Rank-74276 over GF(32)

January 15, 2021

The equation

The equation of the surface is :

$$X_0^3 + X_0^2X_2 + X_1^2X_3 + X_0X_3^2 + X_0X_1X_2 = 0$$

(1, 0, 0, 0, 0, 1, 0, 0, 0, 1, 0, 0, 0, 1, 0, 0, 1, 0, 0, 0)
The point rank of the equation over GF(32) is 1141933094

General information

Number of lines	2
Number of points	1057
Number of singular points	1
Number of Eckardt points	0
Number of double points	1
Number of single points	64
Number of points off lines	992
Number of Hesse planes	0
Number of axes	0
Type of points on lines	33^2
Type of lines on points	$2, 1^{64}, 0^{992}$

Singular Points

The surface has 1 singular points:

$0 : \ P_2 = \mathbf{P}(0,0,1,0) = \mathbf{P}(0,0,1,0)$

The 2 Lines

The lines and their Pluecker coordinates are:

$$\ell_0 = \left[\begin{array}{cccc} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \end{array}\right]_{1082368} = \left[\begin{array}{cccc} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \end{array}\right]_{1082368} = \mathbf{Pl}(0,0,0,0,0,1)_{34849}$$

$$\ell_1 = \left[\begin{array}{cccc} 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1083424} = \left[\begin{array}{cccc} 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1083424} = \mathbf{Pl}(0,1,0,0,0,0)_1$$

Rank of lines: (1082368, 1083424)
Rank of points on Klein quadric: (34849, 1)

Eckardt Points

The surface has 0 Eckardt points:

Double Points

The surface has 1 Double points:
The double points on the surface are:

$P_2 = (0,0,1,0) = \ell_0 \cap \ell_1$

Single Points

The surface has 64 single points:
The single points on the surface are:

0 : $P_1 = (0,1,0,0)$ lies on line ℓ_0
1 : $P_3 = (0,0,0,1)$ lies on line ℓ_1
2 : $P_{67} = (0,1,1,0)$ lies on line ℓ_0
3 : $P_{99} = (0,2,1,0)$ lies on line ℓ_0
4 : $P_{131} = (0,3,1,0)$ lies on line ℓ_0
5 : $P_{163} = (0,4,1,0)$ lies on line ℓ_0
6 : $P_{195} = (0,5,1,0)$ lies on line ℓ_0
7 : $P_{227} = (0,6,1,0)$ lies on line ℓ_0
8 : $P_{259} = (0,7,1,0)$ lies on line ℓ_0
9 : $P_{291} = (0,8,1,0)$ lies on line ℓ_0
10 : $P_{323} = (0,9,1,0)$ lies on line ℓ_0
11 : $P_{355} = (0,10,1,0)$ lies on line ℓ_0
12 : $P_{387} = (0,11,1,0)$ lies on line ℓ_0
13 : $P_{419} = (0,12,1,0)$ lies on line ℓ_0
14 : $P_{451} = (0,13,1,0)$ lies on line ℓ_0
15 : $P_{483} = (0,14,1,0)$ lies on line ℓ_0
16 : $P_{515} = (0,15,1,0)$ lies on line ℓ_0
17 : $P_{547} = (0,16,1,0)$ lies on line ℓ_0
18 : $P_{579} = (0,17,1,0)$ lies on line ℓ_0
19 : $P_{611} = (0,18,1,0)$ lies on line ℓ_0
20 : $P_{643} = (0,19,1,0)$ lies on line ℓ_0
21 : $P_{675} = (0,20,1,0)$ lies on line ℓ_0
22 : $P_{707} = (0,21,1,0)$ lies on line ℓ_0
23 : $P_{739} = (0,22,1,0)$ lies on line ℓ_0
24 : $P_{771} = (0,23,1,0)$ lies on line ℓ_0
25 : $P_{803} = (0,24,1,0)$ lies on line ℓ_0
26 : $P_{835} = (0,25,1,0)$ lies on line ℓ_0
27 : $P_{867} = (0,26,1,0)$ lies on line ℓ_0
28 : $P_{899} = (0,27,1,0)$ lies on line ℓ_0
29 : $P_{931} = (0,28,1,0)$ lies on line ℓ_0
30 : $P_{963} = (0,29,1,0)$ lies on line ℓ_0
31 : $P_{995} = (0,30,1,0)$ lies on line ℓ_0
32 : $P_{1027} = (0,31,1,0)$ lies on line ℓ_0
33 : $P_{2082} = (0,0,1,1)$ lies on line ℓ_1
34 : $P_{3105} = (0,0,2,1)$ lies on line ℓ_1
35 : $P_{4129} = (0,0,3,1)$ lies on line ℓ_1
36 : $P_{5153} = (0,0,4,1)$ lies on line ℓ_1
37 : $P_{6177} = (0,0,5,1)$ lies on line ℓ_1
38 : $P_{7201} = (0,0,6,1)$ lies on line ℓ_1
39 : $P_{8225} = (0,0,7,1)$ lies on line ℓ_1
40 : $P_{9249} = (0,0,8,1)$ lies on line ℓ_1
41 : $P_{10273} = (0,0,9,1)$ lies on line ℓ_1
42 : $P_{11297} = (0,0,10,1)$ lies on line ℓ_1
43 : $P_{12321} = (0,0,11,1)$ lies on line ℓ_1
44 : $P_{13345} = (0,0,12,1)$ lies on line ℓ_1
45 : $P_{14369} = (0,0,13,1)$ lies on line ℓ_1
46 : $P_{15393} = (0,0,14,1)$ lies on line ℓ_1
47 : $P_{16417} = (0,0,15,1)$ lies on line ℓ_1
48 : $P_{17441} = (0,0,16,1)$ lies on line ℓ_1
49 : $P_{18465} = (0,0,17,1)$ lies on line ℓ_1
50 : $P_{19489} = (0,0,18,1)$ lies on line ℓ_1
51 : $P_{20513} = (0,0,19,1)$ lies on line ℓ_1
52 : $P_{21537} = (0,0,20,1)$ lies on line ℓ_1
53 : $P_{22561} = (0,0,21,1)$ lies on line ℓ_1
54 : $P_{23585} = (0,0,22,1)$ lies on line ℓ_1
55 : $P_{24609} = (0,0,23,1)$ lies on line ℓ_1
56 : $P_{25633} = (0,0,24,1)$ lies on line ℓ_1
57 : $P_{26657} = (0,0,25,1)$ lies on line ℓ_1

