103, 270, 185, 345, 342, ...344, 353, 347)

Rank of points on Klein quadric: (0, 2, 101, 25, 26, 27, 28, 32, 39, 46, 9, 10, 11, 12, 129, 143, 136, 1, 6, 8, 7, 105, 107, 106, 53, 54, 55, 56, 67, 70, 68, 69, 60, 62, 63, 61, 29, 36, 43, 50, 31, 52, 38, 45, 30, 44, 51, 37, 13, 133, ...147, 142, 134)

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

01094567001011101914151617	10 10 00 01 00 02 6	04 05 06 07 00 00 20 21 20 22 24 25 26 27 20 20 40 41 49 42 44 45 4	C 47
		$24\ 25\ 26\ 27\ 28\ 29\ 30\ 31\ 32\ 33\ 34\ 35\ 36\ 37\ 38\ 39\ 40\ 41\ 42\ 43\ 44\ 45\ 4$	
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		1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 1 0 0 0 1 0 0	
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$55 \mid 0 \ 0 \ 1 \ 0 \ 0 \ 1 \ 0 \ 1 \ 1 \ 1 \$	$0 \ 0 \ 0 \ 1 \ 1 \ 1$	$0 \ 0 \ 0 \ 1 \ 0 \ 1 \ 0 \ 0 \ 0 \ 1 \ 0 \ 0$	0 0
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57 0 0 1 0 1 0 0 0 1 1 1 1 1	0 0 0 1 1 1	0 1 0 0 0 0 1 0 0 0 1 0 0 1 0 0 0 1 0 1	0 0

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_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{24}	ℓ_{25}	ℓ_{26}	ℓ_{27}	ℓ_{28}	ℓ_{29}	Γ
in point	P_0	P_1	P_0	P_1	P_5	P_5	P_5	P_5	P_6	P_6	Ī												

Line 1 intersects

Т:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	_
Line	ℓ_0	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ_{22}	ℓ_{23}	ℓ_{36}	ℓ_{37}	ℓ_{38}	ℓ_{39}	ℓ_{40}	ℓ_{41}	
in point	P_0	P_2	P_0	P_2	P_8	P_8	P_8	P_8	P_9	P_9													

Line 2 intersects

Т:	0	0	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_{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}	ℓ_{23}	ℓ_{48}	ℓ_{49}	ℓ_{50}	ℓ_{51}	ℓ_{52}
in point	P_1	P_2	P_1	P_2	P_{11}	P_{11}	P_{11}	P_{11}	P_{15}												

Line 3 intersects

Line	ℓ_0	ℓ_1	ℓ_{Λ}	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_0	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{24}	ℓ_{25}	ℓ_{26}	ℓ_{27}	ℓ_{28}
in point	P_0	P_0	P_0	P_0	P_0	P_0	P_0	P_0	_	P_{23}	P_{24}	P_{25}	P_3	P_{23}	P_{24}	P_{25}	P_3	P_{23}	P_{24}	P_{25}	P_3

Line 4 intersects

	Line	ℓ_0	ℓ_1	ℓ_3	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{21}	ℓ_{24}	ℓ_{25}	ℓ_{26}	ℓ_{27}	ℓ_{28}	ℓ_{29}	ℓ_{30}	ℓ_{31}
in	point	P_0	P_{26}	P_{27}	P_{28}	P_{29}	P_{26}	P_{27}	P_{26}	P_{29}	P_{28}	P_{28}	P_{29}	P_{26}	P_{27}							

${\bf Line~5~intersects}$

_																						
	$_{ m Line}$	ℓ_0	ℓ_1	ℓ_3	ℓ_4	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{22}	ℓ_{24}	ℓ_{25}	ℓ_{26}	ℓ_{27}	ℓ_{28}	ℓ_{29}	ℓ_{30}	ℓ_{31}
	in point	P_0	P_{30}	P_{31}	P_{32}	P_{33}	P_{30}	P_{32}	P_{33}	P_{30}	P_{31}	P_{33}	P_{32}	P_{31}	P_{30}							

Line 6 intersects

Line	ℓ_0	ℓ_1	ℓ_3	ℓ_4	ℓ_5	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{23}	ℓ_{24}	ℓ_{25}	ℓ_{26}	ℓ_{27}	ℓ_{28}	ℓ_{29}	ℓ_{30}	ℓ_{31}
in point	P_0	P_{34}	P_{35}	P_{36}	P_{37}	P_{34}	P_{37}	P_{36}	P_{35}	P_{34}	P_{35}	P_{34}	P_{37}	P_{36}							

Line 7 intersects

Line	ℓ_0	ℓ_1	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_8	ℓ_9	ℓ_{14}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{36}	ℓ_{37}	ℓ_{38}	ℓ_{39}	ℓ_{40}	ℓ_{41}	ℓ_{42}	ℓ_{43}
in point	P_0	P_{38}	P_{38}	P_{39}	P_{40}	P_{41}	P_{39}	P_{38}	P_{41}	P_{40}	P_{40}	P_{41}	P_{38}	P_{39}							

Line 8 intersects

Line	ℓ_0	ℓ_1	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_9	ℓ_{15}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{36}	ℓ_{37}	ℓ_{38}	ℓ_{39}	ℓ_{40}	ℓ_{41}	ℓ_{42}	ℓ_{43}
in point	P_0	P_{53}	P_{53}	P_{54}	P_{55}	P_{56}	P_{55}	P_{56}	P_{53}	P_{54}	P_{56}	P_{55}	P_{54}	P_{53}							

Line 9 intersects

Line	ℓ_0	ℓ_1	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{36}	ℓ_{37}	ℓ_{38}	ℓ_{39}	ℓ_{40}	ℓ_{41}	ℓ_{42}	ℓ_{43}
in point	P_0	P_{69}	P_{69}	P_{70}	P_{71}	P_{72}	P_{72}	P_{71}	P_{70}	P_{69}	P_{70}	P_{69}	P_{72}	P_{71}							

${\bf Line~10~intersects}$

Line	ℓ_0	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{21}	ℓ_{22}	ℓ_{23}	ℓ_{24}	ℓ_{25}	ℓ_{26}	ℓ_{27}	ℓ_{28}
in point	P_1	P_1	P_3	P_{26}	P_{30}	P_{34}	P_1	P_1	P_1	P_1	P_1	P_1	P_3	P_{26}	P_{30}	P_{34}	P_3	P_{26}	P_{30}	P_{34}	P_3

Line 11 intersects

Line	ℓ_0	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_{10}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{18}	ℓ_{24}	ℓ_{25}	ℓ_{26}	ℓ_{27}	ℓ_{28}	ℓ_{29}	ℓ_{30}	ℓ_3
in point	P_1	P_1	P_{23}	P_{27}	P_{31}	P_{35}	P_1	P_1	P_1	P_1	P_1	P_1	P_{23}	P_{27}	P_{23}	P_{35}	P_{31}	P_{35}	P_{23}	P_{31}	P_{i}

