Rank-66763 over GF(32)

January 15, 2021

The equation

The equation of the surface is :

$$X_3^3 + X_0^2X_3 + X_0X_1^2 + X_0X_2^2 + X_0X_1X_2 = 0$$

(0, 0, 0, 1, 0, 0, 1, 1, 0, 0, 1, 0, 0, 0, 0, 0, 1, 0, 0, 0)
The point rank of the equation over GF(32) is -2112814043

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:

$0: \ P_{1059} = \mathbf{P}(1,0,0,1) = \mathbf{P}(1,0,0,1)$

The 1 Lines

The lines and their Pluecker coordinates are:

$$\ell_0 = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082368} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082368} = \mathbf{Pl}(0,0,0,0,0,1)_{34849}$$

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

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 : $P_1 = (0,1,0,0)$ lies on line ℓ_0
1 : $P_2 = (0,0,1,0)$ lies on line ℓ_0
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

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 : $P_0 = (1,0,0,0)$
1 : $P_{1059} = (1,0,0,1)$
2 : $P_{1149} = (27,2,0,1)$
3 : $P_{1153} = (31,2,0,1)$
4 : $P_{1188} = (2,4,0,1)$
5 : $P_{1204} = (18,4,0,1)$
6 : $P_{1334} = (20,8,0,1)$
7 : $P_{1344} = (30,8,0,1)$
8 : $P_{1353} = (7,9,0,1)$
9 : $P_{1358} = (12,9,0,1)$
10 : $P_{1397} = (19,10,0,1)$
11 : $P_{1407} = (29,10,0,1)$