58 : $P_{27681} = (0, 0, 26, 1)$ lies on line ℓ_1
59 : $P_{28705} = (0, 0, 27, 1)$ lies on line ℓ_1
60 : $P_{29729} = (0, 0, 28, 1)$ lies on line ℓ_1
61 : $P_{30753} = (0, 0, 29, 1)$ lies on line ℓ_1
62 : $P_{31777} = (0, 0, 30, 1)$ lies on line ℓ_1
63 : $P_{32801} = (0, 0, 31, 1)$ lies on line ℓ_1

The single points on the surface are:

Points on surface but on no line

The surface has 992 points not on any line:
The points on the surface but not on lines are:

0 : $P_{36} = (1, 0, 1, 0)$
1 : $P_{107} = (8, 2, 1, 0)$
2 : $P_{108} = (9, 2, 1, 0)$
3 : $P_{173} = (10, 4, 1, 0)$
4 : $P_{174} = (11, 4, 1, 0)$
5 : $P_{229} = (2, 6, 1, 0)$
6 : $P_{230} = (3, 6, 1, 0)$
7 : $P_{343} = (20, 9, 1, 0)$
8 : $P_{344} = (21, 9, 1, 0)$
9 : $P_{415} = (28, 11, 1, 0)$
10 : $P_{416} = (29, 11, 1, 0)$
11 : $P_{481} = (30, 13, 1, 0)$
12 : $P_{482} = (31, 13, 1, 0)$
13 : $P_{537} = (22, 15, 1, 0)$
14 : $P_{538} = (23, 15, 1, 0)$
15 : $P_{561} = (14, 16, 1, 0)$
16 : $P_{562} = (15, 16, 1, 0)$
17 : $P_{617} = (6, 18, 1, 0)$
18 : $P_{618} = (7, 18, 1, 0)$
19 : $P_{679} = (4, 20, 1, 0)$
20 : $P_{680} = (5, 20, 1, 0)$
21 : $P_{751} = (12, 22, 1, 0)$
22 : $P_{752} = (13, 22, 1, 0)$
23 : $P_{861} = (26, 25, 1, 0)$
24 : $P_{862} = (27, 25, 1, 0)$
25 : $P_{917} = (18, 27, 1, 0)$
26 : $P_{918} = (19, 27, 1, 0)$
27 : $P_{979} = (16, 29, 1, 0)$
28 : $P_{980} = (17, 29, 1, 0)$
29 : $P_{1051} = (24, 31, 1, 0)$
30 : $P_{1052} = (25, 31, 1, 0)$
31 : $P_{1059} = (1, 0, 0, 1)$
32 : $P_{1140} = (18, 2, 0, 1)$
33 : $P_{1166} = (12, 3, 0, 1)$
34 : $P_{1175} = (21, 3, 0, 1)$
35 : $P_{1179} = (25, 3, 0, 1)$
36 : $P_{1195} = (9, 4, 0, 1)$
37 : $P_{1224} = (6, 5, 0, 1)$
38 : $P_{1244} = (26, 5, 0, 1)$
39 : $P_{1246} = (28, 5, 0, 1)$
40 : $P_{1316} = (2, 8, 0, 1)$
41 : $P_{1360} = (14, 9, 0, 1)$
42 : $P_{1382} = (4, 10, 0, 1)$
43 : $P_{1440} = (30, 11, 0, 1)$
44 : $P_{1447} = (5, 12, 0, 1)$
45 : $P_{1466} = (24, 12, 0, 1)$
46 : $P_{1471} = (29, 12, 0, 1)$
47 : $P_{1489} = (15, 13, 0, 1)$
48 : $P_{1522} = (16, 14, 0, 1)$
49 : $P_{1557} = (19, 15, 0, 1)$
50 : $P_{1581} = (11, 16, 0, 1)$
51 : $P_{1605} = (3, 17, 0, 1)$
52 : $P_{1622} = (20, 17, 0, 1)$
53 : $P_{1625} = (23, 17, 0, 1)$
54 : $P_{1644} = (10, 18, 0, 1)$
55 : $P_{1693} = (27, 19, 0, 1)$
56 : $P_{1897} = (7, 26, 0, 1)$
57 : $P_{1907} = (17, 26, 0, 1)$
58 : $P_{1912} = (22, 26, 0, 1)$
59 : $P_{1953} = (31, 27, 0, 1)$
60 : $P_{2031} = (13, 30, 0, 1)$
61 : $P_{2058} = (8, 31, 0, 1)$
62 : $P_{2199} = (22, 3, 1, 1)$
63 : $P_{2266} = (25, 5, 1, 1)$
64 : $P_{2287} = (14, 6, 1, 1)$
65 : $P_{2334} = (29, 7, 1, 1)$
66 : $P_{2351} = (14, 8, 1, 1)$
67 : $P_{2431} = (30, 10, 1, 1)$
68 : $P_{2485} = (20, 12, 1, 1)$
69 : $P_{2548} = (19, 14, 1, 1)$
70 : $P_{2631} = (6, 17, 1, 1)$
71 : $P_{2699} = (10, 19, 1, 1)$
72 : $P_{2751} = (30, 20, 1, 1)$
73 : $P_{2775} = (22, 21, 1, 1)$
74 : $P_{2793} = (8, 22, 1, 1)$
75 : $P_{2823} = (6, 23, 1, 1)$
76 : $P_{2869} = (20, 24, 1, 1)$
77 : $P_{2891} = (10, 25, 1, 1)$
78 : $P_{2942} = (29, 26, 1, 1)$
79 : $P_{3002} = (25, 28, 1, 1)$

