Rank-24 over GF(64)

January 15, 2021

The equation

The equation of the surface is :

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

General information

| Number of lines | 81 |
|----------------------------|-----------------------|
| Number of points | 5185 |
| Number of singular points | 1 |
| Number of Eckardt points | 0 |
| Number of double points | 0 |
| Number of single points | 5184 |
| Number of points off lines | 0 |
| Number of Hesse planes | 0 |
| Number of axes | 0 |
| Type of points on lines | 65^{81} |
| Type of lines on points | 81, 1 ⁵¹⁸⁴ |

Singular Points

The surface has 1 singular points:

$$0: P_3 = \mathbf{P}(0,0,0,1) = \mathbf{P}(0,0,0,1)$$

The 81 Lines

The lines and their Pluecker coordinates are:

$$\ell_0 = \begin{bmatrix} 1 & 1 & 0 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{8321} = \begin{bmatrix} 1 & 1 & 0 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{8321} = \mathbf{Pl}(0, 0, 0, 1, 1, 0)_{12353}$$

$$\ell_1 = \begin{bmatrix} 1 & \epsilon^{21} & 0 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{241337} = \begin{bmatrix} 1 & 57 & 0 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{241337} = \mathbf{Pl}(0, 0, 0, 57, 1, 0)_{19465}$$

$$\begin{split} \ell_2 &= \begin{bmatrix} 1 & \epsilon^{42} & 0 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{237176} = \begin{bmatrix} 1 & 566 & 0 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{237176} = \mathbf{PI}(0,0,0,56,1,0)_{19338} \\ \ell_3 &= \begin{bmatrix} 1 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{70464} = \begin{bmatrix} 1 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{370464} = \mathbf{PI}(0,1,0,0,1,0)_{4289} \\ \ell_4 &= \begin{bmatrix} 1 & 0 & \epsilon^{21} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{15183488} = \begin{bmatrix} 1 & 0 & 57 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{15183488} = \mathbf{PI}(0,57,0,0,1,0)_{4345} \\ \ell_5 &= \begin{bmatrix} 1 & 0 & \epsilon^{42} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{14917184} = \begin{bmatrix} 1 & 0 & 566 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{14917184} = \mathbf{PI}(0,56,0,0,1,0)_{4344} \\ \ell_6 &= \begin{bmatrix} 0 & 1 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{17043585} = \begin{bmatrix} 0 & 1 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{17043585} = \mathbf{PI}(0,1,0,1,0,0)_{193} \\ \ell_7 &= \begin{bmatrix} 1 & \epsilon^{54} & \epsilon^{15} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{3638154} = \begin{bmatrix} 1 & 10 & 21 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{3638154} = \mathbf{PI}(0,21,0,1,1,0)_{13580} \\ \ell_8 &= \begin{bmatrix} 1 & \epsilon^{33} & \epsilon^{57} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{36389428} = \begin{bmatrix} 1 & 52 & 49 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{3269428} = \mathbf{PI}(0,49,0,52,1,0)_{18942} \\ \ell_9 &= \begin{bmatrix} 1 & \epsilon^{15} & \epsilon^{12} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{36602389} = \begin{bmatrix} 1 & 62 & 36 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{36602389} = \mathbf{PI}(0,62,0,21,1,0)_{15018} \\ \ell_{11} &= \begin{bmatrix} 1 & \epsilon^{36} & \epsilon^{33} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{2871089} = \begin{bmatrix} 1 & 49 & 10 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{14001764} = \mathbf{PI}(0,52,0,36,1,0)_{16913} \\ \ell_{13} &= \begin{bmatrix} 1 & \epsilon^{36} & \epsilon^{33} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{32870848} = \begin{bmatrix} 1 & 11 & 1466 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{4027847} = \begin{bmatrix} 1 & 11 & 146 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{3287048} = \mathbf{PI}(0,46,0,11,1,0)_{13732} \\ \ell_{14} &= \begin{bmatrix} 1 & \epsilon^{18} & \epsilon^{27} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{3287149} = \begin{bmatrix} 1 & 11 & 146 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{3842124} = \mathbf{PI}(0,52,0,36,1,0)_{16913} \\ \ell_{15} &= \begin{bmatrix} 1 & \epsilon^{16} & \epsilon^{66} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{3842124} = \begin{bmatrix} 1 & 15 & 22 & 21 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{3852916} = \mathbf{PI}(0,46,0,11,1,0)_{13846} \\ \ell_{15} &= \begin{bmatrix} 1 & \epsilon^{16} & \epsilon^{66} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{3632714} = \begin{bmatrix} 1 & 10 & 36 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{38542124} = \mathbf{PI}(0,49,0,62,1,0)_{2012} \\ \ell_{19} &= \begin{bmatrix} 1 & \epsilon^{14} & \epsilon^{56} & \epsilon^{66} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{3632714} = \mathbf{PI}(0,49,0,62,1,0)_{2012} \\ \ell_{19} &= \begin{bmatrix} 1 & \epsilon^{14} & \epsilon^{56} & \epsilon^{66} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{363271$$

$$\ell_{23} = \begin{bmatrix} 1 & \epsilon^{30} & \epsilon^{45} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{10082102} = \begin{bmatrix} 1 & 54 & 37 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{10082102} = \mathbf{PI}(0, 37, 0, 54, 1, 0)_{19184}$$

$$\ell_{24} = \begin{bmatrix} 1 & \epsilon^{51} & \epsilon^{3} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{2238617} = \begin{bmatrix} 1 & 25 & 8 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{2238617} = \mathbf{PI}(0, 8, 0, 25, 1, 0)_{15472}$$

$$\ell_{25} = \begin{bmatrix} 1 & \epsilon^{49} & \epsilon^{14} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{15574622} = \begin{bmatrix} 1 & 30 & 58 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{15574622} = \mathbf{PI}(0, 58, 0, 30, 1, 0)_{16157}$$

$$\ell_{26} = \begin{bmatrix} 1 & \epsilon^{28} & \epsilon^{56} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{10010141} = \begin{bmatrix} 1 & 61 & 40 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{10010141} = \mathbf{PI}(0, 40, 0, 61, 1, 0)_{20076}$$

$$\ell_{27} = \begin{bmatrix} 1 & \epsilon^{7} & \epsilon^{35} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{12707693} = \begin{bmatrix} 1 & 35 & 18 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{12707693} = \mathbf{PI}(0, 18, 0, 35, 1, 0)_{16752}$$

$$\ell_{28} = \begin{bmatrix} 1 & \epsilon^{24} & \epsilon^{9} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{12707693} = \begin{bmatrix} 1 & 45 & 47 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{12707693} = \mathbf{PI}(0, 47, 0, 45, 1, 0)_{18051}$$

$$\ell_{29} = \begin{bmatrix} 1 & \epsilon^{45} & \epsilon^{30} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{14538533} = \begin{bmatrix} 1 & 37 & 54 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{14538533} = \mathbf{PI}(0, 54, 0, 37, 1, 0)_{17042}$$

$$\ell_{30} = \begin{bmatrix} 1 & \epsilon^{35} & \epsilon^{50} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{3262223} = \begin{bmatrix} 1 & 15 & 12 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{3262223} = \mathbf{PI}(0, 12, 0, 15, 1, 0)_{14206}$$

$$\ell_{31} = \begin{bmatrix} 1 & \epsilon^{48} & \epsilon^{60} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{3262223} = \begin{bmatrix} 1 & 33 & 11 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{3262223} = \mathbf{PI}(0, 13, 0, 33, 1, 0)_{16491}$$

$$\ell_{32} = \begin{bmatrix} 1 & \epsilon^{67} & \epsilon^{39} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{3669042} = \begin{bmatrix} 1 & 46 & 7 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{3070817} = \mathbf{PI}(0, 11, 0, 33, 1, 0)_{16491}$$

$$\ell_{33} = \begin{bmatrix} 1 & \epsilon^{51} & \epsilon^{30} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{16490042} = \begin{bmatrix} 1 & 46 & 7 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{3070817} = \mathbf{PI}(0, 61, 0, 58, 1, 0)_{19716}$$