$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$																					
								ℓ_{11}			ℓ_{15}			ℓ_{24}					ℓ_{29}		L
in point	P_1	P_1	P_{24}	P_{28}	P_{32}	P_{36}	P_1	P_1	P_1	P_1	P_1	P_1	P_{24}	P_{32}	P_{36}	P_{24}	P_{28}	P_{28}	P_{32}	P_{24}	L
Line 13 in	terse	cts																			
in point	P_1	P_1	P_{25}	P_{29}	P_{33}	P_{37}	P_1	P_1	P_1	P_1	P_1	P_1	P_{25}	P_{37}	P_{33}	P_{29}	P_{25}	P_{33}	P_{29}	P_{37}	
Line 14 in	terse	cts																			
Line														ℓ_{37}	ℓ_{42}	ℓ_{47}	ℓ_{48}	ℓ_{49}			
in point	P_1	P_1	P_{38}	P_1	P_1	P_1	P_1	P_1	P_1	P_{38}	P_{42}	P_{45}	P_{49}	P_{38}	P_{38}	P_{38}	P_{42}	P_{38}	P_{49}	P_{45}	
Line 15 in	terse	cts																			
Line	ℓ_0	ℓ_2	ℓ_8	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{16}	ℓ_{17}	ℓ_{21}	ℓ_{22}	ℓ_{23}	ℓ_{38}	ℓ_{43}	ℓ_{45}	ℓ_{48}	ℓ_{49}	ℓ_{50}	ℓ_{51}	Т
																	P_{61}				T
Line 16 in	terse	${ m cts}$																			
Line	lo	l ₂	lo	f ₁₀	f ₁₁	l ₁₂	f ₁₂	f _{1.4}	115	f 17	f ₂₁	laa	laa	120	f 4.1	l _{AG}	110	110	150	/ _{E1}	Т
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Line 17 in	terse	cts																'			
							0 1	0	0	1 0	0	0	0	0	0	0	0	0 0			
Line	0.	100	1 00 1	0-	V .	V ₀	V10			V10					V 00	V 00	101	$v_{\infty} \mid v$	00 10	$\sim 1 V_{\odot}$	-
								$\frac{\ell_{14}}{P_{38}}$													
in point	P_2	P_2						$\frac{\ell_{14}}{P_{38}}$													
in point Line 18 in	P_2	P_2	P_3	P ₃₈	P_{53}	P ₆₉	P_3	P_{38}	P_{53}	P ₆₉	P_2	P_2	P_2	P_2	P_2	P_2	P ₃	P_3 I	P_3 P	$P_3 \mid P_3$	
in point Line 18 in	P_2 terse ℓ_1	P_2 ets ℓ_2	ℓ_3	P_{38} ℓ_7	P_{53} ℓ_8	P_{69} ℓ_{9}	P_3 ℓ_{11}	P_{38} ℓ_{17}	P_{53}	ℓ_{20}	ℓ_{21}	ℓ_{22}	ℓ_{23}	P_2 ℓ_{25}	P_2 ℓ_{29}	P_2 ℓ_{33}	P_3 ℓ_{36}	P_3 I ℓ_{37}	ℓ_{38}	P_3 P_3	
in point Line 18 in Line in point	P_2 terse ℓ_1 P_2	P_2 ets ℓ_2 P_2	P_3	P ₃₈	P_{53}	P ₆₉	P_3	P_{38} ℓ_{17}	P_{53}	P ₆₉	P_2	P_2	P_2	P_2	P_2	P_2	P ₃	P_3 I	P_3 P	$P_3 \mid P_3$	
in point Line 18 im Line in point Line 19 im	P_2 terse ℓ_1 P_2 terse	P_2 cts ℓ_2 P_2 cts	P_3 ℓ_3 P_{23}	$\begin{array}{ c c c }\hline P_{38} \\ \hline & \ell_7 \\ \hline & P_{39} \\ \hline \end{array}$	P_{53} ℓ_8	P_{69} ℓ_{9}	$\begin{array}{ c c c }\hline P_3\\\hline &\ell_{11}\\\hline &P_{23}\\\hline \end{array}$	$\begin{array}{c c} P_{38} \\ \hline & \ell_{17} \\ \hline & P_2 \end{array}$	P_{53}	$\begin{array}{c c} P_{69} \\ \hline & \ell_{20} \\ \hline & P_2 \end{array}$	$\begin{array}{ c c c }\hline P_2\\\hline &\ell_{21}\\\hline &P_2\\\hline \end{array}$	$\begin{array}{ c c c }\hline P_2 \\\hline & \ell_{22} \\\hline & P_2 \\\hline \end{array}$	P_2 ℓ_{23} P_2	$\begin{array}{ c c }\hline P_2\\\hline \ell_{25}\\\hline P_{23}\\\hline\end{array}$	$\begin{array}{ c c }\hline P_2\\\hline \ell_{29}\\\hline P_{23}\\\hline\end{array}$	$\begin{array}{ c c c }\hline P_2\\\hline &\ell_{33}\\\hline &P_{23}\\\hline \end{array}$	P_3 ℓ_{36} P_{39}	P_3 I ℓ_{37}	P_3 P_3 P_{38} P_{70}	P_3 P_3	
in point Line 18 im Line in point Line 19 im Line	P_2 terse ℓ_1 P_2 terse ℓ_1	P_2 cts ℓ_2 P_2 cts ℓ_2	P_3 ℓ_3 P_{23}	$\begin{array}{ c c c }\hline P_{38} & \\ \hline & \ell_7 \\ \hline & P_{39} \\ \hline & \ell_7 \\ \hline \end{array}$	$ \begin{array}{ c c c } \hline P_{53} \\ \hline \ell_{8} \\ \hline P_{54} \\ \hline \end{array} $	$ \begin{array}{ c c c } \hline P_{69} \\ \hline P_{9} \\ \hline P_{70} \\ \hline \end{array} $	$\begin{array}{ c c c }\hline P_3\\\hline &\ell_{11}\\\hline &P_{23}\\\hline &\ell_{12}\\\hline \end{array}$	$\begin{array}{c c} P_{38} \\ \hline & \ell_{17} \\ \hline & P_2 \\ \hline & \ell_{17} \end{array}$	$\begin{array}{ c c c }\hline P_{53}\\\hline &\ell_{19}\\\hline &P_{2}\\\hline &\ell_{18}\\\hline \end{array}$	$\begin{array}{c c} P_{69} \\ \hline & \ell_{20} \\ \hline & P_{2} \\ \hline & \ell_{20} \\ \hline \end{array}$	$\begin{array}{ c c c }\hline P_2\\\hline &\ell_{21}\\\hline &\ell_{2}\\\hline &\ell_{21}\\\hline \end{array}$	$\begin{array}{ c c c }\hline P_2\\\hline &\ell_{22}\\\hline &P_2\\\hline &\ell_{22}\\\hline \end{array}$	$\begin{array}{ c c }\hline P_2\\\hline &\ell_{23}\\\hline &P_2\\\hline &\ell_{23}\\\hline \end{array}$	$\begin{array}{c c} P_2 \\ \hline \ell_{25} \\ P_{23} \\ \hline \ell_{26} \\ \end{array}$	$\begin{array}{ c c }\hline P_2\\\hline &\ell_{29}\\\hline &P_{23}\\\hline &\ell_{30}\\\hline \end{array}$	$\begin{array}{ c c }\hline P_2\\\hline &\ell_{33}\\\hline &P_{23}\\\hline &\ell_{34}\\\hline \end{array}$	P_3 ℓ_{36} ℓ_{39}	P_3 I ℓ_{37} I I ℓ_{37} I ℓ_{23}	$\begin{array}{ c c c }\hline P_3 & P \\ \hline & \ell_{38} \\ \hline & P_{70} \\ \hline & \ell_{38} \\ \hline \end{array}$	$egin{array}{ c c c c c c c c c c c c c c c c c c c$	
