Rank-65760 over GF(32)

January 15, 2021

The equation

The equation of the surface is :

$$X_0^3 + X_2^3 + X_3^3 + X_0^2X_1 + X_0^2X_3 + X_0X_1^2 + X_0X_1X_2 = 0$$

(1, 0, 1, 1, 1, 0, 1, 1, 0, 0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0)
The point rank of the equation over GF(32) is -2111764442

General information

Number of lines	1
Number of points	1025
Number of singular points	0
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 0 singular points:

The 1 Lines

The lines and their Pluecker coordinates are:

$$\ell_0 = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1082369} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1082369} = \mathbf{Pl}(0,0,0,1,0,1)_{36865}$$

Rank of lines: (1082369)
Rank of points on Klein quadric: (36865)

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 : $P_{2082} = (0,0,1,1)$ lies on line ℓ_0
2 : $P_{2114} = (0,1,1,1)$ lies on line ℓ_0
3 : $P_{2145} = (0,2,1,1)$ lies on line ℓ_0
4 : $P_{2177} = (0,3,1,1)$ lies on line ℓ_0
5 : $P_{2209} = (0,4,1,1)$ lies on line ℓ_0
6 : $P_{2241} = (0,5,1,1)$ lies on line ℓ_0
7 : $P_{2273} = (0,6,1,1)$ lies on line ℓ_0
8 : $P_{2305} = (0,7,1,1)$ lies on line ℓ_0
9 : $P_{2337} = (0,8,1,1)$ lies on line ℓ_0
10 : $P_{2369} = (0,9,1,1)$ lies on line ℓ_0
11 : $P_{2401} = (0,10,1,1)$ lies on line ℓ_0
12 : $P_{2433} = (0,11,1,1)$ lies on line ℓ_0
13 : $P_{2465} = (0,12,1,1)$ lies on line ℓ_0
14 : $P_{2497} = (0,13,1,1)$ lies on line ℓ_0
15 : $P_{2529} = (0,14,1,1)$ lies on line ℓ_0
16 : $P_{2561} = (0,15,1,1)$ lies on line ℓ_0
17 : $P_{2593} = (0,16,1,1)$ lies on line ℓ_0
18 : $P_{2625} = (0,17,1,1)$ lies on line ℓ_0
19 : $P_{2657} = (0,18,1,1)$ lies on line ℓ_0
20 : $P_{2689} = (0,19,1,1)$ lies on line ℓ_0
21 : $P_{2721} = (0,20,1,1)$ lies on line ℓ_0
22 : $P_{2753} = (0,21,1,1)$ lies on line ℓ_0
23 : $P_{2785} = (0,22,1,1)$ lies on line ℓ_0
24 : $P_{2817} = (0,23,1,1)$ lies on line ℓ_0
25 : $P_{2849} = (0,24,1,1)$ lies on line ℓ_0
26 : $P_{2881} = (0,25,1,1)$ lies on line ℓ_0
27 : $P_{2913} = (0,26,1,1)$ lies on line ℓ_0
28 : $P_{2945} = (0,27,1,1)$ lies on line ℓ_0
29 : $P_{2977} = (0,28,1,1)$ lies on line ℓ_0
30 : $P_{3009} = (0,29,1,1)$ lies on line ℓ_0
31 : $P_{3041} = (0,30,1,1)$ lies on line ℓ_0
32 : $P_{3073} = (0,31,1,1)$ 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 : $P_{36} = (1,0,1,0)$
1 : $P_{272} = (13,7,1,0)$
2 : $P_{326} = (3,9,1,0)$
3 : $P_{339} = (16,9,1,0)$
4 : $P_{349} = (26,9,1,0)$
5 : $P_{390} = (3,11,1,0)$
6 : $P_{392} = (5,11,1,0)$
7 : $P_{400} = (13,11,1,0)$
8 : $P_{520} = (5,15,1,0)$
9 : $P_{532} = (17,15,1,0)$
10 : $P_{542} = (27,15,1,0)$
11 : $P_{615} = (4,18,1,0)$
12 : $P_{623} = (12,18,1,0)$
13 : $P_{637} = (26,18,1,0)$
14 : $P_{734} = (27,21,1,0)$
15 : $P_{775} = (4,23,1,0)$
16 : $P_{819} = (16,24,1,0)$
17 : $P_{933} = (2,28,1,0)$
18 : $P_{1029} = (2,31,1,0)$
19 : $P_{1039} = (12,31,1,0)$

