No. 22 C_{3h} -6 [hexagonal] (axial)

表 1 rank 0

No.	expression
1	1

表 2 rank 1

No.	expression
2	Z
3	X
4	Y

表 3 rank 2

No.	expression
5	$-\frac{X^2}{2} - \frac{Y^2}{2} + Z^2$
6	$\sqrt{3}XZ$
7	$\sqrt{3}YZ$
8	$\frac{\sqrt{3}\left(X^2-Y^2\right)}{2}$
9	$-\sqrt{3}XY$

表 4 rank 3

No.	expression
10	$-\frac{Z\left(3X^2+3Y^2-2Z^2\right)}{2}$
11	$\frac{\sqrt{10}Y\left(3X^2-Y^2\right)}{4}$
12	$\frac{\sqrt{10}X\left(X^2-3Y^2\right)}{4}$
13	$\frac{\sqrt{15}Z\left(X^2-Y^2\right)}{2}$
14	$-\sqrt{15}XYZ$
15	$\frac{\sqrt{6}X\left(-X^2-Y^2+4Z^2\right)}{4}$
16	$\frac{\sqrt{6}Y\left(-X^2-Y^2+4Z^2\right)}{4}$

表 5　rank 4

No.	expression
17	$\frac{\sqrt{70}XZ\left(X^2-3Y^2\right)}{4}$
18	$\frac{\sqrt{70}YZ\left(3X^2-Y^2\right)}{4}$
19	$\frac{3X^4}{8} + \frac{3X^2Y^2}{4} - 3X^2Z^2 + \frac{3Y^4}{8} - 3Y^2Z^2 + Z^4$
20	$\frac{\sqrt{10}XZ\left(-3X^2-3Y^2+4Z^2\right)}{4}$
21	$\frac{\sqrt{10}YZ\left(-3X^2-3Y^2+4Z^2\right)}{4}$
22	$\frac{\sqrt{35}\left(X^4-6X^2Y^2+Y^4\right)}{8}$
23	$\frac{\sqrt{35}XY\left(X^2-Y^2\right)}{2}$
24	$\frac{\sqrt{5}\left(-X^2+Y^2\right)\left(X^2+Y^2-6Z^2\right)}{4}$
25	$\frac{\sqrt{5}XY\left(X^2+Y^2-6Z^2\right)}{2}$

表 6　rank 5

No.	expression
26	$\frac{Z\left(15X^4+30X^2Y^2-40X^2Z^2+15Y^4-40Y^2Z^2+8Z^4\right)}{8}$
27	$-\frac{\sqrt{70}Y\left(3X^2-Y^2\right)\left(X^2+Y^2-8Z^2\right)}{16}$
28	$-\frac{\sqrt{70}X\left(X^2-3Y^2\right)\left(X^2+Y^2-8Z^2\right)}{16}$
29	$\frac{3\sqrt{35}Z\left(X^4-6X^2Y^2+Y^4\right)}{8}$
30	$\frac{3\sqrt{35}XYZ\left(X^2-Y^2\right)}{2}$
31	$\frac{\sqrt{105}Z\left(-X^2+Y^2\right)\left(X^2+Y^2-2Z^2\right)}{4}$
32	$\frac{\sqrt{105}XYZ\left(X^2+Y^2-2Z^2\right)}{2}$
33	$\frac{3\sqrt{14}X\left(X^4-10X^2Y^2+5Y^4\right)}{16}$
34	$\frac{3\sqrt{14}Y\left(-5X^4+10X^2Y^2-Y^4\right)}{16}$
35	$\frac{\sqrt{15}X\left(X^4+2X^2Y^2-12X^2Z^2+Y^4-12Y^2Z^2+8Z^4\right)}{8}$
36	$\frac{\sqrt{15}Y\left(X^4+2X^2Y^2-12X^2Z^2+Y^4-12Y^2Z^2+8Z^4\right)}{8}$

