

Rank-74057 over GF(16)

January 15, 2021

The equation

The equation of the surface is :

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

(0, 1, 1, 0, 0, 0, 1, 0, 1, 0, 0, 0, 0, 1, 0, 0, 0)

The point rank of the equation over GF(16) is 303108645

General information

Number of lines	0
Number of points	225
Number of singular points	0
Number of Eckardt points	0
Number of double points	0
Number of single points	0
Number of points off lines	225
Number of Hesse planes	0
Number of axes	0
Type of points on lines	
Type of lines on points	0^{225}

Singular Points

The surface has 0 singular points:

The 0 Lines

The lines and their Pluecker coordinates are:

Rank of lines: ()

Rank of points on Klein quadric: ()

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 0 single points:

The single points on the surface are:

The single points on the surface are:

Points on surface but on no line

The surface has 225 points not on any line:

The points on the surface but not on lines are:

0 : $P_0 = (1, 0, 0, 0)$	27 : $P_{636} = (11, 6, 1, 1)$
1 : $P_3 = (0, 0, 0, 1)$	28 : $P_{637} = (12, 6, 1, 1)$
2 : $P_4 = (1, 1, 1, 1)$	29 : $P_{652} = (11, 7, 1, 1)$
3 : $P_{36} = (1, 1, 1, 0)$	30 : $P_{654} = (13, 7, 1, 1)$
4 : $P_{61} = (10, 2, 1, 0)$	31 : $P_{691} = (2, 10, 1, 1)$
5 : $P_{81} = (14, 3, 1, 0)$	32 : $P_{698} = (9, 10, 1, 1)$
6 : $P_{94} = (11, 4, 1, 0)$	33 : $P_{709} = (4, 11, 1, 1)$
7 : $P_{101} = (2, 5, 1, 0)$	34 : $P_{719} = (14, 11, 1, 1)$
8 : $P_{130} = (15, 6, 1, 0)$	35 : $P_{728} = (7, 12, 1, 1)$
9 : $P_{136} = (5, 7, 1, 0)$	36 : $P_{731} = (10, 12, 1, 1)$
10 : $P_{151} = (4, 8, 1, 0)$	37 : $P_{743} = (6, 13, 1, 1)$
11 : $P_{173} = (10, 9, 1, 0)$	38 : $P_{747} = (10, 13, 1, 1)$
12 : $P_{189} = (10, 10, 1, 0)$	39 : $P_{813} = (12, 1, 2, 1)$
13 : $P_{206} = (11, 11, 1, 0)$	40 : $P_{816} = (15, 1, 2, 1)$
14 : $P_{219} = (8, 12, 1, 0)$	41 : $P_{826} = (9, 2, 2, 1)$
15 : $P_{230} = (3, 13, 1, 0)$	42 : $P_{829} = (12, 2, 2, 1)$
16 : $P_{254} = (11, 14, 1, 0)$	43 : $P_{950} = (5, 10, 2, 1)$
17 : $P_{268} = (9, 15, 1, 0)$	44 : $P_{954} = (9, 10, 2, 1)$
18 : $P_{275} = (1, 0, 0, 1)$	45 : $P_{990} = (13, 12, 2, 1)$
19 : $P_{300} = (10, 1, 0, 1)$	46 : $P_{1012} = (3, 14, 2, 1)$
20 : $P_{301} = (11, 1, 0, 1)$	47 : $P_{1016} = (7, 14, 2, 1)$
21 : $P_{444} = (10, 10, 0, 1)$	48 : $P_{1128} = (7, 5, 3, 1)$
22 : $P_{445} = (11, 10, 0, 1)$	49 : $P_{1130} = (9, 5, 3, 1)$
23 : $P_{460} = (10, 11, 0, 1)$	50 : $P_{1142} = (5, 6, 3, 1)$
24 : $P_{461} = (11, 11, 0, 1)$	51 : $P_{1151} = (14, 6, 3, 1)$
25 : $P_{540} = (10, 0, 1, 1)$	52 : $P_{1155} = (2, 7, 3, 1)$
26 : $P_{541} = (11, 0, 1, 1)$	53 : $P_{1163} = (10, 7, 3, 1)$