$12: P_{1431} = (21, 11, 0, 1)$
$13: P_{1436} = (26, 11, 0, 1)$
$14: P_{1485} = (11, 13, 0, 1)$
$15: P_{1490} = (16, 13, 0, 1)$
$16: P_{1514} = (8, 14, 0, 1)$
$17: P_{1528} = (22, 14, 0, 1)$
$18: P_{1541} = (3, 15, 0, 1)$
$19: P_{1566} = (28, 15, 0, 1)$
$20: P_{1574} = (4, 16, 0, 1)$
$21: P_{1579} = (9, 16, 0, 1)$
$22: P_{1651} = (17, 18, 0, 1)$
$23: P_{1658} = (24, 18, 0, 1)$
$24: P_{1672} = (6, 19, 0, 1)$
$25: P_{1680} = (14, 19, 0, 1)$
$26: P_{1935} = (13, 27, 0, 1)$
$27: P_{1937} = (15, 27, 0, 1)$
$28: P_{2028} = (10, 30, 0, 1)$
$29: P_{2043} = (25, 30, 0, 1)$
$30: P_{2055} = (5, 31, 0, 1)$
$31: P_{2073} = (23, 31, 0, 1)$
$32: P_{2283} = (10, 6, 1, 1)$
$33: P_{2298} = (25, 6, 1, 1)$
$34: P_{2315} = (10, 7, 1, 1)$
$35: P_{2330} = (25, 7, 1, 1)$
$36: P_{2727} = (6, 20, 1, 1)$
$37: P_{2735} = (14, 20, 1, 1)$
$38: P_{2759} = (6, 21, 1, 1)$
$39: P_{2767} = (14, 21, 1, 1)$
$40: P_{2804} = (19, 22, 1, 1)$
$41: P_{2814} = (29, 22, 1, 1)$
$42: P_{2836} = (19, 23, 1, 1)$
$43: P_{2846} = (29, 23, 1, 1)$
$44: P_{2857} = (8, 24, 1, 1)$
$45: P_{2871} = (22, 24, 1, 1)$
$46: P_{2889} = (8, 25, 1, 1)$
$47: P_{2903} = (22, 25, 1, 1)$
$48: P_{2997} = (20, 28, 1, 1)$
$49: P_{3007} = (30, 28, 1, 1)$
$50: P_{3029} = (20, 29, 1, 1)$
$51: P_{3039} = (30, 29, 1, 1)$
$52: P_{3132} = (27, 0, 2, 1)$
$53: P_{3136} = (31, 0, 2, 1)$
$54: P_{3196} = (27, 2, 2, 1)$
$55: P_{3200} = (31, 2, 2, 1)$
$56: P_{3268} = (3, 5, 2, 1)$
$57: P_{3293} = (28, 5, 2, 1)$
$58: P_{3332} = (3, 7, 2, 1)$
$59: P_{3357} = (28, 7, 2, 1)$
$60: P_{3369} = (8, 8, 2, 1)$
$61: P_{3383} = (22, 8, 2, 1)$
$62: P_{3433} = (8, 10, 2, 1)$
$63: P_{3447} = (22, 10, 2, 1)$
$64: P_{3670} = (21, 17, 2, 1)$
$65: P_{3675} = (26, 17, 2, 1)$
$66: P_{3734} = (21, 19, 2, 1)$
$67: P_{3739} = (26, 19, 2, 1)$
$68: P_{4020} = (19, 28, 2, 1)$
$69: P_{4030} = (29, 28, 2, 1)$
$70: P_{4037} = (4, 29, 2, 1)$
$71: P_{4042} = (9, 29, 2, 1)$
$72: P_{4084} = (19, 30, 2, 1)$
$73: P_{4094} = (29, 30, 2, 1)$
$74: P_{4101} = (4, 31, 2, 1)$
$75: P_{4106} = (9, 31, 2, 1)$
$76: P_{4300} = (11, 5, 3, 1)$
$77: P_{4305} = (16, 5, 3, 1)$
$78: P_{4332} = (11, 6, 3, 1)$
$79: P_{4337} = (16, 6, 3, 1)$
$80: P_{4520} = (7, 12, 3, 1)$
$81: P_{4525} = (12, 12, 3, 1)$
$82: P_{4562} = (17, 13, 3, 1)$
$83: P_{4569} = (24, 13, 3, 1)$
$84: P_{4594} = (17, 14, 3, 1)$
$85: P_{4601} = (24, 14, 3, 1)$
$86: P_{4616} = (7, 15, 3, 1)$
$87: P_{4621} = (12, 15, 3, 1)$
$88: P_{4676} = (3, 17, 3, 1)$
$89: P_{4701} = (28, 17, 3, 1)$
$90: P_{4708} = (3, 18, 3, 1)$
$91: P_{4733} = (28, 18, 3, 1)$
$92: P_{4918} = (21, 24, 3, 1)$
$93: P_{4923} = (26, 24, 3, 1)$
$94: P_{4933} = (4, 25, 3, 1)$
$95: P_{4938} = (9, 25, 3, 1)$
$96: P_{4965} = (4, 26, 3, 1)$
$97: P_{4970} = (9, 26, 3, 1)$
$98: P_{5014} = (21, 27, 3, 1)$
$99: P_{5019} = (26, 27, 3, 1)$
$100: P_{5035} = (10, 28, 3, 1)$
$101: P_{5050} = (25, 28, 3, 1)$
$102: P_{5131} = (10, 31, 3, 1)$
$103: P_{5146} = (25, 31, 3, 1)$
$104: P_{5155} = (2, 0, 4, 1)$
$105: P_{5171} = (18, 0, 4, 1)$
$106: P_{5283} = (2, 4, 4, 1)$
$107: P_{5299} = (18, 4, 4, 1)$
$108: P_{5412} = (3, 8, 4, 1)$
$109: P_{5437} = (28, 8, 4, 1)$
$110: P_{5483} = (10, 10, 4, 1)$
$111: P_{5498} = (25, 10, 4, 1)$
$112: P_{5540} = (3, 12, 4, 1)$
$113: P_{5565} = (28, 12, 4, 1)$
$114: P_{5611} = (10, 14, 4, 1)$
$115: P_{5626} = (25, 14, 4, 1)$
$116: P_{5702} = (5, 17, 4, 1)$
$117: P_{5720} = (23, 17, 4, 1)$
$118: P_{5740} = (11, 18, 4, 1)$
$119: P_{5745} = (16, 18, 4, 1)$