表 7   rank 6

No.	expression
37	$-\frac{\sqrt{210}XZ\left(X^2-3Y^2\right)\left(3X^2+3Y^2-8Z^2\right)}{16}$
38	$-\frac{\sqrt{210}YZ\left(3X^2-Y^2\right)\left(3X^2+3Y^2-8Z^2\right)}{16}$
39	$-\frac{5X^6}{16}-\frac{15X^4Y^2}{16}+\frac{45X^4Z^2}{8}-\frac{15X^2Y^4}{16}+\frac{45X^2Y^2Z^2}{4}-\frac{15X^2Z^4}{2}-\frac{5Y^6}{16}+\frac{45Y^4Z^2}{8}-\frac{15Y^2Z^4}{2}+Z^6$
40	$\frac{\sqrt{462}(X-Y)(X+Y)\left(X^2-4XY+Y^2\right)\left(X^2+4XY+Y^2\right)}{32}$
41	$\frac{\sqrt{462}XY\left(X^2-3Y^2\right)\left(3X^2-Y^2\right)}{16}$
42	$\frac{3\sqrt{154}XZ\left(X^4-10X^2Y^2+5Y^4\right)}{16}$
43	$\frac{3\sqrt{154}YZ\left(-5X^4+10X^2Y^2-Y^4\right)}{16}$
44	$\frac{\sqrt{21}XZ\left(5X^4+10X^2Y^2-20X^2Z^2+5Y^4-20Y^2Z^2+8Z^4\right)}{8}$
45	$\frac{\sqrt{21}YZ\left(5X^4+10X^2Y^2-20X^2Z^2+5Y^4-20Y^2Z^2+8Z^4\right)}{8}$
46	$\frac{3\sqrt{7}\left(X^2+Y^2-10Z^2\right)\left(-X^4+6X^2Y^2-Y^4\right)}{16}$
47	$-\frac{3\sqrt{7}XY\left(X^2-Y^2\right)\left(X^2+Y^2-10Z^2\right)}{4}$
48	$\frac{\sqrt{210}\left(X^2-Y^2\right)\left(X^4+2X^2Y^2-16X^2Z^2+Y^4-16Y^2Z^2+16Z^4\right)}{32}$
49	$\frac{\sqrt{210}XY\left(-X^4-2X^2Y^2+16X^2Z^2-Y^4+16Y^2Z^2-16Z^4\right)}{16}$

表 8   rank 7

No.	expression
50	$\frac{\sqrt{6006}XYZ\left(X^2-3Y^2\right)\left(3X^2-Y^2\right)}{16}$
51	$-\frac{Z\left(35X^6+105X^4Y^2-210X^4Z^2+105X^2Y^4-420X^2Y^2Z^2+168X^2Z^4+35Y^6-210Y^4Z^2+168Y^2Z^4-16Z^6\right)}{16}$
52	$\frac{\sqrt{6006}Z(X-Y)(X+Y)\left(X^2-4XY+Y^2\right)\left(X^2+4XY+Y^2\right)}{32}$
53	$\frac{\sqrt{21}Y\left(3X^2-Y^2\right)\left(3X^4+6X^2Y^2-60X^2Z^2+3Y^4-60Y^2Z^2+80Z^4\right)}{32}$
54	$\frac{\sqrt{21}X\left(X^2-3Y^2\right)\left(3X^4+6X^2Y^2-60X^2Z^2+3Y^4-60Y^2Z^2+80Z^4\right)}{32}$
55	$\frac{\sqrt{231}Z\left(3X^2+3Y^2-10Z^2\right)\left(-X^4+6X^2Y^2-Y^4\right)}{16}$
56	$-\frac{\sqrt{231}XYZ\left(X^2-Y^2\right)\left(3X^2+3Y^2-10Z^2\right)}{4}$
57	$\frac{\sqrt{42}Z\left(X^2-Y^2\right)\left(15X^4+30X^2Y^2-80X^2Z^2+15Y^4-80Y^2Z^2+48Z^4\right)}{32}$
58	$\frac{\sqrt{42}XYZ\left(-15X^4-30X^2Y^2+80X^2Z^2-15Y^4+80Y^2Z^2-48Z^4\right)}{16}$
59	$\frac{\sqrt{429}X\left(X^6-21X^4Y^2+35X^2Y^4-7Y^6\right)}{32}$
60	$\frac{\sqrt{429}Y\left(7X^6-35X^4Y^2+21X^2Y^4-Y^6\right)}{32}$
61	$\frac{\sqrt{231}X\left(X^2+Y^2-12Z^2\right)\left(-X^4+10X^2Y^2-5Y^4\right)}{32}$
62	$\frac{\sqrt{231}Y\left(X^2+Y^2-12Z^2\right)\left(5X^4-10X^2Y^2+Y^4\right)}{32}$
63	$\frac{\sqrt{7}X\left(-5X^6-15X^4Y^2+120X^4Z^2-15X^2Y^4+240X^2Y^2Z^2-240X^2Z^4-5Y^6+120Y^4Z^2-240Y^2Z^4+64Z^6\right)}{32}$
64	$\frac{\sqrt{7}Y\left(-5X^6-15X^4Y^2+120X^4Z^2-15X^2Y^4+240X^2Y^2Z^2-240X^2Z^4-5Y^6+120Y^4Z^2-240Y^2Z^4+64Z^6\right)}{32}$

