A computational approach to the perimeter-area inequality in a triangle

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Section 3. The equality case: A coordinate approach

The construction ideal CS. It is, as expected, of dimension 6, as the coordinates of ABC are free:

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restart : with(PolynomialIdeals) : with(Operators) :
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```
CS := <c^2-((b1-a1)^2 + (b2-a2)^2), b^2-((c1-a1)^2 + (c2-a2)^2), a^2-((b1
    -c1)^2 + (b2-c2)^2), h^2-((d1-c1)^2 + (d2-c2)^2), (d1-a1) * (b2-a2)-(d2
    -a2) * (b1-a1), (d1-c1) * (b1-a1) + (d2-c2) * (b2-a2)>;
```

$$CS := \langle (d1-a1)\,(b2-a2)-(d2-a2)\,(b1-a1), (d1-c1)\,(b1-a1)+(d2-c2)\,(b2-a2), a^2-(b1-c1)^2-(b2-c2)^2, b^2-(c1-a1)^2-(c2-a2)^2, c^2-(b1-a1)^2-(b2-a2)^2, h^2-(d1-c1)^2-(d2-c2)^2\rangle \quad \textbf{(1.1)}$$

```
HilbertDimension(CS);
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$$6 \quad \textbf{(1.2)}$$

```
EliminationIdeal(CS, {a1, a2, b1, b2, c1, c2});
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$$\langle 0\rangle \quad \textbf{(1.3)}$$

Now we proceed to find the prime decomposition of CS (in fact, the prime decomposition of its radical ideal):

```
PCS := PrimeDecomposition(CS);
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$$PCS := \langle c, a+b, b1-a1, b2-a2, a^2-a1^2+2\,a1\,c1-a2^2+2\,c2\,a2-c1^2-c2^2, -c1^2+2\,c1\,d1-c2^2+2\,c2\,d2-d1^2-d2^2+h^2\rangle, \langle c, b-a, b1-a1, b2-a2, a^2-a1^2+2\,a1\,c1-a2^2+2\,c2\,a2-c1^2-c2^2, -c1^2+2\,c1\,d1-c2^2+2\,c2\,d2-d1^2-d2^2+h^2\rangle, \langle c, a+b, b1-a1, b2-a2, d1-a1, a^2-a1^2+2\,a1\,c1-a2^2+2\,c2\,a2-c1^2-c2^2, -a1^2+2\,a1\,c1-c1^2-c2^2+2\,c2\,d2-d2^2+h^2\rangle, \langle c, a+b, b1-a1, b2-a2, d1-c1, -c2+d2+h, a^2-a1^2+2\,a1\,c1-a2^2+2\,c2\,a2-c1^2-c2^2\rangle, \langle c, a+b, b1-a1, b2-a2, d1-c1, c2-d2+h, a^2-a1^2+2\,a1\,c1-a2^2+2\,c2\,a2-c1^2-c2^2\rangle, \langle c, a+b, b1-a1, b2-a2, d2-a2, a^2-a1^2+2\,a1\,c1-a2^2+2\,c2\,a2-c1^2-c2^2, \quad \textbf{(1.4)}$$

$$-a2^2 + 2\,c2\,a2 - c1^2 + 2\,c1\,d1 - c2^2 - d1^2 + h^2\rangle, \langle c, a + b, b1 - a1, b2 - a2, d2 - c2, -c1 + d1 + h, a^2 - a1^2 + 2\,a1\,c1 - a2^2 + 2\,c2\,a2 - c1^2 - c2^2\rangle, \langle c, a + b, b1 - a1, b2 - a2, d2 - c2, c1 - d1 + h, a^2 - a1^2 + 2\,a1\,c1 - a2^2 + 2\,c2\,a2 - c1^2 - c2^2\rangle,$$
$$\langle c, b - a, b1 - a1, b2 - a2, d1 - a1, a^2 - a1^2 + 2\,a1\,c1 - a2^2 + 2\,c2\,a2 - c1^2 - c2^2, -a1^2 + 2\,a1\,c1 - c1^2 - c2^2 + 2\,c2\,d2 - d2^2 + h^2\rangle, \langle c, b - a, b1 - a1, b2 - a2, d1 - c1, -c2 + d2 + h, a^2 - a1^2 + 2\,a1\,c1 - a2^2 + 2\,c2\,a2 - c1^2 - c2^2\rangle, \langle c, b - a, b1 - a1, b2 - a2, d1 - c1, c2 - d2 + h, a^2 - a1^2 + 2\,a1\,c1 - a2^2 + 2\,c2\,a2 - c1^2 - c2^2\rangle,$$
$$\langle c, b - a, b1 - a1, b2 - a2, d2 - a2, a^2 - a1^2 + 2\,a1\,c1 - a2^2 + 2\,c2\,a2 - c1^2 - c2^2, -a2^2 + 2\,c2\,a2 - c1^2 + 2\,c1\,d1 - c2^2 - d1^2 + h^2\rangle, \langle c, b - a, b1 - a1, b2 - a2, d2 - c2, -c1 + d1 + h, a^2 - a1^2 + 2\,a1\,c1 - a2^2 + 2\,c2\,a2 - c1^2 - c2^2\rangle, \langle c, b - a, b1 - a1, b2 - a2, d2 - c2, c1 - d1 + h, a^2 - a1^2 + 2\,a1\,c1 - a2^2 + 2\,c2\,a2 - c1^2 - c2^2\rangle,$$
$$\langle -a1\,h + b1\,h - c\,c2 + d2\,c, a2\,h - b2\,h - c\,c1 + c\,d1, -a1\,b2 + a1\,d2 + a2\,b1 - a2\,d1 - d2\,b1 + d1\,b2, a^2 - b1^2 + 2\,b1\,c1 - b2^2 + 2\,b2\,c2 - c1^2 - c2^2, -a1^2 + 2\,a1\,c1 - a2^2 + 2\,c2\,a2 + b^2 - c1^2 - c2^2, -a1^2 + 2\,a1\,b1 - a2^2 + 2\,b2\,a2 - b1^2 - b2^2 + c^2, -a1\,b2 + a1\,c2 + a2\,b1 - a2\,c1 - b1\,c2 + b2\,c1 + c\,h, a1\,c1 - a1\,d1 + c2\,a2 - d2\,a2 - c1\,d1 - c2\,d2 + d1^2 + d2^2, a1\,c1 - a1\,d1 + c2\,a2 - d2\,a2 - b1\,c1 + d1\,b1 - b2\,c2 + d2\,b2, a1\,c1 - a1\,d1 + c2\,a2 - d2\,a2 - c1^2 + c1\,d1 - c2^2 + c2\,d2 + h^2, a1^2\,h - 2\,a1\,b1\,h - c\,a1\,b2 + c\,a1\,c2 + a2^2\,h + c\,a2\,b1 - 2\,a2\,b2\,h - c\,a2\,c1 + b1^2\,h - c\,b1\,c2 + b2^2\,h + c\,b2\,c1\rangle, \langle a1\,h - b1\,h - c\,c2 + d2\,c, -a2\,h + b2\,h - c\,c1 + c\,d1, -a1\,b2 + a1\,d2 + a2\,b1 - a2\,d1 - d2\,b1 + d1\,b2, a^2 - b1^2 + 2\,b1\,c1 - b2^2 + 2\,b2\,c2 - c1^2 - c2^2, -a1^2 + 2\,a1\,c1 - a2^2 + 2\,c2\,a2 + b^2 - c1^2 - c2^2, -a1^2 + 2\,a1\,b1 - a2^2 + 2\,b2\,a2 - b1^2 - b2^2 + c^2, a1\,b2 - a1\,c2 - a2\,b1 + a2\,c1 + b1\,c2 - b2\,c1 + c\,h, a1\,c1 - a1\,d1 + c2\,a2 - d2\,a2 - c1\,d1 - c2\,d2 + d1^2 + d2^2, a1\,c1 - a1\,d1 + c2\,a2 - d2\,a2 - b1\,c1 + d1\,b1 - b2\,c2 + d2\,b2, a1\,c1 - a1\,d1 + c2\,a2 - d2\,a2 - c1^2 + c1\,d1 - c2^2 + c2\,d2 + h^2, -a1^2\,h + 2\,a1\,b1\,h - c\,a1\,b2 + c\,a1\,c2 - a2^2\,h + c\,a2\,b1 + 2\,a2\,b2\,h - c\,a2\,c1 - b1^2\,h - c\,b1\,c2 - b2^2\,h + c\,b2\,c1\rangle$$

Maple finds 16 prime components. We find their dimensions and their projections on the coordinate variables {a1,a2,b1,b2,c1,c2} :

for i **from** 1 **to** 16 **do** $PCS[i]$, $HilbertDimension(PCS[i])$, $EliminationIdeal(PCS[i], \{a1, a2, b1, b2, c1, c2\})$ **od**;

$$\langle c, a + b, b1 - a1, b2 - a2, a^2 - a1^2 + 2\,a1\,c1 - a2^2 + 2\,c2\,a2 - c1^2 - c2^2, -c1^2 + 2\,c1\,d1 - c2^2 + 2\,c2\,d2 - d1^2 - d2^2 + h^2\rangle, 6, \langle b1 - a1, b2 - a2\rangle$$

$$\langle c, b - a, b1 - a1, b2 - a2, a^2 - a1^2 + 2\,a1\,c1 - a2^2 + 2\,c2\,a2 - c1^2 - c2^2, -c1^2 + 2\,c1\,d1 - c2^2 + 2\,c2\,d2 - d1^2 - d2^2 + h^2\rangle, 6, \langle b1 - a1, b2 - a2\rangle$$

$$\langle c, a+b, b1-a1, b2-a2, d1-a1, a^2-a1^2+2\,a1\,c1-a2^2+2\,c2\,a2-c1^2-c2^2, -a1^2+2\,a1\,c1-c1^2-c2^2+2\,c2\,d2-d2^2+h^2\rangle, 5, \langle b1-a1, b2-a2\rangle$$

$$\langle c, a+b, b1-a1, b2-a2, d1-c1, -c2+d2+h, a^2-a1^2+2\,a1\,c1-a2^2+2\,c2\,a2-c1^2-c2^2\rangle, 5, \langle b1-a1, b2-a2\rangle$$

$$\langle c, a+b, b1-a1, b2-a2, d1-c1, c2-d2+h, a^2-a1^2+2\,a1\,c1-a2^2+2\,c2\,a2-c1^2-c2^2\rangle, 5, \langle b1-a1, b2-a2\rangle$$

$$\langle c, a+b, b1-a1, b2-a2, d2-a2, a^2-a1^2+2\,a1\,c1-a2^2+2\,c2\,a2-c1^2-c2^2, -a2^2+2\,c2\,a2-c1^2+2\,c1\,d1-c2^2-d1^2+h^2\rangle, 5, \langle b1-a1, b2-a2\rangle$$

$$\langle c, a+b, b1-a1, b2-a2, d2-c2, -c1+d1+h, a^2-a1^2+2\,a1\,c1-a2^2+2\,c2\,a2-c1^2-c2^2\rangle, 5, \langle b1-a1, b2-a2\rangle$$

$$\langle c, a+b, b1-a1, b2-a2, d2-c2, c1-d1+h, a^2-a1^2+2\,a1\,c1-a2^2+2\,c2\,a2-c1^2-c2^2\rangle, 5, \langle b1-a1, b2-a2\rangle$$

$$\langle c, b-a, b1-a1, b2-a2, d1-a1, a^2-a1^2+2\,a1\,c1-a2^2+2\,c2\,a2-c1^2-c2^2, -a1^2+2\,a1\,c1-c1^2-c2^2+2\,c2\,d2-d2^2+h^2\rangle, 5, \langle b1-a1, b2-a2\rangle$$

$$\langle c, b-a, b1-a1, b2-a2, d1-c1, -c2+d2+h, a^2-a1^2+2\,a1\,c1-a2^2+2\,c2\,a2-c1^2-c2^2\rangle, 5, \langle b1-a1, b2-a2\rangle$$

$$\langle c, b-a, b1-a1, b2-a2, d1-c1, c2-d2+h, a^2-a1^2+2\,a1\,c1-a2^2+2\,c2\,a2-c1^2-c2^2\rangle, 5, \langle b1-a1, b2-a2\rangle$$

$$\langle c, b-a, b1-a1, b2-a2, d2-a2, a^2-a1^2+2\,a1\,c1-a2^2+2\,c2\,a2-c1^2-c2^2, -a2^2+2\,c2\,a2-c1^2+2\,c1\,d1-c2^2-d1^2+h^2\rangle, 5, \langle b1-a1, b2-a2\rangle$$

$$\langle c, b-a, b1-a1, b2-a2, d2-c2, -c1+d1+h, a^2-a1^2+2\,a1\,c1-a2^2+2\,c2\,a2-c1^2-c2^2\rangle, 5, \langle b1-a1, b2-a2\rangle$$

$$\langle c, b-a, b1-a1, b2-a2, d2-c2, c1-d1+h, a^2-a1^2+2\,a1\,c1-a2^2+2\,c2\,a2-c1^2-c2^2\rangle, 5, \langle b1-a1, b2-a2\rangle$$

$$\langle -a1\,h+b1\,h-c\,c2+d2\,c, a2\,h-b2\,h-c\,c1+c\,d1, -a1\,b2+a1\,d2+a2\,b1-a2\,d1-d2\,b1+d1\,b2, a^2-b1^2+2\,b1\,c1-b2^2+2\,b2\,c2-c1^2-c2^2, -a1^2+2\,a1\,c1-a2^2+2\,c2\,a2+b^2-c1^2-c2^2, -a1^2+2\,a1\,b1-a2^2+2\,b2\,a2-b1^2-b2^2+c^2, -a1\,b2+a1\,c2+a2\,b1-a2\,c1-b1\,c2+b2\,c1+c\,h, a1\,c1-a1\,d1+c2\,a2-d2\,a2-c1\,d1-c2\,d2+d1^2+d2^2, a1\,c1-a1\,d1+c2\,a2-d2\,a2-b1\,c1+d1\,b1-b2\,c2+d2\,b2, a1\,c1-a1\,d1+c2\,a2-d2\,a2-c1^2+c1\,d1-c2^2+c2\,d2+h^2, a1^2\,h-2\,a1\,b1\,h-c\,a1\,b2+c\,a1\,c2+a2^2\,h+c\,a2\,b1-2\,a2\,b2\,h-c\,a2\,c1+b1^2\,h-c\,b1\,c2+b2^2\,h+c\,b2\,c1\rangle, 6, \langle 0\rangle$$

$$\langle a1\,h-b1\,h-c\,c2+d2\,c, -a2\,h+b2\,h-c\,c1+c\,d1, -a1\,b2+a1\,d2+a2\,b1-a2\,d1 \quad \textbf{(1.5)}$$

$$-d2\,b1+d1\,b2, a^2-b1^2+2\,b1\,c1-b2^2+2\,b2\,c2-c1^2-c2^2, -a1^2+2\,a1\,c1-a2^2+2\,c2\,a2+b^2-c1^2-c2^2, -a1^2+2\,a1\,b1-a2^2+2\,b2\,a2-b1^2-b2^2+c^2, a1\,b2-a1\,c2-a2\,b1+a2\,c1+b1\,c2-b2\,c1+c\,h, a1\,c1-a1\,d1+c2\,a2-d2\,a2-c1\,d1-c2\,d2+d1^2+d2^2, a1\,c1-a1\,d1+c2\,a2-d2\,a2-b1\,c1+d1\,b1-b2\,c2+d2\,b2, a1\,c1-a1\,d1+c2\,a2-d2\,a2-c1^2+c1\,d1-c2^2+c2\,d2+h^2, -a1^2\,h+2\,a1\,b1\,h-c\,a1\,b2+c\,a1\,c2-a2^2\,h+c\,a2\,b1+2\,a2\,b2\,h-c\,a2\,c1-b1^2\,h-c\,b1\,c2-b2^2\,h+c\,b2\,c1\rangle, 6, \langle 0\rangle$$

But there are redundant components. In fact, only the first two and the last two components are relevant. Components PCS[3]-PCS[6] contain PCS[1] and components PCS[7]-PCS[14] contain PCS [2]:

for i **from** 3 **to** 8 **do** $IdealContainment(PCS[1], PCS[i])$ **od**; **for** i **from** 9 **to** 14 **do** $IdealContainment(PCS[2], PCS[i])$ **od**;

$$true$$
$$true$$
$$true$$
$$true$$
$$true$$
$$true$$
$$true$$
$$true$$
$$true$$
$$true$$
$$true$$
$$true \tag{1.6}$$

We rename the relevant components, so that radical(CS)=CS1∩CS2∩CS3∩CS4. The first two components correspond to non-degenerate cases of the construction.

$CS1 := PCS[15]; CS2 := PCS[16]; CS3 := PCS[2]; CS4 := PCS[1];$

$$CS1 := \langle -a1\,h+b1\,h-c\,c2+d2\,c, a2\,h-b2\,h-c\,c1+c\,d1, -a1\,b2+a1\,d2+a2\,b1-a2\,d1-d2\,b1+d1\,b2, a^2-b1^2+2\,b1\,c1-b2^2+2\,b2\,c2-c1^2-c2^2, -a1^2+2\,a1\,c1-a2^2+2\,c2\,a2+b^2-c1^2-c2^2, -a1^2+2\,a1\,b1-a2^2+2\,b2\,a2-b1^2-b2^2+c^2, -a1\,b2+a1\,c2+a2\,b1-a2\,c1-b1\,c2+b2\,c1+c\,h, a1\,c1-a1\,d1+c2\,a2-d2\,a2-c1\,d1-c2\,d2+d1^2+d2^2, a1\,c1-a1\,d1+c2\,a2-d2\,a2-b1\,c1+d1\,b1-b2\,c2+d2\,b2, a1\,c1-a1\,d1+c2\,a2-d2\,a2-c1^2+c1\,d1-c2^2+c2\,d2+h^2, a1^2\,h-2\,a1\,b1\,h-c\,a1\,b2+c\,a1\,c2+a2^2\,h+c\,a2\,b1-2\,a2\,b2\,h-c\,a2\,c1$$

$$+ b1^2 h - c\, b1\, c2 + b2^2 h + c\, b2\, c1\rangle$$

$$CS2 := \langle a1\, h - b1\, h - c\, c2 + d2\, c, -a2\, h + b2\, h - c\, c1 + c\, d1, -a1\, b2 + a1\, d2 + a2\, b1 - a2\, d1 - d2\, b1 + d1\, b2, a^2 - b1^2 + 2\, b1\, c1 - b2^2 + 2\, b2\, c2 - c1^2 - c2^2, -a1^2 + 2\, a1\, c1 - a2^2 + 2\, c2\, a2 + b^2 - c1^2 - c2^2, -a1^2 + 2\, a1\, b1 - a2^2 + 2\, b2\, a2 - b1^2 - b2^2 + c^2, a1\, b2 - a1\, c2 - a2\, b1 + a2\, c1 + b1\, c2 - b2\, c1 + c\, h, a1\, c1 - a1\, d1 + c2\, a2 - d2\, a2 - c1\, d1 - c2\, d2 + d1^2 + d2^2, a1\, c1 - a1\, d1 + c2\, a2 - d2\, a2 - b1\, c1 + d1\, b1 - b2\, c2 + d2\, b2, a1\, c1 - a1\, d1 + c2\, a2 - d2\, a2 - c1^2 + c1\, d1 - c2^2 + c2\, d2 + h^2, -a1^2 h + 2\, a1\, b1\, h - c\, a1\, b2 + c\, a1\, c2 - a2^2 h + c\, a2\, b1 + 2\, a2\, b2\, h - c\, a2\, c1 - b1^2 h - c\, b1\, c2 - b2^2 h + c\, b2\, c1\rangle$$

$$CS3 := \langle c, b - a, b1 - a1, b2 - a2, a^2 - a1^2 + 2\, a1\, c1 - a2^2 + 2\, c2\, a2 - c1^2 - c2^2, -c1^2 + 2\, c1\, d1 - c2^2 + 2\, c2\, d2 - d1^2 - d2^2 + h^2\rangle$$

$$CS4 := \langle c, a + b, b1 - a1, b2 - a2, a^2 - a1^2 + 2\, a1\, c1 - a2^2 + 2\, c2\, a2 - c1^2 - c2^2, -c1^2 + 2\, c1\, d1 - c2^2 + 2\, c2\, d2 - d1^2 - d2^2 + h^2\rangle \quad \textbf{(1.7)}$$

Let us add the condition given by f=(18*c*h)^2-3*(a+b+c)^4=0 to get the ideal of construction satisfying the perimeter-area equality.

```
f := (18*c*h)^2-3*(a+b+c)^4;
```

$$f := 324\, c^2 h^2 - 3\, (a + b + c)^4 \quad \textbf{(1.8)}$$

```
CD := Add(CS, <f> );
```

$$CD := \langle 108\, c^2 h^2 - (a + b + c)^4, (d1 - a1)\, (b2 - a2) - (d2 - a2)\, (b1 - a1), (d1 - c1)\, (b1 - a1) + (d2 - c2)\, (b2 - a2), a^2 - (b1 - c1)^2 - (b2 - c2)^2, b^2 - (c1 - a1)^2 - (c2 - a2)^2, c^2 - (b1 - a1)^2 - (b2 - a2)^2, h^2 - (d1 - c1)^2 - (d2 - c2)^2\rangle \quad \textbf{(1.9)}$$

We study now how adding this new condition affects the components CS1, CS2, CS3, CS4, together with the elimination ideals in the coordinate variables of points A,B,C:

```
CD1 := Add(CS1, <f> ) : CF1 := EliminationIdeal(CD1, {a1, a2, b1, b2, c1, c2});
```

$$CF1 := \langle 729\, a1^{12} b2^4 - 2916\, a1^{12} b2^3 c2 + 4374\, a1^{12} b2^2 c2^2 - 2916\, a1^{12} b2\, c2^3 + 729\, a1^{12} c2^4 - 2916\, a1^{11} a2\, b1\, b2^3 + 8748\, a1^{11} a2\, b1\, b2^2 c2 - 8748\, a1^{11} a2\, b1\, b2\, c2^2 + 2916\, a1^{11} a2\, b1\, c2^3 + 2916\, a1^{11} a2\, b2^3 c1 - 8748\, a1^{11} a2\, b2^2 c1\, c2 + 8748\, a1^{11} a2\, b2\, c1\, c2^2 - 2916\, a1^{11} a2\, c1\, c2^3 - 2916\, a1^{11} b1\, b2^4 + 14580\, a1^{11} b1\, b2^3 c2 - 26244\, a1^{11} b1\, b2^2 c2^2 + 20412\, a1^{11} b1\, b2\, c2^3 - 5832\, a1^{11} b1\, c2^4 - 5832\, a1^{11} b2^4 c1 + 20412\, a1^{11} b2^3 c1\, c2 - 26244\, a1^{11} b2^2 c1\, c2^2 + 14580\, a1^{11} b2\, c1\, c2^3 - 2916\, a1^{11} c1\, c2^4 + 4374\, a1^{10} a2^2 b1^2 b2^2 - 8748\, a1^{10} a2^2 b1^2 b2\, c2 + 4374\, a1^{10} a2^2 b1^2 c2^2 \quad \textbf{(1.10)}$$

$$- 8748\, a1^{10}\, a2^2\, b1\, b2^2\, c1 + 17496\, a1^{10}\, a2^2\, b1\, b2\, c1\, c2 - 8748\, a1^{10}\, a2^2\, b1\, c1\, c2^2$$
$$+ 2916\, a1^{10}\, a2^2\, b2^4 - 11664\, a1^{10}\, a2^2\, b2^3\, c2 + 4374\, a1^{10}\, a2^2\, b2^2\, c1^2$$
$$+ 17496\, a1^{10}\, a2^2\, b2^2\, c2^2 - 8748\, a1^{10}\, a2^2\, b2\, c1^2\, c2 - 11664\, a1^{10}\, a2^2\, b2\, c2^3$$
$$+ 4374\, a1^{10}\, a2^2\, c1^2\, c2^2 + 2916\, a1^{10}\, a2^2\, c2^4 + 11664\, a1^{10}\, a2\, b1^2\, b2^3$$
$$- 43740\, a1^{10}\, a2\, b1^2\, b2^2\, c2 + 52488\, a1^{10}\, a2\, b1^2\, b2\, c2^2 - 20412\, a1^{10}\, a2\, b1^2\, c2^3$$
$$+ 8748\, a1^{10}\, a2\, b1\, b2^3\, c1 - 8748\, a1^{10}\, a2\, b1\, b2^2\, c1\, c2 - 8748\, a1^{10}\, a2\, b1\, b2\, c1\, c2^2$$
$$+ 8748\, a1^{10}\, a2\, b1\, c1\, c2^3 - 2916\, a1^{10}\, a2\, b2^5 + 8748\, a1^{10}\, a2\, b2^4\, c2$$
$$- 20412\, a1^{10}\, a2\, b2^3\, c1^2 - 5832\, a1^{10}\, a2\, b2^3\, c2^2 + 52488\, a1^{10}\, a2\, b2^2\, c1^2\, c2$$
$$- 5832\, a1^{10}\, a2\, b2^2\, c2^3 - 43740\, a1^{10}\, a2\, b2\, c1^2\, c2^2 + 8748\, a1^{10}\, a2\, b2\, c2^4$$
$$+ 11664\, a1^{10}\, a2\, c1^2\, c2^3 - 2916\, a1^{10}\, a2\, c2^5 - 108\, a1^{10}\, b1^4\, b2^2 + 216\, a1^{10}\, b1^4\, b2\, c2$$
$$- 108\, a1^{10}\, b1^4\, c2^2 + 432\, a1^{10}\, b1^3\, b2^2\, c1 - 864\, a1^{10}\, b1^3\, b2\, c1\, c2 + 432\, a1^{10}\, b1^3\, c1\, c2^2$$
$$+ 4266\, a1^{10}\, b1^2\, b2^4 - 28728\, a1^{10}\, b1^2\, b2^3\, c2 - 648\, a1^{10}\, b1^2\, b2^2\, c1^2$$
$$+ 64962\, a1^{10}\, b1^2\, b2^2\, c2^2 + 1296\, a1^{10}\, b1^2\, b2\, c1^2\, c2 - 60804\, a1^{10}\, b1^2\, b2\, c2^3$$
$$- 648\, a1^{10}\, b1^2\, c1^2\, c2^2 + 20304\, a1^{10}\, b1^2\, c2^4 + 23544\, a1^{10}\, b1\, b2^4\, c1$$
$$- 102924\, a1^{10}\, b1\, b2^3\, c1\, c2 + 432\, a1^{10}\, b1\, b2^2\, c1^3 + 158760\, a1^{10}\, b1\, b2^2\, c1\, c2^2$$
$$- 864\, a1^{10}\, b1\, b2\, c1^3\, c2 - 102924\, a1^{10}\, b1\, b2\, c1\, c2^3 + 432\, a1^{10}\, b1\, c1^3\, c2^2$$
$$+ 23544\, a1^{10}\, b1\, c1\, c2^4 - 9126\, a1^{10}\, b2^6 + 57672\, a1^{10}\, b2^5\, c2 + 20304\, a1^{10}\, b2^4\, c1^2$$
$$- 148554\, a1^{10}\, b2^4\, c2^2 - 60804\, a1^{10}\, b2^3\, c1^2\, c2 + 200016\, a1^{10}\, b2^3\, c2^3$$
$$- 108\, a1^{10}\, b2^2\, c1^4 + 64962\, a1^{10}\, b2^2\, c1^2\, c2^2 - 148554\, a1^{10}\, b2^2\, c2^4 + 216\, a1^{10}\, b2\, c1^4\, c2$$
$$- 28728\, a1^{10}\, b2\, c1^2\, c2^3 + 57672\, a1^{10}\, b2\, c2^5 - 108\, a1^{10}\, c1^4\, c2^2 + 4266\, a1^{10}\, c1^2\, c2^4$$
$$- 9126\, a1^{10}\, c2^6 - 2916\, a1^9\, a2^3\, b1^3\, b2 + 2916\, a1^9\, a2^3\, b1^3\, c2 + 8748\, a1^9\, a2^3\, b1^2\, b2\, c1$$
$$- 8748\, a1^9\, a2^3\, b1^2\, c1\, c2 - 11664\, a1^9\, a2^3\, b1\, b2^3 + 34992\, a1^9\, a2^3\, b1\, b2^2\, c2$$
$$- 8748\, a1^9\, a2^3\, b1\, b2\, c1^2 - 34992\, a1^9\, a2^3\, b1\, b2\, c2^2 + 8748\, a1^9\, a2^3\, b1\, c1^2\, c2$$
$$+ 11664\, a1^9\, a2^3\, b1\, c2^3 + 11664\, a1^9\, a2^3\, b2^3\, c1 - 34992\, a1^9\, a2^3\, b2^2\, c1\, c2$$
$$+ 2916\, a1^9\, a2^3\, b2\, c1^3 + 34992\, a1^9\, a2^3\, b2\, c1\, c2^2 - 2916\, a1^9\, a2^3\, c1^3\, c2$$
$$- 11664\, a1^9\, a2^3\, c1\, c2^3 - 17496\, a1^9\, a2^2\, b1^3\, b2^2 + 43740\, a1^9\, a2^2\, b1^3\, b2\, c2$$
$$- 26244\, a1^9\, a2^2\, b1^3\, c2^2 + 8748\, a1^9\, a2^2\, b1^2\, b2^2\, c1 - 43740\, a1^9\, a2^2\, b1^2\, b2\, c1\, c2$$
$$+ 34992\, a1^9\, a2^2\, b1^2\, c1\, c2^2 + 2916\, a1^9\, a2^2\, b1\, b2^4 + 23328\, a1^9\, a2^2\, b1\, b2^3\, c2$$
$$+ 34992\, a1^9\, a2^2\, b1\, b2^2\, c1^2 - 87480\, a1^9\, a2^2\, b1\, b2^2\, c2^2 - 43740\, a1^9\, a2^2\, b1\, b2\, c1^2\, c2$$
$$+ 93312\, a1^9\, a2^2\, b1\, b2\, c2^3 + 8748\, a1^9\, a2^2\, b1\, c1^2\, c2^2 - 32076\, a1^9\, a2^2\, b1\, c2^4$$
$$- 32076\, a1^9\, a2^2\, b2^4\, c1 + 93312\, a1^9\, a2^2\, b2^3\, c1\, c2 - 26244\, a1^9\, a2^2\, b2^2\, c1^3$$
$$- 87480\, a1^9\, a2^2\, b2^2\, c1\, c2^2 + 43740\, a1^9\, a2^2\, b2\, c1^3\, c2 + 23328\, a1^9\, a2^2\, b2\, c1\, c2^3$$
$$- 17496\, a1^9\, a2^2\, c1^3\, c2^2 + 2916\, a1^9\, a2^2\, c1\, c2^4 + 216\, a1^9\, a2\, b1^5\, b2 - 216\, a1^9\, a2\, b1^5\, c2$$
$$- 1080\, a1^9\, a2\, b1^4\, b2\, c1 + 1080\, a1^9\, a2\, b1^4\, c1\, c2 - 17496\, a1^9\, a2\, b1^3\, b2^3$$

$$+ 87480\, a1^9\, a2\, b1^3\, b2^2\, c2 + 2160\, a1^9\, a2\, b1^3\, b2\, c1^2 - 131220\, a1^9\, a2\, b1^3\, b2\, c2^2$$
$$- 2160\, a1^9\, a2\, b1^3\, c1^2\, c2 + 61236\, a1^9\, a2\, b1^3\, c2^3 - 64152\, a1^9\, a2\, b1^2\, b2^3\, c1$$
$$+ 174960\, a1^9\, a2\, b1^2\, b2^2\, c1\, c2 - 2160\, a1^9\, a2\, b1^2\, b2\, c1^3 - 131220\, a1^9\, a2\, b1^2\, b2\, c1\, c2^2$$
$$+ 2160\, a1^9\, a2\, b1^2\, c1^3\, c2 + 20412\, a1^9\, a2\, b1^2\, c1\, c2^3 + 63288\, a1^9\, a2\, b1\, b2^5$$
$$- 322272\, a1^9\, a2\, b1\, b2^4\, c2 + 20412\, a1^9\, a2\, b1\, b2^3\, c1^2 + 621216\, a1^9\, a2\, b1\, b2^3\, c2^2$$
$$- 131220\, a1^9\, a2\, b1\, b2^2\, c1^2\, c2 - 562896\, a1^9\, a2\, b1\, b2^2\, c2^3 + 1080\, a1^9\, a2\, b1\, b2\, c1^4$$
$$+ 174960\, a1^9\, a2\, b1\, b2\, c1^2\, c2^2 + 234792\, a1^9\, a2\, b1\, b2\, c2^4 - 1080\, a1^9\, a2\, b1\, c1^4\, c2$$
$$- 64152\, a1^9\, a2\, b1\, c1^2\, c2^3 - 34128\, a1^9\, a2\, b1\, c2^5 - 34128\, a1^9\, a2\, b2^5\, c1$$
$$+ 234792\, a1^9\, a2\, b2^4\, c1\, c2 + 61236\, a1^9\, a2\, b2^3\, c1^3 - 562896\, a1^9\, a2\, b2^3\, c1\, c2^2$$
$$- 131220\, a1^9\, a2\, b2^2\, c1^3\, c2 + 621216\, a1^9\, a2\, b2^2\, c1\, c2^3 - 216\, a1^9\, a2\, b2\, c1^5$$
$$+ 87480\, a1^9\, a2\, b2\, c1^3\, c2^2 - 322272\, a1^9\, a2\, b2\, c1\, c2^4 + 216\, a1^9\, a2\, c1^5\, c2$$
$$- 17496\, a1^9\, a2\, c1^3\, c2^3 + 63288\, a1^9\, a2\, c1\, c2^5 + 432\, a1^9\, b1^5\, b2^2 - 1080\, a1^9\, b1^5\, b2\, c2$$
$$+ 648\, a1^9\, b1^5\, c2^2 - 1080\, a1^9\, b1^4\, b2^2\, c1 + 3240\, a1^9\, b1^4\, b2\, c1\, c2 - 2160\, a1^9\, b1^4\, c1\, c2^2$$
$$- 2376\, a1^9\, b1^3\, b2^4 + 27000\, a1^9\, b1^3\, b2^3\, c2 - 84240\, a1^9\, b1^3\, b2^2\, c2^2$$
$$- 2160\, a1^9\, b1^3\, b2\, c1^2\, c2 + 99900\, a1^9\, b1^3\, b2\, c2^3 + 2160\, a1^9\, b1^3\, c1^2\, c2^2$$
$$- 40284\, a1^9\, b1^3\, c2^4 - 35532\, a1^9\, b1^2\, b2^4\, c1 + 206280\, a1^9\, b1^2\, b2^3\, c1\, c2$$
$$+ 2160\, a1^9\, b1^2\, b2^2\, c1^3 - 396900\, a1^9\, b1^2\, b2^2\, c1\, c2^2 - 2160\, a1^9\, b1^2\, b2\, c1^3\, c2$$
$$+ 308340\, a1^9\, b1^2\, b2\, c1\, c2^3 - 82188\, a1^9\, b1^2\, c1\, c2^4 + 18360\, a1^9\, b1\, b2^6$$
$$- 173448\, a1^9\, b1\, b2^5\, c2 - 82188\, a1^9\, b1\, b2^4\, c1^2 + 594756\, a1^9\, b1\, b2^4\, c2^2$$
$$+ 308340\, a1^9\, b1\, b2^3\, c1^2\, c2 - 1000080\, a1^9\, b1\, b2^3\, c2^3 - 2160\, a1^9\, b1\, b2^2\, c1^4$$
$$- 396900\, a1^9\, b1\, b2^2\, c1^2\, c2^2 + 890784\, a1^9\, b1\, b2^2\, c2^4 + 3240\, a1^9\, b1\, b2\, c1^4\, c2$$
$$+ 206280\, a1^9\, b1\, b2\, c1^2\, c2^3 - 403272\, a1^9\, b1\, b2\, c2^5 - 1080\, a1^9\, b1\, c1^4\, c2^2$$
$$- 35532\, a1^9\, b1\, c1^2\, c2^4 + 72900\, a1^9\, b1\, c2^6 + 72900\, a1^9\, b2^6\, c1 - 403272\, a1^9\, b2^5\, c1\, c2$$
$$- 40284\, a1^9\, b2^4\, c1^3 + 890784\, a1^9\, b2^4\, c1\, c2^2 + 99900\, a1^9\, b2^3\, c1^3\, c2$$
$$- 1000080\, a1^9\, b2^3\, c1\, c2^3 + 648\, a1^9\, b2^2\, c1^5 - 84240\, a1^9\, b2^2\, c1^3\, c2^2$$
$$+ 594756\, a1^9\, b2^2\, c1\, c2^4 - 1080\, a1^9\, b2\, c1^5\, c2 + 27000\, a1^9\, b2\, c1^3\, c2^3$$
$$- 173448\, a1^9\, b2\, c1\, c2^5 + 432\, a1^9\, c1^5\, c2^2 - 2376\, a1^9\, c1^3\, c2^4 + 18360\, a1^9\, c1\, c2^6$$
$$+ 729\, a1^8\, a2^4\, b1^4 - 2916\, a1^8\, a2^4\, b1^3\, c1 + 17496\, a1^8\, a2^4\, b1^2\, b2^2$$
$$- 34992\, a1^8\, a2^4\, b1^2\, b2\, c2 + 4374\, a1^8\, a2^4\, b1^2\, c1^2 + 17496\, a1^8\, a2^4\, b1^2\, c2^2$$
$$- 34992\, a1^8\, a2^4\, b1\, b2^2\, c1 + 69984\, a1^8\, a2^4\, b1\, b2\, c1\, c2 - 2916\, a1^8\, a2^4\, b1\, c1^3$$
$$- 34992\, a1^8\, a2^4\, b1\, c1\, c2^2 + 4374\, a1^8\, a2^4\, b2^4 - 17496\, a1^8\, a2^4\, b2^3\, c2$$
$$+ 17496\, a1^8\, a2^4\, b2^2\, c1^2 + 26244\, a1^8\, a2^4\, b2^2\, c2^2 - 34992\, a1^8\, a2^4\, b2\, c1^2\, c2$$
$$- 17496\, a1^8\, a2^4\, b2\, c2^3 + 729\, a1^8\, a2^4\, c1^4 + 17496\, a1^8\, a2^4\, c1^2\, c2^2 + 4374\, a1^8\, a2^4\, c2^4$$
$$+ 11664\, a1^8\, a2^3\, b1^4\, b2 - 14580\, a1^8\, a2^3\, b1^4\, c2 - 20412\, a1^8\, a2^3\, b1^3\, b2\, c1$$

$$+ 32076\, a1^8\, a2^3\, b1^3\, c1\, c2 + 17496\, a1^8\, a2^3\, b1^2\, b2^3 - 122472\, a1^8\, a2^3\, b1^2\, b2^2\, c2$$
$$- 8748\, a1^8\, a2^3\, b1^2\, b2\, c1^2 + 192456\, a1^8\, a2^3\, b1^2\, b2\, c2^2 - 8748\, a1^8\, a2^3\, b1^2\, c1^2\, c2$$
$$- 87480\, a1^8\, a2^3\, b1^2\, c2^3 + 69984\, a1^8\, a2^3\, b1\, b2^3\, c1 - 69984\, a1^8\, a2^3\, b1\, b2^2\, c1\, c2$$
$$+ 32076\, a1^8\, a2^3\, b1\, b2\, c1^3 - 69984\, a1^8\, a2^3\, b1\, b2\, c1\, c2^2 - 20412\, a1^8\, a2^3\, b1\, c1^3\, c2$$
$$+ 69984\, a1^8\, a2^3\, b1\, c1\, c2^3 - 8748\, a1^8\, a2^3\, b2^5 + 26244\, a1^8\, a2^3\, b2^4\, c2$$
$$- 87480\, a1^8\, a2^3\, b2^3\, c1^2 - 17496\, a1^8\, a2^3\, b2^3\, c2^2 + 192456\, a1^8\, a2^3\, b2^2\, c1^2\, c2$$
$$- 17496\, a1^8\, a2^3\, b2^2\, c2^3 - 14580\, a1^8\, a2^3\, b2\, c1^4 - 122472\, a1^8\, a2^3\, b2\, c1^2\, c2^2$$
$$+ 26244\, a1^8\, a2^3\, b2\, c2^4 + 11664\, a1^8\, a2^3\, c1^4\, c2 + 17496\, a1^8\, a2^3\, c1^2\, c2^3$$
$$- 8748\, a1^8\, a2^3\, c2^5 - 108\, a1^8\, a2^2\, b1^6 + 648\, a1^8\, a2^2\, b1^5\, c1 + 26244\, a1^8\, a2^2\, b1^4\, b2^2$$
$$- 87480\, a1^8\, a2^2\, b1^4\, b2\, c2 - 1620\, a1^8\, a2^2\, b1^4\, c1^2 + 65610\, a1^8\, a2^2\, b1^4\, c2^2$$
$$+ 52488\, a1^8\, a2^2\, b1^3\, b2^2\, c1 - 43740\, a1^8\, a2^2\, b1^3\, b2\, c1\, c2 + 2160\, a1^8\, a2^2\, b1^3\, c1^3$$
$$- 26244\, a1^8\, a2^2\, b1^3\, c1\, c2^2 - 163134\, a1^8\, a2^2\, b1^2\, b2^4 + 600048\, a1^8\, a2^2\, b1^2\, b2^3\, c2$$
$$- 118098\, a1^8\, a2^2\, b1^2\, b2^2\, c1^2 - 716364\, a1^8\, a2^2\, b1^2\, b2^2\, c2^2$$
$$+ 262440\, a1^8\, a2^2\, b1^2\, b2\, c1^2\, c2 + 285120\, a1^8\, a2^2\, b1^2\, b2\, c2^3 - 1620\, a1^8\, a2^2\, b1^2\, c1^4$$
$$- 118098\, a1^8\, a2^2\, b1^2\, c1^2\, c2^2 - 5670\, a1^8\, a2^2\, b1^2\, c2^4 + 300024\, a1^8\, a2^2\, b1\, b2^4\, c1$$
$$- 1410048\, a1^8\, a2^2\, b1\, b2^3\, c1\, c2 - 26244\, a1^8\, a2^2\, b1\, b2^2\, c1^3$$
$$+ 2220048\, a1^8\, a2^2\, b1\, b2^2\, c1\, c2^2 - 43740\, a1^8\, a2^2\, b1\, b2\, c1^3\, c2$$
$$- 1410048\, a1^8\, a2^2\, b1\, b2\, c1\, c2^3 + 648\, a1^8\, a2^2\, b1\, c1^5 + 52488\, a1^8\, a2^2\, b1\, c1^3\, c2^2$$
$$+ 300024\, a1^8\, a2^2\, b1\, c1\, c2^4 - 13986\, a1^8\, a2^2\, b2^6 + 110160\, a1^8\, a2^2\, b2^5\, c2$$
$$- 5670\, a1^8\, a2^2\, b2^4\, c1^2 - 314766\, a1^8\, a2^2\, b2^4\, c2^2 + 285120\, a1^8\, a2^2\, b2^3\, c1^2\, c2$$
$$+ 437184\, a1^8\, a2^2\, b2^3\, c2^3 + 65610\, a1^8\, a2^2\, b2^2\, c1^4 - 716364\, a1^8\, a2^2\, b2^2\, c1^2\, c2^2$$
$$- 314766\, a1^8\, a2^2\, b2^2\, c2^4 - 87480\, a1^8\, a2^2\, b2\, c1^4\, c2 + 600048\, a1^8\, a2^2\, b2\, c1^2\, c2^3$$
$$+ 110160\, a1^8\, a2^2\, b2\, c2^5 - 108\, a1^8\, a2^2\, c1^6 + 26244\, a1^8\, a2^2\, c1^4\, c2^2$$
$$- 163134\, a1^8\, a2^2\, c1^2\, c2^4 - 13986\, a1^8\, a2^2\, c2^6 - 864\, a1^8\, a2\, b1^6\, b2 + 1080\, a1^8\, a2\, b1^6\, c2$$
$$+ 3240\, a1^8\, a2\, b1^5\, b2\, c1 - 4536\, a1^8\, a2\, b1^5\, c1\, c2 + 11664\, a1^8\, a2\, b1^4\, b2^3$$
$$- 87480\, a1^8\, a2\, b1^4\, b2^2\, c2 - 3240\, a1^8\, a2\, b1^4\, b2\, c1^2 + 174960\, a1^8\, a2\, b1^4\, b2\, c2^2$$
$$+ 6480\, a1^8\, a2\, b1^4\, c1^2\, c2 - 102060\, a1^8\, a2\, b1^4\, c2^3 + 110808\, a1^8\, a2\, b1^3\, b2^3\, c1$$
$$- 437400\, a1^8\, a2\, b1^3\, b2^2\, c1\, c2 - 2160\, a1^8\, a2\, b1^3\, b2\, c1^3 + 481140\, a1^8\, a2\, b1^3\, b2\, c1\, c2^2$$
$$- 2160\, a1^8\, a2\, b1^3\, c1^3\, c2 - 142884\, a1^8\, a2\, b1^3\, c1\, c2^3 - 117288\, a1^8\, a2\, b1^2\, b2^5$$
$$+ 912708\, a1^8\, a2\, b1^2\, b2^4\, c2 + 122472\, a1^8\, a2\, b1^2\, b2^3\, c1^2 - 2425464\, a1^8\, a2\, b1^2\, b2^3\, c2^2$$
$$- 131220\, a1^8\, a2\, b1^2\, b2^2\, c1^2\, c2 + 2903040\, a1^8\, a2\, b1^2\, b2^2\, c2^3 + 6480\, a1^8\, a2\, b1^2\, b2\, c1^4$$
$$- 131220\, a1^8\, a2\, b1^2\, b2\, c1^2\, c2^2 - 1594080\, a1^8\, a2\, b1^2\, b2\, c2^4 - 3240\, a1^8\, a2\, b1^2\, c1^4\, c2$$
$$+ 122472\, a1^8\, a2\, b1^2\, c1^2\, c2^3 + 321084\, a1^8\, a2\, b1^2\, c2^5 - 335016\, a1^8\, a2\, b1\, b2^5\, c1$$
$$+ 1075032\, a1^8\, a2\, b1\, b2^4\, c1\, c2 - 142884\, a1^8\, a2\, b1\, b2^3\, c1^3$$

$$- 740016\, a1^8\, a2\, b1\, b2^3\, c1\, c2^2 + 481140\, a1^8\, a2\, b1\, b2^2\, c1^3\, c2$$
$$- 740016\, a1^8\, a2\, b1\, b2^2\, c1\, c2^3 - 4536\, a1^8\, a2\, b1\, b2\, c1^5 - 437400\, a1^8\, a2\, b1\, b2\, c1^3\, c2^2$$
$$+ 1075032\, a1^8\, a2\, b1\, b2\, c1\, c2^4 + 3240\, a1^8\, a2\, b1\, c1^5\, c2 + 110808\, a1^8\, a2\, b1\, c1^3\, c2^3$$
$$- 335016\, a1^8\, a2\, b1\, c1\, c2^5 + 18360\, a1^8\, a2\, b2^7 - 100548\, a1^8\, a2\, b2^6\, c2$$
$$+ 321084\, a1^8\, a2\, b2^5\, c1^2 + 191484\, a1^8\, a2\, b2^5\, c2^2 - 1594080\, a1^8\, a2\, b2^4\, c1^2\, c2$$
$$- 109296\, a1^8\, a2\, b2^4\, c2^3 - 102060\, a1^8\, a2\, b2^3\, c1^4 + 2903040\, a1^8\, a2\, b2^3\, c1^2\, c2^2$$
$$- 109296\, a1^8\, a2\, b2^3\, c2^4 + 174960\, a1^8\, a2\, b2^2\, c1^4\, c2 - 2425464\, a1^8\, a2\, b2^2\, c1^2\, c2^3$$
$$+ 191484\, a1^8\, a2\, b2^2\, c2^5 + 1080\, a1^8\, a2\, b2\, c1^6 - 87480\, a1^8\, a2\, b2\, c1^4\, c2^2$$
$$+ 912708\, a1^8\, a2\, b2\, c1^2\, c2^4 - 100548\, a1^8\, a2\, b2\, c2^6 - 864\, a1^8\, a2\, c1^6\, c2$$
$$+ 11664\, a1^8\, a2\, c1^4\, c2^3 - 117288\, a1^8\, a2\, c1^2\, c2^5 + 18360\, a1^8\, a2\, c2^7 - 648\, a1^8\, b1^6\, b2^2$$
$$+ 2160\, a1^8\, b1^6\, b2\, c2 - 1620\, a1^8\, b1^6\, c2^2 - 3240\, a1^8\, b1^5\, b2\, c1\, c2 + 3888\, a1^8\, b1^5\, c1\, c2^2$$
$$+ 1107\, a1^8\, b1^4\, b2^4 - 16092\, a1^8\, b1^4\, b2^3\, c2 + 4860\, a1^8\, b1^4\, b2^2\, c1^2$$
$$+ 67878\, a1^8\, b1^4\, b2^2\, c2^2 - 6480\, a1^8\, b1^4\, b2\, c1^2\, c2 - 103572\, a1^8\, b1^4\, b2\, c2^3$$
$$+ 51408\, a1^8\, b1^4\, c2^4 + 16956\, a1^8\, b1^3\, b2^4\, c1 - 178632\, a1^8\, b1^3\, b2^3\, c1\, c2$$
$$- 6480\, a1^8\, b1^3\, b2^2\, c1^3 + 486648\, a1^8\, b1^3\, b2^2\, c1\, c2^2 + 15120\, a1^8\, b1^3\, b2\, c1^3\, c2$$
$$- 484812\, a1^8\, b1^3\, b2\, c1\, c2^3 - 6480\, a1^8\, b1^3\, c1^3\, c2^2 + 156924\, a1^8\, b1^3\, c1\, c2^4$$
$$- 27810\, a1^8\, b1^2\, b2^6 + 284148\, a1^8\, b1^2\, b2^5\, c2 + 134460\, a1^8\, b1^2\, b2^4\, c1^2$$
$$- 1166724\, a1^8\, b1^2\, b2^4\, c2^2 - 660312\, a1^8\, b1^2\, b2^3\, c1^2\, c2 + 2364120\, a1^8\, b1^2\, b2^3\, c2^3$$
$$+ 1056078\, a1^8\, b1^2\, b2^2\, c1^2\, c2^2 - 2498850\, a1^8\, b1^2\, b2^2\, c2^4 - 6480\, a1^8\, b1^2\, b2\, c1^4\, c2$$
$$- 660312\, a1^8\, b1^2\, b2\, c1^2\, c2^3 + 1318356\, a1^8\, b1^2\, b2\, c2^5 + 4860\, a1^8\, b1^2\, c1^4\, c2^2$$
$$+ 134460\, a1^8\, b1^2\, c1^2\, c2^4 - 273240\, a1^8\, b1^2\, c2^6 - 109620\, a1^8\, b1\, b2^6\, c1$$
$$+ 992736\, a1^8\, b1\, b2^5\, c1\, c2 + 156924\, a1^8\, b1\, b2^4\, c1^3 - 3019356\, a1^8\, b1\, b2^4\, c1\, c2^2$$
$$- 484812\, a1^8\, b1\, b2^3\, c1^3\, c2 + 4272480\, a1^8\, b1\, b2^3\, c1\, c2^3 + 3888\, a1^8\, b1\, b2^2\, c1^5$$
$$+ 486648\, a1^8\, b1\, b2^2\, c1^3\, c2^2 - 3019356\, a1^8\, b1\, b2^2\, c1\, c2^4 - 3240\, a1^8\, b1\, b2\, c1^5\, c2$$
$$- 178632\, a1^8\, b1\, b2\, c1^3\, c2^3 + 992736\, a1^8\, b1\, b2\, c1\, c2^5 + 16956\, a1^8\, b1\, c1^3\, c2^4$$
$$- 109620\, a1^8\, b1\, c1\, c2^6 + 8851\, a1^8\, b2^8 - 89168\, a1^8\, b2^7\, c2 - 273240\, a1^8\, b2^6\, c1^2$$
$$+ 362362\, a1^8\, b2^6\, c2^2 + 1318356\, a1^8\, b2^5\, c1^2\, c2 - 788552\, a1^8\, b2^5\, c2^3$$
$$+ 51408\, a1^8\, b2^4\, c1^4 - 2498850\, a1^8\, b2^4\, c1^2\, c2^2 + 1013014\, a1^8\, b2^4\, c2^4$$
$$- 103572\, a1^8\, b2^3\, c1^4\, c2 + 2364120\, a1^8\, b2^3\, c1^2\, c2^3 - 788552\, a1^8\, b2^3\, c2^5$$
$$- 1620\, a1^8\, b2^2\, c1^6 + 67878\, a1^8\, b2^2\, c1^4\, c2^2 - 1166724\, a1^8\, b2^2\, c1^2\, c2^4$$
$$+ 362362\, a1^8\, b2^2\, c2^6 + 2160\, a1^8\, b2\, c1^6\, c2 - 16092\, a1^8\, b2\, c1^4\, c2^3$$
$$+ 284148\, a1^8\, b2\, c1^2\, c2^5 - 89168\, a1^8\, b2\, c2^7 - 648\, a1^8\, c1^6\, c2^2 + 1107\, a1^8\, c1^4\, c2^4$$
$$- 27810\, a1^8\, c1^2\, c2^6 + 8851\, a1^8\, c2^8 - 11664\, a1^7\, a2^5\, b1^3\, b2 + 11664\, a1^7\, a2^5\, b1^3\, c2$$
$$+ 34992\, a1^7\, a2^5\, b1^2\, b2\, c1 - 34992\, a1^7\, a2^5\, b1^2\, c1\, c2 - 17496\, a1^7\, a2^5\, b1\, b2^3$$

$$+ 52488\, a1^7\, a2^5\, b1\, b2^2\, c2 - 34992\, a1^7\, a2^5\, b1\, b2\, c1^2 - 52488\, a1^7\, a2^5\, b1\, b2\, c2^2$$
$$+ 34992\, a1^7\, a2^5\, b1\, c1^2\, c2 + 17496\, a1^7\, a2^5\, b1\, c2^3 + 17496\, a1^7\, a2^5\, b2^3\, c1$$
$$- 52488\, a1^7\, a2^5\, b2^2\, c1\, c2 + 11664\, a1^7\, a2^5\, b2\, c1^3 + 52488\, a1^7\, a2^5\, b2\, c1\, c2^2$$
$$- 11664\, a1^7\, a2^5\, c1^3\, c2 - 17496\, a1^7\, a2^5\, c1\, c2^3 - 2916\, a1^7\, a2^4\, b1^5$$
$$+ 8748\, a1^7\, a2^4\, b1^4\, c1 - 40824\, a1^7\, a2^4\, b1^3\, b2^2 + 139968\, a1^7\, a2^4\, b1^3\, b2\, c2$$
$$- 5832\, a1^7\, a2^4\, b1^3\, c1^2 - 99144\, a1^7\, a2^4\, b1^3\, c2^2 - 17496\, a1^7\, a2^4\, b1^2\, b2^2\, c1$$
$$- 139968\, a1^7\, a2^4\, b1^2\, b2\, c1\, c2 - 5832\, a1^7\, a2^4\, b1^2\, c1^3 + 157464\, a1^7\, a2^4\, b1^2\, c1\, c2^2$$
$$+ 26244\, a1^7\, a2^4\, b1\, b2^4 - 17496\, a1^7\, a2^4\, b1\, b2^3\, c2 + 157464\, a1^7\, a2^4\, b1\, b2^2\, c1^2$$
$$- 104976\, a1^7\, a2^4\, b1\, b2^2\, c2^2 - 139968\, a1^7\, a2^4\, b1\, b2\, c1^2\, c2 + 157464\, a1^7\, a2^4\, b1\, b2\, c2^3$$
$$+ 8748\, a1^7\, a2^4\, b1\, c1^4 - 17496\, a1^7\, a2^4\, b1\, c1^2\, c2^2 - 61236\, a1^7\, a2^4\, b1\, c2^4$$
$$- 61236\, a1^7\, a2^4\, b2^4\, c1 + 157464\, a1^7\, a2^4\, b2^3\, c1\, c2 - 99144\, a1^7\, a2^4\, b2^2\, c1^3$$
$$- 104976\, a1^7\, a2^4\, b2^2\, c1\, c2^2 + 139968\, a1^7\, a2^4\, b2\, c1^3\, c2 - 17496\, a1^7\, a2^4\, b2\, c1\, c2^3$$
$$- 2916\, a1^7\, a2^4\, c1^5 - 40824\, a1^7\, a2^4\, c1^3\, c2^2 + 26244\, a1^7\, a2^4\, c1\, c2^4$$
$$- 17064\, a1^7\, a2^3\, b1^5\, b2 + 28728\, a1^7\, a2^3\, b1^5\, c2 - 7992\, a1^7\, a2^3\, b1^4\, b2\, c1$$
$$- 27000\, a1^7\, a2^3\, b1^4\, c1\, c2 + 200016\, a1^7\, a2^3\, b1^3\, b2^3 - 436752\, a1^7\, a2^3\, b1^3\, b2^2\, c2$$
$$+ 97632\, a1^7\, a2^3\, b1^3\, b2\, c1^2 + 156816\, a1^7\, a2^3\, b1^3\, b2\, c2^2 - 74304\, a1^7\, a2^3\, b1^3\, c1^2\, c2$$
$$+ 79920\, a1^7\, a2^3\, b1^3\, c2^3 - 740016\, a1^7\, a2^3\, b1^2\, b2^3\, c1 + 2290032\, a1^7\, a2^3\, b1^2\, b2^2\, c1\, c2$$
$$- 74304\, a1^7\, a2^3\, b1^2\, b2\, c1^3 - 2010096\, a1^7\, a2^3\, b1^2\, b2\, c1\, c2^2 + 97632\, a1^7\, a2^3\, b1^2\, c1^3\, c2$$
$$+ 460080\, a1^7\, a2^3\, b1^2\, c1\, c2^3 + 109080\, a1^7\, a2^3\, b1\, b2^5 - 650376\, a1^7\, a2^3\, b1\, b2^4\, c2$$
$$+ 460080\, a1^7\, a2^3\, b1\, b2^3\, c1^2 + 1335744\, a1^7\, a2^3\, b1\, b2^3\, c2^2$$
$$- 2010096\, a1^7\, a2^3\, b1\, b2^2\, c1^2\, c2 - 1195776\, a1^7\, a2^3\, b1\, b2^2\, c2^3$$
$$- 27000\, a1^7\, a2^3\, b1\, b2\, c1^4 + 2290032\, a1^7\, a2^3\, b1\, b2\, c1^2\, c2^2 + 440424\, a1^7\, a2^3\, b1\, b2\, c2^4$$
$$- 7992\, a1^7\, a2^3\, b1\, c1^4\, c2 - 740016\, a1^7\, a2^3\, b1\, c1^2\, c2^3 - 39096\, a1^7\, a2^3\, b1\, c2^5$$
$$- 39096\, a1^7\, a2^3\, b2^5\, c1 + 440424\, a1^7\, a2^3\, b2^4\, c1\, c2 + 79920\, a1^7\, a2^3\, b2^3\, c1^3$$
$$- 1195776\, a1^7\, a2^3\, b2^3\, c1\, c2^2 + 156816\, a1^7\, a2^3\, b2^2\, c1^3\, c2 + 1335744\, a1^7\, a2^3\, b2^2\, c1\, c2^3$$
$$+ 28728\, a1^7\, a2^3\, b2\, c1^5 - 436752\, a1^7\, a2^3\, b2\, c1^3\, c2^2 - 650376\, a1^7\, a2^3\, b2\, c1\, c2^4$$
$$- 17064\, a1^7\, a2^3\, c1^5\, c2 + 200016\, a1^7\, a2^3\, c1^3\, c2^3 + 109080\, a1^7\, a2^3\, c1\, c2^5$$
$$+ 432\, a1^7\, a2^2\, b1^7 - 2160\, a1^7\, a2^2\, b1^6\, c1 - 18144\, a1^7\, a2^2\, b1^5\, b2^2$$
$$+ 87480\, a1^7\, a2^2\, b1^5\, b2\, c2 + 3888\, a1^7\, a2^2\, b1^5\, c1^2 - 86832\, a1^7\, a2^2\, b1^5\, c2^2$$
$$- 119232\, a1^7\, a2^2\, b1^4\, b2^2\, c1 + 262440\, a1^7\, a2^2\, b1^4\, b2\, c1\, c2 - 2160\, a1^7\, a2^2\, b1^4\, c1^3$$
$$- 90720\, a1^7\, a2^2\, b1^4\, c1\, c2^2 + 305856\, a1^7\, a2^2\, b1^3\, b2^4 - 1823472\, a1^7\, a2^2\, b1^3\, b2^3\, c2$$
$$+ 28512\, a1^7\, a2^2\, b1^3\, b2^2\, c1^2 + 3390336\, a1^7\, a2^2\, b1^3\, b2^2\, c2^2$$
$$- 349920\, a1^7\, a2^2\, b1^3\, b2\, c1^2\, c2 - 2417040\, a1^7\, a2^2\, b1^3\, b2\, c2^3 - 2160\, a1^7\, a2^2\, b1^3\, c1^4$$
$$+ 286416\, a1^7\, a2^2\, b1^3\, c1^2\, c2^2 + 544320\, a1^7\, a2^2\, b1^3\, c2^4 + 387504\, a1^7\, a2^2\, b1^2\, b2^4\, c1$$