$20: P_{1044} = (17, 31, 1, 0)$
$21: P_{1130} = (8, 2, 0, 1)$
$22: P_{1166} = (12, 3, 0, 1)$
$23: P_{1196} = (10, 4, 0, 1)$
$24: P_{1244} = (26, 5, 0, 1)$
$25: P_{1274} = (24, 6, 0, 1)$
$26: P_{1297} = (15, 7, 0, 1)$
$27: P_{1329} = (15, 8, 0, 1)$
$28: P_{1333} = (19, 8, 0, 1)$
$29: P_{1335} = (21, 8, 0, 1)$
$30: P_{1351} = (5, 9, 0, 1)$
$31: P_{1386} = (8, 10, 0, 1)$
$32: P_{1406} = (28, 10, 0, 1)$
$33: P_{1409} = (31, 10, 0, 1)$
$34: P_{1427} = (17, 11, 0, 1)$
$35: P_{1447} = (5, 12, 0, 1)$
$36: P_{1504} = (30, 13, 0, 1)$
$37: P_{1516} = (10, 14, 0, 1)$
$38: P_{1524} = (18, 14, 0, 1)$
$39: P_{1529} = (23, 14, 0, 1)$
$40: P_{1550} = (12, 15, 0, 1)$
$41: P_{1584} = (14, 16, 0, 1)$
$42: P_{1605} = (3, 17, 0, 1)$
$43: P_{1637} = (3, 18, 0, 1)$
$44: P_{1673} = (7, 19, 0, 1)$
$45: P_{1677} = (11, 19, 0, 1)$
$46: P_{1696} = (30, 19, 0, 1)$
$47: P_{1705} = (7, 20, 0, 1)$
$48: P_{1761} = (31, 21, 0, 1)$
$49: P_{1790} = (28, 22, 0, 1)$
$50: P_{1803} = (9, 23, 0, 1)$
$51: P_{1837} = (11, 24, 0, 1)$
$52: P_{1881} = (23, 25, 0, 1)$
$53: P_{1907} = (17, 26, 0, 1)$
$54: P_{1941} = (19, 27, 0, 1)$
$55: P_{1972} = (18, 28, 0, 1)$
$56: P_{2007} = (21, 29, 0, 1)$
$57: P_{2027} = (9, 30, 0, 1)$
$58: P_{2032} = (14, 30, 0, 1)$
$59: P_{2042} = (24, 30, 0, 1)$
$60: P_{2076} = (26, 31, 0, 1)$
$61: P_{2083} = (1, 0, 1, 1)$
$62: P_{2166} = (21, 2, 1, 1)$
$63: P_{2167} = (22, 2, 1, 1)$
$64: P_{2234} = (25, 4, 1, 1)$
$65: P_{2237} = (28, 4, 1, 1)$
$66: P_{2289} = (16, 6, 1, 1)$
$67: P_{2296} = (23, 6, 1, 1)$
$68: P_{2332} = (27, 7, 1, 1)$
$69: P_{2334} = (29, 7, 1, 1)$
$70: P_{2517} = (20, 13, 1, 1)$
$71: P_{2521} = (24, 13, 1, 1)$
$72: P_{2599} = (6, 16, 1, 1)$
$73: P_{2616} = (23, 16, 1, 1)$
$74: P_{2734} = (13, 20, 1, 1)$
$75: P_{2745} = (24, 20, 1, 1)$
$76: P_{2755} = (2, 21, 1, 1)$
$77: P_{2775} = (22, 21, 1, 1)$
$78: P_{2787} = (2, 22, 1, 1)$
$79: P_{2806} = (21, 22, 1, 1)$
$80: P_{2823} = (6, 23, 1, 1)$
$81: P_{2833} = (16, 23, 1, 1)$
$82: P_{2862} = (13, 24, 1, 1)$
$83: P_{2869} = (20, 24, 1, 1)$
$84: P_{2885} = (4, 25, 1, 1)$
$85: P_{2909} = (28, 25, 1, 1)$
$86: P_{2952} = (7, 27, 1, 1)$
$87: P_{2974} = (29, 27, 1, 1)$
$88: P_{2981} = (4, 28, 1, 1)$
$89: P_{3002} = (25, 28, 1, 1)$
$90: P_{3016} = (7, 29, 1, 1)$
$91: P_{3036} = (27, 29, 1, 1)$
$92: P_{3116} = (11, 0, 2, 1)$
$93: P_{3150} = (13, 1, 2, 1)$
$94: P_{3174} = (5, 2, 2, 1)$
$95: P_{3235} = (2, 4, 2, 1)$
$96: P_{3270} = (5, 5, 2, 1)$
$97: P_{3328} = (31, 6, 2, 1)$
$98: P_{3345} = (16, 7, 2, 1)$
$99: P_{3365} = (4, 8, 2, 1)$
$100: P_{3404} = (11, 9, 2, 1)$
$101: P_{3413} = (20, 9, 2, 1)$
$102: P_{3416} = (23, 9, 2, 1)$
$103: P_{3431} = (6, 10, 2, 1)$
$104: P_{3444} = (19, 10, 2, 1)$
$105: P_{3455} = (30, 10, 2, 1)$
$106: P_{3550} = (29, 13, 2, 1)$
$107: P_{3557} = (4, 14, 2, 1)$
$108: P_{3559} = (6, 14, 2, 1)$
$109: P_{3566} = (13, 14, 2, 1)$
$110: P_{3607} = (22, 15, 2, 1)$
$111: P_{3710} = (29, 18, 2, 1)$
$112: P_{3793} = (16, 21, 2, 1)$
$113: P_{3839} = (30, 22, 2, 1)$
$114: P_{3853} = (12, 23, 2, 1)$
$115: P_{3917} = (12, 25, 2, 1)$
$116: P_{3988} = (19, 27, 2, 1)$
$117: P_{3991} = (22, 27, 2, 1)$
$118: P_{4000} = (31, 27, 2, 1)$
$119: P_{4024} = (23, 28, 2, 1)$
$120: P_{4117} = (20, 31, 2, 1)$
$121: P_{4134} = (5, 0, 3, 1)$
$122: P_{4208} = (15, 2, 3, 1)$
$123: P_{4233} = (8, 3, 3, 1)$
$124: P_{4248} = (23, 3, 3, 1)$
$125: P_{4254} = (29, 3, 3, 1)$
$126: P_{4287} = (30, 4, 3, 1)$
$127: P_{4326} = (5, 6, 3, 1)$