54 : $P_{1183} = (14, 8, 3, 1)$	108 : $P_{2291} = (2, 14, 7, 1)$
55 : $P_{1190} = (5, 9, 3, 1)$	109 : $P_{2360} = (7, 2, 8, 1)$
56 : $P_{1191} = (6, 9, 3, 1)$	110 : $P_{2368} = (15, 2, 8, 1)$
57 : $P_{1210} = (9, 10, 3, 1)$	111 : $P_{2373} = (4, 3, 8, 1)$
58 : $P_{1216} = (15, 10, 3, 1)$	112 : $P_{2426} = (9, 6, 8, 1)$
59 : $P_{1238} = (5, 12, 3, 1)$	113 : $P_{2427} = (10, 6, 8, 1)$
60 : $P_{1242} = (9, 12, 3, 1)$	114 : $P_{2437} = (4, 7, 8, 1)$
61 : $P_{1250} = (1, 13, 3, 1)$	115 : $P_{2448} = (15, 7, 8, 1)$
62 : $P_{1263} = (14, 13, 3, 1)$	116 : $P_{2483} = (2, 10, 8, 1)$
63 : $P_{1316} = (3, 1, 4, 1)$	117 : $P_{2486} = (5, 10, 8, 1)$
64 : $P_{1319} = (6, 1, 4, 1)$	118 : $P_{2514} = (1, 12, 8, 1)$
65 : $P_{1334} = (5, 2, 4, 1)$	119 : $P_{2517} = (4, 12, 8, 1)$
66 : $P_{1341} = (12, 2, 4, 1)$	120 : $P_{2531} = (2, 13, 8, 1)$
67 : $P_{1367} = (6, 4, 4, 1)$	121 : $P_{2544} = (15, 13, 8, 1)$
68 : $P_{1375} = (14, 4, 4, 1)$	122 : $P_{2563} = (2, 15, 8, 1)$
69 : $P_{1400} = (7, 6, 4, 1)$	123 : $P_{2567} = (6, 15, 8, 1)$
70 : $P_{1481} = (8, 11, 4, 1)$	124 : $P_{2598} = (5, 1, 9, 1)$
71 : $P_{1487} = (14, 11, 4, 1)$	125 : $P_{2606} = (13, 1, 9, 1)$
72 : $P_{1657} = (8, 6, 5, 1)$	126 : $P_{2647} = (6, 4, 9, 1)$
73 : $P_{1663} = (14, 6, 5, 1)$	127 : $P_{2649} = (8, 4, 9, 1)$
74 : $P_{1666} = (1, 7, 5, 1)$	128 : $P_{2723} = (2, 9, 9, 1)$
75 : $P_{1667} = (2, 7, 5, 1)$	129 : $P_{2734} = (13, 9, 9, 1)$
76 : $P_{1693} = (12, 8, 5, 1)$	130 : $P_{2739} = (2, 10, 9, 1)$
77 : $P_{1695} = (14, 8, 5, 1)$	131 : $P_{2752} = (15, 10, 9, 1)$
78 : $P_{1732} = (3, 11, 5, 1)$	132 : $P_{2797} = (12, 13, 9, 1)$
79 : $P_{1743} = (14, 11, 5, 1)$	133 : $P_{2843} = (10, 0, 10, 1)$
80 : $P_{1749} = (4, 12, 5, 1)$	134 : $P_{2844} = (11, 0, 10, 1)$
81 : $P_{1756} = (11, 12, 5, 1)$	135 : $P_{2850} = (1, 1, 10, 1)$
82 : $P_{1763} = (2, 13, 5, 1)$	136 : $P_{2859} = (10, 1, 10, 1)$
83 : $P_{1769} = (8, 13, 5, 1)$	137 : $P_{2882} = (1, 3, 10, 1)$
84 : $P_{1785} = (8, 14, 5, 1)$	138 : $P_{2888} = (7, 3, 10, 1)$
85 : $P_{1790} = (13, 14, 5, 1)$	139 : $P_{2902} = (5, 4, 10, 1)$
86 : $P_{1795} = (2, 15, 5, 1)$	140 : $P_{2904} = (7, 4, 10, 1)$
87 : $P_{1842} = (1, 2, 6, 1)$	141 : $P_{2916} = (3, 5, 10, 1)$
88 : $P_{1853} = (12, 2, 6, 1)$	142 : $P_{2924} = (11, 5, 10, 1)$
89 : $P_{1882} = (9, 4, 6, 1)$	143 : $P_{2962} = (1, 8, 10, 1)$
90 : $P_{1907} = (2, 6, 6, 1)$	144 : $P_{2967} = (6, 8, 10, 1)$
91 : $P_{1919} = (14, 6, 6, 1)$	145 : $P_{2998} = (5, 10, 10, 1)$
92 : $P_{1923} = (2, 7, 6, 1)$	146 : $P_{3008} = (15, 10, 10, 1)$
93 : $P_{1929} = (8, 7, 6, 1)$	147 : $P_{3019} = (10, 11, 10, 1)$
94 : $P_{1950} = (13, 8, 6, 1)$	148 : $P_{3027} = (2, 12, 10, 1)$
95 : $P_{1951} = (14, 8, 6, 1)$	149 : $P_{3031} = (6, 12, 10, 1)$
96 : $P_{2038} = (5, 14, 6, 1)$	150 : $P_{3048} = (7, 13, 10, 1)$
97 : $P_{2044} = (11, 14, 6, 1)$	151 : $P_{3050} = (9, 13, 10, 1)$
98 : $P_{2117} = (4, 3, 7, 1)$	152 : $P_{3063} = (6, 14, 10, 1)$
99 : $P_{2125} = (12, 3, 7, 1)$	153 : $P_{3072} = (15, 14, 10, 1)$
100 : $P_{2140} = (11, 4, 7, 1)$	154 : $P_{3081} = (8, 15, 10, 1)$
101 : $P_{2144} = (15, 4, 7, 1)$	155 : $P_{3084} = (11, 15, 10, 1)$
102 : $P_{2164} = (3, 6, 7, 1)$	156 : $P_{3099} = (10, 0, 11, 1)$
103 : $P_{2170} = (9, 6, 7, 1)$	157 : $P_{3100} = (11, 0, 11, 1)$
104 : $P_{2181} = (4, 7, 7, 1)$	158 : $P_{3106} = (1, 1, 11, 1)$
105 : $P_{2186} = (9, 7, 7, 1)$	159 : $P_{3116} = (11, 1, 11, 1)$
106 : $P_{2210} = (1, 9, 7, 1)$	160 : $P_{3124} = (3, 2, 11, 1)$
107 : $P_{2222} = (13, 9, 7, 1)$	161 : $P_{3134} = (13, 2, 11, 1)$

