No. 26 $D_{3h} - 1$ $-62m$ (-62m setting)   [hexagonal] (axial)

表 1   rank 0

No.	expression
1	1

表 2   rank 1

No.	expression
2	Z
3	$-Y$
4	X

表 3   rank 2

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

表 4   rank 3

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

表5 rank 4

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

表6 rank 5

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

表 7　rank 6

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

表 8　rank 7

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

表 9 rank 8

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

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	$\dfrac{\sqrt{24310}X\left(X^2-3Y^2\right)\left(X^6-33X^4Y^2+27X^2Y^4-3Y^6\right)}{256}$
84	$-\dfrac{\sqrt{2310}X\left(X^2-3Y^2\right)\left(X^6+3X^4Y^2-36X^4Z^2+3X^2Y^4-72X^2Y^2Z^2+120X^2Z^4+Y^6-36Y^4Z^2+120Y^2Z^4-64Z^6\right)}{128}$
85	$\dfrac{Z\left(315X^8+1260X^6Y^2-3360X^6Z^2+1890X^4Y^4-10080X^4Y^2Z^2+6048X^4Z^4+1260X^2Y^6-10080X^2Y^4Z^2+12096X^2Y^2Z^4-2304X^2Z^6+315Y^8-3360Y^6Z^2+6048Y^4Z^4-2304Y^2Z^6+128Z^8\right)}{128}$
86	$-\dfrac{\sqrt{4290}Z(X-Y)(X+Y)\left(X^2-4XY+Y^2\right)\left(X^2+4XY+Y^2\right)\left(3X^2+3Y^2-14Z^2\right)}{64}$
87	$\dfrac{\sqrt{24310}Y\left(3X^2-Y^2\right)\left(3X^6-27X^4Y^2+33X^2Y^4-Y^6\right)}{256}$
88	$-\dfrac{\sqrt{2310}Y\left(3X^2-Y^2\right)\left(X^6+3X^4Y^2-36X^4Z^2+3X^2Y^4-72X^2Y^2Z^2+120X^2Z^4+Y^6-36Y^4Z^2+120Y^2Z^4-64Z^6\right)}{128}$
89	$\dfrac{3\sqrt{12155}XYZ(X-Y)(X+Y)\left(X^2-2XY-Y^2\right)\left(X^2+2XY-Y^2\right)}{16}$
90	$\dfrac{3\sqrt{12155}Z\left(X^4-4X^3Y-6X^2Y^2+4XY^3+Y^4\right)\left(X^4+4X^3Y-6X^2Y^2-4XY^3+Y^4\right)}{128}$
91	$-\dfrac{3\sqrt{5005}XYZ(X-Y)(X+Y)\left(X^4+2X^2Y^2-8X^2Z^2+Y^4-8Y^2Z^2+8Z^4\right)}{16}$
92	$\dfrac{3\sqrt{5005}Z\left(X^2-2XY-Y^2\right)\left(X^2+2XY-Y^2\right)\left(X^4+2X^2Y^2-8X^2Z^2+Y^4-8Y^2Z^2+8Z^4\right)}{64}$
93	$-\dfrac{3\sqrt{110}XYZ\left(7X^6+21X^4Y^2-70X^4Z^2+21X^2Y^4-140X^2Y^2Z^2+112X^2Z^4+7Y^6-70Y^4Z^2+112Y^2Z^4-32Z^6\right)}{32}$
94	$-\dfrac{3\sqrt{110}Z(X-Y)(X+Y)\left(7X^6+21X^4Y^2-70X^4Z^2+21X^2Y^4-140X^2Y^2Z^2+112X^2Z^4+7Y^6-70Y^4Z^2+112Y^2Z^4-32Z^6\right)}{64}$
95	$\dfrac{3\sqrt{1430}Y\left(X^2+Y^2-16Z^2\right)\left(7X^6-35X^4Y^2+21X^2Y^4-Y^6\right)}{256}$
96	$-\dfrac{3\sqrt{1430}X\left(X^2+Y^2-16Z^2\right)\left(X^6-21X^4Y^2+35X^2Y^4-7Y^6\right)}{256}$
97	$\dfrac{3\sqrt{286}Y\left(5X^4-10X^2Y^2+Y^4\right)\left(X^4+2X^2Y^2-28X^2Z^2+Y^4-28Y^2Z^2+56Z^4\right)}{128}$
98	$\dfrac{3\sqrt{286}X\left(X^4-10X^2Y^2+5Y^4\right)\left(X^4+2X^2Y^2-28X^2Z^2+Y^4-28Y^2Z^2+56Z^4\right)}{128}$
99	$-\dfrac{3\sqrt{5}Y\left(7X^8+28X^6Y^2-280X^6Z^2+42X^4Y^4-840X^4Y^2Z^2+1120X^4Z^4+28X^2Y^6-840X^2Y^4Z^2+2240X^2Y^2Z^4-896X^2Z^6+7Y^8-280Y^6Z^2+1120Y^4Z^4-896Y^2Z^6+128Z^8\right)}{128}$
100	$\dfrac{3\sqrt{5}X\left(7X^8+28X^6Y^2-280X^6Z^2+42X^4Y^4-840X^4Y^2Z^2+1120X^4Z^4+28X^2Y^6-840X^2Y^4Z^2+2240X^2Y^2Z^4-896X^2Z^6+7Y^8-280Y^6Z^2+1120Y^4Z^4-896Y^2Z^6+128Z^8\right)}{128}$