$$+ 670032\, a1^7\, a2^2\, b1^2\, b2^3\, c1\, c2 + 286416\, a1^7\, a2^2\, b1^2\, b2^2\, c1^3$$
$$- 4440096\, a1^7\, a2^2\, b1^2\, b2^2\, c1\, c2^2 - 349920\, a1^7\, a2^2\, b1^2\, b2\, c1^3\, c2$$
$$+ 4970160\, a1^7\, a2^2\, b1^2\, b2\, c1\, c2^3 + 3888\, a1^7\, a2^2\, b1^2\, c1^5 + 28512\, a1^7\, a2^2\, b1^2\, c1^3\, c2^2$$
$$- 1587600\, a1^7\, a2^2\, b1^2\, c1\, c2^4 - 98928\, a1^7\, a2^2\, b1\, b2^6 + 266328\, a1^7\, a2^2\, b1\, b2^5\, c2$$
$$- 1587600\, a1^7\, a2^2\, b1\, b2^4\, c1^2 + 309744\, a1^7\, a2^2\, b1\, b2^4\, c2^2$$
$$+ 4970160\, a1^7\, a2^2\, b1\, b2^3\, c1^2\, c2 - 1748736\, a1^7\, a2^2\, b1\, b2^3\, c2^3$$
$$- 90720\, a1^7\, a2^2\, b1\, b2^2\, c1^4 - 4440096\, a1^7\, a2^2\, b1\, b2^2\, c1^2\, c2^2$$
$$+ 2208384\, a1^7\, a2^2\, b1\, b2^2\, c2^4 + 262440\, a1^7\, a2^2\, b1\, b2\, c1^4\, c2$$
$$+ 670032\, a1^7\, a2^2\, b1\, b2\, c1^2\, c2^3 - 1147608\, a1^7\, a2^2\, b1\, b2\, c2^5 - 2160\, a1^7\, a2^2\, b1\, c1^6$$
$$- 119232\, a1^7\, a2^2\, b1\, c1^4\, c2^2 + 387504\, a1^7\, a2^2\, b1\, c1^2\, c2^4 + 210816\, a1^7\, a2^2\, b1\, c2^6$$
$$+ 210816\, a1^7\, a2^2\, b2^6\, c1 - 1147608\, a1^7\, a2^2\, b2^5\, c1\, c2 + 544320\, a1^7\, a2^2\, b2^4\, c1^3$$
$$+ 2208384\, a1^7\, a2^2\, b2^4\, c1\, c2^2 - 2417040\, a1^7\, a2^2\, b2^3\, c1^3\, c2$$
$$- 1748736\, a1^7\, a2^2\, b2^3\, c1\, c2^3 - 86832\, a1^7\, a2^2\, b2^2\, c1^5 + 3390336\, a1^7\, a2^2\, b2^2\, c1^3\, c2^2$$
$$+ 309744\, a1^7\, a2^2\, b2^2\, c1\, c2^4 + 87480\, a1^7\, a2^2\, b2\, c1^5\, c2 - 1823472\, a1^7\, a2^2\, b2\, c1^3\, c2^3$$
$$+ 266328\, a1^7\, a2^2\, b2\, c1\, c2^5 + 432\, a1^7\, a2^2\, c1^7 - 18144\, a1^7\, a2^2\, c1^5\, c2^2$$
$$+ 305856\, a1^7\, a2^2\, c1^3\, c2^4 - 98928\, a1^7\, a2^2\, c1\, c2^6 + 1296\, a1^7\, a2\, b1^7\, b2$$
$$- 2160\, a1^7\, a2\, b1^7\, c2 - 2160\, a1^7\, a2\, b1^6\, b2\, c1 + 6480\, a1^7\, a2\, b1^6\, c1\, c2$$
$$- 8316\, a1^7\, a2\, b1^5\, b2^3 + 61236\, a1^7\, a2\, b1^5\, b2^2\, c2 - 6480\, a1^7\, a2\, b1^5\, b2\, c1^2$$
$$- 148716\, a1^7\, a2\, b1^5\, b2\, c2^2 - 1296\, a1^7\, a2\, b1^5\, c1^2\, c2 + 107460\, a1^7\, a2\, b1^5\, c2^3$$
$$- 51732\, a1^7\, a2\, b1^4\, b2^3\, c1 + 393660\, a1^7\, a2\, b1^4\, b2^2\, c1\, c2 + 19440\, a1^7\, a2\, b1^4\, b2\, c1^3$$
$$- 656100\, a1^7\, a2\, b1^4\, b2\, c1\, c2^2 - 15120\, a1^7\, a2\, b1^4\, c1^3\, c2 + 279180\, a1^7\, a2\, b1^4\, c1\, c2^3$$
$$+ 171288\, a1^7\, a2\, b1^3\, b2^5 - 1468152\, a1^7\, a2\, b1^3\, b2^4\, c2 - 339768\, a1^7\, a2\, b1^3\, b2^3\, c1^2$$
$$+ 4759776\, a1^7\, a2\, b1^3\, b2^3\, c2^2 + 962280\, a1^7\, a2\, b1^3\, b2^2\, c1^2\, c2$$
$$- 7020000\, a1^7\, a2\, b1^3\, b2^2\, c2^3 - 15120\, a1^7\, a2\, b1^3\, b2\, c1^4 - 612360\, a1^7\, a2\, b1^3\, b2\, c1^2\, c2^2$$
$$+ 4718520\, a1^7\, a2\, b1^3\, b2\, c2^4 + 19440\, a1^7\, a2\, b1^3\, c1^4\, c2 + 13176\, a1^7\, a2\, b1^3\, c1^2\, c2^3$$
$$- 1161432\, a1^7\, a2\, b1^3\, c2^5 + 424440\, a1^7\, a2\, b1^2\, b2^5\, c1 - 2897208\, a1^7\, a2\, b1^2\, b2^4\, c1\, c2$$
$$+ 13176\, a1^7\, a2\, b1^2\, b2^3\, c1^3 + 5124384\, a1^7\, a2\, b1^2\, b2^3\, c1\, c2^2$$
$$- 612360\, a1^7\, a2\, b1^2\, b2^2\, c1^3\, c2 - 2164320\, a1^7\, a2\, b1^2\, b2^2\, c1\, c2^3$$
$$- 1296\, a1^7\, a2\, b1^2\, b2\, c1^5 + 962280\, a1^7\, a2\, b1^2\, b2\, c1^3\, c2^2$$
$$- 1402920\, a1^7\, a2\, b1^2\, b2\, c1\, c2^4 - 6480\, a1^7\, a2\, b1^2\, c1^5\, c2 - 339768\, a1^7\, a2\, b1^2\, c1^3\, c2^3$$
$$+ 915624\, a1^7\, a2\, b1^2\, c1\, c2^5 - 126428\, a1^7\, a2\, b1\, b2^7 + 1082852\, a1^7\, a2\, b1\, b2^6\, c2$$
$$+ 915624\, a1^7\, a2\, b1\, b2^5\, c1^2 - 3514884\, a1^7\, a2\, b1\, b2^5\, c2^2$$
$$- 1402920\, a1^7\, a2\, b1\, b2^4\, c1^2\, c2 + 5651644\, a1^7\, a2\, b1\, b2^4\, c2^3$$
$$+ 279180\, a1^7\, a2\, b1\, b2^3\, c1^4 - 2164320\, a1^7\, a2\, b1\, b2^3\, c1^2\, c2^2$$

$$- 4777276\, a1^7\, a2\, b1\, b2^3\, c2^4 - 656100\, a1^7\, a2\, b1\, b2^2\, c1^4\, c2$$
$$+ 5124384\, a1^7\, a2\, b1\, b2^2\, c1^2\, c2^3 + 1983012\, a1^7\, a2\, b1\, b2^2\, c2^5 + 6480\, a1^7\, a2\, b1\, b2\, c1^6$$
$$+ 393660\, a1^7\, a2\, b1\, b2\, c1^4\, c2^2 - 2897208\, a1^7\, a2\, b1\, b2\, c1^2\, c2^4$$
$$- 278468\, a1^7\, a2\, b1\, b2\, c2^6 - 2160\, a1^7\, a2\, b1\, c1^6\, c2 - 51732\, a1^7\, a2\, b1\, c1^4\, c2^3$$
$$+ 424440\, a1^7\, a2\, b1\, c1^2\, c2^5 - 20452\, a1^7\, a2\, b1\, c2^7 - 20452\, a1^7\, a2\, b2^7\, c1$$
$$- 278468\, a1^7\, a2\, b2^6\, c1\, c2 - 1161432\, a1^7\, a2\, b2^5\, c1^3 + 1983012\, a1^7\, a2\, b2^5\, c1\, c2^2$$
$$+ 4718520\, a1^7\, a2\, b2^4\, c1^3\, c2 - 4777276\, a1^7\, a2\, b2^4\, c1\, c2^3 + 107460\, a1^7\, a2\, b2^3\, c1^5$$
$$- 7020000\, a1^7\, a2\, b2^3\, c1^3\, c2^2 + 5651644\, a1^7\, a2\, b2^3\, c1\, c2^4 - 148716\, a1^7\, a2\, b2^2\, c1^5\, c2$$
$$+ 4759776\, a1^7\, a2\, b2^2\, c1^3\, c2^3 - 3514884\, a1^7\, a2\, b2^2\, c1\, c2^5 - 2160\, a1^7\, a2\, b2\, c1^7$$
$$+ 61236\, a1^7\, a2\, b2\, c1^5\, c2^2 - 1468152\, a1^7\, a2\, b2\, c1^3\, c2^4 + 1082852\, a1^7\, a2\, b2\, c1\, c2^6$$
$$+ 1296\, a1^7\, a2\, c1^7\, c2 - 8316\, a1^7\, a2\, c1^5\, c2^3 + 171288\, a1^7\, a2\, c1^3\, c2^5$$
$$- 126428\, a1^7\, a2\, c1\, c2^7 + 432\, a1^7\, b1^7\, b2^2 - 2160\, a1^7\, b1^7\, b2\, c2 + 2160\, a1^7\, b1^7\, c2^2$$
$$+ 2160\, a1^7\, b1^6\, b2^2\, c1 - 2160\, a1^7\, b1^6\, b2\, c1\, c2 - 2160\, a1^7\, b1^6\, c1\, c2^2$$
$$- 1944\, a1^7\, b1^5\, b2^4 + 16092\, a1^7\, b1^5\, b2^3\, c2 - 6480\, a1^7\, b1^5\, b2^2\, c1^2$$
$$- 54756\, a1^7\, b1^5\, b2^2\, c2^2 + 19440\, a1^7\, b1^5\, b2\, c1^2\, c2 + 86076\, a1^7\, b1^5\, b2\, c2^3$$
$$- 9072\, a1^7\, b1^5\, c1^2\, c2^2 - 48384\, a1^7\, b1^5\, c2^4 + 864\, a1^7\, b1^4\, b2^4\, c1$$
$$+ 48276\, a1^7\, b1^4\, b2^3\, c1\, c2 - 2160\, a1^7\, b1^4\, b2^2\, c1^3 - 269244\, a1^7\, b1^4\, b2^2\, c1\, c2^2$$
$$- 15120\, a1^7\, b1^4\, b2\, c1^3\, c2 + 398196\, a1^7\, b1^4\, b2\, c1\, c2^3 + 15120\, a1^7\, b1^4\, c1^3\, c2^2$$
$$- 169344\, a1^7\, b1^4\, c1\, c2^4 + 15984\, a1^7\, b1^3\, b2^6 - 267192\, a1^7\, b1^3\, b2^5\, c2$$
$$- 69552\, a1^7\, b1^3\, b2^4\, c1^2 + 1402056\, a1^7\, b1^3\, b2^4\, c2^2 + 617976\, a1^7\, b1^3\, b2^3\, c1^2\, c2$$
$$- 3456000\, a1^7\, b1^3\, b2^3\, c2^3 + 15120\, a1^7\, b1^3\, b2^2\, c1^4 - 1408104\, a1^7\, b1^3\, b2^2\, c1^2\, c2^2$$
$$+ 4347000\, a1^7\, b1^3\, b2^2\, c2^4 - 15120\, a1^7\, b1^3\, b2\, c1^4\, c2 + 1142856\, a1^7\, b1^3\, b2\, c1^2\, c2^3$$
$$- 2682504\, a1^7\, b1^3\, b2\, c2^5 - 2160\, a1^7\, b1^3\, c1^4\, c2^2 - 289008\, a1^7\, b1^3\, c1^2\, c2^4$$
$$+ 640656\, a1^7\, b1^3\, c2^6 + 174528\, a1^7\, b1^2\, b2^6\, c1 - 1471608\, a1^7\, b1^2\, b2^5\, c1\, c2$$
$$- 289008\, a1^7\, b1^2\, b2^4\, c1^3 + 5127624\, a1^7\, b1^2\, b2^4\, c1\, c2^2 + 1142856\, a1^7\, b1^2\, b2^3\, c1^3\, c2$$
$$- 8544960\, a1^7\, b1^2\, b2^3\, c1\, c2^3 - 9072\, a1^7\, b1^2\, b2^2\, c1^5 - 1408104\, a1^7\, b1^2\, b2^2\, c1^3\, c2^2$$
$$+ 6949800\, a1^7\, b1^2\, b2^2\, c1\, c2^4 + 19440\, a1^7\, b1^2\, b2\, c1^5\, c2 + 617976\, a1^7\, b1^2\, b2\, c1^3\, c2^3$$
$$- 2499336\, a1^7\, b1^2\, b2\, c1\, c2^5 - 6480\, a1^7\, b1^2\, c1^5\, c2^2 - 69552\, a1^7\, b1^2\, c1^3\, c2^4$$
$$+ 263952\, a1^7\, b1^2\, c1\, c2^6 + 18360\, a1^7\, b1\, b2^8 - 20452\, a1^7\, b1\, b2^7\, c2$$
$$+ 263952\, a1^7\, b1\, b2^6\, c1^2 - 469844\, a1^7\, b1\, b2^6\, c2^2 - 2499336\, a1^7\, b1\, b2^5\, c1^2\, c2$$
$$+ 2111316\, a1^7\, b1\, b2^5\, c2^3 - 169344\, a1^7\, b1\, b2^4\, c1^4 + 6949800\, a1^7\, b1\, b2^4\, c1^2\, c2^2$$
$$- 4052056\, a1^7\, b1\, b2^4\, c2^4 + 398196\, a1^7\, b1\, b2^3\, c1^4\, c2 - 8544960\, a1^7\, b1\, b2^3\, c1^2\, c2^3$$
$$+ 4197100\, a1^7\, b1\, b2^3\, c2^5 - 2160\, a1^7\, b1\, b2^2\, c1^6 - 269244\, a1^7\, b1\, b2^2\, c1^4\, c2^2$$
$$+ 5127624\, a1^7\, b1\, b2^2\, c1^2\, c2^4 - 2429052\, a1^7\, b1\, b2^2\, c2^6 - 2160\, a1^7\, b1\, b2\, c1^6\, c2$$

$$+ 48276\, a1^7\, b1\, b2\, c1^4\, c2^3 - 1471608\, a1^7\, b1\, b2\, c1^2\, c2^5 + 733796\, a1^7\, b1\, b2\, c2^7$$
$$+ 2160\, a1^7\, b1\, c1^6\, c2^2 + 864\, a1^7\, b1\, c1^4\, c2^4 + 174528\, a1^7\, b1\, c1^2\, c2^6 - 89168\, a1^7\, b1\, c2^8$$
$$- 89168\, a1^7\, b2^8\, c1 + 733796\, a1^7\, b2^7\, c1\, c2 + 640656\, a1^7\, b2^6\, c1^3$$
$$- 2429052\, a1^7\, b2^6\, c1\, c2^2 - 2682504\, a1^7\, b2^5\, c1^3\, c2 + 4197100\, a1^7\, b2^5\, c1\, c2^3$$
$$- 48384\, a1^7\, b2^4\, c1^5 + 4347000\, a1^7\, b2^4\, c1^3\, c2^2 - 4052056\, a1^7\, b2^4\, c1\, c2^4$$
$$+ 86076\, a1^7\, b2^3\, c1^5\, c2 - 3456000\, a1^7\, b2^3\, c1^3\, c2^3 + 2111316\, a1^7\, b2^3\, c1\, c2^5$$
$$+ 2160\, a1^7\, b2^2\, c1^7 - 54756\, a1^7\, b2^2\, c1^5\, c2^2 + 1402056\, a1^7\, b2^2\, c1^3\, c2^4$$
$$- 469844\, a1^7\, b2^2\, c1\, c2^6 - 2160\, a1^7\, b2\, c1^7\, c2 + 16092\, a1^7\, b2\, c1^5\, c2^3$$
$$- 267192\, a1^7\, b2\, c1^3\, c2^5 - 20452\, a1^7\, b2\, c1\, c2^7 + 432\, a1^7\, c1^7\, c2^2 - 1944\, a1^7\, c1^5\, c2^4$$
$$+ 15984\, a1^7\, c1^3\, c2^6 + 18360\, a1^7\, c1\, c2^8 + 2916\, a1^6\, a2^6\, b1^4 - 11664\, a1^6\, a2^6\, b1^3\, c1$$
$$+ 26244\, a1^6\, a2^6\, b1^2\, b2^2 - 52488\, a1^6\, a2^6\, b1^2\, b2\, c2 + 17496\, a1^6\, a2^6\, b1^2\, c1^2$$
$$+ 26244\, a1^6\, a2^6\, b1^2\, c2^2 - 52488\, a1^6\, a2^6\, b1\, b2^2\, c1 + 104976\, a1^6\, a2^6\, b1\, b2\, c1\, c2$$
$$- 11664\, a1^6\, a2^6\, b1\, c1^3 - 52488\, a1^6\, a2^6\, b1\, c1\, c2^2 + 2916\, a1^6\, a2^6\, b2^4$$
$$- 11664\, a1^6\, a2^6\, b2^3\, c2 + 26244\, a1^6\, a2^6\, b2^2\, c1^2 + 17496\, a1^6\, a2^6\, b2^2\, c2^2$$
$$- 52488\, a1^6\, a2^6\, b2\, c1^2\, c2 - 11664\, a1^6\, a2^6\, b2\, c2^3 + 2916\, a1^6\, a2^6\, c1^4$$
$$+ 26244\, a1^6\, a2^6\, c1^2\, c2^2 + 2916\, a1^6\, a2^6\, c2^4 + 32076\, a1^6\, a2^5\, b1^4\, b2$$
$$- 49572\, a1^6\, a2^5\, b1^4\, c2 - 46656\, a1^6\, a2^5\, b1^3\, b2\, c1 + 116640\, a1^6\, a2^5\, b1^3\, c1\, c2$$
$$- 17496\, a1^6\, a2^5\, b1^2\, b2^3 - 104976\, a1^6\, a2^5\, b1^2\, b2^2\, c2 - 52488\, a1^6\, a2^5\, b1^2\, b2\, c1^2$$
$$+ 262440\, a1^6\, a2^5\, b1^2\, b2\, c2^2 - 52488\, a1^6\, a2^5\, b1^2\, c1^2\, c2 - 139968\, a1^6\, a2^5\, b1^2\, c2^3$$
$$+ 157464\, a1^6\, a2^5\, b1\, b2^3\, c1 - 157464\, a1^6\, a2^5\, b1\, b2^2\, c1\, c2 + 116640\, a1^6\, a2^5\, b1\, b2\, c1^3$$
$$- 157464\, a1^6\, a2^5\, b1\, b2\, c1\, c2^2 - 46656\, a1^6\, a2^5\, b1\, c1^3\, c2 + 157464\, a1^6\, a2^5\, b1\, c1\, c2^3$$
$$- 8748\, a1^6\, a2^5\, b2^5 + 26244\, a1^6\, a2^5\, b2^4\, c2 - 139968\, a1^6\, a2^5\, b2^3\, c1^2$$
$$- 17496\, a1^6\, a2^5\, b2^3\, c2^2 + 262440\, a1^6\, a2^5\, b2^2\, c1^2\, c2 - 17496\, a1^6\, a2^5\, b2^2\, c2^3$$
$$- 49572\, a1^6\, a2^5\, b2\, c1^4 - 104976\, a1^6\, a2^5\, b2\, c1^2\, c2^2 + 26244\, a1^6\, a2^5\, b2\, c2^4$$
$$+ 32076\, a1^6\, a2^5\, c1^4\, c2 - 17496\, a1^6\, a2^5\, c1^2\, c2^3 - 8748\, a1^6\, a2^5\, c2^5 + 4050\, a1^6\, a2^4\, b1^6$$
$$- 3888\, a1^6\, a2^4\, b1^5\, c1 - 118854\, a1^6\, a2^4\, b1^4\, b2^2 + 77328\, a1^6\, a2^4\, b1^4\, b2\, c2$$
$$- 20898\, a1^6\, a2^4\, b1^4\, c1^2 + 85266\, a1^6\, a2^4\, b1^4\, c2^2 + 761184\, a1^6\, a2^4\, b1^3\, b2^2\, c1$$
$$- 1289088\, a1^6\, a2^4\, b1^3\, b2\, c1\, c2 + 41472\, a1^6\, a2^4\, b1^3\, c1^3 + 352944\, a1^6\, a2^4\, b1^3\, c1\, c2^2$$
$$- 312606\, a1^6\, a2^4\, b1^2\, b2^4 + 1337904\, a1^6\, a2^4\, b1^2\, b2^3\, c2 - 1080540\, a1^6\, a2^4\, b1^2\, b2^2\, c1^2$$
$$- 1744416\, a1^6\, a2^4\, b1^2\, b2^2\, c2^2 + 2423520\, a1^6\, a2^4\, b1^2\, b2\, c1^2\, c2$$
$$+ 725544\, a1^6\, a2^4\, b1^2\, b2\, c2^3 - 20898\, a1^6\, a2^4\, b1^2\, c1^4 - 1080540\, a1^6\, a2^4\, b1^2\, c1^2\, c2^2$$
$$- 6426\, a1^6\, a2^4\, b1^2\, c2^4 + 441504\, a1^6\, a2^4\, b1\, b2^4\, c1 - 2553336\, a1^6\, a2^4\, b1\, b2^3\, c1\, c2$$
$$+ 352944\, a1^6\, a2^4\, b1\, b2^2\, c1^3 + 4223664\, a1^6\, a2^4\, b1\, b2^2\, c1\, c2^2$$
$$- 1289088\, a1^6\, a2^4\, b1\, b2\, c1^3\, c2 - 2553336\, a1^6\, a2^4\, b1\, b2\, c1\, c2^3 - 3888\, a1^6\, a2^4\, b1\, c1^5$$

$$+ 761184\, a1^6\, a2^4\, b1\, c1^3\, c2^2 + 441504\, a1^6\, a2^4\, b1\, c1\, c2^4 - 702\, a1^6\, a2^4\, b2^6$$
$$+ 47952\, a1^6\, a2^4\, b2^5\, c2 - 6426\, a1^6\, a2^4\, b2^4\, c1^2 - 185490\, a1^6\, a2^4\, b2^4\, c2^2$$
$$+ 725544\, a1^6\, a2^4\, b2^3\, c1^2\, c2 + 276480\, a1^6\, a2^4\, b2^3\, c2^3 + 85266\, a1^6\, a2^4\, b2^2\, c1^4$$
$$- 1744416\, a1^6\, a2^4\, b2^2\, c1^2\, c2^2 - 185490\, a1^6\, a2^4\, b2^2\, c2^4 + 77328\, a1^6\, a2^4\, b2\, c1^4\, c2$$
$$+ 1337904\, a1^6\, a2^4\, b2\, c1^2\, c2^3 + 47952\, a1^6\, a2^4\, b2\, c2^5 + 4050\, a1^6\, a2^4\, c1^6$$
$$- 118854\, a1^6\, a2^4\, c1^4\, c2^2 - 312606\, a1^6\, a2^4\, c1^2\, c2^4 - 702\, a1^6\, a2^4\, c2^6$$
$$+ 10800\, a1^6\, a2^3\, b1^6\, b2 - 27000\, a1^6\, a2^3\, b1^6\, c2 + 54648\, a1^6\, a2^3\, b1^5\, b2\, c1$$
$$- 39096\, a1^6\, a2^3\, b1^5\, c1\, c2 - 406944\, a1^6\, a2^3\, b1^4\, b2^3 + 1696248\, a1^6\, a2^3\, b1^4\, b2^2\, c2$$
$$- 108648\, a1^6\, a2^3\, b1^4\, b2\, c1^2 - 1850904\, a1^6\, a2^3\, b1^4\, b2\, c2^2 + 192240\, a1^6\, a2^3\, b1^4\, c1^2\, c2$$
$$+ 503280\, a1^6\, a2^3\, b1^4\, c2^3 + 227664\, a1^6\, a2^3\, b1^3\, b2^3\, c1 - 3727728\, a1^6\, a2^3\, b1^3\, b2^2\, c1\, c2$$
$$- 82944\, a1^6\, a2^3\, b1^3\, b2\, c1^3 + 6305904\, a1^6\, a2^3\, b1^3\, b2\, c1\, c2^2 - 82944\, a1^6\, a2^3\, b1^3\, c1^3\, c2$$
$$- 2572560\, a1^6\, a2^3\, b1^3\, c1\, c2^3 + 190944\, a1^6\, a2^3\, b1^2\, b2^5 + 295704\, a1^6\, a2^3\, b1^2\, b2^4\, c2$$
$$+ 2248560\, a1^6\, a2^3\, b1^2\, b2^3\, c1^2 - 3267216\, a1^6\, a2^3\, b1^2\, b2^3\, c2^2$$
$$- 2423520\, a1^6\, a2^3\, b1^2\, b2^2\, c1^2\, c2 + 5593104\, a1^6\, a2^3\, b1^2\, b2^2\, c2^3$$
$$+ 192240\, a1^6\, a2^3\, b1^2\, b2\, c1^4 - 2423520\, a1^6\, a2^3\, b1^2\, b2\, c1^2\, c2^2$$
$$- 3522096\, a1^6\, a2^3\, b1^2\, b2\, c2^4 - 108648\, a1^6\, a2^3\, b1^2\, c1^4\, c2$$
$$+ 2248560\, a1^6\, a2^3\, b1^2\, c1^2\, c2^3 + 709560\, a1^6\, a2^3\, b1^2\, c2^5 - 1145448\, a1^6\, a2^3\, b1\, b2^5\, c1$$
$$+ 3961224\, a1^6\, a2^3\, b1\, b2^4\, c1\, c2 - 2572560\, a1^6\, a2^3\, b1\, b2^3\, c1^3$$
$$- 2815776\, a1^6\, a2^3\, b1\, b2^3\, c1\, c2^2 + 6305904\, a1^6\, a2^3\, b1\, b2^2\, c1^3\, c2$$
$$- 2815776\, a1^6\, a2^3\, b1\, b2^2\, c1\, c2^3 - 39096\, a1^6\, a2^3\, b1\, b2\, c1^5$$
$$- 3727728\, a1^6\, a2^3\, b1\, b2\, c1^3\, c2^2 + 3961224\, a1^6\, a2^3\, b1\, b2\, c1\, c2^4$$
$$+ 54648\, a1^6\, a2^3\, b1\, c1^5\, c2 + 227664\, a1^6\, a2^3\, b1\, c1^3\, c2^3 - 1145448\, a1^6\, a2^3\, b1\, c1\, c2^5$$
$$+ 15984\, a1^6\, a2^3\, b2^7 - 109080\, a1^6\, a2^3\, b2^6\, c2 + 709560\, a1^6\, a2^3\, b2^5\, c1^2$$
$$+ 231336\, a1^6\, a2^3\, b2^5\, c2^2 - 3522096\, a1^6\, a2^3\, b2^4\, c1^2\, c2 - 138240\, a1^6\, a2^3\, b2^4\, c2^3$$
$$+ 503280\, a1^6\, a2^3\, b2^3\, c1^4 + 5593104\, a1^6\, a2^3\, b2^3\, c1^2\, c2^2 - 138240\, a1^6\, a2^3\, b2^3\, c2^4$$
$$- 1850904\, a1^6\, a2^3\, b2^2\, c1^4\, c2 - 3267216\, a1^6\, a2^3\, b2^2\, c1^2\, c2^3 + 231336\, a1^6\, a2^3\, b2^2\, c2^5$$
$$- 27000\, a1^6\, a2^3\, b2\, c1^6 + 1696248\, a1^6\, a2^3\, b2\, c1^4\, c2^2 + 295704\, a1^6\, a2^3\, b2\, c1^2\, c2^4$$
$$- 109080\, a1^6\, a2^3\, b2\, c2^6 + 10800\, a1^6\, a2^3\, c1^6\, c2 - 406944\, a1^6\, a2^3\, c1^4\, c2^3$$
$$+ 190944\, a1^6\, a2^3\, c1^2\, c2^5 + 15984\, a1^6\, a2^3\, c2^7 - 648\, a1^6\, a2^2\, b1^8 + 2160\, a1^6\, a2^2\, b1^7\, c1$$
$$+ 14418\, a1^6\, a2^2\, b1^6\, b2^2 - 61236\, a1^6\, a2^2\, b1^6\, b2\, c2 + 71118\, a1^6\, a2^2\, b1^6\, c2^2$$
$$+ 40500\, a1^6\, a2^2\, b1^5\, b2^2\, c1 - 244944\, a1^6\, a2^2\, b1^5\, b2\, c1\, c2 - 9072\, a1^6\, a2^2\, b1^5\, c1^3$$
$$+ 181116\, a1^6\, a2^2\, b1^5\, c1\, c2^2 - 444582\, a1^6\, a2^2\, b1^4\, b2^4 + 2999160\, a1^6\, a2^2\, b1^4\, b2^3\, c2$$
$$+ 316062\, a1^6\, a2^2\, b1^4\, b2^2\, c1^2 - 7043112\, a1^6\, a2^2\, b1^4\, b2^2\, c2^2$$
$$- 306180\, a1^6\, a2^2\, b1^4\, b2\, c1^2\, c2 + 6546312\, a1^6\, a2^2\, b1^4\, b2\, c2^3 + 15120\, a1^6\, a2^2\, b1^4\, c1^4$$

$$- 135270\, a1^6\, a2^2\, b1^4\, c1^2\, c2^2 - 2014038\, a1^6\, a2^2\, b1^4\, c2^4 - 362664\, a1^6\, a2^2\, b1^3\, b2^4\, c1$$
$$+ 767664\, a1^6\, a2^2\, b1^3\, b2^3\, c1\, c2 - 487944\, a1^6\, a2^2\, b1^3\, b2^2\, c1^3$$
$$+ 4440096\, a1^6\, a2^2\, b1^3\, b2^2\, c1\, c2^2 + 1224720\, a1^6\, a2^2\, b1^3\, b2\, c1^3\, c2$$
$$- 9265968\, a1^6\, a2^2\, b1^3\, b2\, c1\, c2^3 - 9072\, a1^6\, a2^2\, b1^3\, c1^5 - 487944\, a1^6\, a2^2\, b1^3\, c1^3\, c2^2$$
$$+ 4245912\, a1^6\, a2^2\, b1^3\, c1\, c2^4 + 588190\, a1^6\, a2^2\, b1^2\, b2^6 - 4101972\, a1^6\, a2^2\, b1^2\, b2^5\, c2$$
$$- 812268\, a1^6\, a2^2\, b1^2\, b2^4\, c1^2 + 9811374\, a1^6\, a2^2\, b1^2\, b2^4\, c2^2$$
$$- 3496608\, a1^6\, a2^2\, b1^2\, b2^3\, c1^2\, c2 - 9814616\, a1^6\, a2^2\, b1^2\, b2^3\, c2^3$$
$$- 135270\, a1^6\, a2^2\, b1^2\, b2^2\, c1^4 + 8880192\, a1^6\, a2^2\, b1^2\, b2^2\, c1^2\, c2^2$$
$$+ 3166134\, a1^6\, a2^2\, b1^2\, b2^2\, c2^4 - 306180\, a1^6\, a2^2\, b1^2\, b2\, c1^4\, c2$$
$$- 3496608\, a1^6\, a2^2\, b1^2\, b2\, c1^2\, c2^3 + 846804\, a1^6\, a2^2\, b1^2\, b2\, c2^5$$
$$+ 316062\, a1^6\, a2^2\, b1^2\, c1^4\, c2^2 - 812268\, a1^6\, a2^2\, b1^2\, c1^2\, c2^4 - 495914\, a1^6\, a2^2\, b1^2\, c2^6$$
$$- 483884\, a1^6\, a2^2\, b1\, b2^6\, c1 + 6339648\, a1^6\, a2^2\, b1\, b2^5\, c1\, c2$$
$$+ 4245912\, a1^6\, a2^2\, b1\, b2^4\, c1^3 - 21790956\, a1^6\, a2^2\, b1\, b2^4\, c1\, c2^2$$
$$- 9265968\, a1^6\, a2^2\, b1\, b2^3\, c1^3\, c2 + 31870384\, a1^6\, a2^2\, b1\, b2^3\, c1\, c2^3$$
$$+ 181116\, a1^6\, a2^2\, b1\, b2^2\, c1^5 + 4440096\, a1^6\, a2^2\, b1\, b2^2\, c1^3\, c2^2$$
$$- 21790956\, a1^6\, a2^2\, b1\, b2^2\, c1\, c2^4 - 244944\, a1^6\, a2^2\, b1\, b2\, c1^5\, c2$$
$$+ 767664\, a1^6\, a2^2\, b1\, b2\, c1^3\, c2^3 + 6339648\, a1^6\, a2^2\, b1\, b2\, c1\, c2^5 + 2160\, a1^6\, a2^2\, b1\, c1^7$$
$$+ 40500\, a1^6\, a2^2\, b1\, c1^5\, c2^2 - 362664\, a1^6\, a2^2\, b1\, c1^3\, c2^4 - 483884\, a1^6\, a2^2\, b1\, c1\, c2^6$$
$$- 27810\, a1^6\, a2^2\, b2^8 + 174528\, a1^6\, a2^2\, b2^7\, c2 - 495914\, a1^6\, a2^2\, b2^6\, c1^2$$
$$- 447228\, a1^6\, a2^2\, b2^6\, c2^2 + 846804\, a1^6\, a2^2\, b2^5\, c1^2\, c2 + 663120\, a1^6\, a2^2\, b2^5\, c2^3$$
$$- 2014038\, a1^6\, a2^2\, b2^4\, c1^4 + 3166134\, a1^6\, a2^2\, b2^4\, c1^2\, c2^2 - 725220\, a1^6\, a2^2\, b2^4\, c2^4$$
$$+ 6546312\, a1^6\, a2^2\, b2^3\, c1^4\, c2 - 9814616\, a1^6\, a2^2\, b2^3\, c1^2\, c2^3 + 663120\, a1^6\, a2^2\, b2^3\, c2^5$$
$$+ 71118\, a1^6\, a2^2\, b2^2\, c1^6 - 7043112\, a1^6\, a2^2\, b2^2\, c1^4\, c2^2 + 9811374\, a1^6\, a2^2\, b2^2\, c1^2\, c2^4$$
$$- 447228\, a1^6\, a2^2\, b2^2\, c2^6 - 61236\, a1^6\, a2^2\, b2\, c1^6\, c2 + 2999160\, a1^6\, a2^2\, b2\, c1^4\, c2^3$$
$$- 4101972\, a1^6\, a2^2\, b2\, c1^2\, c2^5 + 174528\, a1^6\, a2^2\, b2\, c2^7 - 648\, a1^6\, a2^2\, c1^8$$
$$+ 14418\, a1^6\, a2^2\, c1^6\, c2^2 - 444582\, a1^6\, a2^2\, c1^4\, c2^4 + 588190\, a1^6\, a2^2\, c1^2\, c2^6$$
$$- 27810\, a1^6\, a2^2\, c2^8 - 864\, a1^6\, a2\, b1^8\, b2 + 2160\, a1^6\, a2\, b1^8\, c2 - 2160\, a1^6\, a2\, b1^7\, b2\, c1$$
$$- 2160\, a1^6\, a2\, b1^7\, c1\, c2 + 10800\, a1^6\, a2\, b1^6\, b2^3 - 61236\, a1^6\, a2\, b1^6\, b2^2\, c2$$
$$+ 15120\, a1^6\, a2\, b1^6\, b2\, c1^2 + 122472\, a1^6\, a2\, b1^6\, b2\, c2^2 - 15120\, a1^6\, a2\, b1^6\, c1^2\, c2$$
$$- 88236\, a1^6\, a2\, b1^6\, c2^3 - 6588\, a1^6\, a2\, b1^5\, b2^3\, c1 - 61236\, a1^6\, a2\, b1^5\, b2^2\, c1\, c2$$
$$- 15120\, a1^6\, a2\, b1^5\, b2\, c1^3 + 306180\, a1^6\, a2\, b1^5\, b2\, c1\, c2^2 + 33264\, a1^6\, a2\, b1^5\, c1^3\, c2$$
$$- 222804\, a1^6\, a2\, b1^5\, c1\, c2^3 - 105624\, a1^6\, a2\, b1^4\, b2^5 + 1417284\, a1^6\, a2\, b1^4\, b2^4\, c2$$
$$+ 197532\, a1^6\, a2\, b1^4\, b2^3\, c1^2 - 5833728\, a1^6\, a2\, b1^4\, b2^3\, c2^2$$
$$- 1224720\, a1^6\, a2\, b1^4\, b2^2\, c1^2\, c2 + 10529136\, a1^6\, a2\, b1^4\, b2^2\, c2^3$$

$$- 15120\, a1^6\, a2\, b1^4\, b2\, c1^4 + 1530900\, a1^6\, a2\, b1^4\, b2\, c1^2\, c2^2$$
$$- 8537724\, a1^6\, a2\, b1^4\, b2\, c2^4 - 15120\, a1^6\, a2\, b1^4\, c1^4\, c2 - 420120\, a1^6\, a2\, b1^4\, c1^2\, c2^3$$
$$+ 2513160\, a1^6\, a2\, b1^4\, c2^5 - 776520\, a1^6\, a2\, b1^3\, b2^5\, c1 + 4607928\, a1^6\, a2\, b1^3\, b2^4\, c1\, c2$$
$$+ 529416\, a1^6\, a2\, b1^3\, b2^3\, c1^3 - 9983520\, a1^6\, a2\, b1^3\, b2^3\, c1\, c2^2$$
$$- 612360\, a1^6\, a2\, b1^3\, b2^2\, c1^3\, c2 + 7023456\, a1^6\, a2\, b1^3\, b2^2\, c1\, c2^3$$
$$+ 33264\, a1^6\, a2\, b1^3\, b2\, c1^5 - 612360\, a1^6\, a2\, b1^3\, b2\, c1^3\, c2^2$$
$$+ 1121256\, a1^6\, a2\, b1^3\, b2\, c1\, c2^4 - 15120\, a1^6\, a2\, b1^3\, c1^5\, c2 + 529416\, a1^6\, a2\, b1^3\, c1^3\, c2^3$$
$$- 1922616\, a1^6\, a2\, b1^3\, c1\, c2^5 - 98928\, a1^6\, a2\, b1^2\, b2^7 - 483884\, a1^6\, a2\, b1^2\, b2^6\, c2$$
$$- 320760\, a1^6\, a2\, b1^2\, b2^5\, c1^2 + 5553624\, a1^6\, a2\, b1^2\, b2^5\, c2^2$$
$$+ 3228336\, a1^6\, a2\, b1^2\, b2^4\, c1^2\, c2 - 15796956\, a1^6\, a2\, b1^2\, b2^4\, c2^3$$
$$- 420120\, a1^6\, a2\, b1^2\, b2^3\, c1^4 - 2960064\, a1^6\, a2\, b1^2\, b2^3\, c1^2\, c2^2$$
$$+ 20704264\, a1^6\, a2\, b1^2\, b2^3\, c2^4 + 1530900\, a1^6\, a2\, b1^2\, b2^2\, c1^4\, c2$$
$$- 2960064\, a1^6\, a2\, b1^2\, b2^2\, c1^2\, c2^3 - 13689012\, a1^6\, a2\, b1^2\, b2^2\, c2^5$$
$$- 15120\, a1^6\, a2\, b1^2\, b2\, c1^6 - 1224720\, a1^6\, a2\, b1^2\, b2\, c1^4\, c2^2$$
$$+ 3228336\, a1^6\, a2\, b1^2\, b2\, c1^2\, c2^4 + 4280736\, a1^6\, a2\, b1^2\, b2\, c2^6 + 15120\, a1^6\, a2\, b1^2\, c1^6\, c2$$
$$+ 197532\, a1^6\, a2\, b1^2\, c1^4\, c2^3 - 320760\, a1^6\, a2\, b1^2\, c1^2\, c2^5 - 469844\, a1^6\, a2\, b1^2\, c2^7$$
$$+ 1082852\, a1^6\, a2\, b1\, b2^7\, c1 - 6612196\, a1^6\, a2\, b1\, b2^6\, c1\, c2$$
$$- 1922616\, a1^6\, a2\, b1\, b2^5\, c1^3 + 13496940\, a1^6\, a2\, b1\, b2^5\, c1\, c2^2$$
$$+ 1121256\, a1^6\, a2\, b1\, b2^4\, c1^3\, c2 - 7967596\, a1^6\, a2\, b1\, b2^4\, c1\, c2^3$$
$$- 222804\, a1^6\, a2\, b1\, b2^3\, c1^5 + 7023456\, a1^6\, a2\, b1\, b2^3\, c1^3\, c2^2$$
$$- 7967596\, a1^6\, a2\, b1\, b2^3\, c1\, c2^4 + 306180\, a1^6\, a2\, b1\, b2^2\, c1^5\, c2$$
$$- 9983520\, a1^6\, a2\, b1\, b2^2\, c1^3\, c2^3 + 13496940\, a1^6\, a2\, b1\, b2^2\, c1\, c2^5$$
$$- 2160\, a1^6\, a2\, b1\, b2\, c1^7 - 61236\, a1^6\, a2\, b1\, b2\, c1^5\, c2^2 + 4607928\, a1^6\, a2\, b1\, b2\, c1^3\, c2^4$$
$$- 6612196\, a1^6\, a2\, b1\, b2\, c1\, c2^6 - 2160\, a1^6\, a2\, b1\, c1^7\, c2 - 6588\, a1^6\, a2\, b1\, c1^5\, c2^3$$
$$- 776520\, a1^6\, a2\, b1\, c1^3\, c2^5 + 1082852\, a1^6\, a2\, b1\, c1\, c2^7 + 18360\, a1^6\, a2\, b2^9$$
$$- 109620\, a1^6\, a2\, b2^8\, c2 - 469844\, a1^6\, a2\, b2^7\, c1^2 + 263952\, a1^6\, a2\, b2^7\, c2^2$$
$$+ 4280736\, a1^6\, a2\, b2^6\, c1^2\, c2 - 317736\, a1^6\, a2\, b2^6\, c2^3 + 2513160\, a1^6\, a2\, b2^5\, c1^4$$
$$- 13689012\, a1^6\, a2\, b2^5\, c1^2\, c2^2 + 145044\, a1^6\, a2\, b2^5\, c2^4 - 8537724\, a1^6\, a2\, b2^4\, c1^4\, c2$$
$$+ 20704264\, a1^6\, a2\, b2^4\, c1^2\, c2^3 + 145044\, a1^6\, a2\, b2^4\, c2^5 - 88236\, a1^6\, a2\, b2^3\, c1^6$$
$$+ 10529136\, a1^6\, a2\, b2^3\, c1^4\, c2^2 - 15796956\, a1^6\, a2\, b2^3\, c1^2\, c2^4 - 317736\, a1^6\, a2\, b2^3\, c2^6$$
$$+ 122472\, a1^6\, a2\, b2^2\, c1^6\, c2 - 5833728\, a1^6\, a2\, b2^2\, c1^4\, c2^3 + 5553624\, a1^6\, a2\, b2^2\, c1^2\, c2^5$$
$$+ 263952\, a1^6\, a2\, b2^2\, c2^7 + 2160\, a1^6\, a2\, b2\, c1^8 - 61236\, a1^6\, a2\, b2\, c1^6\, c2^2$$
$$+ 1417284\, a1^6\, a2\, b2\, c1^4\, c2^4 - 483884\, a1^6\, a2\, b2\, c1^2\, c2^6 - 109620\, a1^6\, a2\, b2\, c2^8$$
$$- 864\, a1^6\, a2\, c1^8\, c2 + 10800\, a1^6\, a2\, c1^6\, c2^3 - 105624\, a1^6\, a2\, c1^4\, c2^5$$

$$- 98928\, a1^6\, a2\, c1^2\, c2^7 + 18360\, a1^6\, a2\, c2^9 - 108\, a1^6\, b1^8\, b2^2 + 1080\, a1^6\, b1^8\, b2\, c2$$
$$- 1620\, a1^6\, b1^8\, c2^2 - 2160\, a1^6\, b1^7\, b2^2\, c1 + 6480\, a1^6\, b1^7\, b2\, c1\, c2$$
$$- 2160\, a1^6\, b1^7\, c1\, c2^2 + 4050\, a1^6\, b1^6\, b2^4 - 27000\, a1^6\, b1^6\, b2^3\, c2$$
$$+ 71118\, a1^6\, b1^6\, b2^2\, c2^2 - 15120\, a1^6\, b1^6\, b2\, c1^2\, c2 - 88236\, a1^6\, b1^6\, b2\, c2^3$$
$$+ 15120\, a1^6\, b1^6\, c1^2\, c2^2 + 44118\, a1^6\, b1^6\, c2^4 - 10692\, a1^6\, b1^5\, b2^4\, c1$$
$$+ 49356\, a1^6\, b1^5\, b2^3\, c1\, c2 + 15120\, a1^6\, b1^5\, b2^2\, c1^3 - 43416\, a1^6\, b1^5\, b2^2\, c1\, c2^2$$
$$- 15120\, a1^6\, b1^5\, b2\, c1^3\, c2 - 73116\, a1^6\, b1^5\, b2\, c1\, c2^3 - 9072\, a1^6\, b1^5\, c1^3\, c2^2$$
$$+ 73980\, a1^6\, b1^5\, c1\, c2^4 - 702\, a1^6\, b1^4\, b2^6 + 109836\, a1^6\, b1^4\, b2^5\, c2$$
$$+ 23706\, a1^6\, b1^4\, b2^4\, c1^2 - 983232\, a1^6\, b1^4\, b2^4\, c2^2 - 292356\, a1^6\, b1^4\, b2^3\, c1^2\, c2$$
$$+ 3255552\, a1^6\, b1^4\, b2^3\, c2^3 - 15120\, a1^6\, b1^4\, b2^2\, c1^4 + 1050894\, a1^6\, b1^4\, b2^2\, c1^2\, c2^2$$
$$- 5073948\, a1^6\, b1^4\, b2^2\, c2^4 + 45360\, a1^6\, b1^4\, b2\, c1^4\, c2 - 1210896\, a1^6\, b1^4\, b2\, c1^2\, c2^3$$
$$+ 3737124\, a1^6\, b1^4\, b2\, c2^5 - 15120\, a1^6\, b1^4\, c1^4\, c2^2 + 407754\, a1^6\, b1^4\, c1^2\, c2^4$$
$$- 1041714\, a1^6\, b1^4\, c2^6 - 109080\, a1^6\, b1^3\, b2^6\, c1 + 1431000\, a1^6\, b1^3\, b2^5\, c1\, c2$$
$$+ 130680\, a1^6\, b1^3\, b2^4\, c1^3 - 5881464\, a1^6\, b1^3\, b2^4\, c1\, c2^2 - 1052136\, a1^6\, b1^3\, b2^3\, c1^3\, c2$$
$$+ 11169792\, a1^6\, b1^3\, b2^3\, c1\, c2^3 - 9072\, a1^6\, b1^3\, b2^2\, c1^5 + 1884384\, a1^6\, b1^3\, b2^2\, c1^3\, c2^2$$
$$- 10133208\, a1^6\, b1^3\, b2^2\, c1\, c2^4 - 15120\, a1^6\, b1^3\, b2\, c1^5\, c2 - 1052136\, a1^6\, b1^3\, b2\, c1^3\, c2^3$$
$$+ 3829032\, a1^6\, b1^3\, b2\, c1\, c2^5 + 15120\, a1^6\, b1^3\, c1^5\, c2^2 + 130680\, a1^6\, b1^3\, c1^3\, c2^4$$
$$- 317736\, a1^6\, b1^3\, c1\, c2^6 - 13986\, a1^6\, b1^2\, b2^8 + 210816\, a1^6\, b1^2\, b2^7\, c2$$
$$- 447228\, a1^6\, b1^2\, b2^6\, c1^2 - 495914\, a1^6\, b1^2\, b2^6\, c2^2 + 3004128\, a1^6\, b1^2\, b2^5\, c1^2\, c2$$
$$- 859380\, a1^6\, b1^2\, b2^5\, c2^3 + 407754\, a1^6\, b1^2\, b2^4\, c1^4 - 9124488\, a1^6\, b1^2\, b2^4\, c1^2\, c2^2$$
$$+ 5023464\, a1^6\, b1^2\, b2^4\, c2^4 - 1210896\, a1^6\, b1^2\, b2^3\, c1^4\, c2 + 13152672\, a1^6\, b1^2\, b2^3\, c1^2\, c2^3$$
$$- 8159624\, a1^6\, b1^2\, b2^3\, c2^5 + 15120\, a1^6\, b1^2\, b2^2\, c1^6 + 1050894\, a1^6\, b1^2\, b2^2\, c1^4\, c2^2$$
$$- 9124488\, a1^6\, b1^2\, b2^2\, c1^2\, c2^4 + 6361314\, a1^6\, b1^2\, b2^2\, c2^6 - 15120\, a1^6\, b1^2\, b2\, c1^6\, c2$$
$$- 292356\, a1^6\, b1^2\, b2\, c1^4\, c2^3 + 3004128\, a1^6\, b1^2\, b2\, c1^2\, c2^5 - 2429052\, a1^6\, b1^2\, b2\, c2^7$$
$$+ 23706\, a1^6\, b1^2\, c1^4\, c2^4 - 447228\, a1^6\, b1^2\, c1^2\, c2^6 + 362362\, a1^6\, b1^2\, c2^8$$
$$- 100548\, a1^6\, b1\, b2^8\, c1 - 278468\, a1^6\, b1\, b2^7\, c1\, c2 - 317736\, a1^6\, b1\, b2^6\, c1^3$$
$$+ 4280736\, a1^6\, b1\, b2^6\, c1\, c2^2 + 3829032\, a1^6\, b1\, b2^5\, c1^3\, c2 - 13060452\, a1^6\, b1\, b2^5\, c1\, c2^3$$
$$+ 73980\, a1^6\, b1\, b2^4\, c1^5 - 10133208\, a1^6\, b1\, b2^4\, c1^3\, c2^2 + 18317464\, a1^6\, b1\, b2^4\, c1\, c2^4$$
$$- 73116\, a1^6\, b1\, b2^3\, c1^5\, c2 + 11169792\, a1^6\, b1\, b2^3\, c1^3\, c2^3 - 13060452\, a1^6\, b1\, b2^3\, c1\, c2^5$$
$$- 2160\, a1^6\, b1\, b2^2\, c1^7 - 43416\, a1^6\, b1\, b2^2\, c1^5\, c2^2 - 5881464\, a1^6\, b1\, b2^2\, c1^3\, c2^4$$
$$+ 4280736\, a1^6\, b1\, b2^2\, c1\, c2^6 + 6480\, a1^6\, b1\, b2\, c1^7\, c2 + 49356\, a1^6\, b1\, b2\, c1^5\, c2^3$$
$$+ 1431000\, a1^6\, b1\, b2\, c1^3\, c2^5 - 278468\, a1^6\, b1\, b2\, c1\, c2^7 - 2160\, a1^6\, b1\, c1^7\, c2^2$$
$$- 10692\, a1^6\, b1\, c1^5\, c2^4 - 109080\, a1^6\, b1\, c1^3\, c2^6 - 100548\, a1^6\, b1\, c1\, c2^8$$
$$- 9126\, a1^6\, b2^{10} + 72900\, a1^6\, b2^9\, c2 + 362362\, a1^6\, b2^8\, c1^2 - 273240\, a1^6\, b2^8\, c2^2$$

$$- 2429052\, a1^6\, b2^7\, c1^2\, c2 + 640656\, a1^6\, b2^7\, c2^3 - 1041714\, a1^6\, b2^6\, c1^4$$
$$+ 6361314\, a1^6\, b2^6\, c1^2\, c2^2 - 1041714\, a1^6\, b2^6\, c2^4 + 3737124\, a1^6\, b2^5\, c1^4\, c2$$
$$- 8159624\, a1^6\, b2^5\, c1^2\, c2^3 + 1221048\, a1^6\, b2^5\, c2^5 + 44118\, a1^6\, b2^4\, c1^6$$
$$- 5073948\, a1^6\, b2^4\, c1^4\, c2^2 + 5023464\, a1^6\, b2^4\, c1^2\, c2^4 - 1041714\, a1^6\, b2^4\, c2^6$$
$$- 88236\, a1^6\, b2^3\, c1^6\, c2 + 3255552\, a1^6\, b2^3\, c1^4\, c2^3 - 859380\, a1^6\, b2^3\, c1^2\, c2^5$$
$$+ 640656\, a1^6\, b2^3\, c2^7 - 1620\, a1^6\, b2^2\, c1^8 + 71118\, a1^6\, b2^2\, c1^6\, c2^2$$
$$- 983232\, a1^6\, b2^2\, c1^4\, c2^4 - 495914\, a1^6\, b2^2\, c1^2\, c2^6 - 273240\, a1^6\, b2^2\, c2^8$$
$$+ 1080\, a1^6\, b2\, c1^8\, c2 - 27000\, a1^6\, b2\, c1^6\, c2^3 + 109836\, a1^6\, b2\, c1^4\, c2^5$$
$$+ 210816\, a1^6\, b2\, c1^2\, c2^7 + 72900\, a1^6\, b2\, c2^9 - 108\, a1^6\, c1^8\, c2^2 + 4050\, a1^6\, c1^6\, c2^4$$
$$- 702\, a1^6\, c1^4\, c2^6 - 13986\, a1^6\, c1^2\, c2^8 - 9126\, a1^6\, c2^{10} - 17496\, a1^5\, a2^7\, b1^3\, b2$$
$$+ 17496\, a1^5\, a2^7\, b1^3\, c2 + 52488\, a1^5\, a2^7\, b1^2\, b2\, c1 - 52488\, a1^5\, a2^7\, b1^2\, c1\, c2$$
$$- 11664\, a1^5\, a2^7\, b1\, b2^3 + 34992\, a1^5\, a2^7\, b1\, b2^2\, c2 - 52488\, a1^5\, a2^7\, b1\, b2\, c1^2$$
$$- 34992\, a1^5\, a2^7\, b1\, b2\, c2^2 + 52488\, a1^5\, a2^7\, b1\, c1^2\, c2 + 11664\, a1^5\, a2^7\, b1\, c2^3$$
$$+ 11664\, a1^5\, a2^7\, b2^3\, c1 - 34992\, a1^5\, a2^7\, b2^2\, c1\, c2 + 17496\, a1^5\, a2^7\, b2\, c1^3$$
$$+ 34992\, a1^5\, a2^7\, b2\, c1\, c2^2 - 17496\, a1^5\, a2^7\, c1^3\, c2 - 11664\, a1^5\, a2^7\, c1\, c2^3$$
$$- 8748\, a1^5\, a2^6\, b1^5 + 26244\, a1^5\, a2^6\, b1^4\, c1 - 17496\, a1^5\, a2^6\, b1^3\, b2^2$$
$$+ 157464\, a1^5\, a2^6\, b1^3\, b2\, c2 - 17496\, a1^5\, a2^6\, b1^3\, c1^2 - 139968\, a1^5\, a2^6\, b1^3\, c2^2$$
$$- 104976\, a1^5\, a2^6\, b1^2\, b2^2\, c1 - 157464\, a1^5\, a2^6\, b1^2\, b2\, c1\, c2 - 17496\, a1^5\, a2^6\, b1^2\, c1^3$$
$$+ 262440\, a1^5\, a2^6\, b1^2\, c1\, c2^2 + 32076\, a1^5\, a2^6\, b1\, b2^4 - 46656\, a1^5\, a2^6\, b1\, b2^3\, c2$$
$$+ 262440\, a1^5\, a2^6\, b1\, b2^2\, c1^2 - 52488\, a1^5\, a2^6\, b1\, b2^2\, c2^2 - 157464\, a1^5\, a2^6\, b1\, b2\, c1^2\, c2$$
$$+ 116640\, a1^5\, a2^6\, b1\, b2\, c2^3 + 26244\, a1^5\, a2^6\, b1\, c1^4 - 104976\, a1^5\, a2^6\, b1\, c1^2\, c2^2$$
$$- 49572\, a1^5\, a2^6\, b1\, c2^4 - 49572\, a1^5\, a2^6\, b2^4\, c1 + 116640\, a1^5\, a2^6\, b2^3\, c1\, c2$$
$$- 139968\, a1^5\, a2^6\, b2^2\, c1^3 - 52488\, a1^5\, a2^6\, b2^2\, c1\, c2^2 + 157464\, a1^5\, a2^6\, b2\, c1^3\, c2$$
$$- 46656\, a1^5\, a2^6\, b2\, c1\, c2^3 - 8748\, a1^5\, a2^6\, c1^5 - 17496\, a1^5\, a2^6\, c1^3\, c2^2$$
$$+ 32076\, a1^5\, a2^6\, c1\, c2^4 + 28512\, a1^5\, a2^5\, b1^5\, b2 + 23976\, a1^5\, a2^5\, b1^5\, c2$$
$$- 335016\, a1^5\, a2^5\, b1^4\, b2\, c1 + 177552\, a1^5\, a2^5\, b1^4\, c1\, c2 + 435024\, a1^5\, a2^5\, b1^3\, b2^3$$
$$- 1200096\, a1^5\, a2^5\, b1^3\, b2^2\, c2 + 810000\, a1^5\, a2^5\, b1^3\, b2\, c1^2 + 727704\, a1^5\, a2^5\, b1^3\, b2\, c2^2$$
$$- 705024\, a1^5\, a2^5\, b1^3\, c1^2\, c2 + 37368\, a1^5\, a2^5\, b1^3\, c2^3 - 1200096\, a1^5\, a2^5\, b1^2\, b2^3\, c1$$
$$+ 4230144\, a1^5\, a2^5\, b1^2\, b2^2\, c1\, c2 - 705024\, a1^5\, a2^5\, b1^2\, b2\, c1^3$$
$$- 3757752\, a1^5\, a2^5\, b1^2\, b2\, c1\, c2^2 + 810000\, a1^5\, a2^5\, b1^2\, c1^3\, c2$$
$$+ 727704\, a1^5\, a2^5\, b1^2\, c1\, c2^3 + 28512\, a1^5\, a2^5\, b1\, b2^5 - 335016\, a1^5\, a2^5\, b1\, b2^4\, c2$$
$$+ 727704\, a1^5\, a2^5\, b1\, b2^3\, c1^2 + 810000\, a1^5\, a2^5\, b1\, b2^3\, c2^2$$
$$- 3757752\, a1^5\, a2^5\, b1\, b2^2\, c1^2\, c2 - 705024\, a1^5\, a2^5\, b1\, b2^2\, c2^3$$
$$+ 177552\, a1^5\, a2^5\, b1\, b2\, c1^4 + 4230144\, a1^5\, a2^5\, b1\, b2\, c1^2\, c2^2$$

$$+ 177552\, a1^5\, a2^5\, b1\, b2\, c2^4 - 335016\, a1^5\, a2^5\, b1\, c1^4\, c2 - 1200096\, a1^5\, a2^5\, b1\, c1^2\, c2^3$$
$$+ 23976\, a1^5\, a2^5\, b1\, c2^5 + 23976\, a1^5\, a2^5\, b2^5\, c1 + 177552\, a1^5\, a2^5\, b2^4\, c1\, c2$$
$$+ 37368\, a1^5\, a2^5\, b2^3\, c1^3 - 705024\, a1^5\, a2^5\, b2^3\, c1\, c2^2 + 727704\, a1^5\, a2^5\, b2^2\, c1^3\, c2$$
$$+ 810000\, a1^5\, a2^5\, b2^2\, c1\, c2^3 + 23976\, a1^5\, a2^5\, b2\, c1^5 - 1200096\, a1^5\, a2^5\, b2\, c1^3\, c2^2$$
$$- 335016\, a1^5\, a2^5\, b2\, c1\, c2^4 + 28512\, a1^5\, a2^5\, c1^5\, c2 + 435024\, a1^5\, a2^5\, c1^3\, c2^3$$
$$+ 28512\, a1^5\, a2^5\, c1\, c2^5 - 1944\, a1^5\, a2^4\, b1^7 - 10692\, a1^5\, a2^4\, b1^6\, c1$$
$$+ 289656\, a1^5\, a2^4\, b1^5\, b2^2 - 721872\, a1^5\, a2^4\, b1^5\, b2\, c2 + 43740\, a1^5\, a2^4\, b1^5\, c1^2$$
$$+ 300996\, a1^5\, a2^4\, b1^5\, c2^2 - 735156\, a1^5\, a2^4\, b1^4\, b2^2\, c1 + 3145392\, a1^5\, a2^4\, b1^4\, b2\, c1\, c2$$
$$- 31104\, a1^5\, a2^4\, b1^4\, c1^3 - 2016576\, a1^5\, a2^4\, b1^4\, c1\, c2^2 - 110376\, a1^5\, a2^4\, b1^3\, b2^4$$
$$- 1733616\, a1^5\, a2^4\, b1^3\, b2^3\, c2 - 813240\, a1^5\, a2^4\, b1^3\, b2^2\, c1^2$$
$$+ 5600664\, a1^5\, a2^4\, b1^3\, b2^2\, c2^2 - 2423520\, a1^5\, a2^4\, b1^3\, b2\, c1^2\, c2$$
$$- 4946616\, a1^5\, a2^4\, b1^3\, b2\, c2^3 - 31104\, a1^5\, a2^4\, b1^3\, c1^4 + 2974320\, a1^5\, a2^4\, b1^3\, c1^2\, c2^2$$
$$+ 1189944\, a1^5\, a2^4\, b1^3\, c2^4 + 2206764\, a1^5\, a2^4\, b1^2\, b2^4\, c1$$
$$- 2826576\, a1^5\, a2^4\, b1^2\, b2^3\, c1\, c2 + 2974320\, a1^5\, a2^4\, b1^2\, b2^2\, c1^3$$
$$- 6335496\, a1^5\, a2^4\, b1^2\, b2^2\, c1\, c2^2 - 2423520\, a1^5\, a2^4\, b1^2\, b2\, c1^3\, c2$$
$$+ 10486584\, a1^5\, a2^4\, b1^2\, b2\, c1\, c2^3 + 43740\, a1^5\, a2^4\, b1^2\, c1^5 - 813240\, a1^5\, a2^4\, b1^2\, c1^3\, c2^2$$
$$- 3531276\, a1^5\, a2^4\, b1^2\, c1\, c2^4 - 105624\, a1^5\, a2^4\, b1\, b2^6 + 491184\, a1^5\, a2^4\, b1\, b2^5\, c2$$
$$- 3531276\, a1^5\, a2^4\, b1\, b2^4\, c1^2 - 390420\, a1^5\, a2^4\, b1\, b2^4\, c2^2$$
$$+ 10486584\, a1^5\, a2^4\, b1\, b2^3\, c1^2\, c2 - 829440\, a1^5\, a2^4\, b1\, b2^3\, c2^3$$
$$- 2016576\, a1^5\, a2^4\, b1\, b2^2\, c1^4 - 6335496\, a1^5\, a2^4\, b1\, b2^2\, c1^2\, c2^2$$
$$+ 1503360\, a1^5\, a2^4\, b1\, b2^2\, c2^4 + 3145392\, a1^5\, a2^4\, b1\, b2\, c1^4\, c2$$
$$- 2826576\, a1^5\, a2^4\, b1\, b2\, c1^2\, c2^3 - 778896\, a1^5\, a2^4\, b1\, b2\, c2^5 - 10692\, a1^5\, a2^4\, b1\, c1^6$$
$$- 735156\, a1^5\, a2^4\, b1\, c1^4\, c2^2 + 2206764\, a1^5\, a2^4\, b1\, c1^2\, c2^4 + 109836\, a1^5\, a2^4\, b1\, c2^6$$
$$+ 109836\, a1^5\, a2^4\, b2^6\, c1 - 778896\, a1^5\, a2^4\, b2^5\, c1\, c2 + 1189944\, a1^5\, a2^4\, b2^4\, c1^3$$
$$+ 1503360\, a1^5\, a2^4\, b2^4\, c1\, c2^2 - 4946616\, a1^5\, a2^4\, b2^3\, c1^3\, c2 - 829440\, a1^5\, a2^4\, b2^3\, c1\, c2^3$$
$$+ 300996\, a1^5\, a2^4\, b2^2\, c1^5 + 5600664\, a1^5\, a2^4\, b2^2\, c1^3\, c2^2 - 390420\, a1^5\, a2^4\, b2^2\, c1\, c2^4$$
$$- 721872\, a1^5\, a2^4\, b2\, c1^5\, c2 - 1733616\, a1^5\, a2^4\, b2\, c1^3\, c2^3 + 491184\, a1^5\, a2^4\, b2\, c1\, c2^5$$
$$- 1944\, a1^5\, a2^4\, c1^7 + 289656\, a1^5\, a2^4\, c1^5\, c2^2 - 110376\, a1^5\, a2^4\, c1^3\, c2^4$$
$$- 105624\, a1^5\, a2^4\, c1\, c2^6 - 8316\, a1^5\, a2^3\, b1^7\, b2 + 16092\, a1^5\, a2^3\, b1^7\, c2$$
$$- 6588\, a1^5\, a2^3\, b1^6\, b2\, c1 + 49356\, a1^5\, a2^3\, b1^6\, c1\, c2 + 602208\, a1^5\, a2^3\, b1^5\, b2^3$$
$$- 2965248\, a1^5\, a2^3\, b1^5\, b2^2\, c2 - 144180\, a1^5\, a2^3\, b1^5\, b2\, c1^2$$
$$+ 4408992\, a1^5\, a2^3\, b1^5\, b2\, c2^2 - 30780\, a1^5\, a2^3\, b1^5\, c1^2\, c2 - 1870992\, a1^5\, a2^3\, b1^5\, c2^3$$
$$- 569376\, a1^5\, a2^3\, b1^4\, b2^3\, c1 + 4648752\, a1^5\, a2^3\, b1^4\, b2^2\, c1\, c2$$
$$+ 457596\, a1^5\, a2^3\, b1^4\, b2\, c1^3 - 10939536\, a1^5\, a2^3\, b1^4\, b2\, c1\, c2^2$$

