Rank-73798 over GF(32)

January 15, 2021

The equation

The equation of the surface is :

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

(1, 1, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 1, 0, 0, 1, 0, 0, 0)
The point rank of the equation over GF(32) is -2112846778

General information

Number of lines	1
Number of points	1025
Number of singular points	1
Number of Eckardt points	0
Number of double points	0
Number of single points	33
Number of points off lines	992
Number of Hesse planes	0
Number of axes	0
Type of points on lines	33
Type of lines on points	1^{33}, 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 1 Lines

The lines and their Pluecker coordinates are:

$$\ell_0 = \begin{bmatrix} 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1083424} = \begin{bmatrix} 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1083424} = \mathbf{Pl}(0,1,0,0,0,0)_1$$

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

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 33 single points:
The single points on the surface are:

0 : $P_2 = (0,0,1,0)$ lies on line ℓ_0
1 : $P_3 = (0,0,0,1)$ lies on line ℓ_0
2 : $P_{2082} = (0,0,1,1)$ lies on line ℓ_0
3 : $P_{3105} = (0,0,2,1)$ lies on line ℓ_0
4 : $P_{4129} = (0,0,3,1)$ lies on line ℓ_0
5 : $P_{5153} = (0,0,4,1)$ lies on line ℓ_0
6 : $P_{6177} = (0,0,5,1)$ lies on line ℓ_0
7 : $P_{7201} = (0,0,6,1)$ lies on line ℓ_0
8 : $P_{8225} = (0,0,7,1)$ lies on line ℓ_0
9 : $P_{9249} = (0,0,8,1)$ lies on line ℓ_0
10 : $P_{10273} = (0,0,9,1)$ lies on line ℓ_0
11 : $P_{11297} = (0,0,10,1)$ lies on line ℓ_0
12 : $P_{12321} = (0,0,11,1)$ lies on line ℓ_0
13 : $P_{13345} = (0,0,12,1)$ lies on line ℓ_0
14 : $P_{14369} = (0,0,13,1)$ lies on line ℓ_0
15 : $P_{15393} = (0,0,14,1)$ lies on line ℓ_0
16 : $P_{16417} = (0,0,15,1)$ lies on line ℓ_0
17 : $P_{17441} = (0,0,16,1)$ lies on line ℓ_0
18 : $P_{18465} = (0,0,17,1)$ lies on line ℓ_0
19 : $P_{19489} = (0,0,18,1)$ lies on line ℓ_0
20 : $P_{20513} = (0,0,19,1)$ lies on line ℓ_0
21 : $P_{21537} = (0,0,20,1)$ lies on line ℓ_0
22 : $P_{22561} = (0,0,21,1)$ lies on line ℓ_0
23 : $P_{23585} = (0,0,22,1)$ lies on line ℓ_0
24 : $P_{24609} = (0,0,23,1)$ lies on line ℓ_0
25 : $P_{25633} = (0,0,24,1)$ lies on line ℓ_0
26 : $P_{26657} = (0,0,25,1)$ lies on line ℓ_0
27 : $P_{27681} = (0,0,26,1)$ lies on line ℓ_0
28 : $P_{28705} = (0,0,27,1)$ lies on line ℓ_0
29 : $P_{29729} = (0,0,28,1)$ lies on line ℓ_0
30 : $P_{30753} = (0,0,29,1)$ lies on line ℓ_0
31 : $P_{31777} = (0,0,30,1)$ lies on line ℓ_0
32 : $P_{32801} = (0,0,31,1)$ lies on line ℓ_0

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 : $P_5 = (1,1,0,0)$
1 : $P_{129} = (30,2,1,0)$
2 : $P_{155} = (24,3,1,0)$
3 : $P_{182} = (19,4,1,0)$
4 : $P_{202} = (7,5,1,0)$
5 : $P_{264} = (5,7,1,0)$
6 : $P_{305} = (14,8,1,0)$
7 : $P_{307} = (16,8,1,0)$
8 : $P_{321} = (30,8,1,0)$
9 : $P_{368} = (13,10,1,0)$
10 : $P_{374} = (19,10,1,0)$
11 : $P_{385} = (30,10,1,0)$