in point Line 18 im Line in point Line 19 im	P_2 terse ℓ_1 P_2 terse	P_2 cts ℓ_2 P_2 cts	P_3 ℓ_3 P_{23}	$\begin{array}{ c c c }\hline P_{38} \\ \hline & \ell_7 \\ \hline & P_{39} \\ \hline \end{array}$	$\begin{array}{ c c c }\hline P_{53} \\ \hline & \ell_8 \\ \hline & P_{54} \\ \hline \end{array}$	$\begin{array}{ c c c } P_{69} & \\ \hline & \ell_9 \\ \hline & P_{70} \\ \hline \end{array}$	$\begin{array}{ c c c }\hline P_3\\\hline &\ell_{11}\\\hline &P_{23}\\\hline \end{array}$	$\begin{array}{c c} P_{38} \\ \hline & \ell_{17} \\ \hline & P_2 \\ \hline & \ell_{17} \end{array}$	$\begin{array}{c c} P_{53} \\ \hline & \ell_{19} \\ \hline & P_2 \end{array}$	$\begin{array}{c c} P_{69} \\ \hline & \ell_{20} \\ \hline & P_2 \end{array}$	$\begin{array}{ c c c }\hline P_2\\\hline &\ell_{21}\\\hline &P_2\\\hline \end{array}$	$\begin{array}{ c c c }\hline P_2 \\\hline & \ell_{22} \\\hline & P_2 \\\hline \end{array}$	P_2 ℓ_{23} P_2	$\begin{array}{ c c }\hline P_2\\\hline \ell_{25}\\\hline P_{23}\\\hline\end{array}$	$\begin{array}{ c c c }\hline P_2\\\hline &\ell_{29}\\\hline &P_{23}\\\hline \end{array}$	$\begin{array}{ c c c }\hline P_2\\\hline &\ell_{33}\\\hline &P_{23}\\\hline \end{array}$	P_3 ℓ_{36} P_{39}	P_3 I ℓ_{37} I	P_3 P_3 P_{38} P_{70}	$P_{3} P_{3}$ $ \ell_{39}$ $ P_{54}$	
in point Line 18 im Line in point Line 19 im Line	$egin{array}{c} P_2 \ \hline \ell_1 \ P_2 \ \hline \ell_1 \ P_2 \ \hline \end{array}$	$egin{array}{c} P_2 \ \hline cts \ \hline \ell_2 \ P_2 \ \hline cts \ \hline \ell_2 \ \hline P_2 \ \hline \end{array}$	P_3 ℓ_3 P_{23}	$\begin{array}{ c c c }\hline P_{38} & \\ \hline & \ell_7 \\ \hline & P_{39} \\ \hline & \ell_7 \\ \hline \end{array}$	$ \begin{array}{ c c c } \hline P_{53} \\ \hline \ell_{8} \\ \hline P_{54} \\ \hline \end{array} $	$ \begin{array}{ c c c } \hline P_{69} \\ \hline P_{9} \\ \hline P_{70} \\ \hline \end{array} $	$\begin{array}{ c c c }\hline P_3\\\hline &\ell_{11}\\\hline &P_{23}\\\hline &\ell_{12}\\\hline \end{array}$	$\begin{array}{c c} P_{38} \\ \hline & \ell_{17} \\ \hline & P_2 \\ \hline & \ell_{17} \end{array}$	$\begin{array}{ c c c }\hline P_{53}\\\hline &\ell_{19}\\\hline &P_{2}\\\hline &\ell_{18}\\\hline \end{array}$	$\begin{array}{c c} P_{69} \\ \hline & \ell_{20} \\ \hline & P_{2} \\ \hline & \ell_{20} \\ \hline \end{array}$	$\begin{array}{ c c c }\hline P_2\\\hline &\ell_{21}\\\hline &\ell_{2}\\\hline &\ell_{21}\\\hline \end{array}$	$\begin{array}{ c c c }\hline P_2\\\hline &\ell_{22}\\\hline &P_2\\\hline &\ell_{22}\\\hline \end{array}$	$\begin{array}{ c c }\hline P_2\\\hline &\ell_{23}\\\hline &P_2\\\hline &\ell_{23}\\\hline \end{array}$	$\begin{array}{c c} P_2 \\ \hline \ell_{25} \\ P_{23} \\ \hline \ell_{26} \\ \end{array}$	$\begin{array}{ c c }\hline P_2\\\hline &\ell_{29}\\\hline &P_{23}\\\hline &\ell_{30}\\\hline \end{array}$	$\begin{array}{ c c }\hline P_2\\\hline &\ell_{33}\\\hline &P_{23}\\\hline &\ell_{34}\\\hline \end{array}$	P_3 ℓ_{36} ℓ_{39}	P_3 I ℓ_{37} I I ℓ_{37} I ℓ_{23}	$\begin{array}{ c c c }\hline P_3 & P \\ \hline & \ell_{38} \\ \hline & P_{70} \\ \hline & \ell_{38} \\ \hline \end{array}$	$egin{array}{ c c c c c c c c c c c c c c c c c c c$	
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in point Line 18 in Line in point Line 19 in Line in point Line 20 in	P_2 terses ℓ_1 P_2 terses ℓ_1 P_2	$egin{array}{c} P_2 \\ \ell_2 \\ P_2 \\ m cts \\ \ell_2 \\ P_2 \\ m cts \\ \end{array}$	$\begin{array}{ c c }\hline P_3\\\hline \ell_3\\\hline P_{23}\\\hline \ell_3\\\hline P_{24}\\\hline \end{array}$	$ \begin{array}{ c c c } \hline P_{38} \\ \hline \ell_7 \\ \hline P_{39} \\ \hline \ell_7 \\ \hline P_{40} \\ \hline \end{array} $	$ \begin{array}{ c c }\hline P_{53}\\\hline &\ell_8\\\hline &P_{54}\\\hline &\ell_8\\\hline &P_{55}\\\hline \end{array}$	$ \begin{array}{ c c } \hline P_{69} \\ \hline & \ell_9 \\ \hline & P_{70} \\ \hline & \ell_9 \\ \hline & P_{71} \\ \hline \end{array} $	$\begin{array}{ c c c }\hline P_3\\\hline &\ell_{11}\\\hline &P_{23}\\\hline &\ell_{12}\\\hline \end{array}$	$\begin{array}{c c} P_{38} \\ \hline & \ell_{17} \\ \hline & P_2 \\ \hline & \ell_{17} \\ \hline & \ell_{2} \\ \hline & \ell_{17} \\ \hline \end{array}$	$\begin{array}{ c c c }\hline P_{53}\\\hline &\ell_{19}\\\hline &P_{2}\\\hline &\ell_{18}\\\hline &\ell_{2}\\\hline &\ell_{18}\\\hline \end{array}$	$\begin{array}{ c c c }\hline P_{69}\\\hline &\ell_{20}\\\hline &P_{2}\\\hline &\ell_{20}\\\hline &P_{2}\\\hline &\ell_{19}\\\hline \end{array}$	$\begin{array}{ c c c }\hline P_2\\\hline &\ell_{21}\\\hline &P_2\\\hline &\ell_{21}\\\hline &P_2\\\hline \end{array}$	$\begin{array}{ c c c }\hline P_2\\\hline &\ell_{22}\\\hline &P_2\\\hline &\ell_{22}\\\hline &P_2\\\hline \end{array}$	$\begin{array}{c c} P_2 \\ \hline \\ \ell_{23} \\ P_2 \\ \hline \\ \ell_{23} \\ \hline \\ P_2 \\ \hline \end{array}$	$\begin{array}{c c} P_2 \\ \hline \ell_{25} \\ P_{23} \\ \hline \ell_{26} \\ P_{24} \\ \hline \end{array}$	$\begin{array}{ c c }\hline P_2\\\hline &\ell_{29}\\\hline &P_{23}\\\hline &\ell_{30}\\\hline &P_{24}\\\hline \end{array}$	$\begin{array}{ c c c }\hline P_2\\\hline &\ell_{33}\\\hline &P_{23}\\\hline &\ell_{34}\\\hline &P_{24}\\\hline \end{array}$	$\begin{array}{ c c c }\hline P_3 & \\ \hline & \ell_{36} \\ \hline & P_{39} \\ \hline & \ell_{36} \\ \hline & P_{55} \\ \hline \end{array}$	$\begin{array}{ c c c }\hline P_3 & I \\ \hline & \ell_{37} \\ \hline & P_{23} \\ \hline & \ell_{37} \\ \hline & P_{71} \\ \hline \end{array}$	$\begin{array}{ c c c }\hline P_3 & P \\ \hline & \ell_{38} \\ \hline & P_{70} \\ \hline & \ell_{38} \\ \hline & P_{24} \\ \hline \end{array}$	$egin{array}{ c c c c c c c c c c c c c c c c c c c$	
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in point Line 18 im Line in point Line 19 im Line in point Line 20 im Line 21 im Line 21 im Line 21 im	$egin{array}{c} P_2 \\ \ell_1 \\ \ell_2 \\ \ell_2 \\ \ell_2 \\ \ell_3 \\ \ell_4 \\ \ell_4 \\ \ell_4 \\ \ell_4 \\ \ell_4 \\ \ell_5 \\ $	$egin{array}{c} P_2 \ \hline \ell_2 \ \hline P_2 \ \hline \end{array}$	$\begin{array}{c c} P_3 \\ \hline \ell_3 \\ P_{23} \\ \hline P_{24} \\ \hline \end{array}$	$\begin{array}{ c c c }\hline P_{38} \\\hline & \ell_7 \\\hline & P_{39} \\\hline & \ell_7 \\\hline & P_{40} \\\hline & \ell_7 \\\hline & P_{41} \\\hline & \ell_{10} \\\hline \end{array}$	$\begin{array}{ c c c }\hline P_{53}\\\hline &\ell_8\\\hline &P_{54}\\\hline &\ell_8\\\hline &P_{55}\\\hline &\ell_8\\\hline &P_{56}\\\hline &\ell_{14}\\\hline \end{array}$	$\begin{array}{ c c }\hline P_{69}\\\hline P_{70}\\\hline P_{70}\\\hline P_{71}\\\hline P_{72}\\\hline P_{15}\\\hline \end{array}$	$egin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{c c} P_{38} \\ \hline & \ell_{17} \\ \hline & P_2 \\ \hline & \ell_{17} \\ \hline & P_2 \\ \hline & \ell_{17} \\ \hline & \ell_{2} \\ \hline \end{array}$	$\begin{array}{ c c c }\hline P_{53}\\\hline &\ell_{19}\\\hline &P_{2}\\\hline &\ell_{18}\\\hline &P_{2}\\\hline &\ell_{18}\\\hline &\ell_{18}\\\hline \end{array}$	$\begin{array}{ c c }\hline P_{69}\\\hline &\ell_{20}\\\hline &P_{2}\\\hline &P_{2}\\\hline &\ell_{19}\\\hline &P_{2}\\\hline &\ell_{19}\\\hline &\ell_{19}\\\hline \end{array}$	$\begin{array}{ c c c }\hline P_2\\\hline &\ell_{21}\\\hline &P_2\\\hline &\ell_{21}\\\hline &P_2\\\hline &\ell_{22}\\\hline &\ell_{20}\\\hline \end{array}$	$\begin{array}{ c c c }\hline P_2\\\hline &\ell_{22}\\\hline &P_2\\\hline &\ell_{22}\\\hline &P_2\\\hline &\ell_{22}\\\hline &\ell_{22}\\\hline &\ell_{22}\\\hline \end{array}$	$\begin{array}{c c} P_2 \\ \hline & \ell_{23} \\ \hline & \ell_{23} \\ \hline \end{array}$	$\begin{array}{c c} P_2 \\ \hline \ell_{25} \\ P_{23} \\ \hline \end{array}$ $\begin{array}{c c} \ell_{26} \\ P_{24} \\ \hline \end{array}$ $\begin{array}{c c} \ell_{27} \\ P_{25} \\ \hline \end{array}$	P_2 ℓ_{29} P_{23} ℓ_{30} P_{24} ℓ_{31} P_{25}	$egin{array}{ c c c c c }\hline P_2 & & & & & \\ \hline & \ell_{33} & P_{23} & & & \\ \hline & \ell_{34} & P_{24} & & & \\ \hline & \ell_{35} & P_{25} & & \\ \hline & \ell_{35} & & & \\ \hline & \ell_{35} & & & \\ \hline \end{array}$	$egin{array}{ c c c c c c c c c c c c c c c c c c c$	P_{3} I_{37} I_{23} $I_$	$egin{array}{ c c c c c c c c c c c c c c c c c c c$	$egin{array}{ c c c c c c c c c c c c c c c c c c c$	
in point Line 18 im Line in point Line 19 im Line in point Line 20 im Line in point Line 21 im Line in point Line 21 im Line in point Line 22 im	$egin{array}{c} P_2 \\ terse \\ \hline \ell_1 \\ P_2 \\ terse \\ terse \\ \hline \ell_1 \\ \hline \ell_2 \\ terse \\ \end{bmatrix}$	$egin{array}{c} P_2 \ \hline \ell_2 \ \hline P_2 \ \hline \end{array}$	$\begin{array}{c c} P_3 \\ \hline \ell_3 \\ P_{23} \\ \hline P_{24} \\ \hline \\ \ell_3 \\ P_{25} \\ \hline \\ \ell_4 \\ \hline \\ P_{26} \\ \hline \end{array}$	P_{38} ℓ_7 P_{39} ℓ_7 P_{40} ℓ_7 P_{41} ℓ_{10} P_{26}	$egin{array}{ c c c c }\hline P_{53} & & & & \\\hline & \ell_8 & P_{54} & & \\\hline & \ell_8 & P_{55} & & & \\\hline & \ell_8 & P_{56} & & & \\\hline & \ell_{14} & P_{42} & & & \\\hline \end{array}$	$egin{array}{ c c c c c }\hline P_{69} & & & & \\\hline & \ell_{9} & P_{70} & & \\\hline & P_{71} & & & \\\hline & \ell_{9} & P_{72} & & \\\hline & \ell_{15} & P_{57} & & \\\hline \end{array}$	$egin{array}{ c c c c c } P_3 & & & & & \\ & \ell_{11} & P_{23} & & & \\ & \ell_{12} & P_{24} & & & \\ & \ell_{13} & P_{25} & & & \\ & \ell_{16} & P_{73} & & & \\ \hline \end{array}$	$\begin{array}{c c} P_{38} \\ \hline & \ell_{17} \\ \hline & P_2 \\ \hline \end{array}$	$\begin{array}{c c} P_{53} \\ \hline & \ell_{19} \\ \hline & P_{2} \\ \hline & \ell_{18} \\ \hline & P_{2} \\ \hline & \ell_{18} \\ \hline & P_{2} \\ \hline & \ell_{18} \\ \hline & P_{2} \\ \hline \end{array}$	$\begin{array}{c c} P_{69} \\ \hline & \ell_{20} \\ \hline & P_{2} \\ \hline & P_{2} \\ \hline & \ell_{19} \\ \hline & P_{2} \\ \hline & \ell_{19} \\ \hline & P_{2} \\ \hline \end{array}$	$\begin{array}{c c} P_2 \\ \hline & \ell_{21} \\ P_2 \\ \hline & P_2 \\ \hline & \ell_{21} \\ \hline & P_2 \\ \hline & \ell_{20} \\ \hline & P_2 \\ \hline \end{array}$	$\begin{array}{c c} P_2 \\ \hline \\ \ell_{22} \\ P_2 \\ \hline \end{array}$	$\begin{array}{c c} P_2 \\ \hline \\ \ell_{23} \\ P_2 \\ \hline \\ \ell_{23} \\ P_2 \\ \hline \\ \ell_{23} \\ P_2 \\ \hline \\ \end{array}$	$\begin{array}{c c} P_2 \\ \hline \ell_{25} \\ P_{23} \\ \hline \ell_{26} \\ P_{24} \\ \hline \ell_{27} \\ P_{25} \\ \hline \ell_{25} \\ \hline P_{26} \\ \hline \end{array}$	$\begin{array}{ c c c }\hline P_2 \\\hline & \ell_{29} \\\hline & P_{23} \\\hline & \ell_{30} \\\hline & P_{24} \\\hline & \ell_{31} \\\hline & P_{25} \\\hline & \ell_{30} \\\hline & P_{26} \\\hline \end{array}$	$ \begin{array}{ c c c }\hline P_2 \\\hline & \ell_{33} \\\hline & P_{23} \\\hline & \ell_{34} \\\hline & P_{24} \\\hline & \ell_{35} \\\hline & P_{25} \\\hline & \ell_{35} \\\hline & P_{26} \\\hline \end{array} $	$\begin{array}{ c c c }\hline P_{3} & & \\\hline & \ell_{36} & \\\hline & P_{39} & \\\hline & \ell_{36} & \\\hline & P_{55} & \\\hline & \ell_{36} & \\\hline & P_{72} & \\\hline & \ell_{48} & \\\hline & P_{42} & \\\hline \end{array}$	$egin{array}{ c c c c c } \hline P_3 & I \\ \hline & \ell_{37} \\ \hline & P_{23} \\ \hline & P_{71} \\ \hline & P_{56} \\ \hline & \ell_{49} \\ \hline & P_{26} \\ \hline \end{array}$	$egin{array}{ c c c c c } \hline P_3 & F \\ \hline & \ell_{38} \\ \hline & P_{70} \\ \hline & \ell_{38} \\ \hline & P_{24} \\ \hline & \ell_{41} \\ \hline & \ell_{50} \\ \hline & P_{73} \\ \hline \end{array}$	$egin{array}{ c c c c c c c c c c c c c c c c c c c$	
in point Line 18 im Line in point Line 19 im Line in point Line 20 im Line in point Line in point Line in point Line in point	$egin{array}{c} P_2 \\ \ell_1 \\ \ell_2 \\ \ell_2 \\ \ell_2 \\ \ell_3 \\ \ell_4 \\ \ell_4 \\ \ell_4 \\ \ell_4 \\ \ell_4 \\ \ell_5 \\ $	$egin{array}{c} P_2 \ \hline \ell_2 \ \hline P_2 \ \hline \end{array}$	$\begin{array}{c c} P_3 \\ \hline \ell_3 \\ P_{23} \\ \hline P_{24} \\ \hline \end{array}$	$\begin{array}{ c c c }\hline P_{38} \\\hline & \ell_7 \\\hline & P_{39} \\\hline & \ell_7 \\\hline & P_{40} \\\hline & \ell_7 \\\hline & P_{41} \\\hline & \ell_{10} \\\hline \end{array}$	$\begin{array}{ c c c }\hline P_{53}\\\hline &\ell_8\\\hline &P_{54}\\\hline &\ell_8\\\hline &P_{55}\\\hline &\ell_8\\\hline &P_{56}\\\hline &\ell_{14}\\\hline \end{array}$	$\begin{array}{ c c }\hline P_{69}\\\hline P_{70}\\\hline P_{70}\\\hline P_{71}\\\hline P_{72}\\\hline P_{15}\\\hline \end{array}$	$egin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{c c} P_{38} \\ \hline & \ell_{17} \\ P_2 \\ \hline & \ell_{17} \\ \hline & P_2 \\ \hline & \ell_{17} \\ \hline & P_2 \\ \hline & \ell_{17} \\ \hline & \ell_{17} \\ \hline \end{array}$	$\begin{array}{ c c c }\hline P_{53}\\\hline &\ell_{19}\\\hline &P_{2}\\\hline &\ell_{18}\\\hline &P_{2}\\\hline &\ell_{18}\\\hline &P_{2}\\\hline &\ell_{18}\\\hline &\ell_{18}\\\hline \end{array}$	$\begin{array}{ c c c }\hline P_{69} \\ \hline & \ell_{20} \\ \hline & P_{2} \\ \hline & \ell_{20} \\ \hline & P_{2} \\ \hline & \ell_{19} \\ \hline & P_{2} \\ \hline & \ell_{19} \\ \hline & \ell_{19} \\ \hline \end{array}$	$\begin{array}{ c c c }\hline P_2\\\hline &\ell_{21}\\\hline &P_2\\\hline &\ell_{21}\\\hline &P_2\\\hline &\ell_{22}\\\hline &\ell_{20}\\\hline \end{array}$	$\begin{array}{ c c c }\hline P_2\\\hline &\ell_{22}\\\hline &P_2\\\hline &\ell_{22}\\\hline &P_2\\\hline &\ell_{22}\\\hline &\ell_{22}\\\hline &\ell_{22}\\\hline \end{array}$	$\begin{array}{c c} P_2 \\ \hline & \ell_{23} \\ \hline & \ell_{23} \\ \hline \end{array}$	$\begin{array}{c c} P_2 \\ \hline \ell_{25} \\ P_{23} \\ \hline \end{array}$ $\begin{array}{c c} \ell_{26} \\ P_{24} \\ \hline \end{array}$ $\begin{array}{c c} \ell_{27} \\ P_{25} \\ \hline \end{array}$	P_2 ℓ_{29} P_{23} ℓ_{30} P_{24} ℓ_{31} P_{25}	$egin{array}{ c c c c c }\hline P_2 & & & & & \\ \hline & \ell_{33} & P_{23} & & & \\ \hline & \ell_{34} & P_{24} & & & \\ \hline & \ell_{35} & P_{25} & & \\ \hline & \ell_{35} & & & \\ \hline & \ell_{35} & & & \\ \hline \end{array}$	$egin{array}{ c c c c c c c c c c c c c c c c c c c$	P_{3} I_{37} I_{23} $I_$	$egin{array}{ c c c c c c c c c c c c c c c c c c c$	$egin{array}{ c c c c c c c c c c c c c c c c c c c$	

