Rank-65614 over GF(32)

January 15, 2021

The equation

The equation of the surface is :

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

(1, 1, 0, 1, 0, 0, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0)
The point rank of the equation over GF(32) is -2112814010

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:

$$\ell_0 = \left[\begin{array}{cccc} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 0 \end{array}\right]_{1082401} = \left[\begin{array}{cccc} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 0 \end{array}\right]_{1082401} = \mathbf{Pl}(0,1,0,0,0,1)_{34881}$$

Rank of lines: (1082401)
Rank of points on Klein quadric: (34881)

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 : $P_{1090} = (0,1,0,1)$ lies on line ℓ_0
2 : $P_{2114} = (0,1,1,1)$ lies on line ℓ_0
3 : $P_{3137} = (0,1,2,1)$ lies on line ℓ_0
4 : $P_{4161} = (0,1,3,1)$ lies on line ℓ_0
5 : $P_{5185} = (0,1,4,1)$ lies on line ℓ_0
6 : $P_{6209} = (0,1,5,1)$ lies on line ℓ_0
7 : $P_{7233} = (0,1,6,1)$ lies on line ℓ_0
8 : $P_{8257} = (0,1,7,1)$ lies on line ℓ_0
9 : $P_{9281} = (0,1,8,1)$ lies on line ℓ_0
10 : $P_{10305} = (0,1,9,1)$ lies on line ℓ_0
11 : $P_{11329} = (0,1,10,1)$ lies on line ℓ_0
12 : $P_{12353} = (0,1,11,1)$ lies on line ℓ_0
13 : $P_{13377} = (0,1,12,1)$ lies on line ℓ_0
14 : $P_{14401} = (0,1,13,1)$ lies on line ℓ_0
15 : $P_{15425} = (0,1,14,1)$ lies on line ℓ_0
16 : $P_{16449} = (0,1,15,1)$ lies on line ℓ_0
17 : $P_{17473} = (0,1,16,1)$ lies on line ℓ_0
18 : $P_{18497} = (0,1,17,1)$ lies on line ℓ_0
19 : $P_{19521} = (0,1,18,1)$ lies on line ℓ_0
20 : $P_{20545} = (0,1,19,1)$ lies on line ℓ_0
21 : $P_{21569} = (0,1,20,1)$ lies on line ℓ_0
22 : $P_{22593} = (0,1,21,1)$ lies on line ℓ_0
23 : $P_{23617} = (0,1,22,1)$ lies on line ℓ_0
24 : $P_{24641} = (0,1,23,1)$ lies on line ℓ_0
25 : $P_{25665} = (0,1,24,1)$ lies on line ℓ_0
26 : $P_{26689} = (0,1,25,1)$ lies on line ℓ_0
27 : $P_{27713} = (0,1,26,1)$ lies on line ℓ_0
28 : $P_{28737} = (0,1,27,1)$ lies on line ℓ_0
29 : $P_{29761} = (0,1,28,1)$ lies on line ℓ_0
30 : $P_{30785} = (0,1,29,1)$ lies on line ℓ_0
31 : $P_{31809} = (0,1,30,1)$ lies on line ℓ_0
32 : $P_{32833} = (0,1,31,1)$ 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 : $P_{385} = (30,10,1,0)$