表 9   rank 8

No.	expression
65	$\frac{\sqrt{1155}XZ\left(X^2-3Y^2\right)\left(3X^4+6X^2Y^2-20X^2Z^2+3Y^4-20Y^2Z^2+16Z^4\right)}{32}$
66	$\frac{\sqrt{1155}YZ\left(3X^2-Y^2\right)\left(3X^4+6X^2Y^2-20X^2Z^2+3Y^4-20Y^2Z^2+16Z^4\right)}{32}$
67	$\frac{35X^8}{128}+\frac{35X^6Y^2}{32}-\frac{35X^6Z^2}{4}+\frac{105X^4Y^4}{64}-\frac{105X^4Y^2Z^2}{4}+\frac{105X^4Z^4}{4}+\frac{35X^2Y^6}{32}-\frac{105X^2Y^4Z^2}{4}+\frac{105X^2Y^2Z^4}{2}-14X^2Z^6+\frac{35Y^8}{128}-\frac{35Y^6Z^2}{4}+\frac{105Y^4Z^4}{4}-14Y^2Z^6+Z^8$
68	$-\frac{\sqrt{858}(X-Y)(X+Y)\left(X^2+Y^2-14Z^2\right)\left(X^2-4XY+Y^2\right)\left(X^2+4XY+Y^2\right)}{64}$
69	$-\frac{\sqrt{858}XY\left(X^2-3Y^2\right)\left(3X^2-Y^2\right)\left(X^2+Y^2-14Z^2\right)}{32}$
70	$\frac{3\sqrt{715}XZ\left(X^6-21X^4Y^2+35X^2Y^4-7Y^6\right)}{32}$
71	$\frac{3\sqrt{715}YZ\left(7X^6-35X^4Y^2+21X^2Y^4-Y^6\right)}{32}$
72	$\frac{3\sqrt{1001}XZ\left(X^2+Y^2-4Z^2\right)\left(-X^4+10X^2Y^2-5Y^4\right)}{32}$
73	$\frac{3\sqrt{1001}YZ\left(X^2+Y^2-4Z^2\right)\left(5X^4-10X^2Y^2+Y^4\right)}{32}$
74	$\frac{3XZ\left(-35X^6-105X^4Y^2+280X^4Z^2-105X^2Y^4+560X^2Y^2Z^2-336X^2Z^4-35Y^6+280Y^4Z^2-336Y^2Z^4+64Z^6\right)}{32}$
75	$\frac{3YZ\left(-35X^6-105X^4Y^2+280X^4Z^2-105X^2Y^4+560X^2Y^2Z^2-336X^2Z^4-35Y^6+280Y^4Z^2-336Y^2Z^4+64Z^6\right)}{32}$
76	$\frac{3\sqrt{715}\left(X^8-28X^6Y^2+70X^4Y^4-28X^2Y^6+Y^8\right)}{128}$
77	$\frac{3\sqrt{715}XY\left(-X^6+7X^4Y^2-7X^2Y^4+Y^6\right)}{16}$
78	$\frac{3\sqrt{77}\left(X^4-6X^2Y^2+Y^4\right)\left(X^4+2X^2Y^2-24X^2Z^2+Y^4-24Y^2Z^2+40Z^4\right)}{64}$
79	$\frac{3\sqrt{77}XY\left(X^2-Y^2\right)\left(X^4+2X^2Y^2-24X^2Z^2+Y^4-24Y^2Z^2+40Z^4\right)}{16}$
80	$\frac{3\sqrt{70}\left(-X^2+Y^2\right)\left(X^6+3X^4Y^2-30X^4Z^2+3X^2Y^4-60X^2Y^2Z^2+80X^2Z^4+Y^6-30Y^4Z^2+80Y^2Z^4-32Z^6\right)}{64}$
81	$\frac{3\sqrt{70}XY\left(X^6+3X^4Y^2-30X^4Z^2+3X^2Y^4-60X^2Y^2Z^2+80X^2Z^4+Y^6-30Y^4Z^2+80Y^2Z^4-32Z^6\right)}{32}$

