Rank-69 over GF(32)

January 15, 2021

The equation

The equation of the surface is:

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

General information

| Number of lines | 41 |
|----------------------------|----------------|
| Number of points | 1313 |
| Number of singular points | 1 |
| Number of Eckardt points | 0 |
| Number of double points | 0 |
| Number of single points | 1312 |
| Number of points off lines | 0 |
| Number of Hesse planes | 0 |
| Number of axes | 0 |
| Type of points on lines | 33^{41} |
| Type of lines on points | $41, 1^{1312}$ |

Singular Points

The surface has 1 singular points:

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

The 41 Lines

The lines and their Pluecker coordinates are:

$$\ell_0 = \begin{bmatrix} 0 & 1 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1082433} = \begin{bmatrix} 0 & 1 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1082433} = \mathbf{Pl}(0, 1, 0, 1, 0, 0)_{97}$$

$$\begin{split} \ell_1 &= \begin{bmatrix} 1 & \eta^{27} & \eta^{28} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{790635} = \begin{bmatrix} 1 & 11 & 23 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{790635} = \mathbf{Pl}(0,23,0,11,1,0)_{3789} \\ \ell_2 &= \begin{bmatrix} 1 & \eta^{15} & \eta^{28} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{777951} = \begin{bmatrix} 1 & 31 & 22 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{777951} = \mathbf{Pl}(0,22,0,31,1,0)_{5048} \\ \ell_3 &= \begin{bmatrix} 1 & \eta^{23} & \eta^{5} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{180031} = \begin{bmatrix} 1 & 15 & 5 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{180031} = \mathbf{Pl}(0,5,0,15,1,0)_{4023} \\ \ell_4 &= \begin{bmatrix} 1 & \eta^4 & \eta^{17} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{600624} = \begin{bmatrix} 1 & 16 & 19 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{600624} = \mathbf{Pl}(0,19,0,16,1,0)_{4100} \\ \ell_5 &= \begin{bmatrix} 1 & \eta^{23} & \eta^{21} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{828687} = \begin{bmatrix} 1 & 15 & 24 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{826682} = \mathbf{Pl}(0,24,0,15,1,0)_{4042} \\ \ell_6 &= \begin{bmatrix} 1 & \eta^{30} & \eta^{25} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{828687} = \begin{bmatrix} 1 & 18 & 25 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{885682} = \mathbf{Pl}(0,24,0,15,1,0)_{4042} \\ \ell_7 &= \begin{bmatrix} 1 & \eta^8 & \eta^3 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{285389} = \begin{bmatrix} 1 & 13 & 8 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{865682} = \mathbf{Pl}(0,8,0,13,1,0)_{3900} \\ \ell_8 &= \begin{bmatrix} 1 & \eta^{15} & \eta^{10} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{608831} = \begin{bmatrix} 1 & 31 & 17 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{3832954} = \mathbf{Pl}(0,17,0,31,1,0)_{5043} \\ \ell_{10} &= \begin{bmatrix} 1 & \eta^7 & \eta^{27} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{334280} = \begin{bmatrix} 1 & 26 & 9 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{334280} = \mathbf{Pl}(0,11,0,20,1,0)_{4344} \\ \ell_{11} &= \begin{bmatrix} 1 & \eta^{12} & \eta^{23} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{33502} = \begin{bmatrix} 1 & 14 & 2 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{3352954} = \mathbf{Pl}(0,15,0,24,1,0)_{4600} \\ \ell_{13} &= \begin{bmatrix} 1 & \eta^{11} & \eta^{15} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1056999} = \begin{bmatrix} 1 & 7 & 31 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1056999} = \mathbf{Pl}(0,31,0,7,1,0)_{3545} \\ \ell_{14} &= \begin{bmatrix} 1 & \eta^{27} & \eta^{7} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{680133} = \begin{bmatrix} 1 & 18 & 21 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{730386} = \mathbf{Pl}(0,20,0,11,1,0)_{3666} \\ \ell_{15} &= \begin{bmatrix} 1 & \eta^{22} & \eta^{70} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{680133} = \begin{bmatrix} 1 & 18 & 21 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{730386} = \mathbf{Pl}(0,20,0,11,1,0)_{4144} \\ \ell_{19} &= \begin{bmatrix} 1 & \eta^{15} & \eta^{11} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{270591} = \begin{bmatrix} 1 & 18 & 21 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{270591} = \mathbf{Pl}(0,12,0,18,1,0)_{4219} \\ \ell_{21} &= \begin{bmatrix} 1 & \eta^{30} & \eta^{30} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{270591} = \begin{bmatrix} 1 & 18 & 12 & 0 \\ 0 & 0 & 0 &$$