$128: P_{4393} = (8, 8, 3, 1)$
$129: P_{4469} = (20, 10, 3, 1)$
$130: P_{4502} = (21, 11, 3, 1)$
$131: P_{4529} = (16, 12, 3, 1)$
$132: P_{4572} = (27, 13, 3, 1)$
$133: P_{4592} = (15, 14, 3, 1)$
$134: P_{4594} = (17, 14, 3, 1)$
$135: P_{4612} = (3, 15, 3, 1)$
$136: P_{4751} = (14, 19, 3, 1)$
$137: P_{4828} = (27, 21, 3, 1)$
$138: P_{4843} = (10, 22, 3, 1)$
$139: P_{4888} = (23, 23, 3, 1)$
$140: P_{4901} = (4, 24, 3, 1)$
$141: P_{4959} = (30, 25, 3, 1)$
$142: P_{5042} = (17, 28, 3, 1)$
$143: P_{5077} = (20, 29, 3, 1)$
$144: P_{5078} = (21, 29, 3, 1)$
$145: P_{5086} = (29, 29, 3, 1)$
$146: P_{5103} = (14, 30, 3, 1)$
$147: P_{5125} = (4, 31, 3, 1)$
$148: P_{5131} = (10, 31, 3, 1)$
$149: P_{5137} = (16, 31, 3, 1)$
$150: P_{5168} = (15, 0, 4, 1)$
$151: P_{5212} = (27, 1, 4, 1)$
$152: P_{5225} = (8, 2, 4, 1)$
$153: P_{5235} = (18, 2, 4, 1)$
$154: P_{5242} = (25, 2, 4, 1)$
$155: P_{5298} = (17, 4, 4, 1)$
$156: P_{5371} = (26, 6, 4, 1)$
$157: P_{5463} = (22, 9, 4, 1)$
$158: P_{5489} = (16, 10, 4, 1)$
$159: P_{5520} = (15, 11, 4, 1)$
$160: P_{5529} = (24, 11, 4, 1)$
$161: P_{5534} = (29, 11, 4, 1)$
$162: P_{5609} = (8, 14, 4, 1)$
$163: P_{5620} = (19, 14, 4, 1)$
$164: P_{5621} = (20, 14, 4, 1)$
$165: P_{5669} = (4, 16, 4, 1)$
$166: P_{5714} = (17, 17, 4, 1)$
$167: P_{5758} = (29, 18, 4, 1)$
$168: P_{5811} = (18, 20, 4, 1)$
$169: P_{5838} = (13, 21, 4, 1)$
$170: P_{5913} = (24, 23, 4, 1)$
$171: P_{5947} = (26, 24, 4, 1)$
$172: P_{5972} = (19, 25, 4, 1)$
$173: P_{6039} = (22, 27, 4, 1)$
$174: P_{6062} = (13, 28, 4, 1)$
$175: P_{6129} = (16, 30, 4, 1)$
$176: P_{6133} = (20, 30, 4, 1)$
$177: P_{6140} = (27, 30, 4, 1)$
$178: P_{6170} = (25, 31, 4, 1)$
$179: P_{6194} = (17, 0, 5, 1)$
$180: P_{6336} = (31, 4, 5, 1)$
$181: P_{6347} = (10, 5, 5, 1)$
$182: P_{6359} = (22, 5, 5, 1)$
$183: P_{6361} = (24, 5, 5, 1)$
$184: P_{6388} = (19, 6, 5, 1)$
$185: P_{6417} = (16, 7, 5, 1)$
$186: P_{6463} = (30, 8, 5, 1)$
$187: P_{6507} = (10, 10, 5, 1)$
$188: P_{6654} = (29, 14, 5, 1)$
$189: P_{6685} = (28, 15, 5, 1)$
$190: P_{6708} = (19, 16, 5, 1)$
$191: P_{6766} = (13, 18, 5, 1)$
$192: P_{6767} = (14, 18, 5, 1)$
$193: P_{6769} = (16, 18, 5, 1)$
$194: P_{6815} = (30, 19, 5, 1)$
$195: P_{6834} = (17, 20, 5, 1)$
$196: P_{6903} = (22, 22, 5, 1)$
$197: P_{6909} = (28, 22, 5, 1)$
$198: P_{6910} = (29, 22, 5, 1)$
$199: P_{6925} = (12, 23, 5, 1)$
$200: P_{6969} = (24, 24, 5, 1)$
$201: P_{6991} = (14, 25, 5, 1)$
$202: P_{7022} = (13, 26, 5, 1)$
$203: P_{7043} = (2, 27, 5, 1)$
$204: P_{7075} = (2, 28, 5, 1)$
$205: P_{7149} = (12, 30, 5, 1)$
$206: P_{7168} = (31, 30, 5, 1)$
$207: P_{7174} = (5, 31, 5, 1)$
$208: P_{7237} = (4, 1, 6, 1)$
$209: P_{7301} = (4, 3, 6, 1)$
$210: P_{7307} = (10, 3, 6, 1)$
$211: P_{7309} = (12, 3, 6, 1)$
$212: P_{7388} = (27, 5, 6, 1)$
$213: P_{7446} = (21, 7, 6, 1)$
$214: P_{7501} = (12, 9, 6, 1)$
$215: P_{7514} = (25, 9, 6, 1)$
$216: P_{7518} = (29, 9, 6, 1)$
$217: P_{7539} = (18, 10, 6, 1)$
$218: P_{7575} = (22, 11, 6, 1)$
$219: P_{7672} = (23, 14, 6, 1)$
$220: P_{7691} = (10, 15, 6, 1)$
$221: P_{7716} = (3, 16, 6, 1)$
$222: P_{7806} = (29, 18, 6, 1)$
$223: P_{7815} = (6, 19, 6, 1)$
$224: P_{7849} = (8, 20, 6, 1)$
$225: P_{7862} = (21, 20, 6, 1)$
$226: P_{7876} = (3, 21, 6, 1)$
$227: P_{7930} = (25, 22, 6, 1)$
$228: P_{7996} = (27, 24, 6, 1)$
$229: P_{8003} = (2, 25, 6, 1)$
$230: P_{8041} = (8, 26, 6, 1)$
$231: P_{8087} = (22, 27, 6, 1)$
$232: P_{8131} = (2, 29, 6, 1)$
$233: P_{8179} = (18, 30, 6, 1)$
$234: P_{8216} = (23, 31, 6, 1)$
$235: P_{8238} = (13, 0, 7, 1)$