表 11　rank 10

No.	expression
101	$\dfrac{\sqrt{461890}\,YZ\left(3X^2-Y^2\right)\left(3X^6-27X^4Y^2+33X^2Y^4-Y^6\right)}{256}$
102	$-\dfrac{\sqrt{4290}\,YZ\left(3X^2-Y^2\right)\left(7X^6+21X^4Y^2-84X^4Z^2+21X^2Y^4-168X^2Y^2Z^2+168X^2Z^4+7Y^6-84Y^4Z^2+168Y^2Z^4-64Z^6\right)}{128}$
103	$-\dfrac{63X^{10}}{256}-\dfrac{315X^8Y^2}{256}+\dfrac{1575X^8Z^2}{128}-\dfrac{315X^6Y^4}{128}+\dfrac{1575X^6Y^2Z^2}{32}-\dfrac{525X^6Z^4}{8}-\dfrac{315X^4Y^6}{128}+\dfrac{4725X^4Y^4Z^2}{64}-\dfrac{1575X^4Y^2Z^4}{8}+\dfrac{315X^4Z^6}{4}-\dfrac{315X^2Y^8}{256}+\dfrac{1575X^2Y^6Z^2}{32}-\dfrac{1575X^2Y^4Z^4}{8}+\dfrac{315X^2Y^2Z^6}{2}-\dfrac{45X^2Z^8}{2}-\dfrac{63Y^{10}}{256}+\dfrac{1575Y^8Z^2}{128}-\dfrac{525Y^6Z^4}{8}+\dfrac{315Y^4Z^6}{4}-\dfrac{45Y^2Z^8}{2}+Z^{10}$
104	$\dfrac{\sqrt{4290}\,(X-Y)(X+Y)\left(X^2-4XY+Y^2\right)\left(X^2+4XY+Y^2\right)\left(3X^4+6X^2Y^2-96X^2Z^2+3Y^4-96Y^2Z^2+224Z^4\right)}{512}$
105	$\dfrac{\sqrt{461890}\,XZ\left(X^2-3Y^2\right)\left(X^6-33X^4Y^2+27X^2Y^4-3Y^6\right)}{256}$
106	$-\dfrac{\sqrt{4290}\,XZ\left(X^2-3Y^2\right)\left(7X^6+21X^4Y^2-84X^4Z^2+21X^2Y^4-168X^2Y^2Z^2+168X^2Z^4+7Y^6-84Y^4Z^2+168Y^2Z^4-64Z^6\right)}{128}$
107	$\dfrac{\sqrt{4290}\,XY\left(X^2-3Y^2\right)\left(3X^2-Y^2\right)\left(3X^4+6X^2Y^2-96X^2Z^2+3Y^4-96Y^2Z^2+224Z^4\right)}{256}$
108	$\dfrac{\sqrt{72930}\,YZ\left(3X^2+3Y^2-16Z^2\right)\left(7X^6-35X^4Y^2+21X^2Y^4-Y^6\right)}{256}$
109	$-\dfrac{\sqrt{72930}\,XZ\left(3X^2+3Y^2-16Z^2\right)\left(X^6-21X^4Y^2+35X^2Y^4-7Y^6\right)}{256}$
110	$\dfrac{\sqrt{858}\,YZ\left(5X^4-10X^2Y^2+Y^4\right)\left(15X^4+30X^2Y^2-140X^2Z^2+15Y^4-140Y^2Z^2+168Z^4\right)}{128}$