Line	ℓ_1	ℓ_2	ℓ_6	ℓ_{10}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ_{22}	ℓ_{27}	ℓ_{29}	ℓ_{34}	ℓ_{48}	ℓ_{49}	ℓ_{50}	ℓ_{51}	ℓ_5
in point	P_2	P_2	P_{34}	P_{34}	P_{49}	P_{65}	P_{81}	P_2	P_2	P_2	P_2	P_2	P_2	P_{34}	P_{34}	P_{34}	P_{81}	P_{65}	P_{49}	P_{34}	P_0
Line 24 in	terse	${ m cts}$																			
Line	ℓ_0	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{17}	ℓ_{25}	ℓ_{26}	ℓ_{27}	ℓ_{28}	ℓ_{29}	ℓ_{30}	ℓ_{31}	ℓ_{32}	ℓ_{33}	ℓ_{34}	ℓ_3
in point	P_5	P_3	P_{27}	P_{32}	P_{37}	P_3	P_{27}	P_{32}	P_{37}	P_3	P_5	P_5	P_5	P_3	P_{32}	P_{37}	P_{27}	P_3	P_{37}	P_{27}	P_3

 ${\rm Line}~23~{\rm intersects}$

Line 25 int	tersec	cts																		
Line	ℓ_0	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{18}	ℓ_{21}	ℓ_{24}	ℓ_{26}	ℓ_{27}	ℓ_{28}	ℓ_{29}	ℓ_{30}	ℓ_{31}	ℓ_{32}	ℓ_{33}
in point	P_5	P_{23}	P_{26}	P_{33}	P_{36}	P_{26}	P_{23}	P_{36}	P_{33}	P_{23}	P_{26}	P_5	P_5	P_5	P_{33}	P_{23}	P_{26}	P_{36}	P_{36}	P_{23}
Line 26 int	tersec	cts																		
Line	ℓ_0	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{19}	ℓ_{22}			ℓ_{27}	ℓ_{28}	ℓ_{29}	ℓ_{30}	ℓ_{31}	ℓ_{32}	ℓ_{33}
in point	P_5	P_{24}	P_{29}	P_{30}	P_{35}	P_{30}	P_{35}	P_{24}	P_{29}	P_{24}	P_{30}		P_5	P_5	P_{35}	P_{29}	P_{24}	P_{30}	P_{29}	P_{30}
Line 27 int	tersec	ts																		
Line	ℓ_0	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{20}	ℓ_{23}	ℓ_{24}		ℓ_{26}	ℓ_{28}	ℓ_{29}	ℓ_{30}	ℓ_{31}	ℓ_{32}	ℓ_{33}
in point	P_5	P_{25}	P_{28}	P_{31}	P_{34}	P_{34}	P_{31}	P_{28}	P_{25}	P_{25}	P_{34}	P_5	P_5	P_5	P_{28}	P_{34}	P_{31}	P_{25}	P_{31}	P_{28}
Line 28 int	tersec	ts	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Line	ℓ_0	ℓ_3	ℓ_4	ℓ_5																ℓ_{34} ℓ_3
in point	P_6	P_3	P_{28}	P_{33}	P_{35}	P_3	P_{35}	P_{28}	P_{33}	P_3	P_3 I	P_{33} I			P_6	P_6	P_6 I	$P_3 \mid P$	P_{28} P_{3}	P_{33} P_3
Line 29 int																				
Line	ℓ_0	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{18}	ℓ_{23}	ℓ_{24}	ℓ_{25}						ℓ_{32}	ℓ_{33}
in point	P_6	P_{23}	P_{29}	P_{32}	P_{34}	P_{34}	P_{23}	P_{32}	P_{29}	P_{23}	P_{34}	P_{32}	P_{23}	P_{29}	P_{34}	P_6	P_6	P_6	P_{29}	P_{23}
Line 30 int																				
Line	ℓ_0	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{19}	ℓ_{21}	ℓ_{24}	ℓ_{25}		ℓ_{27}				ℓ_{32}	ℓ_{33}
in point	P_6	P_{24}	P_{26}	P_{31}	P_{37}	P_{26}	P_{31}	P_{24}	P_{37}	P_{24}	P_{26}	P_{37}	P_{26}	P_{24}	P_{31}	P_6	P_6	P_6	P_{31}	P_{37}
Line 31 int																				
Line	ℓ_0	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{20}	ℓ_{22}	ℓ_{24}	ℓ_{25}						ℓ_{32}	ℓ_{33}
in point	P_6	P_{25}	P_{27}	P_{30}	P_{36}	P_{30}	P_{27}	P_{36}	P_{25}	P_{25}	P_{30}	P_{27}	P_{36}	P_{30}	P_{25}	P_6	P_6	P_6	P_{36}	P_{30}
Line 32 int																				
Line	ℓ_0	ℓ_3	ℓ_4	ℓ_5										ℓ_{27}	ℓ_{28} ℓ				ℓ_{33} ℓ	ℓ_{34} ℓ_3
in point	P_7	P_3	P_{29}	P_{31}	P_{36}	P_3	P_{31}	P_{36}	P_{29}	P_3	$P_3 \mid P$	$P_{36} \mid I$	P_{29}	P_{31}	$P_3 \mid P$	P_{29}	P_{31}	P_{36}	P_7	$P_7 \mid P$
Line 33 int																				
Line	ℓ_0	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}		ℓ_{22}				ℓ_{27}			ℓ_{30}		ℓ_{32}
in point	P_7	P_{23}	P_{28}	P_{30}	P_{37}	P_{30}	P_{23}	P_{28}	P_{37}	P_{23}	P_{30}	P_{37}	P_{23}	P_{30}	P_{28}	P_{28}	$_{8} \mid P_{23}$	$_3 \mid P_{37}$	P_{30}	P_7
Line 34 int																				
Line	ℓ_0	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_{10}		ℓ_{12}			ℓ_{23}									
in point	P_7	P_{24}	P_{27}	P_{33}	P_{34}	P_{34}	P_{27}	P_{24}	P_{33}	P_{24}	P_{34}	P_{27}	P_{33}	P_{24}	P_{34}	P_{33}	$_{3} \mid P_{34}$	$_4 \mid P_{24}$	P_{27}	P_7
Line 35 int	tersec	ts																		
Line	ℓ_0	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}		ℓ_{21}	ℓ_{24}								
in point	P_7	P_{25}	P_{26}	P_{32}	P_{35}	P_{26}	P_{35}	P_{32}	P_{25}	P_{25}	P_{26}	P_{32}	P_{26}	P_{35}	P_{25}	P_{35}	$_5 \mid P_{32}$	$_2 \mid P_{26}$	P_{25}	$_{5} \mid P_{7}$

Line 36 in	terse	cts																			
Line	ℓ_1	ℓ_3	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{24}	ℓ_{28}	ℓ_{32}	ℓ_{37}	ℓ_{38}	ℓ_{39}	ℓ_{40}	ℓ_{41}	ℓ_{42}	ℓ_{43}	ℓ_{44}
in point	P_8	P_3	P_{39}	P_{55}	P_{72}	P_3	P_3	P_{39}	P_{55}	P_{72}	P_3	P_3	P_3	P_8	P_8	P_8	P_3	P_{55}	P_{72}	P_{39}	P_3
Line 37 in	torgo	cte																			

Line	ℓ_1	ℓ_3	ℓ_7	ℓ_8	ℓ_9	ℓ_{11}	ℓ_{14}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{25}	ℓ_{29}	ℓ_{33}	ℓ_{36}	ℓ_{38}	ℓ_{39}	ℓ_{40}	ℓ_{41}	ℓ_{42}
in point	P_8	P_{23}	P_{38}	P_{56}	P_{71}	P_{23}	P_{38}	P_{38}	P_{23}	P_{71}	P_{56}	P_{23}	P_{23}	P_{23}	P_8	P_8	P_8	P_{56}	P_{23}	P_{38}