$236: P_{8245} = (20, 0, 7, 1)$
$237: P_{8249} = (24, 0, 7, 1)$
$238: P_{8260} = (3, 1, 7, 1)$
$239: P_{8357} = (4, 4, 7, 1)$
$240: P_{8388} = (3, 5, 7, 1)$
$241: P_{8410} = (25, 5, 7, 1)$
$242: P_{8415} = (30, 5, 7, 1)$
$243: P_{8445} = (28, 6, 7, 1)$
$244: P_{8453} = (4, 7, 7, 1)$
$245: P_{8465} = (16, 7, 7, 1)$
$246: P_{8467} = (18, 7, 7, 1)$
$247: P_{8504} = (23, 8, 7, 1)$
$248: P_{8520} = (7, 9, 7, 1)$
$249: P_{8558} = (13, 10, 7, 1)$
$250: P_{8604} = (27, 11, 7, 1)$
$251: P_{8635} = (26, 12, 7, 1)$
$252: P_{8745} = (8, 16, 7, 1)$
$253: P_{8746} = (9, 16, 7, 1)$
$254: P_{8753} = (16, 16, 7, 1)$
$255: P_{8770} = (1, 17, 7, 1)$
$256: P_{8780} = (11, 17, 7, 1)$
$257: P_{8795} = (26, 17, 7, 1)$
$258: P_{8819} = (18, 18, 7, 1)$
$259: P_{8853} = (20, 19, 7, 1)$
$260: P_{8880} = (15, 20, 7, 1)$
$261: P_{8943} = (14, 22, 7, 1)$
$262: P_{8962} = (1, 23, 7, 1)$
$263: P_{8973} = (12, 23, 7, 1)$
$264: P_{8988} = (27, 23, 7, 1)$
$265: P_{9016} = (23, 24, 7, 1)$
$266: P_{9114} = (25, 27, 7, 1)$
$267: P_{9133} = (12, 28, 7, 1)$
$268: P_{9136} = (15, 28, 7, 1)$
$269: P_{9151} = (30, 28, 7, 1)$
$270: P_{9164} = (11, 29, 7, 1)$
$271: P_{9181} = (28, 29, 7, 1)$
$272: P_{9194} = (9, 30, 7, 1)$
$273: P_{9225} = (8, 31, 7, 1)$
$274: P_{9231} = (14, 31, 7, 1)$
$275: P_{9241} = (24, 31, 7, 1)$
$276: P_{9263} = (14, 0, 8, 1)$
$277: P_{9344} = (31, 2, 8, 1)$
$278: P_{9407} = (30, 4, 8, 1)$
$279: P_{9428} = (19, 5, 8, 1)$
$280: P_{9455} = (14, 6, 8, 1)$
$281: P_{9462} = (21, 6, 8, 1)$
$282: P_{9469} = (28, 6, 8, 1)$
$283: P_{9478} = (5, 7, 8, 1)$
$284: P_{9560} = (23, 9, 8, 1)$
$285: P_{9574} = (5, 10, 8, 1)$
$286: P_{9618} = (17, 11, 8, 1)$
$287: P_{9683} = (18, 13, 8, 1)$
$288: P_{9705} = (8, 14, 8, 1)$
$289: P_{9842} = (17, 18, 8, 1)$
$290: P_{9853} = (28, 18, 8, 1)$
$291: P_{9855} = (30, 18, 8, 1)$
$292: P_{9952} = (31, 21, 8, 1)$
$293: P_{9976} = (23, 22, 8, 1)$
$294: P_{10003} = (18, 23, 8, 1)$
$295: P_{10060} = (11, 25, 8, 1)$
$296: P_{10092} = (11, 26, 8, 1)$
$297: P_{10134} = (21, 27, 8, 1)$
$298: P_{10228} = (19, 30, 8, 1)$
$299: P_{10307} = (2, 1, 9, 1)$
$300: P_{10351} = (14, 2, 9, 1)$
$301: P_{10373} = (4, 3, 9, 1)$
$302: P_{10425} = (24, 4, 9, 1)$
$303: P_{10447} = (14, 5, 9, 1)$
$304: P_{10456} = (23, 5, 9, 1)$
$305: P_{10462} = (29, 5, 9, 1)$