111	$\dfrac{\sqrt{858}\,XZ\left(X^4-10X^2Y^2+5Y^4\right)\left(15X^4+30X^2Y^2-140X^2Z^2+15Y^4-140Y^2Z^2+168Z^4\right)}{128}$
112	$-\dfrac{\sqrt{55}\,YZ\left(63X^8+252X^6Y^2-840X^6Z^2+378X^4Y^4-2520X^4Y^2Z^2+2016X^4Z^4+252X^2Y^6-2520X^2Y^4Z^2+4032X^2Y^2Z^4-1152X^2Z^6+63Y^8-840Y^6Z^2+2016Y^4Z^4-1152Y^2Z^6+128Z^8\right)}{128}$
113	$\dfrac{\sqrt{55}\,XZ\left(63X^8+252X^6Y^2-840X^6Z^2+378X^4Y^4-2520X^4Y^2Z^2+2016X^4Z^4+252X^2Y^6-2520X^2Y^4Z^2+4032X^2Y^2Z^4-1152X^2Z^6+63Y^8-840Y^6Z^2+2016Y^4Z^4-1152Y^2Z^6+128Z^8\right)}{128}$
114	$-\dfrac{\sqrt{92378}\,XY\left(X^4-10X^2Y^2+5Y^4\right)\left(5X^4-10X^2Y^2+Y^4\right)}{256}$
115	$\dfrac{\sqrt{92378}\,(X-Y)(X+Y)\left(X^4-4X^3Y-14X^2Y^2-4XY^3+Y^4\right)\left(X^4+4X^3Y-14X^2Y^2+4XY^3+Y^4\right)}{512}$
116	$-\dfrac{\sqrt{12155}\,XY(X-Y)(X+Y)\left(X^2+Y^2-18Z^2\right)\left(X^2-2XY-Y^2\right)\left(X^2+2XY-Y^2\right)}{32}$
117	$-\dfrac{\sqrt{12155}\left(X^2+Y^2-18Z^2\right)\left(X^4-4X^3Y-6X^2Y^2+4XY^3+Y^4\right)\left(X^4+4X^3Y-6X^2Y^2-4XY^3+Y^4\right)}{256}$
118	$\dfrac{\sqrt{2145}\,XY(X-Y)(X+Y)\left(X^6+3X^4Y^2-42X^4Z^2+3X^2Y^4-84X^2Y^2Z^2+168X^2Z^4+Y^6-42Y^4Z^2+168Y^2Z^4-112Z^6\right)}{32}$
119	$-\dfrac{\sqrt{2145}\left(X^2-2XY-Y^2\right)\left(X^2+2XY-Y^2\right)\left(X^6+3X^4Y^2-42X^4Z^2+3X^2Y^4-84X^2Y^2Z^2+168X^2Z^4+Y^6-42Y^4Z^2+168Y^2Z^4-112Z^6\right)}{128}$
120	$\dfrac{\sqrt{165}\,XY\left(7X^8+28X^6Y^2-336X^6Z^2+42X^4Y^4-1008X^4Y^2Z^2+1680X^4Z^4+28X^2Y^6-1008X^2Y^4Z^2+3360X^2Y^2Z^4-1792X^2Z^6+7Y^8-336Y^6Z^2+1680Y^4Z^4-1792Y^2Z^6+384Z^8\right)}{128}$
121	$\dfrac{\sqrt{165}\,(X-Y)(X+Y)\left(7X^8+28X^6Y^2-336X^6Z^2+42X^4Y^4-1008X^4Y^2Z^2+1680X^4Z^4+28X^2Y^6-1008X^2Y^4Z^2+3360X^2Y^2Z^4-1792X^2Z^6+7Y^8-336Y^6Z^2+1680Y^4Z^4-1792Y^2Z^6+384Z^8\right)}{256}$