$$\ell_{33} = \begin{bmatrix} 1 & \epsilon^{57} & \epsilon^{39} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{3991240} = \begin{bmatrix} 1 & 46 & 7 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{3070817} = \mathbf{PI}(0, 61, 0, 58, 1, 0)_{19716}$$

$$\ell_{35} = \begin{bmatrix} 1 & \epsilon^{56} & \epsilon^{79} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{3991240} = \begin{bmatrix} 1 & 46 & 7 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{3991240} = \mathbf{PI}(0, 61, 0, 58, 1, 0)_{1950}$$

$$\ell_{37} = \begin{bmatrix} 1 & \epsilon^{30} & \epsilon^{49} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{3991433} = \begin{bmatrix} 1 & 58 & 6$$

$$\begin{split} \ell_{44} &= \begin{bmatrix} 1 & \epsilon^3 & \epsilon^{30} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{14417864} = \begin{bmatrix} 1 & 8 & 54 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{14417864} = \mathbf{Pl}(0,54,0,8,1,0)_{13359} \\ \ell_{45} &= \begin{bmatrix} 1 & \epsilon^{24} & \epsilon^{51} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{649005} = \begin{bmatrix} 1 & 45 & 25 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{641905} = \mathbf{Pl}(0,25,0,45,1,0)_{18029} \\ \ell_{46} &= \begin{bmatrix} 1 & \epsilon^{57} & \epsilon^{12} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{16718897} = \begin{bmatrix} 1 & 49 & 62 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{16718897} = \mathbf{Pl}(0,62,0,49,1,0)_{18574} \\ \ell_{47} &= \begin{bmatrix} 1 & \epsilon^{36} & \epsilon^{54} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{2816996} = \begin{bmatrix} 1 & 36 & 10 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{2816996} = \mathbf{Pl}(0,10,0,36,1,0)_{16871} \\ \ell_{48} &= \begin{bmatrix} 1 & \epsilon^{15} & \epsilon^{33} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{13939349} = \begin{bmatrix} 1 & 21 & 52 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{13939349} = \mathbf{Pl}(0,52,0,21,1,0)_{15098} \\ \ell_{49} &= \begin{bmatrix} 1 & \epsilon^{49} & \epsilon^{56} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{10781150} = \begin{bmatrix} 1 & 30 & 40 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{15595427} = \mathbf{Pl}(0,58,0,35,1,0)_{16792} \\ \ell_{50} &= \begin{bmatrix} 1 & \epsilon^{49} & \epsilon^{56} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{10781150} = \mathbf{Pl}(0,40,0,30,1,0)_{16139} \\ \ell_{51} &= \begin{bmatrix} 1 & \epsilon^{28} & \epsilon^{45} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{16664804} = \begin{bmatrix} 1 & 36 & 62 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{16664804} = \mathbf{Pl}(0,62,0,36,1,0)_{16923} \\ \ell_{52} &= \begin{bmatrix} 1 & \epsilon^{15} & \epsilon^{54} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{14055857} = \begin{bmatrix} 1 & 41 & 18 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{16664804} = \mathbf{Pl}(0,62,0,36,1,0)_{16924} \\ \ell_{54} &= \begin{bmatrix} 1 & \epsilon^{57} & \epsilon^{33} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{12091865} = \begin{bmatrix} 1 & 47 & 47 & 37 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{12091865} = \mathbf{Pl}(0,52,0,49,1,0)_{18044} \\ \ell_{55} &= \begin{bmatrix} 1 & \epsilon^{35} & \epsilon^{45} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{12091865} = \begin{bmatrix} 1 & 47 & 48 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{12091865} = \mathbf{Pl}(0,8,0,54,1,0)_{19125} \\ \ell_{58} &= \begin{bmatrix} 1 & \epsilon^{36} & \epsilon^{60} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{3337121} = \begin{bmatrix} 1 & 33 & 12 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{3337121} = \mathbf{Pl}(0,14,0,46,1,0)_{18142} \\ \ell_{60} &= \begin{bmatrix} 1 & \epsilon^{48} & \epsilon^{30} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{33377121} = \begin{bmatrix} 1 & 46 & 61 & 11 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{3337121} = \mathbf{Pl}(0,7,0,15,1,0)_{14201} \\ \ell_{61} &= \begin{bmatrix} 1 & \epsilon^{48} & \epsilon^{30} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{33377121} = \begin{bmatrix} 1 & 46 & 61 & 10 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{3253736} = \mathbf{Pl}(0,54,0,45,1,0)_{1805} \\ \ell_{62} &= \begin{bmatrix} 1 & \epsilon^{48} & \epsilon^{30} & 0 \\ 0 & 0$$

$$\begin{split} &\ell_{65} = \begin{bmatrix} 1 & \epsilon^{60} & \epsilon^{27} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{12304076} = \begin{bmatrix} 1 & 12 & 46 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{12304076} = \mathbf{PI}(0, 46, 0, 12, 1, 0)_{13859} \\ &\ell_{66} = \begin{bmatrix} 1 & \epsilon^{39} & \epsilon^{6} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{8821319} = \begin{bmatrix} 1 & 7 & 33 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{8821319} = \mathbf{PI}(0, 33, 0, 7, 1, 0)_{13211} \\ &\ell_{67} = \begin{bmatrix} 1 & \epsilon^{27} & \epsilon^{60} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{3391214} = \begin{bmatrix} 1 & 46 & 12 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{3391214} = \mathbf{PI}(0, 12, 0, 46, 1, 0)_{18143} \\ &\ell_{68} = \begin{bmatrix} 1 & \epsilon^{48} & \epsilon^{18} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{2995919} = \begin{bmatrix} 1 & 15 & 11 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{2995919} = \mathbf{PI}(0, 11, 0, 15, 1, 0)_{14205} \\ &\ell_{69} = \begin{bmatrix} 1 & \epsilon^{6} & \epsilon^{39} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{2005601} = \begin{bmatrix} 1 & 33 & 7 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{2005601} = \mathbf{PI}(0, 7, 0, 33, 1, 0)_{16487} \\ &\ell_{70} = \begin{bmatrix} 0 & 1 & \epsilon^{21} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{17047225} = \begin{bmatrix} 0 & 1 & 57 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{17047225} = \mathbf{PI}(0, 57, 0, 1, 0, 0)_{249} \\ &\ell_{71} = \begin{bmatrix} 0 & 1 & \epsilon^{42} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{17047225} = \begin{bmatrix} 0 & 1 & 56 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{17047225} = \mathbf{PI}(0, 58, 0, 61, 1, 0)_{20094} \\ &\ell_{72} = \begin{bmatrix} 1 & \epsilon^{28} & \epsilon^{14} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{15703613} = \begin{bmatrix} 1 & 61 & 58 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{15703613} = \mathbf{PI}(0, 40, 0, 35, 1, 0)_{16774} \\ &\ell_{74} = \begin{bmatrix} 1 & \epsilon^{49} & \epsilon^{35} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{4922462} = \begin{bmatrix} 1 & 30 & 18 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{16415144} = \mathbf{PI}(0, 61, 0, 40, 1, 0)_{17430} \\ &\ell_{75} = \begin{bmatrix} 1 & \epsilon^{56} & \epsilon^{28} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{3399698} = \begin{bmatrix} 1 & 18 & 35 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{3399698} = \mathbf{PI}(0, 35, 0, 18, 1, 0)_{14610} \\ &\ell_{77} = \begin{bmatrix} 1 & \epsilon^{14} & \epsilon^{49} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{3234618} = \begin{bmatrix} 1 & 58 & 30 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{32334618} = \mathbf{PI}(0, 46, 0, 7, 1, 0)_{13224} \\ &\ell_{79} = \begin{bmatrix} 1 & \epsilon^{16} & \epsilon^{60} & \epsilon^{48} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{32387963} = \begin{bmatrix} 1 & 17 & 46 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{32837963} = \mathbf{PI}(0, 33, 0, 11, 1, 0)_{13719} \\ &\mathbf{PI}(0, 46, 0, 7, 1, 0)_{13224} \\ &\ell_{80} = \begin{bmatrix} 1 & \epsilon^{18} & \epsilon^{6} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{3837963} = \begin{bmatrix} 1 & 11 & 33 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{3837963} = \mathbf{PI}(0, 33, 0, 11, 1, 0)_{13719} \\ &\ell_{80} = \begin{bmatrix} 1 & \epsilon^{18} & \epsilon^{6} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{3837$$