$12: P_{447} = (28, 12, 1, 0)$
$13: P_{461} = (10, 13, 1, 0)$
$14: P_{491} = (8, 14, 1, 0)$
$15: P_{502} = (19, 14, 1, 0)$
$16: P_{510} = (27, 14, 1, 0)$
$17: P_{555} = (8, 16, 1, 0)$
$18: P_{600} = (21, 17, 1, 0)$
$19: P_{647} = (4, 19, 1, 0)$
$20: P_{653} = (10, 19, 1, 0)$
$21: P_{657} = (14, 19, 1, 0)$
$22: P_{724} = (17, 21, 1, 0)$
$23: P_{797} = (26, 23, 1, 0)$
$24: P_{806} = (3, 24, 1, 0)$
$25: P_{890} = (23, 26, 1, 0)$
$26: P_{913} = (14, 27, 1, 0)$
$27: P_{943} = (12, 28, 1, 0)$
$28: P_{997} = (2, 30, 1, 0)$
$29: P_{1003} = (8, 30, 1, 0)$
$30: P_{1005} = (10, 30, 1, 0)$
$31: P_{1091} = (1, 1, 0, 1)$
$32: P_{1135} = (13, 2, 0, 1)$
$33: P_{1171} = (17, 3, 0, 1)$
$34: P_{1213} = (27, 4, 0, 1)$
$35: P_{1230} = (12, 5, 0, 1)$
$36: P_{1269} = (19, 6, 0, 1)$
$37: P_{1297} = (15, 7, 0, 1)$
$38: P_{1336} = (22, 8, 0, 1)$
$39: P_{1367} = (21, 9, 0, 1)$
$40: P_{1403} = (25, 10, 0, 1)$
$41: P_{1438} = (28, 11, 0, 1)$
$42: P_{1445} = (3, 12, 0, 1)$
$43: P_{1478} = (4, 13, 0, 1)$
$44: P_{1512} = (6, 14, 0, 1)$
$45: P_{1561} = (23, 15, 0, 1)$
$46: P_{1572} = (2, 16, 0, 1)$
$47: P_{1628} = (26, 17, 0, 1)$
$48: P_{1641} = (7, 18, 0, 1)$
$49: P_{1695} = (29, 19, 0, 1)$
$50: P_{1706} = (8, 20, 0, 1)$
$51: P_{1761} = (31, 21, 0, 1)$
$52: P_{1776} = (14, 22, 0, 1)$
$53: P_{1803} = (9, 23, 0, 1)$
$54: P_{1837} = (11, 24, 0, 1)$
$55: P_{1888} = (30, 25, 0, 1)$
$56: P_{1895} = (5, 26, 0, 1)$
$57: P_{1938} = (16, 27, 0, 1)$
$58: P_{1972} = (18, 28, 0, 1)$
$59: P_{1996} = (10, 29, 0, 1)$
$60: P_{2038} = (20, 30, 0, 1)$
$61: P_{2074} = (24, 31, 0, 1)$
$62: P_{2153} = (8, 2, 1, 1)$
$63: P_{2162} = (17, 2, 1, 1)$
$64: P_{2169} = (24, 2, 1, 1)$
$65: P_{2183} = (6, 3, 1, 1)$
$66: P_{2216} = (7, 4, 1, 1)$
$67: P_{2219} = (10, 4, 1, 1)$
$68: P_{2221} = (12, 4, 1, 1)$
$69: P_{2261} = (20, 5, 1, 1)$
$70: P_{2487} = (22, 12, 1, 1)$
$71: P_{2500} = (3, 13, 1, 1)$
$72: P_{2525} = (28, 13, 1, 1)$
$73: P_{2527} = (30, 13, 1, 1)$
$74: P_{2607} = (14, 16, 1, 1)$
$75: P_{2614} = (21, 16, 1, 1)$
$76: P_{2619} = (26, 16, 1, 1)$
$77: P_{2654} = (29, 17, 1, 1)$
$78: P_{2938} = (25, 26, 1, 1)$
$79: P_{2950} = (5, 27, 1, 1)$
$80: P_{2964} = (19, 27, 1, 1)$
$81: P_{2968} = (23, 27, 1, 1)$
$82: P_{3142} = (5, 1, 2, 1)$
$83: P_{3183} = (14, 2, 2, 1)$
$84: P_{3191} = (22, 2, 2, 1)$
$85: P_{3194} = (25, 2, 2, 1)$
$86: P_{3247} = (14, 4, 2, 1)$
$87: P_{3292} = (27, 5, 2, 1)$
$88: P_{3304} = (7, 6, 2, 1)$
$89: P_{3305} = (8, 6, 2, 1)$
$90: P_{3311} = (14, 6, 2, 1)$
$91: P_{3335} = (6, 7, 2, 1)$
$92: P_{3339} = (10, 7, 2, 1)$
$93: P_{3342} = (13, 7, 2, 1)$
$94: P_{3405} = (12, 9, 2, 1)$
$95: P_{3427} = (2, 10, 2, 1)$
$96: P_{3475} = (18, 11, 2, 1)$
$97: P_{3572} = (19, 14, 2, 1)$
$98: P_{3669} = (20, 17, 2, 1)$
$99: P_{3716} = (3, 19, 2, 1)$
$100: P_{3779} = (2, 21, 2, 1)$
$101: P_{3802} = (25, 21, 2, 1)$
$102: P_{3803} = (26, 21, 2, 1)$
$103: P_{3830} = (21, 22, 2, 1)$
$104: P_{3866} = (25, 23, 2, 1)$
$105: P_{3912} = (7, 25, 2, 1)$
$106: P_{3950} = (13, 26, 2, 1)$
$107: P_{4006} = (5, 28, 2, 1)$
$108: P_{4025} = (24, 28, 2, 1)$
$109: P_{4029} = (28, 28, 2, 1)$
$110: P_{4038} = (5, 29, 2, 1)$
$111: P_{4042} = (9, 29, 2, 1)$
$112: P_{4046} = (13, 29, 2, 1)$
$113: P_{4099} = (2, 31, 2, 1)$
$114: P_{4101} = (4, 31, 2, 1)$
$115: P_{4104} = (7, 31, 2, 1)$
$116: P_{4202} = (9, 2, 3, 1)$
$117: P_{4214} = (21, 2, 3, 1)$
$118: P_{4222} = (29, 2, 3, 1)$
$119: P_{4251} = (26, 3, 3, 1)$