$$- 333180\, a1^5\, a2^3\, b1^4\, c1^3\, c2 + 6335280\, a1^5\, a2^3\, b1^4\, c1\, c2^3 - 1369484\, a1^5\, a2^3\, b1^3\, b2^5$$
$$+ 7288924\, a1^5\, a2^3\, b1^3\, b2^4\, c2 + 455760\, a1^5\, a2^3\, b1^3\, b2^3\, c1^2$$
$$- 11110616\, a1^5\, a2^3\, b1^3\, b2^3\, c2^2 + 1885680\, a1^5\, a2^3\, b1^3\, b2^2\, c1^2\, c2$$
$$+ 3643064\, a1^5\, a2^3\, b1^3\, b2^2\, c2^3 - 333180\, a1^5\, a2^3\, b1^3\, b2\, c1^4$$
$$+ 2961360\, a1^5\, a2^3\, b1^3\, b2\, c1^2\, c2^2 + 3125084\, a1^5\, a2^3\, b1^3\, b2\, c2^4$$
$$+ 457596\, a1^5\, a2^3\, b1^3\, c1^4\, c2 - 4952880\, a1^5\, a2^3\, b1^3\, c1^2\, c2^3 - 1576972\, a1^5\, a2^3\, b1^3\, c2^5$$
$$+ 2962788\, a1^5\, a2^3\, b1^2\, b2^5\, c1 - 23640996\, a1^5\, a2^3\, b1^2\, b2^4\, c1\, c2$$
$$- 4952880\, a1^5\, a2^3\, b1^2\, b2^3\, c1^3 + 52935144\, a1^5\, a2^3\, b1^2\, b2^3\, c1\, c2^2$$
$$+ 2961360\, a1^5\, a2^3\, b1^2\, b2^2\, c1^3\, c2 - 44487816\, a1^5\, a2^3\, b1^2\, b2^2\, c1\, c2^3$$
$$- 30780\, a1^5\, a2^3\, b1^2\, b2\, c1^5 + 1885680\, a1^5\, a2^3\, b1^2\, b2\, c1^3\, c2^2$$
$$+ 11757324\, a1^5\, a2^3\, b1^2\, b2\, c1\, c2^4 - 144180\, a1^5\, a2^3\, b1^2\, c1^5\, c2$$
$$+ 455760\, a1^5\, a2^3\, b1^2\, c1^3\, c2^3 + 473556\, a1^5\, a2^3\, b1^2\, c1\, c2^5 + 171288\, a1^5\, a2^3\, b1\, b2^7$$
$$- 776520\, a1^5\, a2^3\, b1\, b2^6\, c2 + 473556\, a1^5\, a2^3\, b1\, b2^5\, c1^2 + 1347192\, a1^5\, a2^3\, b1\, b2^5\, c2^2$$
$$+ 11757324\, a1^5\, a2^3\, b1\, b2^4\, c1^2\, c2 - 1724760\, a1^5\, a2^3\, b1\, b2^4\, c2^3$$
$$+ 6335280\, a1^5\, a2^3\, b1\, b2^3\, c1^4 - 44487816\, a1^5\, a2^3\, b1\, b2^3\, c1^2\, c2^2$$
$$+ 2554200\, a1^5\, a2^3\, b1\, b2^3\, c2^4 - 10939536\, a1^5\, a2^3\, b1\, b2^2\, c1^4\, c2$$
$$+ 52935144\, a1^5\, a2^3\, b1\, b2^2\, c1^2\, c2^3 - 2735208\, a1^5\, a2^3\, b1\, b2^2\, c2^5$$
$$+ 49356\, a1^5\, a2^3\, b1\, b2\, c1^6 + 4648752\, a1^5\, a2^3\, b1\, b2\, c1^4\, c2^2$$
$$- 23640996\, a1^5\, a2^3\, b1\, b2\, c1^2\, c2^4 + 1431000\, a1^5\, a2^3\, b1\, b2\, c2^6 - 6588\, a1^5\, a2^3\, b1\, c1^6\, c2$$
$$- 569376\, a1^5\, a2^3\, b1\, c1^4\, c2^3 + 2962788\, a1^5\, a2^3\, b1\, c1^2\, c2^5 - 267192\, a1^5\, a2^3\, b1\, c2^7$$
$$- 267192\, a1^5\, a2^3\, b2^7\, c1 + 1431000\, a1^5\, a2^3\, b2^6\, c1\, c2 - 1576972\, a1^5\, a2^3\, b2^5\, c1^3$$
$$- 2735208\, a1^5\, a2^3\, b2^5\, c1\, c2^2 + 3125084\, a1^5\, a2^3\, b2^4\, c1^3\, c2$$
$$+ 2554200\, a1^5\, a2^3\, b2^4\, c1\, c2^3 - 1870992\, a1^5\, a2^3\, b2^3\, c1^5 + 3643064\, a1^5\, a2^3\, b2^3\, c1^3\, c2^2$$
$$- 1724760\, a1^5\, a2^3\, b2^3\, c1\, c2^4 + 4408992\, a1^5\, a2^3\, b2^2\, c1^5\, c2$$
$$- 11110616\, a1^5\, a2^3\, b2^2\, c1^3\, c2^3 + 1347192\, a1^5\, a2^3\, b2^2\, c1\, c2^5 + 16092\, a1^5\, a2^3\, b2\, c1^7$$
$$- 2965248\, a1^5\, a2^3\, b2\, c1^5\, c2^2 + 7288924\, a1^5\, a2^3\, b2\, c1^3\, c2^4 - 776520\, a1^5\, a2^3\, b2\, c1\, c2^6$$
$$- 8316\, a1^5\, a2^3\, c1^7\, c2 + 602208\, a1^5\, a2^3\, c1^5\, c2^3 - 1369484\, a1^5\, a2^3\, c1^3\, c2^5$$
$$+ 171288\, a1^5\, a2^3\, c1\, c2^7 + 432\, a1^5\, a2^2\, b1^9 - 18144\, a1^5\, a2^2\, b1^7\, b2^2$$
$$+ 61236\, a1^5\, a2^2\, b1^7\, b2\, c2 - 6480\, a1^5\, a2^2\, b1^7\, c1^2 - 54756\, a1^5\, a2^2\, b1^7\, c2^2$$
$$+ 40500\, a1^5\, a2^2\, b1^6\, b2^2\, c1 - 61236\, a1^5\, a2^2\, b1^6\, b2\, c1\, c2 + 15120\, a1^5\, a2^2\, b1^6\, c1^3$$
$$- 43416\, a1^5\, a2^2\, b1^6\, c1\, c2^2 + 289656\, a1^5\, a2^2\, b1^5\, b2^4 - 2965248\, a1^5\, a2^2\, b1^5\, b2^3\, c2$$
$$- 243000\, a1^5\, a2^2\, b1^5\, b2^2\, c1^2 + 8895744\, a1^5\, a2^2\, b1^5\, b2^2\, c2^2$$
$$+ 918540\, a1^5\, a2^2\, b1^5\, b2\, c1^2\, c2 - 10339488\, a1^5\, a2^2\, b1^5\, b2\, c2^3 - 9072\, a1^5\, a2^2\, b1^5\, c1^4$$
$$- 413100\, a1^5\, a2^2\, b1^5\, c1^2\, c2^2 + 3988116\, a1^5\, a2^2\, b1^5\, c2^4 + 1219212\, a1^5\, a2^2\, b1^4\, b2^4\, c1$$

$$- 3168720\, a1^5\, a2^2\, b1^4\, b2^3\, c1\, c2 - 227124\, a1^5\, a2^2\, b1^4\, b2^2\, c1^3$$
$$- 2220048\, a1^5\, a2^2\, b1^4\, b2^2\, c1\, c2^2 - 918540\, a1^5\, a2^2\, b1^4\, b2\, c1^3\, c2$$
$$+ 12419568\, a1^5\, a2^2\, b1^4\, b2\, c1\, c2^3 - 9072\, a1^5\, a2^2\, b1^4\, c1^5 + 959040\, a1^5\, a2^2\, b1^4\, c1^3\, c2^2$$
$$- 7856352\, a1^5\, a2^2\, b1^4\, c1\, c2^4 + 190944\, a1^5\, a2^2\, b1^3\, b2^6 + 2962788\, a1^5\, a2^2\, b1^3\, b2^5\, c2$$
$$- 1350432\, a1^5\, a2^2\, b1^3\, b2^4\, c1^2 - 18340356\, a1^5\, a2^2\, b1^3\, b2^4\, c2^2$$
$$+ 4034448\, a1^5\, a2^2\, b1^3\, b2^3\, c1^2\, c2 + 35564424\, a1^5\, a2^2\, b1^3\, b2^3\, c2^3$$
$$+ 959040\, a1^5\, a2^2\, b1^3\, b2^2\, c1^4 - 8880192\, a1^5\, a2^2\, b1^3\, b2^2\, c1^2\, c2^2$$
$$- 29405616\, a1^5\, a2^2\, b1^3\, b2^2\, c2^4 - 918540\, a1^5\, a2^2\, b1^3\, b2\, c1^4\, c2$$
$$+ 2958768\, a1^5\, a2^2\, b1^3\, b2\, c1^2\, c2^3 + 9887196\, a1^5\, a2^2\, b1^3\, b2\, c2^5 + 15120\, a1^5\, a2^2\, b1^3\, c1^6$$
$$- 227124\, a1^5\, a2^2\, b1^3\, c1^4\, c2^2 + 2974968\, a1^5\, a2^2\, b1^3\, c1^2\, c2^4 - 859380\, a1^5\, a2^2\, b1^3\, c2^6$$
$$- 4101972\, a1^5\, a2^2\, b1^2\, b2^6\, c1 + 15723468\, a1^5\, a2^2\, b1^2\, b2^5\, c1\, c2$$
$$+ 2974968\, a1^5\, a2^2\, b1^2\, b2^4\, c1^3 - 3847176\, a1^5\, a2^2\, b1^2\, b2^4\, c1\, c2^2$$
$$+ 2958768\, a1^5\, a2^2\, b1^2\, b2^3\, c1^3\, c2 - 47805576\, a1^5\, a2^2\, b1^2\, b2^3\, c1\, c2^3$$
$$- 413100\, a1^5\, a2^2\, b1^2\, b2^2\, c1^5 - 8880192\, a1^5\, a2^2\, b1^2\, b2^2\, c1^3\, c2^2$$
$$+ 69220044\, a1^5\, a2^2\, b1^2\, b2^2\, c1\, c2^4 + 918540\, a1^5\, a2^2\, b1^2\, b2\, c1^5\, c2$$
$$+ 4034448\, a1^5\, a2^2\, b1^2\, b2\, c1^3\, c2^3 - 34742412\, a1^5\, a2^2\, b1^2\, b2\, c1\, c2^5$$
$$- 6480\, a1^5\, a2^2\, b1^2\, c1^7 - 243000\, a1^5\, a2^2\, b1^2\, c1^5\, c2^2 - 1350432\, a1^5\, a2^2\, b1^2\, c1^3\, c2^4$$
$$+ 5553624\, a1^5\, a2^2\, b1^2\, c1\, c2^6 - 117288\, a1^5\, a2^2\, b1\, b2^8 + 424440\, a1^5\, a2^2\, b1\, b2^7\, c2$$
$$+ 5553624\, a1^5\, a2^2\, b1\, b2^6\, c1^2 - 320760\, a1^5\, a2^2\, b1\, b2^6\, c2^2$$
$$- 34742412\, a1^5\, a2^2\, b1\, b2^5\, c1^2\, c2 - 705672\, a1^5\, a2^2\, b1\, b2^5\, c2^3$$
$$- 7856352\, a1^5\, a2^2\, b1\, b2^4\, c1^4 + 69220044\, a1^5\, a2^2\, b1\, b2^4\, c1^2\, c2^2$$
$$+ 2175660\, a1^5\, a2^2\, b1\, b2^4\, c2^4 + 12419568\, a1^5\, a2^2\, b1\, b2^3\, c1^4\, c2$$
$$- 47805576\, a1^5\, a2^2\, b1\, b2^3\, c1^2\, c2^3 - 3273048\, a1^5\, a2^2\, b1\, b2^3\, c2^5$$
$$- 43416\, a1^5\, a2^2\, b1\, b2^2\, c1^6 - 2220048\, a1^5\, a2^2\, b1\, b2^2\, c1^4\, c2^2$$
$$- 3847176\, a1^5\, a2^2\, b1\, b2^2\, c1^2\, c2^4 + 3004128\, a1^5\, a2^2\, b1\, b2^2\, c2^6$$
$$- 61236\, a1^5\, a2^2\, b1\, b2\, c1^6\, c2 - 3168720\, a1^5\, a2^2\, b1\, b2\, c1^4\, c2^3$$
$$+ 15723468\, a1^5\, a2^2\, b1\, b2\, c1^2\, c2^5 - 1471608\, a1^5\, a2^2\, b1\, b2\, c2^7$$
$$+ 40500\, a1^5\, a2^2\, b1\, c1^6\, c2^2 + 1219212\, a1^5\, a2^2\, b1\, c1^4\, c2^4 - 4101972\, a1^5\, a2^2\, b1\, c1^2\, c2^6$$
$$+ 284148\, a1^5\, a2^2\, b1\, c2^8 + 284148\, a1^5\, a2^2\, b2^8\, c1 - 1471608\, a1^5\, a2^2\, b2^7\, c1\, c2$$
$$- 859380\, a1^5\, a2^2\, b2^6\, c1^3 + 3004128\, a1^5\, a2^2\, b2^6\, c1\, c2^2 + 9887196\, a1^5\, a2^2\, b2^5\, c1^3\, c2$$
$$- 3273048\, a1^5\, a2^2\, b2^5\, c1\, c2^3 + 3988116\, a1^5\, a2^2\, b2^4\, c1^5 - 29405616\, a1^5\, a2^2\, b2^4\, c1^3\, c2^2$$
$$+ 2175660\, a1^5\, a2^2\, b2^4\, c1\, c2^4 - 10339488\, a1^5\, a2^2\, b2^3\, c1^5\, c2$$
$$+ 35564424\, a1^5\, a2^2\, b2^3\, c1^3\, c2^3 - 705672\, a1^5\, a2^2\, b2^3\, c1\, c2^5 - 54756\, a1^5\, a2^2\, b2^2\, c1^7$$
$$+ 8895744\, a1^5\, a2^2\, b2^2\, c1^5\, c2^2 - 18340356\, a1^5\, a2^2\, b2^2\, c1^3\, c2^4$$

$$- 320760\, a1^5\, a2^2\, b2^2\, c1\, c2^6 + 61236\, a1^5\, a2^2\, b2\, c1^7\, c2 - 2965248\, a1^5\, a2^2\, b2\, c1^5\, c2^3$$
$$+ 2962788\, a1^5\, a2^2\, b2\, c1^3\, c2^5 + 424440\, a1^5\, a2^2\, b2\, c1\, c2^7 + 432\, a1^5\, a2^2\, c1^9$$
$$- 18144\, a1^5\, a2^2\, c1^7\, c2^2 + 289656\, a1^5\, a2^2\, c1^5\, c2^4 + 190944\, a1^5\, a2^2\, c1^3\, c2^6$$
$$- 117288\, a1^5\, a2^2\, c1\, c2^8 + 216\, a1^5\, a2\, b1^9\, b2 - 1080\, a1^5\, a2\, b1^9\, c2$$
$$+ 3240\, a1^5\, a2\, b1^8\, b2\, c1 - 3240\, a1^5\, a2\, b1^8\, c1\, c2 - 17064\, a1^5\, a2\, b1^7\, b2^3$$
$$+ 87480\, a1^5\, a2\, b1^7\, b2^2\, c2 - 6480\, a1^5\, a2\, b1^7\, b2\, c1^2 - 148716\, a1^5\, a2\, b1^7\, b2\, c2^2$$
$$+ 19440\, a1^5\, a2\, b1^7\, c1^2\, c2 + 86076\, a1^5\, a2\, b1^7\, c2^3 + 54648\, a1^5\, a2\, b1^6\, b2^3\, c1$$
$$- 244944\, a1^5\, a2\, b1^6\, b2^2\, c1\, c2 - 15120\, a1^5\, a2\, b1^6\, b2\, c1^3 + 306180\, a1^5\, a2\, b1^6\, b2\, c1\, c2^2$$
$$- 15120\, a1^5\, a2\, b1^6\, c1^3\, c2 - 73116\, a1^5\, a2\, b1^6\, c1\, c2^3 + 28512\, a1^5\, a2\, b1^5\, b2^5$$
$$- 721872\, a1^5\, a2\, b1^5\, b2^4\, c2 - 144180\, a1^5\, a2\, b1^5\, b2^3\, c1^2 + 4408992\, a1^5\, a2\, b1^5\, b2^3\, c2^2$$
$$+ 918540\, a1^5\, a2\, b1^5\, b2^2\, c1^2\, c2 - 10339488\, a1^5\, a2\, b1^5\, b2^2\, c2^3$$
$$+ 45360\, a1^5\, a2\, b1^5\, b2\, c1^4 - 1837080\, a1^5\, a2\, b1^5\, b2\, c1^2\, c2^2$$
$$+ 10339488\, a1^5\, a2\, b1^5\, b2\, c2^4 - 27216\, a1^5\, a2\, b1^5\, c1^4\, c2 + 887760\, a1^5\, a2\, b1^5\, c1^2\, c2^3$$
$$- 3663144\, a1^5\, a2\, b1^5\, c2^5 + 491184\, a1^5\, a2\, b1^4\, b2^5\, c1 - 4894344\, a1^5\, a2\, b1^4\, b2^4\, c1\, c2$$
$$- 154764\, a1^5\, a2\, b1^4\, b2^3\, c1^3 + 12957408\, a1^5\, a2\, b1^4\, b2^3\, c1\, c2^2$$
$$+ 918540\, a1^5\, a2\, b1^4\, b2^2\, c1^3\, c2 - 11477376\, a1^5\, a2\, b1^4\, b2^2\, c1\, c2^3$$
$$- 27216\, a1^5\, a2\, b1^4\, b2\, c1^5 - 471096\, a1^5\, a2\, b1^4\, b2\, c1\, c2^4 + 45360\, a1^5\, a2\, b1^4\, c1^5\, c2$$
$$- 639360\, a1^5\, a2\, b1^4\, c1^3\, c2^3 + 3236760\, a1^5\, a2\, b1^4\, c1\, c2^5 + 109080\, a1^5\, a2\, b1^3\, b2^7$$
$$- 1145448\, a1^5\, a2\, b1^3\, b2^6\, c2 + 1347192\, a1^5\, a2\, b1^3\, b2^5\, c1^2 + 473556\, a1^5\, a2\, b1^3\, b2^5\, c2^2$$
$$- 4035096\, a1^5\, a2\, b1^3\, b2^4\, c1^2\, c2 + 11437644\, a1^5\, a2\, b1^3\, b2^4\, c2^3$$
$$- 639360\, a1^5\, a2\, b1^3\, b2^3\, c1^4 + 4035744\, a1^5\, a2\, b1^3\, b2^3\, c1^2\, c2^2$$
$$- 29219856\, a1^5\, a2\, b1^3\, b2^3\, c2^4 + 1884384\, a1^5\, a2\, b1^3\, b2^2\, c1^2\, c2^3$$
$$+ 29294160\, a1^5\, a2\, b1^3\, b2^2\, c2^5 - 15120\, a1^5\, a2\, b1^3\, b2\, c1^6$$
$$+ 918540\, a1^5\, a2\, b1^3\, b2\, c1^4\, c2^2 - 2421576\, a1^5\, a2\, b1^3\, b2\, c1^2\, c2^4$$
$$- 13060452\, a1^5\, a2\, b1^3\, b2\, c2^6 - 15120\, a1^5\, a2\, b1^3\, c1^6\, c2 - 154764\, a1^5\, a2\, b1^3\, c1^4\, c2^3$$
$$- 705672\, a1^5\, a2\, b1^3\, c1^2\, c2^5 + 2111316\, a1^5\, a2\, b1^3\, c2^7 + 266328\, a1^5\, a2\, b1^2\, b2^7\, c1$$
$$+ 6339648\, a1^5\, a2\, b1^2\, b2^6\, c1\, c2 - 705672\, a1^5\, a2\, b1^2\, b2^5\, c1^3$$
$$- 34742412\, a1^5\, a2\, b1^2\, b2^5\, c1\, c2^2 - 2421576\, a1^5\, a2\, b1^2\, b2^4\, c1^3\, c2$$
$$+ 60468804\, a1^5\, a2\, b1^2\, b2^4\, c1\, c2^3 + 887760\, a1^5\, a2\, b1^2\, b2^3\, c1^5$$
$$+ 1884384\, a1^5\, a2\, b1^2\, b2^3\, c1^3\, c2^2 - 36566016\, a1^5\, a2\, b1^2\, b2^3\, c1\, c2^4$$
$$- 1837080\, a1^5\, a2\, b1^2\, b2^2\, c1^5\, c2 + 4035744\, a1^5\, a2\, b1^2\, b2^2\, c1^3\, c2^3$$
$$- 5748408\, a1^5\, a2\, b1^2\, b2^2\, c1\, c2^5 + 19440\, a1^5\, a2\, b1^2\, b2\, c1^7$$
$$+ 918540\, a1^5\, a2\, b1^2\, b2\, c1^5\, c2^2 - 4035096\, a1^5\, a2\, b1^2\, b2\, c1^3\, c2^4$$
$$+ 13496940\, a1^5\, a2\, b1^2\, b2\, c1\, c2^6 - 6480\, a1^5\, a2\, b1^2\, c1^7\, c2 - 144180\, a1^5\, a2\, b1^2\, c1^5\, c2^3$$

$$+ 1347192\, a1^5\, a2\, b1^2\, c1^3\, c2^5 - 3514884\, a1^5\, a2\, b1^2\, c1\, c2^7 + 63288\, a1^5\, a2\, b1\, b2^9$$
$$- 335016\, a1^5\, a2\, b1\, b2^8\, c2 - 3514884\, a1^5\, a2\, b1\, b2^7\, c1^2 + 915624\, a1^5\, a2\, b1\, b2^7\, c2^2$$
$$+ 13496940\, a1^5\, a2\, b1\, b2^6\, c1^2\, c2 - 1922616\, a1^5\, a2\, b1\, b2^6\, c2^3$$
$$+ 3236760\, a1^5\, a2\, b1\, b2^5\, c1^4 - 5748408\, a1^5\, a2\, b1\, b2^5\, c1^2\, c2^2$$
$$+ 3236760\, a1^5\, a2\, b1\, b2^5\, c2^4 - 471096\, a1^5\, a2\, b1\, b2^4\, c1^4\, c2$$
$$- 36566016\, a1^5\, a2\, b1\, b2^4\, c1^2\, c2^3 - 4107024\, a1^5\, a2\, b1\, b2^4\, c2^5$$
$$- 73116\, a1^5\, a2\, b1\, b2^3\, c1^6 - 11477376\, a1^5\, a2\, b1\, b2^3\, c1^4\, c2^2$$
$$+ 60468804\, a1^5\, a2\, b1\, b2^3\, c1^2\, c2^4 + 3829032\, a1^5\, a2\, b1\, b2^3\, c2^6$$
$$+ 306180\, a1^5\, a2\, b1\, b2^2\, c1^6\, c2 + 12957408\, a1^5\, a2\, b1\, b2^2\, c1^4\, c2^3$$
$$- 34742412\, a1^5\, a2\, b1\, b2^2\, c1^2\, c2^5 - 2499336\, a1^5\, a2\, b1\, b2^2\, c2^7 - 3240\, a1^5\, a2\, b1\, b2\, c1^8$$
$$- 244944\, a1^5\, a2\, b1\, b2\, c1^6\, c2^2 - 4894344\, a1^5\, a2\, b1\, b2\, c1^4\, c2^4$$
$$+ 6339648\, a1^5\, a2\, b1\, b2\, c1^2\, c2^6 + 992736\, a1^5\, a2\, b1\, b2\, c2^8 + 3240\, a1^5\, a2\, b1\, c1^8\, c2$$
$$+ 54648\, a1^5\, a2\, b1\, c1^6\, c2^3 + 491184\, a1^5\, a2\, b1\, c1^4\, c2^5 + 266328\, a1^5\, a2\, b1\, c1^2\, c2^7$$
$$- 173448\, a1^5\, a2\, b1\, c2^9 - 173448\, a1^5\, a2\, b2^9\, c1 + 992736\, a1^5\, a2\, b2^8\, c1\, c2$$
$$+ 2111316\, a1^5\, a2\, b2^7\, c1^3 - 2499336\, a1^5\, a2\, b2^7\, c1\, c2^2 - 13060452\, a1^5\, a2\, b2^6\, c1^3\, c2$$
$$+ 3829032\, a1^5\, a2\, b2^6\, c1\, c2^3 - 3663144\, a1^5\, a2\, b2^5\, c1^5 + 29294160\, a1^5\, a2\, b2^5\, c1^3\, c2^2$$
$$- 4107024\, a1^5\, a2\, b2^5\, c1\, c2^4 + 10339488\, a1^5\, a2\, b2^4\, c1^5\, c2$$
$$- 29219856\, a1^5\, a2\, b2^4\, c1^3\, c2^3 + 3236760\, a1^5\, a2\, b2^4\, c1\, c2^5 + 86076\, a1^5\, a2\, b2^3\, c1^7$$
$$- 10339488\, a1^5\, a2\, b2^3\, c1^5\, c2^2 + 11437644\, a1^5\, a2\, b2^3\, c1^3\, c2^4$$
$$- 1922616\, a1^5\, a2\, b2^3\, c1\, c2^6 - 148716\, a1^5\, a2\, b2^2\, c1^7\, c2 + 4408992\, a1^5\, a2\, b2^2\, c1^5\, c2^3$$
$$+ 473556\, a1^5\, a2\, b2^2\, c1^3\, c2^5 + 915624\, a1^5\, a2\, b2^2\, c1\, c2^7 - 1080\, a1^5\, a2\, b2\, c1^9$$
$$+ 87480\, a1^5\, a2\, b2\, c1^7\, c2^2 - 721872\, a1^5\, a2\, b2\, c1^5\, c2^4 - 1145448\, a1^5\, a2\, b2\, c1^3\, c2^6$$
$$- 335016\, a1^5\, a2\, b2\, c1\, c2^8 + 216\, a1^5\, a2\, c1^9\, c2 - 17064\, a1^5\, a2\, c1^7\, c2^3$$
$$+ 28512\, a1^5\, a2\, c1^5\, c2^5 + 109080\, a1^5\, a2\, c1^3\, c2^7 + 63288\, a1^5\, a2\, c1\, c2^9$$
$$- 216\, a1^5\, b1^9\, b2\, c2 + 648\, a1^5\, b1^9\, c2^2 + 648\, a1^5\, b1^8\, b2^2\, c1 - 4536\, a1^5\, b1^8\, b2\, c1\, c2$$
$$+ 3888\, a1^5\, b1^8\, c1\, c2^2 - 2916\, a1^5\, b1^7\, b2^4 + 28728\, a1^5\, b1^7\, b2^3\, c2$$
$$+ 3888\, a1^5\, b1^7\, b2^2\, c1^2 - 86832\, a1^5\, b1^7\, b2^2\, c2^2 - 1296\, a1^5\, b1^7\, b2\, c1^2\, c2$$
$$+ 107460\, a1^5\, b1^7\, b2\, c2^3 - 9072\, a1^5\, b1^7\, c1^2\, c2^2 - 48384\, a1^5\, b1^7\, c2^4$$
$$- 3888\, a1^5\, b1^6\, b2^4\, c1 - 39096\, a1^5\, b1^6\, b2^3\, c1\, c2 - 9072\, a1^5\, b1^6\, b2^2\, c1^3$$
$$+ 181116\, a1^5\, b1^6\, b2^2\, c1\, c2^2 + 33264\, a1^5\, b1^6\, b2\, c1^3\, c2 - 222804\, a1^5\, b1^6\, b2\, c1\, c2^3$$
$$- 9072\, a1^5\, b1^6\, c1^3\, c2^2 + 73980\, a1^5\, b1^6\, c1\, c2^4 - 8748\, a1^5\, b1^5\, b2^6$$
$$+ 23976\, a1^5\, b1^5\, b2^5\, c2 + 43740\, a1^5\, b1^5\, b2^4\, c1^2 + 300996\, a1^5\, b1^5\, b2^4\, c2^2$$
$$- 30780\, a1^5\, b1^5\, b2^3\, c1^2\, c2 - 1870992\, a1^5\, b1^5\, b2^3\, c2^3 - 9072\, a1^5\, b1^5\, b2^2\, c1^4$$
$$- 413100\, a1^5\, b1^5\, b2^2\, c1^2\, c2^2 + 3988116\, a1^5\, b1^5\, b2^2\, c2^4 - 27216\, a1^5\, b1^5\, b2\, c1^4\, c2$$

$$+ 887760\, a1^5\, b1^5\, b2\, c1^2\, c2^3 - 3663144\, a1^5\, b1^5\, b2\, c2^5 + 27216\, a1^5\, b1^5\, c1^4\, c2^2$$
$$- 443880\, a1^5\, b1^5\, c1^2\, c2^4 + 1221048\, a1^5\, b1^5\, c2^6 + 47952\, a1^5\, b1^4\, b2^6\, c1$$
$$- 778896\, a1^5\, b1^4\, b2^5\, c1\, c2 - 120312\, a1^5\, b1^4\, b2^4\, c1^3 + 4394412\, a1^5\, b1^4\, b2^4\, c1\, c2^2$$
$$+ 636012\, a1^5\, b1^4\, b2^3\, c1^3\, c2 - 10178352\, a1^5\, b1^4\, b2^3\, c1\, c2^3 + 27216\, a1^5\, b1^4\, b2^2\, c1^5$$
$$- 1413288\, a1^5\, b1^4\, b2^2\, c1^3\, c2^2 + 10503108\, a1^5\, b1^4\, b2^2\, c1\, c2^4 - 27216\, a1^5\, b1^4\, b2\, c1^5\, c2$$
$$+ 942192\, a1^5\, b1^4\, b2\, c1^3\, c2^3 - 4107024\, a1^5\, b1^4\, b2\, c1\, c2^5 - 9072\, a1^5\, b1^4\, c1^5\, c2^2$$
$$- 75708\, a1^5\, b1^4\, c1^3\, c2^4 + 145044\, a1^5\, b1^4\, c1\, c2^6 - 8748\, a1^5\, b1^3\, b2^8$$
$$- 39096\, a1^5\, b1^3\, b2^7\, c2 + 231336\, a1^5\, b1^3\, b2^6\, c1^2 + 709560\, a1^5\, b1^3\, b2^6\, c2^2$$
$$- 2735208\, a1^5\, b1^3\, b2^5\, c1^2\, c2 - 1576972\, a1^5\, b1^3\, b2^5\, c2^3 - 75708\, a1^5\, b1^3\, b2^4\, c1^4$$
$$+ 8855568\, a1^5\, b1^3\, b2^4\, c1^2\, c2^2 - 888196\, a1^5\, b1^3\, b2^4\, c2^4 + 942192\, a1^5\, b1^3\, b2^3\, c1^4\, c2$$
$$- 13152672\, a1^5\, b1^3\, b2^3\, c1^2\, c2^3 + 6554528\, a1^5\, b1^3\, b2^3\, c2^5 - 9072\, a1^5\, b1^3\, b2^2\, c1^6$$
$$- 1413288\, a1^5\, b1^3\, b2^2\, c1^4\, c2^2 + 9393408\, a1^5\, b1^3\, b2^2\, c1^2\, c2^4 - 8159624\, a1^5\, b1^3\, b2^2\, c2^6$$
$$+ 33264\, a1^5\, b1^3\, b2\, c1^6\, c2 + 636012\, a1^5\, b1^3\, b2\, c1^4\, c2^3 - 3273048\, a1^5\, b1^3\, b2\, c1^2\, c2^5$$
$$+ 4197100\, a1^5\, b1^3\, b2\, c2^7 - 9072\, a1^5\, b1^3\, c1^6\, c2^2 - 120312\, a1^5\, b1^3\, c1^4\, c2^4$$
$$+ 663120\, a1^5\, b1^3\, c1^2\, c2^6 - 788552\, a1^5\, b1^3\, c2^8 + 110160\, a1^5\, b1^2\, b2^8\, c1$$
$$- 1147608\, a1^5\, b1^2\, b2^7\, c1\, c2 + 663120\, a1^5\, b1^2\, b2^6\, c1^3 + 846804\, a1^5\, b1^2\, b2^6\, c1\, c2^2$$
$$- 3273048\, a1^5\, b1^2\, b2^5\, c1^3\, c2 + 9887196\, a1^5\, b1^2\, b2^5\, c1\, c2^3 - 443880\, a1^5\, b1^2\, b2^4\, c1^5$$
$$+ 9393408\, a1^5\, b1^2\, b2^4\, c1^3\, c2^2 - 27476196\, a1^5\, b1^2\, b2^4\, c1\, c2^4$$
$$+ 887760\, a1^5\, b1^2\, b2^3\, c1^5\, c2 - 13152672\, a1^5\, b1^2\, b2^3\, c1^3\, c2^3$$
$$+ 29294160\, a1^5\, b1^2\, b2^3\, c1\, c2^5 - 9072\, a1^5\, b1^2\, b2^2\, c1^7 - 413100\, a1^5\, b1^2\, b2^2\, c1^5\, c2^2$$
$$+ 8855568\, a1^5\, b1^2\, b2^2\, c1^3\, c2^4 - 13689012\, a1^5\, b1^2\, b2^2\, c1\, c2^6 - 1296\, a1^5\, b1^2\, b2\, c1^7\, c2$$
$$- 30780\, a1^5\, b1^2\, b2\, c1^5\, c2^3 - 2735208\, a1^5\, b1^2\, b2\, c1^3\, c2^5 + 1983012\, a1^5\, b1^2\, b2\, c1\, c2^7$$
$$+ 3888\, a1^5\, b1^2\, c1^7\, c2^2 + 43740\, a1^5\, b1^2\, c1^5\, c2^4 + 231336\, a1^5\, b1^2\, c1^3\, c2^6$$
$$+ 191484\, a1^5\, b1^2\, c1\, c2^8 - 2916\, a1^5\, b1\, b2^{10} - 34128\, a1^5\, b1\, b2^9\, c2$$
$$+ 191484\, a1^5\, b1\, b2^8\, c1^2 + 321084\, a1^5\, b1\, b2^8\, c2^2 + 1983012\, a1^5\, b1\, b2^7\, c1^2\, c2$$
$$- 1161432\, a1^5\, b1\, b2^7\, c2^3 + 145044\, a1^5\, b1\, b2^6\, c1^4 - 13689012\, a1^5\, b1\, b2^6\, c1^2\, c2^2$$
$$+ 2513160\, a1^5\, b1\, b2^6\, c2^4 - 4107024\, a1^5\, b1\, b2^5\, c1^4\, c2 + 29294160\, a1^5\, b1\, b2^5\, c1^2\, c2^3$$
$$- 3663144\, a1^5\, b1\, b2^5\, c2^5 + 73980\, a1^5\, b1\, b2^4\, c1^6 + 10503108\, a1^5\, b1\, b2^4\, c1^4\, c2^2$$
$$- 27476196\, a1^5\, b1\, b2^4\, c1^2\, c2^4 + 3737124\, a1^5\, b1\, b2^4\, c2^6 - 222804\, a1^5\, b1\, b2^3\, c1^6\, c2$$
$$- 10178352\, a1^5\, b1\, b2^3\, c1^4\, c2^3 + 9887196\, a1^5\, b1\, b2^3\, c1^2\, c2^5 - 2682504\, a1^5\, b1\, b2^3\, c2^7$$
$$+ 3888\, a1^5\, b1\, b2^2\, c1^8 + 181116\, a1^5\, b1\, b2^2\, c1^6\, c2^2 + 4394412\, a1^5\, b1\, b2^2\, c1^4\, c2^4$$
$$+ 846804\, a1^5\, b1\, b2^2\, c1^2\, c2^6 + 1318356\, a1^5\, b1\, b2^2\, c2^8 - 4536\, a1^5\, b1\, b2\, c1^8\, c2$$
$$- 39096\, a1^5\, b1\, b2\, c1^6\, c2^3 - 778896\, a1^5\, b1\, b2\, c1^4\, c2^5 - 1147608\, a1^5\, b1\, b2\, c1^2\, c2^7$$
$$- 403272\, a1^5\, b1\, b2\, c2^9 + 648\, a1^5\, b1\, c1^8\, c2^2 - 3888\, a1^5\, b1\, c1^6\, c2^4$$

$$+ 47952\, a1^5\, b1\, c1^4\, c2^6 + 110160\, a1^5\, b1\, c1^2\, c2^8 + 57672\, a1^5\, b1\, c2^{10}$$
$$+ 57672\, a1^5\, b2^{10}\, c1 - 403272\, a1^5\, b2^9\, c1\, c2 - 788552\, a1^5\, b2^8\, c1^3$$
$$+ 1318356\, a1^5\, b2^8\, c1\, c2^2 + 4197100\, a1^5\, b2^7\, c1^3\, c2 - 2682504\, a1^5\, b2^7\, c1\, c2^3$$
$$+ 1221048\, a1^5\, b2^6\, c1^5 - 8159624\, a1^5\, b2^6\, c1^3\, c2^2 + 3737124\, a1^5\, b2^6\, c1\, c2^4$$
$$- 3663144\, a1^5\, b2^5\, c1^5\, c2 + 6554528\, a1^5\, b2^5\, c1^3\, c2^3 - 3663144\, a1^5\, b2^5\, c1\, c2^5$$
$$- 48384\, a1^5\, b2^4\, c1^7 + 3988116\, a1^5\, b2^4\, c1^5\, c2^2 - 888196\, a1^5\, b2^4\, c1^3\, c2^4$$
$$+ 2513160\, a1^5\, b2^4\, c1\, c2^6 + 107460\, a1^5\, b2^3\, c1^7\, c2 - 1870992\, a1^5\, b2^3\, c1^5\, c2^3$$
$$- 1576972\, a1^5\, b2^3\, c1^3\, c2^5 - 1161432\, a1^5\, b2^3\, c1\, c2^7 + 648\, a1^5\, b2^2\, c1^9$$
$$- 86832\, a1^5\, b2^2\, c1^7\, c2^2 + 300996\, a1^5\, b2^2\, c1^5\, c2^4 + 709560\, a1^5\, b2^2\, c1^3\, c2^6$$
$$+ 321084\, a1^5\, b2^2\, c1\, c2^8 - 216\, a1^5\, b2\, c1^9\, c2 + 28728\, a1^5\, b2\, c1^7\, c2^3$$
$$+ 23976\, a1^5\, b2\, c1^5\, c2^5 - 39096\, a1^5\, b2\, c1^3\, c2^7 - 34128\, a1^5\, b2\, c1\, c2^9$$
$$- 2916\, a1^5\, c1^7\, c2^4 - 8748\, a1^5\, c1^5\, c2^6 - 8748\, a1^5\, c1^3\, c2^8 - 2916\, a1^5\, c1\, c2^{10}$$
$$+ 4374\, a1^4\, a2^8\, b1^4 - 17496\, a1^4\, a2^8\, b1^3\, c1 + 17496\, a1^4\, a2^8\, b1^2\, b2^2$$
$$- 34992\, a1^4\, a2^8\, b1^2\, b2\, c2 + 26244\, a1^4\, a2^8\, b1^2\, c1^2 + 17496\, a1^4\, a2^8\, b1^2\, c2^2$$
$$- 34992\, a1^4\, a2^8\, b1\, b2^2\, c1 + 69984\, a1^4\, a2^8\, b1\, b2\, c1\, c2 - 17496\, a1^4\, a2^8\, b1\, c1^3$$
$$- 34992\, a1^4\, a2^8\, b1\, c1\, c2^2 + 729\, a1^4\, a2^8\, b2^4 - 2916\, a1^4\, a2^8\, b2^3\, c2$$
$$+ 17496\, a1^4\, a2^8\, b2^2\, c1^2 + 4374\, a1^4\, a2^8\, b2^2\, c2^2 - 34992\, a1^4\, a2^8\, b2\, c1^2\, c2$$
$$- 2916\, a1^4\, a2^8\, b2\, c2^3 + 4374\, a1^4\, a2^8\, c1^4 + 17496\, a1^4\, a2^8\, c1^2\, c2^2 + 729\, a1^4\, a2^8\, c2^4$$
$$+ 26244\, a1^4\, a2^7\, b1^4\, b2 - 61236\, a1^4\, a2^7\, b1^4\, c2 - 17496\, a1^4\, a2^7\, b1^3\, b2\, c1$$
$$+ 157464\, a1^4\, a2^7\, b1^3\, c1\, c2 - 40824\, a1^4\, a2^7\, b1^2\, b2^3 - 17496\, a1^4\, a2^7\, b1^2\, b2^2\, c2$$
$$- 104976\, a1^4\, a2^7\, b1^2\, b2\, c1^2 + 157464\, a1^4\, a2^7\, b1^2\, b2\, c2^2 - 104976\, a1^4\, a2^7\, b1^2\, c1^2\, c2$$
$$- 99144\, a1^4\, a2^7\, b1^2\, c2^3 + 139968\, a1^4\, a2^7\, b1\, b2^3\, c1 - 139968\, a1^4\, a2^7\, b1\, b2^2\, c1\, c2$$
$$+ 157464\, a1^4\, a2^7\, b1\, b2\, c1^3 - 139968\, a1^4\, a2^7\, b1\, b2\, c1\, c2^2 - 17496\, a1^4\, a2^7\, b1\, c1^3\, c2$$
$$+ 139968\, a1^4\, a2^7\, b1\, c1\, c2^3 - 2916\, a1^4\, a2^7\, b2^5 + 8748\, a1^4\, a2^7\, b2^4\, c2$$
$$- 99144\, a1^4\, a2^7\, b2^3\, c1^2 - 5832\, a1^4\, a2^7\, b2^3\, c2^2 + 157464\, a1^4\, a2^7\, b2^2\, c1^2\, c2$$
$$- 5832\, a1^4\, a2^7\, b2^2\, c2^3 - 61236\, a1^4\, a2^7\, b2\, c1^4 - 17496\, a1^4\, a2^7\, b2\, c1^2\, c2^2$$
$$+ 8748\, a1^4\, a2^7\, b2\, c2^4 + 26244\, a1^4\, a2^7\, c1^4\, c2 - 40824\, a1^4\, a2^7\, c1^2\, c2^3$$
$$- 2916\, a1^4\, a2^7\, c2^5 - 702\, a1^4\, a2^6\, b1^6 + 47952\, a1^4\, a2^6\, b1^5\, c1 - 312606\, a1^4\, a2^6\, b1^4\, b2^2$$
$$+ 441504\, a1^4\, a2^6\, b1^4\, b2\, c2 - 185490\, a1^4\, a2^6\, b1^4\, c1^2 - 6426\, a1^4\, a2^6\, b1^4\, c2^2$$
$$+ 1337904\, a1^4\, a2^6\, b1^3\, b2^2\, c1 - 2553336\, a1^4\, a2^6\, b1^3\, b2\, c1\, c2 + 276480\, a1^4\, a2^6\, b1^3\, c1^3$$
$$+ 725544\, a1^4\, a2^6\, b1^3\, c1\, c2^2 - 118854\, a1^4\, a2^6\, b1^2\, b2^4 + 761184\, a1^4\, a2^6\, b1^2\, b2^3\, c2$$
$$- 1744416\, a1^4\, a2^6\, b1^2\, b2^2\, c1^2 - 1080540\, a1^4\, a2^6\, b1^2\, b2^2\, c2^2$$
$$+ 4223664\, a1^4\, a2^6\, b1^2\, b2\, c1^2\, c2 + 352944\, a1^4\, a2^6\, b1^2\, b2\, c2^3 - 185490\, a1^4\, a2^6\, b1^2\, c1^4$$
$$- 1744416\, a1^4\, a2^6\, b1^2\, c1^2\, c2^2 + 85266\, a1^4\, a2^6\, b1^2\, c2^4 + 77328\, a1^4\, a2^6\, b1\, b2^4\, c1$$

$$- 1289088\, a1^4\, a2^6\, b1\, b2^3\, c1\, c2 + 725544\, a1^4\, a2^6\, b1\, b2^2\, c1^3$$
$$+ 2423520\, a1^4\, a2^6\, b1\, b2^2\, c1\, c2^2 - 2553336\, a1^4\, a2^6\, b1\, b2\, c1^3\, c2$$
$$- 1289088\, a1^4\, a2^6\, b1\, b2\, c1\, c2^3 + 47952\, a1^4\, a2^6\, b1\, c1^5 + 1337904\, a1^4\, a2^6\, b1\, c1^3\, c2^2$$
$$+ 77328\, a1^4\, a2^6\, b1\, c1\, c2^4 + 4050\, a1^4\, a2^6\, b2^6 - 3888\, a1^4\, a2^6\, b2^5\, c2$$
$$+ 85266\, a1^4\, a2^6\, b2^4\, c1^2 - 20898\, a1^4\, a2^6\, b2^4\, c2^2 + 352944\, a1^4\, a2^6\, b2^3\, c1^2\, c2$$
$$+ 41472\, a1^4\, a2^6\, b2^3\, c2^3 - 6426\, a1^4\, a2^6\, b2^2\, c1^4 - 1080540\, a1^4\, a2^6\, b2^2\, c1^2\, c2^2$$
$$- 20898\, a1^4\, a2^6\, b2^2\, c2^4 + 441504\, a1^4\, a2^6\, b2\, c1^4\, c2 + 761184\, a1^4\, a2^6\, b2\, c1^2\, c2^3$$
$$- 3888\, a1^4\, a2^6\, b2\, c2^5 - 702\, a1^4\, a2^6\, c1^6 - 312606\, a1^4\, a2^6\, c1^4\, c2^2$$
$$- 118854\, a1^4\, a2^6\, c1^2\, c2^4 + 4050\, a1^4\, a2^6\, c2^6 - 105624\, a1^4\, a2^5\, b1^6\, b2$$
$$+ 109836\, a1^4\, a2^5\, b1^6\, c2 + 491184\, a1^4\, a2^5\, b1^5\, b2\, c1 - 778896\, a1^4\, a2^5\, b1^5\, c1\, c2$$
$$- 110376\, a1^4\, a2^5\, b1^4\, b2^3 + 2206764\, a1^4\, a2^5\, b1^4\, b2^2\, c2 - 390420\, a1^4\, a2^5\, b1^4\, b2\, c1^2$$
$$- 3531276\, a1^4\, a2^5\, b1^4\, b2\, c2^2 + 1503360\, a1^4\, a2^5\, b1^4\, c1^2\, c2 + 1189944\, a1^4\, a2^5\, b1^4\, c2^3$$
$$- 1733616\, a1^4\, a2^5\, b1^3\, b2^3\, c1 - 2826576\, a1^4\, a2^5\, b1^3\, b2^2\, c1\, c2$$
$$- 829440\, a1^4\, a2^5\, b1^3\, b2\, c1^3 + 10486584\, a1^4\, a2^5\, b1^3\, b2\, c1\, c2^2$$
$$- 829440\, a1^4\, a2^5\, b1^3\, c1^3\, c2 - 4946616\, a1^4\, a2^5\, b1^3\, c1\, c2^3 + 289656\, a1^4\, a2^5\, b1^2\, b2^5$$
$$- 735156\, a1^4\, a2^5\, b1^2\, b2^4\, c2 + 5600664\, a1^4\, a2^5\, b1^2\, b2^3\, c1^2$$
$$- 813240\, a1^4\, a2^5\, b1^2\, b2^3\, c2^2 - 6335496\, a1^4\, a2^5\, b1^2\, b2^2\, c1^2\, c2$$
$$+ 2974320\, a1^4\, a2^5\, b1^2\, b2^2\, c2^3 + 1503360\, a1^4\, a2^5\, b1^2\, b2\, c1^4$$
$$- 6335496\, a1^4\, a2^5\, b1^2\, b2\, c1^2\, c2^2 - 2016576\, a1^4\, a2^5\, b1^2\, b2\, c2^4$$
$$- 390420\, a1^4\, a2^5\, b1^2\, c1^4\, c2 + 5600664\, a1^4\, a2^5\, b1^2\, c1^2\, c2^3 + 300996\, a1^4\, a2^5\, b1^2\, c2^5$$
$$- 721872\, a1^4\, a2^5\, b1\, b2^5\, c1 + 3145392\, a1^4\, a2^5\, b1\, b2^4\, c1\, c2$$
$$- 4946616\, a1^4\, a2^5\, b1\, b2^3\, c1^3 - 2423520\, a1^4\, a2^5\, b1\, b2^3\, c1\, c2^2$$
$$+ 10486584\, a1^4\, a2^5\, b1\, b2^2\, c1^3\, c2 - 2423520\, a1^4\, a2^5\, b1\, b2^2\, c1\, c2^3$$
$$- 778896\, a1^4\, a2^5\, b1\, b2\, c1^5 - 2826576\, a1^4\, a2^5\, b1\, b2\, c1^3\, c2^2$$
$$+ 3145392\, a1^4\, a2^5\, b1\, b2\, c1\, c2^4 + 491184\, a1^4\, a2^5\, b1\, c1^5\, c2$$
$$- 1733616\, a1^4\, a2^5\, b1\, c1^3\, c2^3 - 721872\, a1^4\, a2^5\, b1\, c1\, c2^5 - 1944\, a1^4\, a2^5\, b2^7$$
$$- 10692\, a1^4\, a2^5\, b2^6\, c2 + 300996\, a1^4\, a2^5\, b2^5\, c1^2 + 43740\, a1^4\, a2^5\, b2^5\, c2^2$$
$$- 2016576\, a1^4\, a2^5\, b2^4\, c1^2\, c2 - 31104\, a1^4\, a2^5\, b2^4\, c2^3 + 1189944\, a1^4\, a2^5\, b2^3\, c1^4$$
$$+ 2974320\, a1^4\, a2^5\, b2^3\, c1^2\, c2^2 - 31104\, a1^4\, a2^5\, b2^3\, c2^4 - 3531276\, a1^4\, a2^5\, b2^2\, c1^4\, c2$$
$$- 813240\, a1^4\, a2^5\, b2^2\, c1^2\, c2^3 + 43740\, a1^4\, a2^5\, b2^2\, c2^5 + 109836\, a1^4\, a2^5\, b2\, c1^6$$
$$+ 2206764\, a1^4\, a2^5\, b2\, c1^4\, c2^2 - 735156\, a1^4\, a2^5\, b2\, c1^2\, c2^4 - 10692\, a1^4\, a2^5\, b2\, c2^6$$
$$- 105624\, a1^4\, a2^5\, c1^6\, c2 - 110376\, a1^4\, a2^5\, c1^4\, c2^3 + 289656\, a1^4\, a2^5\, c1^2\, c2^5$$
$$- 1944\, a1^4\, a2^5\, c2^7 + 1107\, a1^4\, a2^4\, b1^8 + 864\, a1^4\, a2^4\, b1^7\, c1 - 444582\, a1^4\, a2^4\, b1^6\, b2^2$$
$$+ 1417284\, a1^4\, a2^4\, b1^6\, b2\, c2 + 23706\, a1^4\, a2^4\, b1^6\, c1^2 - 983232\, a1^4\, a2^4\, b1^6\, c2^2$$

$$+ 1219212\, a1^4\, a2^4\, b1^5\, b2^2\, c1 - 4894344\, a1^4\, a2^4\, b1^5\, b2\, c1\, c2 - 120312\, a1^4\, a2^4\, b1^5\, c1^3$$
$$+ 4394412\, a1^4\, a2^4\, b1^5\, c1\, c2^2 + 1797742\, a1^4\, a2^4\, b1^4\, b2^4 - 6639088\, a1^4\, a2^4\, b1^4\, b2^3\, c2$$
$$- 1210140\, a1^4\, a2^4\, b1^4\, b2^2\, c1^2 + 4441722\, a1^4\, a2^4\, b1^4\, b2^2\, c2^2$$
$$+ 4372380\, a1^4\, a2^4\, b1^4\, b2\, c1^2\, c2 + 2924312\, a1^4\, a2^4\, b1^4\, b2\, c2^3 + 189270\, a1^4\, a2^4\, b1^4\, c1^4$$
$$- 5944590\, a1^4\, a2^4\, b1^4\, c1^2\, c2^2 - 2218508\, a1^4\, a2^4\, b1^4\, c2^4 - 6639088\, a1^4\, a2^4\, b1^3\, b2^4\, c1$$
$$+ 35224432\, a1^4\, a2^4\, b1^3\, b2^3\, c1\, c2 + 2968920\, a1^4\, a2^4\, b1^3\, b2^2\, c1^3$$
$$- 45770208\, a1^4\, a2^4\, b1^3\, b2^2\, c1\, c2^2 - 1790640\, a1^4\, a2^4\, b1^3\, b2\, c1^3\, c2$$
$$+ 13035832\, a1^4\, a2^4\, b1^3\, b2\, c1\, c2^3 - 120312\, a1^4\, a2^4\, b1^3\, c1^5$$
$$+ 2968920\, a1^4\, a2^4\, b1^3\, c1^3\, c2^2 + 2924312\, a1^4\, a2^4\, b1^3\, c1\, c2^4 - 444582\, a1^4\, a2^4\, b1^2\, b2^6$$
$$+ 1219212\, a1^4\, a2^4\, b1^2\, b2^5\, c2 + 4441722\, a1^4\, a2^4\, b1^2\, b2^4\, c1^2$$
$$- 1210140\, a1^4\, a2^4\, b1^2\, b2^4\, c2^2 - 45770208\, a1^4\, a2^4\, b1^2\, b2^3\, c1^2\, c2$$
$$+ 2968920\, a1^4\, a2^4\, b1^2\, b2^3\, c2^3 - 5944590\, a1^4\, a2^4\, b1^2\, b2^2\, c1^4$$
$$+ 84494052\, a1^4\, a2^4\, b1^2\, b2^2\, c1^2\, c2^2 - 5944590\, a1^4\, a2^4\, b1^2\, b2^2\, c2^4$$
$$+ 4372380\, a1^4\, a2^4\, b1^2\, b2\, c1^4\, c2 - 45770208\, a1^4\, a2^4\, b1^2\, b2\, c1^2\, c2^3$$
$$+ 4394412\, a1^4\, a2^4\, b1^2\, b2\, c2^5 + 23706\, a1^4\, a2^4\, b1^2\, c1^6 - 1210140\, a1^4\, a2^4\, b1^2\, c1^4\, c2^2$$
$$+ 4441722\, a1^4\, a2^4\, b1^2\, c1^2\, c2^4 - 983232\, a1^4\, a2^4\, b1^2\, c2^6 + 1417284\, a1^4\, a2^4\, b1\, b2^6\, c1$$
$$- 4894344\, a1^4\, a2^4\, b1\, b2^5\, c1\, c2 + 2924312\, a1^4\, a2^4\, b1\, b2^4\, c1^3$$
$$+ 4372380\, a1^4\, a2^4\, b1\, b2^4\, c1\, c2^2 + 13035832\, a1^4\, a2^4\, b1\, b2^3\, c1^3\, c2$$
$$- 1790640\, a1^4\, a2^4\, b1\, b2^3\, c1\, c2^3 + 4394412\, a1^4\, a2^4\, b1\, b2^2\, c1^5$$
$$- 45770208\, a1^4\, a2^4\, b1\, b2^2\, c1^3\, c2^2 + 4372380\, a1^4\, a2^4\, b1\, b2^2\, c1\, c2^4$$
$$- 4894344\, a1^4\, a2^4\, b1\, b2\, c1^5\, c2 + 35224432\, a1^4\, a2^4\, b1\, b2\, c1^3\, c2^3$$
$$- 4894344\, a1^4\, a2^4\, b1\, b2\, c1\, c2^5 + 864\, a1^4\, a2^4\, b1\, c1^7 + 1219212\, a1^4\, a2^4\, b1\, c1^5\, c2^2$$
$$- 6639088\, a1^4\, a2^4\, b1\, c1^3\, c2^4 + 1417284\, a1^4\, a2^4\, b1\, c1\, c2^6 + 1107\, a1^4\, a2^4\, b2^8$$
$$+ 864\, a1^4\, a2^4\, b2^7\, c2 - 983232\, a1^4\, a2^4\, b2^6\, c1^2 + 23706\, a1^4\, a2^4\, b2^6\, c2^2$$
$$+ 4394412\, a1^4\, a2^4\, b2^5\, c1^2\, c2 - 120312\, a1^4\, a2^4\, b2^5\, c2^3 - 2218508\, a1^4\, a2^4\, b2^4\, c1^4$$
$$- 5944590\, a1^4\, a2^4\, b2^4\, c1^2\, c2^2 + 189270\, a1^4\, a2^4\, b2^4\, c2^4 + 2924312\, a1^4\, a2^4\, b2^3\, c1^4\, c2$$
$$+ 2968920\, a1^4\, a2^4\, b2^3\, c1^2\, c2^3 - 120312\, a1^4\, a2^4\, b2^3\, c2^5 - 983232\, a1^4\, a2^4\, b2^2\, c1^6$$
$$+ 4441722\, a1^4\, a2^4\, b2^2\, c1^4\, c2^2 - 1210140\, a1^4\, a2^4\, b2^2\, c1^2\, c2^4 + 23706\, a1^4\, a2^4\, b2^2\, c2^6$$
$$+ 1417284\, a1^4\, a2^4\, b2\, c1^6\, c2 - 6639088\, a1^4\, a2^4\, b2\, c1^4\, c2^3 + 1219212\, a1^4\, a2^4\, b2\, c1^2\, c2^5$$
$$+ 864\, a1^4\, a2^4\, b2\, c2^7 + 1107\, a1^4\, a2^4\, c1^8 - 444582\, a1^4\, a2^4\, c1^6\, c2^2$$
$$+ 1797742\, a1^4\, a2^4\, c1^4\, c2^4 - 444582\, a1^4\, a2^4\, c1^2\, c2^6 + 1107\, a1^4\, a2^4\, c2^8$$
$$+ 11664\, a1^4\, a2^3\, b1^8\, b2 - 16092\, a1^4\, a2^3\, b1^8\, c2 - 51732\, a1^4\, a2^3\, b1^7\, b2\, c1$$
$$+ 48276\, a1^4\, a2^3\, b1^7\, c1\, c2 - 406944\, a1^4\, a2^3\, b1^6\, b2^3 + 2999160\, a1^4\, a2^3\, b1^6\, b2^2\, c2$$
$$+ 197532\, a1^4\, a2^3\, b1^6\, b2\, c1^2 - 5833728\, a1^4\, a2^3\, b1^6\, b2\, c2^2 - 292356\, a1^4\, a2^3\, b1^6\, c1^2\, c2$$