Rank of lines: (8321, 241337, 237176, 270464, 15183488, 14917184, 17043585, 5638154, 13269428, 9849086, 16602389, 2871089, 14001764, 4027847, 12299915, 8842124, 5812916, 13311038, 9632714, 5854526, 13094666, 9807476, 12183407, 10082102, 2238617, 15574622, 10910141, 4943267, 12707693, 14538533, 6695048, 3262223, 3070817, 2059694, 16490042, 9491240, 8068178, 12212534, 9961433, 2330159, 16323602, 9566138, 8159720, 12674405, 14417864, 6849005, 16718897, 2816996, 13939349, 15595427, ...4048652, 12283271, 8837963) Rank of points on Klein quadric: <math>(12353, 19465, 19338, 4289, 4345, 4344, 193, 13580, 18942, 20199, 15018, 18522, 16913, 13193, 13732, 13846, 18914, 20212, 13595, 20184, 13608, 18929, 18303, 19184, 15472, 16157, 20076, 16752, 18051, 17042, 13330, 14206, 16491, 18138, 19716, 17404, 14605, 19192, 15501, 18266, 14636, 19690, 17399, 17035, 13359, 18029, 18574, 16871, 15008, 16792, ...13828, 13224, 13719)

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 5184 single points: Too many to print.

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

| | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|----------------|-------|-----|-----|-------|-----|-----|-----|------|-----|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|----|-----|----|-----|----|----|----|----|----|-----|-----|-----|------|-----|
| | 0 | 123 | 45 | 67 | 89 | 10 | 11 | 12 | 13 : | 14 | 15 1 | 161 | 7 1 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 303 | 313 | 32: | 33 3 | 43 | 553 | 63 | 738 | 83 | 94 | 04 | 14 | 24 | :34 | 4 4 | 454 | 16 4 | 47 |
| _ | <u>n n -</u> | 111 | 1 1 | 1 1 | 11 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | ٠ ٠ | | | | | | | | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | | _ | | _ | _ | _ | _ | _ | | | - | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 1 1 (| 11 | 1 1 | 1 1 | . 1 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | Τ | 1 | 1 | 1 | 1 : | I | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 2 1 | 01 | 11 | 11 | 11 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 3 1 1 | 110 | 1 1 | 1 1 | 11 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| • | ٠ | | | | | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | | _ | _ | _ | _ | _ | _ | | _ | | _ | _ | _ | _ | - | - | 1 . | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | _ | _ |
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| ļ | 5 1 1 | 111 | 10 | 1 1 | 11 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 2 1 1 | 111 | 1 1 | Λ 1 | 11 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ' | 0 1 . | 111 | 1 1 | 0.1 | 11 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 . | 1 | 1 | 1 | 1 | 1 | 1 | 1 | _ | _ | _ |
| , | 7 1 1 | l 1 1 | 11 | 10 | 11 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| , | 2 1 1 | 111 | 1 1 | 1 1 | 0.1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Ì | ٠ <u>-</u> - | | | | | _ | - | _ | - | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | - | _ | _ | _ | _ | _ | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | _ | _ | _ |
| | 9 1 . | 111 | 1 1 | 1 1 | 10 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | Τ | 1 | 1 | 1 | 1 . | I | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 10 | 0 1 1 | 111 | 11 | 11 | 11 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 1 | 1 1 1 | 111 | 1 1 | 1 1 | 1 1 | 1 | Ω | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 1. | - 1 | | | | | | - | | | | | | | | | | | | | | | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | 1. | 1 | 1 | 1 | 1. | 1 | 1 | 1 | 1 | _ | _ |
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| 1: | 3 1 | 111 | 11 | 11 | 11 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 1. | 1 1 1 | 111 | 1 1 | 1 1 | 1 1 | 1 | 1 | 1 | 1 | Ω | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
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| 1. | 5 1 | l 1 1 | 11 | 11 | . 11 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 : | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 10 | 6 1 1 | 111 | 11 | 11 | 11 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 1' | - | 111 | | | | | | | | | | - | | | | | | | | | | | | | | | | | | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| _ | . | | | | | _ | _ | | _ | _ | _ | _ | ~ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | | _ | _ | _ | _ | _ | _ | 1 . | _ | - | _ | - | _ | - | 1 | _ | _ | _ |
| 18 | 8 1 | l 1 1 | 11 | 1 1 | . 11 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 : | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 19 | 9 1 1 | 111 | 11 | 1 1 | 11 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 20 | , I | 111 | | | | _ | _ | _ | _ | _ | _ | _ | _ | _ | - | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | _ | 1 | _ |
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| 25 | 2 1 | 111 | 11 | 11 | 11 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 : | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 2 1 1 | 111 | 1 1 | 1 1 | 1 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | Ω | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
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| 2 | 5 1 | 111 | 11 | 11 | 11 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 : | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 20 | s 1 1 | 111 | 1 1 | 1 1 | 1 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | Ω | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
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| 2' | (1 | l 1 1 | 1 1 | 1 1 | 11 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | U | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 28 | 8 1 : | l 1 1 | 11 | 11 | 11 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 29 | a 1 1 | 111 | 1 1 | 1 1 | 1 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | Λ | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | · | | | | | | | | | | | | | | | | | | | | | | | | - | | | | | | | | | | | | | | | | | | |
| 30 | IJĮ. | l 1 1 | 1 1 | 1 1 | 11 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | U | 1 | 1 | 1 | 1 | 1 | 1 | 1 . | I | 1 | T | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3 | 1 1 | 111 | 11 | 11 | 11 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 : | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 35 | 0 1 1 | 111 | 1 1 | 1 1 | 11 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | Ω | 1 | 1 | 1 | 1 | 1 . | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| _ | _ | | | | | _ | _ | | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | | _ | - | _ | _ | _ | _ | | _ | _ | _ | | _ | _ | - | | | |
| 3. | 3 1 . | l 1 1 | 1 1 | 1 1 | 11 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | U | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3 | 4 1 | l 1 1 | 11 | 11 | 11 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3 | 5 1 1 | 111 | 1 1 | 1 1 | 1 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | Ω | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| _ | ~ | | | | | _ | _ | _ | _ | | _ | _ | _ | | _ | _ | _ | | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | - | _ | | _ | _ | _ | _ | _ | _ | _ | _ | | |
| | | 111 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3' | 7 1 : | 111 | 11 | 1 1 | 11 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3 | 8 1 1 | 111 | 1.1 | 1 1 | 11 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 (| n | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | - 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | - 1 | 111 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 40 | 0 1 | l 1 1 | 11 | 11 | 11 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 4 | 1 1 1 | 111 | 11 | 1 1 | 11 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 |
| | - 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | - 1 | 111 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4: | 3 1 | l 1 1 | 11 | 11 | 11 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 |
| 4 | 4 1 1 | 111 | 11 | 1 1 | 11 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 |
| | | 111 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 4 | 6 1 | l 1 1 | 11 | 11 | . 11 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 |
| 4' | 7 1 | 111 | 11 | 11 | 11 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 |
| | - 1 | 111 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | 111 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | - 1 | 111 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 3 1 | l 1 1 | 11 | 11 | 11 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | 111 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | - 1 | 111 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | - 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| - 50 | i Π΄ | 111 | 1.1 | 1.1 | 1.1 | - 1 | - 1 | - 1 | - 1 | - 1 | - 1 | 1 | 1 | - 1 | - 1 | - 1 | - 1 | - 1 | - 1 | - 1 | - 1 | - 1 | - [| - 1 | - 1 | - 1 | - 1 | - 1 | - 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | - 1 | 1 | - 1 |