$306: P_{10574} = (13, 9, 9, 1)$
$307: P_{10595} = (2, 10, 9, 1)$
$308: P_{10684} = (27, 12, 9, 1)$
$309: P_{10702} = (13, 13, 9, 1)$
$310: P_{10725} = (4, 14, 9, 1)$
$311: P_{10738} = (17, 14, 9, 1)$
$312: P_{10747} = (26, 14, 9, 1)$
$313: P_{10778} = (25, 15, 9, 1)$
$314: P_{10794} = (9, 16, 9, 1)$
$315: P_{10846} = (29, 17, 9, 1)$
$316: P_{10854} = (5, 18, 9, 1)$
$317: P_{10969} = (24, 21, 9, 1)$
$318: P_{10978} = (1, 22, 9, 1)$
$319: P_{10984} = (7, 22, 9, 1)$
$320: P_{10994} = (17, 22, 9, 1)$
$321: P_{11048} = (7, 24, 9, 1)$
$322: P_{11085} = (12, 25, 9, 1)$
$323: P_{11160} = (23, 27, 9, 1)$
$324: P_{11181} = (12, 28, 9, 1)$
$325: P_{11227} = (26, 29, 9, 1)$
$326: P_{11234} = (1, 30, 9, 1)$
$327: P_{11238} = (5, 30, 9, 1)$
$328: P_{11260} = (27, 30, 9, 1)$
$329: P_{11290} = (25, 31, 9, 1)$
$330: P_{11327} = (30, 0, 10, 1)$
$331: P_{11389} = (28, 2, 10, 1)$
$332: P_{11408} = (15, 3, 10, 1)$
$333: P_{11443} = (18, 4, 10, 1)$
$334: P_{11504} = (15, 6, 10, 1)$
$335: P_{11597} = (12, 9, 10, 1)$
$336: P_{11604} = (19, 9, 10, 1)$
$337: P_{11608} = (23, 9, 10, 1)$
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744 : $P_{25639} = (6, 0, 24, 1)$
745 : $P_{25649} = (16, 0, 24, 1)$
746 : $P_{25656} = (23, 0, 24, 1)$
747 : $P_{25691} = (26, 1, 24, 1)$
748 : $P_{25699} = (2, 2, 24, 1)$
749 : $P_{25743} = (14, 3, 24, 1)$
750 : $P_{25751} = (22, 3, 24, 1)$
751 : $P_{25755} = (26, 3, 24, 1)$
752 : $P_{25765} = (4, 4, 24, 1)$
753 : $P_{25779} = (18, 4, 24, 1)$
754 : $P_{25780} = (19, 4, 24, 1)$
755 : $P_{25794} = (1, 5, 24, 1)$
756 : $P_{25802} = (9, 5, 24, 1)$
757 : $P_{25805} = (12, 5, 24, 1)$
758 : $P_{25836} = (11, 6, 24, 1)$
759 : $P_{25905} = (16, 8, 24, 1)$
760 : $P_{25934} = (13, 9, 24, 1)$
761 : $P_{26071} = (22, 13, 24, 1)$
762 : $P_{26099} = (18, 14, 24, 1)$
763 : $P_{26123} = (10, 15, 24, 1)$
764 : $P_{26132} = (19, 15, 24, 1)$
765 : $P_{26136} = (23, 15, 24, 1)$
766 : $P_{26189} = (12, 17, 24, 1)$
767 : $P_{26233} = (24, 18, 24, 1)$
768 : $P_{26269} = (28, 19, 24, 1)$
769 : $P_{26282} = (9, 20, 24, 1)$
770 : $P_{26294} = (21, 20, 24, 1)$
771 : $P_{26316} = (11, 21, 24, 1)$
772 : $P_{26319} = (14, 21, 24, 1)$
773 : $P_{26322} = (17, 21, 24, 1)$
774 : $P_{26397} = (28, 23, 24, 1)$
775 : $P_{26403} = (2, 24, 24, 1)$