$$\begin{split} \ell_{22} &= \begin{bmatrix} 1 & \eta^{16} & \eta^6 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{367835} = \begin{bmatrix} 1 & 27 & 10 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{367835} = \mathbf{PI}(0,10,0,27,1,0)_{4784} \\ \ell_{23} &= \begin{bmatrix} 1 & \eta^{26} & \eta^{27} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{397431} = \begin{bmatrix} 1 & 23 & 11 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{397431} = \mathbf{PI}(0,11,0,23,1,0)_{4533} \\ \ell_{24} &= \begin{bmatrix} 1 & \eta^{24} & \eta^2 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{168062} = \begin{bmatrix} 1 & 30 & 4 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{168062} = \mathbf{PI}(0,4,0,30,1,0)_{4967} \\ \ell_{25} &= \begin{bmatrix} 1 & \eta^{14} & \eta^{23} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{539669} = \begin{bmatrix} 1 & 29 & 15 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{539669} = \mathbf{PI}(0,15,0,29,1,0)_{4915} \\ \ell_{26} &= \begin{bmatrix} 1 & \eta^{18} & \eta^{27} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{376291} = \begin{bmatrix} 1 & 3 & 11 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{376291} = \mathbf{PI}(0,11,0,3,1,0)_{3273} \\ \ell_{27} &= \begin{bmatrix} 1 & \eta^{25} & \eta^{30} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{636313} &= \begin{bmatrix} 1 & 25 & 18 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{636313} = \mathbf{PI}(0,18,0,25,1,0)_{4666} \\ \ell_{28} &= \begin{bmatrix} 1 & \eta^{10} & \eta^{15} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1067569} &= \begin{bmatrix} 1 & 17 & 31 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1067569} &= \mathbf{PI}(0,31,0,17,1,0)_{4175} \\ \ell_{30} &= \begin{bmatrix} 1 & \eta^{20} & \eta^{30} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{311814} &= \begin{bmatrix} 1 & 6 & 9 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{311814} &= \mathbf{PI}(0,9,0,6,1,0)_{3460} \\ \ell_{32} &= \begin{bmatrix} 1 & \eta^{20} & \eta^{30} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{997807} &= \begin{bmatrix} 1 & 15 & 29 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{997807} &= \mathbf{PI}(0,30,0,4,1,0)_{3750} \\ \ell_{34} &= \begin{bmatrix} 1 & \eta^{27} & \eta^{18} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1020044} &= \mathbf{PI}(0,30,0,4,1,0)_{3769} \\ \ell_{35} &= \begin{bmatrix} 1 & \eta^{27} & \eta^{18} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1020044} &= \begin{bmatrix} 1 & 11 & 3 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1020044} &= \mathbf{PI}(0,30,0,4,1,0)_{3668} \\ \ell_{35} &= \begin{bmatrix} 1 & \eta^{27} & \eta^{18} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{164155} &= \begin{bmatrix} 1 & 11 & 3 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1957641} &= \mathbf{PI}(0,16,0,19,1,0)_{4286} \\ \ell_{36} &= \begin{bmatrix} 1 & \eta^{29} & \eta^{33} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{562323} &= \begin{bmatrix} 1 & 19 & 16 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{557641} &= \mathbf{PI}(0,16,0,19,1,0)_{4286} \\ \ell_{38} &= \begin{bmatrix} 1 & \eta^{28} & \eta^{15} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{562323} &= \begin{bmatrix} 1 & 15 & 15 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{562323} &= \mathbf{PI}(0,16,0,19,1,0)_{4286} \\ \ell_{39} &= \begin{bmatrix} 1 & \eta^{28} & \eta^{15} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{562323} &= \begin{bmatrix} 1 & 22 & 31 & 0 \\ 0 & 0 & 0 &$$