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	$-\dfrac{\sqrt{46189}\,X\left(X^2-3Y^2\right)\left(X^2+Y^2-20Z^2\right)\left(X^6-33X^4Y^2+27X^2Y^4-3Y^6\right)}{512}$
124	$\dfrac{\sqrt{30030}\,X\left(X^2-3Y^2\right)\left(X^8+4X^6Y^2-56X^6Z^2+6X^4Y^4-168X^4Y^2Z^2+336X^4Z^4+4X^2Y^6-168X^2Y^4Z^2+672X^2Y^2Z^4-448X^2Z^6+Y^8-56Y^6Z^2+336Y^4Z^4-448Y^2Z^6+128Z^8\right)}{512}$
125	$-\dfrac{Z\left(693X^{10}+3465X^8Y^2-11550X^8Z^2+6930X^6Y^4-46200X^6Y^2Z^2+36960X^6Z^4+6930X^4Y^6-69300X^4Y^4Z^2+110880X^4Y^2Z^4-31680X^4Z^6+3465X^2Y^8-46200X^2Y^6Z^2+110880X^2Y^4Z^4-63360X^2Y^2Z^6+7040X^2Z^8+693Y^{10}-11550Y^8Z^2+36960Y^6Z^4-31680Y^4Z^6+7040Y^2Z^8-256Z^{10}\right)}{256}$
126	$\dfrac{\sqrt{14586}\,Z(X-Y)(X+Y)\left(X^2-4XY+Y^2\right)\left(X^2+4XY+Y^2\right)\left(15X^4+30X^2Y^2-160X^2Z^2+15Y^4-160Y^2Z^2+224Z^4\right)}{512}$
127	$-\dfrac{\sqrt{46189}\,Y\left(3X^2-Y^2\right)\left(X^2+Y^2-20Z^2\right)\left(3X^6-27X^4Y^2+33X^2Y^4-Y^6\right)}{512}$
128	$\dfrac{\sqrt{30030}\,Y\left(3X^2-Y^2\right)\left(X^8+4X^6Y^2-56X^6Z^2+6X^4Y^4-168X^4Y^2Z^2+336X^4Z^4+4X^2Y^6-168X^2Y^4Z^2+672X^2Y^2Z^4-448X^2Z^6+Y^8-56Y^6Z^2+336Y^4Z^4-448Y^2Z^6+128Z^8\right)}{512}$
129	$-\dfrac{\sqrt{1939938}\,XYZ\left(X^4-10X^2Y^2+5Y^4\right)\left(5X^4-10X^2Y^2+Y^4\right)}{256}$
130	$\dfrac{\sqrt{1939938}\,Z(X-Y)(X+Y)\left(X^4-4X^3Y-14X^2Y^2-4XY^3+Y^4\right)\left(X^4+4X^3Y-14X^2Y^2+4XY^3+Y^4\right)}{512}$
131	$-\dfrac{\sqrt{692835}\,XYZ(X-Y)(X+Y)\left(X^2+Y^2-6Z^2\right)\left(X^2-2XY-Y^2\right)\left(X^2+2XY-Y^2\right)}{32}$
132	$-\dfrac{\sqrt{692835}\,Z\left(X^2+Y^2-6Z^2\right)\left(X^4-4X^3Y-6X^2Y^2+4XY^3+Y^4\right)\left(X^4+4X^3Y-6X^2Y^2-4XY^3+Y^4\right)}{256}$
133	$\dfrac{3\sqrt{1001}\,XYZ(X-Y)(X+Y)\left(5X^6+15X^4Y^2-70X^4Z^2+15X^2Y^4-140X^2Y^2Z^2+168X^2Z^4+5Y^6-70Y^4Z^2+168Y^2Z^4-80Z^6\right)}{32}$