表 10   rank 9

No.	expression
82	$-\dfrac{\sqrt{4290}XYZ\left(X^2-3Y^2\right)\left(3X^2-Y^2\right)\left(3X^2+3Y^2-14Z^2\right)}{32}$
83	$\dfrac{Z\left(315X^8+1260X^6Y^2-3360X^6Z^2+1890X^4Y^4-10080X^4Y^2Z^2+6048X^4Z^4+1260X^2Y^6-10080X^2Y^4Z^2+12096X^2Y^2Z^4-2304X^2Z^6+315Y^8-3360Y^6Z^2+6048Y^4Z^4-2304Y^2Z^6+128Z^8\right)}{128}$
84	$-\dfrac{\sqrt{4290}Z(X-Y)(X+Y)\left(X^2-4XY+Y^2\right)\left(X^2+4XY+Y^2\right)\left(3X^2+3Y^2-14Z^2\right)}{64}$
85	$\dfrac{\sqrt{24310}Y\left(3X^2-Y^2\right)\left(3X^6-27X^4Y^2+33X^2Y^4-Y^6\right)}{256}$
86	$-\dfrac{\sqrt{2310}Y\left(3X^2-Y^2\right)\left(X^6+3X^4Y^2-36X^4Z^2+3X^2Y^4-72X^2Y^2Z^2+120X^2Z^4+Y^6-36Y^4Z^2+120Y^2Z^4-64Z^6\right)}{128}$
87	$\dfrac{\sqrt{24310}X\left(X^2-3Y^2\right)\left(X^6-33X^4Y^2+27X^2Y^4-3Y^6\right)}{256}$
88	$-\dfrac{\sqrt{2310}X\left(X^2-3Y^2\right)\left(X^6+3X^4Y^2-36X^4Z^2+3X^2Y^4-72X^2Y^2Z^2+120X^2Z^4+Y^6-36Y^4Z^2+120Y^2Z^4-64Z^6\right)}{128}$
89	$\dfrac{3\sqrt{12155}Z\left(X^8-28X^6Y^2+70X^4Y^4-28X^2Y^6+Y^8\right)}{128}$
90	$\dfrac{3\sqrt{12155}XYZ\left(-X^6+7X^4Y^2-7X^2Y^4+Y^6\right)}{16}$
91	$\dfrac{3\sqrt{5005}Z\left(X^4-6X^2Y^2+Y^4\right)\left(X^4+2X^2Y^2-8X^2Z^2+Y^4-8Y^2Z^2+8Z^4\right)}{64}$
92	$\dfrac{3\sqrt{5005}XYZ\left(X^2-Y^2\right)\left(X^4+2X^2Y^2-8X^2Z^2+Y^4-8Y^2Z^2+8Z^4\right)}{16}$
93	$\dfrac{3\sqrt{110}Z\left(-X^2+Y^2\right)\left(7X^6+21X^4Y^2-70X^4Z^2+21X^2Y^4-140X^2Y^2Z^2+112X^2Z^4+7Y^6-70Y^4Z^2+112Y^2Z^4-32Z^6\right)}{64}$
94	$\dfrac{3\sqrt{110}XYZ\left(7X^6+21X^4Y^2-70X^4Z^2+21X^2Y^4-140X^2Y^2Z^2+112X^2Z^4+7Y^6-70Y^4Z^2+112Y^2Z^4-32Z^6\right)}{32}$
95	$\dfrac{3\sqrt{1430}X\left(X^2+Y^2-16Z^2\right)\left(-X^6+21X^4Y^2-35X^2Y^4+7Y^6\right)}{256}$
96	$-\dfrac{3\sqrt{1430}Y\left(X^2+Y^2-16Z^2\right)\left(7X^6-35X^4Y^2+21X^2Y^4-Y^6\right)}{256}$
97	$\dfrac{3\sqrt{286}X\left(X^4-10X^2Y^2+5Y^4\right)\left(X^4+2X^2Y^2-28X^2Z^2+Y^4-28Y^2Z^2+56Z^4\right)}{128}$
98	$-\dfrac{3\sqrt{286}Y\left(5X^4-10X^2Y^2+Y^4\right)\left(X^4+2X^2Y^2-28X^2Z^2+Y^4-28Y^2Z^2+56Z^4\right)}{128}$
99	$\dfrac{3\sqrt{5}X\left(7X^8+28X^6Y^2-280X^6Z^2+42X^4Y^4-840X^4Y^2Z^2+1120X^4Z^4+28X^2Y^6-840X^2Y^4Z^2+2240X^2Y^2Z^4-896X^2Z^6+7Y^8-280Y^6Z^2+1120Y^4Z^4-896Y^2Z^6+128Z^8\right)}{128}$
100	$\dfrac{3\sqrt{5}Y\left(7X^8+28X^6Y^2-280X^6Z^2+42X^4Y^4-840X^4Y^2Z^2+1120X^4Z^4+28X^2Y^6-840X^2Y^4Z^2+2240X^2Y^2Z^4-896X^2Z^6+7Y^8-280Y^6Z^2+1120Y^4Z^4-896Y^2Z^6+128Z^8\right)}{128}$