| Neighbor s Line 0 inte | | | line | inter | secti | on gr | aph: | | | | | | | | | | | | | | | | |
|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---|
| Line | ℓ_1 | ℓ_2 | ℓ_3 | ℓ_4 | ℓ_5 | ℓ_6 | ℓ_7 | ℓ_8 | ℓ_9 | ℓ_{10} | ℓ_{11} | ℓ_{12} | ℓ_{13} | ℓ_{14} | ℓ_{15} | ℓ_{16} | ℓ_{17} | ℓ_{18} | ℓ_{19} | ℓ_{20} | ℓ_{21} | ℓ_{22} |] |
| in point | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | |
| Line 1 inte | ersect | s | | | | | | | | | | | | | | | | | | | | | |
| Line | ℓ_0 | ℓ_2 | ℓ_3 | ℓ_4 | ℓ_5 | ℓ_6 | ℓ_7 | ℓ_8 | ℓ_9 | ℓ_{10} | ℓ_{11} | ℓ_{12} | ℓ_{13} | ℓ_{14} | ℓ_{15} | ℓ_{16} | ℓ_{17} | ℓ_{18} | ℓ_{19} | ℓ_{20} | ℓ_{21} | ℓ_{22} | _ |
| in point | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | |
| Line 2 inte | ersect | S | | | | | | | | | | | | | | | | | | | | | |
| 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_{21} | ℓ_{22} | |
| in point | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | |
| Line 3 inte | ersect | S | | | | | | | | | | | | | | | | | | | | | |
| Line | ℓ_0 | ℓ_1 | ℓ_2 | ℓ_4 | ℓ_5 | ℓ_6 | ℓ_7 | ℓ_8 | ℓ_9 | ℓ_{10} | ℓ_{11} | ℓ_{12} | ℓ_{13} | ℓ_{14} | ℓ_{15} | ℓ_{16} | ℓ_{17} | ℓ_{18} | ℓ_{19} | ℓ_{20} | ℓ_{21} | ℓ_{22} | |
| in point | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | |
| Line 4 inte | ersect | S | | | | | | | | | | | | | | | | | | | | | |
| Line | ℓ_0 | ℓ_1 | ℓ_2 | ℓ_3 | ℓ_5 | ℓ_6 | ℓ_7 | ℓ_8 | ℓ_9 | ℓ_{10} | ℓ_{11} | ℓ_{12} | ℓ_{13} | ℓ_{14} | ℓ_{15} | ℓ_{16} | ℓ_{17} | ℓ_{18} | ℓ_{19} | ℓ_{20} | ℓ_{21} | ℓ_{22} |] |
| in point | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | |
| Line 5 inte | ersect | S | | | | | | | | | | | | | | | | | | | | | |
| Line | ℓ_0 | ℓ_1 | ℓ_2 | ℓ_3 | ℓ_4 | ℓ_6 | ℓ_7 | ℓ_8 | ℓ_9 | ℓ_{10} | ℓ_{11} | ℓ_{12} | ℓ_{13} | ℓ_{14} | ℓ_{15} | ℓ_{16} | ℓ_{17} | ℓ_{18} | ℓ_{19} | ℓ_{20} | ℓ_{21} | ℓ_{22} | Į |
| in point | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | |
| Line 6 inte | ersect | | | | | | | | | | | | | | | | | | | | | | |
| Line | ℓ_0 | ℓ_1 | ℓ_2 | ℓ_3 | ℓ_4 | ℓ_5 | ℓ_7 | ℓ_8 | ℓ_9 | ℓ_{10} | ℓ_{11} | ℓ_{12} | ℓ_{13} | ℓ_{14} | ℓ_{15} | ℓ_{16} | ℓ_{17} | ℓ_{18} | ℓ_{19} | ℓ_{20} | ℓ_{21} | ℓ_{22} | |
| in point | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | |
| Line 7 inte | ersect | s | | | | | | | | | | | | | | | | | | | | | |
| Line | ℓ_0 | ℓ_1 | ℓ_2 | ℓ_3 | ℓ_4 | ℓ_5 | ℓ_6 | ℓ_8 | ℓ_9 | ℓ_{10} | ℓ_{11} | ℓ_{12} | ℓ_{13} | ℓ_{14} | ℓ_{15} | ℓ_{16} | ℓ_{17} | ℓ_{18} | ℓ_{19} | ℓ_{20} | ℓ_{21} | ℓ_{22} | Į |
| in point | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | |
| Line 8 inte | ersect | s | | | | | | | | | | | | | | | | | | | | | |
| Line | ℓ_0 | ℓ_1 | ℓ_2 | ℓ_3 | ℓ_4 | ℓ_5 | ℓ_6 | ℓ_7 | ℓ_9 | ℓ_{10} | ℓ_{11} | ℓ_{12} | ℓ_{13} | ℓ_{14} | ℓ_{15} | ℓ_{16} | ℓ_{17} | ℓ_{18} | ℓ_{19} | ℓ_{20} | ℓ_{21} | ℓ_{22} | I |
| in point | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | |
| Line 9 inte | ersect | S | | | | | | | | | | | | | | | | | | | | | |
| Line | ℓ_0 | ℓ_1 | ℓ_2 | ℓ_3 | ℓ_4 | ℓ_5 | ℓ_6 | ℓ_7 | ℓ_8 | ℓ_{10} | ℓ_{11} | ℓ_{12} | ℓ_{13} | ℓ_{14} | ℓ_{15} | ℓ_{16} | ℓ_{17} | ℓ_{18} | ℓ_{19} | ℓ_{20} | ℓ_{21} | ℓ_{22} | |
| in point | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | |
| Line 10 in | terse | cts | | | | | | | | | | | | | | | | | | | | | |
| Line | ℓ_0 | ℓ_1 | ℓ_2 | ℓ_3 | ℓ_4 | ℓ_5 | ℓ_6 | ℓ_7 | ℓ_8 | ℓ_9 | ℓ_{11} | ℓ_{12} | ℓ_{13} | ℓ_{14} | ℓ_{15} | ℓ_{16} | ℓ_{17} | ℓ_{18} | ℓ_{19} | ℓ_{20} | ℓ_{21} | ℓ_{22} | |
| in point | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | Ĺ |
| Line 11 in | terse | cts | | | | | | | | | | | | | | | | | | | | | |