120 : $P_{4272} = (15, 4, 3, 1)$
121 : $P_{4324} = (3, 6, 3, 1)$
122 : $P_{4367} = (14, 7, 3, 1)$
123 : $P_{4409} = (24, 8, 3, 1)$
124 : $P_{4461} = (12, 10, 3, 1)$
125 : $P_{4521} = (8, 12, 3, 1)$
126 : $P_{4532} = (19, 12, 3, 1)$
127 : $P_{4539} = (26, 12, 3, 1)$
128 : $P_{4614} = (5, 15, 3, 1)$
129 : $P_{4635} = (26, 15, 3, 1)$
130 : $P_{4639} = (30, 15, 3, 1)$
131 : $P_{4723} = (18, 18, 3, 1)$
132 : $P_{4745} = (8, 19, 3, 1)$
133 : $P_{4770} = (1, 20, 3, 1)$
134 : $P_{4792} = (23, 20, 3, 1)$
135 : $P_{4823} = (22, 21, 3, 1)$
136 : $P_{4835} = (2, 22, 3, 1)$
137 : $P_{4849} = (16, 22, 3, 1)$
138 : $P_{4852} = (19, 22, 3, 1)$
139 : $P_{4877} = (12, 23, 3, 1)$
140 : $P_{4956} = (27, 25, 3, 1)$
141 : $P_{4980} = (19, 26, 3, 1)$
142 : $P_{5008} = (15, 27, 3, 1)$
143 : $P_{5010} = (17, 27, 3, 1)$
144 : $P_{5024} = (31, 27, 3, 1)$
145 : $P_{5035} = (10, 28, 3, 1)$
146 : $P_{5069} = (12, 29, 3, 1)$
147 : $P_{5127} = (6, 31, 3, 1)$
148 : $P_{5129} = (8, 31, 3, 1)$
149 : $P_{5136} = (15, 31, 3, 1)$
150 : $P_{5202} = (17, 1, 4, 1)$
151 : $P_{5276} = (27, 3, 4, 1)$
152 : $P_{5287} = (6, 4, 4, 1)$
153 : $P_{5306} = (25, 4, 4, 1)$
154 : $P_{5311} = (30, 4, 4, 1)$
155 : $P_{5366} = (21, 6, 4, 1)$
156 : $P_{5414} = (5, 8, 4, 1)$
157 : $P_{5531} = (26, 11, 4, 1)$
158 : $P_{5566} = (29, 12, 4, 1)$
159 : $P_{5605} = (4, 14, 4, 1)$
160 : $P_{5642} = (9, 15, 4, 1)$
161 : $P_{5695} = (30, 16, 4, 1)$
162 : $P_{5699} = (2, 17, 4, 1)$
163 : $P_{5733} = (4, 18, 4, 1)$
164 : $P_{5745} = (16, 18, 4, 1)$
165 : $P_{5750} = (21, 18, 4, 1)$
166 : $P_{5803} = (10, 20, 4, 1)$
167 : $P_{5814} = (21, 20, 4, 1)$
168 : $P_{5823} = (30, 20, 4, 1)$
169 : $P_{5839} = (14, 21, 4, 1)$
170 : $P_{5845} = (20, 21, 4, 1)$
171 : $P_{5852} = (27, 21, 4, 1)$
172 : $P_{5868} = (11, 22, 4, 1)$
173 : $P_{5874} = (17, 22, 4, 1)$
174 : $P_{5884} = (27, 22, 4, 1)$
175 : $P_{5896} = (7, 23, 4, 1)$
176 : $P_{5906} = (17, 23, 4, 1)$
177 : $P_{5912} = (23, 23, 4, 1)$
178 : $P_{5927} = (6, 24, 4, 1)$
179 : $P_{5981} = (28, 25, 4, 1)$
180 : $P_{6052} = (3, 28, 4, 1)$
181 : $P_{6053} = (4, 28, 4, 1)$
182 : $P_{6055} = (6, 28, 4, 1)$
183 : $P_{6121} = (8, 30, 4, 1)$
184 : $P_{6253} = (12, 2, 5, 1)$
185 : $P_{6259} = (18, 2, 5, 1)$
186 : $P_{6272} = (31, 2, 5, 1)$
187 : $P_{6281} = (8, 3, 5, 1)$
188 : $P_{6316} = (11, 4, 5, 1)$
189 : $P_{6327} = (22, 4, 5, 1)$
190 : $P_{6333} = (28, 4, 5, 1)$
191 : $P_{6340} = (3, 5, 5, 1)$
192 : $P_{6371} = (2, 6, 5, 1)$
193 : $P_{6443} = (10, 8, 5, 1)$
194 : $P_{6474} = (9, 9, 5, 1)$
195 : $P_{6504} = (7, 10, 5, 1)$
196 : $P_{6651} = (26, 14, 5, 1)$
197 : $P_{6720} = (31, 16, 5, 1)$
198 : $P_{6763} = (10, 18, 5, 1)$
199 : $P_{6773} = (20, 18, 5, 1)$
200 : $P_{6784} = (31, 18, 5, 1)$
201 : $P_{6822} = (5, 20, 5, 1)$
202 : $P_{6879} = (30, 21, 5, 1)$
203 : $P_{6907} = (26, 22, 5, 1)$
204 : $P_{6927} = (14, 23, 5, 1)$
205 : $P_{6971} = (26, 24, 5, 1)$
206 : $P_{6981} = (4, 25, 5, 1)$
207 : $P_{6985} = (8, 25, 5, 1)$
208 : $P_{6990} = (13, 25, 5, 1)$
209 : $P_{7012} = (3, 26, 5, 1)$
210 : $P_{7017} = (8, 26, 5, 1)$
211 : $P_{7019} = (10, 26, 5, 1)$
212 : $P_{7098} = (25, 28, 5, 1)$
213 : $P_{7106} = (1, 29, 5, 1)$
214 : $P_{7129} = (24, 29, 5, 1)$
215 : $P_{7172} = (3, 31, 5, 1)$
216 : $P_{7186} = (17, 31, 5, 1)$
217 : $P_{7188} = (19, 31, 5, 1)$
218 : $P_{7255} = (22, 1, 6, 1)$
219 : $P_{7271} = (6, 2, 6, 1)$
220 : $P_{7318} = (21, 3, 6, 1)$
221 : $P_{7345} = (16, 4, 6, 1)$
222 : $P_{7362} = (1, 5, 6, 1)$
223 : $P_{7376} = (15, 5, 6, 1)$
224 : $P_{7406} = (13, 6, 6, 1)$
225 : $P_{7443} = (18, 7, 6, 1)$
226 : $P_{7470} = (13, 8, 6, 1)$
227 : $P_{7476} = (19, 8, 6, 1)$