表 11　rank 10

No.	expression
101	$\frac{\sqrt{461890}XZ(X^2-3Y^2)(X^6-33X^4Y^2+27X^2Y^4-3Y^6)}{256}$
102	$-\frac{\sqrt{4290}XZ(X^2-3Y^2)(7X^6+21X^4Y^2-84X^4Z^2+21X^2Y^4-168X^2Y^2Z^2+168X^2Z^4+7Y^6-84Y^4Z^2+168Y^2Z^4-64Z^6)}{128}$
103	$\frac{\sqrt{461890}YZ(3X^2-Y^2)(3X^6-27X^4Y^2+33X^2Y^4-Y^6)}{256}$
104	$-\frac{\sqrt{4290}YZ(3X^2-Y^2)(7X^6+21X^4Y^2-84X^4Z^2+21X^2Y^4-168X^2Y^2Z^2+168X^2Z^4+7Y^6-84Y^4Z^2+168Y^2Z^4-64Z^6)}{128}$
105	$-\frac{63X^{10}}{256}-\frac{315X^8Y^2}{256}+\frac{1575X^8Z^2}{128}-\frac{315X^6Y^4}{128}+\frac{1575X^6Y^2Z^2}{32}-\frac{525X^6Z^4}{8}-\frac{315X^4Y^6}{128}+\frac{4725X^4Y^4Z^2}{64}-\frac{1575X^4Y^2Z^4}{8}+\frac{315X^4Z^6}{4}-\frac{315X^2Y^8}{256}+\frac{1575X^2Y^6Z^2}{32}-\frac{1575X^2Y^4Z^4}{8}+\frac{315X^2Y^2Z^6}{2}-\frac{45X^2Z^8}{2}-\frac{63Y^{10}}{256}+\frac{1575Y^8Z^2}{128}-\frac{525Y^6Z^4}{8}+\frac{315Y^4Z^6}{4}-\frac{45Y^2Z^8}{2}+Z^{10}$
106	$\frac{\sqrt{4290}(X-Y)(X+Y)(X^2-4XY+Y^2)(X^2+4XY+Y^2)(3X^4+6X^2Y^2-96X^2Z^2+3Y^4-96Y^2Z^2+224Z^4)}{512}$
107	$\frac{\sqrt{4290}XY(X^2-3Y^2)(3X^2-Y^2)(3X^4+6X^2Y^2-96X^2Z^2+3Y^4-96Y^2Z^2+224Z^4)}{256}$
108	$\frac{\sqrt{72930}XZ(3X^2+3Y^2-16Z^2)(-X^6+21X^4Y^2-35X^2Y^4+7Y^6)}{256}$
109	$-\frac{\sqrt{72930}YZ(3X^2+3Y^2-16Z^2)(7X^6-35X^4Y^2+21X^2Y^4-Y^6)}{256}$
110	$\frac{\sqrt{858}XZ(X^4-10X^2Y^2+5Y^4)(15X^4+30X^2Y^2-140X^2Z^2+15Y^4-140Y^2Z^2+168Z^4)}{128}$