162 : $P_{3147} = (10, 3, 11, 1)$	194 : $P_{3759} = (14, 9, 13, 1)$
163 : $P_{3152} = (15, 3, 11, 1)$	195 : $P_{3797} = (4, 12, 13, 1)$
164 : $P_{3170} = (1, 5, 11, 1)$	196 : $P_{3808} = (15, 12, 13, 1)$
165 : $P_{3181} = (12, 5, 11, 1)$	197 : $P_{3811} = (2, 13, 13, 1)$
166 : $P_{3189} = (4, 6, 11, 1)$	198 : $P_{3813} = (4, 13, 13, 1)$
167 : $P_{3198} = (13, 6, 11, 1)$	199 : $P_{3843} = (2, 15, 13, 1)$
168 : $P_{3213} = (12, 7, 11, 1)$	200 : $P_{3848} = (7, 15, 13, 1)$
169 : $P_{3215} = (14, 7, 11, 1)$	201 : $P_{3880} = (7, 1, 14, 1)$
170 : $P_{3222} = (5, 8, 11, 1)$	202 : $P_{3881} = (8, 1, 14, 1)$
171 : $P_{3227} = (10, 8, 11, 1)$	203 : $P_{3975} = (6, 7, 14, 1)$
172 : $P_{3241} = (8, 9, 11, 1)$	204 : $P_{4014} = (13, 9, 14, 1)$
173 : $P_{3245} = (12, 9, 11, 1)$	205 : $P_{4016} = (15, 9, 14, 1)$
174 : $P_{3260} = (11, 10, 11, 1)$	206 : $P_{4036} = (3, 11, 14, 1)$
175 : $P_{3268} = (3, 11, 11, 1)$	207 : $P_{4037} = (4, 11, 14, 1)$
176 : $P_{3273} = (8, 11, 11, 1)$	208 : $P_{4085} = (4, 14, 14, 1)$
177 : $P_{3330} = (1, 15, 11, 1)$	209 : $P_{4088} = (7, 14, 14, 1)$
178 : $P_{3342} = (13, 15, 11, 1)$	210 : $P_{4165} = (4, 3, 15, 1)$
179 : $P_{3381} = (4, 2, 12, 1)$	211 : $P_{4174} = (13, 3, 15, 1)$
180 : $P_{3431} = (6, 5, 12, 1)$	212 : $P_{4180} = (3, 4, 15, 1)$
181 : $P_{3434} = (9, 5, 12, 1)$	213 : $P_{4189} = (12, 4, 15, 1)$
182 : $P_{3492} = (3, 9, 12, 1)$	214 : $P_{4202} = (9, 5, 15, 1)$
183 : $P_{3499} = (10, 9, 12, 1)$	215 : $P_{4210} = (1, 6, 15, 1)$
184 : $P_{3546} = (9, 12, 12, 1)$	216 : $P_{4218} = (9, 6, 15, 1)$
185 : $P_{3551} = (14, 12, 12, 1)$	217 : $P_{4228} = (3, 7, 15, 1)$
186 : $P_{3558} = (5, 13, 12, 1)$	218 : $P_{4229} = (4, 7, 15, 1)$
187 : $P_{3567} = (14, 13, 12, 1)$	219 : $P_{4293} = (4, 11, 15, 1)$
188 : $P_{3570} = (1, 14, 12, 1)$	220 : $P_{4297} = (8, 11, 15, 1)$
189 : $P_{3576} = (7, 14, 12, 1)$	221 : $P_{4308} = (3, 12, 15, 1)$
190 : $P_{3641} = (8, 2, 13, 1)$	222 : $P_{4314} = (9, 12, 15, 1)$
191 : $P_{3643} = (10, 2, 13, 1)$	223 : $P_{4332} = (11, 13, 15, 1)$
192 : $P_{3666} = (1, 4, 13, 1)$	224 : $P_{4335} = (14, 13, 15, 1)$
193 : $P_{3671} = (6, 4, 13, 1)$	