120 : $P_{5769} = (8, 19, 4, 1)$
121 : $P_{5783} = (22, 19, 4, 1)$
122 : $P_{5830} = (5, 21, 4, 1)$
123 : $P_{5848} = (23, 21, 4, 1)$
124 : $P_{5868} = (11, 22, 4, 1)$
125 : $P_{5873} = (16, 22, 4, 1)$
126 : $P_{5897} = (8, 23, 4, 1)$
127 : $P_{5911} = (22, 23, 4, 1)$
128 : $P_{6244} = (3, 2, 5, 1)$
129 : $P_{6269} = (28, 2, 5, 1)$
130 : $P_{6284} = (11, 3, 5, 1)$
131 : $P_{6289} = (16, 3, 5, 1)$
132 : $P_{6380} = (11, 6, 5, 1)$
133 : $P_{6385} = (16, 6, 5, 1)$
134 : $P_{6404} = (3, 7, 5, 1)$
135 : $P_{6429} = (28, 7, 5, 1)$
136 : $P_{6470} = (5, 9, 5, 1)$
137 : $P_{6488} = (23, 9, 5, 1)$
138 : $P_{6566} = (5, 12, 5, 1)$
139 : $P_{6584} = (23, 12, 5, 1)$
140 : $P_{6734} = (13, 17, 5, 1)$
141 : $P_{6736} = (15, 17, 5, 1)$
142 : $P_{6759} = (6, 18, 5, 1)$
143 : $P_{6767} = (14, 18, 5, 1)$
144 : $P_{6830} = (13, 20, 5, 1)$
145 : $P_{6832} = (15, 20, 5, 1)$
146 : $P_{6919} = (6, 23, 5, 1)$
147 : $P_{6927} = (14, 23, 5, 1)$
148 : $P_{7030} = (21, 26, 5, 1)$
149 : $P_{7035} = (26, 26, 5, 1)$
150 : $P_{7048} = (7, 27, 5, 1)$
151 : $P_{7053} = (12, 27, 5, 1)$
152 : $P_{7144} = (7, 30, 5, 1)$
153 : $P_{7149} = (12, 30, 5, 1)$
154 : $P_{7190} = (21, 31, 5, 1)$
155 : $P_{7195} = (26, 31, 5, 1)$
156 : $P_{7243} = (10, 1, 6, 1)$
157 : $P_{7258} = (25, 1, 6, 1)$
158 : $P_{7308} = (11, 3, 6, 1)$
159 : $P_{7313} = (16, 3, 6, 1)$
160 : $P_{7372} = (11, 5, 6, 1)$
161 : $P_{7377} = (16, 5, 6, 1)$
162 : $P_{7435} = (10, 7, 6, 1)$
163 : $P_{7450} = (25, 7, 6, 1)$
164 : $P_{7464} = (7, 8, 6, 1)$
165 : $P_{7469} = (12, 8, 6, 1)$
166 : $P_{7580} = (27, 11, 6, 1)$
167 : $P_{7584} = (31, 11, 6, 1)$
168 : $P_{7644} = (27, 13, 6, 1)$
169 : $P_{7648} = (31, 13, 6, 1)$
170 : $P_{7656} = (7, 14, 6, 1)$
171 : $P_{7661} = (12, 14, 6, 1)$
172 : $P_{7785} = (8, 18, 6, 1)$
173 : $P_{7799} = (22, 18, 6, 1)$
174 : $P_{7849} = (8, 20, 6, 1)$
175 : $P_{7863} = (22, 20, 6, 1)$
176 : $P_{7986} = (17, 24, 6, 1)$
177 : $P_{7993} = (24, 24, 6, 1)$
178 : $P_{8020} = (19, 25, 6, 1)$
179 : $P_{8030} = (29, 25, 6, 1)$
180 : $P_{8178} = (17, 30, 6, 1)$
181 : $P_{8185} = (24, 30, 6, 1)$
182 : $P_{8212} = (19, 31, 6, 1)$
183 : $P_{8222} = (29, 31, 6, 1)$
184 : $P_{8267} = (10, 1, 7, 1)$
185 : $P_{8282} = (25, 1, 7, 1)$
186 : $P_{8292} = (3, 2, 7, 1)$
187 : $P_{8317} = (28, 2, 7, 1)$
188 : $P_{8388} = (3, 5, 7, 1)$
189 : $P_{8413} = (28, 5, 7, 1)$
190 : $P_{8427} = (10, 6, 7, 1)$
191 : $P_{8442} = (25, 6, 7, 1)$
192 : $P_{8494} = (13, 8, 7, 1)$
193 : $P_{8496} = (15, 8, 7, 1)$
194 : $P_{8540} = (27, 9, 7, 1)$
195 : $P_{8544} = (31, 9, 7, 1)$
196 : $P_{8551} = (6, 10, 7, 1)$
197 : $P_{8559} = (14, 10, 7, 1)$
198 : $P_{8596} = (19, 11, 7, 1)$
199 : $P_{8606} = (29, 11, 7, 1)$
200 : $P_{8628} = (19, 12, 7, 1)$
201 : $P_{8638} = (29, 12, 7, 1)$
202 : $P_{8647} = (6, 13, 7, 1)$
203 : $P_{8655} = (14, 13, 7, 1)$
204 : $P_{8700} = (27, 14, 7, 1)$
205 : $P_{8704} = (31, 14, 7, 1)$
206 : $P_{8718} = (13, 15, 7, 1)$
207 : $P_{8720} = (15, 15, 7, 1)$
208 : $P_{8805} = (4, 18, 7, 1)$
209 : $P_{8810} = (9, 18, 7, 1)$
210 : $P_{8840} = (7, 19, 7, 1)$
211 : $P_{8845} = (12, 19, 7, 1)$
212 : $P_{8872} = (7, 20, 7, 1)$
213 : $P_{8877} = (12, 20, 7, 1)$
214 : $P_{8901} = (4, 21, 7, 1)$
215 : $P_{8906} = (9, 21, 7, 1)$
216 : $P_{8995} = (2, 24, 7, 1)$
217 : $P_{9011} = (18, 24, 7, 1)$
218 : $P_{9219} = (2, 31, 7, 1)$
219 : $P_{9235} = (18, 31, 7, 1)$
220 : $P_{9269} = (20, 0, 8, 1)$
221 : $P_{9279} = (30, 0, 8, 1)$
222 : $P_{9321} = (8, 2, 8, 1)$
223 : $P_{9335} = (22, 2, 8, 1)$
224 : $P_{9380} = (3, 4, 8, 1)$
225 : $P_{9405} = (28, 4, 8, 1)$
226 : $P_{9448} = (7, 6, 8, 1)$
227 : $P_{9453} = (12, 6, 8, 1)$