111	$-\frac{\sqrt{858}YZ(5X^4-10X^2Y^2+Y^4)(15X^4+30X^2Y^2-140X^2Z^2+15Y^4-140Y^2Z^2+168Z^4)}{128}$
112	$\frac{\sqrt{55}XZ(63X^8+252X^6Y^2-840X^6Z^2+378X^4Y^4-2520X^4Y^2Z^2+2016X^4Z^4+252X^2Y^6-2520X^2Y^4Z^2+4032X^2Y^2Z^4-1152X^2Z^6+63Y^8-840Y^6Z^2+2016Y^4Z^4-1152Y^2Z^6+128Z^8)}{128}$
113	$\frac{\sqrt{55}YZ(63X^8+252X^6Y^2-840X^6Z^2+378X^4Y^4-2520X^4Y^2Z^2+2016X^4Z^4+252X^2Y^6-2520X^2Y^4Z^2+4032X^2Y^2Z^4-1152X^2Z^6+63Y^8-840Y^6Z^2+2016Y^4Z^4-1152Y^2Z^6+128Z^8)}{128}$
114	$\frac{\sqrt{92378}(X^{10}-45X^8Y^2+210X^6Y^4-210X^4Y^6+45X^2Y^8-Y^{10})}{512}$
115	$\frac{\sqrt{92378}XY(5X^8-60X^6Y^2+126X^4Y^4-60X^2Y^6+5Y^8)}{256}$
116	$\frac{\sqrt{12155}(X^2+Y^2-18Z^2)(-X^8+28X^6Y^2-70X^4Y^4+28X^2Y^6-Y^8)}{256}$
117	$\frac{\sqrt{12155}XY(X^2+Y^2-18Z^2)(X^6-7X^4Y^2+7X^2Y^4-Y^6)}{32}$
118	$\frac{\sqrt{2145}(-X^4+6X^2Y^2-Y^4)(X^6+3X^4Y^2-42X^4Z^2+3X^2Y^4-84X^2Y^2Z^2+168X^2Z^4+Y^6-42Y^4Z^2+168Y^2Z^4-112Z^6)}{128}$
119	$-\frac{\sqrt{2145}XY(X^2-Y^2)(X^6+3X^4Y^2-42X^4Z^2+3X^2Y^4-84X^2Y^2Z^2+168X^2Z^4+Y^6-42Y^4Z^2+168Y^2Z^4-112Z^6)}{32}$
120	$\frac{\sqrt{165}(X^2-Y^2)(7X^8+28X^6Y^2-336X^6Z^2+42X^4Y^4-1008X^4Y^2Z^2+1680X^4Z^4+28X^2Y^6-1008X^2Y^4Z^2+3360X^2Y^2Z^4-1792X^2Z^6+7Y^8-336Y^6Z^2+1680Y^4Z^4-1792Y^2Z^6+384Z^8)}{256}$
121	$\frac{\sqrt{165}XY(-7X^8-28X^6Y^2+336X^6Z^2-42X^4Y^4+1008X^4Y^2Z^2-1680X^4Z^4-28X^2Y^6+1008X^2Y^4Z^2-3360X^2Y^2Z^4+1792X^2Z^6-7Y^8+336Y^6Z^2-1680Y^4Z^4+1792Y^2Z^6-384Z^8)}{128}$