$$+ 3255552\, a1^4\, a2^3\, b1^6\, c2^3 - 569376\, a1^4\, a2^3\, b1^5\, b2^3\, c1 - 3168720\, a1^4\, a2^3\, b1^5\, b2^2\, c1\, c2$$
$$- 154764\, a1^4\, a2^3\, b1^5\, b2\, c1^3 + 12957408\, a1^4\, a2^3\, b1^5\, b2\, c1\, c2^2$$
$$+ 636012\, a1^4\, a2^3\, b1^5\, c1^3\, c2 - 10178352\, a1^4\, a2^3\, b1^5\, c1\, c2^3 - 110376\, a1^4\, a2^3\, b1^4\, b2^5$$
$$- 6639088\, a1^4\, a2^3\, b1^4\, b2^4\, c2 + 2846880\, a1^4\, a2^3\, b1^4\, b2^3\, c1^2$$
$$+ 26556352\, a1^4\, a2^3\, b1^4\, b2^3\, c2^2 - 3700080\, a1^4\, a2^3\, b1^4\, b2^2\, c1^2\, c2$$
$$- 32478648\, a1^4\, a2^3\, b1^4\, b2^2\, c2^3 - 378540\, a1^4\, a2^3\, b1^4\, b2\, c1^4$$
$$- 5044680\, a1^4\, a2^3\, b1^4\, b2\, c1^2\, c2^2 + 13315012\, a1^4\, a2^3\, b1^4\, b2\, c2^4$$
$$- 378540\, a1^4\, a2^3\, b1^4\, c1^4\, c2 + 9607680\, a1^4\, a2^3\, b1^4\, c1^2\, c2^3 - 888196\, a1^4\, a2^3\, b1^4\, c2^5$$
$$+ 7288924\, a1^4\, a2^3\, b1^3\, b2^5\, c1 - 9888268\, a1^4\, a2^3\, b1^3\, b2^4\, c1\, c2$$
$$- 4555440\, a1^4\, a2^3\, b1^3\, b2^3\, c1^3 - 50672328\, a1^4\, a2^3\, b1^3\, b2^3\, c1\, c2^2$$
$$+ 1790640\, a1^4\, a2^3\, b1^3\, b2^2\, c1^3\, c2 + 111699272\, a1^4\, a2^3\, b1^3\, b2^2\, c1\, c2^3$$
$$+ 636012\, a1^4\, a2^3\, b1^3\, b2\, c1^5 + 1790640\, a1^4\, a2^3\, b1^3\, b2\, c1^3\, c2^2$$
$$- 68885468\, a1^4\, a2^3\, b1^3\, b2\, c1\, c2^4 - 154764\, a1^4\, a2^3\, b1^3\, c1^5\, c2$$
$$- 4555440\, a1^4\, a2^3\, b1^3\, c1^3\, c2^3 + 11437644\, a1^4\, a2^3\, b1^3\, c1\, c2^5 + 305856\, a1^4\, a2^3\, b1^2\, b2^7$$
$$- 362664\, a1^4\, a2^3\, b1^2\, b2^6\, c2 - 18340356\, a1^4\, a2^3\, b1^2\, b2^5\, c1^2$$
$$- 1350432\, a1^4\, a2^3\, b1^2\, b2^5\, c2^2 + 73934892\, a1^4\, a2^3\, b1^2\, b2^4\, c1^2\, c2$$
$$+ 3864240\, a1^4\, a2^3\, b1^2\, b2^4\, c2^3 + 9607680\, a1^4\, a2^3\, b1^2\, b2^3\, c1^4$$
$$- 56329368\, a1^4\, a2^3\, b1^2\, b2^3\, c1^2\, c2^2 - 6833160\, a1^4\, a2^3\, b1^2\, b2^3\, c2^4$$
$$- 5044680\, a1^4\, a2^3\, b1^2\, b2^2\, c1^4\, c2 - 56329368\, a1^4\, a2^3\, b1^2\, b2^2\, c1^2\, c2^3$$
$$+ 8855568\, a1^4\, a2^3\, b1^2\, b2^2\, c2^5 - 292356\, a1^4\, a2^3\, b1^2\, b2\, c1^6$$
$$- 3700080\, a1^4\, a2^3\, b1^2\, b2\, c1^4\, c2^2 + 73934892\, a1^4\, a2^3\, b1^2\, b2\, c1^2\, c2^4$$
$$- 5881464\, a1^4\, a2^3\, b1^2\, b2\, c2^6 + 197532\, a1^4\, a2^3\, b1^2\, c1^6\, c2$$
$$+ 2846880\, a1^4\, a2^3\, b1^2\, c1^4\, c2^3 - 18340356\, a1^4\, a2^3\, b1^2\, c1^2\, c2^5$$
$$+ 1402056\, a1^4\, a2^3\, b1^2\, c2^7 - 1468152\, a1^4\, a2^3\, b1\, b2^7\, c1 + 4607928\, a1^4\, a2^3\, b1\, b2^6\, c1\, c2$$
$$+ 11437644\, a1^4\, a2^3\, b1\, b2^5\, c1^3 - 4035096\, a1^4\, a2^3\, b1\, b2^5\, c1\, c2^2$$
$$- 68885468\, a1^4\, a2^3\, b1\, b2^4\, c1^3\, c2 + 895320\, a1^4\, a2^3\, b1\, b2^4\, c1\, c2^3$$
$$- 10178352\, a1^4\, a2^3\, b1\, b2^3\, c1^5 + 111699272\, a1^4\, a2^3\, b1\, b2^3\, c1^3\, c2^2$$
$$+ 895320\, a1^4\, a2^3\, b1\, b2^3\, c1\, c2^4 + 12957408\, a1^4\, a2^3\, b1\, b2^2\, c1^5\, c2$$
$$- 50672328\, a1^4\, a2^3\, b1\, b2^2\, c1^3\, c2^3 - 4035096\, a1^4\, a2^3\, b1\, b2^2\, c1\, c2^5$$
$$+ 48276\, a1^4\, a2^3\, b1\, b2\, c1^7 - 3168720\, a1^4\, a2^3\, b1\, b2\, c1^5\, c2^2$$
$$- 9888268\, a1^4\, a2^3\, b1\, b2\, c1^3\, c2^4 + 4607928\, a1^4\, a2^3\, b1\, b2\, c1\, c2^6$$
$$- 51732\, a1^4\, a2^3\, b1\, c1^7\, c2 - 569376\, a1^4\, a2^3\, b1\, c1^5\, c2^3 + 7288924\, a1^4\, a2^3\, b1\, c1^3\, c2^5$$
$$- 1468152\, a1^4\, a2^3\, b1\, c1\, c2^7 - 2376\, a1^4\, a2^3\, b2^9 + 16956\, a1^4\, a2^3\, b2^8\, c2$$
$$+ 1402056\, a1^4\, a2^3\, b2^7\, c1^2 - 69552\, a1^4\, a2^3\, b2^7\, c2^2 - 5881464\, a1^4\, a2^3\, b2^6\, c1^2\, c2$$

$$+ 130680\, a1^4\, a2^3\, b2^6\, c2^3 - 888196\, a1^4\, a2^3\, b2^5\, c1^4 + 8855568\, a1^4\, a2^3\, b2^5\, c1^2\, c2^2$$
$$- 75708\, a1^4\, a2^3\, b2^5\, c2^4 + 13315012\, a1^4\, a2^3\, b2^4\, c1^4\, c2 - 6833160\, a1^4\, a2^3\, b2^4\, c1^2\, c2^3$$
$$- 75708\, a1^4\, a2^3\, b2^4\, c2^5 + 3255552\, a1^4\, a2^3\, b2^3\, c1^6 - 32478648\, a1^4\, a2^3\, b2^3\, c1^4\, c2^2$$
$$+ 3864240\, a1^4\, a2^3\, b2^3\, c1^2\, c2^4 + 130680\, a1^4\, a2^3\, b2^3\, c2^6 - 5833728\, a1^4\, a2^3\, b2^2\, c1^6\, c2$$
$$+ 26556352\, a1^4\, a2^3\, b2^2\, c1^4\, c2^3 - 1350432\, a1^4\, a2^3\, b2^2\, c1^2\, c2^5 - 69552\, a1^4\, a2^3\, b2^2\, c2^7$$
$$- 16092\, a1^4\, a2^3\, b2\, c1^8 + 2999160\, a1^4\, a2^3\, b2\, c1^6\, c2^2 - 6639088\, a1^4\, a2^3\, b2\, c1^4\, c2^4$$
$$- 362664\, a1^4\, a2^3\, b2\, c1^2\, c2^6 + 16956\, a1^4\, a2^3\, b2\, c2^8 + 11664\, a1^4\, a2^3\, c1^8\, c2$$
$$- 406944\, a1^4\, a2^3\, c1^6\, c2^3 - 110376\, a1^4\, a2^3\, c1^4\, c2^5 + 305856\, a1^4\, a2^3\, c1^2\, c2^7$$
$$- 2376\, a1^4\, a2^3\, c2^9 - 108\, a1^4\, a2^2\, b1^{10} - 1080\, a1^4\, a2^2\, b1^9\, c1 + 26244\, a1^4\, a2^2\, b1^8\, b2^2$$
$$- 87480\, a1^4\, a2^2\, b1^8\, b2\, c2 + 4860\, a1^4\, a2^2\, b1^8\, c1^2 + 67878\, a1^4\, a2^2\, b1^8\, c2^2$$
$$- 119232\, a1^4\, a2^2\, b1^7\, b2^2\, c1 + 393660\, a1^4\, a2^2\, b1^7\, b2\, c1\, c2 - 2160\, a1^4\, a2^2\, b1^7\, c1^3$$
$$- 269244\, a1^4\, a2^2\, b1^7\, c1\, c2^2 - 118854\, a1^4\, a2^2\, b1^6\, b2^4 + 1696248\, a1^4\, a2^2\, b1^6\, b2^3\, c2$$
$$+ 316062\, a1^4\, a2^2\, b1^6\, b2^2\, c1^2 - 7043112\, a1^4\, a2^2\, b1^6\, b2^2\, c2^2$$
$$- 1224720\, a1^4\, a2^2\, b1^6\, b2\, c1^2\, c2 + 10529136\, a1^4\, a2^2\, b1^6\, b2\, c2^3 - 15120\, a1^4\, a2^2\, b1^6\, c1^4$$
$$+ 1050894\, a1^4\, a2^2\, b1^6\, c1^2\, c2^2 - 5073948\, a1^4\, a2^2\, b1^6\, c2^4 - 735156\, a1^4\, a2^2\, b1^5\, b2^4\, c1$$
$$+ 4648752\, a1^4\, a2^2\, b1^5\, b2^3\, c1\, c2 - 227124\, a1^4\, a2^2\, b1^5\, b2^2\, c1^3$$
$$- 2220048\, a1^4\, a2^2\, b1^5\, b2^2\, c1\, c2^2 + 918540\, a1^4\, a2^2\, b1^5\, b2\, c1^3\, c2$$
$$- 11477376\, a1^4\, a2^2\, b1^5\, b2\, c1\, c2^3 + 27216\, a1^4\, a2^2\, b1^5\, c1^5$$
$$- 1413288\, a1^4\, a2^2\, b1^5\, c1^3\, c2^2 + 10503108\, a1^4\, a2^2\, b1^5\, c1\, c2^4 - 312606\, a1^4\, a2^2\, b1^4\, b2^6$$
$$+ 2206764\, a1^4\, a2^2\, b1^4\, b2^5\, c2 - 1210140\, a1^4\, a2^2\, b1^4\, b2^4\, c1^2$$
$$+ 4441722\, a1^4\, a2^2\, b1^4\, b2^4\, c2^2 - 3700080\, a1^4\, a2^2\, b1^4\, b2^3\, c1^2\, c2$$
$$- 32478648\, a1^4\, a2^2\, b1^4\, b2^3\, c2^3 + 567810\, a1^4\, a2^2\, b1^4\, b2^2\, c1^4$$
$$+ 11100240\, a1^4\, a2^2\, b1^4\, b2^2\, c1^2\, c2^2 + 48717972\, a1^4\, a2^2\, b1^4\, b2^2\, c2^4$$
$$- 2355480\, a1^4\, a2^2\, b1^4\, b2\, c1^2\, c2^3 - 27476196\, a1^4\, a2^2\, b1^4\, b2\, c2^5$$
$$- 15120\, a1^4\, a2^2\, b1^4\, c1^6 + 567810\, a1^4\, a2^2\, b1^4\, c1^4\, c2^2 - 6616890\, a1^4\, a2^2\, b1^4\, c1^2\, c2^4$$
$$+ 5023464\, a1^4\, a2^2\, b1^4\, c2^6 + 295704\, a1^4\, a2^2\, b1^3\, b2^6\, c1$$
$$- 23640996\, a1^4\, a2^2\, b1^3\, b2^5\, c1\, c2 + 3864240\, a1^4\, a2^2\, b1^3\, b2^4\, c1^3$$
$$+ 73934892\, a1^4\, a2^2\, b1^3\, b2^4\, c1\, c2^2 - 1790640\, a1^4\, a2^2\, b1^3\, b2^3\, c1^3\, c2$$
$$- 47907528\, a1^4\, a2^2\, b1^3\, b2^3\, c1\, c2^3 - 1413288\, a1^4\, a2^2\, b1^3\, b2^2\, c1^5$$
$$- 47843808\, a1^4\, a2^2\, b1^3\, b2^2\, c1\, c2^4 + 918540\, a1^4\, a2^2\, b1^3\, b2\, c1^5\, c2$$
$$- 1790640\, a1^4\, a2^2\, b1^3\, b2\, c1^3\, c2^3 + 60468804\, a1^4\, a2^2\, b1^3\, b2\, c1\, c2^5$$
$$- 2160\, a1^4\, a2^2\, b1^3\, c1^7 - 227124\, a1^4\, a2^2\, b1^3\, c1^5\, c2^2 + 3864240\, a1^4\, a2^2\, b1^3\, c1^3\, c2^4$$
$$- 15796956\, a1^4\, a2^2\, b1^3\, c1\, c2^6 - 163134\, a1^4\, a2^2\, b1^2\, b2^8 + 387504\, a1^4\, a2^2\, b1^2\, b2^7\, c2$$
$$+ 9811374\, a1^4\, a2^2\, b1^2\, b2^6\, c1^2 - 812268\, a1^4\, a2^2\, b1^2\, b2^6\, c2^2$$

$$- 3847176\, a1^4\, a2^2\, b1^2\, b2^5\, c1^2\, c2 + 2974968\, a1^4\, a2^2\, b1^2\, b2^5\, c2^3$$
$$- 6616890\, a1^4\, a2^2\, b1^2\, b2^4\, c1^4 - 101284398\, a1^4\, a2^2\, b1^2\, b2^4\, c1^2\, c2^2$$
$$- 6616890\, a1^4\, a2^2\, b1^2\, b2^4\, c2^4 - 2355480\, a1^4\, a2^2\, b1^2\, b2^3\, c1^4\, c2$$
$$+ 191375232\, a1^4\, a2^2\, b1^2\, b2^3\, c1^2\, c2^3 + 9393408\, a1^4\, a2^2\, b1^2\, b2^3\, c2^5$$
$$+ 1050894\, a1^4\, a2^2\, b1^2\, b2^2\, c1^6 + 11100240\, a1^4\, a2^2\, b1^2\, b2^2\, c1^4\, c2^2$$
$$- 101284398\, a1^4\, a2^2\, b1^2\, b2^2\, c1^2\, c2^4 - 9124488\, a1^4\, a2^2\, b1^2\, b2^2\, c2^6$$
$$- 1224720\, a1^4\, a2^2\, b1^2\, b2\, c1^6\, c2 - 3700080\, a1^4\, a2^2\, b1^2\, b2\, c1^4\, c2^3$$
$$- 3847176\, a1^4\, a2^2\, b1^2\, b2\, c1^2\, c2^5 + 5127624\, a1^4\, a2^2\, b1^2\, b2\, c2^7 + 4860\, a1^4\, a2^2\, b1^2\, c1^8$$
$$+ 316062\, a1^4\, a2^2\, b1^2\, c1^6\, c2^2 - 1210140\, a1^4\, a2^2\, b1^2\, c1^4\, c2^4$$
$$+ 9811374\, a1^4\, a2^2\, b1^2\, c1^2\, c2^6 - 1166724\, a1^4\, a2^2\, b1^2\, c2^8 + 912708\, a1^4\, a2^2\, b1\, b2^8\, c1$$
$$- 2897208\, a1^4\, a2^2\, b1\, b2^7\, c1\, c2 - 15796956\, a1^4\, a2^2\, b1\, b2^6\, c1^3$$
$$+ 3228336\, a1^4\, a2^2\, b1\, b2^6\, c1\, c2^2 + 60468804\, a1^4\, a2^2\, b1\, b2^5\, c1^3\, c2$$
$$- 2421576\, a1^4\, a2^2\, b1\, b2^5\, c1\, c2^3 + 10503108\, a1^4\, a2^2\, b1\, b2^4\, c1^5$$
$$- 47843808\, a1^4\, a2^2\, b1\, b2^4\, c1^3\, c2^2 + 2355480\, a1^4\, a2^2\, b1\, b2^4\, c1\, c2^4$$
$$- 11477376\, a1^4\, a2^2\, b1\, b2^3\, c1^5\, c2 - 47907528\, a1^4\, a2^2\, b1\, b2^3\, c1^3\, c2^3$$
$$- 2421576\, a1^4\, a2^2\, b1\, b2^3\, c1\, c2^5 - 269244\, a1^4\, a2^2\, b1\, b2^2\, c1^7$$
$$- 2220048\, a1^4\, a2^2\, b1\, b2^2\, c1^5\, c2^2 + 73934892\, a1^4\, a2^2\, b1\, b2^2\, c1^3\, c2^4$$
$$+ 3228336\, a1^4\, a2^2\, b1\, b2^2\, c1\, c2^6 + 393660\, a1^4\, a2^2\, b1\, b2\, c1^7\, c2$$
$$+ 4648752\, a1^4\, a2^2\, b1\, b2\, c1^5\, c2^3 - 23640996\, a1^4\, a2^2\, b1\, b2\, c1^3\, c2^5$$
$$- 2897208\, a1^4\, a2^2\, b1\, b2\, c1\, c2^7 - 1080\, a1^4\, a2^2\, b1\, c1^9 - 119232\, a1^4\, a2^2\, b1\, c1^7\, c2^2$$
$$- 735156\, a1^4\, a2^2\, b1\, c1^5\, c2^4 + 295704\, a1^4\, a2^2\, b1\, c1^3\, c2^6 + 912708\, a1^4\, a2^2\, b1\, c1\, c2^8$$
$$+ 4266\, a1^4\, a2^2\, b2^{10} - 35532\, a1^4\, a2^2\, b2^9\, c2 - 1166724\, a1^4\, a2^2\, b2^8\, c1^2$$
$$+ 134460\, a1^4\, a2^2\, b2^8\, c2^2 + 5127624\, a1^4\, a2^2\, b2^7\, c1^2\, c2 - 289008\, a1^4\, a2^2\, b2^7\, c2^3$$
$$+ 5023464\, a1^4\, a2^2\, b2^6\, c1^4 - 9124488\, a1^4\, a2^2\, b2^6\, c1^2\, c2^2 + 407754\, a1^4\, a2^2\, b2^6\, c2^4$$
$$- 27476196\, a1^4\, a2^2\, b2^5\, c1^4\, c2 + 9393408\, a1^4\, a2^2\, b2^5\, c1^2\, c2^3 - 443880\, a1^4\, a2^2\, b2^5\, c2^5$$
$$- 5073948\, a1^4\, a2^2\, b2^4\, c1^6 + 48717972\, a1^4\, a2^2\, b2^4\, c1^4\, c2^2$$
$$- 6616890\, a1^4\, a2^2\, b2^4\, c1^2\, c2^4 + 407754\, a1^4\, a2^2\, b2^4\, c2^6 + 10529136\, a1^4\, a2^2\, b2^3\, c1^6\, c2$$
$$- 32478648\, a1^4\, a2^2\, b2^3\, c1^4\, c2^3 + 2974968\, a1^4\, a2^2\, b2^3\, c1^2\, c2^5 - 289008\, a1^4\, a2^2\, b2^3\, c2^7$$
$$+ 67878\, a1^4\, a2^2\, b2^2\, c1^8 - 7043112\, a1^4\, a2^2\, b2^2\, c1^6\, c2^2 + 4441722\, a1^4\, a2^2\, b2^2\, c1^4\, c2^4$$
$$- 812268\, a1^4\, a2^2\, b2^2\, c1^2\, c2^6 + 134460\, a1^4\, a2^2\, b2^2\, c2^8 - 87480\, a1^4\, a2^2\, b2\, c1^8\, c2$$
$$+ 1696248\, a1^4\, a2^2\, b2\, c1^6\, c2^3 + 2206764\, a1^4\, a2^2\, b2\, c1^4\, c2^5 + 387504\, a1^4\, a2^2\, b2\, c1^2\, c2^7$$
$$- 35532\, a1^4\, a2^2\, b2\, c2^9 - 108\, a1^4\, a2^2\, c1^{10} + 26244\, a1^4\, a2^2\, c1^8\, c2^2$$
$$- 118854\, a1^4\, a2^2\, c1^6\, c2^4 - 312606\, a1^4\, a2^2\, c1^4\, c2^6 - 163134\, a1^4\, a2^2\, c1^2\, c2^8$$
$$+ 4266\, a1^4\, a2^2\, c2^{10} + 216\, a1^4\, a2\, b1^{10}\, c2 - 1080\, a1^4\, a2\, b1^9\, b2\, c1$$

$$+ 3240\, a1^4\, a2\, b1^9\, c1\, c2 + 11664\, a1^4\, a2\, b1^8\, b2^3 - 87480\, a1^4\, a2\, b1^8\, b2^2\, c2$$
$$- 3240\, a1^4\, a2\, b1^8\, b2\, c1^2 + 174960\, a1^4\, a2\, b1^8\, b2\, c2^2 - 6480\, a1^4\, a2\, b1^8\, c1^2\, c2$$
$$- 103572\, a1^4\, a2\, b1^8\, c2^3 - 7992\, a1^4\, a2\, b1^7\, b2^3\, c1 + 262440\, a1^4\, a2\, b1^7\, b2^2\, c1\, c2$$
$$+ 19440\, a1^4\, a2\, b1^7\, b2\, c1^3 - 656100\, a1^4\, a2\, b1^7\, b2\, c1\, c2^2 - 15120\, a1^4\, a2\, b1^7\, c1^3\, c2$$
$$+ 398196\, a1^4\, a2\, b1^7\, c1\, c2^3 + 32076\, a1^4\, a2\, b1^6\, b2^5 + 77328\, a1^4\, a2\, b1^6\, b2^4\, c2$$
$$- 108648\, a1^4\, a2\, b1^6\, b2^3\, c1^2 - 1850904\, a1^4\, a2\, b1^6\, b2^3\, c2^2$$
$$- 306180\, a1^4\, a2\, b1^6\, b2^2\, c1^2\, c2 + 6546312\, a1^4\, a2\, b1^6\, b2^2\, c2^3 - 15120\, a1^4\, a2\, b1^6\, b2\, c1^4$$
$$+ 1530900\, a1^4\, a2\, b1^6\, b2\, c1^2\, c2^2 - 8537724\, a1^4\, a2\, b1^6\, b2\, c2^4 + 45360\, a1^4\, a2\, b1^6\, c1^4\, c2$$
$$- 1210896\, a1^4\, a2\, b1^6\, c1^2\, c2^3 + 3737124\, a1^4\, a2\, b1^6\, c2^5 - 335016\, a1^4\, a2\, b1^5\, b2^5\, c1$$
$$+ 3145392\, a1^4\, a2\, b1^5\, b2^4\, c1\, c2 + 457596\, a1^4\, a2\, b1^5\, b2^3\, c1^3$$
$$- 10939536\, a1^4\, a2\, b1^5\, b2^3\, c1\, c2^2 - 918540\, a1^4\, a2\, b1^5\, b2^2\, c1^3\, c2$$
$$+ 12419568\, a1^4\, a2\, b1^5\, b2^2\, c1\, c2^3 - 27216\, a1^4\, a2\, b1^5\, b2\, c1^5$$
$$- 471096\, a1^4\, a2\, b1^5\, b2\, c1\, c2^4 - 27216\, a1^4\, a2\, b1^5\, c1^5\, c2 + 942192\, a1^4\, a2\, b1^5\, c1^3\, c2^3$$
$$- 4107024\, a1^4\, a2\, b1^5\, c1\, c2^5 + 26244\, a1^4\, a2\, b1^4\, b2^7 + 441504\, a1^4\, a2\, b1^4\, b2^6\, c2$$
$$- 390420\, a1^4\, a2\, b1^4\, b2^5\, c1^2 - 3531276\, a1^4\, a2\, b1^4\, b2^5\, c2^2$$
$$+ 4372380\, a1^4\, a2\, b1^4\, b2^4\, c1^2\, c2 + 2924312\, a1^4\, a2\, b1^4\, b2^4\, c2^3$$
$$- 378540\, a1^4\, a2\, b1^4\, b2^3\, c1^4 - 5044680\, a1^4\, a2\, b1^4\, b2^3\, c1^2\, c2^2$$
$$+ 13315012\, a1^4\, a2\, b1^4\, b2^3\, c2^4 - 2355480\, a1^4\, a2\, b1^4\, b2^2\, c1^2\, c2^3$$
$$- 27476196\, a1^4\, a2\, b1^4\, b2^2\, c2^5 + 45360\, a1^4\, a2\, b1^4\, b2\, c1^6$$
$$+ 2355480\, a1^4\, a2\, b1^4\, b2\, c1^2\, c2^4 + 18317464\, a1^4\, a2\, b1^4\, b2\, c2^6$$
$$- 15120\, a1^4\, a2\, b1^4\, c1^6\, c2 - 378540\, a1^4\, a2\, b1^4\, c1^4\, c2^3 + 2175660\, a1^4\, a2\, b1^4\, c1^2\, c2^5$$
$$- 4052056\, a1^4\, a2\, b1^4\, c2^7 - 650376\, a1^4\, a2\, b1^3\, b2^7\, c1 + 3961224\, a1^4\, a2\, b1^3\, b2^6\, c1\, c2$$
$$- 1724760\, a1^4\, a2\, b1^3\, b2^5\, c1^3 + 11757324\, a1^4\, a2\, b1^3\, b2^5\, c1\, c2^2$$
$$+ 895320\, a1^4\, a2\, b1^3\, b2^4\, c1^3\, c2 - 68885468\, a1^4\, a2\, b1^3\, b2^4\, c1\, c2^3$$
$$+ 942192\, a1^4\, a2\, b1^3\, b2^3\, c1^5 + 92839232\, a1^4\, a2\, b1^3\, b2^3\, c1\, c2^4$$
$$- 36566016\, a1^4\, a2\, b1^3\, b2^2\, c1\, c2^5 - 15120\, a1^4\, a2\, b1^3\, b2\, c1^7$$
$$- 918540\, a1^4\, a2\, b1^3\, b2\, c1^5\, c2^2 + 895320\, a1^4\, a2\, b1^3\, b2\, c1^3\, c2^4$$
$$- 7967596\, a1^4\, a2\, b1^3\, b2\, c1\, c2^6 + 19440\, a1^4\, a2\, b1^3\, c1^7\, c2 + 457596\, a1^4\, a2\, b1^3\, c1^5\, c2^3$$
$$- 1724760\, a1^4\, a2\, b1^3\, c1^3\, c2^5 + 5651644\, a1^4\, a2\, b1^3\, c1\, c2^7 + 2916\, a1^4\, a2\, b1^2\, b2^9$$
$$+ 300024\, a1^4\, a2\, b1^2\, b2^8\, c2 + 309744\, a1^4\, a2\, b1^2\, b2^7\, c1^2 - 1587600\, a1^4\, a2\, b1^2\, b2^7\, c2^2$$
$$- 21790956\, a1^4\, a2\, b1^2\, b2^6\, c1^2\, c2 + 4245912\, a1^4\, a2\, b1^2\, b2^6\, c2^3$$
$$+ 2175660\, a1^4\, a2\, b1^2\, b2^5\, c1^4 + 69220044\, a1^4\, a2\, b1^2\, b2^5\, c1^2\, c2^2$$
$$- 7856352\, a1^4\, a2\, b1^2\, b2^5\, c2^4 + 2355480\, a1^4\, a2\, b1^2\, b2^4\, c1^4\, c2$$
$$- 47843808\, a1^4\, a2\, b1^2\, b2^4\, c1^2\, c2^3 + 10503108\, a1^4\, a2\, b1^2\, b2^4\, c2^5$$

$$- 1210896\, a1^4\, a2\, b1^2\, b2^3\, c1^6 - 2355480\, a1^4\, a2\, b1^2\, b2^3\, c1^4\, c2^2$$
$$- 47843808\, a1^4\, a2\, b1^2\, b2^3\, c1^2\, c2^4 - 10133208\, a1^4\, a2\, b1^2\, b2^3\, c2^6$$
$$+ 1530900\, a1^4\, a2\, b1^2\, b2^2\, c1^6\, c2 - 5044680\, a1^4\, a2\, b1^2\, b2^2\, c1^4\, c2^3$$
$$+ 69220044\, a1^4\, a2\, b1^2\, b2^2\, c1^2\, c2^5 + 6949800\, a1^4\, a2\, b1^2\, b2^2\, c2^7$$
$$- 6480\, a1^4\, a2\, b1^2\, b2\, c1^8 - 306180\, a1^4\, a2\, b1^2\, b2\, c1^6\, c2^2$$
$$+ 4372380\, a1^4\, a2\, b1^2\, b2\, c1^4\, c2^4 - 21790956\, a1^4\, a2\, b1^2\, b2\, c1^2\, c2^6$$
$$- 3019356\, a1^4\, a2\, b1^2\, b2\, c2^8 - 3240\, a1^4\, a2\, b1^2\, c1^8\, c2 - 108648\, a1^4\, a2\, b1^2\, c1^6\, c2^3$$
$$- 390420\, a1^4\, a2\, b1^2\, c1^4\, c2^5 + 309744\, a1^4\, a2\, b1^2\, c1^2\, c2^7 + 594756\, a1^4\, a2\, b1^2\, c2^9$$
$$- 322272\, a1^4\, a2\, b1\, b2^9\, c1 + 1075032\, a1^4\, a2\, b1\, b2^8\, c1\, c2 + 5651644\, a1^4\, a2\, b1\, b2^7\, c1^3$$
$$- 1402920\, a1^4\, a2\, b1\, b2^7\, c1\, c2^2 - 7967596\, a1^4\, a2\, b1\, b2^6\, c1^3\, c2$$
$$+ 1121256\, a1^4\, a2\, b1\, b2^6\, c1\, c2^3 - 4107024\, a1^4\, a2\, b1\, b2^5\, c1^5$$
$$- 36566016\, a1^4\, a2\, b1\, b2^5\, c1^3\, c2^2 - 471096\, a1^4\, a2\, b1\, b2^5\, c1\, c2^4$$
$$- 471096\, a1^4\, a2\, b1\, b2^4\, c1^5\, c2 + 92839232\, a1^4\, a2\, b1\, b2^4\, c1^3\, c2^3$$
$$- 471096\, a1^4\, a2\, b1\, b2^4\, c1\, c2^5 + 398196\, a1^4\, a2\, b1\, b2^3\, c1^7$$
$$+ 12419568\, a1^4\, a2\, b1\, b2^3\, c1^5\, c2^2 - 68885468\, a1^4\, a2\, b1\, b2^3\, c1^3\, c2^4$$
$$+ 1121256\, a1^4\, a2\, b1\, b2^3\, c1\, c2^6 - 656100\, a1^4\, a2\, b1\, b2^2\, c1^7\, c2$$
$$- 10939536\, a1^4\, a2\, b1\, b2^2\, c1^5\, c2^3 + 11757324\, a1^4\, a2\, b1\, b2^2\, c1^3\, c2^5$$
$$- 1402920\, a1^4\, a2\, b1\, b2^2\, c1\, c2^7 + 3240\, a1^4\, a2\, b1\, b2\, c1^9 + 262440\, a1^4\, a2\, b1\, b2\, c1^7\, c2^2$$
$$+ 3145392\, a1^4\, a2\, b1\, b2\, c1^5\, c2^4 + 3961224\, a1^4\, a2\, b1\, b2\, c1^3\, c2^6$$
$$+ 1075032\, a1^4\, a2\, b1\, b2\, c1\, c2^8 - 1080\, a1^4\, a2\, b1\, c1^9\, c2 - 7992\, a1^4\, a2\, b1\, c1^7\, c2^3$$
$$- 335016\, a1^4\, a2\, b1\, c1^5\, c2^5 - 650376\, a1^4\, a2\, b1\, c1^3\, c2^7 - 322272\, a1^4\, a2\, b1\, c1\, c2^9$$
$$- 2916\, a1^4\, a2\, b2^{11} + 23544\, a1^4\, a2\, b2^{10}\, c2 + 594756\, a1^4\, a2\, b2^9\, c1^2$$
$$- 82188\, a1^4\, a2\, b2^9\, c2^2 - 3019356\, a1^4\, a2\, b2^8\, c1^2\, c2 + 156924\, a1^4\, a2\, b2^8\, c2^3$$
$$- 4052056\, a1^4\, a2\, b2^7\, c1^4 + 6949800\, a1^4\, a2\, b2^7\, c1^2\, c2^2 - 169344\, a1^4\, a2\, b2^7\, c2^4$$
$$+ 18317464\, a1^4\, a2\, b2^6\, c1^4\, c2 - 10133208\, a1^4\, a2\, b2^6\, c1^2\, c2^3 + 73980\, a1^4\, a2\, b2^6\, c2^5$$
$$+ 3737124\, a1^4\, a2\, b2^5\, c1^6 - 27476196\, a1^4\, a2\, b2^5\, c1^4\, c2^2 + 10503108\, a1^4\, a2\, b2^5\, c1^2\, c2^4$$
$$+ 73980\, a1^4\, a2\, b2^5\, c2^6 - 8537724\, a1^4\, a2\, b2^4\, c1^6\, c2 + 13315012\, a1^4\, a2\, b2^4\, c1^4\, c2^3$$
$$- 7856352\, a1^4\, a2\, b2^4\, c1^2\, c2^5 - 169344\, a1^4\, a2\, b2^4\, c2^7 - 103572\, a1^4\, a2\, b2^3\, c1^8$$
$$+ 6546312\, a1^4\, a2\, b2^3\, c1^6\, c2^2 + 2924312\, a1^4\, a2\, b2^3\, c1^4\, c2^4$$
$$+ 4245912\, a1^4\, a2\, b2^3\, c1^2\, c2^6 + 156924\, a1^4\, a2\, b2^3\, c2^8 + 174960\, a1^4\, a2\, b2^2\, c1^8\, c2$$
$$- 1850904\, a1^4\, a2\, b2^2\, c1^6\, c2^3 - 3531276\, a1^4\, a2\, b2^2\, c1^4\, c2^5$$
$$- 1587600\, a1^4\, a2\, b2^2\, c1^2\, c2^7 - 82188\, a1^4\, a2\, b2^2\, c2^9 + 216\, a1^4\, a2\, b2\, c1^{10}$$
$$- 87480\, a1^4\, a2\, b2\, c1^8\, c2^2 + 77328\, a1^4\, a2\, b2\, c1^6\, c2^4 + 441504\, a1^4\, a2\, b2\, c1^4\, c2^6$$
$$+ 300024\, a1^4\, a2\, b2\, c1^2\, c2^8 + 23544\, a1^4\, a2\, b2\, c2^{10} + 11664\, a1^4\, a2\, c1^8\, c2^3$$

$$+ 32076\, a1^4\, a2\, c1^6\, c2^5 + 26244\, a1^4\, a2\, c1^4\, c2^7 + 2916\, a1^4\, a2\, c1^2\, c2^9$$
$$- 2916\, a1^4\, a2\, c2^{11} - 108\, a1^4\, b1^{10}\, c2^2 + 1080\, a1^4\, b1^9\, b2\, c1\, c2 - 2160\, a1^4\, b1^9\, c1\, c2^2$$
$$+ 729\, a1^4\, b1^8\, b2^4 - 14580\, a1^4\, b1^8\, b2^3\, c2 - 1620\, a1^4\, b1^8\, b2^2\, c1^2$$
$$+ 65610\, a1^4\, b1^8\, b2^2\, c2^2 + 6480\, a1^4\, b1^8\, b2\, c1^2\, c2 - 102060\, a1^4\, b1^8\, b2\, c2^3$$
$$+ 51408\, a1^4\, b1^8\, c2^4 + 8748\, a1^4\, b1^7\, b2^4\, c1 - 27000\, a1^4\, b1^7\, b2^3\, c1\, c2$$
$$- 2160\, a1^4\, b1^7\, b2^2\, c1^3 - 90720\, a1^4\, b1^7\, b2^2\, c1\, c2^2 - 15120\, a1^4\, b1^7\, b2\, c1^3\, c2$$
$$+ 279180\, a1^4\, b1^7\, b2\, c1\, c2^3 + 15120\, a1^4\, b1^7\, c1^3\, c2^2 - 169344\, a1^4\, b1^7\, c1\, c2^4$$
$$+ 2916\, a1^4\, b1^6\, b2^6 - 49572\, a1^4\, b1^6\, b2^5\, c2 - 20898\, a1^4\, b1^6\, b2^4\, c1^2$$
$$+ 85266\, a1^4\, b1^6\, b2^4\, c2^2 + 192240\, a1^4\, b1^6\, b2^3\, c1^2\, c2 + 503280\, a1^4\, b1^6\, b2^3\, c2^3$$
$$+ 15120\, a1^4\, b1^6\, b2^2\, c1^4 - 135270\, a1^4\, b1^6\, b2^2\, c1^2\, c2^2 - 2014038\, a1^4\, b1^6\, b2^2\, c2^4$$
$$- 15120\, a1^4\, b1^6\, b2\, c1^4\, c2 - 420120\, a1^4\, b1^6\, b2\, c1^2\, c2^3 + 2513160\, a1^4\, b1^6\, b2\, c2^5$$
$$- 15120\, a1^4\, b1^6\, c1^4\, c2^2 + 407754\, a1^4\, b1^6\, c1^2\, c2^4 - 1041714\, a1^4\, b1^6\, c2^6$$
$$+ 26244\, a1^4\, b1^5\, b2^6\, c1 + 177552\, a1^4\, b1^5\, b2^5\, c1\, c2 - 31104\, a1^4\, b1^5\, b2^4\, c1^3$$
$$- 2016576\, a1^4\, b1^5\, b2^4\, c1\, c2^2 - 333180\, a1^4\, b1^5\, b2^3\, c1^3\, c2 + 6335280\, a1^4\, b1^5\, b2^3\, c1\, c2^3$$
$$- 9072\, a1^4\, b1^5\, b2^2\, c1^5 + 959040\, a1^4\, b1^5\, b2^2\, c1^3\, c2^2 - 7856352\, a1^4\, b1^5\, b2^2\, c1\, c2^4$$
$$+ 45360\, a1^4\, b1^5\, b2\, c1^5\, c2 - 639360\, a1^4\, b1^5\, b2\, c1^3\, c2^3 + 3236760\, a1^4\, b1^5\, b2\, c1\, c2^5$$
$$- 9072\, a1^4\, b1^5\, c1^5\, c2^2 - 75708\, a1^4\, b1^5\, c1^3\, c2^4 + 145044\, a1^4\, b1^5\, c1\, c2^6$$
$$+ 4374\, a1^4\, b1^4\, b2^8 - 61236\, a1^4\, b1^4\, b2^7\, c2 - 185490\, a1^4\, b1^4\, b2^6\, c1^2$$
$$- 6426\, a1^4\, b1^4\, b2^6\, c2^2 + 1503360\, a1^4\, b1^4\, b2^5\, c1^2\, c2 + 1189944\, a1^4\, b1^4\, b2^5\, c2^3$$
$$+ 189270\, a1^4\, b1^4\, b2^4\, c1^4 - 5944590\, a1^4\, b1^4\, b2^4\, c1^2\, c2^2 - 2218508\, a1^4\, b1^4\, b2^4\, c2^4$$
$$- 378540\, a1^4\, b1^4\, b2^3\, c1^4\, c2 + 9607680\, a1^4\, b1^4\, b2^3\, c1^2\, c2^3 - 888196\, a1^4\, b1^4\, b2^3\, c2^5$$
$$- 15120\, a1^4\, b1^4\, b2^2\, c1^6 + 567810\, a1^4\, b1^4\, b2^2\, c1^4\, c2^2 - 6616890\, a1^4\, b1^4\, b2^2\, c1^2\, c2^4$$
$$+ 5023464\, a1^4\, b1^4\, b2^2\, c2^6 - 15120\, a1^4\, b1^4\, b2\, c1^6\, c2 - 378540\, a1^4\, b1^4\, b2\, c1^4\, c2^3$$
$$+ 2175660\, a1^4\, b1^4\, b2\, c1^2\, c2^5 - 4052056\, a1^4\, b1^4\, b2\, c2^7 + 15120\, a1^4\, b1^4\, c1^6\, c2^2$$
$$+ 189270\, a1^4\, b1^4\, c1^4\, c2^4 - 725220\, a1^4\, b1^4\, c1^2\, c2^6 + 1013014\, a1^4\, b1^4\, c2^8$$
$$+ 26244\, a1^4\, b1^3\, b2^8\, c1 + 440424\, a1^4\, b1^3\, b2^7\, c1\, c2 - 138240\, a1^4\, b1^3\, b2^6\, c1^3$$
$$- 3522096\, a1^4\, b1^3\, b2^6\, c1\, c2^2 + 2554200\, a1^4\, b1^3\, b2^5\, c1^3\, c2$$
$$+ 3125084\, a1^4\, b1^3\, b2^5\, c1\, c2^3 - 75708\, a1^4\, b1^3\, b2^4\, c1^5 - 6833160\, a1^4\, b1^3\, b2^4\, c1^3\, c2^2$$
$$+ 13315012\, a1^4\, b1^3\, b2^4\, c1\, c2^4 - 639360\, a1^4\, b1^3\, b2^3\, c1^5\, c2$$
$$+ 9110880\, a1^4\, b1^3\, b2^3\, c1^3\, c2^3 - 29219856\, a1^4\, b1^3\, b2^3\, c1\, c2^5 + 15120\, a1^4\, b1^3\, b2^2\, c1^7$$
$$+ 959040\, a1^4\, b1^3\, b2^2\, c1^5\, c2^2 - 6833160\, a1^4\, b1^3\, b2^2\, c1^3\, c2^4$$
$$+ 20704264\, a1^4\, b1^3\, b2^2\, c1\, c2^6 - 15120\, a1^4\, b1^3\, b2\, c1^7\, c2 - 333180\, a1^4\, b1^3\, b2\, c1^5\, c2^3$$
$$+ 2554200\, a1^4\, b1^3\, b2\, c1^3\, c2^5 - 4777276\, a1^4\, b1^3\, b2\, c1\, c2^7 - 2160\, a1^4\, b1^3\, c1^7\, c2^2$$
$$- 31104\, a1^4\, b1^3\, c1^5\, c2^4 - 138240\, a1^4\, b1^3\, c1^3\, c2^6 - 109296\, a1^4\, b1^3\, c1\, c2^8$$

$$+ 2916\, a1^4\, b1^2\, b2^{10} - 32076\, a1^4\, b1^2\, b2^9\, c2 - 314766\, a1^4\, b1^2\, b2^8\, c1^2$$
$$- 5670\, a1^4\, b1^2\, b2^8\, c2^2 + 2208384\, a1^4\, b1^2\, b2^7\, c1^2\, c2 + 544320\, a1^4\, b1^2\, b2^7\, c2^3$$
$$- 725220\, a1^4\, b1^2\, b2^6\, c1^4 + 3166134\, a1^4\, b1^2\, b2^6\, c1^2\, c2^2 - 2014038\, a1^4\, b1^2\, b2^6\, c2^4$$
$$+ 2175660\, a1^4\, b1^2\, b2^5\, c1^4\, c2 - 29405616\, a1^4\, b1^2\, b2^5\, c1^2\, c2^3 + 3988116\, a1^4\, b1^2\, b2^5\, c2^5$$
$$+ 407754\, a1^4\, b1^2\, b2^4\, c1^6 - 6616890\, a1^4\, b1^2\, b2^4\, c1^4\, c2^2 + 48717972\, a1^4\, b1^2\, b2^4\, c1^2\, c2^4$$
$$- 5073948\, a1^4\, b1^2\, b2^4\, c2^6 - 420120\, a1^4\, b1^2\, b2^3\, c1^6\, c2 + 9607680\, a1^4\, b1^2\, b2^3\, c1^4\, c2^3$$
$$- 29405616\, a1^4\, b1^2\, b2^3\, c1^2\, c2^5 + 4347000\, a1^4\, b1^2\, b2^3\, c2^7 - 135270\, a1^4\, b1^2\, b2^2\, c1^6\, c2^2$$
$$- 5944590\, a1^4\, b1^2\, b2^2\, c1^4\, c2^4 + 3166134\, a1^4\, b1^2\, b2^2\, c1^2\, c2^6 - 2498850\, a1^4\, b1^2\, b2^2\, c2^8$$
$$+ 6480\, a1^4\, b1^2\, b2\, c1^8\, c2 + 192240\, a1^4\, b1^2\, b2\, c1^6\, c2^3 + 1503360\, a1^4\, b1^2\, b2\, c1^4\, c2^5$$
$$+ 2208384\, a1^4\, b1^2\, b2\, c1^2\, c2^7 + 890784\, a1^4\, b1^2\, b2\, c2^9 - 1620\, a1^4\, b1^2\, c1^8\, c2^2$$
$$- 20898\, a1^4\, b1^2\, c1^6\, c2^4 - 185490\, a1^4\, b1^2\, c1^4\, c2^6 - 314766\, a1^4\, b1^2\, c1^2\, c2^8$$
$$- 148554\, a1^4\, b1^2\, c2^{10} + 8748\, a1^4\, b1\, b2^{10}\, c1 + 234792\, a1^4\, b1\, b2^9\, c1\, c2$$
$$- 109296\, a1^4\, b1\, b2^8\, c1^3 - 1594080\, a1^4\, b1\, b2^8\, c1\, c2^2 - 4777276\, a1^4\, b1\, b2^7\, c1^3\, c2$$
$$+ 4718520\, a1^4\, b1\, b2^7\, c1\, c2^3 + 145044\, a1^4\, b1\, b2^6\, c1^5 + 20704264\, a1^4\, b1\, b2^6\, c1^3\, c2^2$$
$$- 8537724\, a1^4\, b1\, b2^6\, c1\, c2^4 + 3236760\, a1^4\, b1\, b2^5\, c1^5\, c2$$
$$- 29219856\, a1^4\, b1\, b2^5\, c1^3\, c2^3 + 10339488\, a1^4\, b1\, b2^5\, c1\, c2^5 - 169344\, a1^4\, b1\, b2^4\, c1^7$$
$$- 7856352\, a1^4\, b1\, b2^4\, c1^5\, c2^2 + 13315012\, a1^4\, b1\, b2^4\, c1^3\, c2^4$$
$$- 8537724\, a1^4\, b1\, b2^4\, c1\, c2^6 + 279180\, a1^4\, b1\, b2^3\, c1^7\, c2 + 6335280\, a1^4\, b1\, b2^3\, c1^5\, c2^3$$
$$+ 3125084\, a1^4\, b1\, b2^3\, c1^3\, c2^5 + 4718520\, a1^4\, b1\, b2^3\, c1\, c2^7 - 2160\, a1^4\, b1\, b2^2\, c1^9$$
$$- 90720\, a1^4\, b1\, b2^2\, c1^7\, c2^2 - 2016576\, a1^4\, b1\, b2^2\, c1^5\, c2^4 - 3522096\, a1^4\, b1\, b2^2\, c1^3\, c2^6$$
$$- 1594080\, a1^4\, b1\, b2^2\, c1\, c2^8 + 1080\, a1^4\, b1\, b2\, c1^9\, c2 - 27000\, a1^4\, b1\, b2\, c1^7\, c2^3$$
$$+ 177552\, a1^4\, b1\, b2\, c1^5\, c2^5 + 440424\, a1^4\, b1\, b2\, c1^3\, c2^7 + 234792\, a1^4\, b1\, b2\, c1\, c2^9$$
$$+ 8748\, a1^4\, b1\, c1^7\, c2^4 + 26244\, a1^4\, b1\, c1^5\, c2^6 + 26244\, a1^4\, b1\, c1^3\, c2^8$$
$$+ 8748\, a1^4\, b1\, c1\, c2^{10} + 729\, a1^4\, b2^{12} - 5832\, a1^4\, b2^{11}\, c2 - 148554\, a1^4\, b2^{10}\, c1^2$$
$$+ 20304\, a1^4\, b2^{10}\, c2^2 + 890784\, a1^4\, b2^9\, c1^2\, c2 - 40284\, a1^4\, b2^9\, c2^3$$
$$+ 1013014\, a1^4\, b2^8\, c1^4 - 2498850\, a1^4\, b2^8\, c1^2\, c2^2 + 51408\, a1^4\, b2^8\, c2^4$$
$$- 4052056\, a1^4\, b2^7\, c1^4\, c2 + 4347000\, a1^4\, b2^7\, c1^2\, c2^3 - 48384\, a1^4\, b2^7\, c2^5$$
$$- 1041714\, a1^4\, b2^6\, c1^6 + 5023464\, a1^4\, b2^6\, c1^4\, c2^2 - 5073948\, a1^4\, b2^6\, c1^2\, c2^4$$
$$+ 44118\, a1^4\, b2^6\, c2^6 + 2513160\, a1^4\, b2^5\, c1^6\, c2 - 888196\, a1^4\, b2^5\, c1^4\, c2^3$$
$$+ 3988116\, a1^4\, b2^5\, c1^2\, c2^5 - 48384\, a1^4\, b2^5\, c2^7 + 51408\, a1^4\, b2^4\, c1^8$$
$$- 2014038\, a1^4\, b2^4\, c1^6\, c2^2 - 2218508\, a1^4\, b2^4\, c1^4\, c2^4 - 2014038\, a1^4\, b2^4\, c1^2\, c2^6$$
$$+ 51408\, a1^4\, b2^4\, c2^8 - 102060\, a1^4\, b2^3\, c1^8\, c2 + 503280\, a1^4\, b2^3\, c1^6\, c2^3$$
$$+ 1189944\, a1^4\, b2^3\, c1^4\, c2^5 + 544320\, a1^4\, b2^3\, c1^2\, c2^7 - 40284\, a1^4\, b2^3\, c2^9$$
$$- 108\, a1^4\, b2^2\, c1^{10} + 65610\, a1^4\, b2^2\, c1^8\, c2^2 + 85266\, a1^4\, b2^2\, c1^6\, c2^4$$

$$- 6426\, a1^4\, b2^2\, c1^4\, c2^6 - 5670\, a1^4\, b2^2\, c1^2\, c2^8 + 20304\, a1^4\, b2^2\, c2^{10}$$
$$- 14580\, a1^4\, b2\, c1^8\, c2^3 - 49572\, a1^4\, b2\, c1^6\, c2^5 - 61236\, a1^4\, b2\, c1^4\, c2^7$$
$$- 32076\, a1^4\, b2\, c1^2\, c2^9 - 5832\, a1^4\, b2\, c2^{11} + 729\, a1^4\, c1^8\, c2^4 + 2916\, a1^4\, c1^6\, c2^6$$
$$+ 4374\, a1^4\, c1^4\, c2^8 + 2916\, a1^4\, c1^2\, c2^{10} + 729\, a1^4\, c2^{12} - 11664\, a1^3\, a2^9\, b1^3\, b2$$
$$+ 11664\, a1^3\, a2^9\, b1^3\, c2 + 34992\, a1^3\, a2^9\, b1^2\, b2\, c1 - 34992\, a1^3\, a2^9\, b1^2\, c1\, c2$$
$$- 2916\, a1^3\, a2^9\, b1\, b2^3 + 8748\, a1^3\, a2^9\, b1\, b2^2\, c2 - 34992\, a1^3\, a2^9\, b1\, b2\, c1^2$$
$$- 8748\, a1^3\, a2^9\, b1\, b2\, c2^2 + 34992\, a1^3\, a2^9\, b1\, c1^2\, c2 + 2916\, a1^3\, a2^9\, b1\, c2^3$$
$$+ 2916\, a1^3\, a2^9\, b2^3\, c1 - 8748\, a1^3\, a2^9\, b2^2\, c1\, c2 + 11664\, a1^3\, a2^9\, b2\, c1^3$$
$$+ 8748\, a1^3\, a2^9\, b2\, c1\, c2^2 - 11664\, a1^3\, a2^9\, c1^3\, c2 - 2916\, a1^3\, a2^9\, c1\, c2^3$$
$$- 8748\, a1^3\, a2^8\, b1^5 + 26244\, a1^3\, a2^8\, b1^4\, c1 + 17496\, a1^3\, a2^8\, b1^3\, b2^2$$
$$+ 69984\, a1^3\, a2^8\, b1^3\, b2\, c2 - 17496\, a1^3\, a2^8\, b1^3\, c1^2 - 87480\, a1^3\, a2^8\, b1^3\, c2^2$$
$$- 122472\, a1^3\, a2^8\, b1^2\, b2^2\, c1 - 69984\, a1^3\, a2^8\, b1^2\, b2\, c1\, c2 - 17496\, a1^3\, a2^8\, b1^2\, c1^3$$
$$+ 192456\, a1^3\, a2^8\, b1^2\, c1\, c2^2 + 11664\, a1^3\, a2^8\, b1\, b2^4 - 20412\, a1^3\, a2^8\, b1\, b2^3\, c2$$
$$+ 192456\, a1^3\, a2^8\, b1\, b2^2\, c1^2 - 8748\, a1^3\, a2^8\, b1\, b2^2\, c2^2 - 69984\, a1^3\, a2^8\, b1\, b2\, c1^2\, c2$$
$$+ 32076\, a1^3\, a2^8\, b1\, b2\, c2^3 + 26244\, a1^3\, a2^8\, b1\, c1^4 - 122472\, a1^3\, a2^8\, b1\, c1^2\, c2^2$$
$$- 14580\, a1^3\, a2^8\, b1\, c2^4 - 14580\, a1^3\, a2^8\, b2^4\, c1 + 32076\, a1^3\, a2^8\, b2^3\, c1\, c2$$
$$- 87480\, a1^3\, a2^8\, b2^2\, c1^3 - 8748\, a1^3\, a2^8\, b2^2\, c1\, c2^2 + 69984\, a1^3\, a2^8\, b2\, c1^3\, c2$$
$$- 20412\, a1^3\, a2^8\, b2\, c1\, c2^3 - 8748\, a1^3\, a2^8\, c1^5 + 17496\, a1^3\, a2^8\, c1^3\, c2^2$$
$$+ 11664\, a1^3\, a2^8\, c1\, c2^4 + 109080\, a1^3\, a2^7\, b1^5\, b2 - 39096\, a1^3\, a2^7\, b1^5\, c2$$
$$- 650376\, a1^3\, a2^7\, b1^4\, b2\, c1 + 440424\, a1^3\, a2^7\, b1^4\, c1\, c2 + 200016\, a1^3\, a2^7\, b1^3\, b2^3$$
$$- 740016\, a1^3\, a2^7\, b1^3\, b2^2\, c2 + 1335744\, a1^3\, a2^7\, b1^3\, b2\, c1^2 + 460080\, a1^3\, a2^7\, b1^3\, b2\, c2^2$$
$$- 1195776\, a1^3\, a2^7\, b1^3\, c1^2\, c2 + 79920\, a1^3\, a2^7\, b1^3\, c2^3 - 436752\, a1^3\, a2^7\, b1^2\, b2^3\, c1$$
$$+ 2290032\, a1^3\, a2^7\, b1^2\, b2^2\, c1\, c2 - 1195776\, a1^3\, a2^7\, b1^2\, b2\, c1^3$$
$$- 2010096\, a1^3\, a2^7\, b1^2\, b2\, c1\, c2^2 + 1335744\, a1^3\, a2^7\, b1^2\, c1^3\, c2$$
$$+ 156816\, a1^3\, a2^7\, b1^2\, c1\, c2^3 - 17064\, a1^3\, a2^7\, b1\, b2^5 - 7992\, a1^3\, a2^7\, b1\, b2^4\, c2$$
$$+ 156816\, a1^3\, a2^7\, b1\, b2^3\, c1^2 + 97632\, a1^3\, a2^7\, b1\, b2^3\, c2^2$$
$$- 2010096\, a1^3\, a2^7\, b1\, b2^2\, c1^2\, c2 - 74304\, a1^3\, a2^7\, b1\, b2^2\, c2^3 + 440424\, a1^3\, a2^7\, b1\, b2\, c1^4$$
$$+ 2290032\, a1^3\, a2^7\, b1\, b2\, c1^2\, c2^2 - 27000\, a1^3\, a2^7\, b1\, b2\, c2^4 - 650376\, a1^3\, a2^7\, b1\, c1^4\, c2$$
$$- 436752\, a1^3\, a2^7\, b1\, c1^2\, c2^3 + 28728\, a1^3\, a2^7\, b1\, c2^5 + 28728\, a1^3\, a2^7\, b2^5\, c1$$
$$- 27000\, a1^3\, a2^7\, b2^4\, c1\, c2 + 79920\, a1^3\, a2^7\, b2^3\, c1^3 - 74304\, a1^3\, a2^7\, b2^3\, c1\, c2^2$$
$$+ 460080\, a1^3\, a2^7\, b2^2\, c1^3\, c2 + 97632\, a1^3\, a2^7\, b2^2\, c1\, c2^3 - 39096\, a1^3\, a2^7\, b2\, c1^5$$
$$- 740016\, a1^3\, a2^7\, b2\, c1^3\, c2^2 - 7992\, a1^3\, a2^7\, b2\, c1\, c2^4 + 109080\, a1^3\, a2^7\, c1^5\, c2$$
$$+ 200016\, a1^3\, a2^7\, c1^3\, c2^3 - 17064\, a1^3\, a2^7\, c1\, c2^5 + 15984\, a1^3\, a2^6\, b1^7$$
$$- 109080\, a1^3\, a2^6\, b1^6\, c1 + 190944\, a1^3\, a2^6\, b1^5\, b2^2 - 1145448\, a1^3\, a2^6\, b1^5\, b2\, c2$$

$$+ 231336\, a1^3\, a2^6\, b1^5\, c1^2 + 709560\, a1^3\, a2^6\, b1^5\, c2^2 + 295704\, a1^3\, a2^6\, b1^4\, b2^2\, c1$$
$$+ 3961224\, a1^3\, a2^6\, b1^4\, b2\, c1\, c2 - 138240\, a1^3\, a2^6\, b1^4\, c1^3 - 3522096\, a1^3\, a2^6\, b1^4\, c1\, c2^2$$
$$- 406944\, a1^3\, a2^6\, b1^3\, b2^4 + 227664\, a1^3\, a2^6\, b1^3\, b2^3\, c2 - 3267216\, a1^3\, a2^6\, b1^3\, b2^2\, c1^2$$
$$+ 2248560\, a1^3\, a2^6\, b1^3\, b2^2\, c2^2 - 2815776\, a1^3\, a2^6\, b1^3\, b2\, c1^2\, c2$$
$$- 2572560\, a1^3\, a2^6\, b1^3\, b2\, c2^3 - 138240\, a1^3\, a2^6\, b1^3\, c1^4 + 5593104\, a1^3\, a2^6\, b1^3\, c1^2\, c2^2$$
$$+ 503280\, a1^3\, a2^6\, b1^3\, c2^4 + 1696248\, a1^3\, a2^6\, b1^2\, b2^4\, c1 - 3727728\, a1^3\, a2^6\, b1^2\, b2^3\, c1\, c2$$
$$+ 5593104\, a1^3\, a2^6\, b1^2\, b2^2\, c1^3 - 2423520\, a1^3\, a2^6\, b1^2\, b2^2\, c1\, c2^2$$
$$- 2815776\, a1^3\, a2^6\, b1^2\, b2\, c1^3\, c2 + 6305904\, a1^3\, a2^6\, b1^2\, b2\, c1\, c2^3$$
$$+ 231336\, a1^3\, a2^6\, b1^2\, c1^5 - 3267216\, a1^3\, a2^6\, b1^2\, c1^3\, c2^2 - 1850904\, a1^3\, a2^6\, b1^2\, c1\, c2^4$$
$$+ 10800\, a1^3\, a2^6\, b1\, b2^6 + 54648\, a1^3\, a2^6\, b1\, b2^5\, c2 - 1850904\, a1^3\, a2^6\, b1\, b2^4\, c1^2$$
$$- 108648\, a1^3\, a2^6\, b1\, b2^4\, c2^2 + 6305904\, a1^3\, a2^6\, b1\, b2^3\, c1^2\, c2$$
$$- 82944\, a1^3\, a2^6\, b1\, b2^3\, c2^3 - 3522096\, a1^3\, a2^6\, b1\, b2^2\, c1^4$$
$$- 2423520\, a1^3\, a2^6\, b1\, b2^2\, c1^2\, c2^2 + 192240\, a1^3\, a2^6\, b1\, b2^2\, c2^4$$
$$+ 3961224\, a1^3\, a2^6\, b1\, b2\, c1^4\, c2 - 3727728\, a1^3\, a2^6\, b1\, b2\, c1^2\, c2^3$$
$$- 39096\, a1^3\, a2^6\, b1\, b2\, c2^5 - 109080\, a1^3\, a2^6\, b1\, c1^6 + 295704\, a1^3\, a2^6\, b1\, c1^4\, c2^2$$
$$+ 1696248\, a1^3\, a2^6\, b1\, c1^2\, c2^4 - 27000\, a1^3\, a2^6\, b1\, c2^6 - 27000\, a1^3\, a2^6\, b2^6\, c1$$
$$- 39096\, a1^3\, a2^6\, b2^5\, c1\, c2 + 503280\, a1^3\, a2^6\, b2^4\, c1^3 + 192240\, a1^3\, a2^6\, b2^4\, c1\, c2^2$$
$$- 2572560\, a1^3\, a2^6\, b2^3\, c1^3\, c2 - 82944\, a1^3\, a2^6\, b2^3\, c1\, c2^3 + 709560\, a1^3\, a2^6\, b2^2\, c1^5$$
$$+ 2248560\, a1^3\, a2^6\, b2^2\, c1^3\, c2^2 - 108648\, a1^3\, a2^6\, b2^2\, c1\, c2^4 - 1145448\, a1^3\, a2^6\, b2\, c1^5\, c2$$
$$+ 227664\, a1^3\, a2^6\, b2\, c1^3\, c2^3 + 54648\, a1^3\, a2^6\, b2\, c1\, c2^5 + 15984\, a1^3\, a2^6\, c1^7$$
$$+ 190944\, a1^3\, a2^6\, c1^5\, c2^2 - 406944\, a1^3\, a2^6\, c1^3\, c2^4 + 10800\, a1^3\, a2^6\, c1\, c2^6$$
$$+ 171288\, a1^3\, a2^5\, b1^7\, b2 - 267192\, a1^3\, a2^5\, b1^7\, c2 - 776520\, a1^3\, a2^5\, b1^6\, b2\, c1$$
$$+ 1431000\, a1^3\, a2^5\, b1^6\, c1\, c2 - 1369484\, a1^3\, a2^5\, b1^5\, b2^3 + 2962788\, a1^3\, a2^5\, b1^5\, b2^2\, c2$$
$$+ 1347192\, a1^3\, a2^5\, b1^5\, b2\, c1^2 + 473556\, a1^3\, a2^5\, b1^5\, b2\, c2^2 - 2735208\, a1^3\, a2^5\, b1^5\, c1^2\, c2$$
$$- 1576972\, a1^3\, a2^5\, b1^5\, c2^3 + 7288924\, a1^3\, a2^5\, b1^4\, b2^3\, c1$$
$$- 23640996\, a1^3\, a2^5\, b1^4\, b2^2\, c1\, c2 - 1724760\, a1^3\, a2^5\, b1^4\, b2\, c1^3$$
$$+ 11757324\, a1^3\, a2^5\, b1^4\, b2\, c1\, c2^2 + 2554200\, a1^3\, a2^5\, b1^4\, c1^3\, c2$$
$$+ 3125084\, a1^3\, a2^5\, b1^4\, c1\, c2^3 + 602208\, a1^3\, a2^5\, b1^3\, b2^5 - 569376\, a1^3\, a2^5\, b1^3\, b2^4\, c2$$
$$- 11110616\, a1^3\, a2^5\, b1^3\, b2^3\, c1^2 + 455760\, a1^3\, a2^5\, b1^3\, b2^3\, c2^2$$
$$+ 52935144\, a1^3\, a2^5\, b1^3\, b2^2\, c1^2\, c2 - 4952880\, a1^3\, a2^5\, b1^3\, b2^2\, c2^3$$
$$+ 2554200\, a1^3\, a2^5\, b1^3\, b2\, c1^4 - 44487816\, a1^3\, a2^5\, b1^3\, b2\, c1^2\, c2^2$$
$$+ 6335280\, a1^3\, a2^5\, b1^3\, b2\, c2^4 - 1724760\, a1^3\, a2^5\, b1^3\, c1^4\, c2$$
$$+ 3643064\, a1^3\, a2^5\, b1^3\, c1^2\, c2^3 - 1870992\, a1^3\, a2^5\, b1^3\, c2^5 - 2965248\, a1^3\, a2^5\, b1^2\, b2^5\, c1$$
$$+ 4648752\, a1^3\, a2^5\, b1^2\, b2^4\, c1\, c2 + 3643064\, a1^3\, a2^5\, b1^2\, b2^3\, c1^3$$