228 : $P_{9486} = (13, 7, 8, 1)$
229 : $P_{9488} = (15, 7, 8, 1)$
230 : $P_{9525} = (20, 8, 8, 1)$
231 : $P_{9535} = (30, 8, 8, 1)$
232 : $P_{9577} = (8, 10, 8, 1)$
233 : $P_{9591} = (22, 10, 8, 1)$
234 : $P_{9636} = (3, 12, 8, 1)$
235 : $P_{9661} = (28, 12, 8, 1)$
236 : $P_{9704} = (7, 14, 8, 1)$
237 : $P_{9709} = (12, 14, 8, 1)$
238 : $P_{9742} = (13, 15, 8, 1)$
239 : $P_{9744} = (15, 15, 8, 1)$
240 : $P_{9771} = (10, 16, 8, 1)$
241 : $P_{9786} = (25, 16, 8, 1)$
242 : $P_{9876} = (19, 19, 8, 1)$
243 : $P_{9886} = (29, 19, 8, 1)$
244 : $P_{9942} = (21, 21, 8, 1)$
245 : $P_{9947} = (26, 21, 8, 1)$
246 : $P_{9958} = (5, 22, 8, 1)$
247 : $P_{9976} = (23, 22, 8, 1)$
248 : $P_{9996} = (11, 23, 8, 1)$
249 : $P_{10001} = (16, 23, 8, 1)$
250 : $P_{10027} = (10, 24, 8, 1)$
251 : $P_{10042} = (25, 24, 8, 1)$
252 : $P_{10132} = (19, 27, 8, 1)$
253 : $P_{10142} = (29, 27, 8, 1)$
254 : $P_{10198} = (21, 29, 8, 1)$
255 : $P_{10203} = (26, 29, 8, 1)$
256 : $P_{10214} = (5, 30, 8, 1)$
257 : $P_{10232} = (23, 30, 8, 1)$
258 : $P_{10252} = (11, 31, 8, 1)$
259 : $P_{10257} = (16, 31, 8, 1)$
260 : $P_{10280} = (7, 0, 9, 1)$
261 : $P_{10285} = (12, 0, 9, 1)$
262 : $P_{10438} = (5, 5, 9, 1)$
263 : $P_{10456} = (23, 5, 9, 1)$
264 : $P_{10524} = (27, 7, 9, 1)$
265 : $P_{10528} = (31, 7, 9, 1)$
266 : $P_{10568} = (7, 9, 9, 1)$
267 : $P_{10573} = (12, 9, 9, 1)$
268 : $P_{10662} = (5, 12, 9, 1)$
269 : $P_{10680} = (23, 12, 9, 1)$
270 : $P_{10748} = (27, 14, 9, 1)$
271 : $P_{10752} = (31, 14, 9, 1)$
272 : $P_{10798} = (13, 16, 9, 1)$
273 : $P_{10800} = (15, 16, 9, 1)$
274 : $P_{10837} = (20, 17, 9, 1)$
275 : $P_{10847} = (30, 17, 9, 1)$
276 : $P_{10923} = (10, 20, 9, 1)$
277 : $P_{10938} = (25, 20, 9, 1)$
278 : $P_{10956} = (11, 21, 9, 1)$
279 : $P_{10961} = (16, 21, 9, 1)$
280 : $P_{11013} = (4, 23, 9, 1)$
281 : $P_{11018} = (9, 23, 9, 1)$
282 : $P_{11061} = (20, 24, 9, 1)$
283 : $P_{11071} = (30, 24, 9, 1)$
284 : $P_{11086} = (13, 25, 9, 1)$
285 : $P_{11088} = (15, 25, 9, 1)$
286 : $P_{11180} = (11, 28, 9, 1)$
287 : $P_{11185} = (16, 28, 9, 1)$
288 : $P_{11211} = (10, 29, 9, 1)$
289 : $P_{11226} = (25, 29, 9, 1)$
290 : $P_{11237} = (4, 30, 9, 1)$
291 : $P_{11242} = (9, 30, 9, 1)$
292 : $P_{11316} = (19, 0, 10, 1)$
293 : $P_{11326} = (29, 0, 10, 1)$
294 : $P_{11369} = (8, 2, 10, 1)$
295 : $P_{11383} = (22, 2, 10, 1)$
296 : $P_{11435} = (10, 4, 10, 1)$
297 : $P_{11450} = (25, 4, 10, 1)$
298 : $P_{11527} = (6, 7, 10, 1)$
299 : $P_{11535} = (14, 7, 10, 1)$
300 : $P_{11561} = (8, 8, 10, 1)$
301 : $P_{11575} = (22, 8, 10, 1)$
302 : $P_{11636} = (19, 10, 10, 1)$
303 : $P_{11646} = (29, 10, 10, 1)$
304 : $P_{11719} = (6, 13, 10, 1)$
305 : $P_{11727} = (14, 13, 10, 1)$
306 : $P_{11755} = (10, 14, 10, 1)$
307 : $P_{11770} = (25, 14, 10, 1)$
308 : $P_{11814} = (5, 16, 10, 1)$
309 : $P_{11832} = (23, 16, 10, 1)$
310 : $P_{11886} = (13, 18, 10, 1)$
311 : $P_{11888} = (15, 18, 10, 1)$
312 : $P_{11922} = (17, 19, 10, 1)$
313 : $P_{11929} = (24, 19, 10, 1)$
314 : $P_{11958} = (21, 20, 10, 1)$
315 : $P_{11963} = (26, 20, 10, 1)$
316 : $P_{11996} = (27, 21, 10, 1)$
317 : $P_{12000} = (31, 21, 10, 1)$
318 : $P_{12004} = (3, 22, 10, 1)$
319 : $P_{12029} = (28, 22, 10, 1)$
320 : $P_{12078} = (13, 24, 10, 1)$
321 : $P_{12080} = (15, 24, 10, 1)$
322 : $P_{12114} = (17, 25, 10, 1)$
323 : $P_{12121} = (24, 25, 10, 1)$
324 : $P_{12134} = (5, 26, 10, 1)$
325 : $P_{12152} = (23, 26, 10, 1)$
326 : $P_{12196} = (3, 28, 10, 1)$
327 : $P_{12221} = (28, 28, 10, 1)$
328 : $P_{12278} = (21, 30, 10, 1)$
329 : $P_{12283} = (26, 30, 10, 1)$
330 : $P_{12316} = (27, 31, 10, 1)$
331 : $P_{12320} = (31, 31, 10, 1)$
332 : $P_{12342} = (21, 0, 11, 1)$
333 : $P_{12347} = (26, 0, 11, 1)$
334 : $P_{12540} = (27, 6, 11, 1)$
335 : $P_{12544} = (31, 6, 11, 1)$