 ℓ_8

 P_3

 ℓ_9

 P_3

 ℓ_{10}

 P_3

 ℓ_6

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Line

in point

 ℓ_3

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 ℓ_{18}

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 ℓ_{19}

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 ℓ_{20}

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| Line 12 int | ersec | ets | | | | | | | | | | | | | | | | | | | | |
|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------------|
| Line | ℓ_0 | ℓ_1 | ℓ_2 | ℓ_3 | ℓ_4 | ℓ_5 | ℓ_6 | ℓ_7 | ℓ_8 | ℓ_9 | ℓ_{10} | ℓ_{11} | ℓ_{13} | ℓ_{14} | ℓ_{15} | ℓ_{16} | ℓ_{17} | ℓ_{18} | ℓ_{19} | ℓ_{20} | ℓ_{21} | ℓ_{22} ℓ |
| in point | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 |
| Line 13 int | ersec | ets | | | | | | | | | | | | | | | | | | | | |
| Line | ℓ_0 | ℓ_1 | ℓ_2 | ℓ_3 | ℓ_4 | ℓ_5 | ℓ_6 | ℓ_7 | ℓ_8 | ℓ_9 | ℓ_{10} | ℓ_{11} | ℓ_{12} | ℓ_{14} | ℓ_{15} | ℓ_{16} | ℓ_{17} | ℓ_{18} | ℓ_{19} | ℓ_{20} | ℓ_{21} | ℓ_{22} ℓ |
| in point | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 |
| Line 14 int | ersec | ets | | | | | | | | | | | | | | | | | | | | |
| Line | ℓ_0 | ℓ_1 | ℓ_2 | ℓ_3 | ℓ_4 | ℓ_5 | ℓ_6 | ℓ_7 | ℓ_8 | ℓ_9 | ℓ_{10} | ℓ_{11} | ℓ_{12} | ℓ_{13} | ℓ_{15} | ℓ_{16} | ℓ_{17} | ℓ_{18} | ℓ_{19} | ℓ_{20} | ℓ_{21} | ℓ_{22} ℓ |
| in point | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 |
| Line 15 int | ersec | ets | | | | | | | | | | | | | | | | | | | | |
| Line | ℓ_0 | ℓ_1 | ℓ_2 | ℓ_3 | ℓ_4 | ℓ_5 | ℓ_6 | ℓ_7 | ℓ_8 | ℓ_9 | ℓ_{10} | ℓ_{11} | ℓ_{12} | ℓ_{13} | ℓ_{14} | ℓ_{16} | ℓ_{17} | ℓ_{18} | ℓ_{19} | ℓ_{20} | ℓ_{21} | ℓ_{22} ℓ |
| in point | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 . |
| Line 16 in | ersec | ets | | | | | | | | | | | | | | | | | | | | |
| Line | ℓ_0 | ℓ_1 | ℓ_2 | ℓ_3 | ℓ_4 | ℓ_5 | ℓ_6 | ℓ_7 | ℓ_8 | ℓ_9 | ℓ_{10} | ℓ_{11} | ℓ_{12} | ℓ_{13} | ℓ_{14} | ℓ_{15} | ℓ_{17} | ℓ_{18} | ℓ_{19} | ℓ_{20} | ℓ_{21} | ℓ_{22} ℓ |
| in point | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 |
| Line 17 int | ersec | cts | | | | | | | | | | | | | | | | | | | | |
| Line | ℓ_0 | ℓ_1 | ℓ_2 | ℓ_3 | ℓ_4 | ℓ_5 | ℓ_6 | ℓ_7 | ℓ_8 | ℓ_9 | ℓ_{10} | ℓ_{11} | ℓ_{12} | ℓ_{13} | ℓ_{14} | ℓ_{15} | ℓ_{16} | ℓ_{18} | ℓ_{19} | ℓ_{20} | ℓ_{21} | ℓ_{22} ℓ |
| in point | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 |
| Line 18 int | | cts | | | | | | | | | | | | | | | | | | | | |
| Line | ℓ_0 | ℓ_1 | ℓ_2 | ℓ_3 | ℓ_4 | ℓ_5 | ℓ_6 | ℓ_7 | ℓ_8 | ℓ_9 | ℓ_{10} | ℓ_{11} | ℓ_{12} | ℓ_{13} | ℓ_{14} | ℓ_{15} | ℓ_{16} | ℓ_{17} | ℓ_{19} | ℓ_{20} | ℓ_{21} | ℓ_{22} ℓ |
| in point | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 . |
| Line 19 int | ersec | ets | | | | | | | | | | | | | | | | | | | | |
| Line | ℓ_0 | ℓ_1 | ℓ_2 | ℓ_3 | ℓ_4 | ℓ_5 | ℓ_6 | ℓ_7 | ℓ_8 | ℓ_9 | ℓ_{10} | ℓ_{11} | ℓ_{12} | ℓ_{13} | ℓ_{14} | ℓ_{15} | ℓ_{16} | ℓ_{17} | ℓ_{18} | ℓ_{20} | ℓ_{21} | ℓ_{22} ℓ |
| in point | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 . |
| Line 20 int | ersec | ets | | | | | | | | | | | | | | | | | | | | |
| Line | ℓ_0 | ℓ_1 | ℓ_2 | ℓ_3 | ℓ_4 | ℓ_5 | ℓ_6 | ℓ_7 | ℓ_8 | ℓ_9 | ℓ_{10} | ℓ_{11} | ℓ_{12} | ℓ_{13} | ℓ_{14} | ℓ_{15} | ℓ_{16} | ℓ_{17} | ℓ_{18} | ℓ_{19} | ℓ_{21} | ℓ_{22} ℓ |
| in point | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 . |
| Line 21 int | ersec | cts | | | | | | | | | | | | | | | | | | | | |
| Line | ℓ_0 | ℓ_1 | ℓ_2 | ℓ_3 | ℓ_4 | ℓ_5 | ℓ_6 | ℓ_7 | ℓ_8 | ℓ_9 | ℓ_{10} | ℓ_{11} | ℓ_{12} | ℓ_{13} | ℓ_{14} | ℓ_{15} | ℓ_{16} | ℓ_{17} | ℓ_{18} | ℓ_{19} | ℓ_{20} | ℓ_{22} ℓ |
| in point | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 |
| Line 22 int | ersec | cts | | | | | | | | | | | | | | | | | | | | |
| Line | ℓ_0 | ℓ_1 | ℓ_2 | ℓ_3 | ℓ_4 | ℓ_5 | ℓ_6 | ℓ_7 | ℓ_8 | ℓ_9 | ℓ_{10} | ℓ_{11} | ℓ_{12} | ℓ_{13} | ℓ_{14} | ℓ_{15} | ℓ_{16} | ℓ_{17} | ℓ_{18} | ℓ_{19} | ℓ_{20} | ℓ_{21} ℓ |
| in point | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 |
| Line 23 int | ersec | ets | | | | | | | | | | | | | | | | | | | | |
| Line | ℓ_0 | ℓ_1 | ℓ_2 | ℓ_3 | ℓ_4 | ℓ_5 | ℓ_6 | ℓ_7 | ℓ_8 | ℓ_9 | ℓ_{10} | ℓ_{11} | ℓ_{12} | ℓ_{13} | ℓ_{14} | ℓ_{15} | ℓ_{16} | ℓ_{17} | ℓ_{18} | ℓ_{19} | ℓ_{20} | ℓ_{21} ℓ |
| in point | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 |
| Line 24 int | ersec | cts | | | | | | | | | | | | | | | | | | | | |
| Line | ℓ_0 | ℓ_1 | ℓ_2 | ℓ_3 | ℓ_4 | ℓ_5 | ℓ_6 | ℓ_7 | ℓ_8 | ℓ_9 | ℓ_{10} | ℓ_{11} | ℓ_{12} | ℓ_{13} | ℓ_{14} | ℓ_{15} | ℓ_{16} | ℓ_{17} | ℓ_{18} | ℓ_{19} | ℓ_{20} | ℓ_{21} ℓ |
| in point | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 |