表 12 rank 11

No.	expression
122	$\dfrac{\sqrt{14586}XYZ\left(X^2-3Y^2\right)\left(3X^2-Y^2\right)\left(15X^4+30X^2Y^2-160X^2Z^2+15Y^4-160Y^2Z^2+224Z^4\right)}{256}$
123	$-\dfrac{Z\left(693X^{10}+3465X^8Y^2-11550X^8Z^2+6930X^6Y^4-46200X^6Y^2Z^2+36960X^6Z^4+6930X^4Y^6-69300X^4Y^4Z^2+110880X^4Y^2Z^4-31680X^4Z^6+3465X^2Y^8-46200X^2Y^6Z^2+110880X^2Y^4Z^4-63360X^2Y^2Z^6+7040X^2Z^8+693Y^{10}-11550Y^8Z^2+36960Y^6Z^4-31680Y^4Z^6+7040Y^2Z^8-256Z^{10}\right)}{256}$
124	$\dfrac{\sqrt{14586}Z(X-Y)(X+Y)\left(X^2-4XY+Y^2\right)\left(X^2+4XY+Y^2\right)\left(15X^4+30X^2Y^2-160X^2Z^2+15Y^4-160Y^2Z^2+224Z^4\right)}{512}$
125	$-\dfrac{\sqrt{46189}Y\left(3X^2-Y^2\right)\left(X^2+Y^2-20Z^2\right)\left(3X^6-27X^4Y^2+33X^2Y^4-Y^6\right)}{512}$
126	$\dfrac{\sqrt{30030}Y\left(3X^2-Y^2\right)\left(X^8+4X^6Y^2-56X^6Z^2+6X^4Y^4-168X^4Y^2Z^2+336X^4Z^4+4X^2Y^6-168X^2Y^4Z^2+672X^2Y^2Z^4-448X^2Z^6+Y^8-56Y^6Z^2+336Y^4Z^4-448Y^2Z^6+128Z^8\right)}{512}$
127	$-\dfrac{\sqrt{46189}X\left(X^2-3Y^2\right)\left(X^2+Y^2-20Z^2\right)\left(X^6-33X^4Y^2+27X^2Y^4-3Y^6\right)}{512}$
128	$\dfrac{\sqrt{30030}X\left(X^2-3Y^2\right)\left(X^8+4X^6Y^2-56X^6Z^2+6X^4Y^4-168X^4Y^2Z^2+336X^4Z^4+4X^2Y^6-168X^2Y^4Z^2+672X^2Y^2Z^4-448X^2Z^6+Y^8-56Y^6Z^2+336Y^4Z^4-448Y^2Z^6+128Z^8\right)}{512}$
129	$\dfrac{\sqrt{1939938}Z\left(X^{10}-45X^8Y^2+210X^6Y^4-210X^4Y^6+45X^2Y^8-Y^{10}\right)}{512}$
130	$\dfrac{\sqrt{1939938}XYZ\left(5X^8-60X^6Y^2+126X^4Y^4-60X^2Y^6+5Y^8\right)}{256}$
131	$\dfrac{\sqrt{692835}Z\left(X^2+Y^2-6Z^2\right)\left(-X^8+28X^6Y^2-70X^4Y^4+28X^2Y^6-Y^8\right)}{256}$
132	$\dfrac{\sqrt{692835}XYZ\left(X^2+Y^2-6Z^2\right)\left(X^6-7X^4Y^2+7X^2Y^4-Y^6\right)}{32}$
133	$\dfrac{3\sqrt{1001}Z\left(-X^4+6X^2Y^2-Y^4\right)\left(5X^6+15X^4Y^2-70X^4Z^2+15X^2Y^4-140X^2Y^2Z^2+168X^2Z^4+5Y^6-70Y^4Z^2+168Y^2Z^4-80Z^6\right)}{128}$