$12: P_{447} = (28, 12, 1, 0)$
$13: P_{461} = (10, 13, 1, 0)$
$14: P_{491} = (8, 14, 1, 0)$
$15: P_{502} = (19, 14, 1, 0)$
$16: P_{510} = (27, 14, 1, 0)$
$17: P_{555} = (8, 16, 1, 0)$
$18: P_{600} = (21, 17, 1, 0)$
$19: P_{647} = (4, 19, 1, 0)$
$20: P_{653} = (10, 19, 1, 0)$
$21: P_{657} = (14, 19, 1, 0)$
$22: P_{724} = (17, 21, 1, 0)$
$23: P_{797} = (26, 23, 1, 0)$
$24: P_{806} = (3, 24, 1, 0)$
$25: P_{890} = (23, 26, 1, 0)$
$26: P_{913} = (14, 27, 1, 0)$
$27: P_{943} = (12, 28, 1, 0)$
$28: P_{997} = (2, 30, 1, 0)$
$29: P_{1003} = (8, 30, 1, 0)$
$30: P_{1005} = (10, 30, 1, 0)$
$31: P_{1091} = (1, 1, 0, 1)$
$32: P_{1133} = (11, 2, 0, 1)$
$33: P_{1159} = (5, 3, 0, 1)$
$34: P_{1201} = (15, 4, 0, 1)$
$35: P_{1235} = (17, 5, 0, 1)$
$36: P_{1295} = (13, 7, 0, 1)$
$37: P_{1302} = (20, 7, 0, 1)$
$38: P_{1306} = (24, 7, 0, 1)$
$39: P_{1328} = (14, 8, 0, 1)$
$40: P_{1408} = (30, 10, 0, 1)$
$41: P_{1468} = (26, 12, 0, 1)$
$42: P_{1492} = (18, 13, 0, 1)$
$43: P_{1525} = (19, 14, 0, 1)$
$44: P_{1601} = (31, 16, 0, 1)$
$45: P_{1614} = (12, 17, 0, 1)$
$46: P_{1676} = (10, 19, 0, 1)$
$47: P_{1737} = (7, 21, 0, 1)$
$48: P_{1757} = (27, 21, 0, 1)$
$49: P_{1759} = (29, 21, 0, 1)$
$50: P_{1798} = (4, 23, 0, 1)$
$51: P_{1819} = (25, 23, 0, 1)$
$52: P_{1822} = (28, 23, 0, 1)$
$53: P_{1832} = (6, 24, 0, 1)$
$54: P_{1842} = (16, 24, 0, 1)$
$55: P_{1849} = (23, 24, 0, 1)$
$56: P_{1893} = (3, 26, 0, 1)$
$57: P_{1931} = (9, 27, 0, 1)$
$58: P_{1956} = (2, 28, 0, 1)$
$59: P_{1975} = (21, 28, 0, 1)$
$60: P_{1976} = (22, 28, 0, 1)$
$61: P_{2026} = (8, 30, 0, 1)$
$62: P_{2284} = (11, 6, 1, 1)$
$63: P_{2348} = (11, 8, 1, 1)$
$64: P_{2355} = (18, 8, 1, 1)$
$65: P_{2361} = (24, 8, 1, 1)$
$66: P_{2408} = (7, 10, 1, 1)$
$67: P_{2410} = (9, 10, 1, 1)$
$68: P_{2416} = (15, 10, 1, 1)$
$69: P_{2540} = (11, 14, 1, 1)$
$70: P_{2550} = (21, 14, 1, 1)$
$71: P_{2560} = (31, 14, 1, 1)$
$72: P_{2698} = (9, 19, 1, 1)$
$73: P_{2712} = (23, 19, 1, 1)$
$74: P_{2720} = (31, 19, 1, 1)$
$75: P_{2736} = (15, 20, 1, 1)$
$76: P_{2803} = (18, 22, 1, 1)$
$77: P_{2890} = (9, 25, 1, 1)$
$78: P_{3040} = (31, 29, 1, 1)$
$79: P_{3056} = (15, 30, 1, 1)$
$80: P_{3059} = (18, 30, 1, 1)$
$81: P_{3069} = (28, 30, 1, 1)$
$82: P_{3145} = (8, 1, 2, 1)$
$83: P_{3146} = (9, 1, 2, 1)$
$84: P_{3185} = (16, 2, 2, 1)$
$85: P_{3214} = (13, 3, 2, 1)$
$86: P_{3343} = (14, 7, 2, 1)$
$87: P_{3382} = (21, 8, 2, 1)$
$88: P_{3397} = (4, 9, 2, 1)$
$89: P_{3472} = (15, 11, 2, 1)$
$90: P_{3537} = (16, 13, 2, 1)$
$91: P_{3587} = (2, 15, 2, 1)$
$92: P_{3601} = (16, 15, 2, 1)$
$93: P_{3604} = (19, 15, 2, 1)$
$94: P_{3635} = (18, 16, 2, 1)$
$95: P_{3700} = (19, 18, 2, 1)$
$96: P_{3756} = (11, 20, 2, 1)$
$97: P_{3798} = (21, 21, 2, 1)$
$98: P_{3843} = (2, 23, 2, 1)$
$99: P_{3875} = (2, 24, 2, 1)$
$100: P_{3943} = (6, 26, 2, 1)$
$101: P_{3962} = (25, 26, 2, 1)$
$102: P_{3967} = (30, 26, 2, 1)$
$103: P_{3983} = (14, 27, 2, 1)$
$104: P_{4015} = (14, 28, 2, 1)$
$105: P_{4040} = (7, 29, 2, 1)$
$106: P_{4052} = (19, 29, 2, 1)$
$107: P_{4054} = (21, 29, 2, 1)$
$108: P_{4229} = (4, 3, 3, 1)$
$109: P_{4278} = (21, 4, 3, 1)$
$110: P_{4308} = (19, 5, 3, 1)$
$111: P_{4412} = (27, 8, 3, 1)$
$112: P_{4427} = (10, 9, 3, 1)$
$113: P_{4438} = (21, 9, 3, 1)$
$114: P_{4447} = (30, 9, 3, 1)$
$115: P_{4480} = (31, 10, 3, 1)$
$116: P_{4487} = (6, 11, 3, 1)$
$117: P_{4507} = (26, 11, 3, 1)$
$118: P_{4510} = (29, 11, 3, 1)$
$119: P_{4566} = (21, 13, 3, 1)$