776 : $P_{26405} = (4, 24, 24, 1)$
777 : $P_{26432} = (31, 24, 24, 1)$
778 : $P_{26454} = (21, 25, 24, 1)$
779 : $P_{26530} = (1, 28, 24, 1)$
780 : $P_{26542} = (13, 28, 24, 1)$
781 : $P_{26546} = (17, 28, 24, 1)$
782 : $P_{26571} = (10, 29, 24, 1)$
783 : $P_{26599} = (6, 30, 24, 1)$
784 : $P_{26656} = (31, 31, 24, 1)$
785 : $P_{26691} = (2, 1, 25, 1)$
786 : $P_{26766} = (13, 3, 25, 1)$
787 : $P_{26811} = (26, 4, 25, 1)$
788 : $P_{26856} = (7, 6, 25, 1)$
789 : $P_{26868} = (19, 6, 25, 1)$
790 : $P_{26907} = (26, 7, 25, 1)$
791 : $P_{26944} = (31, 8, 25, 1)$
792 : $P_{26974} = (29, 9, 25, 1)$
793 : $P_{27005} = (28, 10, 25, 1)$
794 : $P_{27017} = (8, 11, 25, 1)$
795 : $P_{27060} = (19, 12, 25, 1)$
796 : $P_{27102} = (29, 13, 25, 1)$
797 : $P_{27136} = (31, 14, 25, 1)$
798 : $P_{27165} = (28, 15, 25, 1)$
799 : $P_{27250} = (17, 18, 25, 1)$
800 : $P_{27253} = (20, 18, 25, 1)$
801 : $P_{27255} = (22, 18, 25, 1)$
802 : $P_{27324} = (27, 20, 25, 1)$
803 : $P_{27388} = (27, 22, 25, 1)$
804 : $P_{27406} = (13, 23, 25, 1)$
805 : $P_{27432} = (7, 24, 25, 1)$
806 : $P_{27491} = (2, 26, 25, 1)$
807 : $P_{27497} = (8, 26, 25, 1)$
808 : $P_{27506} = (17, 26, 25, 1)$
809 : $P_{27607} = (22, 29, 25, 1)$
810 : $P_{27642} = (25, 30, 25, 1)$
811 : $P_{27669} = (20, 31, 25, 1)$
812 : $P_{27684} = (3, 0, 26, 1)$
813 : $P_{27759} = (14, 2, 26, 1)$
814 : $P_{27918} = (13, 7, 26, 1)$
815 : $P_{27943} = (6, 8, 26, 1)$
816 : $P_{27976} = (7, 9, 26, 1)$
817 : $P_{28006} = (5, 10, 26, 1)$
818 : $P_{28012} = (11, 10, 26, 1)$
819 : $P_{28059} = (26, 11, 26, 1)$
820 : $P_{28139} = (10, 14, 26, 1)$
821 : $P_{28163} = (2, 15, 26, 1)$
822 : $P_{28165} = (4, 15, 26, 1)$
823 : $P_{28169} = (8, 15, 26, 1)$
824 : $P_{28206} = (13, 16, 26, 1)$
825 : $P_{28229} = (4, 17, 26, 1)$
826 : $P_{28308} = (19, 19, 26, 1)$
827 : $P_{28327} = (6, 20, 26, 1)$
828 : $P_{28328} = (7, 20, 26, 1)$
829 : $P_{28341} = (20, 20, 26, 1)$
830 : $P_{28358} = (5, 21, 26, 1)$
831 : $P_{28399} = (14, 22, 26, 1)$
832 : $P_{28419} = (2, 23, 26, 1)$
833 : $P_{28484} = (3, 25, 26, 1)$
834 : $P_{28532} = (19, 26, 26, 1)$
835 : $P_{28533} = (20, 26, 26, 1)$
836 : $P_{28541} = (28, 26, 26, 1)$
837 : $P_{28556} = (11, 27, 26, 1)$
838 : $P_{28605} = (28, 28, 26, 1)$
839 : $P_{28617} = (8, 29, 26, 1)$
840 : $P_{28651} = (10, 30, 26, 1)$
841 : $P_{28714} = (9, 0, 27, 1)$
842 : $P_{28753} = (16, 1, 27, 1)$
843 : $P_{28796} = (27, 2, 27, 1)$
844 : $P_{28804} = (3, 3, 27, 1)$
845 : $P_{28933} = (4, 7, 27, 1)$
846 : $P_{28975} = (14, 8, 27, 1)$
847 : $P_{28986} = (25, 8, 27, 1)$
848 : $P_{28991} = (30, 8, 27, 1)$
849 : $P_{29027} = (2, 10, 27, 1)$
850 : $P_{29041} = (16, 10, 27, 1)$
851 : $P_{29050} = (25, 10, 27, 1)$
852 : $P_{29086} = (29, 11, 27, 1)$
853 : $P_{29136} = (15, 13, 27, 1)$
854 : $P_{29150} = (29, 13, 27, 1)$
855 : $P_{29151} = (30, 13, 27, 1)$
856 : $P_{29191} = (6, 15, 27, 1)$
857 : $P_{29237} = (20, 16, 27, 1)$
858 : $P_{29287} = (6, 18, 27, 1)$
859 : $P_{29290} = (9, 18, 27, 1)$
860 : $P_{29309} = (28, 18, 27, 1)$
861 : $P_{29315} = (2, 19, 27, 1)$
862 : $P_{29405} = (28, 21, 27, 1)$
863 : $P_{29426} = (17, 22, 27, 1)$
864 : $P_{29477} = (4, 24, 27, 1)$
865 : $P_{29520} = (15, 25, 27, 1)$
866 : $P_{29572} = (3, 27, 27, 1)$
867 : $P_{29618} = (17, 28, 27, 1)$
868 : $P_{29647} = (14, 29, 27, 1)$
869 : $P_{29717} = (20, 31, 27, 1)$
870 : $P_{29731} = (2, 0, 28, 1)$
871 : $P_{29750} = (21, 0, 28, 1)$
872 : $P_{29751} = (22, 0, 28, 1)$
873 : $P_{29778} = (17, 1, 28, 1)$
874 : $P_{29830} = (5, 3, 28, 1)$
875 : $P_{29877} = (20, 4, 28, 1)$
876 : $P_{29940} = (19, 6, 28, 1)$
877 : $P_{29954} = (1, 7, 28, 1)$
878 : $P_{29956} = (3, 7, 28, 1)$
879 : $P_{29957} = (4, 7, 28, 1)$
880 : $P_{30000} = (15, 8, 28, 1)$
881 : $P_{30031} = (14, 9, 28, 1)$
882 : $P_{30036} = (19, 9, 28, 1)$
883 : $P_{30038} = (21, 9, 28, 1)$