134	$-\dfrac{3\sqrt{1001}\,Z\left(X^2-2XY-Y^2\right)\left(X^2+2XY-Y^2\right)\left(5X^6+15X^4Y^2-70X^4Z^2+15X^2Y^4-140X^2Y^2Z^2+168X^2Z^4+5Y^6-70Y^4Z^2+168Y^2Z^4-80Z^6\right)}{128}$
135	$\dfrac{\sqrt{2145}\,XYZ\left(21X^8+84X^6Y^2-336X^6Z^2+126X^4Y^4-1008X^4Y^2Z^2+1008X^4Z^4+84X^2Y^6-1008X^2Y^4Z^2+2016X^2Y^2Z^4-768X^2Z^6+21Y^8-336Y^6Z^2+1008Y^4Z^4-768Y^2Z^6+128Z^8\right)}{128}$
136	$\dfrac{\sqrt{2145}\,Z(X-Y)(X+Y)\left(21X^8+84X^6Y^2-336X^6Z^2+126X^4Y^4-1008X^4Y^2Z^2+1008X^4Z^4+84X^2Y^6-1008X^2Y^4Z^2+2016X^2Y^2Z^4-768X^2Z^6+21Y^8-336Y^6Z^2+1008Y^4Z^4-768Y^2Z^6+128Z^8\right)}{256}$
137	$\dfrac{\sqrt{88179}\,Y\left(11X^{10}-165X^8Y^2+462X^6Y^4-330X^4Y^6+55X^2Y^8-Y^{10}\right)}{512}$
138	$\dfrac{\sqrt{88179}\,X\left(X^{10}-55X^8Y^2+330X^6Y^4-462X^4Y^6+165X^2Y^8-11Y^{10}\right)}{512}$
139	$-\dfrac{\sqrt{36465}\,Y\left(7X^6-35X^4Y^2+21X^2Y^4-Y^6\right)\left(X^4+2X^2Y^2-36X^2Z^2+Y^4-36Y^2Z^2+96Z^4\right)}{512}$
140	$\dfrac{\sqrt{36465}\,X\left(X^6-21X^4Y^2+35X^2Y^4-7Y^6\right)\left(X^4+2X^2Y^2-36X^2Z^2+Y^4-36Y^2Z^2+96Z^4\right)}{512}$
141	$-\dfrac{3\sqrt{143}\,Y\left(5X^4-10X^2Y^2+Y^4\right)\left(5X^6+15X^4Y^2-240X^4Z^2+15X^2Y^4-480X^2Y^2Z^2+1120X^2Z^4+5Y^6-240Y^4Z^2+1120Y^2Z^4-896Z^6\right)}{512}$
142	$-\dfrac{3\sqrt{143}\,X\left(X^4-10X^2Y^2+5Y^4\right)\left(5X^6+15X^4Y^2-240X^4Z^2+15X^2Y^4-480X^2Y^2Z^2+1120X^2Z^4+5Y^6-240Y^4Z^2+1120Y^2Z^4-896Z^6\right)}{512}$
143	$\dfrac{\sqrt{66}\,Y\left(21X^{10}+105X^8Y^2-1260X^8Z^2+210X^6Y^4-5040X^6Y^2Z^2+8400X^6Z^4+210X^4Y^6-7560X^4Y^4Z^2+25200X^4Y^2Z^4-13440X^4Z^6+105X^2Y^8-5040X^2Y^6Z^2+25200X^2Y^4Z^4-26880X^2Y^2Z^6+5760X^2Z^8+21Y^{10}-1260Y^8Z^2+8400Y^6Z^4-13440Y^4Z^6+5760Y^2Z^8-512Z^{10}\right)}{512}$
144	$-\dfrac{\sqrt{66}\,X\left(21X^{10}+105X^8Y^2-1260X^8Z^2+210X^6Y^4-5040X^6Y^2Z^2+8400X^6Z^4+210X^4Y^6-7560X^4Y^4Z^2+25200X^4Y^2Z^4-13440X^4Z^6+105X^2Y^8-5040X^2Y^6Z^2+25200X^2Y^4Z^4-26880X^2Y^2Z^6+5760X^2Z^8+21Y^{10}-1260Y^8Z^2+8400Y^6Z^4-13440Y^4Z^6+5760Y^2Z^8-512Z^{10}\right)}{512}$