$228: P_{7488} = (31, 8, 6, 1)$
$229: P_{7492} = (3, 9, 6, 1)$
$230: P_{7597} = (12, 12, 6, 1)$
$231: P_{7662} = (13, 14, 6, 1)$
$232: P_{7669} = (20, 14, 6, 1)$
$233: P_{7673} = (24, 14, 6, 1)$
$234: P_{7691} = (10, 15, 6, 1)$
$235: P_{7714} = (1, 16, 6, 1)$
$236: P_{7723} = (10, 16, 6, 1)$
$237: P_{7748} = (3, 17, 6, 1)$
$238: P_{7847} = (6, 20, 6, 1)$
$239: P_{7874} = (1, 21, 6, 1)$
$240: P_{7877} = (4, 21, 6, 1)$
$241: P_{7911} = (6, 22, 6, 1)$
$242: P_{7972} = (3, 24, 6, 1)$
$243: P_{8010} = (9, 25, 6, 1)$
$244: P_{8062} = (29, 26, 6, 1)$
$245: P_{8150} = (21, 29, 6, 1)$
$246: P_{8182} = (21, 30, 6, 1)$
$247: P_{8203} = (10, 31, 6, 1)$
$248: P_{8216} = (23, 31, 6, 1)$
$249: P_{8221} = (28, 31, 6, 1)$
$250: P_{8266} = (9, 1, 7, 1)$
$251: P_{8276} = (19, 1, 7, 1)$
$252: P_{8284} = (27, 1, 7, 1)$
$253: P_{8305} = (16, 2, 7, 1)$
$254: P_{8401} = (16, 5, 7, 1)$
$255: P_{8465} = (16, 7, 7, 1)$
$256: P_{8510} = (29, 8, 7, 1)$
$257: P_{8517} = (4, 9, 7, 1)$
$258: P_{8620} = (11, 12, 7, 1)$
$259: P_{8651} = (10, 13, 7, 1)$
$260: P_{8687} = (14, 14, 7, 1)$
$261: P_{8810} = (9, 18, 7, 1)$
$262: P_{8837} = (4, 19, 7, 1)$
$263: P_{8842} = (9, 19, 7, 1)$
$264: P_{8845} = (12, 19, 7, 1)$
$265: P_{9056} = (31, 25, 7, 1)$
$266: P_{9061} = (4, 26, 7, 1)$
$267: P_{9075} = (18, 26, 7, 1)$
$268: P_{9080} = (23, 26, 7, 1)$
$269: P_{9156} = (3, 29, 7, 1)$
$270: P_{9186} = (1, 30, 7, 1)$
$271: P_{9190} = (5, 30, 7, 1)$
$272: P_{9368} = (23, 3, 8, 1)$
$273: P_{9381} = (4, 4, 8, 1)$
$274: P_{9401} = (24, 4, 8, 1)$
$275: P_{9406} = (29, 4, 8, 1)$
$276: P_{9417} = (8, 5, 8, 1)$
$277: P_{9431} = (22, 5, 8, 1)$
$278: P_{9440} = (31, 5, 8, 1)$
$279: P_{9450} = (9, 6, 8, 1)$
$280: P_{9507} = (2, 8, 8, 1)$
$281: P_{9564} = (27, 9, 8, 1)$
$282: P_{9598} = (29, 10, 8, 1)$
$283: P_{9607} = (6, 11, 8, 1)$
$284: P_{9646} = (13, 12, 8, 1)$
$285: P_{9677} = (12, 13, 8, 1)$
$286: P_{9688} = (23, 13, 8, 1)$
$287: P_{9691} = (26, 13, 8, 1)$
$288: P_{9708} = (11, 14, 8, 1)$
$289: P_{9720} = (23, 14, 8, 1)$
$290: P_{9726} = (29, 14, 8, 1)$
$291: P_{9747} = (18, 15, 8, 1)$
$292: P_{9881} = (24, 19, 8, 1)$
$293: P_{9940} = (19, 21, 8, 1)$
$294: P_{9996} = (11, 23, 8, 1)$
$295: P_{10003} = (18, 23, 8, 1)$
$296: P_{10009} = (24, 23, 8, 1)$
$297: P_{10022} = (5, 24, 8, 1)$
$298: P_{10035} = (18, 24, 8, 1)$
$299: P_{10039} = (22, 24, 8, 1)$
$300: P_{10060} = (11, 25, 8, 1)$
$301: P_{10095} = (14, 26, 8, 1)$
$302: P_{10166} = (21, 28, 8, 1)$
$303: P_{10199} = (22, 29, 8, 1)$
$304: P_{10333} = (28, 1, 9, 1)$
$305: P_{10365} = (28, 2, 9, 1)$
$306: P_{10397} = (28, 3, 9, 1)$
$307: P_{10404} = (3, 4, 9, 1)$
$308: P_{10462} = (29, 5, 9, 1)$
$309: P_{10520} = (23, 7, 9, 1)$
$310: P_{10544} = (15, 8, 9, 1)$
$311: P_{10581} = (20, 9, 9, 1)$
$312: P_{10604} = (11, 10, 9, 1)$
$313: P_{10635} = (10, 11, 9, 1)$
$314: P_{10760} = (7, 15, 9, 1)$
$315: P_{10789} = (4, 16, 9, 1)$
$316: P_{10828} = (11, 17, 9, 1)$
$317: P_{10852} = (3, 18, 9, 1)$
$318: P_{10874} = (25, 18, 9, 1)$
$319: P_{10876} = (27, 18, 9, 1)$
$320: P_{10907} = (26, 19, 9, 1)$
$321: P_{10955} = (10, 21, 9, 1)$
$322: P_{10980} = (3, 22, 9, 1)$
$323: P_{10997} = (20, 22, 9, 1)$
$324: P_{10999} = (22, 22, 9, 1)$
$325: P_{11043} = (2, 24, 9, 1)$
$326: P_{11129} = (24, 26, 9, 1)$
$327: P_{11148} = (11, 27, 9, 1)$
$328: P_{11209} = (8, 29, 9, 1)$
$329: P_{11243} = (10, 30, 9, 1)$
$330: P_{11266} = (1, 31, 9, 1)$
$331: P_{11285} = (20, 31, 9, 1)$
$332: P_{11423} = (30, 3, 10, 1)$
$333: P_{11481} = (24, 5, 10, 1)$
$334: P_{11504} = (15, 6, 10, 1)$
$335: P_{11530} = (9, 7, 10, 1)$