Line Intersection Graph

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Neighbor sets in the line intersection graph:

The surface has 225 points:

The points on the surface are:

0 : $P_0 = (1, 0, 0, 0)$	12 : $P_{189} = (10, 10, 1, 0)$	24 : $P_{461} = (11, 11, 0, 1)$
1 : $P_3 = (0, 0, 0, 1)$	13 : $P_{206} = (11, 11, 1, 0)$	25 : $P_{540} = (10, 0, 1, 1)$
2 : $P_4 = (1, 1, 1, 1)$	14 : $P_{219} = (8, 12, 1, 0)$	26 : $P_{541} = (11, 0, 1, 1)$
3 : $P_{36} = (1, 1, 1, 0)$	15 : $P_{230} = (3, 13, 1, 0)$	27 : $P_{636} = (11, 6, 1, 1)$
4 : $P_{61} = (10, 2, 1, 0)$	16 : $P_{254} = (11, 14, 1, 0)$	28 : $P_{637} = (12, 6, 1, 1)$
5 : $P_{81} = (14, 3, 1, 0)$	17 : $P_{268} = (9, 15, 1, 0)$	29 : $P_{652} = (11, 7, 1, 1)$
6 : $P_{94} = (11, 4, 1, 0)$	18 : $P_{275} = (1, 0, 0, 1)$	30 : $P_{654} = (13, 7, 1, 1)$
7 : $P_{101} = (2, 5, 1, 0)$	19 : $P_{300} = (10, 1, 0, 1)$	31 : $P_{691} = (2, 10, 1, 1)$
8 : $P_{130} = (15, 6, 1, 0)$	20 : $P_{301} = (11, 1, 0, 1)$	32 : $P_{698} = (9, 10, 1, 1)$
9 : $P_{136} = (5, 7, 1, 0)$	21 : $P_{444} = (10, 10, 0, 1)$	33 : $P_{709} = (4, 11, 1, 1)$
10 : $P_{151} = (4, 8, 1, 0)$	22 : $P_{445} = (11, 10, 0, 1)$	34 : $P_{719} = (14, 11, 1, 1)$
11 : $P_{173} = (10, 9, 1, 0)$	23 : $P_{460} = (10, 11, 0, 1)$	35 : $P_{728} = (7, 12, 1, 1)$