120 : $P_{4586} = (9, 14, 3, 1)$
121 : $P_{4594} = (17, 14, 3, 1)$
122 : $P_{4602} = (25, 14, 3, 1)$
123 : $P_{4637} = (28, 15, 3, 1)$
124 : $P_{4749} = (12, 19, 3, 1)$
125 : $P_{4770} = (1, 20, 3, 1)$
126 : $P_{4791} = (22, 20, 3, 1)$
127 : $P_{4832} = (31, 21, 3, 1)$
128 : $P_{4894} = (29, 23, 3, 1)$
129 : $P_{4934} = (5, 25, 3, 1)$
130 : $P_{4996} = (3, 27, 3, 1)$
131 : $P_{5054} = (29, 28, 3, 1)$
132 : $P_{5073} = (16, 29, 3, 1)$
133 : $P_{5152} = (31, 31, 3, 1)$
134 : $P_{5195} = (10, 1, 4, 1)$
135 : $P_{5196} = (11, 1, 4, 1)$
136 : $P_{5247} = (30, 2, 4, 1)$
137 : $P_{5255} = (6, 3, 4, 1)$
138 : $P_{5268} = (19, 3, 4, 1)$
139 : $P_{5269} = (20, 3, 4, 1)$
140 : $P_{5294} = (13, 4, 4, 1)$
141 : $P_{5340} = (27, 5, 4, 1)$
142 : $P_{5381} = (4, 7, 4, 1)$
143 : $P_{5449} = (8, 9, 4, 1)$
144 : $P_{5501} = (28, 10, 4, 1)$
145 : $P_{5521} = (16, 11, 4, 1)$
146 : $P_{5578} = (9, 13, 4, 1)$
147 : $P_{5664} = (31, 15, 4, 1)$
148 : $P_{5855} = (30, 21, 4, 1)$
149 : $P_{5865} = (8, 22, 4, 1)$
150 : $P_{5878} = (21, 22, 4, 1)$
151 : $P_{5885} = (28, 22, 4, 1)$
152 : $P_{5919} = (30, 23, 4, 1)$
153 : $P_{5925} = (4, 24, 4, 1)$
154 : $P_{6030} = (13, 27, 4, 1)$
155 : $P_{6077} = (28, 28, 4, 1)$
156 : $P_{6096} = (15, 29, 4, 1)$
157 : $P_{6149} = (4, 31, 4, 1)$
158 : $P_{6153} = (8, 31, 4, 1)$
159 : $P_{6158} = (13, 31, 4, 1)$
160 : $P_{6246} = (5, 2, 5, 1)$
161 : $P_{6353} = (16, 5, 5, 1)$
162 : $P_{6386} = (17, 6, 5, 1)$
163 : $P_{6459} = (26, 8, 5, 1)$
164 : $P_{6499} = (2, 10, 5, 1)$
165 : $P_{6543} = (14, 11, 5, 1)$
166 : $P_{6548} = (19, 11, 5, 1)$
167 : $P_{6557} = (28, 11, 5, 1)$
168 : $P_{6643} = (18, 14, 5, 1)$
169 : $P_{6660} = (3, 15, 5, 1)$
170 : $P_{6677} = (20, 15, 5, 1)$
171 : $P_{6679} = (22, 15, 5, 1)$
172 : $P_{6717} = (28, 16, 5, 1)$
173 : $P_{6729} = (8, 17, 5, 1)$
174 : $P_{6771} = (18, 18, 5, 1)$
175 : $P_{6894} = (13, 22, 5, 1)$
176 : $P_{6935} = (22, 23, 5, 1)$
177 : $P_{6967} = (22, 24, 5, 1)$
178 : $P_{7069} = (28, 27, 5, 1)$
179 : $P_{7091} = (18, 28, 5, 1)$
180 : $P_{7106} = (1, 29, 5, 1)$
181 : $P_{7130} = (25, 29, 5, 1)$
182 : $P_{7143} = (6, 30, 5, 1)$
183 : $P_{7148} = (11, 30, 5, 1)$
184 : $P_{7149} = (12, 30, 5, 1)$
185 : $P_{7192} = (23, 31, 5, 1)$
186 : $P_{7235} = (2, 1, 6, 1)$
187 : $P_{7236} = (3, 1, 6, 1)$
188 : $P_{7277} = (12, 2, 6, 1)$
189 : $P_{7321} = (24, 3, 6, 1)$
190 : $P_{7362} = (1, 5, 6, 1)$
191 : $P_{7375} = (14, 5, 6, 1)$
192 : $P_{7421} = (28, 6, 6, 1)$
193 : $P_{7451} = (26, 7, 6, 1)$
194 : $P_{7467} = (10, 8, 6, 1)$
195 : $P_{7570} = (17, 11, 6, 1)$
196 : $P_{7591} = (6, 12, 6, 1)$
197 : $P_{7644} = (27, 13, 6, 1)$
198 : $P_{7664} = (15, 14, 6, 1)$
199 : $P_{7686} = (5, 15, 6, 1)$
200 : $P_{7714} = (1, 16, 6, 1)$
201 : $P_{7724} = (11, 16, 6, 1)$
202 : $P_{7760} = (15, 17, 6, 1)$
203 : $P_{7762} = (17, 17, 6, 1)$
204 : $P_{7776} = (31, 17, 6, 1)$
205 : $P_{7849} = (8, 20, 6, 1)$
206 : $P_{7874} = (1, 21, 6, 1)$
207 : $P_{7878} = (5, 21, 6, 1)$
208 : $P_{7983} = (14, 24, 6, 1)$
209 : $P_{8014} = (13, 25, 6, 1)$
210 : $P_{8023} = (22, 25, 6, 1)$
211 : $P_{8027} = (26, 25, 6, 1)$
212 : $P_{8038} = (5, 26, 6, 1)$
213 : $P_{8050} = (17, 26, 6, 1)$
214 : $P_{8054} = (21, 26, 6, 1)$
215 : $P_{8094} = (29, 27, 6, 1)$
216 : $P_{8100} = (3, 28, 6, 1)$
217 : $P_{8132} = (3, 29, 6, 1)$
218 : $P_{8141} = (12, 29, 6, 1)$
219 : $P_{8143} = (14, 29, 6, 1)$
220 : $P_{8163} = (2, 30, 6, 1)$
221 : $P_{8186} = (25, 30, 6, 1)$
222 : $P_{8187} = (26, 30, 6, 1)$
223 : $P_{8195} = (2, 31, 6, 1)$
224 : $P_{8205} = (12, 31, 6, 1)$
225 : $P_{8208} = (15, 31, 6, 1)$
226 : $P_{8302} = (13, 2, 7, 1)$
227 : $P_{8356} = (3, 4, 7, 1)$