336 : $P_{11538} = (17, 7, 10, 1)$
337 : $P_{11546} = (25, 7, 10, 1)$
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744 : $P_{25062} = (5, 14, 23, 1)$
745 : $P_{25084} = (27, 14, 23, 1)$
746 : $P_{25088} = (31, 14, 23, 1)$
747 : $P_{25120} = (31, 15, 23, 1)$
748 : $P_{25168} = (15, 17, 23, 1)$
749 : $P_{25174} = (21, 17, 23, 1)$
750 : $P_{25180} = (27, 17, 23, 1)$
751 : $P_{25347} = (2, 23, 23, 1)$
752 : $P_{25443} = (2, 26, 23, 1)$
753 : $P_{25548} = (11, 29, 23, 1)$
754 : $P_{25575} = (6, 30, 23, 1)$
755 : $P_{25628} = (27, 31, 23, 1)$
756 : $P_{25678} = (13, 1, 24, 1)$
757 : $P_{25683} = (18, 1, 24, 1)$
758 : $P_{25695} = (30, 1, 24, 1)$
759 : $P_{25733} = (4, 3, 24, 1)$
760 : $P_{25963} = (10, 10, 24, 1)$
761 : $P_{26019} = (2, 12, 24, 1)$
762 : $P_{26045} = (28, 12, 24, 1)$
763 : $P_{26048} = (31, 12, 24, 1)$
764 : $P_{26082} = (1, 14, 24, 1)$
765 : $P_{26084} = (3, 14, 24, 1)$
766 : $P_{26153} = (8, 16, 24, 1)$
767 : $P_{26186} = (9, 17, 24, 1)$