134	$-\dfrac{3\sqrt{1001}XYZ\left(X^2-Y^2\right)\left(5X^6+15X^4Y^2-70X^4Z^2+15X^2Y^4-140X^2Y^2Z^2+168X^2Z^4+5Y^6-70Y^4Z^2+168Y^2Z^4-80Z^6\right)}{32}$
135	$\dfrac{\sqrt{2145}Z\left(X^2-Y^2\right)\left(21X^8+84X^6Y^2-336X^6Z^2+126X^4Y^4-1008X^4Y^2Z^2+1008X^4Z^4+84X^2Y^6-1008X^2Y^4Z^2+2016X^2Y^2Z^4-768X^2Z^6+21Y^8-336Y^6Z^2+1008Y^4Z^4-768Y^2Z^6+128Z^8\right)}{256}$
136	$\dfrac{\sqrt{2145}XYZ\left(-21X^8-84X^6Y^2+336X^6Z^2-126X^4Y^4+1008X^4Y^2Z^2-1008X^4Z^4-84X^2Y^6+1008X^2Y^4Z^2-2016X^2Y^2Z^4+768X^2Z^6-21Y^8+336Y^6Z^2-1008Y^4Z^4+768Y^2Z^6-128Z^8\right)}{128}$
137	$\dfrac{\sqrt{88179}X\left(X^{10}-55X^8Y^2+330X^6Y^4-462X^4Y^6+165X^2Y^8-11Y^{10}\right)}{512}$
138	$\dfrac{\sqrt{88179}Y\left(-11X^{10}+165X^8Y^2-462X^6Y^4+330X^4Y^6-55X^2Y^8+Y^{10}\right)}{512}$
139	$\dfrac{\sqrt{36465}X\left(X^6-21X^4Y^2+35X^2Y^4-7Y^6\right)\left(X^4+2X^2Y^2-36X^2Z^2+Y^4-36Y^2Z^2+96Z^4\right)}{512}$
140	$\dfrac{\sqrt{36465}Y\left(7X^6-35X^4Y^2+21X^2Y^4-Y^6\right)\left(X^4+2X^2Y^2-36X^2Z^2+Y^4-36Y^2Z^2+96Z^4\right)}{512}$
141	$\dfrac{3\sqrt{143}X\left(-X^4+10X^2Y^2-5Y^4\right)\left(5X^6+15X^4Y^2-240X^4Z^2+15X^2Y^4-480X^2Y^2Z^2+1120X^2Z^4+5Y^6-240Y^4Z^2+1120Y^2Z^4-896Z^6\right)}{512}$
142	$\dfrac{3\sqrt{143}Y\left(5X^4-10X^2Y^2+Y^4\right)\left(5X^6+15X^4Y^2-240X^4Z^2+15X^2Y^4-480X^2Y^2Z^2+1120X^2Z^4+5Y^6-240Y^4Z^2+1120Y^2Z^4-896Z^6\right)}{512}$
143	$\dfrac{\sqrt{66}X\left(-21X^{10}-105X^8Y^2+1260X^8Z^2-210X^6Y^4+5040X^6Y^2Z^2-8400X^6Z^4-210X^4Y^6+7560X^4Y^4Z^2-25200X^4Y^2Z^4+13440X^4Z^6-105X^2Y^8+5040X^2Y^6Z^2-25200X^2Y^4Z^4+26880X^2Y^2Z^6-5760X^2Z^8-21Y^{10}+1260Y^8Z^2-8400Y^6Z^4+13440Y^4Z^6-5760Y^2Z^8+512Z^{10}\right)}{512}$
144	$\dfrac{\sqrt{66}Y\left(-21X^{10}-105X^8Y^2+1260X^8Z^2-210X^6Y^4+5040X^6Y^2Z^2-8400X^6Z^4-210X^4Y^6+7560X^4Y^4Z^2-25200X^4Y^2Z^4+13440X^4Z^6-105X^2Y^8+5040X^2Y^6Z^2-25200X^2Y^4Z^4+26880X^2Y^2Z^6-5760X^2Z^8-21Y^{10}+1260Y^8Z^2-8400Y^6Z^4+13440Y^4Z^6-5760Y^2Z^8+512Z^{10}\right)}{512}$