336 : $P_{12564} = (19, 7, 11, 1)$
337 : $P_{12574} = (29, 7, 11, 1)$
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744 : $P_{25842} = (17, 6, 24, 1)$
745 : $P_{25849} = (24, 6, 24, 1)$
746 : $P_{25859} = (2, 7, 24, 1)$
747 : $P_{25875} = (18, 7, 24, 1)$
748 : $P_{25899} = (10, 8, 24, 1)$
749 : $P_{25914} = (25, 8, 24, 1)$
750 : $P_{25941} = (20, 9, 24, 1)$
751 : $P_{25951} = (30, 9, 24, 1)$
752 : $P_{25966} = (13, 10, 24, 1)$
753 : $P_{25968} = (15, 10, 24, 1)$
754 : $P_{25996} = (11, 11, 24, 1)$
755 : $P_{26001} = (16, 11, 24, 1)$
756 : $P_{26140} = (27, 15, 24, 1)$
757 : $P_{26144} = (31, 15, 24, 1)$
758 : $P_{26155} = (10, 16, 24, 1)$
759 : $P_{26170} = (25, 16, 24, 1)$
760 : $P_{26197} = (20, 17, 24, 1)$
761 : $P_{26207} = (30, 17, 24, 1)$
762 : $P_{26222} = (13, 18, 24, 1)$
763 : $P_{26224} = (15, 18, 24, 1)$
764 : $P_{26252} = (11, 19, 24, 1)$
765 : $P_{26257} = (16, 19, 24, 1)$
766 : $P_{26396} = (27, 23, 24, 1)$
767 : $P_{26400} = (31, 23, 24, 1)$