768 : $P_{26211} = (2, 18, 24, 1)$
769 : $P_{26261} = (20, 19, 24, 1)$
770 : $P_{26299} = (26, 20, 24, 1)$
771 : $P_{26352} = (15, 22, 24, 1)$
772 : $P_{26405} = (4, 24, 24, 1)$
773 : $P_{26501} = (4, 27, 24, 1)$
774 : $P_{26595} = (2, 30, 24, 1)$
775 : $P_{26610} = (17, 30, 24, 1)$
776 : $P_{26611} = (18, 30, 24, 1)$
777 : $P_{26643} = (18, 31, 24, 1)$
778 : $P_{26718} = (29, 1, 25, 1)$
779 : $P_{26725} = (4, 2, 25, 1)$
780 : $P_{26754} = (1, 3, 25, 1)$
781 : $P_{26764} = (11, 3, 25, 1)$
782 : $P_{26786} = (1, 4, 25, 1)$
783 : $P_{26793} = (8, 4, 25, 1)$
784 : $P_{26843} = (26, 5, 25, 1)$
785 : $P_{26874} = (25, 6, 25, 1)$
786 : $P_{26882} = (1, 7, 25, 1)$
787 : $P_{26883} = (2, 7, 25, 1)$
788 : $P_{26983} = (6, 10, 25, 1)$
789 : $P_{26993} = (16, 10, 25, 1)$
790 : $P_{27000} = (23, 10, 25, 1)$
791 : $P_{27017} = (8, 11, 25, 1)$
792 : $P_{27061} = (20, 12, 25, 1)$
793 : $P_{27112} = (7, 14, 25, 1)$
794 : $P_{27145} = (8, 15, 25, 1)$
795 : $P_{27158} = (21, 15, 25, 1)$
796 : $P_{27165} = (28, 15, 25, 1)$
797 : $P_{27218} = (17, 17, 25, 1)$
798 : $P_{27259} = (26, 18, 25, 1)$
799 : $P_{27280} = (15, 19, 25, 1)$
800 : $P_{27281} = (16, 19, 25, 1)$
801 : $P_{27295} = (30, 19, 25, 1)$
802 : $P_{27304} = (7, 20, 25, 1)$
803 : $P_{27379} = (18, 22, 25, 1)$
804 : $P_{27419} = (26, 23, 25, 1)$
805 : $P_{27456} = (31, 24, 25, 1)$
806 : $P_{27473} = (16, 25, 25, 1)$
807 : $P_{27496} = (7, 26, 25, 1)$
808 : $P_{27546} = (25, 27, 25, 1)$
809 : $P_{27610} = (25, 29, 25, 1)$
810 : $P_{27756} = (11, 2, 26, 1)$
811 : $P_{27874} = (1, 6, 26, 1)$
812 : $P_{27901} = (28, 6, 26, 1)$
813 : $P_{27934} = (29, 7, 26, 1)$
814 : $P_{27954} = (17, 8, 26, 1)$
815 : $P_{28036} = (3, 11, 26, 1)$
816 : $P_{28045} = (12, 11, 26, 1)$
817 : $P_{28047} = (14, 11, 26, 1)$
818 : $P_{28095} = (30, 12, 26, 1)$
819 : $P_{28102} = (5, 13, 26, 1)$
820 : $P_{28108} = (11, 13, 26, 1)$
821 : $P_{28112} = (15, 13, 26, 1)$
822 : $P_{28172} = (11, 15, 26, 1)$
823 : $P_{28180} = (19, 15, 26, 1)$
824 : $P_{28186} = (25, 15, 26, 1)$
825 : $P_{28237} = (12, 17, 26, 1)$
826 : $P_{28244} = (19, 17, 26, 1)$
827 : $P_{28255} = (30, 17, 26, 1)$
828 : $P_{28312} = (23, 19, 26, 1)$
829 : $P_{28338} = (17, 20, 26, 1)$
830 : $P_{28361} = (8, 21, 26, 1)$
831 : $P_{28398} = (13, 22, 26, 1)$
832 : $P_{28459} = (10, 24, 26, 1)$
833 : $P_{28507} = (26, 25, 26, 1)$
834 : $P_{28525} = (12, 26, 26, 1)$
835 : $P_{28552} = (7, 27, 26, 1)$
836 : $P_{28563} = (18, 27, 26, 1)$
837 : $P_{28565} = (20, 27, 26, 1)$
838 : $P_{28594} = (17, 28, 26, 1)$
839 : $P_{28613} = (4, 29, 26, 1)$
840 : $P_{28636} = (27, 29, 26, 1)$
841 : $P_{28639} = (30, 29, 26, 1)$
842 : $P_{28660} = (19, 30, 26, 1)$
843 : $P_{28704} = (31, 31, 26, 1)$
844 : $P_{28740} = (3, 1, 27, 1)$
845 : $P_{28779} = (10, 2, 27, 1)$
846 : $P_{28814} = (13, 3, 27, 1)$
847 : $P_{28871} = (6, 5, 27, 1)$
848 : $P_{28941} = (12, 7, 27, 1)$
849 : $P_{28951} = (22, 7, 27, 1)$
850 : $P_{28956} = (27, 7, 27, 1)$
851 : $P_{28988} = (27, 8, 27, 1)$
852 : $P_{29024} = (31, 9, 27, 1)$
853 : $P_{29055} = (30, 10, 27, 1)$
854 : $P_{29105} = (16, 12, 27, 1)$
855 : $P_{29187} = (2, 15, 27, 1)$
856 : $P_{29209} = (24, 15, 27, 1)$
857 : $P_{29212} = (27, 15, 27, 1)$
858 : $P_{29298} = (17, 18, 27, 1)$
859 : $P_{29348} = (3, 20, 27, 1)$
860 : $P_{29361} = (16, 20, 27, 1)$
861 : $P_{29363} = (18, 20, 27, 1)$
862 : $P_{29380} = (3, 21, 27, 1)$
863 : $P_{29398} = (21, 21, 27, 1)$
864 : $P_{29400} = (23, 21, 27, 1)$
865 : $P_{29433} = (24, 22, 27, 1)$
866 : $P_{29481} = (8, 24, 27, 1)$
867 : $P_{29489} = (16, 24, 27, 1)$
868 : $P_{29498} = (25, 24, 27, 1)$
869 : $P_{29515} = (10, 25, 27, 1)$
870 : $P_{29524} = (19, 25, 27, 1)$
871 : $P_{29529} = (24, 25, 27, 1)$
872 : $P_{29579} = (10, 27, 27, 1)$
873 : $P_{29591} = (22, 27, 27, 1)$
874 : $P_{29598} = (29, 27, 27, 1)$
875 : $P_{29623} = (22, 28, 27, 1)$