36 : $P_{731} = (10, 12, 1, 1)$	90 : $P_{1907} = (2, 6, 6, 1)$	144 : $P_{2967} = (6, 8, 10, 1)$
37 : $P_{743} = (6, 13, 1, 1)$	91 : $P_{1919} = (14, 6, 6, 1)$	145 : $P_{2998} = (5, 10, 10, 1)$
38 : $P_{747} = (10, 13, 1, 1)$	92 : $P_{1923} = (2, 7, 6, 1)$	146 : $P_{3008} = (15, 10, 10, 1)$
39 : $P_{813} = (12, 1, 2, 1)$	93 : $P_{1929} = (8, 7, 6, 1)$	147 : $P_{3019} = (10, 11, 10, 1)$
40 : $P_{816} = (15, 1, 2, 1)$	94 : $P_{1950} = (13, 8, 6, 1)$	148 : $P_{3027} = (2, 12, 10, 1)$
41 : $P_{826} = (9, 2, 2, 1)$	95 : $P_{1951} = (14, 8, 6, 1)$	149 : $P_{3031} = (6, 12, 10, 1)$
42 : $P_{829} = (12, 2, 2, 1)$	96 : $P_{2038} = (5, 14, 6, 1)$	150 : $P_{3048} = (7, 13, 10, 1)$
43 : $P_{950} = (5, 10, 2, 1)$	97 : $P_{2044} = (11, 14, 6, 1)$	151 : $P_{3050} = (9, 13, 10, 1)$
44 : $P_{954} = (9, 10, 2, 1)$	98 : $P_{2117} = (4, 3, 7, 1)$	152 : $P_{3063} = (6, 14, 10, 1)$
45 : $P_{990} = (13, 12, 2, 1)$	99 : $P_{2125} = (12, 3, 7, 1)$	153 : $P_{3072} = (15, 14, 10, 1)$
46 : $P_{1012} = (3, 14, 2, 1)$	100 : $P_{2140} = (11, 4, 7, 1)$	154 : $P_{3081} = (8, 15, 10, 1)$
47 : $P_{1016} = (7, 14, 2, 1)$	101 : $P_{2144} = (15, 4, 7, 1)$	155 : $P_{3084} = (11, 15, 10, 1)$
48 : $P_{1128} = (7, 5, 3, 1)$	102 : $P_{2164} = (3, 6, 7, 1)$	156 : $P_{3099} = (10, 0, 11, 1)$
49 : $P_{1130} = (9, 5, 3, 1)$	103 : $P_{2170} = (9, 6, 7, 1)$	157 : $P_{3100} = (11, 0, 11, 1)$
50 : $P_{1142} = (5, 6, 3, 1)$	104 : $P_{2181} = (4, 7, 7, 1)$	158 : $P_{3106} = (1, 1, 11, 1)$
51 : $P_{1151} = (14, 6, 3, 1)$	105 : $P_{2186} = (9, 7, 7, 1)$	159 : $P_{3116} = (11, 1, 11, 1)$
52 : $P_{1155} = (2, 7, 3, 1)$	106 : $P_{2210} = (1, 9, 7, 1)$	160 : $P_{3124} = (3, 2, 11, 1)$
53 : $P_{1163} = (10, 7, 3, 1)$	107 : $P_{2222} = (13, 9, 7, 1)$	161 : $P_{3134} = (13, 2, 11, 1)$
54 : $P_{1183} = (14, 8, 3, 1)$	108 : $P_{2291} = (2, 14, 7, 1)$	162 : $P_{3147} = (10, 3, 11, 1)$
55 : $P_{1190} = (5, 9, 3, 1)$	109 : $P_{2360} = (7, 2, 8, 1)$	163 : $P_{3152} = (15, 3, 11, 1)$
56 : $P_{1191} = (6, 9, 3, 1)$	110 : $P_{2368} = (15, 2, 8, 1)$	164 : $P_{3170} = (1, 5, 11, 1)$
57 : $P_{1210} = (9, 10, 3, 1)$	111 : $P_{2373} = (4, 3, 8, 1)$	165 : $P_{3181} = (12, 5, 11, 1)$
58 : $P_{1216} = (15, 10, 3, 1)$	112 : $P_{2426} = (9, 6, 8, 1)$	166 : $P_{3189} = (4, 6, 11, 1)$
59 : $P_{1238} = (5, 12, 3, 1)$	113 : $P_{2427} = (10, 6, 8, 1)$	167 : $P_{3198} = (13, 6, 11, 1)$
60 : $P_{1242} = (9, 12, 3, 1)$	114 : $P_{2437} = (4, 7, 8, 1)$	168 : $P_{3213} = (12, 7, 11, 1)$
61 : $P_{1250} = (1, 13, 3, 1)$	115 : $P_{2448} = (15, 7, 8, 1)$	169 : $P_{3215} = (14, 7, 11, 1)$
62 : $P_{1263} = (14, 13, 3, 1)$	116 : $P_{2483} = (2, 10, 8, 1)$	170 : $P_{3222} = (5, 8, 11, 1)$