Rank of lines: (1082433, 790635, 777951, 186031, 660624, 828687, 865682, 285389, 608831, 332954, 394260, 83502, 533784, 1056999, 476706, 889993, 689163, 730386, 632085, 270591, 425970, 213513, 367835, 397431, 168062, 539069, 376291, 636313, 449224, 1067569, 622572, 311814, 924874, 997807, 1020004, 114155, 957641, 562323, 513701, 1072854, 335068)

Rank of points on Klein quadric: (97, 3789, 5048, 4023, 4100, 4042, 4232, 3900, 5043, 4720, 4344, 3957, 4600, 3545, 3213, 3666, 3786, 4228, 4414, 5033, 4219, 3646, 4784, 4533, 4967, 4915, 3273, 4666, 3590, 4175, 3847, 3460, 3730, 4047, 3355, 3769, 3668, 4286, 3403, 4490, 4846)

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 1312 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

| $ 0\ 1\ 2\ 3\ 4\ 5\ 6\ 7\ 8\ 9\ 10\ 11\ 12\ 13\ 14\ 15\ 16\ 17\ 18\ 19\ 20\ 21\ 22\ 23\ 24\ 25\ 26\ 27\ 28\ 29\ 30\ 31\ 32\ 33\ 34\ 35\ 3$ | 36 37 38 39 40 |
|--------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| 0 0111111111 1 1 1 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 |
| | 1 1 1 1 1 |
| 2 11011111111 1 1 1 1 1 1 | 1 1 1 1 1 |
| $3 \begin{vmatrix} 1 & 1 & 1 & 0 & 1 & 1 & 1 & 1 & 1 & 1 &$ | 1 1 1 1 1 |
| 4 1111011111 | 1 1 1 1 1 |
| 5 11111101111 1 1 1 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 |
| $6 \begin{vmatrix} 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1$ | 1 1 1 1 1 |
| 7 1111111011 1 1 1 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 |
| 8 11111111101 1 1 1 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 |
| 9 1111111110 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 |
| 10 1111111111 0 1 1 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 |
| 11 1111111111 1 0 1 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 |
| 12 1111111111 1 1 0 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 |
| 13 1111111111 1 1 1 1 0 1 1 1 1 1 1 1 1 | 1 1 1 1 1 |
| 14 1111111111 1 1 1 1 1 0 1 1 1 1 1 1 1 | 1 1 1 1 1 |
| 15 1111111111 1 1 1 1 1 1 0 1 1 1 1 1 1 | 1 1 1 1 1 |
| | 1 1 1 1 1 |
| 17 1111111111 | 1 1 1 1 1 |
| 18 1111111111 1 1 1 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 |
| 19 1111111111 1 1 1 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 |
| 20 1111111111 1 1 1 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 |
| | 1 1 1 1 1 |
| 22 1111111111 1 1 1 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 |
| 23 1111111111 | 1 1 1 1 1 |
| 24 1111111111 | 1 1 1 1 1 |
| 25 1111111111 | 1 1 1 1 1 |
| 26 1111111111 | 1 1 1 1 1 |
| - , | 1 1 1 1 1 |
| | 1 1 1 1 1 |
| 29 1111111111 | 1 1 1 1 1 |
| | 1 1 1 1 1 |
| | |
| <u> </u> | 1 1 1 1 1 |
| | |
| *- | 1 1 1 1 1 |
| | 1 1 1 1 1 |
| ** | 0 1 1 1 1 |
| 37 1111111111 | 1 0 1 1 1 |
| 38 11111111111 1 1 1 1 1 1 1 1 1 1 1 1 1 | 1 1 0 1 1 |
| 39 1111111111 | 1 1 1 0 1 |
| 40 11111111111 | 1 1 1 1 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_{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 | Ī |