Line 38 in	$ ext{terse}$	cts																		
Line in point	ℓ_1 P_8	ℓ_3 P_{24}	ℓ_7 P_{41}	ℓ_8 P_{53}	ℓ_9 P_{70}	ℓ_{12} P_{24}	ℓ_{15} P_{53}	ℓ_{17} P_{53}	ℓ_{18} P_{70}	ℓ_{19} P_{24}	ℓ_{20} P_{41}	ℓ_{26} P_{24}	ℓ_{30} P_{24}	ℓ_{34} P_{24}	ℓ_{36} P_8	ℓ_{37} P_8	ℓ_{39} P_8	ℓ_{40} P_{70}	ℓ_{41} P_{41}	ℓ_{42} P_{24}
Line 39 in	terse	cts																		
Line in point	ℓ_1 P_8	ℓ_3 P_{25}	ℓ_7 P_{40}	ℓ_8 P_{54}	ℓ_9 P_{69}	ℓ_{13} P_{25}	ℓ_{16} P_{69}	ℓ_{17} P_{69}	ℓ_{18} P_{54}	ℓ_{19} P_{40}	ℓ_{20} P_{25}	ℓ_{27} P_{25}	ℓ_{31} P_{25}	ℓ_{35} P_{25}	ℓ_{36} P_8	ℓ_{37} P_8	ℓ_{38} P_8	ℓ_{40} P_{40}	ℓ_{41} P_{69}	ℓ_{42} P_{54}
Line 40 in	terse	cts																		
Line in point	ℓ_1 P_9	$\begin{array}{ c c c } \ell_3 \\ P_3 \end{array}$	$\begin{array}{c c} \ell_7 \\ \hline P_{40} \end{array}$	ℓ_8 P_{56}	$\begin{array}{c c} \ell_9 \\ \hline P_{70} \end{array}$							P_3 P_3 P_3						$\begin{array}{c cccc} \ell_{41} & \ell_{4} \\ \ell_{9} & P_{1} \end{array}$		
Line 41 in	terse	cts																		
Line in point	ℓ_1 P_9	ℓ_3 P_{23}	ℓ_7 P_{41}	ℓ_8 P_{55}	ℓ_9 P_{69}	ℓ_{11} P_{23}	$\ell_{16} = \ell_{69}$	$\ell_{17} = \ell_{69}$	ℓ_{18} P_{23}	ℓ_{19} P_{55}	ℓ_{20} P_{41}	ℓ_{25} P_{23}	ℓ_{29} P_{23}	ℓ_{33} P_{23}	ℓ_{36} P_{55}	ℓ_{37} P_{23}	ℓ_{38} P_{41}		ℓ_{40}	ℓ_{42} P_9
Line 42 in	terse	cts																		
Line in point	ℓ_1 P_9	ℓ_3 P_{24}	ℓ_7 P_{38}	ℓ_8 P_{54}	ℓ_9 P_{72}	ℓ_{12} P_{24}	ℓ_{14} P_{38}	ℓ_{17} P_{38}	ℓ_{18} P_{54}	ℓ_{19} P_{24}	ℓ_{20} P_{72}	ℓ_{26} P_{24}	ℓ_{30} P_{24}	ℓ_{34} P_{24}	ℓ_{36} P_{72}	ℓ_{37} P_{38}	ℓ_{38}			ℓ_{41}
Line 43 in	terse	cts																		
Line in point	ℓ_1 P_9	ℓ_3 P_{25}	ℓ_7 P_{39}	ℓ_8 P_{53}	ℓ_9 P_{71}	ℓ_{13} P_{25}	ℓ_{15} P_{53}	ℓ_{17} P_{53}	ℓ_{18} P_{39}	ℓ_{19} P_{71}	ℓ_{20} P_{25}	ℓ_{27} P_{25}	ℓ_{31} P_{25}	ℓ_{35} P_{25}	ℓ_{36} P_{39}	ℓ_{37} P_{71}	ℓ_{38} P_{53}			ℓ_{41}
Line 44 in	terse	cts																		
Line in point	ℓ_1 P_{10}	ℓ_3 P_3	ℓ_7 P_{41}	ℓ_8 P_{54}	ℓ_9 P_{71}	$\begin{array}{ c c c }\hline \ell_{10} \\\hline P_3 \end{array}$	ℓ_{17} P_3	ℓ_{18} P_{54}	ℓ_{19} P_{71}	ℓ_{20} P_{41}			P_3 P_3 P_3	P_3 P_3					P_{41} P_{41} P_{41}	P ₅₄
Line 45 in	terse	cts																		
Line in point	ℓ_1 P_{10}	ℓ_3 P_{23}	ℓ_7	ℓ_8 P_{53}	ℓ_9 P_{72}	ℓ_{11} P_{23}	ℓ_{15} P_{53}				ℓ_{20} P_{72}			ℓ_{33} P_{23}	ℓ_{36} P_{72}					
Line 46 in	terse	cts																		
Line in point	ℓ_1 P_{10}	ℓ_3 P_{24}	ℓ_7	ℓ_8 P_{56}	ℓ_9 P_{69}	ℓ_{12} P_{24}	ℓ_{16}				ℓ_{20} P_{56}		ℓ_{30} P_{24}	ℓ_{34} P_{24}	ℓ_{36} P_{39}			$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		10 θ 166 F
Line 47 in	$ ext{terse}$	cts																		

Line	ℓ_1	ℓ_3	ℓ_7	ℓ_8	ℓ_9	ℓ_{12}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{26}	ℓ_{30}	ℓ_{34}	ℓ_{36}	ℓ_{37}	ℓ_{38}	ℓ_{39}	ℓ_{40}	ℓ
in point	P_{10}	P_{24}	P_{39}	P_{56}	P_{69}	P_{24}	P_{69}	P_{69}	P_{39}	P_{24}	P_{56}	P_{24}	P_{24}	P_{24}	P_{39}	P_{56}	P_{24}	P_{69}	P_{56}	P
Line 47 in	tersec	$^{ m ts}$																		

	Line	ℓ_1	ℓ_3	ℓ_7	ℓ_8	ℓ_9	ℓ_{13}	ℓ_{14}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{27}	ℓ_{31}	ℓ_{35}	ℓ_{36}	ℓ_{37}	ℓ_{38}	ℓ_{39}	ℓ_{40}	ℓ_4
	in point	P_{10}	P_{25}	P_{38}	P_{55}	P_{70}	P_{25}	P_{38}	P_{38}	P_{70}	P_{55}	P_{25}	P_{25}	P_{25}	P_{25}	P_{55}	P_{38}	P_{70}	P_{25}	P_{70}	P_5
·	Line 48 int	tersec	ts																		

Line	ℓ_2	ℓ_3	ℓ_{10}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{21}	ℓ_{22}	ℓ_{23}	ℓ_{24}	ℓ_{28}	ℓ_{32}	ℓ_{36}	ℓ_{40}	ℓ_{44}	ℓ_{49}	ℓ_{50}	ℓ_{51}	ℓ_{52}	ℓ_5
in point	P_{11}	P_3	P_3	P_{42}	P_{61}	P_{81}	P_3	P_{42}	P_{61}	P_{81}	P_3	P_3	P_3	P_3	P_3	P_3	P_{11}	P_{11}	P_{11}	P_3	P_6

Line 49 in	tersec	ts																		
Line	ℓ_2	ℓ_4	ℓ_7	ℓ_{10}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{21}	ℓ_{22}	ℓ_{23}	ℓ_{25}	ℓ_{30}	ℓ_{35}	ℓ_{37}	ℓ_{42}	ℓ_{47}	ℓ_{48}	ℓ_{50}	ℓ_{51}
in point	P_{11}	P_{26}	P_{38}	P_{26}	P_{38}	P_{65}	P_{77}	P_{38}	P_{26}	P_{77}	P_{65}	P_{26}	P_{26}	P_{26}	P_{38}	P_{38}	P_{38}	P_{11}	P_{11}	P_1

Ι	Line 50 int	tersect	S																		
	Line	ℓ_2	ℓ_5	ℓ_8	ℓ_{10}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{21}	ℓ_{22}	ℓ_{23}	ℓ_{26}	ℓ_{31}	ℓ_{33}	ℓ_{38}	ℓ_{43}	ℓ_{45}	ℓ_{48}	ℓ_{49}	ℓ_{51}
	in point	P_{11}	P_{30}	P_{53}	P_{30}	P_{49}	P_{53}	P_{73}	P_{53}	P_{73}	P_{30}	P_{49}	P_{30}	P_{30}	P_{30}	P_{53}	P_{53}	P_{53}	P_{11}	P_{11}	P_1

Line 51 intersects

	Line	ℓ_2	ℓ_6	ℓ_9	ℓ_{10}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{21}	ℓ_{22}	ℓ_{23}	ℓ_{27}	ℓ_{29}	ℓ_{34}	ℓ_{39}	ℓ_{41}	ℓ_{46}	ℓ_{48}	ℓ_{49}	ℓ_{50}
ĺ	in point	P_{11}	P_{34}	P_{69}	P_{34}	P_{45}	P_{57}	P_{69}	P_{69}	P_{57}	P_{45}	P_{34}	P_{34}	P_{34}	P_{34}	P_{69}	P_{69}	P_{69}	P_{11}	P_{11}	P_1

Line 52 intersects

Line	ℓ_2	ℓ_3	ℓ_{10}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{21}	ℓ_{22}	ℓ_{23}	ℓ_{24}	ℓ_{28}	ℓ_{32}	ℓ_{36}	ℓ_{40}	ℓ_{44}	ℓ_{48}	ℓ_{49}	ℓ_{50}	ℓ_{51}	ℓ_5
in point	P_{15}	P_3	P_3	P_{45}	P_{65}	P_{73}	P_3	P_{73}	P_{45}	P_{65}	P_3	P_{65}	P_{73}	P_{45}	P_1						