876 : $P_{29640} = (7, 29, 27, 1)$
877 : $P_{29691} = (26, 30, 27, 1)$
878 : $P_{29765} = (4, 1, 28, 1)$
879 : $P_{29771} = (10, 1, 28, 1)$
880 : $P_{29776} = (15, 1, 28, 1)$
881 : $P_{29823} = (30, 2, 28, 1)$
882 : $P_{29856} = (31, 3, 28, 1)$
883 : $P_{29896} = (7, 5, 28, 1)$
884 : $P_{29900} = (11, 5, 28, 1)$
885 : $P_{29902} = (13, 5, 28, 1)$
886 : $P_{29986} = (1, 8, 28, 1)$
887 : $P_{29997} = (12, 8, 28, 1)$
888 : $P_{30052} = (3, 10, 28, 1)$
889 : $P_{30062} = (13, 10, 28, 1)$
890 : $P_{30064} = (15, 10, 28, 1)$
891 : $P_{30096} = (15, 11, 28, 1)$
892 : $P_{30140} = (27, 12, 28, 1)$
893 : $P_{30202} = (25, 14, 28, 1)$
894 : $P_{30222} = (13, 15, 28, 1)$
895 : $P_{30268} = (27, 16, 28, 1)$
896 : $P_{30356} = (19, 19, 28, 1)$
897 : $P_{30378} = (9, 20, 28, 1)$
898 : $P_{30546} = (17, 25, 28, 1)$
899 : $P_{30652} = (27, 28, 28, 1)$
900 : $P_{30791} = (6, 1, 29, 1)$
901 : $P_{30852} = (3, 3, 29, 1)$
902 : $P_{30938} = (25, 5, 29, 1)$
903 : $P_{30974} = (29, 6, 29, 1)$
904 : $P_{31032} = (23, 8, 29, 1)$
905 : $P_{31048} = (7, 9, 29, 1)$
906 : $P_{31065} = (24, 9, 29, 1)$
907 : $P_{31071} = (30, 9, 29, 1)$
908 : $P_{31138} = (1, 12, 29, 1)$
909 : $P_{31155} = (18, 12, 29, 1)$
910 : $P_{31196} = (27, 13, 29, 1)$
911 : $P_{31203} = (2, 14, 29, 1)$
912 : $P_{31210} = (9, 14, 29, 1)$
913 : $P_{31211} = (10, 14, 29, 1)$
914 : $P_{31250} = (17, 15, 29, 1)$
915 : $P_{31294} = (29, 16, 29, 1)$
916 : $P_{31320} = (23, 17, 29, 1)$
917 : $P_{31359} = (30, 18, 29, 1)$
918 : $P_{31363} = (2, 19, 29, 1)$
919 : $P_{31382} = (21, 19, 29, 1)$
920 : $P_{31383} = (22, 19, 29, 1)$
921 : $P_{31408} = (15, 20, 29, 1)$
922 : $P_{31442} = (17, 21, 29, 1)$
923 : $P_{31486} = (29, 22, 29, 1)$
924 : $P_{31490} = (1, 23, 29, 1)$
925 : $P_{31502} = (13, 23, 29, 1)$
926 : $P_{31576} = (23, 25, 29, 1)$
927 : $P_{31602} = (17, 26, 29, 1)$
928 : $P_{31618} = (1, 27, 29, 1)$
929 : $P_{31647} = (30, 27, 29, 1)$
930 : $P_{31660} = (11, 28, 29, 1)$
931 : $P_{31683} = (2, 29, 29, 1)$
932 : $P_{31910} = (5, 4, 30, 1)$
933 : $P_{31922} = (17, 4, 30, 1)$
934 : $P_{31926} = (21, 4, 30, 1)$
935 : $P_{31941} = (4, 5, 30, 1)$
936 : $P_{31989} = (20, 6, 30, 1)$