$768: P_{26441} = (8, 25, 24, 1)$
$769: P_{26455} = (22, 25, 24, 1)$
$770: P_{26518} = (21, 27, 24, 1)$
$771: P_{26523} = (26, 27, 24, 1)$
$772: P_{26610} = (17, 30, 24, 1)$
$773: P_{26617} = (24, 30, 24, 1)$
$774: P_{26627} = (2, 31, 24, 1)$
$775: P_{26643} = (18, 31, 24, 1)$
$776: P_{26697} = (8, 1, 25, 1)$
$777: P_{26711} = (22, 1, 25, 1)$
$778: P_{26757} = (4, 3, 25, 1)$
$779: P_{26762} = (9, 3, 25, 1)$
$780: P_{26868} = (19, 6, 25, 1)$
$781: P_{26878} = (29, 6, 25, 1)$
$782: P_{26958} = (13, 9, 25, 1)$
$783: P_{26960} = (15, 9, 25, 1)$
$784: P_{26994} = (17, 10, 25, 1)$
$785: P_{27001} = (24, 10, 25, 1)$
$786: P_{27110} = (5, 14, 25, 1)$
$787: P_{27128} = (23, 14, 25, 1)$
$788: P_{27157} = (20, 15, 25, 1)$
$789: P_{27167} = (30, 15, 25, 1)$
$790: P_{27182} = (13, 16, 25, 1)$
$791: P_{27184} = (15, 16, 25, 1)$
$792: P_{27282} = (17, 19, 25, 1)$
$793: P_{27289} = (24, 19, 25, 1)$
$794: P_{27381} = (20, 22, 25, 1)$
$795: P_{27391} = (30, 22, 25, 1)$
$796: P_{27398} = (5, 23, 25, 1)$
$797: P_{27416} = (23, 23, 25, 1)$
$798: P_{27433} = (8, 24, 25, 1)$
$799: P_{27447} = (22, 24, 25, 1)$
$800: P_{27493} = (4, 26, 25, 1)$
$801: P_{27498} = (9, 26, 25, 1)$
$802: P_{27668} = (19, 31, 25, 1)$
$803: P_{27678} = (29, 31, 25, 1)$
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$805: P_{27786} = (9, 3, 26, 1)$
$806: P_{27862} = (21, 5, 26, 1)$
$807: P_{27867} = (26, 5, 26, 1)$
$808: P_{28006} = (5, 10, 26, 1)$
$809: P_{28024} = (23, 10, 26, 1)$
$810: P_{28050} = (17, 11, 26, 1)$
$811: P_{28057} = (24, 11, 26, 1)$
$812: P_{28067} = (2, 12, 26, 1)$
$813: P_{28083} = (18, 12, 26, 1)$
$814: P_{28104} = (7, 13, 26, 1)$
$815: P_{28109} = (12, 13, 26, 1)$
$816: P_{28169} = (8, 15, 26, 1)$
$817: P_{28183} = (22, 15, 26, 1)$
$818: P_{28198} = (5, 16, 26, 1)$
$819: P_{28216} = (23, 16, 26, 1)$
$820: P_{28242} = (17, 17, 26, 1)$
$821: P_{28249} = (24, 17, 26, 1)$
$822: P_{28361} = (8, 21, 26, 1)$
$823: P_{28375} = (22, 21, 26, 1)$
$824: P_{28387} = (2, 22, 26, 1)$
$825: P_{28403} = (18, 22, 26, 1)$
$826: P_{28424} = (7, 23, 26, 1)$
$827: P_{28429} = (12, 23, 26, 1)$
$828: P_{28485} = (4, 25, 26, 1)$
$829: P_{28490} = (9, 25, 26, 1)$
$830: P_{28694} = (21, 31, 26, 1)$
$831: P_{28699} = (26, 31, 26, 1)$
$832: P_{28718} = (13, 0, 27, 1)$
$833: P_{28720} = (15, 0, 27, 1)$
$834: P_{28822} = (21, 3, 27, 1)$
$835: P_{28827} = (26, 3, 27, 1)$
$836: P_{28872} = (7, 5, 27, 1)$
$837: P_{28877} = (12, 5, 27, 1)$
$838: P_{28980} = (19, 8, 27, 1)$
$839: P_{28990} = (29, 8, 27, 1)$
$840: P_{29173} = (20, 14, 27, 1)$
$841: P_{29183} = (30, 14, 27, 1)$
$842: P_{29187} = (2, 15, 27, 1)$
$843: P_{29203} = (18, 15, 27, 1)$
$844: P_{29332} = (19, 19, 27, 1)$
$845: P_{29342} = (29, 19, 27, 1)$
$846: P_{29347} = (2, 20, 27, 1)$
$847: P_{29363} = (18, 20, 27, 1)$
$848: P_{29397} = (20, 21, 27, 1)$
$849: P_{29407} = (30, 21, 27, 1)$
$850: P_{29494} = (21, 24, 27, 1)$
$851: P_{29499} = (26, 24, 27, 1)$
$852: P_{29582} = (13, 27, 27, 1)$
$853: P_{29584} = (15, 27, 27, 1)$
$854: P_{29672} = (7, 30, 27, 1)$
$855: P_{29677} = (12, 30, 27, 1)$
$856: P_{29781} = (20, 1, 28, 1)$
$857: P_{29791} = (30, 1, 28, 1)$
$858: P_{29812} = (19, 2, 28, 1)$
$859: P_{29822} = (29, 2, 28, 1)$
$860: P_{29835} = (10, 3, 28, 1)$
$861: P_{29850} = (25, 3, 28, 1)$
$862: P_{30028} = (11, 9, 28, 1)$
$863: P_{30033} = (16, 9, 28, 1)$
$864: P_{30052} = (3, 10, 28, 1)$
$865: P_{30077} = (28, 10, 28, 1)$
$866: P_{30094} = (13, 11, 28, 1)$
$867: P_{30096} = (15, 11, 28, 1)$
$868: P_{30130} = (17, 12, 28, 1)$
$869: P_{30137} = (24, 12, 28, 1)$
$870: P_{30179} = (2, 14, 28, 1)$
$871: P_{30195} = (18, 14, 28, 1)$
$872: P_{30213} = (4, 15, 28, 1)$
$873: P_{30218} = (9, 15, 28, 1)$
$874: P_{30258} = (17, 16, 28, 1)$
$875: P_{30265} = (24, 16, 28, 1)$