$$+ 1885680\, a1^3\, a2^5\, b1^2\, b2^3\, c1\, c2^2 - 44487816\, a1^3\, a2^5\, b1^2\, b2^2\, c1^3\, c2$$
$$+ 2961360\, a1^3\, a2^5\, b1^2\, b2^2\, c1\, c2^3 - 2735208\, a1^3\, a2^5\, b1^2\, b2\, c1^5$$
$$+ 52935144\, a1^3\, a2^5\, b1^2\, b2\, c1^3\, c2^2 - 10939536\, a1^3\, a2^5\, b1^2\, b2\, c1\, c2^4$$
$$+ 1347192\, a1^3\, a2^5\, b1^2\, c1^5\, c2 - 11110616\, a1^3\, a2^5\, b1^2\, c1^3\, c2^3$$
$$+ 4408992\, a1^3\, a2^5\, b1^2\, c1\, c2^5 - 8316\, a1^3\, a2^5\, b1\, b2^7 - 6588\, a1^3\, a2^5\, b1\, b2^6\, c2$$
$$+ 4408992\, a1^3\, a2^5\, b1\, b2^5\, c1^2 - 144180\, a1^3\, a2^5\, b1\, b2^5\, c2^2$$
$$- 10939536\, a1^3\, a2^5\, b1\, b2^4\, c1^2\, c2 + 457596\, a1^3\, a2^5\, b1\, b2^4\, c2^3$$
$$+ 3125084\, a1^3\, a2^5\, b1\, b2^3\, c1^4 + 2961360\, a1^3\, a2^5\, b1\, b2^3\, c1^2\, c2^2$$
$$- 333180\, a1^3\, a2^5\, b1\, b2^3\, c2^4 + 11757324\, a1^3\, a2^5\, b1\, b2^2\, c1^4\, c2$$
$$+ 1885680\, a1^3\, a2^5\, b1\, b2^2\, c1^2\, c2^3 - 30780\, a1^3\, a2^5\, b1\, b2^2\, c2^5$$
$$+ 1431000\, a1^3\, a2^5\, b1\, b2\, c1^6 - 23640996\, a1^3\, a2^5\, b1\, b2\, c1^4\, c2^2$$
$$+ 4648752\, a1^3\, a2^5\, b1\, b2\, c1^2\, c2^4 + 49356\, a1^3\, a2^5\, b1\, b2\, c2^6 - 776520\, a1^3\, a2^5\, b1\, c1^6\, c2$$
$$+ 7288924\, a1^3\, a2^5\, b1\, c1^4\, c2^3 - 2965248\, a1^3\, a2^5\, b1\, c1^2\, c2^5 + 16092\, a1^3\, a2^5\, b1\, c2^7$$
$$+ 16092\, a1^3\, a2^5\, b2^7\, c1 + 49356\, a1^3\, a2^5\, b2^6\, c1\, c2 - 1870992\, a1^3\, a2^5\, b2^5\, c1^3$$
$$- 30780\, a1^3\, a2^5\, b2^5\, c1\, c2^2 + 6335280\, a1^3\, a2^5\, b2^4\, c1^3\, c2 - 333180\, a1^3\, a2^5\, b2^4\, c1\, c2^3$$
$$- 1576972\, a1^3\, a2^5\, b2^3\, c1^5 - 4952880\, a1^3\, a2^5\, b2^3\, c1^3\, c2^2 + 457596\, a1^3\, a2^5\, b2^3\, c1\, c2^4$$
$$+ 473556\, a1^3\, a2^5\, b2^2\, c1^5\, c2 + 455760\, a1^3\, a2^5\, b2^2\, c1^3\, c2^3 - 144180\, a1^3\, a2^5\, b2^2\, c1\, c2^5$$
$$- 267192\, a1^3\, a2^5\, b2\, c1^7 + 2962788\, a1^3\, a2^5\, b2\, c1^5\, c2^2 - 569376\, a1^3\, a2^5\, b2\, c1^3\, c2^4$$
$$- 6588\, a1^3\, a2^5\, b2\, c1\, c2^6 + 171288\, a1^3\, a2^5\, c1^7\, c2 - 1369484\, a1^3\, a2^5\, c1^5\, c2^3$$
$$+ 602208\, a1^3\, a2^5\, c1^3\, c2^5 - 8316\, a1^3\, a2^5\, c1\, c2^7 - 2376\, a1^3\, a2^4\, b1^9$$
$$+ 16956\, a1^3\, a2^4\, b1^8\, c1 + 305856\, a1^3\, a2^4\, b1^7\, b2^2 - 1468152\, a1^3\, a2^4\, b1^7\, b2\, c2$$
$$- 69552\, a1^3\, a2^4\, b1^7\, c1^2 + 1402056\, a1^3\, a2^4\, b1^7\, c2^2 - 362664\, a1^3\, a2^4\, b1^6\, b2^2\, c1$$
$$+ 4607928\, a1^3\, a2^4\, b1^6\, b2\, c1\, c2 + 130680\, a1^3\, a2^4\, b1^6\, c1^3 - 5881464\, a1^3\, a2^4\, b1^6\, c1\, c2^2$$
$$- 110376\, a1^3\, a2^4\, b1^5\, b2^4 + 7288924\, a1^3\, a2^4\, b1^5\, b2^3\, c2 - 1350432\, a1^3\, a2^4\, b1^5\, b2^2\, c1^2$$
$$- 18340356\, a1^3\, a2^4\, b1^5\, b2^2\, c2^2 - 4035096\, a1^3\, a2^4\, b1^5\, b2\, c1^2\, c2$$
$$+ 11437644\, a1^3\, a2^4\, b1^5\, b2\, c2^3 - 75708\, a1^3\, a2^4\, b1^5\, c1^4 + 8855568\, a1^3\, a2^4\, b1^5\, c1^2\, c2^2$$
$$- 888196\, a1^3\, a2^4\, b1^5\, c2^4 - 6639088\, a1^3\, a2^4\, b1^4\, b2^4\, c1 - 9888268\, a1^3\, a2^4\, b1^4\, b2^3\, c1\, c2$$
$$+ 3864240\, a1^3\, a2^4\, b1^4\, b2^2\, c1^3 + 73934892\, a1^3\, a2^4\, b1^4\, b2^2\, c1\, c2^2$$
$$+ 895320\, a1^3\, a2^4\, b1^4\, b2\, c1^3\, c2 - 68885468\, a1^3\, a2^4\, b1^4\, b2\, c1\, c2^3$$
$$- 75708\, a1^3\, a2^4\, b1^4\, c1^5 - 6833160\, a1^3\, a2^4\, b1^4\, c1^3\, c2^2 + 13315012\, a1^3\, a2^4\, b1^4\, c1\, c2^4$$
$$- 406944\, a1^3\, a2^4\, b1^3\, b2^6 - 569376\, a1^3\, a2^4\, b1^3\, b2^5\, c2 + 26556352\, a1^3\, a2^4\, b1^3\, b2^4\, c1^2$$
$$+ 2846880\, a1^3\, a2^4\, b1^3\, b2^4\, c2^2 - 50672328\, a1^3\, a2^4\, b1^3\, b2^3\, c1^2\, c2$$
$$- 4555440\, a1^3\, a2^4\, b1^3\, b2^3\, c2^3 - 6833160\, a1^3\, a2^4\, b1^3\, b2^2\, c1^4$$
$$- 56329368\, a1^3\, a2^4\, b1^3\, b2^2\, c1^2\, c2^2 + 9607680\, a1^3\, a2^4\, b1^3\, b2^2\, c2^4$$

$$+ 895320\, a1^3\, a2^4\, b1^3\, b2\, c1^4\, c2 + 111699272\, a1^3\, a2^4\, b1^3\, b2\, c1^2\, c2^3$$
$$- 10178352\, a1^3\, a2^4\, b1^3\, b2\, c2^5 + 130680\, a1^3\, a2^4\, b1^3\, c1^6 + 3864240\, a1^3\, a2^4\, b1^3\, c1^4\, c2^2$$
$$- 32478648\, a1^3\, a2^4\, b1^3\, c1^2\, c2^4 + 3255552\, a1^3\, a2^4\, b1^3\, c2^6$$
$$+ 2999160\, a1^3\, a2^4\, b1^2\, b2^6\, c1 - 3168720\, a1^3\, a2^4\, b1^2\, b2^5\, c1\, c2$$
$$- 32478648\, a1^3\, a2^4\, b1^2\, b2^4\, c1^3 - 3700080\, a1^3\, a2^4\, b1^2\, b2^4\, c1\, c2^2$$
$$+ 111699272\, a1^3\, a2^4\, b1^2\, b2^3\, c1^3\, c2 + 1790640\, a1^3\, a2^4\, b1^2\, b2^3\, c1\, c2^3$$
$$+ 8855568\, a1^3\, a2^4\, b1^2\, b2^2\, c1^5 - 56329368\, a1^3\, a2^4\, b1^2\, b2^2\, c1^3\, c2^2$$
$$- 5044680\, a1^3\, a2^4\, b1^2\, b2^2\, c1\, c2^4 - 4035096\, a1^3\, a2^4\, b1^2\, b2\, c1^5\, c2$$
$$- 50672328\, a1^3\, a2^4\, b1^2\, b2\, c1^3\, c2^3 + 12957408\, a1^3\, a2^4\, b1^2\, b2\, c1\, c2^5$$
$$- 69552\, a1^3\, a2^4\, b1^2\, c1^7 - 1350432\, a1^3\, a2^4\, b1^2\, c1^5\, c2^2 + 26556352\, a1^3\, a2^4\, b1^2\, c1^3\, c2^4$$
$$- 5833728\, a1^3\, a2^4\, b1^2\, c1\, c2^6 + 11664\, a1^3\, a2^4\, b1\, b2^8 - 51732\, a1^3\, a2^4\, b1\, b2^7\, c2$$
$$- 5833728\, a1^3\, a2^4\, b1\, b2^6\, c1^2 + 197532\, a1^3\, a2^4\, b1\, b2^6\, c2^2$$
$$+ 12957408\, a1^3\, a2^4\, b1\, b2^5\, c1^2\, c2 - 154764\, a1^3\, a2^4\, b1\, b2^5\, c2^3$$
$$+ 13315012\, a1^3\, a2^4\, b1\, b2^4\, c1^4 - 5044680\, a1^3\, a2^4\, b1\, b2^4\, c1^2\, c2^2$$
$$- 378540\, a1^3\, a2^4\, b1\, b2^4\, c2^4 - 68885468\, a1^3\, a2^4\, b1\, b2^3\, c1^4\, c2$$
$$+ 1790640\, a1^3\, a2^4\, b1\, b2^3\, c1^2\, c2^3 + 636012\, a1^3\, a2^4\, b1\, b2^3\, c2^5$$
$$- 5881464\, a1^3\, a2^4\, b1\, b2^2\, c1^6 + 73934892\, a1^3\, a2^4\, b1\, b2^2\, c1^4\, c2^2$$
$$- 3700080\, a1^3\, a2^4\, b1\, b2^2\, c1^2\, c2^4 - 292356\, a1^3\, a2^4\, b1\, b2^2\, c2^6$$
$$+ 4607928\, a1^3\, a2^4\, b1\, b2\, c1^6\, c2 - 9888268\, a1^3\, a2^4\, b1\, b2\, c1^4\, c2^3$$
$$- 3168720\, a1^3\, a2^4\, b1\, b2\, c1^2\, c2^5 + 48276\, a1^3\, a2^4\, b1\, b2\, c2^7 + 16956\, a1^3\, a2^4\, b1\, c1^8$$
$$- 362664\, a1^3\, a2^4\, b1\, c1^6\, c2^2 - 6639088\, a1^3\, a2^4\, b1\, c1^4\, c2^4 + 2999160\, a1^3\, a2^4\, b1\, c1^2\, c2^6$$
$$- 16092\, a1^3\, a2^4\, b1\, c2^8 - 16092\, a1^3\, a2^4\, b2^8\, c1 + 48276\, a1^3\, a2^4\, b2^7\, c1\, c2$$
$$+ 3255552\, a1^3\, a2^4\, b2^6\, c1^3 - 292356\, a1^3\, a2^4\, b2^6\, c1\, c2^2 - 10178352\, a1^3\, a2^4\, b2^5\, c1^3\, c2$$
$$+ 636012\, a1^3\, a2^4\, b2^5\, c1\, c2^3 - 888196\, a1^3\, a2^4\, b2^4\, c1^5 + 9607680\, a1^3\, a2^4\, b2^4\, c1^3\, c2^2$$
$$- 378540\, a1^3\, a2^4\, b2^4\, c1\, c2^4 + 11437644\, a1^3\, a2^4\, b2^3\, c1^5\, c2$$
$$- 4555440\, a1^3\, a2^4\, b2^3\, c1^3\, c2^3 - 154764\, a1^3\, a2^4\, b2^3\, c1\, c2^5 + 1402056\, a1^3\, a2^4\, b2^2\, c1^7$$
$$- 18340356\, a1^3\, a2^4\, b2^2\, c1^5\, c2^2 + 2846880\, a1^3\, a2^4\, b2^2\, c1^3\, c2^4$$
$$+ 197532\, a1^3\, a2^4\, b2^2\, c1\, c2^6 - 1468152\, a1^3\, a2^4\, b2\, c1^7\, c2 + 7288924\, a1^3\, a2^4\, b2\, c1^5\, c2^3$$
$$- 569376\, a1^3\, a2^4\, b2\, c1^3\, c2^5 - 51732\, a1^3\, a2^4\, b2\, c1\, c2^7 - 2376\, a1^3\, a2^4\, c1^9$$
$$+ 305856\, a1^3\, a2^4\, c1^7\, c2^2 - 110376\, a1^3\, a2^4\, c1^5\, c2^4 - 406944\, a1^3\, a2^4\, c1^3\, c2^6$$
$$+ 11664\, a1^3\, a2^4\, c1\, c2^8 - 17496\, a1^3\, a2^3\, b1^9\, b2 + 27000\, a1^3\, a2^3\, b1^9\, c2$$
$$+ 110808\, a1^3\, a2^3\, b1^8\, b2\, c1 - 178632\, a1^3\, a2^3\, b1^8\, c1\, c2 + 200016\, a1^3\, a2^3\, b1^7\, b2^3$$
$$- 1823472\, a1^3\, a2^3\, b1^7\, b2^2\, c2 - 339768\, a1^3\, a2^3\, b1^7\, b2\, c1^2$$
$$+ 4759776\, a1^3\, a2^3\, b1^7\, b2\, c2^2 + 617976\, a1^3\, a2^3\, b1^7\, c1^2\, c2 - 3456000\, a1^3\, a2^3\, b1^7\, c2^3$$

$$+ 227664\, a1^3\, a2^3\, b1^6\, b2^3\, c1 + 767664\, a1^3\, a2^3\, b1^6\, b2^2\, c1\, c2$$
$$+ 529416\, a1^3\, a2^3\, b1^6\, b2\, c1^3 - 9983520\, a1^3\, a2^3\, b1^6\, b2\, c1\, c2^2$$
$$- 1052136\, a1^3\, a2^3\, b1^6\, c1^3\, c2 + 11169792\, a1^3\, a2^3\, b1^6\, c1\, c2^3 + 435024\, a1^3\, a2^3\, b1^5\, b2^5$$
$$- 1733616\, a1^3\, a2^3\, b1^5\, b2^4\, c2 + 455760\, a1^3\, a2^3\, b1^5\, b2^3\, c1^2$$
$$- 11110616\, a1^3\, a2^3\, b1^5\, b2^3\, c2^2 + 4034448\, a1^3\, a2^3\, b1^5\, b2^2\, c1^2\, c2$$
$$+ 35564424\, a1^3\, a2^3\, b1^5\, b2^2\, c2^3 - 639360\, a1^3\, a2^3\, b1^5\, b2\, c1^4$$
$$+ 4035744\, a1^3\, a2^3\, b1^5\, b2\, c1^2\, c2^2 - 29219856\, a1^3\, a2^3\, b1^5\, b2\, c2^4$$
$$+ 942192\, a1^3\, a2^3\, b1^5\, c1^4\, c2 - 13152672\, a1^3\, a2^3\, b1^5\, c1^2\, c2^3 + 6554528\, a1^3\, a2^3\, b1^5\, c2^5$$
$$- 1733616\, a1^3\, a2^3\, b1^4\, b2^5\, c1 + 35224432\, a1^3\, a2^3\, b1^4\, b2^4\, c1\, c2$$
$$- 4555440\, a1^3\, a2^3\, b1^4\, b2^3\, c1^3 - 50672328\, a1^3\, a2^3\, b1^4\, b2^3\, c1\, c2^2$$
$$- 1790640\, a1^3\, a2^3\, b1^4\, b2^2\, c1^3\, c2 - 47907528\, a1^3\, a2^3\, b1^4\, b2^2\, c1\, c2^3$$
$$+ 942192\, a1^3\, a2^3\, b1^4\, b2\, c1^5 + 92839232\, a1^3\, a2^3\, b1^4\, b2\, c1\, c2^4$$
$$- 639360\, a1^3\, a2^3\, b1^4\, c1^5\, c2 + 9110880\, a1^3\, a2^3\, b1^4\, c1^3\, c2^3$$
$$- 29219856\, a1^3\, a2^3\, b1^4\, c1\, c2^5 + 200016\, a1^3\, a2^3\, b1^3\, b2^7 + 227664\, a1^3\, a2^3\, b1^3\, b2^6\, c2$$
$$- 11110616\, a1^3\, a2^3\, b1^3\, b2^5\, c1^2 + 455760\, a1^3\, a2^3\, b1^3\, b2^5\, c2^2$$
$$- 50672328\, a1^3\, a2^3\, b1^3\, b2^4\, c1^2\, c2 - 4555440\, a1^3\, a2^3\, b1^3\, b2^4\, c2^3$$
$$+ 9110880\, a1^3\, a2^3\, b1^3\, b2^3\, c1^4 + 202689312\, a1^3\, a2^3\, b1^3\, b2^3\, c1^2\, c2^2$$
$$+ 9110880\, a1^3\, a2^3\, b1^3\, b2^3\, c2^4 - 127583488\, a1^3\, a2^3\, b1^3\, b2^2\, c1^2\, c2^3$$
$$- 13152672\, a1^3\, a2^3\, b1^3\, b2^2\, c2^5 - 1052136\, a1^3\, a2^3\, b1^3\, b2\, c1^6$$
$$- 1790640\, a1^3\, a2^3\, b1^3\, b2\, c1^4\, c2^2 - 47907528\, a1^3\, a2^3\, b1^3\, b2\, c1^2\, c2^4$$
$$+ 11169792\, a1^3\, a2^3\, b1^3\, b2\, c2^6 + 529416\, a1^3\, a2^3\, b1^3\, c1^6\, c2$$
$$- 4555440\, a1^3\, a2^3\, b1^3\, c1^4\, c2^3 + 35564424\, a1^3\, a2^3\, b1^3\, c1^2\, c2^5$$
$$- 3456000\, a1^3\, a2^3\, b1^3\, c2^7 - 1823472\, a1^3\, a2^3\, b1^2\, b2^7\, c1 + 767664\, a1^3\, a2^3\, b1^2\, b2^6\, c1\, c2$$
$$+ 35564424\, a1^3\, a2^3\, b1^2\, b2^5\, c1^3 + 4034448\, a1^3\, a2^3\, b1^2\, b2^5\, c1\, c2^2$$
$$- 47907528\, a1^3\, a2^3\, b1^2\, b2^4\, c1^3\, c2 - 1790640\, a1^3\, a2^3\, b1^2\, b2^4\, c1\, c2^3$$
$$- 13152672\, a1^3\, a2^3\, b1^2\, b2^3\, c1^5 - 127583488\, a1^3\, a2^3\, b1^2\, b2^3\, c1^3\, c2^2$$
$$+ 4035744\, a1^3\, a2^3\, b1^2\, b2^2\, c1^5\, c2 + 202689312\, a1^3\, a2^3\, b1^2\, b2^2\, c1^3\, c2^3$$
$$+ 4035744\, a1^3\, a2^3\, b1^2\, b2^2\, c1\, c2^5 + 617976\, a1^3\, a2^3\, b1^2\, b2\, c1^7$$
$$+ 4034448\, a1^3\, a2^3\, b1^2\, b2\, c1^5\, c2^2 - 50672328\, a1^3\, a2^3\, b1^2\, b2\, c1^3\, c2^4$$
$$- 9983520\, a1^3\, a2^3\, b1^2\, b2\, c1\, c2^6 - 339768\, a1^3\, a2^3\, b1^2\, c1^7\, c2$$
$$+ 455760\, a1^3\, a2^3\, b1^2\, c1^5\, c2^3 - 11110616\, a1^3\, a2^3\, b1^2\, c1^3\, c2^5$$
$$+ 4759776\, a1^3\, a2^3\, b1^2\, c1\, c2^7 - 17496\, a1^3\, a2^3\, b1\, b2^9 + 110808\, a1^3\, a2^3\, b1\, b2^8\, c2$$
$$+ 4759776\, a1^3\, a2^3\, b1\, b2^7\, c1^2 - 339768\, a1^3\, a2^3\, b1\, b2^7\, c2^2$$
$$- 9983520\, a1^3\, a2^3\, b1\, b2^6\, c1^2\, c2 + 529416\, a1^3\, a2^3\, b1\, b2^6\, c2^3$$

$$- 29219856\, a1^3\, a2^3\, b1\, b2^5\, c1^4 + 4035744\, a1^3\, a2^3\, b1\, b2^5\, c1^2\, c2^2$$
$$- 639360\, a1^3\, a2^3\, b1\, b2^5\, c2^4 + 92839232\, a1^3\, a2^3\, b1\, b2^4\, c1^4\, c2$$
$$+ 942192\, a1^3\, a2^3\, b1\, b2^4\, c2^5 + 11169792\, a1^3\, a2^3\, b1\, b2^3\, c1^6$$
$$- 47907528\, a1^3\, a2^3\, b1\, b2^3\, c1^4\, c2^2 - 1790640\, a1^3\, a2^3\, b1\, b2^3\, c1^2\, c2^4$$
$$- 1052136\, a1^3\, a2^3\, b1\, b2^3\, c2^6 - 9983520\, a1^3\, a2^3\, b1\, b2^2\, c1^6\, c2$$
$$- 50672328\, a1^3\, a2^3\, b1\, b2^2\, c1^4\, c2^3 + 4034448\, a1^3\, a2^3\, b1\, b2^2\, c1^2\, c2^5$$
$$+ 617976\, a1^3\, a2^3\, b1\, b2^2\, c2^7 - 178632\, a1^3\, a2^3\, b1\, b2\, c1^8 + 767664\, a1^3\, a2^3\, b1\, b2\, c1^6\, c2^2$$
$$+ 35224432\, a1^3\, a2^3\, b1\, b2\, c1^4\, c2^4 + 767664\, a1^3\, a2^3\, b1\, b2\, c1^2\, c2^6$$
$$- 178632\, a1^3\, a2^3\, b1\, b2\, c2^8 + 110808\, a1^3\, a2^3\, b1\, c1^8\, c2 + 227664\, a1^3\, a2^3\, b1\, c1^6\, c2^3$$
$$- 1733616\, a1^3\, a2^3\, b1\, c1^4\, c2^5 - 1823472\, a1^3\, a2^3\, b1\, c1^2\, c2^7 + 27000\, a1^3\, a2^3\, b1\, c2^9$$
$$+ 27000\, a1^3\, a2^3\, b2^9\, c1 - 178632\, a1^3\, a2^3\, b2^8\, c1\, c2 - 3456000\, a1^3\, a2^3\, b2^7\, c1^3$$
$$+ 617976\, a1^3\, a2^3\, b2^7\, c1\, c2^2 + 11169792\, a1^3\, a2^3\, b2^6\, c1^3\, c2$$
$$- 1052136\, a1^3\, a2^3\, b2^6\, c1\, c2^3 + 6554528\, a1^3\, a2^3\, b2^5\, c1^5 - 13152672\, a1^3\, a2^3\, b2^5\, c1^3\, c2^2$$
$$+ 942192\, a1^3\, a2^3\, b2^5\, c1\, c2^4 - 29219856\, a1^3\, a2^3\, b2^4\, c1^5\, c2$$
$$+ 9110880\, a1^3\, a2^3\, b2^4\, c1^3\, c2^3 - 639360\, a1^3\, a2^3\, b2^4\, c1\, c2^5 - 3456000\, a1^3\, a2^3\, b2^3\, c1^7$$
$$+ 35564424\, a1^3\, a2^3\, b2^3\, c1^5\, c2^2 - 4555440\, a1^3\, a2^3\, b2^3\, c1^3\, c2^4$$
$$+ 529416\, a1^3\, a2^3\, b2^3\, c1\, c2^6 + 4759776\, a1^3\, a2^3\, b2^2\, c1^7\, c2$$
$$- 11110616\, a1^3\, a2^3\, b2^2\, c1^5\, c2^3 + 455760\, a1^3\, a2^3\, b2^2\, c1^3\, c2^5$$
$$- 339768\, a1^3\, a2^3\, b2^2\, c1\, c2^7 + 27000\, a1^3\, a2^3\, b2\, c1^9 - 1823472\, a1^3\, a2^3\, b2\, c1^7\, c2^2$$
$$- 1733616\, a1^3\, a2^3\, b2\, c1^5\, c2^4 + 227664\, a1^3\, a2^3\, b2\, c1^3\, c2^6 + 110808\, a1^3\, a2^3\, b2\, c1\, c2^8$$
$$- 17496\, a1^3\, a2^3\, c1^9\, c2 + 200016\, a1^3\, a2^3\, c1^7\, c2^3 + 435024\, a1^3\, a2^3\, c1^5\, c2^5$$
$$+ 200016\, a1^3\, a2^3\, c1^3\, c2^7 - 17496\, a1^3\, a2^3\, c1\, c2^9 + 432\, a1^3\, a2^2\, b1^{10}\, c1$$
$$- 17496\, a1^3\, a2^2\, b1^9\, b2^2 + 87480\, a1^3\, a2^2\, b1^9\, b2\, c2 - 84240\, a1^3\, a2^2\, b1^9\, c2^2$$
$$+ 52488\, a1^3\, a2^2\, b1^8\, b2^2\, c1 - 437400\, a1^3\, a2^2\, b1^8\, b2\, c1\, c2 - 6480\, a1^3\, a2^2\, b1^8\, c1^3$$
$$+ 486648\, a1^3\, a2^2\, b1^8\, c1\, c2^2 - 40824\, a1^3\, a2^2\, b1^7\, b2^4 - 436752\, a1^3\, a2^2\, b1^7\, b2^3\, c2$$
$$+ 28512\, a1^3\, a2^2\, b1^7\, b2^2\, c1^2 + 3390336\, a1^3\, a2^2\, b1^7\, b2^2\, c2^2$$
$$+ 962280\, a1^3\, a2^2\, b1^7\, b2\, c1^2\, c2 - 7020000\, a1^3\, a2^2\, b1^7\, b2\, c2^3 + 15120\, a1^3\, a2^2\, b1^7\, c1^4$$
$$- 1408104\, a1^3\, a2^2\, b1^7\, c1^2\, c2^2 + 4347000\, a1^3\, a2^2\, b1^7\, c2^4 + 761184\, a1^3\, a2^2\, b1^6\, b2^4\, c1$$
$$- 3727728\, a1^3\, a2^2\, b1^6\, b2^3\, c1\, c2 - 487944\, a1^3\, a2^2\, b1^6\, b2^2\, c1^3$$
$$+ 4440096\, a1^3\, a2^2\, b1^6\, b2^2\, c1\, c2^2 - 612360\, a1^3\, a2^2\, b1^6\, b2\, c1^3\, c2$$
$$+ 7023456\, a1^3\, a2^2\, b1^6\, b2\, c1\, c2^3 - 9072\, a1^3\, a2^2\, b1^6\, c1^5 + 1884384\, a1^3\, a2^2\, b1^6\, c1^3\, c2^2$$
$$- 10133208\, a1^3\, a2^2\, b1^6\, c1\, c2^4 - 17496\, a1^3\, a2^2\, b1^5\, b2^6 - 1200096\, a1^3\, a2^2\, b1^5\, b2^5\, c2$$
$$- 813240\, a1^3\, a2^2\, b1^5\, b2^4\, c1^2 + 5600664\, a1^3\, a2^2\, b1^5\, b2^4\, c2^2$$
$$+ 1885680\, a1^3\, a2^2\, b1^5\, b2^3\, c1^2\, c2 + 3643064\, a1^3\, a2^2\, b1^5\, b2^3\, c2^3$$

$$+ 959040\, a1^3\, a2^2\, b1^5\, b2^2\, c1^4 - 8880192\, a1^3\, a2^2\, b1^5\, b2^2\, c1^2\, c2^2$$
$$- 29405616\, a1^3\, a2^2\, b1^5\, b2^2\, c2^4 + 1884384\, a1^3\, a2^2\, b1^5\, b2\, c1^2\, c2^3$$
$$+ 29294160\, a1^3\, a2^2\, b1^5\, b2\, c2^5 - 9072\, a1^3\, a2^2\, b1^5\, c1^6 - 1413288\, a1^3\, a2^2\, b1^5\, c1^4\, c2^2$$
$$+ 9393408\, a1^3\, a2^2\, b1^5\, c1^2\, c2^4 - 8159624\, a1^3\, a2^2\, b1^5\, c2^6 + 1337904\, a1^3\, a2^2\, b1^4\, b2^6\, c1$$
$$- 2826576\, a1^3\, a2^2\, b1^4\, b2^5\, c1\, c2 + 2968920\, a1^3\, a2^2\, b1^4\, b2^4\, c1^3$$
$$- 45770208\, a1^3\, a2^2\, b1^4\, b2^4\, c1\, c2^2 + 1790640\, a1^3\, a2^2\, b1^4\, b2^3\, c1^3\, c2$$
$$+ 111699272\, a1^3\, a2^2\, b1^4\, b2^3\, c1\, c2^3 - 1413288\, a1^3\, a2^2\, b1^4\, b2^2\, c1^5$$
$$- 47843808\, a1^3\, a2^2\, b1^4\, b2^2\, c1\, c2^4 - 36566016\, a1^3\, a2^2\, b1^4\, b2\, c1\, c2^5$$
$$+ 15120\, a1^3\, a2^2\, b1^4\, c1^7 + 959040\, a1^3\, a2^2\, b1^4\, c1^5\, c2^2 - 6833160\, a1^3\, a2^2\, b1^4\, c1^3\, c2^4$$
$$+ 20704264\, a1^3\, a2^2\, b1^4\, c1\, c2^6 + 17496\, a1^3\, a2^2\, b1^3\, b2^8 - 740016\, a1^3\, a2^2\, b1^3\, b2^7\, c2$$
$$- 3267216\, a1^3\, a2^2\, b1^3\, b2^6\, c1^2 + 2248560\, a1^3\, a2^2\, b1^3\, b2^6\, c2^2$$
$$+ 52935144\, a1^3\, a2^2\, b1^3\, b2^5\, c1^2\, c2 - 4952880\, a1^3\, a2^2\, b1^3\, b2^5\, c2^3$$
$$- 6833160\, a1^3\, a2^2\, b1^3\, b2^4\, c1^4 - 56329368\, a1^3\, a2^2\, b1^3\, b2^4\, c1^2\, c2^2$$
$$+ 9607680\, a1^3\, a2^2\, b1^3\, b2^4\, c2^4 - 127583488\, a1^3\, a2^2\, b1^3\, b2^3\, c1^2\, c2^3$$
$$- 13152672\, a1^3\, a2^2\, b1^3\, b2^3\, c2^5 + 1884384\, a1^3\, a2^2\, b1^3\, b2^2\, c1^6$$
$$+ 191375232\, a1^3\, a2^2\, b1^3\, b2^2\, c1^2\, c2^4 + 13152672\, a1^3\, a2^2\, b1^3\, b2^2\, c2^6$$
$$- 612360\, a1^3\, a2^2\, b1^3\, b2\, c1^6\, c2 + 1790640\, a1^3\, a2^2\, b1^3\, b2\, c1^4\, c2^3$$
$$- 47805576\, a1^3\, a2^2\, b1^3\, b2\, c1^2\, c2^5 - 8544960\, a1^3\, a2^2\, b1^3\, b2\, c2^7 - 6480\, a1^3\, a2^2\, b1^3\, c1^8$$
$$- 487944\, a1^3\, a2^2\, b1^3\, c1^6\, c2^2 + 2968920\, a1^3\, a2^2\, b1^3\, c1^4\, c2^4$$
$$- 9814616\, a1^3\, a2^2\, b1^3\, c1^2\, c2^6 + 2364120\, a1^3\, a2^2\, b1^3\, c2^8 + 600048\, a1^3\, a2^2\, b1^2\, b2^8\, c1$$
$$+ 670032\, a1^3\, a2^2\, b1^2\, b2^7\, c1\, c2 - 9814616\, a1^3\, a2^2\, b1^2\, b2^6\, c1^3$$
$$- 3496608\, a1^3\, a2^2\, b1^2\, b2^6\, c1\, c2^2 - 47805576\, a1^3\, a2^2\, b1^2\, b2^5\, c1^3\, c2$$
$$+ 2958768\, a1^3\, a2^2\, b1^2\, b2^5\, c1\, c2^3 + 9393408\, a1^3\, a2^2\, b1^2\, b2^4\, c1^5$$
$$+ 191375232\, a1^3\, a2^2\, b1^2\, b2^4\, c1^3\, c2^2 - 2355480\, a1^3\, a2^2\, b1^2\, b2^4\, c1\, c2^4$$
$$+ 1884384\, a1^3\, a2^2\, b1^2\, b2^3\, c1^5\, c2 - 127583488\, a1^3\, a2^2\, b1^2\, b2^3\, c1^3\, c2^3$$
$$+ 1884384\, a1^3\, a2^2\, b1^2\, b2^3\, c1\, c2^5 - 1408104\, a1^3\, a2^2\, b1^2\, b2^2\, c1^7$$
$$- 8880192\, a1^3\, a2^2\, b1^2\, b2^2\, c1^5\, c2^2 - 56329368\, a1^3\, a2^2\, b1^2\, b2^2\, c1^3\, c2^4$$
$$- 2960064\, a1^3\, a2^2\, b1^2\, b2^2\, c1\, c2^6 + 962280\, a1^3\, a2^2\, b1^2\, b2\, c1^7\, c2$$
$$+ 1885680\, a1^3\, a2^2\, b1^2\, b2\, c1^5\, c2^3 + 52935144\, a1^3\, a2^2\, b1^2\, b2\, c1^3\, c2^5$$
$$+ 5124384\, a1^3\, a2^2\, b1^2\, b2\, c1\, c2^7 + 28512\, a1^3\, a2^2\, b1^2\, c1^7\, c2^2$$
$$- 813240\, a1^3\, a2^2\, b1^2\, c1^5\, c2^4 - 3267216\, a1^3\, a2^2\, b1^2\, c1^3\, c2^6$$
$$- 2425464\, a1^3\, a2^2\, b1^2\, c1\, c2^8 + 11664\, a1^3\, a2^2\, b1\, b2^{10} - 64152\, a1^3\, a2^2\, b1\, b2^9\, c2$$
$$- 2425464\, a1^3\, a2^2\, b1\, b2^8\, c1^2 + 122472\, a1^3\, a2^2\, b1\, b2^8\, c2^2$$
$$+ 5124384\, a1^3\, a2^2\, b1\, b2^7\, c1^2\, c2 + 13176\, a1^3\, a2^2\, b1\, b2^7\, c2^3$$

$$+ 20704264\, a1^3\, a2^2\, b1\, b2^6\, c1^4 - 2960064\, a1^3\, a2^2\, b1\, b2^6\, c1^2\, c2^2$$
$$- 420120\, a1^3\, a2^2\, b1\, b2^6\, c2^4 - 36566016\, a1^3\, a2^2\, b1\, b2^5\, c1^4\, c2$$
$$+ 1884384\, a1^3\, a2^2\, b1\, b2^5\, c1^2\, c2^3 + 887760\, a1^3\, a2^2\, b1\, b2^5\, c2^5$$
$$- 10133208\, a1^3\, a2^2\, b1\, b2^4\, c1^6 - 47843808\, a1^3\, a2^2\, b1\, b2^4\, c1^4\, c2^2$$
$$- 2355480\, a1^3\, a2^2\, b1\, b2^4\, c1^2\, c2^4 - 1210896\, a1^3\, a2^2\, b1\, b2^4\, c2^6$$
$$+ 7023456\, a1^3\, a2^2\, b1\, b2^3\, c1^6\, c2 + 111699272\, a1^3\, a2^2\, b1\, b2^3\, c1^4\, c2^3$$
$$+ 2958768\, a1^3\, a2^2\, b1\, b2^3\, c1^2\, c2^5 + 1142856\, a1^3\, a2^2\, b1\, b2^3\, c2^7$$
$$+ 486648\, a1^3\, a2^2\, b1\, b2^2\, c1^8 + 4440096\, a1^3\, a2^2\, b1\, b2^2\, c1^6\, c2^2$$
$$- 45770208\, a1^3\, a2^2\, b1\, b2^2\, c1^4\, c2^4 - 3496608\, a1^3\, a2^2\, b1\, b2^2\, c1^2\, c2^6$$
$$- 660312\, a1^3\, a2^2\, b1\, b2^2\, c2^8 - 437400\, a1^3\, a2^2\, b1\, b2\, c1^8\, c2$$
$$- 3727728\, a1^3\, a2^2\, b1\, b2\, c1^6\, c2^3 - 2826576\, a1^3\, a2^2\, b1\, b2\, c1^4\, c2^5$$
$$+ 670032\, a1^3\, a2^2\, b1\, b2\, c1^2\, c2^7 + 206280\, a1^3\, a2^2\, b1\, b2\, c2^9 + 432\, a1^3\, a2^2\, b1\, c1^{10}$$
$$+ 52488\, a1^3\, a2^2\, b1\, c1^8\, c2^2 + 761184\, a1^3\, a2^2\, b1\, c1^6\, c2^4 + 1337904\, a1^3\, a2^2\, b1\, c1^4\, c2^6$$
$$+ 600048\, a1^3\, a2^2\, b1\, c1^2\, c2^8 - 28728\, a1^3\, a2^2\, b1\, c2^{10} - 28728\, a1^3\, a2^2\, b2^{10}\, c1$$
$$+ 206280\, a1^3\, a2^2\, b2^9\, c1\, c2 + 2364120\, a1^3\, a2^2\, b2^8\, c1^3 - 660312\, a1^3\, a2^2\, b2^8\, c1\, c2^2$$
$$- 8544960\, a1^3\, a2^2\, b2^7\, c1^3\, c2 + 1142856\, a1^3\, a2^2\, b2^7\, c1\, c2^3 - 8159624\, a1^3\, a2^2\, b2^6\, c1^5$$
$$+ 13152672\, a1^3\, a2^2\, b2^6\, c1^3\, c2^2 - 1210896\, a1^3\, a2^2\, b2^6\, c1\, c2^4$$
$$+ 29294160\, a1^3\, a2^2\, b2^5\, c1^5\, c2 - 13152672\, a1^3\, a2^2\, b2^5\, c1^3\, c2^3$$
$$+ 887760\, a1^3\, a2^2\, b2^5\, c1\, c2^5 + 4347000\, a1^3\, a2^2\, b2^4\, c1^7 - 29405616\, a1^3\, a2^2\, b2^4\, c1^5\, c2^2$$
$$+ 9607680\, a1^3\, a2^2\, b2^4\, c1^3\, c2^4 - 420120\, a1^3\, a2^2\, b2^4\, c1\, c2^6$$
$$- 7020000\, a1^3\, a2^2\, b2^3\, c1^7\, c2 + 3643064\, a1^3\, a2^2\, b2^3\, c1^5\, c2^3$$
$$- 4952880\, a1^3\, a2^2\, b2^3\, c1^3\, c2^5 + 13176\, a1^3\, a2^2\, b2^3\, c1\, c2^7 - 84240\, a1^3\, a2^2\, b2^2\, c1^9$$
$$+ 3390336\, a1^3\, a2^2\, b2^2\, c1^7\, c2^2 + 5600664\, a1^3\, a2^2\, b2^2\, c1^5\, c2^4$$
$$+ 2248560\, a1^3\, a2^2\, b2^2\, c1^3\, c2^6 + 122472\, a1^3\, a2^2\, b2^2\, c1\, c2^8 + 87480\, a1^3\, a2^2\, b2\, c1^9\, c2$$
$$- 436752\, a1^3\, a2^2\, b2\, c1^7\, c2^3 - 1200096\, a1^3\, a2^2\, b2\, c1^5\, c2^5 - 740016\, a1^3\, a2^2\, b2\, c1^3\, c2^7$$
$$- 64152\, a1^3\, a2^2\, b2\, c1\, c2^9 - 17496\, a1^3\, a2^2\, c1^9\, c2^2 - 40824\, a1^3\, a2^2\, c1^7\, c2^4$$
$$- 17496\, a1^3\, a2^2\, c1^5\, c2^6 + 17496\, a1^3\, a2^2\, c1^3\, c2^8 + 11664\, a1^3\, a2^2\, c1\, c2^{10}$$
$$- 864\, a1^3\, a2\, b1^{10}\, c1\, c2 - 2916\, a1^3\, a2\, b1^9\, b2^3 + 43740\, a1^3\, a2\, b1^9\, b2^2\, c2$$
$$+ 2160\, a1^3\, a2\, b1^9\, b2\, c1^2 - 131220\, a1^3\, a2\, b1^9\, b2\, c2^2 - 2160\, a1^3\, a2\, b1^9\, c1^2\, c2$$
$$+ 99900\, a1^3\, a2\, b1^9\, c2^3 - 20412\, a1^3\, a2\, b1^8\, b2^3\, c1 - 43740\, a1^3\, a2\, b1^8\, b2^2\, c1\, c2$$
$$- 2160\, a1^3\, a2\, b1^8\, b2\, c1^3 + 481140\, a1^3\, a2\, b1^8\, b2\, c1\, c2^2 + 15120\, a1^3\, a2\, b1^8\, c1^3\, c2$$
$$- 484812\, a1^3\, a2\, b1^8\, c1\, c2^3 - 11664\, a1^3\, a2\, b1^7\, b2^5 + 139968\, a1^3\, a2\, b1^7\, b2^4\, c2$$
$$+ 97632\, a1^3\, a2\, b1^7\, b2^3\, c1^2 + 156816\, a1^3\, a2\, b1^7\, b2^3\, c2^2 - 349920\, a1^3\, a2\, b1^7\, b2^2\, c1^2\, c2$$
$$- 2417040\, a1^3\, a2\, b1^7\, b2^2\, c2^3 - 15120\, a1^3\, a2\, b1^7\, b2\, c1^4 - 612360\, a1^3\, a2\, b1^7\, b2\, c1^2\, c2^2$$

$$+ 4718520\, a1^3\, a2\, b1^7\, b2\, c2^4 - 15120\, a1^3\, a2\, b1^7\, c1^4\, c2 + 1142856\, a1^3\, a2\, b1^7\, c1^2\, c2^3$$
$$- 2682504\, a1^3\, a2\, b1^7\, c2^5 - 46656\, a1^3\, a2\, b1^6\, b2^5\, c1 - 1289088\, a1^3\, a2\, b1^6\, b2^4\, c1\, c2$$
$$- 82944\, a1^3\, a2\, b1^6\, b2^3\, c1^3 + 6305904\, a1^3\, a2\, b1^6\, b2^3\, c1\, c2^2$$
$$+ 1224720\, a1^3\, a2\, b1^6\, b2^2\, c1^3\, c2 - 9265968\, a1^3\, a2\, b1^6\, b2^2\, c1\, c2^3$$
$$+ 33264\, a1^3\, a2\, b1^6\, b2\, c1^5 - 612360\, a1^3\, a2\, b1^6\, b2\, c1^3\, c2^2$$
$$+ 1121256\, a1^3\, a2\, b1^6\, b2\, c1\, c2^4 - 15120\, a1^3\, a2\, b1^6\, c1^5\, c2 - 1052136\, a1^3\, a2\, b1^6\, c1^3\, c2^3$$
$$+ 3829032\, a1^3\, a2\, b1^6\, c1\, c2^5 - 17496\, a1^3\, a2\, b1^5\, b2^7 + 157464\, a1^3\, a2\, b1^5\, b2^6\, c2$$
$$+ 810000\, a1^3\, a2\, b1^5\, b2^5\, c1^2 + 727704\, a1^3\, a2\, b1^5\, b2^5\, c2^2$$
$$- 2423520\, a1^3\, a2\, b1^5\, b2^4\, c1^2\, c2 - 4946616\, a1^3\, a2\, b1^5\, b2^4\, c2^3$$
$$- 333180\, a1^3\, a2\, b1^5\, b2^3\, c1^4 + 2961360\, a1^3\, a2\, b1^5\, b2^3\, c1^2\, c2^2$$
$$+ 3125084\, a1^3\, a2\, b1^5\, b2^3\, c2^4 - 918540\, a1^3\, a2\, b1^5\, b2^2\, c1^4\, c2$$
$$+ 2958768\, a1^3\, a2\, b1^5\, b2^2\, c1^2\, c2^3 + 9887196\, a1^3\, a2\, b1^5\, b2^2\, c2^5$$
$$- 15120\, a1^3\, a2\, b1^5\, b2\, c1^6 + 918540\, a1^3\, a2\, b1^5\, b2\, c1^4\, c2^2$$
$$- 2421576\, a1^3\, a2\, b1^5\, b2\, c1^2\, c2^4 - 13060452\, a1^3\, a2\, b1^5\, b2\, c2^6$$
$$+ 33264\, a1^3\, a2\, b1^5\, c1^6\, c2 + 636012\, a1^3\, a2\, b1^5\, c1^4\, c2^3 - 3273048\, a1^3\, a2\, b1^5\, c1^2\, c2^5$$
$$+ 4197100\, a1^3\, a2\, b1^5\, c2^7 - 17496\, a1^3\, a2\, b1^4\, b2^7\, c1 - 2553336\, a1^3\, a2\, b1^4\, b2^6\, c1\, c2$$
$$- 829440\, a1^3\, a2\, b1^4\, b2^5\, c1^3 + 10486584\, a1^3\, a2\, b1^4\, b2^5\, c1\, c2^2$$
$$- 1790640\, a1^3\, a2\, b1^4\, b2^4\, c1^3\, c2 + 13035832\, a1^3\, a2\, b1^4\, b2^4\, c1\, c2^3$$
$$+ 636012\, a1^3\, a2\, b1^4\, b2^3\, c1^5 + 1790640\, a1^3\, a2\, b1^4\, b2^3\, c1^3\, c2^2$$
$$- 68885468\, a1^3\, a2\, b1^4\, b2^3\, c1\, c2^4 + 918540\, a1^3\, a2\, b1^4\, b2^2\, c1^5\, c2$$
$$- 1790640\, a1^3\, a2\, b1^4\, b2^2\, c1^3\, c2^3 + 60468804\, a1^3\, a2\, b1^4\, b2^2\, c1\, c2^5$$
$$- 15120\, a1^3\, a2\, b1^4\, b2\, c1^7 - 918540\, a1^3\, a2\, b1^4\, b2\, c1^5\, c2^2$$
$$+ 895320\, a1^3\, a2\, b1^4\, b2\, c1^3\, c2^4 - 7967596\, a1^3\, a2\, b1^4\, b2\, c1\, c2^6$$
$$- 15120\, a1^3\, a2\, b1^4\, c1^7\, c2 - 333180\, a1^3\, a2\, b1^4\, c1^5\, c2^3 + 2554200\, a1^3\, a2\, b1^4\, c1^3\, c2^5$$
$$- 4777276\, a1^3\, a2\, b1^4\, c1\, c2^7 - 11664\, a1^3\, a2\, b1^3\, b2^9 + 69984\, a1^3\, a2\, b1^3\, b2^8\, c2$$
$$+ 1335744\, a1^3\, a2\, b1^3\, b2^7\, c1^2 + 460080\, a1^3\, a2\, b1^3\, b2^7\, c2^2$$
$$- 2815776\, a1^3\, a2\, b1^3\, b2^6\, c1^2\, c2 - 2572560\, a1^3\, a2\, b1^3\, b2^6\, c2^3$$
$$+ 2554200\, a1^3\, a2\, b1^3\, b2^5\, c1^4 - 44487816\, a1^3\, a2\, b1^3\, b2^5\, c1^2\, c2^2$$
$$+ 6335280\, a1^3\, a2\, b1^3\, b2^5\, c2^4 + 895320\, a1^3\, a2\, b1^3\, b2^4\, c1^4\, c2$$
$$+ 111699272\, a1^3\, a2\, b1^3\, b2^4\, c1^2\, c2^3 - 10178352\, a1^3\, a2\, b1^3\, b2^4\, c2^5$$
$$- 1052136\, a1^3\, a2\, b1^3\, b2^3\, c1^6 - 1790640\, a1^3\, a2\, b1^3\, b2^3\, c1^4\, c2^2$$
$$- 47907528\, a1^3\, a2\, b1^3\, b2^3\, c1^2\, c2^4 + 11169792\, a1^3\, a2\, b1^3\, b2^3\, c2^6$$
$$- 612360\, a1^3\, a2\, b1^3\, b2^2\, c1^6\, c2 + 1790640\, a1^3\, a2\, b1^3\, b2^2\, c1^4\, c2^3$$
$$- 47805576\, a1^3\, a2\, b1^3\, b2^2\, c1^2\, c2^5 - 8544960\, a1^3\, a2\, b1^3\, b2^2\, c2^7$$

$$+ 15120\, a1^3\, a2\, b1^3\, b2\, c1^8 + 1224720\, a1^3\, a2\, b1^3\, b2\, c1^6\, c2^2$$
$$- 1790640\, a1^3\, a2\, b1^3\, b2\, c1^4\, c2^4 + 31870384\, a1^3\, a2\, b1^3\, b2\, c1^2\, c2^6$$
$$+ 4272480\, a1^3\, a2\, b1^3\, b2\, c2^8 - 2160\, a1^3\, a2\, b1^3\, c1^8\, c2 - 82944\, a1^3\, a2\, b1^3\, c1^6\, c2^3$$
$$- 829440\, a1^3\, a2\, b1^3\, c1^4\, c2^5 - 1748736\, a1^3\, a2\, b1^3\, c1^2\, c2^7 - 1000080\, a1^3\, a2\, b1^3\, c2^9$$
$$+ 23328\, a1^3\, a2\, b1^2\, b2^9\, c1 - 1410048\, a1^3\, a2\, b1^2\, b2^8\, c1\, c2$$
$$- 1748736\, a1^3\, a2\, b1^2\, b2^7\, c1^3 + 4970160\, a1^3\, a2\, b1^2\, b2^7\, c1\, c2^2$$
$$+ 31870384\, a1^3\, a2\, b1^2\, b2^6\, c1^3\, c2 - 9265968\, a1^3\, a2\, b1^2\, b2^6\, c1\, c2^3$$
$$- 3273048\, a1^3\, a2\, b1^2\, b2^5\, c1^5 - 47805576\, a1^3\, a2\, b1^2\, b2^5\, c1^3\, c2^2$$
$$+ 12419568\, a1^3\, a2\, b1^2\, b2^5\, c1\, c2^4 - 2421576\, a1^3\, a2\, b1^2\, b2^4\, c1^5\, c2$$
$$- 47907528\, a1^3\, a2\, b1^2\, b2^4\, c1^3\, c2^3 - 11477376\, a1^3\, a2\, b1^2\, b2^4\, c1\, c2^5$$
$$+ 1142856\, a1^3\, a2\, b1^2\, b2^3\, c1^7 + 2958768\, a1^3\, a2\, b1^2\, b2^3\, c1^5\, c2^2$$
$$+ 111699272\, a1^3\, a2\, b1^2\, b2^3\, c1^3\, c2^4 + 7023456\, a1^3\, a2\, b1^2\, b2^3\, c1\, c2^6$$
$$- 612360\, a1^3\, a2\, b1^2\, b2^2\, c1^7\, c2 + 2961360\, a1^3\, a2\, b1^2\, b2^2\, c1^5\, c2^3$$
$$- 44487816\, a1^3\, a2\, b1^2\, b2^2\, c1^3\, c2^5 - 2164320\, a1^3\, a2\, b1^2\, b2^2\, c1\, c2^7$$
$$- 2160\, a1^3\, a2\, b1^2\, b2\, c1^9 - 349920\, a1^3\, a2\, b1^2\, b2\, c1^7\, c2^2$$
$$- 2423520\, a1^3\, a2\, b1^2\, b2\, c1^5\, c2^4 - 2815776\, a1^3\, a2\, b1^2\, b2\, c1^3\, c2^6$$
$$- 740016\, a1^3\, a2\, b1^2\, b2\, c1\, c2^8 + 2160\, a1^3\, a2\, b1^2\, c1^9\, c2 + 97632\, a1^3\, a2\, b1^2\, c1^7\, c2^3$$
$$+ 810000\, a1^3\, a2\, b1^2\, c1^5\, c2^5 + 1335744\, a1^3\, a2\, b1^2\, c1^3\, c2^7 + 621216\, a1^3\, a2\, b1^2\, c1\, c2^9$$
$$- 2916\, a1^3\, a2\, b1\, b2^{11} + 8748\, a1^3\, a2\, b1\, b2^{10}\, c2 + 621216\, a1^3\, a2\, b1\, b2^9\, c1^2$$
$$+ 20412\, a1^3\, a2\, b1\, b2^9\, c2^2 - 740016\, a1^3\, a2\, b1\, b2^8\, c1^2\, c2 - 142884\, a1^3\, a2\, b1\, b2^8\, c2^3$$
$$- 4777276\, a1^3\, a2\, b1\, b2^7\, c1^4 - 2164320\, a1^3\, a2\, b1\, b2^7\, c1^2\, c2^2$$
$$+ 279180\, a1^3\, a2\, b1\, b2^7\, c2^4 - 7967596\, a1^3\, a2\, b1\, b2^6\, c1^4\, c2$$
$$+ 7023456\, a1^3\, a2\, b1\, b2^6\, c1^2\, c2^3 - 222804\, a1^3\, a2\, b1\, b2^6\, c2^5$$
$$+ 3829032\, a1^3\, a2\, b1\, b2^5\, c1^6 + 60468804\, a1^3\, a2\, b1\, b2^5\, c1^4\, c2^2$$
$$- 11477376\, a1^3\, a2\, b1\, b2^5\, c1^2\, c2^4 - 73116\, a1^3\, a2\, b1\, b2^5\, c2^6$$
$$+ 1121256\, a1^3\, a2\, b1\, b2^4\, c1^6\, c2 - 68885468\, a1^3\, a2\, b1\, b2^4\, c1^4\, c2^3$$
$$+ 12419568\, a1^3\, a2\, b1\, b2^4\, c1^2\, c2^5 + 398196\, a1^3\, a2\, b1\, b2^4\, c2^7$$
$$- 484812\, a1^3\, a2\, b1\, b2^3\, c1^8 - 9265968\, a1^3\, a2\, b1\, b2^3\, c1^6\, c2^2$$
$$+ 13035832\, a1^3\, a2\, b1\, b2^3\, c1^4\, c2^4 - 9265968\, a1^3\, a2\, b1\, b2^3\, c1^2\, c2^6$$
$$- 484812\, a1^3\, a2\, b1\, b2^3\, c2^8 + 481140\, a1^3\, a2\, b1\, b2^2\, c1^8\, c2$$
$$+ 6305904\, a1^3\, a2\, b1\, b2^2\, c1^6\, c2^3 + 10486584\, a1^3\, a2\, b1\, b2^2\, c1^4\, c2^5$$
$$+ 4970160\, a1^3\, a2\, b1\, b2^2\, c1^2\, c2^7 + 308340\, a1^3\, a2\, b1\, b2^2\, c2^9 - 864\, a1^3\, a2\, b1\, b2\, c1^{10}$$
$$- 43740\, a1^3\, a2\, b1\, b2\, c1^8\, c2^2 - 1289088\, a1^3\, a2\, b1\, b2\, c1^6\, c2^4$$
$$- 2553336\, a1^3\, a2\, b1\, b2\, c1^4\, c2^6 - 1410048\, a1^3\, a2\, b1\, b2\, c1^2\, c2^8$$

$$- 102924\, a1^3\, a2\, b1\, b2\, c2^{10} - 20412\, a1^3\, a2\, b1\, c1^8\, c2^3 - 46656\, a1^3\, a2\, b1\, c1^6\, c2^5$$
$$- 17496\, a1^3\, a2\, b1\, c1^4\, c2^7 + 23328\, a1^3\, a2\, b1\, c1^2\, c2^9 + 14580\, a1^3\, a2\, b1\, c2^{11}$$
$$+ 14580\, a1^3\, a2\, b2^{11}\, c1 - 102924\, a1^3\, a2\, b2^{10}\, c1\, c2 - 1000080\, a1^3\, a2\, b2^9\, c1^3$$
$$+ 308340\, a1^3\, a2\, b2^9\, c1\, c2^2 + 4272480\, a1^3\, a2\, b2^8\, c1^3\, c2 - 484812\, a1^3\, a2\, b2^8\, c1\, c2^3$$
$$+ 4197100\, a1^3\, a2\, b2^7\, c1^5 - 8544960\, a1^3\, a2\, b2^7\, c1^3\, c2^2 + 398196\, a1^3\, a2\, b2^7\, c1\, c2^4$$
$$- 13060452\, a1^3\, a2\, b2^6\, c1^5\, c2 + 11169792\, a1^3\, a2\, b2^6\, c1^3\, c2^3 - 73116\, a1^3\, a2\, b2^6\, c1\, c2^5$$
$$- 2682504\, a1^3\, a2\, b2^5\, c1^7 + 9887196\, a1^3\, a2\, b2^5\, c1^5\, c2^2 - 10178352\, a1^3\, a2\, b2^5\, c1^3\, c2^4$$
$$- 222804\, a1^3\, a2\, b2^5\, c1\, c2^6 + 4718520\, a1^3\, a2\, b2^4\, c1^7\, c2 + 3125084\, a1^3\, a2\, b2^4\, c1^5\, c2^3$$
$$+ 6335280\, a1^3\, a2\, b2^4\, c1^3\, c2^5 + 279180\, a1^3\, a2\, b2^4\, c1\, c2^7 + 99900\, a1^3\, a2\, b2^3\, c1^9$$
$$- 2417040\, a1^3\, a2\, b2^3\, c1^7\, c2^2 - 4946616\, a1^3\, a2\, b2^3\, c1^5\, c2^4$$
$$- 2572560\, a1^3\, a2\, b2^3\, c1^3\, c2^6 - 142884\, a1^3\, a2\, b2^3\, c1\, c2^8 - 131220\, a1^3\, a2\, b2^2\, c1^9\, c2$$
$$+ 156816\, a1^3\, a2\, b2^2\, c1^7\, c2^3 + 727704\, a1^3\, a2\, b2^2\, c1^5\, c2^5 + 460080\, a1^3\, a2\, b2^2\, c1^3\, c2^7$$
$$+ 20412\, a1^3\, a2\, b2^2\, c1\, c2^9 + 43740\, a1^3\, a2\, b2\, c1^9\, c2^2 + 139968\, a1^3\, a2\, b2\, c1^7\, c2^4$$
$$+ 157464\, a1^3\, a2\, b2\, c1^5\, c2^6 + 69984\, a1^3\, a2\, b2\, c1^3\, c2^8 + 8748\, a1^3\, a2\, b2\, c1\, c2^{10}$$
$$- 2916\, a1^3\, a2\, c1^9\, c2^3 - 11664\, a1^3\, a2\, c1^7\, c2^5 - 17496\, a1^3\, a2\, c1^5\, c2^7$$
$$- 11664\, a1^3\, a2\, c1^3\, c2^9 - 2916\, a1^3\, a2\, c1\, c2^{11} + 432\, a1^3\, b1^{10}\, c1\, c2^2$$
$$+ 2916\, a1^3\, b1^9\, b2^3\, c2 - 26244\, a1^3\, b1^9\, b2^2\, c2^2 - 2160\, a1^3\, b1^9\, b2\, c1^2\, c2$$
$$+ 61236\, a1^3\, b1^9\, b2\, c2^3 + 2160\, a1^3\, b1^9\, c1^2\, c2^2 - 40284\, a1^3\, b1^9\, c2^4$$
$$- 2916\, a1^3\, b1^8\, b2^4\, c1 + 32076\, a1^3\, b1^8\, b2^3\, c1\, c2 + 2160\, a1^3\, b1^8\, b2^2\, c1^3$$
$$- 26244\, a1^3\, b1^8\, b2^2\, c1\, c2^2 - 2160\, a1^3\, b1^8\, b2\, c1^3\, c2 - 142884\, a1^3\, b1^8\, b2\, c1\, c2^3$$
$$- 6480\, a1^3\, b1^8\, c1^3\, c2^2 + 156924\, a1^3\, b1^8\, c1\, c2^4 + 11664\, a1^3\, b1^7\, b2^5\, c2$$
$$- 5832\, a1^3\, b1^7\, b2^4\, c1^2 - 99144\, a1^3\, b1^7\, b2^4\, c2^2 - 74304\, a1^3\, b1^7\, b2^3\, c1^2\, c2$$
$$+ 79920\, a1^3\, b1^7\, b2^3\, c2^3 - 2160\, a1^3\, b1^7\, b2^2\, c1^4 + 286416\, a1^3\, b1^7\, b2^2\, c1^2\, c2^2$$
$$+ 544320\, a1^3\, b1^7\, b2^2\, c2^4 + 19440\, a1^3\, b1^7\, b2\, c1^4\, c2 + 13176\, a1^3\, b1^7\, b2\, c1^2\, c2^3$$
$$- 1161432\, a1^3\, b1^7\, b2\, c2^5 - 2160\, a1^3\, b1^7\, c1^4\, c2^2 - 289008\, a1^3\, b1^7\, c1^2\, c2^4$$
$$+ 640656\, a1^3\, b1^7\, c2^6 - 11664\, a1^3\, b1^6\, b2^6\, c1 + 116640\, a1^3\, b1^6\, b2^5\, c1\, c2$$
$$+ 41472\, a1^3\, b1^6\, b2^4\, c1^3 + 352944\, a1^3\, b1^6\, b2^4\, c1\, c2^2 - 82944\, a1^3\, b1^6\, b2^3\, c1^3\, c2$$
$$- 2572560\, a1^3\, b1^6\, b2^3\, c1\, c2^3 - 9072\, a1^3\, b1^6\, b2^2\, c1^5 - 487944\, a1^3\, b1^6\, b2^2\, c1^3\, c2^2$$
$$+ 4245912\, a1^3\, b1^6\, b2^2\, c1\, c2^4 - 15120\, a1^3\, b1^6\, b2\, c1^5\, c2 + 529416\, a1^3\, b1^6\, b2\, c1^3\, c2^3$$
$$- 1922616\, a1^3\, b1^6\, b2\, c1\, c2^5 + 15120\, a1^3\, b1^6\, c1^5\, c2^2 + 130680\, a1^3\, b1^6\, c1^3\, c2^4$$
$$- 317736\, a1^3\, b1^6\, c1\, c2^6 + 17496\, a1^3\, b1^5\, b2^7\, c2 - 17496\, a1^3\, b1^5\, b2^6\, c1^2$$
$$- 139968\, a1^3\, b1^5\, b2^6\, c2^2 - 705024\, a1^3\, b1^5\, b2^5\, c1^2\, c2 + 37368\, a1^3\, b1^5\, b2^5\, c2^3$$
$$- 31104\, a1^3\, b1^5\, b2^4\, c1^4 + 2974320\, a1^3\, b1^5\, b2^4\, c1^2\, c2^2 + 1189944\, a1^3\, b1^5\, b2^4\, c2^4$$
$$+ 457596\, a1^3\, b1^5\, b2^3\, c1^4\, c2 - 4952880\, a1^3\, b1^5\, b2^3\, c1^2\, c2^3 - 1576972\, a1^3\, b1^5\, b2^3\, c2^5$$