937 : $P_{32025} = (24, 7, 30, 1)$
938 : $P_{32039} = (6, 8, 30, 1)$
939 : $P_{32051} = (18, 8, 30, 1)$
940 : $P_{32054} = (21, 8, 30, 1)$
941 : $P_{32080} = (15, 9, 30, 1)$
942 : $P_{32182} = (21, 12, 30, 1)$
943 : $P_{32253} = (28, 14, 30, 1)$
944 : $P_{32329} = (8, 17, 30, 1)$
945 : $P_{32375} = (22, 18, 30, 1)$
946 : $P_{32391} = (6, 19, 30, 1)$
947 : $P_{32464} = (15, 21, 30, 1)$
948 : $P_{32467} = (18, 21, 30, 1)$
949 : $P_{32477} = (28, 21, 30, 1)$
950 : $P_{32512} = (31, 22, 30, 1)$
951 : $P_{32559} = (14, 24, 30, 1)$
952 : $P_{32620} = (11, 26, 30, 1)$
953 : $P_{32629} = (20, 26, 30, 1)$
954 : $P_{32639} = (30, 26, 30, 1)$
955 : $P_{32647} = (6, 27, 30, 1)$
956 : $P_{32668} = (27, 27, 30, 1)$
957 : $P_{32669} = (28, 27, 30, 1)$
958 : $P_{32688} = (15, 28, 30, 1)$
959 : $P_{32693} = (20, 28, 30, 1)$
960 : $P_{32699} = (26, 28, 30, 1)$
961 : $P_{32723} = (18, 29, 30, 1)$
962 : $P_{32750} = (13, 30, 30, 1)$
963 : $P_{32785} = (16, 31, 30, 1)$
964 : $P_{32840} = (7, 1, 31, 1)$
965 : $P_{32892} = (27, 2, 31, 1)$
966 : $P_{32915} = (18, 3, 31, 1)$
967 : $P_{33023} = (30, 6, 31, 1)$
968 : $P_{33112} = (23, 9, 31, 1)$
969 : $P_{33140} = (19, 10, 31, 1)$
970 : $P_{33154} = (1, 11, 31, 1)$
971 : $P_{33178} = (25, 11, 31, 1)$
972 : $P_{33192} = (7, 12, 31, 1)$
973 : $P_{33224} = (7, 13, 31, 1)$
974 : $P_{33266} = (17, 14, 31, 1)$
975 : $P_{33293} = (12, 15, 31, 1)$
976 : $P_{33297} = (16, 15, 31, 1)$
977 : $P_{33310} = (29, 15, 31, 1)$
978 : $P_{33331} = (18, 16, 31, 1)$
979 : $P_{33373} = (28, 17, 31, 1)$
980 : $P_{33396} = (19, 18, 31, 1)$
981 : $P_{33427} = (18, 19, 31, 1)$
982 : $P_{33453} = (12, 20, 31, 1)$
983 : $P_{33461} = (20, 20, 31, 1)$

984 : $P_{33466} = (25, 20, 31, 1)$
985 : $P_{33558} = (21, 23, 31, 1)$
986 : $P_{33588} = (19, 24, 31, 1)$
987 : $P_{33639} = (6, 26, 31, 1)$
988 : $P_{33677} = (12, 27, 31, 1)$
989 : $P_{33710} = (13, 28, 31, 1)$
990 : $P_{33770} = (9, 30, 31, 1)$
991 : $P_{33818} = (25, 31, 31, 1)$

Line Intersection Graph

	0
0	0

Neighbor sets in the line intersection graph:
Line 0 intersects

Line
in point

The surface has 1025 points:
Too many to print.