876 : $P_{30307} = (2, 18, 28, 1)$
877 : $P_{30323} = (18, 18, 28, 1)$
878 : $P_{30341} = (4, 19, 28, 1)$
879 : $P_{30346} = (9, 19, 28, 1)$
880 : $P_{30412} = (11, 21, 28, 1)$
881 : $P_{30417} = (16, 21, 28, 1)$
882 : $P_{30436} = (3, 22, 28, 1)$
883 : $P_{30461} = (28, 22, 28, 1)$
884 : $P_{30478} = (13, 23, 28, 1)$
885 : $P_{30480} = (15, 23, 28, 1)$
886 : $P_{30677} = (20, 29, 28, 1)$
887 : $P_{30687} = (30, 29, 28, 1)$
888 : $P_{30708} = (19, 30, 28, 1)$
889 : $P_{30718} = (29, 30, 28, 1)$
890 : $P_{30731} = (10, 31, 28, 1)$
891 : $P_{30746} = (25, 31, 28, 1)$
892 : $P_{30805} = (20, 1, 29, 1)$
893 : $P_{30815} = (30, 1, 29, 1)$
894 : $P_{30821} = (4, 2, 29, 1)$
895 : $P_{30826} = (9, 2, 29, 1)$
896 : $P_{31030} = (21, 8, 29, 1)$
897 : $P_{31035} = (26, 8, 29, 1)$
898 : $P_{31051} = (10, 9, 29, 1)$
899 : $P_{31066} = (25, 9, 29, 1)$
900 : $P_{31111} = (6, 11, 29, 1)$
901 : $P_{31119} = (14, 11, 29, 1)$
902 : $P_{31164} = (27, 12, 29, 1)$
903 : $P_{31168} = (31, 12, 29, 1)$
904 : $P_{31204} = (3, 14, 29, 1)$
905 : $P_{31229} = (28, 14, 29, 1)$
906 : $P_{31324} = (27, 17, 29, 1)$
907 : $P_{31328} = (31, 17, 29, 1)$
908 : $P_{31364} = (3, 19, 29, 1)$
909 : $P_{31389} = (28, 19, 29, 1)$
910 : $P_{31403} = (10, 20, 29, 1)$
911 : $P_{31418} = (25, 20, 29, 1)$
912 : $P_{31446} = (21, 21, 29, 1)$
913 : $P_{31451} = (26, 21, 29, 1)$
914 : $P_{31463} = (6, 22, 29, 1)$
915 : $P_{31471} = (14, 22, 29, 1)$
916 : $P_{31669} = (20, 28, 29, 1)$
917 : $P_{31679} = (30, 28, 29, 1)$
918 : $P_{31749} = (4, 31, 29, 1)$
919 : $P_{31754} = (9, 31, 29, 1)$
920 : $P_{31787} = (10, 0, 30, 1)$
921 : $P_{31802} = (25, 0, 30, 1)$
922 : $P_{31860} = (19, 2, 30, 1)$
923 : $P_{31870} = (29, 2, 30, 1)$
924 : $P_{31944} = (7, 5, 30, 1)$
925 : $P_{31949} = (12, 5, 30, 1)$
926 : $P_{31986} = (17, 6, 30, 1)$
927 : $P_{31993} = (24, 6, 30, 1)$
928 : $P_{32038} = (5, 8, 30, 1)$
929 : $P_{32056} = (23, 8, 30, 1)$
930 : $P_{32069} = (4, 9, 30, 1)$
931 : $P_{32074} = (9, 9, 30, 1)$
932 : $P_{32118} = (21, 10, 30, 1)$
933 : $P_{32123} = (26, 10, 30, 1)$
934 : $P_{32131} = (2, 11, 30, 1)$