$80: P_{3028} = (19, 29, 1, 1)$
$81: P_{3049} = (8, 30, 1, 1)$
$82: P_{3118} = (13, 0, 2, 1)$
$83: P_{3120} = (15, 0, 2, 1)$
$84: P_{3147} = (10, 1, 2, 1)$
$85: P_{3153} = (16, 1, 2, 1)$
$86: P_{3161} = (24, 1, 2, 1)$
$87: P_{3175} = (6, 2, 2, 1)$
$88: P_{3238} = (5, 4, 2, 1)$
$89: P_{3249} = (16, 4, 2, 1)$
$90: P_{3256} = (23, 4, 2, 1)$
$91: P_{3279} = (14, 5, 2, 1)$
$92: P_{3322} = (25, 6, 2, 1)$
$93: P_{3349} = (20, 7, 2, 1)$
$94: P_{3373} = (12, 8, 2, 1)$
$95: P_{3445} = (20, 10, 2, 1)$
$96: P_{3474} = (17, 11, 2, 1)$
$97: P_{3490} = (1, 12, 2, 1)$
$98: P_{3506} = (17, 12, 2, 1)$
$99: P_{3507} = (18, 12, 2, 1)$
$100: P_{3539} = (18, 13, 2, 1)$
$101: P_{3554} = (1, 14, 2, 1)$
$102: P_{3558} = (5, 14, 2, 1)$
$103: P_{3559} = (6, 14, 2, 1)$
$104: P_{3596} = (11, 15, 2, 1)$
$105: P_{3608} = (23, 15, 2, 1)$
$106: P_{3615} = (30, 15, 2, 1)$
$107: P_{3629} = (12, 16, 2, 1)$
$108: P_{3651} = (2, 17, 2, 1)$
$109: P_{3674} = (25, 17, 2, 1)$
$110: P_{3769} = (24, 20, 2, 1)$
$111: P_{3779} = (2, 21, 2, 1)$
$112: P_{3787} = (10, 21, 2, 1)$
$113: P_{3839} = (30, 22, 2, 1)$
$114: P_{3848} = (7, 23, 2, 1)$
$115: P_{3912} = (7, 25, 2, 1)$
$116: P_{3916} = (11, 25, 2, 1)$
$117: P_{3919} = (14, 25, 2, 1)$
$118: P_{3950} = (13, 26, 2, 1)$
$119: P_{4080} = (15, 30, 2, 1)$
$120: P_{4172} = (11, 1, 3, 1)$
$121: P_{4178} = (17, 1, 3, 1)$
$122: P_{4186} = (25, 1, 3, 1)$
$123: P_{4234} = (9, 3, 3, 1)$
$124: P_{4296} = (7, 5, 3, 1)$
$125: P_{4377} = (24, 7, 3, 1)$
$126: P_{4406} = (21, 8, 3, 1)$
$127: P_{4420} = (3, 9, 3, 1)$
$128: P_{4429} = (12, 9, 3, 1)$
$129: P_{4473} = (24, 10, 3, 1)$
$130: P_{4516} = (3, 12, 3, 1)$
$131: P_{4520} = (7, 12, 3, 1)$
$132: P_{4561} = (16, 13, 3, 1)$
$133: P_{4587} = (10, 14, 3, 1)$
$134: P_{4634} = (25, 15, 3, 1)$
$135: P_{4651} = (10, 16, 3, 1)$
$136: P_{4726} = (21, 18, 3, 1)$
$137: P_{4763} = (26, 19, 3, 1)$
$138: P_{4805} = (4, 21, 3, 1)$
$139: P_{4882} = (17, 23, 3, 1)$
$140: P_{4906} = (9, 24, 3, 1)$
$141: P_{4913} = (16, 24, 3, 1)$
$142: P_{4923} = (26, 24, 3, 1)$
$143: P_{4933} = (4, 25, 3, 1)$
$144: P_{5036} = (11, 28, 3, 1)$
$145: P_{5069} = (12, 29, 3, 1)$
$146: P_{5117} = (28, 30, 3, 1)$
$147: P_{5149} = (28, 31, 3, 1)$
$148: P_{5180} = (27, 0, 4, 1)$
$149: P_{5184} = (31, 0, 4, 1)$
$150: P_{5192} = (7, 1, 4, 1)$
$151: P_{5198} = (13, 1, 4, 1)$
$152: P_{5199} = (14, 1, 4, 1)$
$153: P_{5276} = (27, 3, 4, 1)$
$154: P_{5301} = (20, 4, 4, 1)$
$155: P_{5360} = (15, 6, 4, 1)$
$156: P_{5366} = (21, 6, 4, 1)$
$157: P_{5375} = (30, 6, 4, 1)$
$158: P_{5499} = (26, 10, 4, 1)$
$159: P_{5541} = (4, 12, 4, 1)$
$160: P_{5543} = (6, 12, 4, 1)$
$161: P_{5595} = (26, 13, 4, 1)$
$162: P_{5630} = (29, 14, 4, 1)$
$163: P_{5645} = (12, 15, 4, 1)$
$164: P_{5678} = (13, 16, 4, 1)$
$165: P_{5682} = (17, 16, 4, 1)$
$166: P_{5689} = (24, 16, 4, 1)$
$167: P_{5727} = (30, 17, 4, 1)$
$168: P_{5792} = (31, 19, 4, 1)$
$169: P_{5799} = (6, 20, 4, 1)$
$170: P_{5854} = (29, 21, 4, 1)$
$171: P_{5942} = (21, 24, 4, 1)$
$172: P_{5972} = (19, 25, 4, 1)$
$173: P_{5986} = (1, 26, 4, 1)$
$174: P_{5994} = (9, 26, 4, 1)$
$175: P_{5997} = (12, 26, 4, 1)$
$176: P_{6026} = (9, 27, 4, 1)$
$177: P_{6053} = (4, 28, 4, 1)$
$178: P_{6063} = (14, 28, 4, 1)$
$179: P_{6088} = (7, 29, 4, 1)$
$180: P_{6114} = (1, 30, 4, 1)$
$181: P_{6130} = (17, 30, 4, 1)$
$182: P_{6133} = (20, 30, 4, 1)$
$183: P_{6160} = (15, 31, 4, 1)$
$184: P_{6164} = (19, 31, 4, 1)$
$185: P_{6169} = (24, 31, 4, 1)$
$186: P_{6215} = (6, 1, 5, 1)$
$187: P_{6221} = (12, 1, 5, 1)$