228 : $P_{8361} = (8, 4, 7, 1)$
229 : $P_{8363} = (10, 4, 7, 1)$
230 : $P_{8435} = (18, 6, 7, 1)$
231 : $P_{8454} = (5, 7, 7, 1)$
232 : $P_{8476} = (27, 7, 7, 1)$
233 : $P_{8480} = (31, 7, 7, 1)$
234 : $P_{8493} = (12, 8, 7, 1)$
235 : $P_{8530} = (17, 9, 7, 1)$
236 : $P_{8555} = (10, 10, 7, 1)$
237 : $P_{8600} = (23, 11, 7, 1)$
238 : $P_{8622} = (13, 12, 7, 1)$
239 : $P_{8665} = (24, 13, 7, 1)$
240 : $P_{8679} = (6, 14, 7, 1)$
241 : $P_{8683} = (10, 14, 7, 1)$
242 : $P_{8686} = (13, 14, 7, 1)$
243 : $P_{8726} = (21, 15, 7, 1)$
244 : $P_{8767} = (30, 16, 7, 1)$
245 : $P_{8776} = (7, 17, 7, 1)$
246 : $P_{8787} = (18, 17, 7, 1)$
247 : $P_{8789} = (20, 17, 7, 1)$
248 : $P_{8860} = (27, 19, 7, 1)$
249 : $P_{8892} = (27, 20, 7, 1)$
250 : $P_{8922} = (25, 21, 7, 1)$
251 : $P_{8967} = (6, 23, 7, 1)$
252 : $P_{8979} = (18, 23, 7, 1)$
253 : $P_{8982} = (21, 23, 7, 1)$
254 : $P_{9014} = (21, 24, 7, 1)$
255 : $P_{9031} = (6, 25, 7, 1)$
256 : $P_{9033} = (8, 25, 7, 1)$
257 : $P_{9040} = (15, 25, 7, 1)$
258 : $P_{9111} = (22, 27, 7, 1)$
259 : $P_{9147} = (26, 28, 7, 1)$
260 : $P_{9161} = (8, 29, 7, 1)$
261 : $P_{9186} = (1, 30, 7, 1)$
262 : $P_{9189} = (4, 30, 7, 1)$
263 : $P_{9228} = (11, 31, 7, 1)$
264 : $P_{9315} = (2, 2, 8, 1)$
265 : $P_{9341} = (28, 2, 8, 1)$
266 : $P_{9344} = (31, 2, 8, 1)$
267 : $P_{9353} = (8, 3, 8, 1)$
268 : $P_{9388} = (11, 4, 8, 1)$
269 : $P_{9397} = (20, 4, 8, 1)$
270 : $P_{9407} = (30, 4, 8, 1)$
271 : $P_{9422} = (13, 5, 8, 1)$
272 : $P_{9430} = (21, 5, 8, 1)$
273 : $P_{9434} = (25, 5, 8, 1)$
274 : $P_{9456} = (15, 6, 8, 1)$
275 : $P_{9492} = (19, 7, 8, 1)$
276 : $P_{9530} = (25, 8, 8, 1)$
277 : $P_{9623} = (22, 11, 8, 1)$
278 : $P_{9649} = (16, 12, 8, 1)$
279 : $P_{9690} = (25, 13, 8, 1)$
280 : $P_{9804} = (11, 17, 8, 1)$
281 : $P_{9925} = (4, 21, 8, 1)$
282 : $P_{9932} = (11, 21, 8, 1)$
283 : $P_{9935} = (14, 21, 8, 1)$
284 : $P_{9976} = (23, 22, 8, 1)$
285 : $P_{10133} = (20, 27, 8, 1)$
286 : $P_{10183} = (6, 29, 8, 1)$
287 : $P_{10261} = (20, 31, 8, 1)$
288 : $P_{10325} = (20, 1, 9, 1)$
289 : $P_{10326} = (21, 1, 9, 1)$
290 : $P_{10361} = (24, 2, 9, 1)$
291 : $P_{10400} = (31, 3, 9, 1)$
292 : $P_{10406} = (5, 4, 9, 1)$
293 : $P_{10559} = (30, 8, 9, 1)$
294 : $P_{10580} = (19, 9, 9, 1)$
295 : $P_{10613} = (20, 10, 9, 1)$
296 : $P_{10645} = (20, 11, 9, 1)$
297 : $P_{10665} = (8, 12, 9, 1)$
298 : $P_{10674} = (17, 12, 9, 1)$
299 : $P_{10681} = (24, 12, 9, 1)$
300 : $P_{10745} = (24, 14, 9, 1)$
301 : $P_{10757} = (4, 15, 9, 1)$
302 : $P_{10811} = (26, 16, 9, 1)$
303 : $P_{10860} = (11, 18, 9, 1)$
304 : $P_{10926} = (13, 20, 9, 1)$
305 : $P_{10929} = (16, 20, 9, 1)$
306 : $P_{10941} = (28, 20, 9, 1)$
307 : $P_{10954} = (9, 21, 9, 1)$
308 : $P_{11048} = (7, 24, 9, 1)$
309 : $P_{11085} = (12, 25, 9, 1)$
310 : $P_{11230} = (29, 29, 9, 1)$
311 : $P_{11236} = (3, 30, 9, 1)$
312 : $P_{11254} = (21, 30, 9, 1)$
313 : $P_{11256} = (23, 30, 9, 1)$
314 : $P_{11266} = (1, 31, 9, 1)$
315 : $P_{11286} = (21, 31, 9, 1)$
316 : $P_{11390} = (29, 2, 10, 1)$
317 : $P_{11429} = (4, 4, 10, 1)$
318 : $P_{11443} = (18, 4, 10, 1)$
319 : $P_{11448} = (23, 4, 10, 1)$
320 : $P_{11467} = (10, 5, 10, 1)$
321 : $P_{11623} = (6, 10, 10, 1)$
322 : $P_{11696} = (15, 12, 10, 1)$
323 : $P_{11802} = (25, 15, 10, 1)$
324 : $P_{11824} = (15, 16, 10, 1)$
325 : $P_{11828} = (19, 16, 10, 1)$
326 : $P_{11838} = (29, 16, 10, 1)$
327 : $P_{11847} = (6, 17, 10, 1)$
328 : $P_{11868} = (27, 17, 10, 1)$
329 : $P_{11869} = (28, 17, 10, 1)$
330 : $P_{11902} = (29, 18, 10, 1)$
331 : $P_{11968} = (31, 20, 10, 1)$
332 : $P_{11977} = (8, 21, 10, 1)$
333 : $P_{12021} = (20, 22, 10, 1)$
334 : $P_{12121} = (24, 25, 10, 1)$
335 : $P_{12142} = (13, 26, 10, 1)$