$$+ 15120\, a1^3\, b1^5\, b2^2\, c1^6 - 227124\, a1^3\, b1^5\, b2^2\, c1^4\, c2^2 + 2974968\, a1^3\, b1^5\, b2^2\, c1^2\, c2^4$$
$$- 859380\, a1^3\, b1^5\, b2^2\, c2^6 - 15120\, a1^3\, b1^5\, b2\, c1^6\, c2 - 154764\, a1^3\, b1^5\, b2\, c1^4\, c2^3$$
$$- 705672\, a1^3\, b1^5\, b2\, c1^2\, c2^5 + 2111316\, a1^3\, b1^5\, b2\, c2^7 - 9072\, a1^3\, b1^5\, c1^6\, c2^2$$
$$- 120312\, a1^3\, b1^5\, c1^4\, c2^4 + 663120\, a1^3\, b1^5\, c1^2\, c2^6 - 788552\, a1^3\, b1^5\, c2^8$$
$$- 17496\, a1^3\, b1^4\, b2^8\, c1 + 157464\, a1^3\, b1^4\, b2^7\, c1\, c2 + 276480\, a1^3\, b1^4\, b2^6\, c1^3$$
$$+ 725544\, a1^3\, b1^4\, b2^6\, c1\, c2^2 - 829440\, a1^3\, b1^4\, b2^5\, c1^3\, c2 - 4946616\, a1^3\, b1^4\, b2^5\, c1\, c2^3$$
$$- 120312\, a1^3\, b1^4\, b2^4\, c1^5 + 2968920\, a1^3\, b1^4\, b2^4\, c1^3\, c2^2 + 2924312\, a1^3\, b1^4\, b2^4\, c1\, c2^4$$
$$- 154764\, a1^3\, b1^4\, b2^3\, c1^5\, c2 - 4555440\, a1^3\, b1^4\, b2^3\, c1^3\, c2^3$$
$$+ 11437644\, a1^3\, b1^4\, b2^3\, c1\, c2^5 - 2160\, a1^3\, b1^4\, b2^2\, c1^7 - 227124\, a1^3\, b1^4\, b2^2\, c1^5\, c2^2$$
$$+ 3864240\, a1^3\, b1^4\, b2^2\, c1^3\, c2^4 - 15796956\, a1^3\, b1^4\, b2^2\, c1\, c2^6 + 19440\, a1^3\, b1^4\, b2\, c1^7\, c2$$
$$+ 457596\, a1^3\, b1^4\, b2\, c1^5\, c2^3 - 1724760\, a1^3\, b1^4\, b2\, c1^3\, c2^5 + 5651644\, a1^3\, b1^4\, b2\, c1\, c2^7$$
$$- 2160\, a1^3\, b1^4\, c1^7\, c2^2 - 31104\, a1^3\, b1^4\, c1^5\, c2^4 - 138240\, a1^3\, b1^4\, c1^3\, c2^6$$
$$- 109296\, a1^3\, b1^4\, c1\, c2^8 + 11664\, a1^3\, b1^3\, b2^9\, c2 - 17496\, a1^3\, b1^3\, b2^8\, c1^2$$
$$- 87480\, a1^3\, b1^3\, b2^8\, c2^2 - 1195776\, a1^3\, b1^3\, b2^7\, c1^2\, c2 + 79920\, a1^3\, b1^3\, b2^7\, c2^3$$
$$- 138240\, a1^3\, b1^3\, b2^6\, c1^4 + 5593104\, a1^3\, b1^3\, b2^6\, c1^2\, c2^2 + 503280\, a1^3\, b1^3\, b2^6\, c2^4$$
$$- 1724760\, a1^3\, b1^3\, b2^5\, c1^4\, c2 + 3643064\, a1^3\, b1^3\, b2^5\, c1^2\, c2^3 - 1870992\, a1^3\, b1^3\, b2^5\, c2^5$$
$$+ 130680\, a1^3\, b1^3\, b2^4\, c1^6 + 3864240\, a1^3\, b1^3\, b2^4\, c1^4\, c2^2 - 32478648\, a1^3\, b1^3\, b2^4\, c1^2\, c2^4$$
$$+ 3255552\, a1^3\, b1^3\, b2^4\, c2^6 + 529416\, a1^3\, b1^3\, b2^3\, c1^6\, c2 - 4555440\, a1^3\, b1^3\, b2^3\, c1^4\, c2^3$$
$$+ 35564424\, a1^3\, b1^3\, b2^3\, c1^2\, c2^5 - 3456000\, a1^3\, b1^3\, b2^3\, c2^7 - 6480\, a1^3\, b1^3\, b2^2\, c1^8$$
$$- 487944\, a1^3\, b1^3\, b2^2\, c1^6\, c2^2 + 2968920\, a1^3\, b1^3\, b2^2\, c1^4\, c2^4$$
$$- 9814616\, a1^3\, b1^3\, b2^2\, c1^2\, c2^6 + 2364120\, a1^3\, b1^3\, b2^2\, c2^8 - 2160\, a1^3\, b1^3\, b2\, c1^8\, c2$$
$$- 82944\, a1^3\, b1^3\, b2\, c1^6\, c2^3 - 829440\, a1^3\, b1^3\, b2\, c1^4\, c2^5 - 1748736\, a1^3\, b1^3\, b2\, c1^2\, c2^7$$
$$- 1000080\, a1^3\, b1^3\, b2\, c2^9 + 2160\, a1^3\, b1^3\, c1^8\, c2^2 + 41472\, a1^3\, b1^3\, c1^6\, c2^4$$
$$+ 276480\, a1^3\, b1^3\, c1^4\, c2^6 + 437184\, a1^3\, b1^3\, c1^2\, c2^8 + 200016\, a1^3\, b1^3\, c2^{10}$$
$$- 11664\, a1^3\, b1^2\, b2^{10}\, c1 + 93312\, a1^3\, b1^2\, b2^9\, c1\, c2 + 437184\, a1^3\, b1^2\, b2^8\, c1^3$$
$$+ 285120\, a1^3\, b1^2\, b2^8\, c1\, c2^2 - 1748736\, a1^3\, b1^2\, b2^7\, c1^3\, c2 - 2417040\, a1^3\, b1^2\, b2^7\, c1\, c2^3$$
$$+ 663120\, a1^3\, b1^2\, b2^6\, c1^5 - 9814616\, a1^3\, b1^2\, b2^6\, c1^3\, c2^2 + 6546312\, a1^3\, b1^2\, b2^6\, c1\, c2^4$$
$$- 705672\, a1^3\, b1^2\, b2^5\, c1^5\, c2 + 35564424\, a1^3\, b1^2\, b2^5\, c1^3\, c2^3$$
$$- 10339488\, a1^3\, b1^2\, b2^5\, c1\, c2^5 - 289008\, a1^3\, b1^2\, b2^4\, c1^7 + 2974968\, a1^3\, b1^2\, b2^4\, c1^5\, c2^2$$
$$- 32478648\, a1^3\, b1^2\, b2^4\, c1^3\, c2^4 + 10529136\, a1^3\, b1^2\, b2^4\, c1\, c2^6$$
$$+ 13176\, a1^3\, b1^2\, b2^3\, c1^7\, c2 - 4952880\, a1^3\, b1^2\, b2^3\, c1^5\, c2^3 + 3643064\, a1^3\, b1^2\, b2^3\, c1^3\, c2^5$$
$$- 7020000\, a1^3\, b1^2\, b2^3\, c1\, c2^7 + 2160\, a1^3\, b1^2\, b2^2\, c1^9 + 286416\, a1^3\, b1^2\, b2^2\, c1^7\, c2^2$$
$$+ 2974320\, a1^3\, b1^2\, b2^2\, c1^5\, c2^4 + 5593104\, a1^3\, b1^2\, b2^2\, c1^3\, c2^6$$
$$+ 2903040\, a1^3\, b1^2\, b2^2\, c1\, c2^8 - 2160\, a1^3\, b1^2\, b2\, c1^9\, c2 - 74304\, a1^3\, b1^2\, b2\, c1^7\, c2^3$$

$$- 705024\, a1^3\, b1^2\, b2\, c1^5\, c2^5 - 1195776\, a1^3\, b1^2\, b2\, c1^3\, c2^7 - 562896\, a1^3\, b1^2\, b2\, c1\, c2^9$$
$$- 5832\, a1^3\, b1^2\, c1^7\, c2^4 - 17496\, a1^3\, b1^2\, c1^5\, c2^6 - 17496\, a1^3\, b1^2\, c1^3\, c2^8$$
$$- 5832\, a1^3\, b1^2\, c1\, c2^{10} + 2916\, a1^3\, b1\, b2^{11}\, c2 - 5832\, a1^3\, b1\, b2^{10}\, c1^2$$
$$- 20412\, a1^3\, b1\, b2^{10}\, c2^2 - 562896\, a1^3\, b1\, b2^9\, c1^2\, c2 + 61236\, a1^3\, b1\, b2^9\, c2^3$$
$$- 109296\, a1^3\, b1\, b2^8\, c1^4 + 2903040\, a1^3\, b1\, b2^8\, c1^2\, c2^2 - 102060\, a1^3\, b1\, b2^8\, c2^4$$
$$+ 5651644\, a1^3\, b1\, b2^7\, c1^4\, c2 - 7020000\, a1^3\, b1\, b2^7\, c1^2\, c2^3 + 107460\, a1^3\, b1\, b2^7\, c2^5$$
$$- 317736\, a1^3\, b1\, b2^6\, c1^6 - 15796956\, a1^3\, b1\, b2^6\, c1^4\, c2^2 + 10529136\, a1^3\, b1\, b2^6\, c1^2\, c2^4$$
$$- 88236\, a1^3\, b1\, b2^6\, c2^6 - 1922616\, a1^3\, b1\, b2^5\, c1^6\, c2 + 11437644\, a1^3\, b1\, b2^5\, c1^4\, c2^3$$
$$- 10339488\, a1^3\, b1\, b2^5\, c1^2\, c2^5 + 86076\, a1^3\, b1\, b2^5\, c2^7 + 156924\, a1^3\, b1\, b2^4\, c1^8$$
$$+ 4245912\, a1^3\, b1\, b2^4\, c1^6\, c2^2 + 2924312\, a1^3\, b1\, b2^4\, c1^4\, c2^4$$
$$+ 6546312\, a1^3\, b1\, b2^4\, c1^2\, c2^6 - 103572\, a1^3\, b1\, b2^4\, c2^8 - 142884\, a1^3\, b1\, b2^3\, c1^8\, c2$$
$$- 2572560\, a1^3\, b1\, b2^3\, c1^6\, c2^3 - 4946616\, a1^3\, b1\, b2^3\, c1^4\, c2^5$$
$$- 2417040\, a1^3\, b1\, b2^3\, c1^2\, c2^7 + 99900\, a1^3\, b1\, b2^3\, c2^9 + 432\, a1^3\, b1\, b2^2\, c1^{10}$$
$$- 26244\, a1^3\, b1\, b2^2\, c1^8\, c2^2 + 352944\, a1^3\, b1\, b2^2\, c1^6\, c2^4 + 725544\, a1^3\, b1\, b2^2\, c1^4\, c2^6$$
$$+ 285120\, a1^3\, b1\, b2^2\, c1^2\, c2^8 - 60804\, a1^3\, b1\, b2^2\, c2^{10} + 32076\, a1^3\, b1\, b2\, c1^8\, c2^3$$
$$+ 116640\, a1^3\, b1\, b2\, c1^6\, c2^5 + 157464\, a1^3\, b1\, b2\, c1^4\, c2^7 + 93312\, a1^3\, b1\, b2\, c1^2\, c2^9$$
$$+ 20412\, a1^3\, b1\, b2\, c2^{11} - 2916\, a1^3\, b1\, c1^8\, c2^4 - 11664\, a1^3\, b1\, c1^6\, c2^6$$
$$- 17496\, a1^3\, b1\, c1^4\, c2^8 - 11664\, a1^3\, b1\, c1^2\, c2^{10} - 2916\, a1^3\, b1\, c2^{12} - 2916\, a1^3\, b2^{12}\, c1$$
$$+ 20412\, a1^3\, b2^{11}\, c1\, c2 + 200016\, a1^3\, b2^{10}\, c1^3 - 60804\, a1^3\, b2^{10}\, c1\, c2^2$$
$$- 1000080\, a1^3\, b2^9\, c1^3\, c2 + 99900\, a1^3\, b2^9\, c1\, c2^3 - 788552\, a1^3\, b2^8\, c1^5$$
$$+ 2364120\, a1^3\, b2^8\, c1^3\, c2^2 - 103572\, a1^3\, b2^8\, c1\, c2^4 + 2111316\, a1^3\, b2^7\, c1^5\, c2$$
$$- 3456000\, a1^3\, b2^7\, c1^3\, c2^3 + 86076\, a1^3\, b2^7\, c1\, c2^5 + 640656\, a1^3\, b2^6\, c1^7$$
$$- 859380\, a1^3\, b2^6\, c1^5\, c2^2 + 3255552\, a1^3\, b2^6\, c1^3\, c2^4 - 88236\, a1^3\, b2^6\, c1\, c2^6$$
$$- 1161432\, a1^3\, b2^5\, c1^7\, c2 - 1576972\, a1^3\, b2^5\, c1^5\, c2^3 - 1870992\, a1^3\, b2^5\, c1^3\, c2^5$$
$$+ 107460\, a1^3\, b2^5\, c1\, c2^7 - 40284\, a1^3\, b2^4\, c1^9 + 544320\, a1^3\, b2^4\, c1^7\, c2^2$$
$$+ 1189944\, a1^3\, b2^4\, c1^5\, c2^4 + 503280\, a1^3\, b2^4\, c1^3\, c2^6 - 102060\, a1^3\, b2^4\, c1\, c2^8$$
$$+ 61236\, a1^3\, b2^3\, c1^9\, c2 + 79920\, a1^3\, b2^3\, c1^7\, c2^3 + 37368\, a1^3\, b2^3\, c1^5\, c2^5$$
$$+ 79920\, a1^3\, b2^3\, c1^3\, c2^7 + 61236\, a1^3\, b2^3\, c1\, c2^9 - 26244\, a1^3\, b2^2\, c1^9\, c2^2$$
$$- 99144\, a1^3\, b2^2\, c1^7\, c2^4 - 139968\, a1^3\, b2^2\, c1^5\, c2^6 - 87480\, a1^3\, b2^2\, c1^3\, c2^8$$
$$- 20412\, a1^3\, b2^2\, c1\, c2^{10} + 2916\, a1^3\, b2\, c1^9\, c2^3 + 11664\, a1^3\, b2\, c1^7\, c2^5$$
$$+ 17496\, a1^3\, b2\, c1^5\, c2^7 + 11664\, a1^3\, b2\, c1^3\, c2^9 + 2916\, a1^3\, b2\, c1\, c2^{11}$$
$$+ 2916\, a1^2\, a2^{10}\, b1^4 - 11664\, a1^2\, a2^{10}\, b1^3\, c1 + 4374\, a1^2\, a2^{10}\, b1^2\, b2^2$$
$$- 8748\, a1^2\, a2^{10}\, b1^2\, b2\, c2 + 17496\, a1^2\, a2^{10}\, b1^2\, c1^2 + 4374\, a1^2\, a2^{10}\, b1^2\, c2^2$$
$$- 8748\, a1^2\, a2^{10}\, b1\, b2^2\, c1 + 17496\, a1^2\, a2^{10}\, b1\, b2\, c1\, c2 - 11664\, a1^2\, a2^{10}\, b1\, c1^3$$

$$- 8748\, a1^2\, a2^{10}\, b1\, c1\, c2^2 + 4374\, a1^2\, a2^{10}\, b2^2\, c1^2 - 8748\, a1^2\, a2^{10}\, b2\, c1^2\, c2$$
$$+ 2916\, a1^2\, a2^{10}\, c1^4 + 4374\, a1^2\, a2^{10}\, c1^2\, c2^2 + 2916\, a1^2\, a2^9\, b1^4\, b2$$
$$- 32076\, a1^2\, a2^9\, b1^4\, c2 + 23328\, a1^2\, a2^9\, b1^3\, b2\, c1 + 93312\, a1^2\, a2^9\, b1^3\, c1\, c2$$
$$- 17496\, a1^2\, a2^9\, b1^2\, b2^3 + 8748\, a1^2\, a2^9\, b1^2\, b2^2\, c2 - 87480\, a1^2\, a2^9\, b1^2\, b2\, c1^2$$
$$+ 34992\, a1^2\, a2^9\, b1^2\, b2\, c2^2 - 87480\, a1^2\, a2^9\, b1^2\, c1^2\, c2 - 26244\, a1^2\, a2^9\, b1^2\, c2^3$$
$$+ 43740\, a1^2\, a2^9\, b1\, b2^3\, c1 - 43740\, a1^2\, a2^9\, b1\, b2^2\, c1\, c2 + 93312\, a1^2\, a2^9\, b1\, b2\, c1^3$$
$$- 43740\, a1^2\, a2^9\, b1\, b2\, c1\, c2^2 + 23328\, a1^2\, a2^9\, b1\, c1^3\, c2 + 43740\, a1^2\, a2^9\, b1\, c1\, c2^3$$
$$- 26244\, a1^2\, a2^9\, b2^3\, c1^2 + 34992\, a1^2\, a2^9\, b2^2\, c1^2\, c2 - 32076\, a1^2\, a2^9\, b2\, c1^4$$
$$+ 8748\, a1^2\, a2^9\, b2\, c1^2\, c2^2 + 2916\, a1^2\, a2^9\, c1^4\, c2 - 17496\, a1^2\, a2^9\, c1^2\, c2^3$$
$$- 13986\, a1^2\, a2^8\, b1^6 + 110160\, a1^2\, a2^8\, b1^5\, c1 - 163134\, a1^2\, a2^8\, b1^4\, b2^2$$
$$+ 300024\, a1^2\, a2^8\, b1^4\, b2\, c2 - 314766\, a1^2\, a2^8\, b1^4\, c1^2 - 5670\, a1^2\, a2^8\, b1^4\, c2^2$$
$$+ 600048\, a1^2\, a2^8\, b1^3\, b2^2\, c1 - 1410048\, a1^2\, a2^8\, b1^3\, b2\, c1\, c2 + 437184\, a1^2\, a2^8\, b1^3\, c1^3$$
$$+ 285120\, a1^2\, a2^8\, b1^3\, c1\, c2^2 + 26244\, a1^2\, a2^8\, b1^2\, b2^4 + 52488\, a1^2\, a2^8\, b1^2\, b2^3\, c2$$
$$- 716364\, a1^2\, a2^8\, b1^2\, b2^2\, c1^2 - 118098\, a1^2\, a2^8\, b1^2\, b2^2\, c2^2$$
$$+ 2220048\, a1^2\, a2^8\, b1^2\, b2\, c1^2\, c2 - 26244\, a1^2\, a2^8\, b1^2\, b2\, c2^3 - 314766\, a1^2\, a2^8\, b1^2\, c1^4$$
$$- 716364\, a1^2\, a2^8\, b1^2\, c1^2\, c2^2 + 65610\, a1^2\, a2^8\, b1^2\, c2^4 - 87480\, a1^2\, a2^8\, b1\, b2^4\, c1$$
$$- 43740\, a1^2\, a2^8\, b1\, b2^3\, c1\, c2 + 285120\, a1^2\, a2^8\, b1\, b2^2\, c1^3$$
$$+ 262440\, a1^2\, a2^8\, b1\, b2^2\, c1\, c2^2 - 1410048\, a1^2\, a2^8\, b1\, b2\, c1^3\, c2$$
$$- 43740\, a1^2\, a2^8\, b1\, b2\, c1\, c2^3 + 110160\, a1^2\, a2^8\, b1\, c1^5 + 600048\, a1^2\, a2^8\, b1\, c1^3\, c2^2$$
$$- 87480\, a1^2\, a2^8\, b1\, c1\, c2^4 - 108\, a1^2\, a2^8\, b2^6 + 648\, a1^2\, a2^8\, b2^5\, c2$$
$$+ 65610\, a1^2\, a2^8\, b2^4\, c1^2 - 1620\, a1^2\, a2^8\, b2^4\, c2^2 - 26244\, a1^2\, a2^8\, b2^3\, c1^2\, c2$$
$$+ 2160\, a1^2\, a2^8\, b2^3\, c2^3 - 5670\, a1^2\, a2^8\, b2^2\, c1^4 - 118098\, a1^2\, a2^8\, b2^2\, c1^2\, c2^2$$
$$- 1620\, a1^2\, a2^8\, b2^2\, c2^4 + 300024\, a1^2\, a2^8\, b2\, c1^4\, c2 + 52488\, a1^2\, a2^8\, b2\, c1^2\, c2^3$$
$$+ 648\, a1^2\, a2^8\, b2\, c2^5 - 13986\, a1^2\, a2^8\, c1^6 - 163134\, a1^2\, a2^8\, c1^4\, c2^2$$
$$+ 26244\, a1^2\, a2^8\, c1^2\, c2^4 - 108\, a1^2\, a2^8\, c2^6 - 98928\, a1^2\, a2^7\, b1^6\, b2$$
$$+ 210816\, a1^2\, a2^7\, b1^6\, c2 + 266328\, a1^2\, a2^7\, b1^5\, b2\, c1 - 1147608\, a1^2\, a2^7\, b1^5\, c1\, c2$$
$$+ 305856\, a1^2\, a2^7\, b1^4\, b2^3 + 387504\, a1^2\, a2^7\, b1^4\, b2^2\, c2 + 309744\, a1^2\, a2^7\, b1^4\, b2\, c1^2$$
$$- 1587600\, a1^2\, a2^7\, b1^4\, b2\, c2^2 + 2208384\, a1^2\, a2^7\, b1^4\, c1^2\, c2 + 544320\, a1^2\, a2^7\, b1^4\, c2^3$$
$$- 1823472\, a1^2\, a2^7\, b1^3\, b2^3\, c1 + 670032\, a1^2\, a2^7\, b1^3\, b2^2\, c1\, c2$$
$$- 1748736\, a1^2\, a2^7\, b1^3\, b2\, c1^3 + 4970160\, a1^2\, a2^7\, b1^3\, b2\, c1\, c2^2$$
$$- 1748736\, a1^2\, a2^7\, b1^3\, c1^3\, c2 - 2417040\, a1^2\, a2^7\, b1^3\, c1\, c2^3 - 18144\, a1^2\, a2^7\, b1^2\, b2^5$$
$$- 119232\, a1^2\, a2^7\, b1^2\, b2^4\, c2 + 3390336\, a1^2\, a2^7\, b1^2\, b2^3\, c1^2 + 28512\, a1^2\, a2^7\, b1^2\, b2^3\, c2^2$$
$$- 4440096\, a1^2\, a2^7\, b1^2\, b2^2\, c1^2\, c2 + 286416\, a1^2\, a2^7\, b1^2\, b2^2\, c2^3$$
$$+ 2208384\, a1^2\, a2^7\, b1^2\, b2\, c1^4 - 4440096\, a1^2\, a2^7\, b1^2\, b2\, c1^2\, c2^2$$

$$- 90720\, a1^2\, a2^7\, b1^2\, b2\, c2^4 + 309744\, a1^2\, a2^7\, b1^2\, c1^4\, c2 + 3390336\, a1^2\, a2^7\, b1^2\, c1^2\, c2^3$$
$$- 86832\, a1^2\, a2^7\, b1^2\, c2^5 + 87480\, a1^2\, a2^7\, b1\, b2^5\, c1 + 262440\, a1^2\, a2^7\, b1\, b2^4\, c1\, c2$$
$$- 2417040\, a1^2\, a2^7\, b1\, b2^3\, c1^3 - 349920\, a1^2\, a2^7\, b1\, b2^3\, c1\, c2^2$$
$$+ 4970160\, a1^2\, a2^7\, b1\, b2^2\, c1^3\, c2 - 349920\, a1^2\, a2^7\, b1\, b2^2\, c1\, c2^3$$
$$- 1147608\, a1^2\, a2^7\, b1\, b2\, c1^5 + 670032\, a1^2\, a2^7\, b1\, b2\, c1^3\, c2^2$$
$$+ 262440\, a1^2\, a2^7\, b1\, b2\, c1\, c2^4 + 266328\, a1^2\, a2^7\, b1\, c1^5\, c2 - 1823472\, a1^2\, a2^7\, b1\, c1^3\, c2^3$$
$$+ 87480\, a1^2\, a2^7\, b1\, c1\, c2^5 + 432\, a1^2\, a2^7\, b2^7 - 2160\, a1^2\, a2^7\, b2^6\, c2$$
$$- 86832\, a1^2\, a2^7\, b2^5\, c1^2 + 3888\, a1^2\, a2^7\, b2^5\, c2^2 - 90720\, a1^2\, a2^7\, b2^4\, c1^2\, c2$$
$$- 2160\, a1^2\, a2^7\, b2^4\, c2^3 + 544320\, a1^2\, a2^7\, b2^3\, c1^4 + 286416\, a1^2\, a2^7\, b2^3\, c1^2\, c2^2$$
$$- 2160\, a1^2\, a2^7\, b2^3\, c2^4 - 1587600\, a1^2\, a2^7\, b2^2\, c1^4\, c2 + 28512\, a1^2\, a2^7\, b2^2\, c1^2\, c2^3$$
$$+ 3888\, a1^2\, a2^7\, b2^2\, c2^5 + 210816\, a1^2\, a2^7\, b2\, c1^6 + 387504\, a1^2\, a2^7\, b2\, c1^4\, c2^2$$
$$- 119232\, a1^2\, a2^7\, b2\, c1^2\, c2^4 - 2160\, a1^2\, a2^7\, b2\, c2^6 - 98928\, a1^2\, a2^7\, c1^6\, c2$$
$$+ 305856\, a1^2\, a2^7\, c1^4\, c2^3 - 18144\, a1^2\, a2^7\, c1^2\, c2^5 + 432\, a1^2\, a2^7\, c2^7$$
$$- 27810\, a1^2\, a2^6\, b1^8 + 174528\, a1^2\, a2^6\, b1^7\, c1 + 588190\, a1^2\, a2^6\, b1^6\, b2^2$$
$$- 483884\, a1^2\, a2^6\, b1^6\, b2\, c2 - 447228\, a1^2\, a2^6\, b1^6\, c1^2 - 495914\, a1^2\, a2^6\, b1^6\, c2^2$$
$$- 4101972\, a1^2\, a2^6\, b1^5\, b2^2\, c1 + 6339648\, a1^2\, a2^6\, b1^5\, b2\, c1\, c2 + 663120\, a1^2\, a2^6\, b1^5\, c1^3$$
$$+ 846804\, a1^2\, a2^6\, b1^5\, c1\, c2^2 - 444582\, a1^2\, a2^6\, b1^4\, b2^4 - 362664\, a1^2\, a2^6\, b1^4\, b2^3\, c2$$
$$+ 9811374\, a1^2\, a2^6\, b1^4\, b2^2\, c1^2 - 812268\, a1^2\, a2^6\, b1^4\, b2^2\, c2^2$$
$$- 21790956\, a1^2\, a2^6\, b1^4\, b2\, c1^2\, c2 + 4245912\, a1^2\, a2^6\, b1^4\, b2\, c2^3$$
$$- 725220\, a1^2\, a2^6\, b1^4\, c1^4 + 3166134\, a1^2\, a2^6\, b1^4\, c1^2\, c2^2 - 2014038\, a1^2\, a2^6\, b1^4\, c2^4$$
$$+ 2999160\, a1^2\, a2^6\, b1^3\, b2^4\, c1 + 767664\, a1^2\, a2^6\, b1^3\, b2^3\, c1\, c2$$
$$- 9814616\, a1^2\, a2^6\, b1^3\, b2^2\, c1^3 - 3496608\, a1^2\, a2^6\, b1^3\, b2^2\, c1\, c2^2$$
$$+ 31870384\, a1^2\, a2^6\, b1^3\, b2\, c1^3\, c2 - 9265968\, a1^2\, a2^6\, b1^3\, b2\, c1\, c2^3$$
$$+ 663120\, a1^2\, a2^6\, b1^3\, c1^5 - 9814616\, a1^2\, a2^6\, b1^3\, c1^3\, c2^2 + 6546312\, a1^2\, a2^6\, b1^3\, c1\, c2^4$$
$$+ 14418\, a1^2\, a2^6\, b1^2\, b2^6 + 40500\, a1^2\, a2^6\, b1^2\, b2^5\, c2 - 7043112\, a1^2\, a2^6\, b1^2\, b2^4\, c1^2$$
$$+ 316062\, a1^2\, a2^6\, b1^2\, b2^4\, c2^2 + 4440096\, a1^2\, a2^6\, b1^2\, b2^3\, c1^2\, c2$$
$$- 487944\, a1^2\, a2^6\, b1^2\, b2^3\, c2^3 + 3166134\, a1^2\, a2^6\, b1^2\, b2^2\, c1^4$$
$$+ 8880192\, a1^2\, a2^6\, b1^2\, b2^2\, c1^2\, c2^2 - 135270\, a1^2\, a2^6\, b1^2\, b2^2\, c2^4$$
$$- 21790956\, a1^2\, a2^6\, b1^2\, b2\, c1^4\, c2 + 4440096\, a1^2\, a2^6\, b1^2\, b2\, c1^2\, c2^3$$
$$+ 181116\, a1^2\, a2^6\, b1^2\, b2\, c2^5 - 447228\, a1^2\, a2^6\, b1^2\, c1^6 + 9811374\, a1^2\, a2^6\, b1^2\, c1^4\, c2^2$$
$$- 7043112\, a1^2\, a2^6\, b1^2\, c1^2\, c2^4 + 71118\, a1^2\, a2^6\, b1^2\, c2^6 - 61236\, a1^2\, a2^6\, b1\, b2^6\, c1$$
$$- 244944\, a1^2\, a2^6\, b1\, b2^5\, c1\, c2 + 6546312\, a1^2\, a2^6\, b1\, b2^4\, c1^3$$
$$- 306180\, a1^2\, a2^6\, b1\, b2^4\, c1\, c2^2 - 9265968\, a1^2\, a2^6\, b1\, b2^3\, c1^3\, c2$$
$$+ 1224720\, a1^2\, a2^6\, b1\, b2^3\, c1\, c2^3 + 846804\, a1^2\, a2^6\, b1\, b2^2\, c1^5$$

$$- 3496608\, a1^2\, a2^6\, b1\, b2^2\, c1^3\, c2^2 - 306180\, a1^2\, a2^6\, b1\, b2^2\, c1\, c2^4$$
$$+ 6339648\, a1^2\, a2^6\, b1\, b2\, c1^5\, c2 + 767664\, a1^2\, a2^6\, b1\, b2\, c1^3\, c2^3$$
$$- 244944\, a1^2\, a2^6\, b1\, b2\, c1\, c2^5 + 174528\, a1^2\, a2^6\, b1\, c1^7 - 4101972\, a1^2\, a2^6\, b1\, c1^5\, c2^2$$
$$+ 2999160\, a1^2\, a2^6\, b1\, c1^3\, c2^4 - 61236\, a1^2\, a2^6\, b1\, c1\, c2^6 - 648\, a1^2\, a2^6\, b2^8$$
$$+ 2160\, a1^2\, a2^6\, b2^7\, c2 + 71118\, a1^2\, a2^6\, b2^6\, c1^2 + 181116\, a1^2\, a2^6\, b2^5\, c1^2\, c2$$
$$- 9072\, a1^2\, a2^6\, b2^5\, c2^3 - 2014038\, a1^2\, a2^6\, b2^4\, c1^4 - 135270\, a1^2\, a2^6\, b2^4\, c1^2\, c2^2$$
$$+ 15120\, a1^2\, a2^6\, b2^4\, c2^4 + 4245912\, a1^2\, a2^6\, b2^3\, c1^4\, c2 - 487944\, a1^2\, a2^6\, b2^3\, c1^2\, c2^3$$
$$- 9072\, a1^2\, a2^6\, b2^3\, c2^5 - 495914\, a1^2\, a2^6\, b2^2\, c1^6 - 812268\, a1^2\, a2^6\, b2^2\, c1^4\, c2^2$$
$$+ 316062\, a1^2\, a2^6\, b2^2\, c1^2\, c2^4 - 483884\, a1^2\, a2^6\, b2\, c1^6\, c2 - 362664\, a1^2\, a2^6\, b2\, c1^4\, c2^3$$
$$+ 40500\, a1^2\, a2^6\, b2\, c1^2\, c2^5 + 2160\, a1^2\, a2^6\, b2\, c2^7 - 27810\, a1^2\, a2^6\, c1^8$$
$$+ 588190\, a1^2\, a2^6\, c1^6\, c2^2 - 444582\, a1^2\, a2^6\, c1^4\, c2^4 + 14418\, a1^2\, a2^6\, c1^2\, c2^6$$
$$- 648\, a1^2\, a2^6\, c2^8 - 117288\, a1^2\, a2^5\, b1^8\, b2 + 284148\, a1^2\, a2^5\, b1^8\, c2$$
$$+ 424440\, a1^2\, a2^5\, b1^7\, b2\, c1 - 1471608\, a1^2\, a2^5\, b1^7\, c1\, c2 + 190944\, a1^2\, a2^5\, b1^6\, b2^3$$
$$- 4101972\, a1^2\, a2^5\, b1^6\, b2^2\, c2 - 320760\, a1^2\, a2^5\, b1^6\, b2\, c1^2$$
$$+ 5553624\, a1^2\, a2^5\, b1^6\, b2\, c2^2 + 3004128\, a1^2\, a2^5\, b1^6\, c1^2\, c2 - 859380\, a1^2\, a2^5\, b1^6\, c2^3$$
$$+ 2962788\, a1^2\, a2^5\, b1^5\, b2^3\, c1 + 15723468\, a1^2\, a2^5\, b1^5\, b2^2\, c1\, c2$$
$$- 705672\, a1^2\, a2^5\, b1^5\, b2\, c1^3 - 34742412\, a1^2\, a2^5\, b1^5\, b2\, c1\, c2^2$$
$$- 3273048\, a1^2\, a2^5\, b1^5\, c1^3\, c2 + 9887196\, a1^2\, a2^5\, b1^5\, c1\, c2^3 + 289656\, a1^2\, a2^5\, b1^4\, b2^5$$
$$+ 1219212\, a1^2\, a2^5\, b1^4\, b2^4\, c2 - 18340356\, a1^2\, a2^5\, b1^4\, b2^3\, c1^2$$
$$- 1350432\, a1^2\, a2^5\, b1^4\, b2^3\, c2^2 - 3847176\, a1^2\, a2^5\, b1^4\, b2^2\, c1^2\, c2$$
$$+ 2974968\, a1^2\, a2^5\, b1^4\, b2^2\, c2^3 + 2175660\, a1^2\, a2^5\, b1^4\, b2\, c1^4$$
$$+ 69220044\, a1^2\, a2^5\, b1^4\, b2\, c1^2\, c2^2 - 7856352\, a1^2\, a2^5\, b1^4\, b2\, c2^4$$
$$+ 2175660\, a1^2\, a2^5\, b1^4\, c1^4\, c2 - 29405616\, a1^2\, a2^5\, b1^4\, c1^2\, c2^3 + 3988116\, a1^2\, a2^5\, b1^4\, c2^5$$
$$- 2965248\, a1^2\, a2^5\, b1^3\, b2^5\, c1 - 3168720\, a1^2\, a2^5\, b1^3\, b2^4\, c1\, c2$$
$$+ 35564424\, a1^2\, a2^5\, b1^3\, b2^3\, c1^3 + 4034448\, a1^2\, a2^5\, b1^3\, b2^3\, c1\, c2^2$$
$$- 47805576\, a1^2\, a2^5\, b1^3\, b2^2\, c1^3\, c2 + 2958768\, a1^2\, a2^5\, b1^3\, b2^2\, c1\, c2^3$$
$$- 3273048\, a1^2\, a2^5\, b1^3\, b2\, c1^5 - 47805576\, a1^2\, a2^5\, b1^3\, b2\, c1^3\, c2^2$$
$$+ 12419568\, a1^2\, a2^5\, b1^3\, b2\, c1\, c2^4 - 705672\, a1^2\, a2^5\, b1^3\, c1^5\, c2$$
$$+ 35564424\, a1^2\, a2^5\, b1^3\, c1^3\, c2^3 - 10339488\, a1^2\, a2^5\, b1^3\, c1\, c2^5 - 18144\, a1^2\, a2^5\, b1^2\, b2^7$$
$$+ 40500\, a1^2\, a2^5\, b1^2\, b2^6\, c2 + 8895744\, a1^2\, a2^5\, b1^2\, b2^5\, c1^2 - 243000\, a1^2\, a2^5\, b1^2\, b2^5\, c2^2$$
$$- 2220048\, a1^2\, a2^5\, b1^2\, b2^4\, c1^2\, c2 - 227124\, a1^2\, a2^5\, b1^2\, b2^4\, c2^3$$
$$- 29405616\, a1^2\, a2^5\, b1^2\, b2^3\, c1^4 - 8880192\, a1^2\, a2^5\, b1^2\, b2^3\, c1^2\, c2^2$$
$$+ 959040\, a1^2\, a2^5\, b1^2\, b2^3\, c2^4 + 69220044\, a1^2\, a2^5\, b1^2\, b2^2\, c1^4\, c2$$
$$- 8880192\, a1^2\, a2^5\, b1^2\, b2^2\, c1^2\, c2^3 - 413100\, a1^2\, a2^5\, b1^2\, b2^2\, c2^5$$

$$+ 3004128\, a1^2\, a2^5\, b1^2\, b2\, c1^6 - 3847176\, a1^2\, a2^5\, b1^2\, b2\, c1^4\, c2^2$$
$$- 2220048\, a1^2\, a2^5\, b1^2\, b2\, c1^2\, c2^4 - 43416\, a1^2\, a2^5\, b1^2\, b2\, c2^6$$
$$- 320760\, a1^2\, a2^5\, b1^2\, c1^6\, c2 - 18340356\, a1^2\, a2^5\, b1^2\, c1^4\, c2^3$$
$$+ 8895744\, a1^2\, a2^5\, b1^2\, c1^2\, c2^5 - 54756\, a1^2\, a2^5\, b1^2\, c2^7 + 61236\, a1^2\, a2^5\, b1\, b2^7\, c1$$
$$- 61236\, a1^2\, a2^5\, b1\, b2^6\, c1\, c2 - 10339488\, a1^2\, a2^5\, b1\, b2^5\, c1^3$$
$$+ 918540\, a1^2\, a2^5\, b1\, b2^5\, c1\, c2^2 + 12419568\, a1^2\, a2^5\, b1\, b2^4\, c1^3\, c2$$
$$- 918540\, a1^2\, a2^5\, b1\, b2^4\, c1\, c2^3 + 9887196\, a1^2\, a2^5\, b1\, b2^3\, c1^5$$
$$+ 2958768\, a1^2\, a2^5\, b1\, b2^3\, c1^3\, c2^2 - 918540\, a1^2\, a2^5\, b1\, b2^3\, c1\, c2^4$$
$$- 34742412\, a1^2\, a2^5\, b1\, b2^2\, c1^5\, c2 + 4034448\, a1^2\, a2^5\, b1\, b2^2\, c1^3\, c2^3$$
$$+ 918540\, a1^2\, a2^5\, b1\, b2^2\, c1\, c2^5 - 1471608\, a1^2\, a2^5\, b1\, b2\, c1^7$$
$$+ 15723468\, a1^2\, a2^5\, b1\, b2\, c1^5\, c2^2 - 3168720\, a1^2\, a2^5\, b1\, b2\, c1^3\, c2^4$$
$$- 61236\, a1^2\, a2^5\, b1\, b2\, c1\, c2^6 + 424440\, a1^2\, a2^5\, b1\, c1^7\, c2 + 2962788\, a1^2\, a2^5\, b1\, c1^5\, c2^3$$
$$- 2965248\, a1^2\, a2^5\, b1\, c1^3\, c2^5 + 61236\, a1^2\, a2^5\, b1\, c1\, c2^7 + 432\, a1^2\, a2^5\, b2^9$$
$$- 54756\, a1^2\, a2^5\, b2^7\, c1^2 - 6480\, a1^2\, a2^5\, b2^7\, c2^2 - 43416\, a1^2\, a2^5\, b2^6\, c1^2\, c2$$
$$+ 15120\, a1^2\, a2^5\, b2^6\, c2^3 + 3988116\, a1^2\, a2^5\, b2^5\, c1^4 - 413100\, a1^2\, a2^5\, b2^5\, c1^2\, c2^2$$
$$- 9072\, a1^2\, a2^5\, b2^5\, c2^4 - 7856352\, a1^2\, a2^5\, b2^4\, c1^4\, c2 + 959040\, a1^2\, a2^5\, b2^4\, c1^2\, c2^3$$
$$- 9072\, a1^2\, a2^5\, b2^4\, c2^5 - 859380\, a1^2\, a2^5\, b2^3\, c1^6 + 2974968\, a1^2\, a2^5\, b2^3\, c1^4\, c2^2$$
$$- 227124\, a1^2\, a2^5\, b2^3\, c1^2\, c2^4 + 15120\, a1^2\, a2^5\, b2^3\, c2^6 + 5553624\, a1^2\, a2^5\, b2^2\, c1^6\, c2$$
$$- 1350432\, a1^2\, a2^5\, b2^2\, c1^4\, c2^3 - 243000\, a1^2\, a2^5\, b2^2\, c1^2\, c2^5 - 6480\, a1^2\, a2^5\, b2^2\, c2^7$$
$$+ 284148\, a1^2\, a2^5\, b2\, c1^8 - 4101972\, a1^2\, a2^5\, b2\, c1^6\, c2^2 + 1219212\, a1^2\, a2^5\, b2\, c1^4\, c2^4$$
$$+ 40500\, a1^2\, a2^5\, b2\, c1^2\, c2^6 - 117288\, a1^2\, a2^5\, c1^8\, c2 + 190944\, a1^2\, a2^5\, c1^6\, c2^3$$
$$+ 289656\, a1^2\, a2^5\, c1^4\, c2^5 - 18144\, a1^2\, a2^5\, c1^2\, c2^7 + 432\, a1^2\, a2^5\, c2^9 + 4266\, a1^2\, a2^4\, b1^{10}$$
$$- 35532\, a1^2\, a2^4\, b1^9\, c1 - 163134\, a1^2\, a2^4\, b1^8\, b2^2 + 912708\, a1^2\, a2^4\, b1^8\, b2\, c2$$
$$+ 134460\, a1^2\, a2^4\, b1^8\, c1^2 - 1166724\, a1^2\, a2^4\, b1^8\, c2^2 + 387504\, a1^2\, a2^4\, b1^7\, b2^2\, c1$$
$$- 2897208\, a1^2\, a2^4\, b1^7\, b2\, c1\, c2 - 289008\, a1^2\, a2^4\, b1^7\, c1^3 + 5127624\, a1^2\, a2^4\, b1^7\, c1\, c2^2$$
$$- 312606\, a1^2\, a2^4\, b1^6\, b2^4 + 295704\, a1^2\, a2^4\, b1^6\, b2^3\, c2 - 812268\, a1^2\, a2^4\, b1^6\, b2^2\, c1^2$$
$$+ 9811374\, a1^2\, a2^4\, b1^6\, b2^2\, c2^2 + 3228336\, a1^2\, a2^4\, b1^6\, b2\, c1^2\, c2$$
$$- 15796956\, a1^2\, a2^4\, b1^6\, b2\, c2^3 + 407754\, a1^2\, a2^4\, b1^6\, c1^4 - 9124488\, a1^2\, a2^4\, b1^6\, c1^2\, c2^2$$
$$+ 5023464\, a1^2\, a2^4\, b1^6\, c2^4 + 2206764\, a1^2\, a2^4\, b1^5\, b2^4\, c1$$
$$- 23640996\, a1^2\, a2^4\, b1^5\, b2^3\, c1\, c2 + 2974968\, a1^2\, a2^4\, b1^5\, b2^2\, c1^3$$
$$- 3847176\, a1^2\, a2^4\, b1^5\, b2^2\, c1\, c2^2 - 2421576\, a1^2\, a2^4\, b1^5\, b2\, c1^3\, c2$$
$$+ 60468804\, a1^2\, a2^4\, b1^5\, b2\, c1\, c2^3 - 443880\, a1^2\, a2^4\, b1^5\, c1^5$$
$$+ 9393408\, a1^2\, a2^4\, b1^5\, c1^3\, c2^2 - 27476196\, a1^2\, a2^4\, b1^5\, c1\, c2^4 - 118854\, a1^2\, a2^4\, b1^4\, b2^6$$
$$- 735156\, a1^2\, a2^4\, b1^4\, b2^5\, c2 + 4441722\, a1^2\, a2^4\, b1^4\, b2^4\, c1^2$$

$$- 1210140\, a1^2\, a2^4\, b1^4\, b2^4\, c2^2 + 73934892\, a1^2\, a2^4\, b1^4\, b2^3\, c1^2\, c2$$
$$+ 3864240\, a1^2\, a2^4\, b1^4\, b2^3\, c2^3 - 6616890\, a1^2\, a2^4\, b1^4\, b2^2\, c1^4$$
$$- 101284398\, a1^2\, a2^4\, b1^4\, b2^2\, c1^2\, c2^2 - 6616890\, a1^2\, a2^4\, b1^4\, b2^2\, c2^4$$
$$+ 2355480\, a1^2\, a2^4\, b1^4\, b2\, c1^4\, c2 - 47843808\, a1^2\, a2^4\, b1^4\, b2\, c1^2\, c2^3$$
$$+ 10503108\, a1^2\, a2^4\, b1^4\, b2\, c2^5 + 407754\, a1^2\, a2^4\, b1^4\, c1^6 - 6616890\, a1^2\, a2^4\, b1^4\, c1^4\, c2^2$$
$$+ 48717972\, a1^2\, a2^4\, b1^4\, c1^2\, c2^4 - 5073948\, a1^2\, a2^4\, b1^4\, c2^6$$
$$+ 1696248\, a1^2\, a2^4\, b1^3\, b2^6\, c1 + 4648752\, a1^2\, a2^4\, b1^3\, b2^5\, c1\, c2$$
$$- 32478648\, a1^2\, a2^4\, b1^3\, b2^4\, c1^3 - 3700080\, a1^2\, a2^4\, b1^3\, b2^4\, c1\, c2^2$$
$$- 47907528\, a1^2\, a2^4\, b1^3\, b2^3\, c1^3\, c2 - 1790640\, a1^2\, a2^4\, b1^3\, b2^3\, c1\, c2^3$$
$$+ 9393408\, a1^2\, a2^4\, b1^3\, b2^2\, c1^5 + 191375232\, a1^2\, a2^4\, b1^3\, b2^2\, c1^3\, c2^2$$
$$- 2355480\, a1^2\, a2^4\, b1^3\, b2^2\, c1\, c2^4 - 2421576\, a1^2\, a2^4\, b1^3\, b2\, c1^5\, c2$$
$$- 47907528\, a1^2\, a2^4\, b1^3\, b2\, c1^3\, c2^3 - 11477376\, a1^2\, a2^4\, b1^3\, b2\, c1\, c2^5$$
$$- 289008\, a1^2\, a2^4\, b1^3\, c1^7 + 2974968\, a1^2\, a2^4\, b1^3\, c1^5\, c2^2 - 32478648\, a1^2\, a2^4\, b1^3\, c1^3\, c2^4$$
$$+ 10529136\, a1^2\, a2^4\, b1^3\, c1\, c2^6 + 26244\, a1^2\, a2^4\, b1^2\, b2^8 - 119232\, a1^2\, a2^4\, b1^2\, b2^7\, c2$$
$$- 7043112\, a1^2\, a2^4\, b1^2\, b2^6\, c1^2 + 316062\, a1^2\, a2^4\, b1^2\, b2^6\, c2^2$$
$$- 2220048\, a1^2\, a2^4\, b1^2\, b2^5\, c1^2\, c2 - 227124\, a1^2\, a2^4\, b1^2\, b2^5\, c2^3$$
$$+ 48717972\, a1^2\, a2^4\, b1^2\, b2^4\, c1^4 + 11100240\, a1^2\, a2^4\, b1^2\, b2^4\, c1^2\, c2^2$$
$$+ 567810\, a1^2\, a2^4\, b1^2\, b2^4\, c2^4 - 47843808\, a1^2\, a2^4\, b1^2\, b2^3\, c1^4\, c2$$
$$- 1413288\, a1^2\, a2^4\, b1^2\, b2^3\, c2^5 - 9124488\, a1^2\, a2^4\, b1^2\, b2^2\, c1^6$$
$$- 101284398\, a1^2\, a2^4\, b1^2\, b2^2\, c1^4\, c2^2 + 11100240\, a1^2\, a2^4\, b1^2\, b2^2\, c1^2\, c2^4$$
$$+ 1050894\, a1^2\, a2^4\, b1^2\, b2^2\, c2^6 + 3228336\, a1^2\, a2^4\, b1^2\, b2\, c1^6\, c2$$
$$+ 73934892\, a1^2\, a2^4\, b1^2\, b2\, c1^4\, c2^3 - 2220048\, a1^2\, a2^4\, b1^2\, b2\, c1^2\, c2^5$$
$$- 269244\, a1^2\, a2^4\, b1^2\, b2\, c2^7 + 134460\, a1^2\, a2^4\, b1^2\, c1^8 - 812268\, a1^2\, a2^4\, b1^2\, c1^6\, c2^2$$
$$+ 4441722\, a1^2\, a2^4\, b1^2\, c1^4\, c2^4 - 7043112\, a1^2\, a2^4\, b1^2\, c1^2\, c2^6 + 67878\, a1^2\, a2^4\, b1^2\, c2^8$$
$$- 87480\, a1^2\, a2^4\, b1\, b2^8\, c1 + 393660\, a1^2\, a2^4\, b1\, b2^7\, c1\, c2$$
$$+ 10529136\, a1^2\, a2^4\, b1\, b2^6\, c1^3 - 1224720\, a1^2\, a2^4\, b1\, b2^6\, c1\, c2^2$$
$$- 11477376\, a1^2\, a2^4\, b1\, b2^5\, c1^3\, c2 + 918540\, a1^2\, a2^4\, b1\, b2^5\, c1\, c2^3$$
$$- 27476196\, a1^2\, a2^4\, b1\, b2^4\, c1^5 - 2355480\, a1^2\, a2^4\, b1\, b2^4\, c1^3\, c2^2$$
$$+ 60468804\, a1^2\, a2^4\, b1\, b2^3\, c1^5\, c2 - 1790640\, a1^2\, a2^4\, b1\, b2^3\, c1^3\, c2^3$$
$$+ 918540\, a1^2\, a2^4\, b1\, b2^3\, c1\, c2^5 + 5127624\, a1^2\, a2^4\, b1\, b2^2\, c1^7$$
$$- 3847176\, a1^2\, a2^4\, b1\, b2^2\, c1^5\, c2^2 - 3700080\, a1^2\, a2^4\, b1\, b2^2\, c1^3\, c2^4$$
$$- 1224720\, a1^2\, a2^4\, b1\, b2^2\, c1\, c2^6 - 2897208\, a1^2\, a2^4\, b1\, b2\, c1^7\, c2$$
$$- 23640996\, a1^2\, a2^4\, b1\, b2\, c1^5\, c2^3 + 4648752\, a1^2\, a2^4\, b1\, b2\, c1^3\, c2^5$$
$$+ 393660\, a1^2\, a2^4\, b1\, b2\, c1\, c2^7 - 35532\, a1^2\, a2^4\, b1\, c1^9 + 387504\, a1^2\, a2^4\, b1\, c1^7\, c2^2$$

$$+ 2206764\, a1^2\, a2^4\, b1\, c1^5\, c2^4 + 1696248\, a1^2\, a2^4\, b1\, c1^3\, c2^6 - 87480\, a1^2\, a2^4\, b1\, c1\, c2^8$$
$$- 108\, a1^2\, a2^4\, b2^{10} - 1080\, a1^2\, a2^4\, b2^9\, c2 + 67878\, a1^2\, a2^4\, b2^8\, c1^2$$
$$+ 4860\, a1^2\, a2^4\, b2^8\, c2^2 - 269244\, a1^2\, a2^4\, b2^7\, c1^2\, c2 - 2160\, a1^2\, a2^4\, b2^7\, c2^3$$
$$- 5073948\, a1^2\, a2^4\, b2^6\, c1^4 + 1050894\, a1^2\, a2^4\, b2^6\, c1^2\, c2^2 - 15120\, a1^2\, a2^4\, b2^6\, c2^4$$
$$+ 10503108\, a1^2\, a2^4\, b2^5\, c1^4\, c2 - 1413288\, a1^2\, a2^4\, b2^5\, c1^2\, c2^3 + 27216\, a1^2\, a2^4\, b2^5\, c2^5$$
$$+ 5023464\, a1^2\, a2^4\, b2^4\, c1^6 - 6616890\, a1^2\, a2^4\, b2^4\, c1^4\, c2^2 + 567810\, a1^2\, a2^4\, b2^4\, c1^2\, c2^4$$
$$- 15120\, a1^2\, a2^4\, b2^4\, c2^6 - 15796956\, a1^2\, a2^4\, b2^3\, c1^6\, c2 + 3864240\, a1^2\, a2^4\, b2^3\, c1^4\, c2^3$$
$$- 227124\, a1^2\, a2^4\, b2^3\, c1^2\, c2^5 - 2160\, a1^2\, a2^4\, b2^3\, c2^7 - 1166724\, a1^2\, a2^4\, b2^2\, c1^8$$
$$+ 9811374\, a1^2\, a2^4\, b2^2\, c1^6\, c2^2 - 1210140\, a1^2\, a2^4\, b2^2\, c1^4\, c2^4$$
$$+ 316062\, a1^2\, a2^4\, b2^2\, c1^2\, c2^6 + 4860\, a1^2\, a2^4\, b2^2\, c2^8 + 912708\, a1^2\, a2^4\, b2\, c1^8\, c2$$
$$+ 295704\, a1^2\, a2^4\, b2\, c1^6\, c2^3 - 735156\, a1^2\, a2^4\, b2\, c1^4\, c2^5 - 119232\, a1^2\, a2^4\, b2\, c1^2\, c2^7$$
$$- 1080\, a1^2\, a2^4\, b2\, c2^9 + 4266\, a1^2\, a2^4\, c1^{10} - 163134\, a1^2\, a2^4\, c1^8\, c2^2$$
$$- 312606\, a1^2\, a2^4\, c1^6\, c2^4 - 118854\, a1^2\, a2^4\, c1^4\, c2^6 + 26244\, a1^2\, a2^4\, c1^2\, c2^8$$
$$- 108\, a1^2\, a2^4\, c2^{10} + 11664\, a1^2\, a2^3\, b1^{10}\, b2 - 28728\, a1^2\, a2^3\, b1^{10}\, c2$$
$$- 64152\, a1^2\, a2^3\, b1^9\, b2\, c1 + 206280\, a1^2\, a2^3\, b1^9\, c1\, c2 + 17496\, a1^2\, a2^3\, b1^8\, b2^3$$
$$+ 600048\, a1^2\, a2^3\, b1^8\, b2^2\, c2 + 122472\, a1^2\, a2^3\, b1^8\, b2\, c1^2 - 2425464\, a1^2\, a2^3\, b1^8\, b2\, c2^2$$
$$- 660312\, a1^2\, a2^3\, b1^8\, c1^2\, c2 + 2364120\, a1^2\, a2^3\, b1^8\, c2^3 - 740016\, a1^2\, a2^3\, b1^7\, b2^3\, c1$$
$$+ 670032\, a1^2\, a2^3\, b1^7\, b2^2\, c1\, c2 + 13176\, a1^2\, a2^3\, b1^7\, b2\, c1^3$$
$$+ 5124384\, a1^2\, a2^3\, b1^7\, b2\, c1\, c2^2 + 1142856\, a1^2\, a2^3\, b1^7\, c1^3\, c2$$
$$- 8544960\, a1^2\, a2^3\, b1^7\, c1\, c2^3 - 17496\, a1^2\, a2^3\, b1^6\, b2^5 + 1337904\, a1^2\, a2^3\, b1^6\, b2^4\, c2$$
$$+ 2248560\, a1^2\, a2^3\, b1^6\, b2^3\, c1^2 - 3267216\, a1^2\, a2^3\, b1^6\, b2^3\, c2^2$$
$$- 3496608\, a1^2\, a2^3\, b1^6\, b2^2\, c1^2\, c2 - 9814616\, a1^2\, a2^3\, b1^6\, b2^2\, c2^3$$
$$- 420120\, a1^2\, a2^3\, b1^6\, b2\, c1^4 - 2960064\, a1^2\, a2^3\, b1^6\, b2\, c1^2\, c2^2$$
$$+ 20704264\, a1^2\, a2^3\, b1^6\, b2\, c2^4 - 1210896\, a1^2\, a2^3\, b1^6\, c1^4\, c2$$
$$+ 13152672\, a1^2\, a2^3\, b1^6\, c1^2\, c2^3 - 8159624\, a1^2\, a2^3\, b1^6\, c2^5$$
$$- 1200096\, a1^2\, a2^3\, b1^5\, b2^5\, c1 - 2826576\, a1^2\, a2^3\, b1^5\, b2^4\, c1\, c2$$
$$- 4952880\, a1^2\, a2^3\, b1^5\, b2^3\, c1^3 + 52935144\, a1^2\, a2^3\, b1^5\, b2^3\, c1\, c2^2$$
$$+ 2958768\, a1^2\, a2^3\, b1^5\, b2^2\, c1^3\, c2 - 47805576\, a1^2\, a2^3\, b1^5\, b2^2\, c1\, c2^3$$
$$+ 887760\, a1^2\, a2^3\, b1^5\, b2\, c1^5 + 1884384\, a1^2\, a2^3\, b1^5\, b2\, c1^3\, c2^2$$
$$- 36566016\, a1^2\, a2^3\, b1^5\, b2\, c1\, c2^4 + 887760\, a1^2\, a2^3\, b1^5\, c1^5\, c2$$
$$- 13152672\, a1^2\, a2^3\, b1^5\, c1^3\, c2^3 + 29294160\, a1^2\, a2^3\, b1^5\, c1\, c2^5 - 40824\, a1^2\, a2^3\, b1^4\, b2^7$$
$$+ 761184\, a1^2\, a2^3\, b1^4\, b2^6\, c2 + 5600664\, a1^2\, a2^3\, b1^4\, b2^5\, c1^2$$
$$- 813240\, a1^2\, a2^3\, b1^4\, b2^5\, c2^2 - 45770208\, a1^2\, a2^3\, b1^4\, b2^4\, c1^2\, c2$$
$$+ 2968920\, a1^2\, a2^3\, b1^4\, b2^4\, c2^3 + 9607680\, a1^2\, a2^3\, b1^4\, b2^3\, c1^4$$