188 : $P_{6224} = (15, 1, 5, 1)$
189 : $P_{6348} = (11, 5, 5, 1)$
190 : $P_{6385} = (16, 6, 5, 1)$
191 : $P_{6404} = (3, 7, 5, 1)$
192 : $P_{6412} = (11, 7, 5, 1)$
193 : $P_{6414} = (13, 7, 5, 1)$
194 : $P_{6436} = (3, 8, 5, 1)$
195 : $P_{6493} = (28, 9, 5, 1)$
196 : $P_{6525} = (28, 10, 5, 1)$
197 : $P_{6534} = (5, 11, 5, 1)$
198 : $P_{6555} = (26, 11, 5, 1)$
199 : $P_{6607} = (14, 13, 5, 1)$
200 : $P_{6632} = (7, 14, 5, 1)$
201 : $P_{6742} = (21, 17, 5, 1)$
202 : $P_{6776} = (23, 18, 5, 1)$
203 : $P_{6808} = (23, 19, 5, 1)$
204 : $P_{6856} = (7, 21, 5, 1)$
205 : $P_{6907} = (26, 22, 5, 1)$
206 : $P_{6928} = (15, 23, 5, 1)$
207 : $P_{6957} = (12, 24, 5, 1)$
208 : $P_{7014} = (5, 26, 5, 1)$
209 : $P_{7030} = (21, 26, 5, 1)$
210 : $P_{7054} = (13, 27, 5, 1)$
211 : $P_{7089} = (16, 28, 5, 1)$
212 : $P_{7151} = (14, 30, 5, 1)$
213 : $P_{7175} = (6, 31, 5, 1)$
214 : $P_{7273} = (8, 2, 6, 1)$
215 : $P_{7316} = (19, 3, 6, 1)$
216 : $P_{7336} = (7, 4, 6, 1)$
217 : $P_{7403} = (10, 6, 6, 1)$
218 : $P_{7412} = (19, 6, 6, 1)$
219 : $P_{7424} = (31, 6, 6, 1)$
220 : $P_{7437} = (12, 7, 6, 1)$
221 : $P_{7482} = (25, 8, 6, 1)$
222 : $P_{7533} = (12, 10, 6, 1)$
223 : $P_{7596} = (11, 12, 6, 1)$
224 : $P_{7607} = (22, 12, 6, 1)$
225 : $P_{7612} = (27, 12, 6, 1)$
226 : $P_{7641} = (24, 13, 6, 1)$
227 : $P_{7680} = (31, 14, 6, 1)$
228 : $P_{7820} = (11, 19, 6, 1)$
229 : $P_{7866} = (25, 20, 6, 1)$
230 : $P_{7912} = (7, 22, 6, 1)$
231 : $P_{7921} = (16, 22, 6, 1)$
232 : $P_{7922} = (17, 22, 6, 1)$
233 : $P_{7945} = (8, 23, 6, 1)$
234 : $P_{7959} = (22, 23, 6, 1)$
235 : $P_{7961} = (24, 23, 6, 1)$
236 : $P_{8017} = (16, 25, 6, 1)$
237 : $P_{8094} = (29, 27, 6, 1)$
238 : $P_{8124} = (27, 28, 6, 1)$
239 : $P_{8203} = (10, 31, 6, 1)$
240 : $P_{8210} = (17, 31, 6, 1)$
241 : $P_{8222} = (29, 31, 6, 1)$
242 : $P_{8359} = (6, 4, 7, 1)$
243 : $P_{8371} = (18, 4, 7, 1)$
244 : $P_{8372} = (19, 4, 7, 1)$
245 : $P_{8485} = (4, 8, 7, 1)$
246 : $P_{8490} = (9, 8, 7, 1)$
247 : $P_{8491} = (10, 8, 7, 1)$
248 : $P_{8520} = (7, 9, 7, 1)$
249 : $P_{8526} = (13, 9, 7, 1)$
250 : $P_{8606} = (29, 11, 7, 1)$
251 : $P_{8672} = (31, 13, 7, 1)$
252 : $P_{8701} = (28, 14, 7, 1)$
253 : $P_{8718} = (13, 15, 7, 1)$
254 : $P_{8739} = (2, 16, 7, 1)$
255 : $P_{8762} = (25, 16, 7, 1)$
256 : $P_{8765} = (28, 16, 7, 1)$