336 : $P_{12167} = (6, 27, 10, 1)$
337 : $P_{12208} = (15, 28, 10, 1)$
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744 : $P_{25969} = (16, 10, 24, 1)$
745 : $P_{25978} = (25, 10, 24, 1)$
746 : $P_{25992} = (7, 11, 24, 1)$
747 : $P_{26078} = (29, 13, 24, 1)$
748 : $P_{26082} = (1, 14, 24, 1)$
749 : $P_{26083} = (2, 14, 24, 1)$
750 : $P_{26122} = (9, 15, 24, 1)$
751 : $P_{26168} = (23, 16, 24, 1)$
752 : $P_{26193} = (16, 17, 24, 1)$
753 : $P_{26214} = (5, 18, 24, 1)$
754 : $P_{26258} = (17, 19, 24, 1)$
755 : $P_{26292} = (19, 20, 24, 1)$
756 : $P_{26317} = (12, 21, 24, 1)$
757 : $P_{26348} = (11, 22, 24, 1)$
758 : $P_{26356} = (19, 22, 24, 1)$
759 : $P_{26362} = (25, 22, 24, 1)$
760 : $P_{26376} = (7, 23, 24, 1)$
761 : $P_{26404} = (3, 24, 24, 1)$
762 : $P_{26414} = (13, 24, 24, 1)$
763 : $P_{26416} = (15, 24, 24, 1)$
764 : $P_{26464} = (31, 25, 24, 1)$
765 : $P_{26513} = (16, 27, 24, 1)$
766 : $P_{26536} = (7, 28, 24, 1)$
767 : $P_{26554} = (25, 28, 24, 1)$