Line 1 intersects

| Line | ℓ_0 | ℓ_2 | ℓ_3 | ℓ_4 | ℓ_5 | ℓ_6 | ℓ_7 | ℓ_8 | ℓ_9 | ℓ_{10} | ℓ_{11} | ℓ_{12} | ℓ_{13} | ℓ_{14} | ℓ_{15} | ℓ_{16} | ℓ_{17} | ℓ_{18} | ℓ_{19} | ℓ_{20} | 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 intersects | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|----------|----------|----------|----------|----------|----------|----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|
| Line ℓ_0 ℓ_1 | ℓ_3 | ℓ_4 | ℓ_5 | ℓ_6 | ℓ_7 | ℓ_8 | ℓ_9 | ℓ_{10} | ℓ_{11} | ℓ_{12} | ℓ_{13} | ℓ_{14} | ℓ_{15} | ℓ_{16} | ℓ_{17} | ℓ_{18} | ℓ_{19} | ℓ_{20} | ℓ_{21} | ℓ_{22} | Τ |
| 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 | |
| Line 3 intersects | | | | | | | | | | | | | | | | | | | | | |
| Line ℓ_0 ℓ_1 | ℓ_2 | ℓ_4 | ℓ_5 | ℓ_6 | ℓ_7 | ℓ_8 | ℓ_9 | ℓ_{10} | ℓ_{11} | ℓ_{12} | ℓ_{13} | ℓ_{14} | ℓ_{15} | ℓ_{16} | ℓ_{17} | ℓ_{18} | ℓ_{19} | ℓ_{20} | ℓ_{21} | ℓ_{22} | Γ |
| 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 | |
| Line 4 intersects | | | | | | | | | | | | | | | | | | | | | |
| 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} | 1 |
| 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 | L |
| Line 5 intersects | | | | | | | | | | | | | | | | | | | | | |
| 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} | \downarrow |
| 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 | |
| Line 6 intersects | | | | | | | | | | | | | | | | | | | | | |
| Line ℓ_0 ℓ_1 | ℓ_2 | ℓ_3 | ℓ_4 | ℓ_5 | ℓ_7 | ℓ_8 | ℓ_9 | ℓ_{10} | ℓ_{11} | ℓ_{12} | ℓ_{13} | ℓ_{14} | ℓ_{15} | ℓ_{16} | ℓ_{17} | ℓ_{18} | ℓ_{19} | ℓ_{20} | ℓ_{21} | ℓ_{22} | \perp |
| 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 | L |
| Line 7 intersects | | | | | | | | | | | | | | | | | | | | | |
| 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} | \perp |
| 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 | |
| Line 8 intersects | | | | | | | | | | | | | | | | | | | | | |
| Line ℓ_0 ℓ_1 | ℓ_2 | ℓ_3 | ℓ_4 | ℓ_5 | ℓ_6 | ℓ_7 | ℓ_9 | ℓ_{10} | ℓ_{11} | ℓ_{12} | ℓ_{13} | ℓ_{14} | ℓ_{15} | ℓ_{16} | ℓ_{17} | ℓ_{18} | ℓ_{19} | ℓ_{20} | ℓ_{21} | ℓ_{22} | 1 |
| 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 | |
| Line 9 intersects | | | | | | | | | | | | | | | | | | | | | _ |
| 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} | \perp |
| 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 | |
| Line 10 intersects | | | | | | | | | | | | | | | | | | | | | |
| Line ℓ_0 ℓ_1 | ℓ_2 | ℓ_3 | ℓ_4 | ℓ_5 | ℓ_6 | ℓ_7 | ℓ_8 | ℓ_9 | ℓ_{11} | ℓ_{12} | ℓ_{13} | ℓ_{14} | ℓ_{15} | ℓ_{16} | ℓ_{17} | ℓ_{18} | ℓ_{19} | ℓ_{20} | ℓ_{21} | ℓ_{22} | Ľ |
| in point $P_3 \mid P_3$ | P_3 | 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 |
| Line 11 intersects | | | | | | | | | | | | | | | | | | | | | |
| Line ℓ_0 ℓ_1 | ℓ_2 | ℓ_3 | ℓ_4 | ℓ_5 | ℓ_6 | ℓ_7 | ℓ_8 | ℓ_9 | ℓ_{10} | ℓ_{12} | ℓ_{13} | ℓ_{14} | ℓ_{15} | ℓ_{16} | ℓ_{17} | ℓ_{18} | ℓ_{19} | ℓ_{20} | ℓ_{21} | ℓ_{22} | Ŀ |
| 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 | L |
| Line 12 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_{13} | ℓ_{14} | ℓ_{15} | ℓ_{16} | ℓ_{17} | ℓ_{18} | ℓ_{19} | ℓ_{20} | ℓ_{21} | ℓ_{22} | Ŀ |
| 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 | L |
| Line 13 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_{14} | ℓ_{15} | ℓ_{16} | ℓ_{17} | ℓ_{18} | ℓ_{19} | ℓ_{20} | ℓ_{21} | ℓ_{22} | Ŀ |
| 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 | L |
| Line 14 intersects | | | | | | | | | | | | | | | | | | | | | |