884 : $P_{30071} = (22, 10, 28, 1)$
885 : $P_{30092} = (11, 11, 28, 1)$
886 : $P_{30121} = (8, 12, 28, 1)$
887 : $P_{30130} = (17, 12, 28, 1)$
888 : $P_{30133} = (20, 12, 28, 1)$
889 : $P_{30158} = (13, 13, 28, 1)$
890 : $P_{30184} = (7, 14, 28, 1)$
891 : $P_{30237} = (28, 15, 28, 1)$
892 : $P_{30408} = (7, 21, 28, 1)$
893 : $P_{30451} = (18, 22, 28, 1)$
894 : $P_{30500} = (3, 24, 28, 1)$
895 : $P_{30505} = (8, 24, 28, 1)$
896 : $P_{30515} = (18, 24, 28, 1)$
897 : $P_{30553} = (24, 25, 28, 1)$
898 : $P_{30560} = (31, 25, 28, 1)$
899 : $P_{30562} = (1, 26, 28, 1)$
900 : $P_{30566} = (5, 26, 28, 1)$
901 : $P_{30592} = (31, 26, 28, 1)$
902 : $P_{30607} = (14, 27, 28, 1)$
903 : $P_{30608} = (15, 27, 28, 1)$
904 : $P_{30620} = (27, 27, 28, 1)$
905 : $P_{30636} = (11, 28, 28, 1)$
906 : $P_{30638} = (13, 28, 28, 1)$
907 : $P_{30652} = (27, 28, 28, 1)$
908 : $P_{30681} = (24, 29, 28, 1)$
909 : $P_{30691} = (2, 30, 28, 1)$
910 : $P_{30725} = (4, 31, 28, 1)$
911 : $P_{30798} = (13, 1, 29, 1)$
912 : $P_{30887} = (6, 4, 29, 1)$
913 : $P_{30927} = (14, 5, 29, 1)$
914 : $P_{30965} = (20, 6, 29, 1)$
915 : $P_{31020} = (11, 8, 29, 1)$
916 : $P_{31048} = (7, 9, 29, 1)$
917 : $P_{31102} = (29, 10, 29, 1)$
918 : $P_{31130} = (25, 11, 29, 1)$
919 : $P_{31141} = (4, 12, 29, 1)$
920 : $P_{31236} = (3, 15, 29, 1)$
921 : $P_{31253} = (20, 15, 29, 1)$
922 : $P_{31258} = (25, 15, 29, 1)$
923 : $P_{31300} = (3, 17, 29, 1)$
924 : $P_{31310} = (13, 17, 29, 1)$
925 : $P_{31327} = (30, 17, 29, 1)$
926 : $P_{31359} = (30, 18, 29, 1)$
927 : $P_{31368} = (7, 19, 29, 1)$
928 : $P_{31409} = (16, 20, 29, 1)$
929 : $P_{31429} = (4, 21, 29, 1)$
930 : $P_{31471} = (14, 22, 29, 1)$
931 : $P_{31480} = (23, 22, 29, 1)$
932 : $P_{31506} = (17, 23, 29, 1)$
933 : $P_{31569} = (16, 25, 29, 1)$
934 : $P_{31634} = (17, 27, 29, 1)$
935 : $P_{31672} = (23, 28, 29, 1)$
936 : $P_{31724} = (11, 30, 29, 1)$
937 : $P_{31751} = (6, 31, 29, 1)$
938 : $P_{31785} = (8, 0, 30, 1)$
939 : $P_{31920} = (15, 4, 30, 1)$