768 : $P_{26560} = (31, 28, 24, 1)$
769 : $P_{26606} = (13, 30, 24, 1)$
770 : $P_{26715} = (26, 1, 25, 1)$
771 : $P_{26716} = (27, 1, 25, 1)$
772 : $P_{26754} = (1, 3, 25, 1)$
773 : $P_{26763} = (10, 3, 25, 1)$
774 : $P_{26786} = (1, 4, 25, 1)$
775 : $P_{26794} = (9, 4, 25, 1)$
776 : $P_{26822} = (5, 5, 25, 1)$
777 : $P_{26828} = (11, 5, 25, 1)$
778 : $P_{26832} = (15, 5, 25, 1)$
779 : $P_{26868} = (19, 6, 25, 1)$
780 : $P_{26882} = (1, 7, 25, 1)$
781 : $P_{26884} = (3, 7, 25, 1)$
782 : $P_{26950} = (5, 9, 25, 1)$
783 : $P_{26988} = (11, 10, 25, 1)$
784 : $P_{27012} = (3, 11, 25, 1)$
785 : $P_{27044} = (3, 12, 25, 1)$
786 : $P_{27046} = (5, 12, 25, 1)$
787 : $P_{27048} = (7, 12, 25, 1)$
788 : $P_{27093} = (20, 13, 25, 1)$
789 : $P_{27117} = (12, 14, 25, 1)$
790 : $P_{27127} = (22, 14, 25, 1)$
791 : $P_{27132} = (27, 14, 25, 1)$
792 : $P_{27148} = (11, 15, 25, 1)$
793 : $P_{27154} = (17, 15, 25, 1)$
794 : $P_{27164} = (27, 15, 25, 1)$
795 : $P_{27182} = (13, 16, 25, 1)$
796 : $P_{27226} = (25, 17, 25, 1)$
797 : $P_{27273} = (8, 19, 25, 1)$
798 : $P_{27307} = (10, 20, 25, 1)$
799 : $P_{27314} = (17, 20, 25, 1)$
800 : $P_{27323} = (26, 20, 25, 1)$
801 : $P_{27355} = (26, 21, 25, 1)$
802 : $P_{27373} = (12, 22, 25, 1)$
803 : $P_{27377} = (16, 22, 25, 1)$
804 : $P_{27390} = (29, 22, 25, 1)$
805 : $P_{27403} = (10, 23, 25, 1)$
806 : $P_{27437} = (12, 24, 25, 1)$
807 : $P_{27478} = (21, 25, 25, 1)$
808 : $P_{27512} = (23, 26, 25, 1)$
809 : $P_{27538} = (17, 27, 25, 1)$
810 : $P_{27752} = (7, 2, 26, 1)$
811 : $P_{27807} = (30, 3, 26, 1)$
812 : $P_{27874} = (1, 6, 26, 1)$
813 : $P_{27902} = (29, 6, 26, 1)$
814 : $P_{27920} = (15, 7, 26, 1)$
815 : $P_{27952} = (15, 8, 26, 1)$
816 : $P_{27981} = (12, 9, 26, 1)$
817 : $P_{27989} = (20, 9, 26, 1)$
818 : $P_{27994} = (25, 9, 26, 1)$
819 : $P_{28006} = (5, 10, 26, 1)$
820 : $P_{28019} = (18, 10, 26, 1)$
821 : $P_{28023} = (22, 10, 26, 1)$
822 : $P_{28054} = (21, 11, 26, 1)$
823 : $P_{28123} = (26, 13, 26, 1)$
824 : $P_{28176} = (15, 15, 26, 1)$
825 : $P_{28200} = (7, 16, 26, 1)$
826 : $P_{28264} = (7, 18, 26, 1)$
827 : $P_{28265} = (8, 18, 26, 1)$
828 : $P_{28271} = (14, 18, 26, 1)$
829 : $P_{28302} = (13, 19, 26, 1)$
830 : $P_{28325} = (4, 20, 26, 1)$
831 : $P_{28373} = (20, 21, 26, 1)$
832 : $P_{28388} = (3, 22, 26, 1)$
833 : $P_{28515} = (2, 26, 26, 1)$
834 : $P_{28597} = (20, 28, 26, 1)$
835 : $P_{28658} = (17, 30, 26, 1)$
836 : $P_{28755} = (18, 1, 27, 1)$
837 : $P_{28756} = (19, 1, 27, 1)$
838 : $P_{28864} = (31, 4, 27, 1)$
839 : $P_{28906} = (9, 6, 27, 1)$
840 : $P_{28936} = (7, 7, 27, 1)$
841 : $P_{29004} = (11, 9, 27, 1)$
842 : $P_{29061} = (4, 11, 27, 1)$
843 : $P_{29084} = (27, 11, 27, 1)$
844 : $P_{29087} = (30, 11, 27, 1)$
845 : $P_{29103} = (14, 12, 27, 1)$
846 : $P_{29111} = (22, 12, 27, 1)$
847 : $P_{29114} = (25, 12, 27, 1)$
848 : $P_{29131} = (10, 13, 27, 1)$
849 : $P_{29221} = (4, 16, 27, 1)$
850 : $P_{29283} = (2, 18, 27, 1)$
851 : $P_{29320} = (7, 19, 27, 1)$
852 : $P_{29352} = (7, 20, 27, 1)$
853 : $P_{29369} = (24, 20, 27, 1)$
854 : $P_{29375} = (30, 20, 27, 1)$
855 : $P_{29387} = (10, 21, 27, 1)$
856 : $P_{29468} = (27, 23, 27, 1)$
857 : $P_{29483} = (10, 24, 27, 1)$
858 : $P_{29553} = (16, 26, 27, 1)$
859 : $P_{29573} = (4, 27, 27, 1)$
860 : $P_{29628} = (27, 28, 27, 1)$
861 : $P_{29727} = (30, 31, 27, 1)$
862 : $P_{29814} = (21, 2, 28, 1)$
863 : $P_{29827} = (2, 3, 28, 1)$
864 : $P_{29863} = (6, 4, 28, 1)$
865 : $P_{29964} = (11, 7, 28, 1)$
866 : $P_{29976} = (23, 7, 28, 1)$
867 : $P_{29982} = (29, 7, 28, 1)$
868 : $P_{29986} = (1, 8, 28, 1)$
869 : $P_{29998} = (13, 8, 28, 1)$
870 : $P_{30048} = (31, 9, 28, 1)$
871 : $P_{30053} = (4, 10, 28, 1)$
872 : $P_{30159} = (14, 13, 28, 1)$
873 : $P_{30162} = (17, 13, 28, 1)$
874 : $P_{30175} = (30, 13, 28, 1)$
875 : $P_{30180} = (3, 14, 28, 1)$