257 : $P_{8796} = (27, 17, 7, 1)$
258 : $P_{8810} = (9, 18, 7, 1)$
259 : $P_{8820} = (19, 18, 7, 1)$
260 : $P_{8830} = (29, 18, 7, 1)$
261 : $P_{8836} = (3, 19, 7, 1)$
262 : $P_{8869} = (4, 20, 7, 1)$
263 : $P_{8877} = (12, 20, 7, 1)$
264 : $P_{8880} = (15, 20, 7, 1)$
265 : $P_{8909} = (12, 21, 7, 1)$
266 : $P_{8915} = (18, 21, 7, 1)$
267 : $P_{8922} = (25, 21, 7, 1)$
268 : $P_{8935} = (6, 22, 7, 1)$
269 : $P_{8975} = (14, 23, 7, 1)$
270 : $P_{9007} = (14, 24, 7, 1)$
271 : $P_{9060} = (3, 26, 7, 1)$
272 : $P_{9084} = (27, 26, 7, 1)$
273 : $P_{9088} = (31, 26, 7, 1)$
274 : $P_{9099} = (10, 27, 7, 1)$
275 : $P_{9128} = (7, 28, 7, 1)$
276 : $P_{9136} = (15, 28, 7, 1)$
277 : $P_{9187} = (2, 30, 7, 1)$
278 : $P_{9255} = (6, 0, 8, 1)$
279 : $P_{9263} = (14, 0, 8, 1)$
280 : $P_{9401} = (24, 4, 8, 1)$
281 : $P_{9474} = (1, 7, 8, 1)$
282 : $P_{9539} = (2, 9, 8, 1)$
283 : $P_{9554} = (17, 9, 8, 1)$
284 : $P_{9564} = (27, 9, 8, 1)$
285 : $P_{9619} = (18, 11, 8, 1)$
286 : $P_{9642} = (9, 12, 8, 1)$
287 : $P_{9706} = (9, 14, 8, 1)$
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694 : $P_{24103} = (6, 16, 22, 1)$
695 : $P_{24198} = (5, 19, 22, 1)$
696 : $P_{24227} = (2, 20, 22, 1)$
697 : $P_{24228} = (3, 20, 22, 1)$
698 : $P_{24248} = (23, 20, 22, 1)$
699 : $P_{24277} = (20, 21, 22, 1)$
700 : $P_{24285} = (28, 21, 22, 1)$
701 : $P_{24287} = (30, 21, 22, 1)$
702 : $P_{24300} = (11, 22, 22, 1)$
703 : $P_{24303} = (14, 22, 22, 1)$
704 : $P_{24308} = (19, 22, 22, 1)$
705 : $P_{24326} = (5, 23, 22, 1)$
706 : $P_{24414} = (29, 25, 22, 1)$
707 : $P_{24472} = (23, 27, 22, 1)$
708 : $P_{24515} = (2, 29, 22, 1)$
709 : $P_{24574} = (29, 30, 22, 1)$
710 : $P_{24680} = (7, 2, 23, 1)$
711 : $P_{24686} = (13, 2, 23, 1)$
712 : $P_{24702} = (29, 2, 23, 1)$
713 : $P_{24721} = (16, 3, 23, 1)$
714 : $P_{24748} = (11, 4, 23, 1)$
715 : $P_{24842} = (9, 7, 23, 1)$
716 : $P_{24856} = (23, 7, 23, 1)$
717 : $P_{24872} = (7, 8, 23, 1)$
718 : $P_{24901} = (4, 9, 23, 1)$
719 : $P_{24942} = (13, 10, 23, 1)$
720 : $P_{25069} = (12, 14, 23, 1)$
721 : $P_{25095} = (6, 15, 23, 1)$
722 : $P_{25103} = (14, 15, 23, 1)$
723 : $P_{25120} = (31, 15, 23, 1)$
724 : $P_{25140} = (19, 16, 23, 1)$
725 : $P_{25164} = (11, 17, 23, 1)$
726 : $P_{25165} = (12, 17, 23, 1)$
727 : $P_{25169} = (16, 17, 23, 1)$