63 : $P_{1316} = (3, 1, 4, 1)$	117 : $P_{2486} = (5, 10, 8, 1)$	171 : $P_{3227} = (10, 8, 11, 1)$
64 : $P_{1319} = (6, 1, 4, 1)$	118 : $P_{2514} = (1, 12, 8, 1)$	172 : $P_{3241} = (8, 9, 11, 1)$
65 : $P_{1334} = (5, 2, 4, 1)$	119 : $P_{2517} = (4, 12, 8, 1)$	173 : $P_{3245} = (12, 9, 11, 1)$
66 : $P_{1341} = (12, 2, 4, 1)$	120 : $P_{2531} = (2, 13, 8, 1)$	174 : $P_{3260} = (11, 10, 11, 1)$
67 : $P_{1367} = (6, 4, 4, 1)$	121 : $P_{2544} = (15, 13, 8, 1)$	175 : $P_{3268} = (3, 11, 11, 1)$
68 : $P_{1375} = (14, 4, 4, 1)$	122 : $P_{2563} = (2, 15, 8, 1)$	176 : $P_{3273} = (8, 11, 11, 1)$
69 : $P_{1400} = (7, 6, 4, 1)$	123 : $P_{2567} = (6, 15, 8, 1)$	177 : $P_{3330} = (1, 15, 11, 1)$
70 : $P_{1481} = (8, 11, 4, 1)$	124 : $P_{2598} = (5, 1, 9, 1)$	178 : $P_{3342} = (13, 15, 11, 1)$
71 : $P_{1487} = (14, 11, 4, 1)$	125 : $P_{2606} = (13, 1, 9, 1)$	179 : $P_{3381} = (4, 2, 12, 1)$
72 : $P_{1657} = (8, 6, 5, 1)$	126 : $P_{2647} = (6, 4, 9, 1)$	180 : $P_{3431} = (6, 5, 12, 1)$
73 : $P_{1663} = (14, 6, 5, 1)$	127 : $P_{2649} = (8, 4, 9, 1)$	181 : $P_{3434} = (9, 5, 12, 1)$
74 : $P_{1666} = (1, 7, 5, 1)$	128 : $P_{2723} = (2, 9, 9, 1)$	182 : $P_{3492} = (3, 9, 12, 1)$
75 : $P_{1667} = (2, 7, 5, 1)$	129 : $P_{2734} = (13, 9, 9, 1)$	183 : $P_{3499} = (10, 9, 12, 1)$
76 : $P_{1693} = (12, 8, 5, 1)$	130 : $P_{2739} = (2, 10, 9, 1)$	184 : $P_{3546} = (9, 12, 12, 1)$
77 : $P_{1695} = (14, 8, 5, 1)$	131 : $P_{2752} = (15, 10, 9, 1)$	185 : $P_{3551} = (14, 12, 12, 1)$
78 : $P_{1732} = (3, 11, 5, 1)$	132 : $P_{2797} = (12, 13, 9, 1)$	186 : $P_{3558} = (5, 13, 12, 1)$
79 : $P_{1743} = (14, 11, 5, 1)$	133 : $P_{2843} = (10, 0, 10, 1)$	187 : $P_{3567} = (14, 13, 12, 1)$
80 : $P_{1749} = (4, 12, 5, 1)$	134 : $P_{2844} = (11, 0, 10, 1)$	188 : $P_{3570} = (1, 14, 12, 1)$
81 : $P_{1756} = (11, 12, 5, 1)$	135 : $P_{2850} = (1, 1, 10, 1)$	189 : $P_{3576} = (7, 14, 12, 1)$
82 : $P_{1763} = (2, 13, 5, 1)$	136 : $P_{2859} = (10, 1, 10, 1)$	190 : $P_{3641} = (8, 2, 13, 1)$
83 : $P_{1769} = (8, 13, 5, 1)$	137 : $P_{2882} = (1, 3, 10, 1)$	191 : $P_{3643} = (10, 2, 13, 1)$
84 : $P_{1785} = (8, 14, 5, 1)$	138 : $P_{2888} = (7, 3, 10, 1)$	192 : $P_{3666} = (1, 4, 13, 1)$
85 : $P_{1790} = (13, 14, 5, 1)$	139 : $P_{2902} = (5, 4, 10, 1)$	193 : $P_{3671} = (6, 4, 13, 1)$
86 : $P_{1795} = (2, 15, 5, 1)$	140 : $P_{2904} = (7, 4, 10, 1)$	194 : $P_{3759} = (14, 9, 13, 1)$
87 : $P_{1842} = (1, 2, 6, 1)$	141 : $P_{2916} = (3, 5, 10, 1)$	195 : $P_{3797} = (4, 12, 13, 1)$
88 : $P_{1853} = (12, 2, 6, 1)$	142 : $P_{2924} = (11, 5, 10, 1)$	196 : $P_{3808} = (15, 12, 13, 1)$
89 : $P_{1882} = (9, 4, 6, 1)$	143 : $P_{2962} = (1, 8, 10, 1)$	197 : $P_{3811} = (2, 13, 13, 1)$