$$- 56329368\, a1^2\, a2^3\, b1^4\, b2^3\, c1^2\, c2^2 - 6833160\, a1^2\, a2^3\, b1^4\, b2^3\, c2^4$$
$$- 2355480\, a1^2\, a2^3\, b1^4\, b2^2\, c1^4\, c2 + 191375232\, a1^2\, a2^3\, b1^4\, b2^2\, c1^2\, c2^3$$
$$+ 9393408\, a1^2\, a2^3\, b1^4\, b2^2\, c2^5 - 1210896\, a1^2\, a2^3\, b1^4\, b2\, c1^6$$
$$- 2355480\, a1^2\, a2^3\, b1^4\, b2\, c1^4\, c2^2 - 47843808\, a1^2\, a2^3\, b1^4\, b2\, c1^2\, c2^4$$
$$- 10133208\, a1^2\, a2^3\, b1^4\, b2\, c2^6 - 420120\, a1^2\, a2^3\, b1^4\, c1^6\, c2$$
$$+ 9607680\, a1^2\, a2^3\, b1^4\, c1^4\, c2^3 - 29405616\, a1^2\, a2^3\, b1^4\, c1^2\, c2^5$$
$$+ 4347000\, a1^2\, a2^3\, b1^4\, c2^7 - 436752\, a1^2\, a2^3\, b1^3\, b2^7\, c1 - 3727728\, a1^2\, a2^3\, b1^3\, b2^6\, c1\, c2$$
$$+ 3643064\, a1^2\, a2^3\, b1^3\, b2^5\, c1^3 + 1885680\, a1^2\, a2^3\, b1^3\, b2^5\, c1\, c2^2$$
$$+ 111699272\, a1^2\, a2^3\, b1^3\, b2^4\, c1^3\, c2 + 1790640\, a1^2\, a2^3\, b1^3\, b2^4\, c1\, c2^3$$
$$- 13152672\, a1^2\, a2^3\, b1^3\, b2^3\, c1^5 - 127583488\, a1^2\, a2^3\, b1^3\, b2^3\, c1^3\, c2^2$$
$$+ 1884384\, a1^2\, a2^3\, b1^3\, b2^2\, c1^5\, c2 - 127583488\, a1^2\, a2^3\, b1^3\, b2^2\, c1^3\, c2^3$$
$$+ 1884384\, a1^2\, a2^3\, b1^3\, b2^2\, c1\, c2^5 + 1142856\, a1^2\, a2^3\, b1^3\, b2\, c1^7$$
$$+ 2958768\, a1^2\, a2^3\, b1^3\, b2\, c1^5\, c2^2 + 111699272\, a1^2\, a2^3\, b1^3\, b2\, c1^3\, c2^4$$
$$+ 7023456\, a1^2\, a2^3\, b1^3\, b2\, c1\, c2^6 + 13176\, a1^2\, a2^3\, b1^3\, c1^7\, c2$$
$$- 4952880\, a1^2\, a2^3\, b1^3\, c1^5\, c2^3 + 3643064\, a1^2\, a2^3\, b1^3\, c1^3\, c2^5$$
$$- 7020000\, a1^2\, a2^3\, b1^3\, c1\, c2^7 - 17496\, a1^2\, a2^3\, b1^2\, b2^9 + 52488\, a1^2\, a2^3\, b1^2\, b2^8\, c2$$
$$+ 3390336\, a1^2\, a2^3\, b1^2\, b2^7\, c1^2 + 28512\, a1^2\, a2^3\, b1^2\, b2^7\, c2^2$$
$$+ 4440096\, a1^2\, a2^3\, b1^2\, b2^6\, c1^2\, c2 - 487944\, a1^2\, a2^3\, b1^2\, b2^6\, c2^3$$
$$- 29405616\, a1^2\, a2^3\, b1^2\, b2^5\, c1^4 - 8880192\, a1^2\, a2^3\, b1^2\, b2^5\, c1^2\, c2^2$$
$$+ 959040\, a1^2\, a2^3\, b1^2\, b2^5\, c2^4 - 47843808\, a1^2\, a2^3\, b1^2\, b2^4\, c1^4\, c2$$
$$- 1413288\, a1^2\, a2^3\, b1^2\, b2^4\, c2^5 + 13152672\, a1^2\, a2^3\, b1^2\, b2^3\, c1^6$$
$$+ 191375232\, a1^2\, a2^3\, b1^2\, b2^3\, c1^4\, c2^2 + 1884384\, a1^2\, a2^3\, b1^2\, b2^3\, c2^6$$
$$- 2960064\, a1^2\, a2^3\, b1^2\, b2^2\, c1^6\, c2 - 56329368\, a1^2\, a2^3\, b1^2\, b2^2\, c1^4\, c2^3$$
$$- 8880192\, a1^2\, a2^3\, b1^2\, b2^2\, c1^2\, c2^5 - 1408104\, a1^2\, a2^3\, b1^2\, b2^2\, c2^7$$
$$- 660312\, a1^2\, a2^3\, b1^2\, b2\, c1^8 - 3496608\, a1^2\, a2^3\, b1^2\, b2\, c1^6\, c2^2$$
$$- 45770208\, a1^2\, a2^3\, b1^2\, b2\, c1^4\, c2^4 + 4440096\, a1^2\, a2^3\, b1^2\, b2\, c1^2\, c2^6$$
$$+ 486648\, a1^2\, a2^3\, b1^2\, b2\, c2^8 + 122472\, a1^2\, a2^3\, b1^2\, c1^8\, c2 + 2248560\, a1^2\, a2^3\, b1^2\, c1^6\, c2^3$$
$$+ 5600664\, a1^2\, a2^3\, b1^2\, c1^4\, c2^5 + 3390336\, a1^2\, a2^3\, b1^2\, c1^2\, c2^7 - 84240\, a1^2\, a2^3\, b1^2\, c2^9$$
$$+ 87480\, a1^2\, a2^3\, b1\, b2^9\, c1 - 437400\, a1^2\, a2^3\, b1\, b2^8\, c1\, c2 - 7020000\, a1^2\, a2^3\, b1\, b2^7\, c1^3$$
$$+ 962280\, a1^2\, a2^3\, b1\, b2^7\, c1\, c2^2 + 7023456\, a1^2\, a2^3\, b1\, b2^6\, c1^3\, c2$$
$$- 612360\, a1^2\, a2^3\, b1\, b2^6\, c1\, c2^3 + 29294160\, a1^2\, a2^3\, b1\, b2^5\, c1^5$$
$$+ 1884384\, a1^2\, a2^3\, b1\, b2^5\, c1^3\, c2^2 - 36566016\, a1^2\, a2^3\, b1\, b2^4\, c1^5\, c2$$
$$- 8544960\, a1^2\, a2^3\, b1\, b2^3\, c1^7 - 47805576\, a1^2\, a2^3\, b1\, b2^3\, c1^5\, c2^2$$
$$+ 1790640\, a1^2\, a2^3\, b1\, b2^3\, c1^3\, c2^4 - 612360\, a1^2\, a2^3\, b1\, b2^3\, c1\, c2^6$$

$$+ 5124384\, a1^2\, a2^3\, b1\, b2^2\, c1^7\, c2 + 52935144\, a1^2\, a2^3\, b1\, b2^2\, c1^5\, c2^3$$
$$+ 1885680\, a1^2\, a2^3\, b1\, b2^2\, c1^3\, c2^5 + 962280\, a1^2\, a2^3\, b1\, b2^2\, c1\, c2^7$$
$$+ 206280\, a1^2\, a2^3\, b1\, b2\, c1^9 + 670032\, a1^2\, a2^3\, b1\, b2\, c1^7\, c2^2$$
$$- 2826576\, a1^2\, a2^3\, b1\, b2\, c1^5\, c2^4 - 3727728\, a1^2\, a2^3\, b1\, b2\, c1^3\, c2^6$$
$$- 437400\, a1^2\, a2^3\, b1\, b2\, c1\, c2^8 - 64152\, a1^2\, a2^3\, b1\, c1^9\, c2 - 740016\, a1^2\, a2^3\, b1\, c1^7\, c2^3$$
$$- 1200096\, a1^2\, a2^3\, b1\, c1^5\, c2^5 - 436752\, a1^2\, a2^3\, b1\, c1^3\, c2^7 + 87480\, a1^2\, a2^3\, b1\, c1\, c2^9$$
$$+ 432\, a1^2\, a2^3\, b2^{10}\, c2 - 84240\, a1^2\, a2^3\, b2^9\, c1^2 + 486648\, a1^2\, a2^3\, b2^8\, c1^2\, c2$$
$$- 6480\, a1^2\, a2^3\, b2^8\, c2^3 + 4347000\, a1^2\, a2^3\, b2^7\, c1^4 - 1408104\, a1^2\, a2^3\, b2^7\, c1^2\, c2^2$$
$$+ 15120\, a1^2\, a2^3\, b2^7\, c2^4 - 10133208\, a1^2\, a2^3\, b2^6\, c1^4\, c2 + 1884384\, a1^2\, a2^3\, b2^6\, c1^2\, c2^3$$
$$- 9072\, a1^2\, a2^3\, b2^6\, c2^5 - 8159624\, a1^2\, a2^3\, b2^5\, c1^6 + 9393408\, a1^2\, a2^3\, b2^5\, c1^4\, c2^2$$
$$- 1413288\, a1^2\, a2^3\, b2^5\, c1^2\, c2^4 - 9072\, a1^2\, a2^3\, b2^5\, c2^6 + 20704264\, a1^2\, a2^3\, b2^4\, c1^6\, c2$$
$$- 6833160\, a1^2\, a2^3\, b2^4\, c1^4\, c2^3 + 959040\, a1^2\, a2^3\, b2^4\, c1^2\, c2^5 + 15120\, a1^2\, a2^3\, b2^4\, c2^7$$
$$+ 2364120\, a1^2\, a2^3\, b2^3\, c1^8 - 9814616\, a1^2\, a2^3\, b2^3\, c1^6\, c2^2 + 2968920\, a1^2\, a2^3\, b2^3\, c1^4\, c2^4$$
$$- 487944\, a1^2\, a2^3\, b2^3\, c1^2\, c2^6 - 6480\, a1^2\, a2^3\, b2^3\, c2^8 - 2425464\, a1^2\, a2^3\, b2^2\, c1^8\, c2$$
$$- 3267216\, a1^2\, a2^3\, b2^2\, c1^6\, c2^3 - 813240\, a1^2\, a2^3\, b2^2\, c1^4\, c2^5 + 28512\, a1^2\, a2^3\, b2^2\, c1^2\, c2^7$$
$$- 28728\, a1^2\, a2^3\, b2\, c1^{10} + 600048\, a1^2\, a2^3\, b2\, c1^8\, c2^2 + 1337904\, a1^2\, a2^3\, b2\, c1^6\, c2^4$$
$$+ 761184\, a1^2\, a2^3\, b2\, c1^4\, c2^6 + 52488\, a1^2\, a2^3\, b2\, c1^2\, c2^8 + 432\, a1^2\, a2^3\, b2\, c2^{10}$$
$$+ 11664\, a1^2\, a2^3\, c1^{10}\, c2 + 17496\, a1^2\, a2^3\, c1^8\, c2^3 - 17496\, a1^2\, a2^3\, c1^6\, c2^5$$
$$- 40824\, a1^2\, a2^3\, c1^4\, c2^7 - 17496\, a1^2\, a2^3\, c1^2\, c2^9 + 4374\, a1^2\, a2^2\, b1^{10}\, b2^2$$
$$- 43740\, a1^2\, a2^2\, b1^{10}\, b2\, c2 - 648\, a1^2\, a2^2\, b1^{10}\, c1^2 + 64962\, a1^2\, a2^2\, b1^{10}\, c2^2$$
$$+ 8748\, a1^2\, a2^2\, b1^9\, b2^2\, c1 + 174960\, a1^2\, a2^2\, b1^9\, b2\, c1\, c2 + 2160\, a1^2\, a2^2\, b1^9\, c1^3$$
$$- 396900\, a1^2\, a2^2\, b1^9\, c1\, c2^2 + 17496\, a1^2\, a2^2\, b1^8\, b2^4 - 122472\, a1^2\, a2^2\, b1^8\, b2^3\, c2$$
$$- 118098\, a1^2\, a2^2\, b1^8\, b2^2\, c1^2 - 716364\, a1^2\, a2^2\, b1^8\, b2^2\, c2^2$$
$$- 131220\, a1^2\, a2^2\, b1^8\, b2\, c1^2\, c2 + 2903040\, a1^2\, a2^2\, b1^8\, b2\, c2^3$$
$$+ 1056078\, a1^2\, a2^2\, b1^8\, c1^2\, c2^2 - 2498850\, a1^2\, a2^2\, b1^8\, c2^4 - 17496\, a1^2\, a2^2\, b1^7\, b2^4\, c1$$
$$+ 2290032\, a1^2\, a2^2\, b1^7\, b2^3\, c1\, c2 + 286416\, a1^2\, a2^2\, b1^7\, b2^2\, c1^3$$
$$- 4440096\, a1^2\, a2^2\, b1^7\, b2^2\, c1\, c2^2 - 612360\, a1^2\, a2^2\, b1^7\, b2\, c1^3\, c2$$
$$- 2164320\, a1^2\, a2^2\, b1^7\, b2\, c1\, c2^3 - 9072\, a1^2\, a2^2\, b1^7\, c1^5 - 1408104\, a1^2\, a2^2\, b1^7\, c1^3\, c2^2$$
$$+ 6949800\, a1^2\, a2^2\, b1^7\, c1\, c2^4 + 26244\, a1^2\, a2^2\, b1^6\, b2^6 - 104976\, a1^2\, a2^2\, b1^6\, b2^5\, c2$$
$$- 1080540\, a1^2\, a2^2\, b1^6\, b2^4\, c1^2 - 1744416\, a1^2\, a2^2\, b1^6\, b2^4\, c2^2$$
$$- 2423520\, a1^2\, a2^2\, b1^6\, b2^3\, c1^2\, c2 + 5593104\, a1^2\, a2^2\, b1^6\, b2^3\, c2^3$$
$$- 135270\, a1^2\, a2^2\, b1^6\, b2^2\, c1^4 + 8880192\, a1^2\, a2^2\, b1^6\, b2^2\, c1^2\, c2^2$$
$$+ 3166134\, a1^2\, a2^2\, b1^6\, b2^2\, c2^4 + 1530900\, a1^2\, a2^2\, b1^6\, b2\, c1^4\, c2$$
$$- 2960064\, a1^2\, a2^2\, b1^6\, b2\, c1^2\, c2^3 - 13689012\, a1^2\, a2^2\, b1^6\, b2\, c2^5$$

$$+ 15120\, a1^2\, a2^2\, b1^6\, c1^6 + 1050894\, a1^2\, a2^2\, b1^6\, c1^4\, c2^2 - 9124488\, a1^2\, a2^2\, b1^6\, c1^2\, c2^4$$
$$+ 6361314\, a1^2\, a2^2\, b1^6\, c2^6 - 104976\, a1^2\, a2^2\, b1^5\, b2^6\, c1 + 4230144\, a1^2\, a2^2\, b1^5\, b2^5\, c1\, c2$$
$$+ 2974320\, a1^2\, a2^2\, b1^5\, b2^4\, c1^3 - 6335496\, a1^2\, a2^2\, b1^5\, b2^4\, c1\, c2^2$$
$$+ 2961360\, a1^2\, a2^2\, b1^5\, b2^3\, c1^3\, c2 - 44487816\, a1^2\, a2^2\, b1^5\, b2^3\, c1\, c2^3$$
$$- 413100\, a1^2\, a2^2\, b1^5\, b2^2\, c1^5 - 8880192\, a1^2\, a2^2\, b1^5\, b2^2\, c1^3\, c2^2$$
$$+ 69220044\, a1^2\, a2^2\, b1^5\, b2^2\, c1\, c2^4 - 1837080\, a1^2\, a2^2\, b1^5\, b2\, c1^5\, c2$$
$$+ 4035744\, a1^2\, a2^2\, b1^5\, b2\, c1^3\, c2^3 - 5748408\, a1^2\, a2^2\, b1^5\, b2\, c1\, c2^5$$
$$- 9072\, a1^2\, a2^2\, b1^5\, c1^7 - 413100\, a1^2\, a2^2\, b1^5\, c1^5\, c2^2 + 8855568\, a1^2\, a2^2\, b1^5\, c1^3\, c2^4$$
$$- 13689012\, a1^2\, a2^2\, b1^5\, c1\, c2^6 + 17496\, a1^2\, a2^2\, b1^4\, b2^8 - 17496\, a1^2\, a2^2\, b1^4\, b2^7\, c2$$
$$- 1744416\, a1^2\, a2^2\, b1^4\, b2^6\, c1^2 - 1080540\, a1^2\, a2^2\, b1^4\, b2^6\, c2^2$$
$$- 6335496\, a1^2\, a2^2\, b1^4\, b2^5\, c1^2\, c2 + 2974320\, a1^2\, a2^2\, b1^4\, b2^5\, c2^3$$
$$- 5944590\, a1^2\, a2^2\, b1^4\, b2^4\, c1^4 + 84494052\, a1^2\, a2^2\, b1^4\, b2^4\, c1^2\, c2^2$$
$$- 5944590\, a1^2\, a2^2\, b1^4\, b2^4\, c2^4 - 5044680\, a1^2\, a2^2\, b1^4\, b2^3\, c1^4\, c2$$
$$- 56329368\, a1^2\, a2^2\, b1^4\, b2^3\, c1^2\, c2^3 + 8855568\, a1^2\, a2^2\, b1^4\, b2^3\, c2^5$$
$$+ 1050894\, a1^2\, a2^2\, b1^4\, b2^2\, c1^6 + 11100240\, a1^2\, a2^2\, b1^4\, b2^2\, c1^4\, c2^2$$
$$- 101284398\, a1^2\, a2^2\, b1^4\, b2^2\, c1^2\, c2^4 - 9124488\, a1^2\, a2^2\, b1^4\, b2^2\, c2^6$$
$$+ 1530900\, a1^2\, a2^2\, b1^4\, b2\, c1^6\, c2 - 5044680\, a1^2\, a2^2\, b1^4\, b2\, c1^4\, c2^3$$
$$+ 69220044\, a1^2\, a2^2\, b1^4\, b2\, c1^2\, c2^5 + 6949800\, a1^2\, a2^2\, b1^4\, b2\, c2^7$$
$$- 135270\, a1^2\, a2^2\, b1^4\, c1^6\, c2^2 - 5944590\, a1^2\, a2^2\, b1^4\, c1^4\, c2^4$$
$$+ 3166134\, a1^2\, a2^2\, b1^4\, c1^2\, c2^6 - 2498850\, a1^2\, a2^2\, b1^4\, c2^8 - 122472\, a1^2\, a2^2\, b1^3\, b2^8\, c1$$
$$+ 2290032\, a1^2\, a2^2\, b1^3\, b2^7\, c1\, c2 + 5593104\, a1^2\, a2^2\, b1^3\, b2^6\, c1^3$$
$$- 2423520\, a1^2\, a2^2\, b1^3\, b2^6\, c1\, c2^2 - 44487816\, a1^2\, a2^2\, b1^3\, b2^5\, c1^3\, c2$$
$$+ 2961360\, a1^2\, a2^2\, b1^3\, b2^5\, c1\, c2^3 + 8855568\, a1^2\, a2^2\, b1^3\, b2^4\, c1^5$$
$$- 56329368\, a1^2\, a2^2\, b1^3\, b2^4\, c1^3\, c2^2 - 5044680\, a1^2\, a2^2\, b1^3\, b2^4\, c1\, c2^4$$
$$+ 4035744\, a1^2\, a2^2\, b1^3\, b2^3\, c1^5\, c2 + 202689312\, a1^2\, a2^2\, b1^3\, b2^3\, c1^3\, c2^3$$
$$+ 4035744\, a1^2\, a2^2\, b1^3\, b2^3\, c1\, c2^5 - 1408104\, a1^2\, a2^2\, b1^3\, b2^2\, c1^7$$
$$- 8880192\, a1^2\, a2^2\, b1^3\, b2^2\, c1^5\, c2^2 - 56329368\, a1^2\, a2^2\, b1^3\, b2^2\, c1^3\, c2^4$$
$$- 2960064\, a1^2\, a2^2\, b1^3\, b2^2\, c1\, c2^6 - 612360\, a1^2\, a2^2\, b1^3\, b2\, c1^7\, c2$$
$$+ 2961360\, a1^2\, a2^2\, b1^3\, b2\, c1^5\, c2^3 - 44487816\, a1^2\, a2^2\, b1^3\, b2\, c1^3\, c2^5$$
$$- 2164320\, a1^2\, a2^2\, b1^3\, b2\, c1\, c2^7 + 2160\, a1^2\, a2^2\, b1^3\, c1^9 + 286416\, a1^2\, a2^2\, b1^3\, c1^7\, c2^2$$
$$+ 2974320\, a1^2\, a2^2\, b1^3\, c1^5\, c2^4 + 5593104\, a1^2\, a2^2\, b1^3\, c1^3\, c2^6$$
$$+ 2903040\, a1^2\, a2^2\, b1^3\, c1\, c2^8 + 4374\, a1^2\, a2^2\, b1^2\, b2^{10} + 8748\, a1^2\, a2^2\, b1^2\, b2^9\, c2$$
$$- 716364\, a1^2\, a2^2\, b1^2\, b2^8\, c1^2 - 118098\, a1^2\, a2^2\, b1^2\, b2^8\, c2^2$$
$$- 4440096\, a1^2\, a2^2\, b1^2\, b2^7\, c1^2\, c2 + 286416\, a1^2\, a2^2\, b1^2\, b2^7\, c2^3$$

$$+ 3166134\, a1^2\, a2^2\, b1^2\, b2^6\, c1^4 + 8880192\, a1^2\, a2^2\, b1^2\, b2^6\, c1^2\, c2^2$$
$$- 135270\, a1^2\, a2^2\, b1^2\, b2^6\, c2^4 + 69220044\, a1^2\, a2^2\, b1^2\, b2^5\, c1^4\, c2$$
$$- 8880192\, a1^2\, a2^2\, b1^2\, b2^5\, c1^2\, c2^3 - 413100\, a1^2\, a2^2\, b1^2\, b2^5\, c2^5$$
$$- 9124488\, a1^2\, a2^2\, b1^2\, b2^4\, c1^6 - 101284398\, a1^2\, a2^2\, b1^2\, b2^4\, c1^4\, c2^2$$
$$+ 11100240\, a1^2\, a2^2\, b1^2\, b2^4\, c1^2\, c2^4 + 1050894\, a1^2\, a2^2\, b1^2\, b2^4\, c2^6$$
$$- 2960064\, a1^2\, a2^2\, b1^2\, b2^3\, c1^6\, c2 - 56329368\, a1^2\, a2^2\, b1^2\, b2^3\, c1^4\, c2^3$$
$$- 8880192\, a1^2\, a2^2\, b1^2\, b2^3\, c1^2\, c2^5 - 1408104\, a1^2\, a2^2\, b1^2\, b2^3\, c2^7$$
$$+ 1056078\, a1^2\, a2^2\, b1^2\, b2^2\, c1^8 + 8880192\, a1^2\, a2^2\, b1^2\, b2^2\, c1^6\, c2^2$$
$$+ 84494052\, a1^2\, a2^2\, b1^2\, b2^2\, c1^4\, c2^4 + 8880192\, a1^2\, a2^2\, b1^2\, b2^2\, c1^2\, c2^6$$
$$+ 1056078\, a1^2\, a2^2\, b1^2\, b2^2\, c2^8 - 131220\, a1^2\, a2^2\, b1^2\, b2\, c1^8\, c2$$
$$- 2423520\, a1^2\, a2^2\, b1^2\, b2\, c1^6\, c2^3 - 6335496\, a1^2\, a2^2\, b1^2\, b2\, c1^4\, c2^5$$
$$- 4440096\, a1^2\, a2^2\, b1^2\, b2\, c1^2\, c2^7 - 396900\, a1^2\, a2^2\, b1^2\, b2\, c2^9 - 648\, a1^2\, a2^2\, b1^2\, c1^{10}$$
$$- 118098\, a1^2\, a2^2\, b1^2\, c1^8\, c2^2 - 1080540\, a1^2\, a2^2\, b1^2\, c1^6\, c2^4$$
$$- 1744416\, a1^2\, a2^2\, b1^2\, c1^4\, c2^6 - 716364\, a1^2\, a2^2\, b1^2\, c1^2\, c2^8 + 64962\, a1^2\, a2^2\, b1^2\, c2^{10}$$
$$- 43740\, a1^2\, a2^2\, b1\, b2^{10}\, c1 + 174960\, a1^2\, a2^2\, b1\, b2^9\, c1\, c2 + 2903040\, a1^2\, a2^2\, b1\, b2^8\, c1^3$$
$$- 131220\, a1^2\, a2^2\, b1\, b2^8\, c1\, c2^2 - 2164320\, a1^2\, a2^2\, b1\, b2^7\, c1^3\, c2$$
$$- 612360\, a1^2\, a2^2\, b1\, b2^7\, c1\, c2^3 - 13689012\, a1^2\, a2^2\, b1\, b2^6\, c1^5$$
$$- 2960064\, a1^2\, a2^2\, b1\, b2^6\, c1^3\, c2^2 + 1530900\, a1^2\, a2^2\, b1\, b2^6\, c1\, c2^4$$
$$- 5748408\, a1^2\, a2^2\, b1\, b2^5\, c1^5\, c2 + 4035744\, a1^2\, a2^2\, b1\, b2^5\, c1^3\, c2^3$$
$$- 1837080\, a1^2\, a2^2\, b1\, b2^5\, c1\, c2^5 + 6949800\, a1^2\, a2^2\, b1\, b2^4\, c1^7$$
$$+ 69220044\, a1^2\, a2^2\, b1\, b2^4\, c1^5\, c2^2 - 5044680\, a1^2\, a2^2\, b1\, b2^4\, c1^3\, c2^4$$
$$+ 1530900\, a1^2\, a2^2\, b1\, b2^4\, c1\, c2^6 - 2164320\, a1^2\, a2^2\, b1\, b2^3\, c1^7\, c2$$
$$- 44487816\, a1^2\, a2^2\, b1\, b2^3\, c1^5\, c2^3 + 2961360\, a1^2\, a2^2\, b1\, b2^3\, c1^3\, c2^5$$
$$- 612360\, a1^2\, a2^2\, b1\, b2^3\, c1\, c2^7 - 396900\, a1^2\, a2^2\, b1\, b2^2\, c1^9$$
$$- 4440096\, a1^2\, a2^2\, b1\, b2^2\, c1^7\, c2^2 - 6335496\, a1^2\, a2^2\, b1\, b2^2\, c1^5\, c2^4$$
$$- 2423520\, a1^2\, a2^2\, b1\, b2^2\, c1^3\, c2^6 - 131220\, a1^2\, a2^2\, b1\, b2^2\, c1\, c2^8$$
$$+ 174960\, a1^2\, a2^2\, b1\, b2\, c1^9\, c2 + 2290032\, a1^2\, a2^2\, b1\, b2\, c1^7\, c2^3$$
$$+ 4230144\, a1^2\, a2^2\, b1\, b2\, c1^5\, c2^5 + 2290032\, a1^2\, a2^2\, b1\, b2\, c1^3\, c2^7$$
$$+ 174960\, a1^2\, a2^2\, b1\, b2\, c1\, c2^9 + 8748\, a1^2\, a2^2\, b1\, c1^9\, c2^2 - 17496\, a1^2\, a2^2\, b1\, c1^7\, c2^4$$
$$- 104976\, a1^2\, a2^2\, b1\, c1^5\, c2^6 - 122472\, a1^2\, a2^2\, b1\, c1^3\, c2^8 - 43740\, a1^2\, a2^2\, b1\, c1\, c2^{10}$$
$$+ 64962\, a1^2\, a2^2\, b2^{10}\, c1^2 - 648\, a1^2\, a2^2\, b2^{10}\, c2^2 - 396900\, a1^2\, a2^2\, b2^9\, c1^2\, c2$$
$$+ 2160\, a1^2\, a2^2\, b2^9\, c2^3 - 2498850\, a1^2\, a2^2\, b2^8\, c1^4 + 1056078\, a1^2\, a2^2\, b2^8\, c1^2\, c2^2$$
$$+ 6949800\, a1^2\, a2^2\, b2^7\, c1^4\, c2 - 1408104\, a1^2\, a2^2\, b2^7\, c1^2\, c2^3 - 9072\, a1^2\, a2^2\, b2^7\, c2^5$$
$$+ 6361314\, a1^2\, a2^2\, b2^6\, c1^6 - 9124488\, a1^2\, a2^2\, b2^6\, c1^4\, c2^2 + 1050894\, a1^2\, a2^2\, b2^6\, c1^2\, c2^4$$

$$+ 15120\, a1^2\, a2^2\, b2^6\, c2^6 - 13689012\, a1^2\, a2^2\, b2^5\, c1^6\, c2 + 8855568\, a1^2\, a2^2\, b2^5\, c1^4\, c2^3$$
$$- 413100\, a1^2\, a2^2\, b2^5\, c1^2\, c2^5 - 9072\, a1^2\, a2^2\, b2^5\, c2^7 - 2498850\, a1^2\, a2^2\, b2^4\, c1^8$$
$$+ 3166134\, a1^2\, a2^2\, b2^4\, c1^6\, c2^2 - 5944590\, a1^2\, a2^2\, b2^4\, c1^4\, c2^4$$
$$- 135270\, a1^2\, a2^2\, b2^4\, c1^2\, c2^6 + 2903040\, a1^2\, a2^2\, b2^3\, c1^8\, c2$$
$$+ 5593104\, a1^2\, a2^2\, b2^3\, c1^6\, c2^3 + 2974320\, a1^2\, a2^2\, b2^3\, c1^4\, c2^5$$
$$+ 286416\, a1^2\, a2^2\, b2^3\, c1^2\, c2^7 + 2160\, a1^2\, a2^2\, b2^3\, c2^9 + 64962\, a1^2\, a2^2\, b2^2\, c1^{10}$$
$$- 716364\, a1^2\, a2^2\, b2^2\, c1^8\, c2^2 - 1744416\, a1^2\, a2^2\, b2^2\, c1^6\, c2^4$$
$$- 1080540\, a1^2\, a2^2\, b2^2\, c1^4\, c2^6 - 118098\, a1^2\, a2^2\, b2^2\, c1^2\, c2^8 - 648\, a1^2\, a2^2\, b2^2\, c2^{10}$$
$$- 43740\, a1^2\, a2^2\, b2\, c1^{10}\, c2 - 122472\, a1^2\, a2^2\, b2\, c1^8\, c2^3 - 104976\, a1^2\, a2^2\, b2\, c1^6\, c2^5$$
$$- 17496\, a1^2\, a2^2\, b2\, c1^4\, c2^7 + 8748\, a1^2\, a2^2\, b2\, c1^2\, c2^9 + 4374\, a1^2\, a2^2\, c1^{10}\, c2^2$$
$$+ 17496\, a1^2\, a2^2\, c1^8\, c2^4 + 26244\, a1^2\, a2^2\, c1^6\, c2^6 + 17496\, a1^2\, a2^2\, c1^4\, c2^8$$
$$+ 4374\, a1^2\, a2^2\, c1^2\, c2^{10} - 8748\, a1^2\, a2\, b1^{10}\, b2^2\, c2 + 52488\, a1^2\, a2\, b1^{10}\, b2\, c2^2$$
$$+ 1296\, a1^2\, a2\, b1^{10}\, c1^2\, c2 - 60804\, a1^2\, a2\, b1^{10}\, c2^3 + 8748\, a1^2\, a2\, b1^9\, b2^3\, c1$$
$$- 43740\, a1^2\, a2\, b1^9\, b2^2\, c1\, c2 - 2160\, a1^2\, a2\, b1^9\, b2\, c1^3 - 131220\, a1^2\, a2\, b1^9\, b2\, c1\, c2^2$$
$$- 2160\, a1^2\, a2\, b1^9\, c1^3\, c2 + 308340\, a1^2\, a2\, b1^9\, c1\, c2^3 - 34992\, a1^2\, a2\, b1^8\, b2^4\, c2$$
$$- 8748\, a1^2\, a2\, b1^8\, b2^3\, c1^2 + 192456\, a1^2\, a2\, b1^8\, b2^3\, c2^2 + 262440\, a1^2\, a2\, b1^8\, b2^2\, c1^2\, c2$$
$$+ 285120\, a1^2\, a2\, b1^8\, b2^2\, c2^3 + 6480\, a1^2\, a2\, b1^8\, b2\, c1^4 - 131220\, a1^2\, a2\, b1^8\, b2\, c1^2\, c2^2$$
$$- 1594080\, a1^2\, a2\, b1^8\, b2\, c2^4 - 6480\, a1^2\, a2\, b1^8\, c1^4\, c2 - 660312\, a1^2\, a2\, b1^8\, c1^2\, c2^3$$
$$+ 1318356\, a1^2\, a2\, b1^8\, c2^5 + 34992\, a1^2\, a2\, b1^7\, b2^5\, c1 - 139968\, a1^2\, a2\, b1^7\, b2^4\, c1\, c2$$
$$- 74304\, a1^2\, a2\, b1^7\, b2^3\, c1^3 - 2010096\, a1^2\, a2\, b1^7\, b2^3\, c1\, c2^2$$
$$- 349920\, a1^2\, a2\, b1^7\, b2^2\, c1^3\, c2 + 4970160\, a1^2\, a2\, b1^7\, b2^2\, c1\, c2^3$$
$$- 1296\, a1^2\, a2\, b1^7\, b2\, c1^5 + 962280\, a1^2\, a2\, b1^7\, b2\, c1^3\, c2^2$$
$$- 1402920\, a1^2\, a2\, b1^7\, b2\, c1\, c2^4 + 19440\, a1^2\, a2\, b1^7\, c1^5\, c2 + 617976\, a1^2\, a2\, b1^7\, c1^3\, c2^3$$
$$- 2499336\, a1^2\, a2\, b1^7\, c1\, c2^5 - 52488\, a1^2\, a2\, b1^6\, b2^6\, c2 - 52488\, a1^2\, a2\, b1^6\, b2^5\, c1^2$$
$$+ 262440\, a1^2\, a2\, b1^6\, b2^5\, c2^2 + 2423520\, a1^2\, a2\, b1^6\, b2^4\, c1^2\, c2$$
$$+ 725544\, a1^2\, a2\, b1^6\, b2^4\, c2^3 + 192240\, a1^2\, a2\, b1^6\, b2^3\, c1^4$$
$$- 2423520\, a1^2\, a2\, b1^6\, b2^3\, c1^2\, c2^2 - 3522096\, a1^2\, a2\, b1^6\, b2^3\, c2^4$$
$$- 306180\, a1^2\, a2\, b1^6\, b2^2\, c1^4\, c2 - 3496608\, a1^2\, a2\, b1^6\, b2^2\, c1^2\, c2^3$$
$$+ 846804\, a1^2\, a2\, b1^6\, b2^2\, c2^5 - 15120\, a1^2\, a2\, b1^6\, b2\, c1^6 - 1224720\, a1^2\, a2\, b1^6\, b2\, c1^4\, c2^2$$
$$+ 3228336\, a1^2\, a2\, b1^6\, b2\, c1^2\, c2^4 + 4280736\, a1^2\, a2\, b1^6\, b2\, c2^6 - 15120\, a1^2\, a2\, b1^6\, c1^6\, c2$$
$$- 292356\, a1^2\, a2\, b1^6\, c1^4\, c2^3 + 3004128\, a1^2\, a2\, b1^6\, c1^2\, c2^5 - 2429052\, a1^2\, a2\, b1^6\, c2^7$$
$$+ 52488\, a1^2\, a2\, b1^5\, b2^7\, c1 - 157464\, a1^2\, a2\, b1^5\, b2^6\, c1\, c2 - 705024\, a1^2\, a2\, b1^5\, b2^5\, c1^3$$
$$- 3757752\, a1^2\, a2\, b1^5\, b2^5\, c1\, c2^2 - 2423520\, a1^2\, a2\, b1^5\, b2^4\, c1^3\, c2$$
$$+ 10486584\, a1^2\, a2\, b1^5\, b2^4\, c1\, c2^3 - 30780\, a1^2\, a2\, b1^5\, b2^3\, c1^5$$

$$+ 1885680\, a1^2\, a2\, b1^5\, b2^3\, c1^3\, c2^2 + 11757324\, a1^2\, a2\, b1^5\, b2^3\, c1\, c2^4$$
$$+ 918540\, a1^2\, a2\, b1^5\, b2^2\, c1^5\, c2 + 4034448\, a1^2\, a2\, b1^5\, b2^2\, c1^3\, c2^3$$
$$- 34742412\, a1^2\, a2\, b1^5\, b2^2\, c1\, c2^5 + 19440\, a1^2\, a2\, b1^5\, b2\, c1^7$$
$$+ 918540\, a1^2\, a2\, b1^5\, b2\, c1^5\, c2^2 - 4035096\, a1^2\, a2\, b1^5\, b2\, c1^3\, c2^4$$
$$+ 13496940\, a1^2\, a2\, b1^5\, b2\, c1\, c2^6 - 1296\, a1^2\, a2\, b1^5\, c1^7\, c2 - 30780\, a1^2\, a2\, b1^5\, c1^5\, c2^3$$
$$- 2735208\, a1^2\, a2\, b1^5\, c1^3\, c2^5 + 1983012\, a1^2\, a2\, b1^5\, c1\, c2^7 - 34992\, a1^2\, a2\, b1^4\, b2^8\, c2$$
$$- 104976\, a1^2\, a2\, b1^4\, b2^7\, c1^2 + 157464\, a1^2\, a2\, b1^4\, b2^7\, c2^2$$
$$+ 4223664\, a1^2\, a2\, b1^4\, b2^6\, c1^2\, c2 + 352944\, a1^2\, a2\, b1^4\, b2^6\, c2^3$$
$$+ 1503360\, a1^2\, a2\, b1^4\, b2^5\, c1^4 - 6335496\, a1^2\, a2\, b1^4\, b2^5\, c1^2\, c2^2$$
$$- 2016576\, a1^2\, a2\, b1^4\, b2^5\, c2^4 + 4372380\, a1^2\, a2\, b1^4\, b2^4\, c1^4\, c2$$
$$- 45770208\, a1^2\, a2\, b1^4\, b2^4\, c1^2\, c2^3 + 4394412\, a1^2\, a2\, b1^4\, b2^4\, c2^5$$
$$- 292356\, a1^2\, a2\, b1^4\, b2^3\, c1^6 - 3700080\, a1^2\, a2\, b1^4\, b2^3\, c1^4\, c2^2$$
$$+ 73934892\, a1^2\, a2\, b1^4\, b2^3\, c1^2\, c2^4 - 5881464\, a1^2\, a2\, b1^4\, b2^3\, c2^6$$
$$- 1224720\, a1^2\, a2\, b1^4\, b2^2\, c1^6\, c2 - 3700080\, a1^2\, a2\, b1^4\, b2^2\, c1^4\, c2^3$$
$$- 3847176\, a1^2\, a2\, b1^4\, b2^2\, c1^2\, c2^5 + 5127624\, a1^2\, a2\, b1^4\, b2^2\, c2^7$$
$$- 6480\, a1^2\, a2\, b1^4\, b2\, c1^8 - 306180\, a1^2\, a2\, b1^4\, b2\, c1^6\, c2^2$$
$$+ 4372380\, a1^2\, a2\, b1^4\, b2\, c1^4\, c2^4 - 21790956\, a1^2\, a2\, b1^4\, b2\, c1^2\, c2^6$$
$$- 3019356\, a1^2\, a2\, b1^4\, b2\, c2^8 + 6480\, a1^2\, a2\, b1^4\, c1^8\, c2 + 192240\, a1^2\, a2\, b1^4\, c1^6\, c2^3$$
$$+ 1503360\, a1^2\, a2\, b1^4\, c1^4\, c2^5 + 2208384\, a1^2\, a2\, b1^4\, c1^2\, c2^7 + 890784\, a1^2\, a2\, b1^4\, c2^9$$
$$+ 34992\, a1^2\, a2\, b1^3\, b2^9\, c1 - 69984\, a1^2\, a2\, b1^3\, b2^8\, c1\, c2 - 1195776\, a1^2\, a2\, b1^3\, b2^7\, c1^3$$
$$- 2010096\, a1^2\, a2\, b1^3\, b2^7\, c1\, c2^2 - 2815776\, a1^2\, a2\, b1^3\, b2^6\, c1^3\, c2$$
$$+ 6305904\, a1^2\, a2\, b1^3\, b2^6\, c1\, c2^3 - 2735208\, a1^2\, a2\, b1^3\, b2^5\, c1^5$$
$$+ 52935144\, a1^2\, a2\, b1^3\, b2^5\, c1^3\, c2^2 - 10939536\, a1^2\, a2\, b1^3\, b2^5\, c1\, c2^4$$
$$- 4035096\, a1^2\, a2\, b1^3\, b2^4\, c1^5\, c2 - 50672328\, a1^2\, a2\, b1^3\, b2^4\, c1^3\, c2^3$$
$$+ 12957408\, a1^2\, a2\, b1^3\, b2^4\, c1\, c2^5 + 617976\, a1^2\, a2\, b1^3\, b2^3\, c1^7$$
$$+ 4034448\, a1^2\, a2\, b1^3\, b2^3\, c1^5\, c2^2 - 50672328\, a1^2\, a2\, b1^3\, b2^3\, c1^3\, c2^4$$
$$- 9983520\, a1^2\, a2\, b1^3\, b2^3\, c1\, c2^6 + 962280\, a1^2\, a2\, b1^3\, b2^2\, c1^7\, c2$$
$$+ 1885680\, a1^2\, a2\, b1^3\, b2^2\, c1^5\, c2^3 + 52935144\, a1^2\, a2\, b1^3\, b2^2\, c1^3\, c2^5$$
$$+ 5124384\, a1^2\, a2\, b1^3\, b2^2\, c1\, c2^7 - 2160\, a1^2\, a2\, b1^3\, b2\, c1^9$$
$$- 349920\, a1^2\, a2\, b1^3\, b2\, c1^7\, c2^2 - 2423520\, a1^2\, a2\, b1^3\, b2\, c1^5\, c2^4$$
$$- 2815776\, a1^2\, a2\, b1^3\, b2\, c1^3\, c2^6 - 740016\, a1^2\, a2\, b1^3\, b2\, c1\, c2^8$$
$$- 2160\, a1^2\, a2\, b1^3\, c1^9\, c2 - 74304\, a1^2\, a2\, b1^3\, c1^7\, c2^3 - 705024\, a1^2\, a2\, b1^3\, c1^5\, c2^5$$
$$- 1195776\, a1^2\, a2\, b1^3\, c1^3\, c2^7 - 562896\, a1^2\, a2\, b1^3\, c1\, c2^9 - 8748\, a1^2\, a2\, b1^2\, b2^{10}\, c2$$
$$- 87480\, a1^2\, a2\, b1^2\, b2^9\, c1^2 + 34992\, a1^2\, a2\, b1^2\, b2^9\, c2^2 + 2220048\, a1^2\, a2\, b1^2\, b2^8\, c1^2\, c2$$

$$- 26244\, a1^2\, a2\, b1^2\, b2^8\, c2^3 + 2208384\, a1^2\, a2\, b1^2\, b2^7\, c1^4$$
$$- 4440096\, a1^2\, a2\, b1^2\, b2^7\, c1^2\, c2^2 - 90720\, a1^2\, a2\, b1^2\, b2^7\, c2^4$$
$$- 21790956\, a1^2\, a2\, b1^2\, b2^6\, c1^4\, c2 + 4440096\, a1^2\, a2\, b1^2\, b2^6\, c1^2\, c2^3$$
$$+ 181116\, a1^2\, a2\, b1^2\, b2^6\, c2^5 + 3004128\, a1^2\, a2\, b1^2\, b2^5\, c1^6$$
$$- 3847176\, a1^2\, a2\, b1^2\, b2^5\, c1^4\, c2^2 - 2220048\, a1^2\, a2\, b1^2\, b2^5\, c1^2\, c2^4$$
$$- 43416\, a1^2\, a2\, b1^2\, b2^5\, c2^6 + 3228336\, a1^2\, a2\, b1^2\, b2^4\, c1^6\, c2$$
$$+ 73934892\, a1^2\, a2\, b1^2\, b2^4\, c1^4\, c2^3 - 2220048\, a1^2\, a2\, b1^2\, b2^4\, c1^2\, c2^5$$
$$- 269244\, a1^2\, a2\, b1^2\, b2^4\, c2^7 - 660312\, a1^2\, a2\, b1^2\, b2^3\, c1^8$$
$$- 3496608\, a1^2\, a2\, b1^2\, b2^3\, c1^6\, c2^2 - 45770208\, a1^2\, a2\, b1^2\, b2^3\, c1^4\, c2^4$$
$$+ 4440096\, a1^2\, a2\, b1^2\, b2^3\, c1^2\, c2^6 + 486648\, a1^2\, a2\, b1^2\, b2^3\, c2^8$$
$$- 131220\, a1^2\, a2\, b1^2\, b2^2\, c1^8\, c2 - 2423520\, a1^2\, a2\, b1^2\, b2^2\, c1^6\, c2^3$$
$$- 6335496\, a1^2\, a2\, b1^2\, b2^2\, c1^4\, c2^5 - 4440096\, a1^2\, a2\, b1^2\, b2^2\, c1^2\, c2^7$$
$$- 396900\, a1^2\, a2\, b1^2\, b2^2\, c2^9 + 1296\, a1^2\, a2\, b1^2\, b2\, c1^{10} + 262440\, a1^2\, a2\, b1^2\, b2\, c1^8\, c2^2$$
$$+ 2423520\, a1^2\, a2\, b1^2\, b2\, c1^6\, c2^4 + 4223664\, a1^2\, a2\, b1^2\, b2\, c1^4\, c2^6$$
$$+ 2220048\, a1^2\, a2\, b1^2\, b2\, c1^2\, c2^8 + 158760\, a1^2\, a2\, b1^2\, b2\, c2^{10} - 8748\, a1^2\, a2\, b1^2\, c1^8\, c2^3$$
$$- 52488\, a1^2\, a2\, b1^2\, c1^6\, c2^5 - 104976\, a1^2\, a2\, b1^2\, c1^4\, c2^7 - 87480\, a1^2\, a2\, b1^2\, c1^2\, c2^9$$
$$- 26244\, a1^2\, a2\, b1^2\, c2^{11} + 8748\, a1^2\, a2\, b1\, b2^{11}\, c1 - 8748\, a1^2\, a2\, b1\, b2^{10}\, c1\, c2$$
$$- 562896\, a1^2\, a2\, b1\, b2^9\, c1^3 - 131220\, a1^2\, a2\, b1\, b2^9\, c1\, c2^2$$
$$- 740016\, a1^2\, a2\, b1\, b2^8\, c1^3\, c2 + 481140\, a1^2\, a2\, b1\, b2^8\, c1\, c2^3$$
$$+ 1983012\, a1^2\, a2\, b1\, b2^7\, c1^5 + 5124384\, a1^2\, a2\, b1\, b2^7\, c1^3\, c2^2$$
$$- 656100\, a1^2\, a2\, b1\, b2^7\, c1\, c2^4 + 13496940\, a1^2\, a2\, b1\, b2^6\, c1^5\, c2$$
$$- 9983520\, a1^2\, a2\, b1\, b2^6\, c1^3\, c2^3 + 306180\, a1^2\, a2\, b1\, b2^6\, c1\, c2^5$$
$$- 2499336\, a1^2\, a2\, b1\, b2^5\, c1^7 - 34742412\, a1^2\, a2\, b1\, b2^5\, c1^5\, c2^2$$
$$+ 12957408\, a1^2\, a2\, b1\, b2^5\, c1^3\, c2^4 + 306180\, a1^2\, a2\, b1\, b2^5\, c1\, c2^6$$
$$- 1402920\, a1^2\, a2\, b1\, b2^4\, c1^7\, c2 + 11757324\, a1^2\, a2\, b1\, b2^4\, c1^5\, c2^3$$
$$- 10939536\, a1^2\, a2\, b1\, b2^4\, c1^3\, c2^5 - 656100\, a1^2\, a2\, b1\, b2^4\, c1\, c2^7$$
$$+ 308340\, a1^2\, a2\, b1\, b2^3\, c1^9 + 4970160\, a1^2\, a2\, b1\, b2^3\, c1^7\, c2^2$$
$$+ 10486584\, a1^2\, a2\, b1\, b2^3\, c1^5\, c2^4 + 6305904\, a1^2\, a2\, b1\, b2^3\, c1^3\, c2^6$$
$$+ 481140\, a1^2\, a2\, b1\, b2^3\, c1\, c2^8 - 131220\, a1^2\, a2\, b1\, b2^2\, c1^9\, c2$$
$$- 2010096\, a1^2\, a2\, b1\, b2^2\, c1^7\, c2^3 - 3757752\, a1^2\, a2\, b1\, b2^2\, c1^5\, c2^5$$
$$- 2010096\, a1^2\, a2\, b1\, b2^2\, c1^3\, c2^7 - 131220\, a1^2\, a2\, b1\, b2^2\, c1\, c2^9$$
$$- 43740\, a1^2\, a2\, b1\, b2\, c1^9\, c2^2 - 139968\, a1^2\, a2\, b1\, b2\, c1^7\, c2^4$$
$$- 157464\, a1^2\, a2\, b1\, b2\, c1^5\, c2^6 - 69984\, a1^2\, a2\, b1\, b2\, c1^3\, c2^8$$
$$- 8748\, a1^2\, a2\, b1\, b2\, c1\, c2^{10} + 8748\, a1^2\, a2\, b1\, c1^9\, c2^3 + 34992\, a1^2\, a2\, b1\, c1^7\, c2^5$$

$$+ 52488\, a1^2\, a2\, b1\, c1^5\, c2^7 + 34992\, a1^2\, a2\, b1\, c1^3\, c2^9 + 8748\, a1^2\, a2\, b1\, c1\, c2^{11}$$
$$- 26244\, a1^2\, a2\, b2^{11}\, c1^2 + 158760\, a1^2\, a2\, b2^{10}\, c1^2\, c2 + 432\, a1^2\, a2\, b2^{10}\, c2^3$$
$$+ 890784\, a1^2\, a2\, b2^9\, c1^4 - 396900\, a1^2\, a2\, b2^9\, c1^2\, c2^2 - 2160\, a1^2\, a2\, b2^9\, c2^4$$
$$- 3019356\, a1^2\, a2\, b2^8\, c1^4\, c2 + 486648\, a1^2\, a2\, b2^8\, c1^2\, c2^3 + 3888\, a1^2\, a2\, b2^8\, c2^5$$
$$- 2429052\, a1^2\, a2\, b2^7\, c1^6 + 5127624\, a1^2\, a2\, b2^7\, c1^4\, c2^2 - 269244\, a1^2\, a2\, b2^7\, c1^2\, c2^4$$
$$- 2160\, a1^2\, a2\, b2^7\, c2^6 + 4280736\, a1^2\, a2\, b2^6\, c1^6\, c2 - 5881464\, a1^2\, a2\, b2^6\, c1^4\, c2^3$$
$$- 43416\, a1^2\, a2\, b2^6\, c1^2\, c2^5 - 2160\, a1^2\, a2\, b2^6\, c2^7 + 1318356\, a1^2\, a2\, b2^5\, c1^8$$
$$+ 846804\, a1^2\, a2\, b2^5\, c1^6\, c2^2 + 4394412\, a1^2\, a2\, b2^5\, c1^4\, c2^4 + 181116\, a1^2\, a2\, b2^5\, c1^2\, c2^6$$
$$+ 3888\, a1^2\, a2\, b2^5\, c2^8 - 1594080\, a1^2\, a2\, b2^4\, c1^8\, c2 - 3522096\, a1^2\, a2\, b2^4\, c1^6\, c2^3$$
$$- 2016576\, a1^2\, a2\, b2^4\, c1^4\, c2^5 - 90720\, a1^2\, a2\, b2^4\, c1^2\, c2^7 - 2160\, a1^2\, a2\, b2^4\, c2^9$$
$$- 60804\, a1^2\, a2\, b2^3\, c1^{10} + 285120\, a1^2\, a2\, b2^3\, c1^8\, c2^2 + 725544\, a1^2\, a2\, b2^3\, c1^6\, c2^4$$
$$+ 352944\, a1^2\, a2\, b2^3\, c1^4\, c2^6 - 26244\, a1^2\, a2\, b2^3\, c1^2\, c2^8 + 432\, a1^2\, a2\, b2^3\, c2^{10}$$
$$+ 52488\, a1^2\, a2\, b2^2\, c1^{10}\, c2 + 192456\, a1^2\, a2\, b2^2\, c1^8\, c2^3 + 262440\, a1^2\, a2\, b2^2\, c1^6\, c2^5$$
$$+ 157464\, a1^2\, a2\, b2^2\, c1^4\, c2^7 + 34992\, a1^2\, a2\, b2^2\, c1^2\, c2^9 - 8748\, a1^2\, a2\, b2\, c1^{10}\, c2^2$$
$$- 34992\, a1^2\, a2\, b2\, c1^8\, c2^4 - 52488\, a1^2\, a2\, b2\, c1^6\, c2^6 - 34992\, a1^2\, a2\, b2\, c1^4\, c2^8$$
$$- 8748\, a1^2\, a2\, b2\, c1^2\, c2^{10} + 4374\, a1^2\, b1^{10}\, b2^2\, c2^2 - 20412\, a1^2\, b1^{10}\, b2\, c2^3$$
$$- 648\, a1^2\, b1^{10}\, c1^2\, c2^2 + 20304\, a1^2\, b1^{10}\, c2^4 - 8748\, a1^2\, b1^9\, b2^3\, c1\, c2$$
$$+ 34992\, a1^2\, b1^9\, b2^2\, c1\, c2^2 + 2160\, a1^2\, b1^9\, b2\, c1^3\, c2 + 20412\, a1^2\, b1^9\, b2\, c1\, c2^3$$
$$- 82188\, a1^2\, b1^9\, c1\, c2^4 + 4374\, a1^2\, b1^8\, b2^4\, c1^2 + 17496\, a1^2\, b1^8\, b2^4\, c2^2$$
$$- 8748\, a1^2\, b1^8\, b2^3\, c1^2\, c2 - 87480\, a1^2\, b1^8\, b2^3\, c2^3 - 1620\, a1^2\, b1^8\, b2^2\, c1^4$$
$$- 118098\, a1^2\, b1^8\, b2^2\, c1^2\, c2^2 - 5670\, a1^2\, b1^8\, b2^2\, c2^4 - 3240\, a1^2\, b1^8\, b2\, c1^4\, c2$$
$$+ 122472\, a1^2\, b1^8\, b2\, c1^2\, c2^3 + 321084\, a1^2\, b1^8\, b2\, c2^5 + 4860\, a1^2\, b1^8\, c1^4\, c2^2$$
$$+ 134460\, a1^2\, b1^8\, c1^2\, c2^4 - 273240\, a1^2\, b1^8\, c2^6 - 34992\, a1^2\, b1^7\, b2^5\, c1\, c2$$
$$- 5832\, a1^2\, b1^7\, b2^4\, c1^3 + 157464\, a1^2\, b1^7\, b2^4\, c1\, c2^2 + 97632\, a1^2\, b1^7\, b2^3\, c1^3\, c2$$
$$+ 460080\, a1^2\, b1^7\, b2^3\, c1\, c2^3 + 3888\, a1^2\, b1^7\, b2^2\, c1^5 + 28512\, a1^2\, b1^7\, b2^2\, c1^3\, c2^2$$
$$- 1587600\, a1^2\, b1^7\, b2^2\, c1\, c2^4 - 6480\, a1^2\, b1^7\, b2\, c1^5\, c2 - 339768\, a1^2\, b1^7\, b2\, c1^3\, c2^3$$
$$+ 915624\, a1^2\, b1^7\, b2\, c1\, c2^5 - 6480\, a1^2\, b1^7\, c1^5\, c2^2 - 69552\, a1^2\, b1^7\, c1^3\, c2^4$$
$$+ 263952\, a1^2\, b1^7\, c1\, c2^6 + 17496\, a1^2\, b1^6\, b2^6\, c1^2 + 26244\, a1^2\, b1^6\, b2^6\, c2^2$$
$$- 52488\, a1^2\, b1^6\, b2^5\, c1^2\, c2 - 139968\, a1^2\, b1^6\, b2^5\, c2^3 - 20898\, a1^2\, b1^6\, b2^4\, c1^4$$
$$- 1080540\, a1^2\, b1^6\, b2^4\, c1^2\, c2^2 - 6426\, a1^2\, b1^6\, b2^4\, c2^4 - 108648\, a1^2\, b1^6\, b2^3\, c1^4\, c2$$
$$+ 2248560\, a1^2\, b1^6\, b2^3\, c1^2\, c2^3 + 709560\, a1^2\, b1^6\, b2^3\, c2^5 + 316062\, a1^2\, b1^6\, b2^2\, c1^4\, c2^2$$
$$- 812268\, a1^2\, b1^6\, b2^2\, c1^2\, c2^4 - 495914\, a1^2\, b1^6\, b2^2\, c2^6 + 15120\, a1^2\, b1^6\, b2\, c1^6\, c2$$
$$+ 197532\, a1^2\, b1^6\, b2\, c1^4\, c2^3 - 320760\, a1^2\, b1^6\, b2\, c1^2\, c2^5 - 469844\, a1^2\, b1^6\, b2\, c2^7$$
$$+ 23706\, a1^2\, b1^6\, c1^4\, c2^4 - 447228\, a1^2\, b1^6\, c1^2\, c2^6 + 362362\, a1^2\, b1^6\, c2^8$$

$$- 52488\, a1^2\, b1^5\, b2^7\, c1\, c2 - 17496\, a1^2\, b1^5\, b2^6\, c1^3 + 262440\, a1^2\, b1^5\, b2^6\, c1\, c2^2$$
$$+ 810000\, a1^2\, b1^5\, b2^5\, c1^3\, c2 + 727704\, a1^2\, b1^5\, b2^5\, c1\, c2^3 + 43740\, a1^2\, b1^5\, b2^4\, c1^5$$
$$- 813240\, a1^2\, b1^5\, b2^4\, c1^3\, c2^2 - 3531276\, a1^2\, b1^5\, b2^4\, c1\, c2^4 - 144180\, a1^2\, b1^5\, b2^3\, c1^5\, c2$$
$$+ 455760\, a1^2\, b1^5\, b2^3\, c1^3\, c2^3 + 473556\, a1^2\, b1^5\, b2^3\, c1\, c2^5 - 6480\, a1^2\, b1^5\, b2^2\, c1^7$$
$$- 243000\, a1^2\, b1^5\, b2^2\, c1^5\, c2^2 - 1350432\, a1^2\, b1^5\, b2^2\, c1^3\, c2^4$$
$$+ 5553624\, a1^2\, b1^5\, b2^2\, c1\, c2^6 - 6480\, a1^2\, b1^5\, b2\, c1^7\, c2 - 144180\, a1^2\, b1^5\, b2\, c1^5\, c2^3$$
$$+ 1347192\, a1^2\, b1^5\, b2\, c1^3\, c2^5 - 3514884\, a1^2\, b1^5\, b2\, c1\, c2^7 + 3888\, a1^2\, b1^5\, c1^7\, c2^2$$
$$+ 43740\, a1^2\, b1^5\, c1^5\, c2^4 + 231336\, a1^2\, b1^5\, c1^3\, c2^6 + 191484\, a1^2\, b1^5\, c1\, c2^8$$
$$+ 26244\, a1^2\, b1^4\, b2^8\, c1^2 + 17496\, a1^2\, b1^4\, b2^8\, c2^2 - 104976\, a1^2\, b1^4\, b2^7\, c1^2\, c2$$
$$- 99144\, a1^2\, b1^4\, b2^7\, c2^3 - 185490\, a1^2\, b1^4\, b2^6\, c1^4 - 1744416\, a1^2\, b1^4\, b2^6\, c1^2\, c2^2$$
$$+ 85266\, a1^2\, b1^4\, b2^6\, c2^4 - 390420\, a1^2\, b1^4\, b2^5\, c1^4\, c2 + 5600664\, a1^2\, b1^4\, b2^5\, c1^2\, c2^3$$
$$+ 300996\, a1^2\, b1^4\, b2^5\, c2^5 + 23706\, a1^2\, b1^4\, b2^4\, c1^6 - 1210140\, a1^2\, b1^4\, b2^4\, c1^4\, c2^2$$
$$+ 4441722\, a1^2\, b1^4\, b2^4\, c1^2\, c2^4 - 983232\, a1^2\, b1^4\, b2^4\, c2^6 + 197532\, a1^2\, b1^4\, b2^3\, c1^6\, c2$$
$$+ 2846880\, a1^2\, b1^4\, b2^3\, c1^4\, c2^3 - 18340356\, a1^2\, b1^4\, b2^3\, c1^2\, c2^5$$
$$+ 1402056\, a1^2\, b1^4\, b2^3\, c2^7 + 4860\, a1^2\, b1^4\, b2^2\, c1^8 + 316062\, a1^2\, b1^4\, b2^2\, c1^6\, c2^2$$
$$- 1210140\, a1^2\, b1^4\, b2^2\, c1^4\, c2^4 + 9811374\, a1^2\, b1^4\, b2^2\, c1^2\, c2^6 - 1166724\, a1^2\, b1^4\, b2^2\, c2^8$$
$$- 3240\, a1^2\, b1^4\, b2\, c1^8\, c2 - 108648\, a1^2\, b1^4\, b2\, c1^6\, c2^3 - 390420\, a1^2\, b1^4\, b2\, c1^4\, c2^5$$
$$+ 309744\, a1^2\, b1^4\, b2\, c1^2\, c2^7 + 594756\, a1^2\, b1^4\, b2\, c2^9 - 1620\, a1^2\, b1^4\, c1^8\, c2^2$$
$$- 20898\, a1^2\, b1^4\, c1^6\, c2^4 - 185490\, a1^2\, b1^4\, c1^4\, c2^6 - 314766\, a1^2\, b1^4\, c1^2\, c2^8$$
$$- 148554\, a1^2\, b1^4\, c2^{10} - 34992\, a1^2\, b1^3\, b2^9\, c1\, c2 - 17496\, a1^2\, b1^3\, b2^8\, c1^3$$
$$+ 192456\, a1^2\, b1^3\, b2^8\, c1\, c2^2 + 1335744\, a1^2\, b1^3\, b2^7\, c1^3\, c2 + 156816\, a1^2\, b1^3\, b2^7\, c1\, c2^3$$
$$+ 231336\, a1^2\, b1^3\, b2^6\, c1^5 - 3267216\, a1^2\, b1^3\, b2^6\, c1^3\, c2^2 - 1850904\, a1^2\, b1^3\, b2^6\, c1\, c2^4$$
$$+ 1347192\, a1^2\, b1^3\, b2^5\, c1^5\, c2 - 11110616\, a1^2\, b1^3\, b2^5\, c1^3\, c2^3$$
$$+ 4408992\, a1^2\, b1^3\, b2^5\, c1\, c2^5 - 69552\, a1^2\, b1^3\, b2^4\, c1^7 - 1350432\, a1^2\, b1^3\, b2^4\, c1^5\, c2^2$$
$$+ 26556352\, a1^2\, b1^3\, b2^4\, c1^3\, c2^4 - 5833728\, a1^2\, b1^3\, b2^4\, c1\, c2^6$$
$$- 339768\, a1^2\, b1^3\, b2^3\, c1^7\, c2 + 455760\, a1^2\, b1^3\, b2^3\, c1^5\, c2^3$$
$$- 11110616\, a1^2\, b1^3\, b2^3\, c1^3\, c2^5 + 4759776\, a1^2\, b1^3\, b2^3\, c1\, c2^7$$
$$+ 28512\, a1^2\, b1^3\, b2^2\, c1^7\, c2^2 - 813240\, a1^2\, b1^3\, b2^2\, c1^5\, c2^4 - 3267216\, a1^2\, b1^3\, b2^2\, c1^3\, c2^6$$
$$- 2425464\, a1^2\, b1^3\, b2^2\, c1\, c2^8 + 2160\, a1^2\, b1^3\, b2\, c1^9\, c2 + 97632\, a1^2\, b1^3\, b2\, c1^7\, c2^3$$
$$+ 810000\, a1^2\, b1^3\, b2\, c1^5\, c2^5 + 1335744\, a1^2\, b1^3\, b2\, c1^3\, c2^7 + 621216\, a1^2\, b1^3\, b2\, c1\, c2^9$$
$$- 5832\, a1^2\, b1^3\, c1^7\, c2^4 - 17496\, a1^2\, b1^3\, c1^5\, c2^6 - 17496\, a1^2\, b1^3\, c1^3\, c2^8$$
$$- 5832\, a1^2\, b1^3\, c1\, c2^{10} + 17496\, a1^2\, b1^2\, b2^{10}\, c1^2 + 4374\, a1^2\, b1^2\, b2^{10}\, c2^2$$
$$- 87480\, a1^2\, b1^2\, b2^9\, c1^2\, c2 - 26244\, a1^2\, b1^2\, b2^9\, c2^3 - 314766\, a1^2\, b1^2\, b2^8\, c1^4$$
$$- 716364\, a1^2\, b1^2\, b2^8\, c1^2\, c2^2 + 65610\, a1^2\, b1^2\, b2^8\, c2^4 + 309744\, a1^2\, b1^2\, b2^7\, c1^4\, c2$$