935 : $P_{32147} = (18, 11, 30, 1)$
936 : $P_{32213} = (20, 13, 30, 1)$
937 : $P_{32223} = (30, 13, 30, 1)$
938 : $P_{32231} = (6, 14, 30, 1)$
939 : $P_{32239} = (14, 14, 30, 1)$
940 : $P_{32295} = (6, 16, 30, 1)$
941 : $P_{32303} = (14, 16, 30, 1)$
942 : $P_{32405} = (20, 19, 30, 1)$
943 : $P_{32415} = (30, 19, 30, 1)$
944 : $P_{32438} = (21, 20, 30, 1)$
945 : $P_{32443} = (26, 20, 30, 1)$
946 : $P_{32451} = (2, 21, 30, 1)$
947 : $P_{32467} = (18, 21, 30, 1)$
948 : $P_{32486} = (5, 22, 30, 1)$
949 : $P_{32504} = (23, 22, 30, 1)$
950 : $P_{32517} = (4, 23, 30, 1)$
951 : $P_{32522} = (9, 23, 30, 1)$
952 : $P_{32562} = (17, 24, 30, 1)$
953 : $P_{32569} = (24, 24, 30, 1)$
954 : $P_{32648} = (7, 27, 30, 1)$
955 : $P_{32653} = (12, 27, 30, 1)$
956 : $P_{32692} = (19, 28, 30, 1)$
957 : $P_{32702} = (29, 28, 30, 1)$
958 : $P_{32747} = (10, 30, 30, 1)$
959 : $P_{32762} = (25, 30, 30, 1)$
960 : $P_{32806} = (5, 0, 31, 1)$
961 : $P_{32824} = (23, 0, 31, 1)$
962 : $P_{32869} = (4, 2, 31, 1)$
963 : $P_{32874} = (9, 2, 31, 1)$
964 : $P_{32907} = (10, 3, 31, 1)$
965 : $P_{32922} = (25, 3, 31, 1)$
966 : $P_{32982} = (21, 5, 31, 1)$
967 : $P_{32987} = (26, 5, 31, 1)$
968 : $P_{33012} = (19, 6, 31, 1)$
969 : $P_{33022} = (29, 6, 31, 1)$
970 : $P_{33027} = (2, 7, 31, 1)$
971 : $P_{33043} = (18, 7, 31, 1)$
972 : $P_{33068} = (11, 8, 31, 1)$
973 : $P_{33073} = (16, 8, 31, 1)$
974 : $P_{33148} = (27, 10, 31, 1)$
975 : $P_{33152} = (31, 10, 31, 1)$
976 : $P_{33500} = (27, 21, 31, 1)$
977 : $P_{33504} = (31, 21, 31, 1)$
978 : $P_{33548} = (11, 23, 31, 1)$
979 : $P_{33553} = (16, 23, 31, 1)$
980 : $P_{33571} = (2, 24, 31, 1)$
981 : $P_{33587} = (18, 24, 31, 1)$
982 : $P_{33620} = (19, 25, 31, 1)$
983 : $P_{33630} = (29, 25, 31, 1)$

984 : $P_{33654} = (21, 26, 31, 1)$
985 : $P_{33659} = (26, 26, 31, 1)$
986 : $P_{33707} = (10, 28, 31, 1)$
987 : $P_{33722} = (25, 28, 31, 1)$
988 : $P_{33733} = (4, 29, 31, 1)$
989 : $P_{33738} = (9, 29, 31, 1)$
990 : $P_{33798} = (5, 31, 31, 1)$
991 : $P_{33816} = (23, 31, 31, 1)$

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.