728 : $P_{25191} = (6, 18, 23, 1)$
729 : $P_{25271} = (22, 20, 23, 1)$
730 : $P_{25289} = (8, 21, 23, 1)$
731 : $P_{25382} = (5, 24, 23, 1)$
732 : $P_{25392} = (15, 24, 23, 1)$
733 : $P_{25406} = (29, 24, 23, 1)$
734 : $P_{25414} = (5, 25, 23, 1)$
735 : $P_{25418} = (9, 25, 23, 1)$
736 : $P_{25436} = (27, 25, 23, 1)$
737 : $P_{25487} = (14, 27, 23, 1)$
738 : $P_{25488} = (15, 27, 23, 1)$
739 : $P_{25495} = (22, 27, 23, 1)$
740 : $P_{25513} = (8, 28, 23, 1)$
741 : $P_{25588} = (19, 30, 23, 1)$
742 : $P_{25596} = (27, 30, 23, 1)$
743 : $P_{25600} = (31, 30, 23, 1)$
744 : $P_{25605} = (4, 31, 23, 1)$
745 : $P_{25624} = (23, 31, 23, 1)$
746 : $P_{25722} = (25, 2, 24, 1)$
747 : $P_{25727} = (30, 2, 24, 1)$
748 : $P_{25728} = (31, 2, 24, 1)$
749 : $P_{25782} = (21, 4, 24, 1)$
750 : $P_{25783} = (22, 4, 24, 1)$
751 : $P_{25788} = (27, 4, 24, 1)$
752 : $P_{25806} = (13, 5, 24, 1)$
753 : $P_{25827} = (2, 6, 24, 1)$
754 : $P_{25836} = (11, 6, 24, 1)$
755 : $P_{25842} = (17, 6, 24, 1)$
756 : $P_{25874} = (17, 7, 24, 1)$
757 : $P_{25879} = (22, 7, 24, 1)$
758 : $P_{25888} = (31, 7, 24, 1)$
759 : $P_{25941} = (20, 9, 24, 1)$
760 : $P_{25974} = (21, 10, 24, 1)$
761 : $P_{26001} = (16, 11, 24, 1)$
762 : $P_{26030} = (13, 12, 24, 1)$
763 : $P_{26032} = (15, 12, 24, 1)$
764 : $P_{26043} = (26, 12, 24, 1)$
765 : $P_{26057} = (8, 13, 24, 1)$
766 : $P_{26108} = (27, 14, 24, 1)$
767 : $P_{26160} = (15, 16, 24, 1)$
768 : $P_{26225} = (16, 18, 24, 1)$
769 : $P_{26233} = (24, 18, 24, 1)$
770 : $P_{26243} = (2, 19, 24, 1)$
771 : $P_{26249} = (8, 19, 24, 1)$
772 : $P_{26259} = (18, 19, 24, 1)$
773 : $P_{26316} = (11, 21, 24, 1)$
774 : $P_{26329} = (24, 21, 24, 1)$
775 : $P_{26379} = (10, 23, 24, 1)$
776 : $P_{26539} = (10, 28, 24, 1)$
777 : $P_{26586} = (25, 29, 24, 1)$
778 : $P_{26619} = (26, 30, 24, 1)$
779 : $P_{26643} = (18, 31, 24, 1)$
780 : $P_{26645} = (20, 31, 24, 1)$
781 : $P_{26655} = (30, 31, 24, 1)$
782 : $P_{26745} = (24, 2, 25, 1)$
783 : $P_{26871} = (22, 6, 25, 1)$
784 : $P_{26930} = (17, 8, 25, 1)$
785 : $P_{26992} = (15, 10, 25, 1)$
786 : $P_{27093} = (20, 13, 25, 1)$
787 : $P_{27142} = (5, 15, 25, 1)$
788 : $P_{27145} = (8, 15, 25, 1)$
789 : $P_{27157} = (20, 15, 25, 1)$
790 : $P_{27192} = (23, 16, 25, 1)$
791 : $P_{27210} = (9, 17, 25, 1)$
792 : $P_{27214} = (13, 17, 25, 1)$
793 : $P_{27230} = (29, 17, 25, 1)$
794 : $P_{27287} = (22, 19, 25, 1)$
795 : $P_{27342} = (13, 21, 25, 1)$
796 : $P_{27365} = (4, 22, 25, 1)$
797 : $P_{27442} = (17, 24, 25, 1)$
798 : $P_{27465} = (8, 25, 25, 1)$
799 : $P_{27472} = (15, 25, 25, 1)$
800 : $P_{27487} = (30, 25, 25, 1)$
801 : $P_{27519} = (30, 26, 25, 1)$
802 : $P_{27540} = (19, 27, 25, 1)$
803 : $P_{27572} = (19, 28, 25, 1)$
804 : $P_{27576} = (23, 28, 25, 1)$
805 : $P_{27582} = (29, 28, 25, 1)$
806 : $P_{27589} = (4, 29, 25, 1)$
807 : $P_{27590} = (5, 29, 25, 1)$
808 : $P_{27609} = (24, 29, 25, 1)$
809 : $P_{27626} = (9, 30, 25, 1)$
810 : $P_{27718} = (5, 1, 26, 1)$
811 : $P_{27722} = (9, 1, 26, 1)$
812 : $P_{27735} = (22, 1, 26, 1)$
813 : $P_{27801} = (24, 3, 26, 1)$
814 : $P_{27817} = (8, 4, 26, 1)$
815 : $P_{27907} = (2, 7, 26, 1)$
816 : $P_{27960} = (23, 8, 26, 1)$
817 : $P_{28009} = (8, 10, 26, 1)$
818 : $P_{28055} = (22, 11, 26, 1)$
819 : $P_{28150} = (21, 14, 26, 1)$
820 : $P_{28182} = (21, 15, 26, 1)$
821 : $P_{28197} = (4, 16, 26, 1)$
822 : $P_{28249} = (24, 17, 26, 1)$
823 : $P_{28251} = (26, 17, 26, 1)$
824 : $P_{28274} = (17, 18, 26, 1)$
825 : $P_{28283} = (26, 18, 26, 1)$
826 : $P_{28296} = (7, 19, 26, 1)$
827 : $P_{28338} = (17, 20, 26, 1)$
828 : $P_{28362} = (9, 21, 26, 1)$
829 : $P_{28387} = (2, 22, 26, 1)$
830 : $P_{28421} = (4, 23, 26, 1)$
831 : $P_{28429} = (12, 23, 26, 1)$
832 : $P_{28435} = (18, 23, 26, 1)$
833 : $P_{28472} = (23, 24, 26, 1)$
834 : $P_{28531} = (18, 26, 26, 1)$
835 : $P_{28582} = (5, 28, 26, 1)$