876 : $P_{30235} = (26, 15, 28, 1)$
877 : $P_{30243} = (2, 16, 28, 1)$
878 : $P_{30328} = (23, 18, 28, 1)$
879 : $P_{30339} = (2, 19, 28, 1)$
880 : $P_{30366} = (29, 19, 28, 1)$
881 : $P_{30367} = (30, 19, 28, 1)$
882 : $P_{30383} = (14, 20, 28, 1)$
883 : $P_{30387} = (18, 20, 28, 1)$
884 : $P_{30398} = (29, 20, 28, 1)$
885 : $P_{30424} = (23, 21, 28, 1)$
886 : $P_{30437} = (4, 22, 28, 1)$
887 : $P_{30485} = (20, 23, 28, 1)$
888 : $P_{30502} = (5, 24, 28, 1)$
889 : $P_{30543} = (14, 25, 28, 1)$
890 : $P_{30572} = (11, 26, 28, 1)$
891 : $P_{30583} = (22, 26, 28, 1)$
892 : $P_{30589} = (28, 26, 28, 1)$
893 : $P_{30601} = (8, 27, 28, 1)$
894 : $P_{30629} = (4, 28, 28, 1)$
895 : $P_{30634} = (9, 28, 28, 1)$
896 : $P_{30637} = (12, 28, 28, 1)$
897 : $P_{30668} = (11, 29, 28, 1)$
898 : $P_{30719} = (30, 30, 28, 1)$
899 : $P_{30728} = (7, 31, 28, 1)$
900 : $P_{30801} = (16, 1, 29, 1)$
901 : $P_{30802} = (17, 1, 29, 1)$
902 : $P_{30821} = (4, 2, 29, 1)$
903 : $P_{30878} = (29, 3, 29, 1)$
904 : $P_{30906} = (25, 4, 29, 1)$
905 : $P_{30925} = (12, 5, 29, 1)$
906 : $P_{30936} = (23, 5, 29, 1)$
907 : $P_{30939} = (26, 5, 29, 1)$
908 : $P_{31014} = (5, 8, 29, 1)$
909 : $P_{31025} = (16, 8, 29, 1)$
910 : $P_{31029} = (20, 8, 29, 1)$
911 : $P_{31044} = (3, 9, 29, 1)$
912 : $P_{31057} = (16, 9, 29, 1)$
913 : $P_{31059} = (18, 9, 29, 1)$
914 : $P_{31138} = (1, 12, 29, 1)$
915 : $P_{31156} = (19, 12, 29, 1)$
916 : $P_{31231} = (30, 14, 29, 1)$
917 : $P_{31268} = (3, 16, 29, 1)$
918 : $P_{31318} = (21, 17, 29, 1)$
919 : $P_{31341} = (12, 18, 29, 1)$
920 : $P_{31379} = (18, 19, 29, 1)$
921 : $P_{31395} = (2, 20, 29, 1)$
922 : $P_{31398} = (5, 20, 29, 1)$
923 : $P_{31399} = (6, 20, 29, 1)$
924 : $P_{31444} = (19, 21, 29, 1)$
925 : $P_{31471} = (14, 22, 29, 1)$
926 : $P_{31490} = (1, 23, 29, 1)$
927 : $P_{31501} = (12, 23, 29, 1)$
928 : $P_{31538} = (17, 24, 29, 1)$
929 : $P_{31556} = (3, 25, 29, 1)$
930 : $P_{31570} = (17, 25, 29, 1)$
931 : $P_{31572} = (19, 25, 29, 1)$
932 : $P_{31594} = (9, 26, 29, 1)$
933 : $P_{31603} = (18, 26, 29, 1)$
934 : $P_{31611} = (26, 26, 29, 1)$