| Line 25 in | | cts | | | | | | | | | | | | | | | | | | | | |
|------------|----------|------------|----------|----------|----------|----------|----------|----------|----------|----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------------|
| Line | ℓ_0 | ℓ_1 | ℓ_2 | ℓ_3 | ℓ_4 | ℓ_5 | ℓ_6 | ℓ_7 | ℓ_8 | ℓ_9 | ℓ_{10} | ℓ_{11} | ℓ_{12} | ℓ_{13} | ℓ_{14} | ℓ_{15} | ℓ_{16} | ℓ_{17} | ℓ_{18} | ℓ_{19} | ℓ_{20} | ℓ_{21} ℓ |
| in point | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 |
| Line 26 in | tersec | cts | | | | | | | | | | | | | | | | | | | | |
| Line | ℓ_0 | ℓ_1 | ℓ_2 | ℓ_3 | ℓ_4 | ℓ_5 | ℓ_6 | ℓ_7 | ℓ_8 | ℓ_9 | ℓ_{10} | ℓ_{11} | ℓ_{12} | ℓ_{13} | ℓ_{14} | ℓ_{15} | ℓ_{16} | ℓ_{17} | ℓ_{18} | ℓ_{19} | ℓ_{20} | ℓ_{21} ℓ |
| in point | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 . |
| Line 27 in | tersec | cts | | | | | | | | | | | | | | | | | | | | |
| Line | ℓ_0 | ℓ_1 | ℓ_2 | ℓ_3 | ℓ_4 | ℓ_5 | ℓ_6 | ℓ_7 | ℓ_8 | ℓ_9 | ℓ_{10} | ℓ_{11} | ℓ_{12} | ℓ_{13} | ℓ_{14} | ℓ_{15} | ℓ_{16} | ℓ_{17} | ℓ_{18} | ℓ_{19} | ℓ_{20} | ℓ_{21} ℓ |
| in point | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 |
| Line 28 in | tersec | cts | | | | | | | | | | | | | | | | | | | | |
| Line | ℓ_0 | ℓ_1 | ℓ_2 | ℓ_3 | ℓ_4 | ℓ_5 | ℓ_6 | ℓ_7 | ℓ_8 | ℓ_9 | ℓ_{10} | ℓ_{11} | ℓ_{12} | ℓ_{13} | ℓ_{14} | ℓ_{15} | ℓ_{16} | ℓ_{17} | ℓ_{18} | ℓ_{19} | ℓ_{20} | ℓ_{21} ℓ |
| in point | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 . |
| Line 29 in | terse | cts | | | | | | | | | | | | | | | | | | | | |
| Line | ℓ_0 | ℓ_1 | ℓ_2 | ℓ_3 | ℓ_4 | ℓ_5 | ℓ_6 | ℓ_7 | ℓ_8 | ℓ_9 | ℓ_{10} | ℓ_{11} | ℓ_{12} | ℓ_{13} | ℓ_{14} | ℓ_{15} | ℓ_{16} | ℓ_{17} | ℓ_{18} | ℓ_{19} | ℓ_{20} | ℓ_{21} ℓ |
| in point | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 . |
| Line 30 in | tersec | cts | | | | | | | | | | | | | | | | | | | | |
| Line | ℓ_0 | ℓ_1 | ℓ_2 | ℓ_3 | ℓ_4 | ℓ_5 | ℓ_6 | ℓ_7 | ℓ_8 | ℓ_9 | ℓ_{10} | ℓ_{11} | ℓ_{12} | ℓ_{13} | ℓ_{14} | ℓ_{15} | ℓ_{16} | ℓ_{17} | ℓ_{18} | ℓ_{19} | ℓ_{20} | ℓ_{21} ℓ |
| in point | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 |
| Line 31 in | tersec | cts | | | | | | | | | | | | | | | | | | | | |
| Line | ℓ_0 | ℓ_1 | ℓ_2 | ℓ_3 | ℓ_4 | ℓ_5 | ℓ_6 | ℓ_7 | ℓ_8 | ℓ_9 | ℓ_{10} | ℓ_{11} | ℓ_{12} | ℓ_{13} | ℓ_{14} | ℓ_{15} | ℓ_{16} | ℓ_{17} | ℓ_{18} | ℓ_{19} | ℓ_{20} | ℓ_{21} ℓ |
| in point | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 |
| Line 32 in | tersec | cts | | | | | | | | | | | | | | | | | | | | |
| Line | ℓ_0 | ℓ_1 | ℓ_2 | ℓ_3 | ℓ_4 | ℓ_5 | ℓ_6 | ℓ_7 | ℓ_8 | ℓ_9 | ℓ_{10} | ℓ_{11} | ℓ_{12} | ℓ_{13} | ℓ_{14} | ℓ_{15} | ℓ_{16} | ℓ_{17} | ℓ_{18} | ℓ_{19} | ℓ_{20} | ℓ_{21} ℓ |
| in point | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 . |
| Line 33 in | tersec | cts | | | | | | | | | | | | | | | | | | | | |
| Line | ℓ_0 | ℓ_1 | ℓ_2 | ℓ_3 | ℓ_4 | ℓ_5 | ℓ_6 | ℓ_7 | ℓ_8 | ℓ_9 | ℓ_{10} | ℓ_{11} | ℓ_{12} | ℓ_{13} | ℓ_{14} | ℓ_{15} | ℓ_{16} | ℓ_{17} | ℓ_{18} | ℓ_{19} | ℓ_{20} | ℓ_{21} ℓ |
| in point | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 . |
| Line 34 in | tersec | cts | | | | | | | | | | | | | | | | | | | | |
| Line | ℓ_0 | ℓ_1 | ℓ_2 | ℓ_3 | ℓ_4 | ℓ_5 | ℓ_6 | ℓ_7 | ℓ_8 | ℓ_9 | ℓ_{10} | ℓ_{11} | ℓ_{12} | ℓ_{13} | ℓ_{14} | ℓ_{15} | ℓ_{16} | ℓ_{17} | ℓ_{18} | ℓ_{19} | ℓ_{20} | ℓ_{21} ℓ |
| in point | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 . |
| Line 35 in | terse | cts | | | | | | | | | | | | | | | | | | | | |
| Line | ℓ_0 | ℓ_1 | ℓ_2 | ℓ_3 | ℓ_4 | ℓ_5 | ℓ_6 | ℓ_7 | ℓ_8 | ℓ_9 | ℓ_{10} | ℓ_{11} | ℓ_{12} | ℓ_{13} | ℓ_{14} | ℓ_{15} | ℓ_{16} | ℓ_{17} | ℓ_{18} | ℓ_{19} | ℓ_{20} | ℓ_{21} ℓ |
| in point | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 . |
| Line 36 in | terse | ${ m cts}$ | | | | • | • | • | | • | • | • | • | • | • | • | • | • | | • | | |
| Line | ℓ_0 | ℓ_1 | ℓ_2 | ℓ_3 | ℓ_4 | ℓ_5 | ℓ_6 | ℓ_7 | ℓ_8 | ℓ_9 | ℓ_{10} | ℓ_{11} | ℓ_{12} | ℓ_{13} | ℓ_{14} | ℓ_{15} | ℓ_{16} | ℓ_{17} | ℓ_{18} | ℓ_{19} | ℓ_{20} | ℓ_{21} ℓ |
| in point | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 |
| Line 37 in | | | - | | | | | | | 1 | | 1 | | | | | | | | | | |
| Line | ℓ_0 | ℓ_1 | ℓ_2 | ℓ_3 | ℓ_4 | ℓ_5 | ℓ_6 | ℓ_7 | ℓ_8 | ℓ_9 | ℓ_{10} | ℓ_{11} | ℓ_{12} | ℓ_{13} | ℓ_{14} | ℓ_{15} | ℓ_{16} | ℓ_{17} | ℓ_{18} | ℓ_{19} | ℓ_{20} | ℓ_{21} ℓ |