 ℓ_9

 P_3

 ℓ_{10}

 P_3

 $\begin{array}{c|c} \ell_{11} & \ell_{12} \\ P_3 & P_3 \end{array}$

 ℓ_{13} P_3

 ℓ_{15} P_3

 ℓ_{16}

 P_3

 $\begin{array}{c|c} \ell_{17} \\ P_3 \end{array}$

 ℓ_{18} P_3

 ℓ_{20} P_3

 ℓ_{19}

 P_3

 ℓ_{21} P_3

 ℓ_{22} P_3

 ℓ_8 P_3

 ℓ_5 P_3

 $\begin{array}{c|c} \ell_6 & \ell_7 \\ P_3 & P_3 \end{array}$

 $\begin{array}{c|c} \ell_3 & \ell_4 \\ P_3 & P_3 \end{array}$

 $\begin{array}{c|c} \ell_1 & \ell_2 \\ P_3 & P_3 \end{array}$

Line

in point

| Line 15 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_{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 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 . |
| Line 16 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_{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 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 . |
| Line 17 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_{18} | ℓ_{19} | ℓ_{20} | ℓ_{21} | $\ell_{22} \mid \ell$ |
| 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 18 int | erse | 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_{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 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 . |
| Line 19 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_{20} | ℓ_{21} | $\ell_{22} \mid \ell$ |
| 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 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 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 . |
| Line 21 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_{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 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 | P_3 . |
| Line 22 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 23 int | erse | 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 24 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 25 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 26 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 27 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 28 int | erse | 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} | Τ |
| 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 | t |
| Line 29 int | erse | cts | | | | | | | | | | | | | | | | | | I | | | |
| 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 30 int | erse | 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 | L |
| Line 31 int | | | | | | | | | | | | | | | | | | | | | | | |
| Line | $\frac{\ell_0}{D}$ | 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} | Ŀ |
| 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 | L |
| Line 32 int | | | | | | | | | | | | | | | | | | | | | | | |
| Line | $\frac{\ell_0}{R}$ | 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} | Ļ |
| 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 | L |
| Line 33 int | | | | | | | | | | | | | | | | | | | | | | | |
| 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} | Ľ |
| 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 | L |
| Line 34 int | erse | 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} | 1 |
| 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 int | erse | 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} | Ľ |
| 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 int | erse | 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} | |
| 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 | L |
| Line 37 int | erse | 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} | |
| 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 | L |
| Line 38 int | erse | 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} | ļ. |
| 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 | L |
| Line 39 int | erse | 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} | |
| 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 | L |
| Line 40 int | | | | | | | | | | | | | | | | | | | | | | La | _ |
| 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 |

The surface has 1313 points:

in point P_3 P_3

Too many to print.

 P_3 P_3 P_3

 P_3

 P_3

 P_3

 P_3