940 : $P_{32063} = (30, 8, 30, 1)$
941 : $P_{32111} = (14, 10, 30, 1)$
942 : $P_{32204} = (11, 13, 30, 1)$
943 : $P_{32260} = (3, 15, 30, 1)$
944 : $P_{32264} = (7, 15, 30, 1)$
945 : $P_{32267} = (10, 15, 30, 1)$
946 : $P_{32313} = (24, 16, 30, 1)$
947 : $P_{32339} = (18, 17, 30, 1)$
948 : $P_{32356} = (3, 18, 30, 1)$
949 : $P_{32411} = (26, 19, 30, 1)$
950 : $P_{32438} = (21, 20, 30, 1)$
951 : $P_{32464} = (15, 21, 30, 1)$
952 : $P_{32488} = (7, 22, 30, 1)$
953 : $P_{32489} = (8, 22, 30, 1)$
954 : $P_{32505} = (24, 22, 30, 1)$
955 : $P_{32539} = (26, 23, 30, 1)$
956 : $P_{32556} = (11, 24, 30, 1)$
957 : $P_{32623} = (14, 26, 30, 1)$
958 : $P_{32651} = (10, 27, 30, 1)$
959 : $P_{32723} = (18, 29, 30, 1)$
960 : $P_{32790} = (21, 31, 30, 1)$
961 : $P_{32846} = (13, 1, 31, 1)$
962 : $P_{32896} = (31, 2, 31, 1)$
963 : $P_{32903} = (6, 3, 31, 1)$
964 : $P_{32933} = (4, 4, 31, 1)$
965 : $P_{32977} = (16, 5, 31, 1)$
966 : $P_{33010} = (17, 6, 31, 1)$
967 : $P_{33030} = (5, 7, 31, 1)$
968 : $P_{33060} = (3, 8, 31, 1)$
969 : $P_{33074} = (17, 8, 31, 1)$
970 : $P_{33084} = (27, 8, 31, 1)$
971 : $P_{33118} = (29, 9, 31, 1)$
972 : $P_{33122} = (1, 10, 31, 1)$
973 : $P_{33137} = (16, 10, 31, 1)$
974 : $P_{33147} = (26, 10, 31, 1)$
975 : $P_{33182} = (29, 11, 31, 1)$
976 : $P_{33212} = (27, 12, 31, 1)$
977 : $P_{33225} = (8, 13, 31, 1)$
978 : $P_{33307} = (26, 15, 31, 1)$
979 : $P_{33334} = (21, 16, 31, 1)$
980 : $P_{33422} = (13, 19, 31, 1)$
981 : $P_{33442} = (1, 20, 31, 1)$
982 : $P_{33444} = (3, 20, 31, 1)$
983 : $P_{33464} = (23, 20, 31, 1)$
984 : $P_{33597} = (28, 24, 31, 1)$
985 : $P_{33639} = (6, 26, 31, 1)$
986 : $P_{33641} = (8, 26, 31, 1)$
987 : $P_{33654} = (21, 26, 31, 1)$
988 : $P_{33693} = (28, 27, 31, 1)$
989 : $P_{33720} = (23, 28, 31, 1)$
990 : $P_{33734} = (5, 29, 31, 1)$
991 : $P_{33797} = (4, 31, 31, 1)$

Line Intersection Graph

Neighbor sets in the line intersection graph:
Line 0 intersects

Line
in point

The surface has 1025 points:
Too many to print.