935 : $P_{31618} = (1, 27, 29, 1)$
936 : $P_{31648} = (31, 27, 29, 1)$
937 : $P_{31654} = (5, 28, 29, 1)$
938 : $P_{31705} = (24, 29, 29, 1)$
939 : $P_{31771} = (26, 31, 29, 1)$
940 : $P_{31891} = (18, 3, 30, 1)$
941 : $P_{31934} = (29, 4, 30, 1)$
942 : $P_{31939} = (2, 5, 30, 1)$
943 : $P_{31991} = (22, 6, 30, 1)$
944 : $P_{32154} = (25, 11, 30, 1)$
945 : $P_{32191} = (30, 12, 30, 1)$
946 : $P_{32200} = (7, 13, 30, 1)$
947 : $P_{32204} = (11, 13, 30, 1)$
948 : $P_{32206} = (13, 13, 30, 1)$
949 : $P_{32314} = (25, 16, 30, 1)$
950 : $P_{32373} = (20, 18, 30, 1)$
951 : $P_{32438} = (21, 20, 30, 1)$
952 : $P_{32490} = (9, 22, 30, 1)$
953 : $P_{32527} = (14, 23, 30, 1)$
954 : $P_{32553} = (8, 24, 30, 1)$
955 : $P_{32563} = (18, 24, 30, 1)$
956 : $P_{32572} = (27, 24, 30, 1)$
957 : $P_{32613} = (4, 26, 30, 1)$
958 : $P_{32633} = (24, 26, 30, 1)$
959 : $P_{32638} = (29, 26, 30, 1)$
960 : $P_{32651} = (10, 27, 30, 1)$
961 : $P_{32659} = (18, 27, 30, 1)$
962 : $P_{32666} = (25, 27, 30, 1)$
963 : $P_{32766} = (29, 30, 30, 1)$
964 : $P_{32857} = (24, 1, 31, 1)$
965 : $P_{32858} = (25, 1, 31, 1)$
966 : $P_{32882} = (17, 2, 31, 1)$
967 : $P_{32964} = (3, 5, 31, 1)$
968 : $P_{32989} = (28, 5, 31, 1)$
969 : $P_{32991} = (30, 5, 31, 1)$
970 : $P_{32999} = (6, 6, 31, 1)$
971 : $P_{33085} = (28, 8, 31, 1)$
972 : $P_{33116} = (27, 9, 31, 1)$
973 : $P_{33133} = (12, 10, 31, 1)$
974 : $P_{33142} = (21, 10, 31, 1)$
975 : $P_{33145} = (24, 10, 31, 1)$
976 : $P_{33154} = (1, 11, 31, 1)$
977 : $P_{33177} = (24, 11, 31, 1)$
978 : $P_{33196} = (11, 12, 31, 1)$
979 : $P_{33245} = (28, 13, 31, 1)$
980 : $P_{33299} = (18, 15, 31, 1)$
981 : $P_{33402} = (25, 18, 31, 1)$
982 : $P_{33434} = (25, 19, 31, 1)$
983 : $P_{33600} = (31, 24, 31, 1)$

984 : $P_{33603} = (2, 25, 31, 1)$
985 : $P_{33605} = (4, 25, 31, 1)$
986 : $P_{33608} = (7, 25, 31, 1)$
987 : $P_{33691} = (26, 27, 31, 1)$
988 : $P_{33720} = (23, 28, 31, 1)$
989 : $P_{33734} = (5, 29, 31, 1)$
990 : $P_{33771} = (10, 30, 31, 1)$
991 : $P_{33807} = (14, 31, 31, 1)$

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.