${\rm Line}~53~{\rm intersects}$

Line	ℓ_2	ℓ_4	ℓ_9	ℓ_{10}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{21}	ℓ_{22}	ℓ_{23}	ℓ_{25}	ℓ_{30}	ℓ_{35}	ℓ_{39}	ℓ_{41}	ℓ_{46}	ℓ_{48}	ℓ_{49}	ℓ_{50}
in point	P_{15}	P_{26}	P_{69}	P_{26}	P_{49}	P_{61}	P_{69}	P_{69}	P_{26}	P_{61}	P_{49}	P_{26}	P_{26}	P_{26}	P_{69}	P_{69}	P_{69}	P_{61}	P_{26}	P_4

Line 54 intersects

Line	ℓ_2	ℓ_5	ℓ_7	ℓ_{10}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{21}	ℓ_{22}	ℓ_{23}	ℓ_{26}	ℓ_{31}	ℓ_{33}	ℓ_{37}	ℓ_{42}	ℓ_{47}	ℓ_{48}	ℓ_{49}	ℓ_{50}
in point	P_{15}	P_{30}	P_{38}	P_{30}	P_{38}	P_{57}	P_{81}	P_{38}	P_{57}	P_{30}	P_{81}	P_{30}	P_{30}	P_{30}	P_{38}	P_{38}	P_{38}	P_{81}	P_{38}	P_{30}

${\rm Line}~55~{\rm intersects}$

_																					
	Line	ℓ_2	ℓ_6	ℓ_8	ℓ_{10}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{21}	ℓ_{22}	ℓ_{23}	ℓ_{27}	ℓ_{29}	ℓ_{34}	ℓ_{38}	ℓ_{43}	ℓ_{45}	ℓ_{48}	ℓ_{49}	ℓ_{50}
	in point	P_{15}	P_{34}	P_{53}	P_{34}	P_{42}	P_{53}	P_{77}	P_{53}	P_{42}	P_{77}	P_{34}	P_{34}	P_{34}	P_{34}	P_{53}	P_{53}	P_{53}	P_{42}	P_{77}	P_5

Line 56 intersects

	Line	ℓ_2	ℓ_3	ℓ_{10}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{21}	ℓ_{22}	ℓ_{23}	ℓ_{24}	ℓ_{28}	ℓ_{32}	ℓ_{36}	ℓ_{40}	ℓ_{44}	ℓ_{48}	ℓ_{49}	ℓ_{50}	ℓ_{51}	ℓ_{52}
Ì	in point	P_{19}	P_3	P_3	P_{49}	P_{57}	P_{77}	P_3	P_{57}	P_{77}	P_{49}	P_3	P_{77}	P_{49}	P_{57}	P_3						

Line 57 intersects

Line	ℓ_2	ℓ_4	ℓ_8	ℓ_{10}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{21}	ℓ_{22}	ℓ_{23}	ℓ_{25}	ℓ_{30}	ℓ_{35}	ℓ_{38}	ℓ_{43}	ℓ_{45}	ℓ_{48}	ℓ_{49}	ℓ_{50}
in point	P_{19}	P_{26}	P_{53}	P_{26}	P_{45}	P_{53}	P_{81}	P_{53}	P_{26}	P_{45}	P_{81}	P_{26}	P_{26}	P_{26}	P_{53}	P_{53}	P_{53}	P_{81}	P_{26}	P_5

Line 58 intersects

Line	ℓ_2	ℓ_5	ℓ_9	ℓ_{10}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{21}	ℓ_{22}	ℓ_{23}	ℓ_{26}	ℓ_{31}	ℓ_{33}	ℓ_{39}	ℓ_{41}	ℓ_{46}	ℓ_{48}	ℓ_{49}	ℓ_{50}
in point	P_{19}	P_{30}	P_{69}	P_{30}	P_{42}	P_{65}	P_{69}	P_{69}	P_{42}	P_{30}	P_{65}	P_{30}	P_{30}	P_{30}	P_{69}	P_{69}	P_{69}	P_{42}	P_{65}	P_{30}

Line 59 intersects

Line	ℓ_2	ℓ_6	ℓ_7	ℓ_{10}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{21}	ℓ_{22}	ℓ_{23}	ℓ_{27}	ℓ_{29}	ℓ_{34}	ℓ_{37}	ℓ_{42}	ℓ_{47}	ℓ_{48}	ℓ_{49}	ℓ_{50}
in point	P_{19}	P_{34}	P_{38}	P_{34}	P_{38}	P_{61}	P_{73}	P_{38}	P_{73}	P_{61}	P_{34}	P_{34}	P_{34}	P_{34}	P_{38}	P_{38}	P_{38}	P_{61}	P_{38}	P_7

The surface has 49 points:

The points on the surface are:

$0 \cdot D = (1 \ 0 \ 0)$	$0 \cdot D = (2 \cdot 0 \cdot 1 \cdot 0)$	$19 \cdot D = (9.1.0.1)$
$0: P_0 = (1,0,0,0)$	9: $P_{10} = (3,0,1,0)$	$18: P_{28} = (2, 1, 0, 1)$
$1: P_1 = (0, 1, 0, 0)$	$10: P_{11} = (0, 1, 1, 0)$	$19: P_{29} = (3, 1, 0, 1)$
$2: P_2 = (0, 0, 1, 0)$	$11: P_{15} = (0, 2, 1, 0)$	$20: P_{30} = (0, 2, 0, 1)$
$3: P_3 = (0,0,0,1)$	$12: P_{19} = (0, 3, 1, 0)$	$21: P_{31} = (1, 2, 0, 1)$
$4: P_5 = (1, 1, 0, 0)$	13: $P_{23} = (1, 0, 0, 1)$	$22: P_{32} = (2, 2, 0, 1)$
$5: P_6 = (2, 1, 0, 0)$	$14: P_{24} = (2,0,0,1)$	$23: P_{33} = (3, 2, 0, 1)$
$6: P_7 = (3, 1, 0, 0)$	$15: P_{25} = (3,0,0,1)$	$24: P_{34} = (0, 3, 0, 1)$
$7: P_8 = (1,0,1,0)$	$16: P_{26} = (0, 1, 0, 1)$	$25: P_{35} = (1, 3, 0, 1)$
$8: P_9 = (2,0,1,0)$	$17: P_{27} = (1, 1, 0, 1)$	$26: P_{36} = (2, 3, 0, 1)$

$27: P_{37} = (3, 3, 0, 1)$	$35: P_{53} = (0,0,2,1)$	$43: P_{70} = (1,0,3,1)$
$28: P_{38} = (0,0,1,1)$	$36: P_{54} = (1,0,2,1)$	$44: P_{71} = (2,0,3,1)$
$29: P_{39} = (1, 0, 1, 1)$	$37: P_{55} = (2,0,2,1)$	$45: P_{72} = (3,0,3,1)$
$30: P_{40} = (2,0,1,1)$	$38: P_{56} = (3,0,2,1)$	$46: P_{73} = (0, 1, 3, 1)$
$31: P_{41} = (3,0,1,1)$	$39: P_{57} = (0, 1, 2, 1)$	$47: P_{77} = (0, 2, 3, 1)$
$32: P_{42} = (0, 1, 1, 1)$	$40: P_{61} = (0, 2, 2, 1)$	$48: P_{81} = (0, 3, 3, 1)$
$33: P_{45} = (0, 2, 1, 1)$	$41: P_{65} = (0, 3, 2, 1)$	
$34: P_{49} = (0, 3, 1, 1)$	$42: P_{69} = (0,0,3,1)$	