836 : $P_{28653} = (12, 30, 26, 1)$
837 : $P_{28680} = (7, 31, 26, 1)$
838 : $P_{28716} = (11, 0, 27, 1)$
839 : $P_{28721} = (16, 0, 27, 1)$
840 : $P_{28741} = (4, 1, 27, 1)$
841 : $P_{28745} = (8, 1, 27, 1)$
842 : $P_{28760} = (23, 1, 27, 1)$
843 : $P_{28772} = (3, 2, 27, 1)$
844 : $P_{28773} = (4, 2, 27, 1)$
845 : $P_{28797} = (28, 2, 27, 1)$
846 : $P_{28811} = (10, 3, 27, 1)$
847 : $P_{28850} = (17, 4, 27, 1)$
848 : $P_{28887} = (22, 5, 27, 1)$
849 : $P_{28892} = (27, 5, 27, 1)$
850 : $P_{28920} = (23, 6, 27, 1)$
851 : $P_{28937} = (8, 7, 27, 1)$
852 : $P_{28956} = (27, 7, 27, 1)$
853 : $P_{28967} = (6, 8, 27, 1)$
854 : $P_{28998} = (5, 9, 27, 1)$
855 : $P_{29026} = (1, 10, 27, 1)$
856 : $P_{29028} = (3, 10, 27, 1)$
857 : $P_{29050} = (25, 10, 27, 1)$
858 : $P_{29066} = (9, 11, 27, 1)$
859 : $P_{29071} = (14, 11, 27, 1)$
860 : $P_{29085} = (28, 11, 27, 1)$
861 : $P_{29105} = (16, 12, 27, 1)$
862 : $P_{29164} = (11, 14, 27, 1)$
863 : $P_{29248} = (31, 16, 27, 1)$
864 : $P_{29250} = (1, 17, 27, 1)$
865 : $P_{29254} = (5, 17, 27, 1)$
866 : $P_{29280} = (31, 17, 27, 1)$
867 : $P_{29330} = (17, 19, 27, 1)$
868 : $P_{29418} = (9, 22, 27, 1)$
869 : $P_{29419} = (10, 22, 27, 1)$
870 : $P_{29433} = (24, 22, 27, 1)$
871 : $P_{29479} = (6, 24, 27, 1)$
872 : $P_{29527} = (22, 25, 27, 1)$
873 : $P_{29594} = (25, 27, 27, 1)$
874 : $P_{29625} = (24, 28, 27, 1)$
875 : $P_{29647} = (14, 29, 27, 1)$
876 : $P_{29802} = (9, 2, 28, 1)$
877 : $P_{29887} = (30, 4, 28, 1)$
878 : $P_{29893} = (4, 5, 28, 1)$
879 : $P_{29898} = (9, 5, 28, 1)$
880 : $P_{29906} = (17, 5, 28, 1)$
881 : $P_{29950} = (29, 6, 28, 1)$
882 : $P_{29972} = (19, 7, 28, 1)$
883 : $P_{30001} = (16, 8, 28, 1)$
884 : $P_{30066} = (17, 10, 28, 1)$
885 : $P_{30091} = (10, 11, 28, 1)$
886 : $P_{30096} = (15, 11, 28, 1)$
887 : $P_{30106} = (25, 11, 28, 1)$
888 : $P_{30155} = (10, 13, 28, 1)$
889 : $P_{30156} = (11, 13, 28, 1)$
890 : $P_{30174} = (29, 13, 28, 1)$
891 : $P_{30190} = (13, 14, 28, 1)$
892 : $P_{30192} = (15, 14, 28, 1)$
893 : $P_{30207} = (30, 14, 28, 1)$
894 : $P_{30211} = (2, 15, 28, 1)$
895 : $P_{30237} = (28, 15, 28, 1)$
896 : $P_{30307} = (2, 18, 28, 1)$
897 : $P_{30361} = (24, 19, 28, 1)$
898 : $P_{30420} = (19, 21, 28, 1)$
899 : $P_{30436} = (3, 22, 28, 1)$
900 : $P_{30446} = (13, 22, 28, 1)$
901 : $P_{30451} = (18, 22, 28, 1)$
902 : $P_{30468} = (3, 23, 28, 1)$
903 : $P_{30476} = (11, 23, 28, 1)$
904 : $P_{30485} = (20, 23, 28, 1)$
905 : $P_{30515} = (18, 24, 28, 1)$
906 : $P_{30525} = (28, 24, 28, 1)$
907 : $P_{30565} = (4, 26, 28, 1)$
908 : $P_{30609} = (16, 27, 28, 1)$
909 : $P_{30613} = (20, 27, 28, 1)$
910 : $P_{30617} = (24, 27, 28, 1)$
911 : $P_{30746} = (25, 31, 28, 1)$
912 : $P_{30838} = (21, 2, 29, 1)$
913 : $P_{30853} = (4, 3, 29, 1)$
914 : $P_{30855} = (6, 3, 29, 1)$
915 : $P_{30880} = (31, 3, 29, 1)$
916 : $P_{30906} = (25, 4, 29, 1)$
917 : $P_{30971} = (26, 6, 29, 1)$
918 : $P_{30972} = (27, 6, 29, 1)$
919 : $P_{30973} = (28, 6, 29, 1)$
920 : $P_{30983} = (6, 7, 29, 1)$
921 : $P_{30991} = (14, 7, 29, 1)$
922 : $P_{30998} = (21, 7, 29, 1)$
923 : $P_{31066} = (25, 9, 29, 1)$
924 : $P_{31067} = (26, 9, 29, 1)$
925 : $P_{31071} = (30, 9, 29, 1)$
926 : $P_{31104} = (31, 10, 29, 1)$
927 : $P_{31197} = (28, 13, 29, 1)$
928 : $P_{31221} = (20, 14, 29, 1)$
929 : $P_{31279} = (14, 16, 29, 1)$
930 : $P_{31307} = (10, 17, 29, 1)$
931 : $P_{31370} = (9, 19, 29, 1)$
932 : $P_{31420} = (27, 20, 29, 1)$
933 : $P_{31477} = (20, 22, 29, 1)$
934 : $P_{31525} = (4, 24, 29, 1)$
935 : $P_{31652} = (3, 28, 29, 1)$
936 : $P_{31690} = (9, 29, 29, 1)$
937 : $P_{31691} = (10, 29, 29, 1)$
938 : $P_{31711} = (30, 29, 29, 1)$
939 : $P_{31716} = (3, 30, 29, 1)$
940 : $P_{31785} = (8, 0, 30, 1)$
941 : $P_{31799} = (22, 0, 30, 1)$
942 : $P_{31968} = (31, 5, 30, 1)$
943 : $P_{32064} = (31, 8, 30, 1)$