in point

| Line 38 in | terse | ets | | | | | | | | | | | | | | | | | | | | |
|---------------------|----------|----------------|----------|----------|----------|----------|----------|----------|----------|----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|----------------------------|
| Line | ℓ_0 | ℓ_1 | ℓ_2 | ℓ_3 | ℓ_4 | ℓ_5 | ℓ_6 | ℓ_7 | ℓ_8 | ℓ_9 | ℓ_{10} | ℓ_{11} | ℓ_{12} | ℓ_{13} | ℓ_{14} | ℓ_{15} | ℓ_{16} | ℓ_{17} | ℓ_{18} | ℓ_{19} | ℓ_{20} | ℓ_{21} |
| in point | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 . |
| Line 39 in | terse | cts | | | | | | | | | | | | | | | | | | | | |
| Line | ℓ_0 | ℓ_1 | ℓ_2 | ℓ_3 | ℓ_4 | ℓ_5 | ℓ_6 | ℓ_7 | ℓ_8 | ℓ_9 | ℓ_{10} | ℓ_{11} | ℓ_{12} | ℓ_{13} | ℓ_{14} | ℓ_{15} | ℓ_{16} | ℓ_{17} | ℓ_{18} | ℓ_{19} | ℓ_{20} | ℓ_{21} ℓ |
| in point | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 . |
| Line 40 in | terse | ets | | | | | | | | | | | | | | | | | | | | |
| Line | ℓ_0 | ℓ_1 | ℓ_2 | ℓ_3 | ℓ_4 | ℓ_5 | ℓ_6 | ℓ_7 | ℓ_8 | ℓ_9 | ℓ_{10} | ℓ_{11} | ℓ_{12} | ℓ_{13} | ℓ_{14} | ℓ_{15} | ℓ_{16} | ℓ_{17} | ℓ_{18} | ℓ_{19} | ℓ_{20} | ℓ_{21} ℓ |
| in point | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 . |
| Line 41 in | terse | ets | | | | | | | | | | | | | | | | | | | | |
| Line | ℓ_0 | ℓ_1 | ℓ_2 | ℓ_3 | ℓ_4 | ℓ_5 | ℓ_6 | ℓ_7 | ℓ_8 | ℓ_9 | ℓ_{10} | ℓ_{11} | ℓ_{12} | ℓ_{13} | ℓ_{14} | ℓ_{15} | ℓ_{16} | ℓ_{17} | ℓ_{18} | ℓ_{19} | ℓ_{20} | $\mid \ell_{21} \mid \ell$ |
| in point | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 . |
| Line 42 in | terse | ets | | | | | | | | | | | | | | | | | | | | |
| Line | ℓ_0 | ℓ_1 | ℓ_2 | ℓ_3 | ℓ_4 | ℓ_5 | ℓ_6 | ℓ_7 | ℓ_8 | ℓ_9 | ℓ_{10} | ℓ_{11} | ℓ_{12} | ℓ_{13} | ℓ_{14} | ℓ_{15} | ℓ_{16} | ℓ_{17} | ℓ_{18} | ℓ_{19} | ℓ_{20} | ℓ_{21} ℓ |
| in point | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 . |
| Line 43 in | terse | ets | | | | | | | | | | | | | | | | | | | | |
| Line | ℓ_0 | ℓ_1 | ℓ_2 | ℓ_3 | ℓ_4 | ℓ_5 | ℓ_6 | ℓ_7 | ℓ_8 | ℓ_9 | ℓ_{10} | ℓ_{11} | ℓ_{12} | ℓ_{13} | ℓ_{14} | ℓ_{15} | ℓ_{16} | ℓ_{17} | ℓ_{18} | ℓ_{19} | ℓ_{20} | $\mid \ell_{21} \mid \ell$ |
| in point | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 . |
| Line 44 in | terse | cts | | | | | | | | | | | | | | | | | | | | |
| Line | ℓ_0 | ℓ_1 | ℓ_2 | ℓ_3 | ℓ_4 | ℓ_5 | ℓ_6 | ℓ_7 | ℓ_8 | ℓ_9 | ℓ_{10} | ℓ_{11} | ℓ_{12} | ℓ_{13} | ℓ_{14} | ℓ_{15} | ℓ_{16} | ℓ_{17} | ℓ_{18} | ℓ_{19} | ℓ_{20} | ℓ_{21} ℓ |
| in point | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 . |
| Line 45 in | terse | ets | | | | | | | | | | | | | | | | | | | | |
| Line | ℓ_0 | ℓ_1 | ℓ_2 | ℓ_3 | ℓ_4 | ℓ_5 | ℓ_6 | ℓ_7 | ℓ_8 | ℓ_9 | ℓ_{10} | ℓ_{11} | ℓ_{12} | ℓ_{13} | ℓ_{14} | ℓ_{15} | ℓ_{16} | ℓ_{17} | ℓ_{18} | ℓ_{19} | ℓ_{20} | ℓ_{21} ℓ |
| in point Line 46 in | P_3 | P ₃ | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 |
| Line 40 in | ersec | | | | | | | | | | | | | | | | | | | | | |
| Line | ℓ_0 | ℓ_1 | ℓ_2 | ℓ_3 | ℓ_4 | ℓ_5 | ℓ_6 | ℓ_7 | ℓ_8 | ℓ_9 | ℓ_{10} | ℓ_{11} | ℓ_{12} | ℓ_{13} | ℓ_{14} | ℓ_{15} | ℓ_{16} | ℓ_{17} | ℓ_{18} | ℓ_{19} | ℓ_{20} | ℓ_{21} ℓ |
| in point | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 . |
| Line 47 in | | cts | | | | | | | | | | | | | | | | | | | | |
| Line | ℓ_0 | ℓ_1 | ℓ_2 | ℓ_3 | ℓ_4 | ℓ_5 | ℓ_6 | ℓ_7 | ℓ_8 | ℓ_9 | ℓ_{10} | ℓ_{11} | ℓ_{12} | ℓ_{13} | ℓ_{14} | ℓ_{15} | ℓ_{16} | ℓ_{17} | ℓ_{18} | ℓ_{19} | ℓ_{20} | ℓ_{21} ℓ |
| in point | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 . |
| Line 48 in | terse | ets | | | | | | | | | | | | | | | | | | | | |
| Line | ℓ_0 | ℓ_1 | ℓ_2 | ℓ_3 | ℓ_4 | ℓ_5 | ℓ_6 | ℓ_7 | ℓ_8 | ℓ_9 | ℓ_{10} | ℓ_{11} | ℓ_{12} | ℓ_{13} | ℓ_{14} | ℓ_{15} | ℓ_{16} | ℓ_{17} | ℓ_{18} | ℓ_{19} | ℓ_{20} | ℓ_{21} ℓ |
| in point | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 . |
| Line 49 in | | ets | | | | | | | | | | | | | | | | | | | | |
| Line | ℓ_0 | ℓ_1 | ℓ_2 | ℓ_3 | ℓ_4 | ℓ_5 | ℓ_6 | ℓ_7 | ℓ_8 | ℓ_9 | ℓ_{10} | ℓ_{11} | ℓ_{12} | ℓ_{13} | ℓ_{14} | ℓ_{15} | ℓ_{16} | ℓ_{17} | ℓ_{18} | ℓ_{19} | ℓ_{20} | ℓ_{21} ℓ |
| in point | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 . |
| Line 50 in | terse | cts | | | | | | | | | | | | | | | | | | | | |
| Line | ℓ_0 | ℓ_1 | ℓ_2 | ℓ_3 | ℓ_4 | ℓ_5 | ℓ_6 | ℓ_7 | ℓ_8 | ℓ_9 | ℓ_{10} | ℓ_{11} | ℓ_{12} | ℓ_{13} | ℓ_{14} | ℓ_{15} | ℓ_{16} | ℓ_{17} | ℓ_{18} | ℓ_{19} | ℓ_{20} | ℓ_{21} ℓ |

 P_3

| Line 51 intersects | |
|---|-------------|
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$ | |
| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$ | <u>l</u> . |
| Line 52 intersects | |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$ | |
| in point $ P_3 P_3 $ | ⊥- |
| Line 53 intersects | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 1 |
| in point $ P_3 $ | ┸ |
| Line 54 intersects | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | |
| in point $ P_3 P_3 $ | |
| Line 55 intersects | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 1 |
| in point $ P_3 P_3 $ | <u>l</u> |
| Line 56 intersects | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | |
| in point $ P_3 P_3 $ | ⊥- |
| Line 57 intersects | |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$ | + |
| Line 58 intersects | |
| | \top_{I} |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 1 |
| Line 59 intersects | |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$ | 1 |
| in point $ P_3 P_3 $ | |
| Line 60 intersects | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | |
| in point $ P_3 P_3 $ | ⊥- |
| Line 61 intersects | |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$ | |
| Line 62 intersects | |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$ | $\exists i$ |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | |
| Line 63 intersects | |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$ | \top_{i} |
| in point P ₃ P ₃ | |