198 : $P_{3813} = (4, 13, 13, 1)$	208 : $P_{4085} = (4, 14, 14, 1)$	218 : $P_{4229} = (4, 7, 15, 1)$
199 : $P_{3843} = (2, 15, 13, 1)$	209 : $P_{4088} = (7, 14, 14, 1)$	219 : $P_{4293} = (4, 11, 15, 1)$
200 : $P_{3848} = (7, 15, 13, 1)$	210 : $P_{4165} = (4, 3, 15, 1)$	220 : $P_{4297} = (8, 11, 15, 1)$
201 : $P_{3880} = (7, 1, 14, 1)$	211 : $P_{4174} = (13, 3, 15, 1)$	221 : $P_{4308} = (3, 12, 15, 1)$
202 : $P_{3881} = (8, 1, 14, 1)$	212 : $P_{4180} = (3, 4, 15, 1)$	222 : $P_{4314} = (9, 12, 15, 1)$
203 : $P_{3975} = (6, 7, 14, 1)$	213 : $P_{4189} = (12, 4, 15, 1)$	223 : $P_{4332} = (11, 13, 15, 1)$
204 : $P_{4014} = (13, 9, 14, 1)$	214 : $P_{4202} = (9, 5, 15, 1)$	224 : $P_{4335} = (14, 13, 15, 1)$
205 : $P_{4016} = (15, 9, 14, 1)$	215 : $P_{4210} = (1, 6, 15, 1)$	
206 : $P_{4036} = (3, 11, 14, 1)$	216 : $P_{4218} = (9, 6, 15, 1)$	
207 : $P_{4037} = (4, 11, 14, 1)$	217 : $P_{4228} = (3, 7, 15, 1)$	