944 : $P_{32066} = (1, 9, 30, 1)$
945 : $P_{32080} = (15, 9, 30, 1)$
946 : $P_{32081} = (16, 9, 30, 1)$
947 : $P_{32124} = (27, 10, 30, 1)$
948 : $P_{32137} = (8, 11, 30, 1)$
949 : $P_{32316} = (27, 16, 30, 1)$
950 : $P_{32349} = (28, 17, 30, 1)$
951 : $P_{32368} = (15, 18, 30, 1)$
952 : $P_{32428} = (11, 20, 30, 1)$
953 : $P_{32514} = (1, 23, 30, 1)$
954 : $P_{32548} = (3, 24, 30, 1)$
955 : $P_{32556} = (11, 24, 30, 1)$
956 : $P_{32567} = (22, 24, 30, 1)$
957 : $P_{32669} = (28, 27, 30, 1)$
958 : $P_{32718} = (13, 29, 30, 1)$
959 : $P_{32772} = (3, 31, 30, 1)$
960 : $P_{32782} = (13, 31, 30, 1)$
961 : $P_{32785} = (16, 31, 30, 1)$
962 : $P_{32804} = (3, 0, 31, 1)$
963 : $P_{32829} = (28, 0, 31, 1)$
964 : $P_{32866} = (1, 2, 31, 1)$
965 : $P_{32880} = (15, 2, 31, 1)$
966 : $P_{32882} = (17, 2, 31, 1)$
967 : $P_{32932} = (3, 4, 31, 1)$
968 : $P_{32991} = (30, 5, 31, 1)$
969 : $P_{33000} = (7, 6, 31, 1)$
970 : $P_{33005} = (12, 6, 31, 1)$
971 : $P_{33013} = (20, 6, 31, 1)$
972 : $P_{33087} = (30, 8, 31, 1)$
973 : $P_{33177} = (24, 11, 31, 1)$
974 : $P_{33273} = (24, 14, 31, 1)$
975 : $P_{33352} = (7, 17, 31, 1)$
976 : $P_{33359} = (14, 17, 31, 1)$
977 : $P_{33367} = (22, 17, 31, 1)$
978 : $P_{33415} = (6, 19, 31, 1)$
979 : $P_{33422} = (13, 19, 31, 1)$
980 : $P_{33429} = (20, 19, 31, 1)$
981 : $P_{33517} = (12, 22, 31, 1)$
982 : $P_{33520} = (15, 22, 31, 1)$
983 : $P_{33533} = (28, 22, 31, 1)$
984 : $P_{33577} = (8, 24, 31, 1)$
985 : $P_{33647} = (14, 26, 31, 1)$
986 : $P_{33671} = (6, 27, 31, 1)$
987 : $P_{33673} = (8, 27, 31, 1)$
988 : $P_{33682} = (17, 27, 31, 1)$
989 : $P_{33710} = (13, 28, 31, 1)$
990 : $P_{33730} = (1, 29, 31, 1)$
991 : $P_{33815} = (22, 31, 31, 1)$

Line Intersection Graph

	0	1
0	0	1
1	1	0

Neighbor sets in the line intersection graph:
Line 0 intersects

Line	ℓ_1
in point	P_2

Line 1 intersects

Line	ℓ_0
in point	P_2

The surface has 1057 points:
Too many to print.