| Line 64 int | ersec | ets | | | | | | | | | | | | | | | | | | | | |
|-------------|----------|------------|----------|----------|----------|----------|----------|----------|----------|----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------------------|
| Line | ℓ_0 | ℓ_1 | ℓ_2 | ℓ_3 | ℓ_4 | ℓ_5 | ℓ_6 | ℓ_7 | ℓ_8 | ℓ_9 | ℓ_{10} | ℓ_{11} | ℓ_{12} | ℓ_{13} | ℓ_{14} | ℓ_{15} | ℓ_{16} | ℓ_{17} | ℓ_{18} | ℓ_{19} | ℓ_{20} | ℓ_{21} ℓ |
| in point | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 . |
| Line 65 int | ersec | ets | | | | | | | | | | | | | | | | | | | | |
| Line | ℓ_0 | ℓ_1 | ℓ_2 | ℓ_3 | ℓ_4 | ℓ_5 | ℓ_6 | ℓ_7 | ℓ_8 | ℓ_9 | ℓ_{10} | ℓ_{11} | ℓ_{12} | ℓ_{13} | ℓ_{14} | ℓ_{15} | ℓ_{16} | ℓ_{17} | ℓ_{18} | ℓ_{19} | ℓ_{20} | $\ell_{21} \mid \ell$ |
| in point | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 . |
| Line 66 int | ersec | ${ m cts}$ | | | | | | | | | | | | | | | | | | | | |
| Line | ℓ_0 | ℓ_1 | ℓ_2 | ℓ_3 | ℓ_4 | ℓ_5 | ℓ_6 | ℓ_7 | ℓ_8 | ℓ_9 | ℓ_{10} | ℓ_{11} | ℓ_{12} | ℓ_{13} | ℓ_{14} | ℓ_{15} | ℓ_{16} | ℓ_{17} | ℓ_{18} | ℓ_{19} | ℓ_{20} | ℓ_{21} ℓ |
| in point | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 . |
| Line 67 int | ersec | ets | | | | | | | | | | | | | | | | | | | | |
| Line | ℓ_0 | ℓ_1 | ℓ_2 | ℓ_3 | ℓ_4 | ℓ_5 | ℓ_6 | ℓ_7 | ℓ_8 | ℓ_9 | ℓ_{10} | ℓ_{11} | ℓ_{12} | ℓ_{13} | ℓ_{14} | ℓ_{15} | ℓ_{16} | ℓ_{17} | ℓ_{18} | ℓ_{19} | ℓ_{20} | ℓ_{21} ℓ |
| in point | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 . |
| Line 68 int | ersec | ets | | | | | | | | | | | | | | | | | | | | |
| Line | ℓ_0 | ℓ_1 | ℓ_2 | ℓ_3 | ℓ_4 | ℓ_5 | ℓ_6 | ℓ_7 | ℓ_8 | ℓ_9 | ℓ_{10} | ℓ_{11} | ℓ_{12} | ℓ_{13} | ℓ_{14} | ℓ_{15} | ℓ_{16} | ℓ_{17} | ℓ_{18} | ℓ_{19} | ℓ_{20} | ℓ_{21} ℓ |
| in point | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 . |
| Line 69 int | ersec | ets | | | | | | | | | | | | | | | | | | | | |
| Line | ℓ_0 | ℓ_1 | ℓ_2 | ℓ_3 | ℓ_4 | ℓ_5 | ℓ_6 | ℓ_7 | ℓ_8 | ℓ_9 | ℓ_{10} | ℓ_{11} | ℓ_{12} | ℓ_{13} | ℓ_{14} | ℓ_{15} | ℓ_{16} | ℓ_{17} | ℓ_{18} | ℓ_{19} | ℓ_{20} | ℓ_{21} ℓ |
| in point | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 . |
| Line 70 int | ersec | ets | | | | | | | | | | | | | | | | | | | | |
| Line | ℓ_0 | ℓ_1 | ℓ_2 | ℓ_3 | ℓ_4 | ℓ_5 | ℓ_6 | ℓ_7 | ℓ_8 | ℓ_9 | ℓ_{10} | ℓ_{11} | ℓ_{12} | ℓ_{13} | ℓ_{14} | ℓ_{15} | ℓ_{16} | ℓ_{17} | ℓ_{18} | ℓ_{19} | ℓ_{20} | ℓ_{21} ℓ |
| in point | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 . |
| Line 71 int | ersec | cts | | | | | | | | | | | | | | | | | | | | |
| Line | ℓ_0 | ℓ_1 | ℓ_2 | ℓ_3 | ℓ_4 | ℓ_5 | ℓ_6 | ℓ_7 | ℓ_8 | ℓ_9 | ℓ_{10} | ℓ_{11} | ℓ_{12} | ℓ_{13} | ℓ_{14} | ℓ_{15} | ℓ_{16} | ℓ_{17} | ℓ_{18} | ℓ_{19} | ℓ_{20} | ℓ_{21} ℓ |
| in point | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 . |
| Line 72 int | ersec | ets | | | | | | | | | | | | | | | | | | | | |
| Line | ℓ_0 | ℓ_1 | ℓ_2 | ℓ_3 | ℓ_4 | ℓ_5 | ℓ_6 | ℓ_7 | ℓ_8 | ℓ_9 | ℓ_{10} | ℓ_{11} | ℓ_{12} | ℓ_{13} | ℓ_{14} | ℓ_{15} | ℓ_{16} | ℓ_{17} | ℓ_{18} | ℓ_{19} | ℓ_{20} | ℓ_{21} ℓ |
| in point | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | $P_3 \mid .$ |
| Line 73 int | ersec | ets | | | | | | | | | | | | | | | | | | | | |
| Line | ℓ_0 | ℓ_1 | ℓ_2 | ℓ_3 | ℓ_4 | ℓ_5 | ℓ_6 | ℓ_7 | ℓ_8 | ℓ_9 | ℓ_{10} | ℓ_{11} | ℓ_{12} | ℓ_{13} | ℓ_{14} | ℓ_{15} | ℓ_{16} | ℓ_{17} | ℓ_{18} | ℓ_{19} | ℓ_{20} | ℓ_{21} ℓ |
| in point | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 . |
| Line 74 int | ersec | ets | | | | | | | | | | | | | | | | | | | | |
| Line | ℓ_0 | ℓ_1 | ℓ_2 | ℓ_3 | ℓ_4 | ℓ_5 | ℓ_6 | ℓ_7 | ℓ_8 | ℓ_9 | ℓ_{10} | ℓ_{11} | ℓ_{12} | ℓ_{13} | ℓ_{14} | ℓ_{15} | ℓ_{16} | ℓ_{17} | ℓ_{18} | ℓ_{19} | ℓ_{20} | ℓ_{21} ℓ |
| in point | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | $P_3 \mid .$ |
| Line 75 int | ersec | cts | | | | | | | | | | | | | | | | | | | | |
| Line | ℓ_0 | ℓ_1 | ℓ_2 | ℓ_3 | ℓ_4 | ℓ_5 | ℓ_6 | ℓ_7 | ℓ_8 | ℓ_9 | ℓ_{10} | ℓ_{11} | ℓ_{12} | ℓ_{13} | ℓ_{14} | ℓ_{15} | ℓ_{16} | ℓ_{17} | ℓ_{18} | ℓ_{19} | ℓ_{20} | $\ell_{21} \mid \ell$ |
| in point | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 . |
| Line 76 int | ersec | cts | | | | | | | | | | | | | | | | | | | | |
| Line | ℓ_0 | ℓ_1 | ℓ_2 | ℓ_3 | ℓ_4 | ℓ_5 | ℓ_6 | ℓ_7 | ℓ_8 | ℓ_9 | ℓ_{10} | ℓ_{11} | ℓ_{12} | ℓ_{13} | ℓ_{14} | ℓ_{15} | ℓ_{16} | ℓ_{17} | ℓ_{18} | ℓ_{19} | ℓ_{20} | ℓ_{21} ℓ |
| in point | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 . |

Line 77 intersects

| Line | ℓ_0 | ℓ_1 | ℓ_2 | ℓ_3 | ℓ_4 | ℓ_5 | ℓ_6 | ℓ_7 | ℓ_8 | ℓ_9 | ℓ_{10} | ℓ_{11} | ℓ_{12} | ℓ_{13} | ℓ_{14} | ℓ_{15} | ℓ_{16} | ℓ_{17} | ℓ_{18} | ℓ_{19} | ℓ_{20} | ℓ_{21} | |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--|
| in point | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | |

Line 78 intersects

| Line | ℓ_0 | ℓ_1 | ℓ_2 | ℓ_3 | ℓ_4 | ℓ_5 | ℓ_6 | ℓ_7 | ℓ_8 | ℓ_9 | ℓ_{10} | ℓ_{11} | ℓ_{12} | ℓ_{13} | ℓ_{14} | ℓ_{15} | ℓ_{16} | ℓ_{17} | ℓ_{18} | ℓ_{19} | ℓ_{20} | ℓ_{21} | |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---|
| in point | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | L |

${\bf Line~79~intersects}$

| Line | ℓ_0 | ℓ_1 | ℓ_2 | ℓ_3 | ℓ_4 | ℓ_5 | ℓ_6 | ℓ_7 | ℓ_8 | ℓ_9 | ℓ_{10} | ℓ_{11} | ℓ_{12} | ℓ_{13} | ℓ_{14} | ℓ_{15} | ℓ_{16} | ℓ_{17} | ℓ_{18} | ℓ_{19} | ℓ_{20} | ℓ_{21} | |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--|
| in point | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | |

Line 80 intersects

| Line | ℓ_0 | ℓ_1 | ℓ_2 | ℓ_3 | ℓ_4 | ℓ_5 | ℓ_6 | ℓ_7 | ℓ_8 | ℓ_9 | ℓ_{10} | ℓ_{11} | ℓ_{12} | ℓ_{13} | ℓ_{14} | ℓ_{15} | ℓ_{16} | ℓ_{17} | ℓ_{18} | ℓ_{19} | ℓ_{20} | ℓ_{21} ℓ |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------------|
| in point | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 |

The surface has 5185 points:

Too many to print.