$$+ 3390336\, a1^2\, b1^2\, b2^7\, c1^2\, c2^3 - 86832\, a1^2\, b1^2\, b2^7\, c2^5 - 447228\, a1^2\, b1^2\, b2^6\, c1^6$$
$$+ 9811374\, a1^2\, b1^2\, b2^6\, c1^4\, c2^2 - 7043112\, a1^2\, b1^2\, b2^6\, c1^2\, c2^4 + 71118\, a1^2\, b1^2\, b2^6\, c2^6$$
$$- 320760\, a1^2\, b1^2\, b2^5\, c1^6\, c2 - 18340356\, a1^2\, b1^2\, b2^5\, c1^4\, c2^3$$
$$+ 8895744\, a1^2\, b1^2\, b2^5\, c1^2\, c2^5 - 54756\, a1^2\, b1^2\, b2^5\, c2^7 + 134460\, a1^2\, b1^2\, b2^4\, c1^8$$
$$- 812268\, a1^2\, b1^2\, b2^4\, c1^6\, c2^2 + 4441722\, a1^2\, b1^2\, b2^4\, c1^4\, c2^4$$
$$- 7043112\, a1^2\, b1^2\, b2^4\, c1^2\, c2^6 + 67878\, a1^2\, b1^2\, b2^4\, c2^8 + 122472\, a1^2\, b1^2\, b2^3\, c1^8\, c2$$
$$+ 2248560\, a1^2\, b1^2\, b2^3\, c1^6\, c2^3 + 5600664\, a1^2\, b1^2\, b2^3\, c1^4\, c2^5$$
$$+ 3390336\, a1^2\, b1^2\, b2^3\, c1^2\, c2^7 - 84240\, a1^2\, b1^2\, b2^3\, c2^9 - 648\, a1^2\, b1^2\, b2^2\, c1^{10}$$
$$- 118098\, a1^2\, b1^2\, b2^2\, c1^8\, c2^2 - 1080540\, a1^2\, b1^2\, b2^2\, c1^6\, c2^4$$
$$- 1744416\, a1^2\, b1^2\, b2^2\, c1^4\, c2^6 - 716364\, a1^2\, b1^2\, b2^2\, c1^2\, c2^8 + 64962\, a1^2\, b1^2\, b2^2\, c2^{10}$$
$$- 8748\, a1^2\, b1^2\, b2\, c1^8\, c2^3 - 52488\, a1^2\, b1^2\, b2\, c1^6\, c2^5 - 104976\, a1^2\, b1^2\, b2\, c1^4\, c2^7$$
$$- 87480\, a1^2\, b1^2\, b2\, c1^2\, c2^9 - 26244\, a1^2\, b1^2\, b2\, c2^{11} + 4374\, a1^2\, b1^2\, c1^8\, c2^4$$
$$+ 17496\, a1^2\, b1^2\, c1^6\, c2^6 + 26244\, a1^2\, b1^2\, c1^4\, c2^8 + 17496\, a1^2\, b1^2\, c1^2\, c2^{10}$$
$$+ 4374\, a1^2\, b1^2\, c2^{12} - 8748\, a1^2\, b1\, b2^{11}\, c1\, c2 - 5832\, a1^2\, b1\, b2^{10}\, c1^3$$
$$+ 52488\, a1^2\, b1\, b2^{10}\, c1\, c2^2 + 621216\, a1^2\, b1\, b2^9\, c1^3\, c2 - 131220\, a1^2\, b1\, b2^9\, c1\, c2^3$$
$$+ 191484\, a1^2\, b1\, b2^8\, c1^5 - 2425464\, a1^2\, b1\, b2^8\, c1^3\, c2^2 + 174960\, a1^2\, b1\, b2^8\, c1\, c2^4$$
$$- 3514884\, a1^2\, b1\, b2^7\, c1^5\, c2 + 4759776\, a1^2\, b1\, b2^7\, c1^3\, c2^3 - 148716\, a1^2\, b1\, b2^7\, c1\, c2^5$$
$$+ 263952\, a1^2\, b1\, b2^6\, c1^7 + 5553624\, a1^2\, b1\, b2^6\, c1^5\, c2^2 - 5833728\, a1^2\, b1\, b2^6\, c1^3\, c2^4$$
$$+ 122472\, a1^2\, b1\, b2^6\, c1\, c2^6 + 915624\, a1^2\, b1\, b2^5\, c1^7\, c2 + 473556\, a1^2\, b1\, b2^5\, c1^5\, c2^3$$
$$+ 4408992\, a1^2\, b1\, b2^5\, c1^3\, c2^5 - 148716\, a1^2\, b1\, b2^5\, c1\, c2^7 - 82188\, a1^2\, b1\, b2^4\, c1^9$$
$$- 1587600\, a1^2\, b1\, b2^4\, c1^7\, c2^2 - 3531276\, a1^2\, b1\, b2^4\, c1^5\, c2^4$$
$$- 1850904\, a1^2\, b1\, b2^4\, c1^3\, c2^6 + 174960\, a1^2\, b1\, b2^4\, c1\, c2^8 + 20412\, a1^2\, b1\, b2^3\, c1^9\, c2$$
$$+ 460080\, a1^2\, b1\, b2^3\, c1^7\, c2^3 + 727704\, a1^2\, b1\, b2^3\, c1^5\, c2^5 + 156816\, a1^2\, b1\, b2^3\, c1^3\, c2^7$$
$$- 131220\, a1^2\, b1\, b2^3\, c1\, c2^9 + 34992\, a1^2\, b1\, b2^2\, c1^9\, c2^2 + 157464\, a1^2\, b1\, b2^2\, c1^7\, c2^4$$
$$+ 262440\, a1^2\, b1\, b2^2\, c1^5\, c2^6 + 192456\, a1^2\, b1\, b2^2\, c1^3\, c2^8 + 52488\, a1^2\, b1\, b2^2\, c1\, c2^{10}$$
$$- 8748\, a1^2\, b1\, b2\, c1^9\, c2^3 - 34992\, a1^2\, b1\, b2\, c1^7\, c2^5 - 52488\, a1^2\, b1\, b2\, c1^5\, c2^7$$
$$- 34992\, a1^2\, b1\, b2\, c1^3\, c2^9 - 8748\, a1^2\, b1\, b2\, c1\, c2^{11} + 4374\, a1^2\, b2^{12}\, c1^2$$
$$- 26244\, a1^2\, b2^{11}\, c1^2\, c2 - 148554\, a1^2\, b2^{10}\, c1^4 + 64962\, a1^2\, b2^{10}\, c1^2\, c2^2$$
$$- 108\, a1^2\, b2^{10}\, c2^4 + 594756\, a1^2\, b2^9\, c1^4\, c2 - 84240\, a1^2\, b2^9\, c1^2\, c2^3 + 648\, a1^2\, b2^9\, c2^5$$
$$+ 362362\, a1^2\, b2^8\, c1^6 - 1166724\, a1^2\, b2^8\, c1^4\, c2^2 + 67878\, a1^2\, b2^8\, c1^2\, c2^4$$
$$- 1620\, a1^2\, b2^8\, c2^6 - 469844\, a1^2\, b2^7\, c1^6\, c2 + 1402056\, a1^2\, b2^7\, c1^4\, c2^3$$
$$- 54756\, a1^2\, b2^7\, c1^2\, c2^5 + 2160\, a1^2\, b2^7\, c2^7 - 273240\, a1^2\, b2^6\, c1^8$$
$$- 495914\, a1^2\, b2^6\, c1^6\, c2^2 - 983232\, a1^2\, b2^6\, c1^4\, c2^4 + 71118\, a1^2\, b2^6\, c1^2\, c2^6$$
$$- 1620\, a1^2\, b2^6\, c2^8 + 321084\, a1^2\, b2^5\, c1^8\, c2 + 709560\, a1^2\, b2^5\, c1^6\, c2^3$$

$$+ 300996\, a1^2\, b2^5\, c1^4\, c2^5 - 86832\, a1^2\, b2^5\, c1^2\, c2^7 + 648\, a1^2\, b2^5\, c2^9$$
$$+ 20304\, a1^2\, b2^4\, c1^{10} - 5670\, a1^2\, b2^4\, c1^8\, c2^2 - 6426\, a1^2\, b2^4\, c1^6\, c2^4$$
$$+ 85266\, a1^2\, b2^4\, c1^4\, c2^6 + 65610\, a1^2\, b2^4\, c1^2\, c2^8 - 108\, a1^2\, b2^4\, c2^{10}$$
$$- 20412\, a1^2\, b2^3\, c1^{10}\, c2 - 87480\, a1^2\, b2^3\, c1^8\, c2^3 - 139968\, a1^2\, b2^3\, c1^6\, c2^5$$
$$- 99144\, a1^2\, b2^3\, c1^4\, c2^7 - 26244\, a1^2\, b2^3\, c1^2\, c2^9 + 4374\, a1^2\, b2^2\, c1^{10}\, c2^2$$
$$+ 17496\, a1^2\, b2^2\, c1^8\, c2^4 + 26244\, a1^2\, b2^2\, c1^6\, c2^6 + 17496\, a1^2\, b2^2\, c1^4\, c2^8$$
$$+ 4374\, a1^2\, b2^2\, c1^2\, c2^{10} - 2916\, a1\, a2^{11}\, b1^3\, b2 + 2916\, a1\, a2^{11}\, b1^3\, c2$$
$$+ 8748\, a1\, a2^{11}\, b1^2\, b2\, c1 - 8748\, a1\, a2^{11}\, b1^2\, c1\, c2 - 8748\, a1\, a2^{11}\, b1\, b2\, c1^2$$
$$+ 8748\, a1\, a2^{11}\, b1\, c1^2\, c2 + 2916\, a1\, a2^{11}\, b2\, c1^3 - 2916\, a1\, a2^{11}\, c1^3\, c2$$
$$- 2916\, a1\, a2^{10}\, b1^5 + 8748\, a1\, a2^{10}\, b1^4\, c1 + 11664\, a1\, a2^{10}\, b1^3\, b2^2$$
$$+ 8748\, a1\, a2^{10}\, b1^3\, b2\, c2 - 5832\, a1\, a2^{10}\, b1^3\, c1^2 - 20412\, a1\, a2^{10}\, b1^3\, c2^2$$
$$- 43740\, a1\, a2^{10}\, b1^2\, b2^2\, c1 - 8748\, a1\, a2^{10}\, b1^2\, b2\, c1\, c2 - 5832\, a1\, a2^{10}\, b1^2\, c1^3$$
$$+ 52488\, a1\, a2^{10}\, b1^2\, c1\, c2^2 + 52488\, a1\, a2^{10}\, b1\, b2^2\, c1^2 - 8748\, a1\, a2^{10}\, b1\, b2\, c1^2\, c2$$
$$+ 8748\, a1\, a2^{10}\, b1\, c1^4 - 43740\, a1\, a2^{10}\, b1\, c1^2\, c2^2 - 20412\, a1\, a2^{10}\, b2^2\, c1^3$$
$$+ 8748\, a1\, a2^{10}\, b2\, c1^3\, c2 - 2916\, a1\, a2^{10}\, c1^5 + 11664\, a1\, a2^{10}\, c1^3\, c2^2$$
$$+ 63288\, a1\, a2^9\, b1^5\, b2 - 34128\, a1\, a2^9\, b1^5\, c2 - 322272\, a1\, a2^9\, b1^4\, b2\, c1$$
$$+ 234792\, a1\, a2^9\, b1^4\, c1\, c2 - 17496\, a1\, a2^9\, b1^3\, b2^3 - 64152\, a1\, a2^9\, b1^3\, b2^2\, c2$$
$$+ 621216\, a1\, a2^9\, b1^3\, b2\, c1^2 + 20412\, a1\, a2^9\, b1^3\, b2\, c2^2 - 562896\, a1\, a2^9\, b1^3\, c1^2\, c2$$
$$+ 61236\, a1\, a2^9\, b1^3\, c2^3 + 87480\, a1\, a2^9\, b1^2\, b2^3\, c1 + 174960\, a1\, a2^9\, b1^2\, b2^2\, c1\, c2$$
$$- 562896\, a1\, a2^9\, b1^2\, b2\, c1^3 - 131220\, a1\, a2^9\, b1^2\, b2\, c1\, c2^2 + 621216\, a1\, a2^9\, b1^2\, c1^3\, c2$$
$$- 131220\, a1\, a2^9\, b1^2\, c1\, c2^3 + 216\, a1\, a2^9\, b1\, b2^5 - 1080\, a1\, a2^9\, b1\, b2^4\, c2$$
$$- 131220\, a1\, a2^9\, b1\, b2^3\, c1^2 + 2160\, a1\, a2^9\, b1\, b2^3\, c2^2 - 131220\, a1\, a2^9\, b1\, b2^2\, c1^2\, c2$$
$$- 2160\, a1\, a2^9\, b1\, b2^2\, c2^3 + 234792\, a1\, a2^9\, b1\, b2\, c1^4 + 174960\, a1\, a2^9\, b1\, b2\, c1^2\, c2^2$$
$$+ 1080\, a1\, a2^9\, b1\, b2\, c2^4 - 322272\, a1\, a2^9\, b1\, c1^4\, c2 + 87480\, a1\, a2^9\, b1\, c1^2\, c2^3$$
$$- 216\, a1\, a2^9\, b1\, c2^5 - 216\, a1\, a2^9\, b2^5\, c1 + 1080\, a1\, a2^9\, b2^4\, c1\, c2$$
$$+ 61236\, a1\, a2^9\, b2^3\, c1^3 - 2160\, a1\, a2^9\, b2^3\, c1\, c2^2 + 20412\, a1\, a2^9\, b2^2\, c1^3\, c2$$
$$+ 2160\, a1\, a2^9\, b2^2\, c1\, c2^3 - 34128\, a1\, a2^9\, b2\, c1^5 - 64152\, a1\, a2^9\, b2\, c1^3\, c2^2$$
$$- 1080\, a1\, a2^9\, b2\, c1\, c2^4 + 63288\, a1\, a2^9\, c1^5\, c2 - 17496\, a1\, a2^9\, c1^3\, c2^3$$
$$+ 216\, a1\, a2^9\, c1\, c2^5 + 18360\, a1\, a2^8\, b1^7 - 100548\, a1\, a2^8\, b1^6\, c1$$
$$- 117288\, a1\, a2^8\, b1^5\, b2^2 - 335016\, a1\, a2^8\, b1^5\, b2\, c2 + 191484\, a1\, a2^8\, b1^5\, c1^2$$
$$+ 321084\, a1\, a2^8\, b1^5\, c2^2 + 912708\, a1\, a2^8\, b1^4\, b2^2\, c1 + 1075032\, a1\, a2^8\, b1^4\, b2\, c1\, c2$$
$$- 109296\, a1\, a2^8\, b1^4\, c1^3 - 1594080\, a1\, a2^8\, b1^4\, c1\, c2^2 + 11664\, a1\, a2^8\, b1^3\, b2^4$$
$$+ 110808\, a1\, a2^8\, b1^3\, b2^3\, c2 - 2425464\, a1\, a2^8\, b1^3\, b2^2\, c1^2 + 122472\, a1\, a2^8\, b1^3\, b2^2\, c2^2$$
$$- 740016\, a1\, a2^8\, b1^3\, b2\, c1^2\, c2 - 142884\, a1\, a2^8\, b1^3\, b2\, c2^3 - 109296\, a1\, a2^8\, b1^3\, c1^4$$

$$+ 2903040\, a1\, a2^8\, b1^3\, c1^2\, c2^2 - 102060\, a1\, a2^8\, b1^3\, c2^4 - 87480\, a1\, a2^8\, b1^2\, b2^4\, c1$$
$$- 437400\, a1\, a2^8\, b1^2\, b2^3\, c1\, c2 + 2903040\, a1\, a2^8\, b1^2\, b2^2\, c1^3$$
$$- 131220\, a1\, a2^8\, b1^2\, b2^2\, c1\, c2^2 - 740016\, a1\, a2^8\, b1^2\, b2\, c1^3\, c2$$
$$+ 481140\, a1\, a2^8\, b1^2\, b2\, c1\, c2^3 + 191484\, a1\, a2^8\, b1^2\, c1^5 - 2425464\, a1\, a2^8\, b1^2\, c1^3\, c2^2$$
$$+ 174960\, a1\, a2^8\, b1^2\, c1\, c2^4 - 864\, a1\, a2^8\, b1\, b2^6 + 3240\, a1\, a2^8\, b1\, b2^5\, c2$$
$$+ 174960\, a1\, a2^8\, b1\, b2^4\, c1^2 - 3240\, a1\, a2^8\, b1\, b2^4\, c2^2 + 481140\, a1\, a2^8\, b1\, b2^3\, c1^2\, c2$$
$$- 2160\, a1\, a2^8\, b1\, b2^3\, c2^3 - 1594080\, a1\, a2^8\, b1\, b2^2\, c1^4 - 131220\, a1\, a2^8\, b1\, b2^2\, c1^2\, c2^2$$
$$+ 6480\, a1\, a2^8\, b1\, b2^2\, c2^4 + 1075032\, a1\, a2^8\, b1\, b2\, c1^4\, c2 - 437400\, a1\, a2^8\, b1\, b2\, c1^2\, c2^3$$
$$- 4536\, a1\, a2^8\, b1\, b2\, c2^5 - 100548\, a1\, a2^8\, b1\, c1^6 + 912708\, a1\, a2^8\, b1\, c1^4\, c2^2$$
$$- 87480\, a1\, a2^8\, b1\, c1^2\, c2^4 + 1080\, a1\, a2^8\, b1\, c2^6 + 1080\, a1\, a2^8\, b2^6\, c1$$
$$- 4536\, a1\, a2^8\, b2^5\, c1\, c2 - 102060\, a1\, a2^8\, b2^4\, c1^3 + 6480\, a1\, a2^8\, b2^4\, c1\, c2^2$$
$$- 142884\, a1\, a2^8\, b2^3\, c1^3\, c2 - 2160\, a1\, a2^8\, b2^3\, c1\, c2^3 + 321084\, a1\, a2^8\, b2^2\, c1^5$$
$$+ 122472\, a1\, a2^8\, b2^2\, c1^3\, c2^2 - 3240\, a1\, a2^8\, b2^2\, c1\, c2^4 - 335016\, a1\, a2^8\, b2\, c1^5\, c2$$
$$+ 110808\, a1\, a2^8\, b2\, c1^3\, c2^3 + 3240\, a1\, a2^8\, b2\, c1\, c2^5 + 18360\, a1\, a2^8\, c1^7$$
$$- 117288\, a1\, a2^8\, c1^5\, c2^2 + 11664\, a1\, a2^8\, c1^3\, c2^4 - 864\, a1\, a2^8\, c1\, c2^6$$
$$- 126428\, a1\, a2^7\, b1^7\, b2 - 20452\, a1\, a2^7\, b1^7\, c2 + 1082852\, a1\, a2^7\, b1^6\, b2\, c1$$
$$- 278468\, a1\, a2^7\, b1^6\, c1\, c2 + 171288\, a1\, a2^7\, b1^5\, b2^3 + 424440\, a1\, a2^7\, b1^5\, b2^2\, c2$$
$$- 3514884\, a1\, a2^7\, b1^5\, b2\, c1^2 + 915624\, a1\, a2^7\, b1^5\, b2\, c2^2 + 1983012\, a1\, a2^7\, b1^5\, c1^2\, c2$$
$$- 1161432\, a1\, a2^7\, b1^5\, c2^3 - 1468152\, a1\, a2^7\, b1^4\, b2^3\, c1 - 2897208\, a1\, a2^7\, b1^4\, b2^2\, c1\, c2$$
$$+ 5651644\, a1\, a2^7\, b1^4\, b2\, c1^3 - 1402920\, a1\, a2^7\, b1^4\, b2\, c1\, c2^2$$
$$- 4777276\, a1\, a2^7\, b1^4\, c1^3\, c2 + 4718520\, a1\, a2^7\, b1^4\, c1\, c2^3 - 8316\, a1\, a2^7\, b1^3\, b2^5$$
$$- 51732\, a1\, a2^7\, b1^3\, b2^4\, c2 + 4759776\, a1\, a2^7\, b1^3\, b2^3\, c1^2 - 339768\, a1\, a2^7\, b1^3\, b2^3\, c2^2$$
$$+ 5124384\, a1\, a2^7\, b1^3\, b2^2\, c1^2\, c2 + 13176\, a1\, a2^7\, b1^3\, b2^2\, c2^3$$
$$- 4777276\, a1\, a2^7\, b1^3\, b2\, c1^4 - 2164320\, a1\, a2^7\, b1^3\, b2\, c1^2\, c2^2$$
$$+ 279180\, a1\, a2^7\, b1^3\, b2\, c2^4 + 5651644\, a1\, a2^7\, b1^3\, c1^4\, c2 - 7020000\, a1\, a2^7\, b1^3\, c1^2\, c2^3$$
$$+ 107460\, a1\, a2^7\, b1^3\, c2^5 + 61236\, a1\, a2^7\, b1^2\, b2^5\, c1 + 393660\, a1\, a2^7\, b1^2\, b2^4\, c1\, c2$$
$$- 7020000\, a1\, a2^7\, b1^2\, b2^3\, c1^3 + 962280\, a1\, a2^7\, b1^2\, b2^3\, c1\, c2^2$$
$$- 2164320\, a1\, a2^7\, b1^2\, b2^2\, c1^3\, c2 - 612360\, a1\, a2^7\, b1^2\, b2^2\, c1\, c2^3$$
$$+ 1983012\, a1\, a2^7\, b1^2\, b2\, c1^5 + 5124384\, a1\, a2^7\, b1^2\, b2\, c1^3\, c2^2$$
$$- 656100\, a1\, a2^7\, b1^2\, b2\, c1\, c2^4 - 3514884\, a1\, a2^7\, b1^2\, c1^5\, c2$$
$$+ 4759776\, a1\, a2^7\, b1^2\, c1^3\, c2^3 - 148716\, a1\, a2^7\, b1^2\, c1\, c2^5 + 1296\, a1\, a2^7\, b1\, b2^7$$
$$- 2160\, a1\, a2^7\, b1\, b2^6\, c2 - 148716\, a1\, a2^7\, b1\, b2^5\, c1^2 - 6480\, a1\, a2^7\, b1\, b2^5\, c2^2$$
$$- 656100\, a1\, a2^7\, b1\, b2^4\, c1^2\, c2 + 19440\, a1\, a2^7\, b1\, b2^4\, c2^3 + 4718520\, a1\, a2^7\, b1\, b2^3\, c1^4$$
$$- 612360\, a1\, a2^7\, b1\, b2^3\, c1^2\, c2^2 - 15120\, a1\, a2^7\, b1\, b2^3\, c2^4$$

$$- 1402920\, a1\, a2^7\, b1\, b2^2\, c1^4\, c2 + 962280\, a1\, a2^7\, b1\, b2^2\, c1^2\, c2^3$$
$$- 1296\, a1\, a2^7\, b1\, b2^2\, c2^5 - 278468\, a1\, a2^7\, b1\, b2\, c1^6 - 2897208\, a1\, a2^7\, b1\, b2\, c1^4\, c2^2$$
$$+ 393660\, a1\, a2^7\, b1\, b2\, c1^2\, c2^4 + 6480\, a1\, a2^7\, b1\, b2\, c2^6 + 1082852\, a1\, a2^7\, b1\, c1^6\, c2$$
$$- 1468152\, a1\, a2^7\, b1\, c1^4\, c2^3 + 61236\, a1\, a2^7\, b1\, c1^2\, c2^5 - 2160\, a1\, a2^7\, b1\, c2^7$$
$$- 2160\, a1\, a2^7\, b2^7\, c1 + 6480\, a1\, a2^7\, b2^6\, c1\, c2 + 107460\, a1\, a2^7\, b2^5\, c1^3$$
$$- 1296\, a1\, a2^7\, b2^5\, c1\, c2^2 + 279180\, a1\, a2^7\, b2^4\, c1^3\, c2 - 15120\, a1\, a2^7\, b2^4\, c1\, c2^3$$
$$- 1161432\, a1\, a2^7\, b2^3\, c1^5 + 13176\, a1\, a2^7\, b2^3\, c1^3\, c2^2 + 19440\, a1\, a2^7\, b2^3\, c1\, c2^4$$
$$+ 915624\, a1\, a2^7\, b2^2\, c1^5\, c2 - 339768\, a1\, a2^7\, b2^2\, c1^3\, c2^3 - 6480\, a1\, a2^7\, b2^2\, c1\, c2^5$$
$$- 20452\, a1\, a2^7\, b2\, c1^7 + 424440\, a1\, a2^7\, b2\, c1^5\, c2^2 - 51732\, a1\, a2^7\, b2\, c1^3\, c2^4$$
$$- 2160\, a1\, a2^7\, b2\, c1\, c2^6 - 126428\, a1\, a2^7\, c1^7\, c2 + 171288\, a1\, a2^7\, c1^5\, c2^3$$
$$- 8316\, a1\, a2^7\, c1^3\, c2^5 + 1296\, a1\, a2^7\, c1\, c2^7 + 18360\, a1\, a2^6\, b1^9 - 109620\, a1\, a2^6\, b1^8\, c1$$
$$- 98928\, a1\, a2^6\, b1^7\, b2^2 + 1082852\, a1\, a2^6\, b1^7\, b2\, c2 + 263952\, a1\, a2^6\, b1^7\, c1^2$$
$$- 469844\, a1\, a2^6\, b1^7\, c2^2 - 483884\, a1\, a2^6\, b1^6\, b2^2\, c1 - 6612196\, a1\, a2^6\, b1^6\, b2\, c1\, c2$$
$$- 317736\, a1\, a2^6\, b1^6\, c1^3 + 4280736\, a1\, a2^6\, b1^6\, c1\, c2^2 - 105624\, a1\, a2^6\, b1^5\, b2^4$$
$$- 776520\, a1\, a2^6\, b1^5\, b2^3\, c2 + 5553624\, a1\, a2^6\, b1^5\, b2^2\, c1^2 - 320760\, a1\, a2^6\, b1^5\, b2^2\, c2^2$$
$$+ 13496940\, a1\, a2^6\, b1^5\, b2\, c1^2\, c2 - 1922616\, a1\, a2^6\, b1^5\, b2\, c2^3 + 145044\, a1\, a2^6\, b1^5\, c1^4$$
$$- 13689012\, a1\, a2^6\, b1^5\, c1^2\, c2^2 + 2513160\, a1\, a2^6\, b1^5\, c2^4 + 1417284\, a1\, a2^6\, b1^4\, b2^4\, c1$$
$$+ 4607928\, a1\, a2^6\, b1^4\, b2^3\, c1\, c2 - 15796956\, a1\, a2^6\, b1^4\, b2^2\, c1^3$$
$$+ 3228336\, a1\, a2^6\, b1^4\, b2^2\, c1\, c2^2 - 7967596\, a1\, a2^6\, b1^4\, b2\, c1^3\, c2$$
$$+ 1121256\, a1\, a2^6\, b1^4\, b2\, c1\, c2^3 + 145044\, a1\, a2^6\, b1^4\, c1^5 + 20704264\, a1\, a2^6\, b1^4\, c1^3\, c2^2$$
$$- 8537724\, a1\, a2^6\, b1^4\, c1\, c2^4 + 10800\, a1\, a2^6\, b1^3\, b2^6 - 6588\, a1\, a2^6\, b1^3\, b2^5\, c2$$
$$- 5833728\, a1\, a2^6\, b1^3\, b2^4\, c1^2 + 197532\, a1\, a2^6\, b1^3\, b2^4\, c2^2$$
$$- 9983520\, a1\, a2^6\, b1^3\, b2^3\, c1^2\, c2 + 529416\, a1\, a2^6\, b1^3\, b2^3\, c2^3$$
$$+ 20704264\, a1\, a2^6\, b1^3\, b2^2\, c1^4 - 2960064\, a1\, a2^6\, b1^3\, b2^2\, c1^2\, c2^2$$
$$- 420120\, a1\, a2^6\, b1^3\, b2^2\, c2^4 - 7967596\, a1\, a2^6\, b1^3\, b2\, c1^4\, c2$$
$$+ 7023456\, a1\, a2^6\, b1^3\, b2\, c1^2\, c2^3 - 222804\, a1\, a2^6\, b1^3\, b2\, c2^5 - 317736\, a1\, a2^6\, b1^3\, c1^6$$
$$- 15796956\, a1\, a2^6\, b1^3\, c1^4\, c2^2 + 10529136\, a1\, a2^6\, b1^3\, c1^2\, c2^4 - 88236\, a1\, a2^6\, b1^3\, c2^6$$
$$- 61236\, a1\, a2^6\, b1^2\, b2^6\, c1 - 61236\, a1\, a2^6\, b1^2\, b2^5\, c1\, c2 + 10529136\, a1\, a2^6\, b1^2\, b2^4\, c1^3$$
$$- 1224720\, a1\, a2^6\, b1^2\, b2^4\, c1\, c2^2 + 7023456\, a1\, a2^6\, b1^2\, b2^3\, c1^3\, c2$$
$$- 612360\, a1\, a2^6\, b1^2\, b2^3\, c1\, c2^3 - 13689012\, a1\, a2^6\, b1^2\, b2^2\, c1^5$$
$$- 2960064\, a1\, a2^6\, b1^2\, b2^2\, c1^3\, c2^2 + 1530900\, a1\, a2^6\, b1^2\, b2^2\, c1\, c2^4$$
$$+ 13496940\, a1\, a2^6\, b1^2\, b2\, c1^5\, c2 - 9983520\, a1\, a2^6\, b1^2\, b2\, c1^3\, c2^3$$
$$+ 306180\, a1\, a2^6\, b1^2\, b2\, c1\, c2^5 + 263952\, a1\, a2^6\, b1^2\, c1^7 + 5553624\, a1\, a2^6\, b1^2\, c1^5\, c2^2$$
$$- 5833728\, a1\, a2^6\, b1^2\, c1^3\, c2^4 + 122472\, a1\, a2^6\, b1^2\, c1\, c2^6 - 864\, a1\, a2^6\, b1\, b2^8$$

$$- 2160\, a1\, a2^6\, b1\, b2^7\, c2 + 122472\, a1\, a2^6\, b1\, b2^6\, c1^2 + 15120\, a1\, a2^6\, b1\, b2^6\, c2^2$$
$$+ 306180\, a1\, a2^6\, b1\, b2^5\, c1^2\, c2 - 15120\, a1\, a2^6\, b1\, b2^5\, c2^3 - 8537724\, a1\, a2^6\, b1\, b2^4\, c1^4$$
$$+ 1530900\, a1\, a2^6\, b1\, b2^4\, c1^2\, c2^2 - 15120\, a1\, a2^6\, b1\, b2^4\, c2^4$$
$$+ 1121256\, a1\, a2^6\, b1\, b2^3\, c1^4\, c2 - 612360\, a1\, a2^6\, b1\, b2^3\, c1^2\, c2^3$$
$$+ 33264\, a1\, a2^6\, b1\, b2^3\, c2^5 + 4280736\, a1\, a2^6\, b1\, b2^2\, c1^6$$
$$+ 3228336\, a1\, a2^6\, b1\, b2^2\, c1^4\, c2^2 - 1224720\, a1\, a2^6\, b1\, b2^2\, c1^2\, c2^4$$
$$- 15120\, a1\, a2^6\, b1\, b2^2\, c2^6 - 6612196\, a1\, a2^6\, b1\, b2\, c1^6\, c2$$
$$+ 4607928\, a1\, a2^6\, b1\, b2\, c1^4\, c2^3 - 61236\, a1\, a2^6\, b1\, b2\, c1^2\, c2^5 - 2160\, a1\, a2^6\, b1\, b2\, c2^7$$
$$- 109620\, a1\, a2^6\, b1\, c1^8 - 483884\, a1\, a2^6\, b1\, c1^6\, c2^2 + 1417284\, a1\, a2^6\, b1\, c1^4\, c2^4$$
$$- 61236\, a1\, a2^6\, b1\, c1^2\, c2^6 + 2160\, a1\, a2^6\, b1\, c2^8 + 2160\, a1\, a2^6\, b2^8\, c1$$
$$- 2160\, a1\, a2^6\, b2^7\, c1\, c2 - 88236\, a1\, a2^6\, b2^6\, c1^3 - 15120\, a1\, a2^6\, b2^6\, c1\, c2^2$$
$$- 222804\, a1\, a2^6\, b2^5\, c1^3\, c2 + 33264\, a1\, a2^6\, b2^5\, c1\, c2^3 + 2513160\, a1\, a2^6\, b2^4\, c1^5$$
$$- 420120\, a1\, a2^6\, b2^4\, c1^3\, c2^2 - 15120\, a1\, a2^6\, b2^4\, c1\, c2^4 - 1922616\, a1\, a2^6\, b2^3\, c1^5\, c2$$
$$+ 529416\, a1\, a2^6\, b2^3\, c1^3\, c2^3 - 15120\, a1\, a2^6\, b2^3\, c1\, c2^5 - 469844\, a1\, a2^6\, b2^2\, c1^7$$
$$- 320760\, a1\, a2^6\, b2^2\, c1^5\, c2^2 + 197532\, a1\, a2^6\, b2^2\, c1^3\, c2^4 + 15120\, a1\, a2^6\, b2^2\, c1\, c2^6$$
$$+ 1082852\, a1\, a2^6\, b2\, c1^7\, c2 - 776520\, a1\, a2^6\, b2\, c1^5\, c2^3 - 6588\, a1\, a2^6\, b2\, c1^3\, c2^5$$
$$- 2160\, a1\, a2^6\, b2\, c1\, c2^7 + 18360\, a1\, a2^6\, c1^9 - 98928\, a1\, a2^6\, c1^7\, c2^2$$
$$- 105624\, a1\, a2^6\, c1^5\, c2^4 + 10800\, a1\, a2^6\, c1^3\, c2^6 - 864\, a1\, a2^6\, c1\, c2^8$$
$$+ 63288\, a1\, a2^5\, b1^9\, b2 - 173448\, a1\, a2^5\, b1^9\, c2 - 335016\, a1\, a2^5\, b1^8\, b2\, c1$$
$$+ 992736\, a1\, a2^5\, b1^8\, c1\, c2 + 109080\, a1\, a2^5\, b1^7\, b2^3 + 266328\, a1\, a2^5\, b1^7\, b2^2\, c2$$
$$+ 915624\, a1\, a2^5\, b1^7\, b2\, c1^2 - 3514884\, a1\, a2^5\, b1^7\, b2\, c2^2 - 2499336\, a1\, a2^5\, b1^7\, c1^2\, c2$$
$$+ 2111316\, a1\, a2^5\, b1^7\, c2^3 - 1145448\, a1\, a2^5\, b1^6\, b2^3\, c1 + 6339648\, a1\, a2^5\, b1^6\, b2^2\, c1\, c2$$
$$- 1922616\, a1\, a2^5\, b1^6\, b2\, c1^3 + 13496940\, a1\, a2^5\, b1^6\, b2\, c1\, c2^2$$
$$+ 3829032\, a1\, a2^5\, b1^6\, c1^3\, c2 - 13060452\, a1\, a2^5\, b1^6\, c1\, c2^3 + 28512\, a1\, a2^5\, b1^5\, b2^5$$
$$+ 491184\, a1\, a2^5\, b1^5\, b2^4\, c2 + 473556\, a1\, a2^5\, b1^5\, b2^3\, c1^2 + 1347192\, a1\, a2^5\, b1^5\, b2^3\, c2^2$$
$$- 34742412\, a1\, a2^5\, b1^5\, b2^2\, c1^2\, c2 - 705672\, a1\, a2^5\, b1^5\, b2^2\, c2^3$$
$$+ 3236760\, a1\, a2^5\, b1^5\, b2\, c1^4 - 5748408\, a1\, a2^5\, b1^5\, b2\, c1^2\, c2^2$$
$$+ 3236760\, a1\, a2^5\, b1^5\, b2\, c2^4 - 4107024\, a1\, a2^5\, b1^5\, c1^4\, c2$$
$$+ 29294160\, a1\, a2^5\, b1^5\, c1^2\, c2^3 - 3663144\, a1\, a2^5\, b1^5\, c2^5 - 721872\, a1\, a2^5\, b1^4\, b2^5\, c1$$
$$- 4894344\, a1\, a2^5\, b1^4\, b2^4\, c1\, c2 + 11437644\, a1\, a2^5\, b1^4\, b2^3\, c1^3$$
$$- 4035096\, a1\, a2^5\, b1^4\, b2^3\, c1\, c2^2 + 60468804\, a1\, a2^5\, b1^4\, b2^2\, c1^3\, c2$$
$$- 2421576\, a1\, a2^5\, b1^4\, b2^2\, c1\, c2^3 - 4107024\, a1\, a2^5\, b1^4\, b2\, c1^5$$
$$- 36566016\, a1\, a2^5\, b1^4\, b2\, c1^3\, c2^2 - 471096\, a1\, a2^5\, b1^4\, b2\, c1\, c2^4$$
$$+ 3236760\, a1\, a2^5\, b1^4\, c1^5\, c2 - 29219856\, a1\, a2^5\, b1^4\, c1^3\, c2^3$$

$$+ 10339488\, a1\, a2^5\, b1^4\, c1\, c2^5 - 17064\, a1\, a2^5\, b1^3\, b2^7 + 54648\, a1\, a2^5\, b1^3\, b2^6\, c2$$
$$+ 4408992\, a1\, a2^5\, b1^3\, b2^5\, c1^2 - 144180\, a1\, a2^5\, b1^3\, b2^5\, c2^2$$
$$+ 12957408\, a1\, a2^5\, b1^3\, b2^4\, c1^2\, c2 - 154764\, a1\, a2^5\, b1^3\, b2^4\, c2^3$$
$$- 29219856\, a1\, a2^5\, b1^3\, b2^3\, c1^4 + 4035744\, a1\, a2^5\, b1^3\, b2^3\, c1^2\, c2^2$$
$$- 639360\, a1\, a2^5\, b1^3\, b2^3\, c2^4 - 36566016\, a1\, a2^5\, b1^3\, b2^2\, c1^4\, c2$$
$$+ 1884384\, a1\, a2^5\, b1^3\, b2^2\, c1^2\, c2^3 + 887760\, a1\, a2^5\, b1^3\, b2^2\, c2^5$$
$$+ 3829032\, a1\, a2^5\, b1^3\, b2\, c1^6 + 60468804\, a1\, a2^5\, b1^3\, b2\, c1^4\, c2^2$$
$$- 11477376\, a1\, a2^5\, b1^3\, b2\, c1^2\, c2^4 - 73116\, a1\, a2^5\, b1^3\, b2\, c2^6$$
$$- 1922616\, a1\, a2^5\, b1^3\, c1^6\, c2 + 11437644\, a1\, a2^5\, b1^3\, c1^4\, c2^3$$
$$- 10339488\, a1\, a2^5\, b1^3\, c1^2\, c2^5 + 86076\, a1\, a2^5\, b1^3\, c2^7 + 87480\, a1\, a2^5\, b1^2\, b2^7\, c1$$
$$- 244944\, a1\, a2^5\, b1^2\, b2^6\, c1\, c2 - 10339488\, a1\, a2^5\, b1^2\, b2^5\, c1^3$$
$$+ 918540\, a1\, a2^5\, b1^2\, b2^5\, c1\, c2^2 - 11477376\, a1\, a2^5\, b1^2\, b2^4\, c1^3\, c2$$
$$+ 918540\, a1\, a2^5\, b1^2\, b2^4\, c1\, c2^3 + 29294160\, a1\, a2^5\, b1^2\, b2^3\, c1^5$$
$$+ 1884384\, a1\, a2^5\, b1^2\, b2^3\, c1^3\, c2^2 - 5748408\, a1\, a2^5\, b1^2\, b2^2\, c1^5\, c2$$
$$+ 4035744\, a1\, a2^5\, b1^2\, b2^2\, c1^3\, c2^3 - 1837080\, a1\, a2^5\, b1^2\, b2^2\, c1\, c2^5$$
$$- 2499336\, a1\, a2^5\, b1^2\, b2\, c1^7 - 34742412\, a1\, a2^5\, b1^2\, b2\, c1^5\, c2^2$$
$$+ 12957408\, a1\, a2^5\, b1^2\, b2\, c1^3\, c2^4 + 306180\, a1\, a2^5\, b1^2\, b2\, c1\, c2^6$$
$$+ 915624\, a1\, a2^5\, b1^2\, c1^7\, c2 + 473556\, a1\, a2^5\, b1^2\, c1^5\, c2^3 + 4408992\, a1\, a2^5\, b1^2\, c1^3\, c2^5$$
$$- 148716\, a1\, a2^5\, b1^2\, c1\, c2^7 + 216\, a1\, a2^5\, b1\, b2^9 + 3240\, a1\, a2^5\, b1\, b2^8\, c2$$
$$- 148716\, a1\, a2^5\, b1\, b2^7\, c1^2 - 6480\, a1\, a2^5\, b1\, b2^7\, c2^2 + 306180\, a1\, a2^5\, b1\, b2^6\, c1^2\, c2$$
$$- 15120\, a1\, a2^5\, b1\, b2^6\, c2^3 + 10339488\, a1\, a2^5\, b1\, b2^5\, c1^4$$
$$- 1837080\, a1\, a2^5\, b1\, b2^5\, c1^2\, c2^2 + 45360\, a1\, a2^5\, b1\, b2^5\, c2^4$$
$$- 471096\, a1\, a2^5\, b1\, b2^4\, c1^4\, c2 - 27216\, a1\, a2^5\, b1\, b2^4\, c2^5 - 13060452\, a1\, a2^5\, b1\, b2^3\, c1^6$$
$$- 2421576\, a1\, a2^5\, b1\, b2^3\, c1^4\, c2^2 + 918540\, a1\, a2^5\, b1\, b2^3\, c1^2\, c2^4$$
$$- 15120\, a1\, a2^5\, b1\, b2^3\, c2^6 + 13496940\, a1\, a2^5\, b1\, b2^2\, c1^6\, c2$$
$$- 4035096\, a1\, a2^5\, b1\, b2^2\, c1^4\, c2^3 + 918540\, a1\, a2^5\, b1\, b2^2\, c1^2\, c2^5$$
$$+ 19440\, a1\, a2^5\, b1\, b2^2\, c2^7 + 992736\, a1\, a2^5\, b1\, b2\, c1^8 + 6339648\, a1\, a2^5\, b1\, b2\, c1^6\, c2^2$$
$$- 4894344\, a1\, a2^5\, b1\, b2\, c1^4\, c2^4 - 244944\, a1\, a2^5\, b1\, b2\, c1^2\, c2^6 - 3240\, a1\, a2^5\, b1\, b2\, c2^8$$
$$- 335016\, a1\, a2^5\, b1\, c1^8\, c2 - 1145448\, a1\, a2^5\, b1\, c1^6\, c2^3 - 721872\, a1\, a2^5\, b1\, c1^4\, c2^5$$
$$+ 87480\, a1\, a2^5\, b1\, c1^2\, c2^7 - 1080\, a1\, a2^5\, b1\, c2^9 - 1080\, a1\, a2^5\, b2^9\, c1$$
$$- 3240\, a1\, a2^5\, b2^8\, c1\, c2 + 86076\, a1\, a2^5\, b2^7\, c1^3 + 19440\, a1\, a2^5\, b2^7\, c1\, c2^2$$
$$- 73116\, a1\, a2^5\, b2^6\, c1^3\, c2 - 15120\, a1\, a2^5\, b2^6\, c1\, c2^3 - 3663144\, a1\, a2^5\, b2^5\, c1^5$$
$$+ 887760\, a1\, a2^5\, b2^5\, c1^3\, c2^2 - 27216\, a1\, a2^5\, b2^5\, c1\, c2^4 + 3236760\, a1\, a2^5\, b2^4\, c1^5\, c2$$
$$- 639360\, a1\, a2^5\, b2^4\, c1^3\, c2^3 + 45360\, a1\, a2^5\, b2^4\, c1\, c2^5 + 2111316\, a1\, a2^5\, b2^3\, c1^7$$

$$- 705672\, a1\, a2^5\, b2^3\, c1^5\, c2^2 - 154764\, a1\, a2^5\, b2^3\, c1^3\, c2^4 - 15120\, a1\, a2^5\, b2^3\, c1\, c2^6$$
$$- 3514884\, a1\, a2^5\, b2^2\, c1^7\, c2 + 1347192\, a1\, a2^5\, b2^2\, c1^5\, c2^3 - 144180\, a1\, a2^5\, b2^2\, c1^3\, c2^5$$
$$- 6480\, a1\, a2^5\, b2^2\, c1\, c2^7 - 173448\, a1\, a2^5\, b2\, c1^9 + 266328\, a1\, a2^5\, b2\, c1^7\, c2^2$$
$$+ 491184\, a1\, a2^5\, b2\, c1^5\, c2^4 + 54648\, a1\, a2^5\, b2\, c1^3\, c2^6 + 3240\, a1\, a2^5\, b2\, c1\, c2^8$$
$$+ 63288\, a1\, a2^5\, c1^9\, c2 + 109080\, a1\, a2^5\, c1^7\, c2^3 + 28512\, a1\, a2^5\, c1^5\, c2^5$$
$$- 17064\, a1\, a2^5\, c1^3\, c2^7 + 216\, a1\, a2^5\, c1\, c2^9 - 2916\, a1\, a2^4\, b1^{11} + 23544\, a1\, a2^4\, b1^{10}\, c1$$
$$+ 2916\, a1\, a2^4\, b1^9\, b2^2 - 322272\, a1\, a2^4\, b1^9\, b2\, c2 - 82188\, a1\, a2^4\, b1^9\, c1^2$$
$$+ 594756\, a1\, a2^4\, b1^9\, c2^2 + 300024\, a1\, a2^4\, b1^8\, b2^2\, c1 + 1075032\, a1\, a2^4\, b1^8\, b2\, c1\, c2$$
$$+ 156924\, a1\, a2^4\, b1^8\, c1^3 - 3019356\, a1\, a2^4\, b1^8\, c1\, c2^2 + 26244\, a1\, a2^4\, b1^7\, b2^4$$
$$- 650376\, a1\, a2^4\, b1^7\, b2^3\, c2 - 1587600\, a1\, a2^4\, b1^7\, b2^2\, c1^2 + 309744\, a1\, a2^4\, b1^7\, b2^2\, c2^2$$
$$- 1402920\, a1\, a2^4\, b1^7\, b2\, c1^2\, c2 + 5651644\, a1\, a2^4\, b1^7\, b2\, c2^3 - 169344\, a1\, a2^4\, b1^7\, c1^4$$
$$+ 6949800\, a1\, a2^4\, b1^7\, c1^2\, c2^2 - 4052056\, a1\, a2^4\, b1^7\, c2^4 + 441504\, a1\, a2^4\, b1^6\, b2^4\, c1$$
$$+ 3961224\, a1\, a2^4\, b1^6\, b2^3\, c1\, c2 + 4245912\, a1\, a2^4\, b1^6\, b2^2\, c1^3$$
$$- 21790956\, a1\, a2^4\, b1^6\, b2^2\, c1\, c2^2 + 1121256\, a1\, a2^4\, b1^6\, b2\, c1^3\, c2$$
$$- 7967596\, a1\, a2^4\, b1^6\, b2\, c1\, c2^3 + 73980\, a1\, a2^4\, b1^6\, c1^5 - 10133208\, a1\, a2^4\, b1^6\, c1^3\, c2^2$$
$$+ 18317464\, a1\, a2^4\, b1^6\, c1\, c2^4 + 32076\, a1\, a2^4\, b1^5\, b2^6 - 335016\, a1\, a2^4\, b1^5\, b2^5\, c2$$
$$- 3531276\, a1\, a2^4\, b1^5\, b2^4\, c1^2 - 390420\, a1\, a2^4\, b1^5\, b2^4\, c2^2$$
$$+ 11757324\, a1\, a2^4\, b1^5\, b2^3\, c1^2\, c2 - 1724760\, a1\, a2^4\, b1^5\, b2^3\, c2^3$$
$$- 7856352\, a1\, a2^4\, b1^5\, b2^2\, c1^4 + 69220044\, a1\, a2^4\, b1^5\, b2^2\, c1^2\, c2^2$$
$$+ 2175660\, a1\, a2^4\, b1^5\, b2^2\, c2^4 - 471096\, a1\, a2^4\, b1^5\, b2\, c1^4\, c2$$
$$- 36566016\, a1\, a2^4\, b1^5\, b2\, c1^2\, c2^3 - 4107024\, a1\, a2^4\, b1^5\, b2\, c2^5 + 73980\, a1\, a2^4\, b1^5\, c1^6$$
$$+ 10503108\, a1\, a2^4\, b1^5\, c1^4\, c2^2 - 27476196\, a1\, a2^4\, b1^5\, c1^2\, c2^4 + 3737124\, a1\, a2^4\, b1^5\, c2^6$$
$$+ 77328\, a1\, a2^4\, b1^4\, b2^6\, c1 + 3145392\, a1\, a2^4\, b1^4\, b2^5\, c1\, c2$$
$$+ 2924312\, a1\, a2^4\, b1^4\, b2^4\, c1^3 + 4372380\, a1\, a2^4\, b1^4\, b2^4\, c1\, c2^2$$
$$- 68885468\, a1\, a2^4\, b1^4\, b2^3\, c1^3\, c2 + 895320\, a1\, a2^4\, b1^4\, b2^3\, c1\, c2^3$$
$$+ 10503108\, a1\, a2^4\, b1^4\, b2^2\, c1^5 - 47843808\, a1\, a2^4\, b1^4\, b2^2\, c1^3\, c2^2$$
$$+ 2355480\, a1\, a2^4\, b1^4\, b2^2\, c1\, c2^4 - 471096\, a1\, a2^4\, b1^4\, b2\, c1^5\, c2$$
$$+ 92839232\, a1\, a2^4\, b1^4\, b2\, c1^3\, c2^3 - 471096\, a1\, a2^4\, b1^4\, b2\, c1\, c2^5$$
$$- 169344\, a1\, a2^4\, b1^4\, c1^7 - 7856352\, a1\, a2^4\, b1^4\, c1^5\, c2^2 + 13315012\, a1\, a2^4\, b1^4\, c1^3\, c2^4$$
$$- 8537724\, a1\, a2^4\, b1^4\, c1\, c2^6 + 11664\, a1\, a2^4\, b1^3\, b2^8 - 7992\, a1\, a2^4\, b1^3\, b2^7\, c2$$
$$- 1850904\, a1\, a2^4\, b1^3\, b2^6\, c1^2 - 108648\, a1\, a2^4\, b1^3\, b2^6\, c2^2$$
$$- 10939536\, a1\, a2^4\, b1^3\, b2^5\, c1^2\, c2 + 457596\, a1\, a2^4\, b1^3\, b2^5\, c2^3$$
$$+ 13315012\, a1\, a2^4\, b1^3\, b2^4\, c1^4 - 5044680\, a1\, a2^4\, b1^3\, b2^4\, c1^2\, c2^2$$
$$- 378540\, a1\, a2^4\, b1^3\, b2^4\, c2^4 + 92839232\, a1\, a2^4\, b1^3\, b2^3\, c1^4\, c2$$

$$+ 942192\, a1\, a2^4\, b1^3\, b2^3\, c2^5 - 10133208\, a1\, a2^4\, b1^3\, b2^2\, c1^6$$
$$- 47843808\, a1\, a2^4\, b1^3\, b2^2\, c1^4\, c2^2 - 2355480\, a1\, a2^4\, b1^3\, b2^2\, c1^2\, c2^4$$
$$- 1210896\, a1\, a2^4\, b1^3\, b2^2\, c2^6 + 1121256\, a1\, a2^4\, b1^3\, b2\, c1^6\, c2$$
$$- 68885468\, a1\, a2^4\, b1^3\, b2\, c1^4\, c2^3 + 12419568\, a1\, a2^4\, b1^3\, b2\, c1^2\, c2^5$$
$$+ 398196\, a1\, a2^4\, b1^3\, b2\, c2^7 + 156924\, a1\, a2^4\, b1^3\, c1^8 + 4245912\, a1\, a2^4\, b1^3\, c1^6\, c2^2$$
$$+ 2924312\, a1\, a2^4\, b1^3\, c1^4\, c2^4 + 6546312\, a1\, a2^4\, b1^3\, c1^2\, c2^6 - 103572\, a1\, a2^4\, b1^3\, c2^8$$
$$- 87480\, a1\, a2^4\, b1^2\, b2^8\, c1 + 262440\, a1\, a2^4\, b1^2\, b2^7\, c1\, c2 + 6546312\, a1\, a2^4\, b1^2\, b2^6\, c1^3$$
$$- 306180\, a1\, a2^4\, b1^2\, b2^6\, c1\, c2^2 + 12419568\, a1\, a2^4\, b1^2\, b2^5\, c1^3\, c2$$
$$- 918540\, a1\, a2^4\, b1^2\, b2^5\, c1\, c2^3 - 27476196\, a1\, a2^4\, b1^2\, b2^4\, c1^5$$
$$- 2355480\, a1\, a2^4\, b1^2\, b2^4\, c1^3\, c2^2 - 36566016\, a1\, a2^4\, b1^2\, b2^3\, c1^5\, c2$$
$$+ 6949800\, a1\, a2^4\, b1^2\, b2^2\, c1^7 + 69220044\, a1\, a2^4\, b1^2\, b2^2\, c1^5\, c2^2$$
$$- 5044680\, a1\, a2^4\, b1^2\, b2^2\, c1^3\, c2^4 + 1530900\, a1\, a2^4\, b1^2\, b2^2\, c1\, c2^6$$
$$- 1402920\, a1\, a2^4\, b1^2\, b2\, c1^7\, c2 + 11757324\, a1\, a2^4\, b1^2\, b2\, c1^5\, c2^3$$
$$- 10939536\, a1\, a2^4\, b1^2\, b2\, c1^3\, c2^5 - 656100\, a1\, a2^4\, b1^2\, b2\, c1\, c2^7 - 82188\, a1\, a2^4\, b1^2\, c1^9$$
$$- 1587600\, a1\, a2^4\, b1^2\, c1^7\, c2^2 - 3531276\, a1\, a2^4\, b1^2\, c1^5\, c2^4$$
$$- 1850904\, a1\, a2^4\, b1^2\, c1^3\, c2^6 + 174960\, a1\, a2^4\, b1^2\, c1\, c2^8 - 1080\, a1\, a2^4\, b1\, b2^9\, c2$$
$$+ 174960\, a1\, a2^4\, b1\, b2^8\, c1^2 - 3240\, a1\, a2^4\, b1\, b2^8\, c2^2 - 656100\, a1\, a2^4\, b1\, b2^7\, c1^2\, c2$$
$$+ 19440\, a1\, a2^4\, b1\, b2^7\, c2^3 - 8537724\, a1\, a2^4\, b1\, b2^6\, c1^4$$
$$+ 1530900\, a1\, a2^4\, b1\, b2^6\, c1^2\, c2^2 - 15120\, a1\, a2^4\, b1\, b2^6\, c2^4$$
$$- 471096\, a1\, a2^4\, b1\, b2^5\, c1^4\, c2 - 27216\, a1\, a2^4\, b1\, b2^5\, c2^5 + 18317464\, a1\, a2^4\, b1\, b2^4\, c1^6$$
$$+ 2355480\, a1\, a2^4\, b1\, b2^4\, c1^4\, c2^2 + 45360\, a1\, a2^4\, b1\, b2^4\, c2^6$$
$$- 7967596\, a1\, a2^4\, b1\, b2^3\, c1^6\, c2 + 895320\, a1\, a2^4\, b1\, b2^3\, c1^4\, c2^3$$
$$- 918540\, a1\, a2^4\, b1\, b2^3\, c1^2\, c2^5 - 15120\, a1\, a2^4\, b1\, b2^3\, c2^7 - 3019356\, a1\, a2^4\, b1\, b2^2\, c1^8$$
$$- 21790956\, a1\, a2^4\, b1\, b2^2\, c1^6\, c2^2 + 4372380\, a1\, a2^4\, b1\, b2^2\, c1^4\, c2^4$$
$$- 306180\, a1\, a2^4\, b1\, b2^2\, c1^2\, c2^6 - 6480\, a1\, a2^4\, b1\, b2^2\, c2^8 + 1075032\, a1\, a2^4\, b1\, b2\, c1^8\, c2$$
$$+ 3961224\, a1\, a2^4\, b1\, b2\, c1^6\, c2^3 + 3145392\, a1\, a2^4\, b1\, b2\, c1^4\, c2^5$$
$$+ 262440\, a1\, a2^4\, b1\, b2\, c1^2\, c2^7 + 3240\, a1\, a2^4\, b1\, b2\, c2^9 + 23544\, a1\, a2^4\, b1\, c1^{10}$$
$$+ 300024\, a1\, a2^4\, b1\, c1^8\, c2^2 + 441504\, a1\, a2^4\, b1\, c1^6\, c2^4 + 77328\, a1\, a2^4\, b1\, c1^4\, c2^6$$
$$- 87480\, a1\, a2^4\, b1\, c1^2\, c2^8 + 216\, a1\, a2^4\, b1\, c2^{10} + 216\, a1\, a2^4\, b2^{10}\, c1$$
$$+ 3240\, a1\, a2^4\, b2^9\, c1\, c2 - 103572\, a1\, a2^4\, b2^8\, c1^3 - 6480\, a1\, a2^4\, b2^8\, c1\, c2^2$$
$$+ 398196\, a1\, a2^4\, b2^7\, c1^3\, c2 - 15120\, a1\, a2^4\, b2^7\, c1\, c2^3 + 3737124\, a1\, a2^4\, b2^6\, c1^5$$
$$- 1210896\, a1\, a2^4\, b2^6\, c1^3\, c2^2 + 45360\, a1\, a2^4\, b2^6\, c1\, c2^4 - 4107024\, a1\, a2^4\, b2^5\, c1^5\, c2$$
$$+ 942192\, a1\, a2^4\, b2^5\, c1^3\, c2^3 - 27216\, a1\, a2^4\, b2^5\, c1\, c2^5 - 4052056\, a1\, a2^4\, b2^4\, c1^7$$
$$+ 2175660\, a1\, a2^4\, b2^4\, c1^5\, c2^2 - 378540\, a1\, a2^4\, b2^4\, c1^3\, c2^4 - 15120\, a1\, a2^4\, b2^4\, c1\, c2^6$$

$$+ 5651644\, a1\, a2^4\, b2^3\, c1^7\, c2 - 1724760\, a1\, a2^4\, b2^3\, c1^5\, c2^3 + 457596\, a1\, a2^4\, b2^3\, c1^3\, c2^5$$
$$+ 19440\, a1\, a2^4\, b2^3\, c1\, c2^7 + 594756\, a1\, a2^4\, b2^2\, c1^9 + 309744\, a1\, a2^4\, b2^2\, c1^7\, c2^2$$
$$- 390420\, a1\, a2^4\, b2^2\, c1^5\, c2^4 - 108648\, a1\, a2^4\, b2^2\, c1^3\, c2^6 - 3240\, a1\, a2^4\, b2^2\, c1\, c2^8$$
$$- 322272\, a1\, a2^4\, b2\, c1^9\, c2 - 650376\, a1\, a2^4\, b2\, c1^7\, c2^3 - 335016\, a1\, a2^4\, b2\, c1^5\, c2^5$$
$$- 7992\, a1\, a2^4\, b2\, c1^3\, c2^7 - 1080\, a1\, a2^4\, b2\, c1\, c2^9 - 2916\, a1\, a2^4\, c1^{11}$$
$$+ 2916\, a1\, a2^4\, c1^9\, c2^2 + 26244\, a1\, a2^4\, c1^7\, c2^4 + 32076\, a1\, a2^4\, c1^5\, c2^6$$
$$+ 11664\, a1\, a2^4\, c1^3\, c2^8 - 2916\, a1\, a2^3\, b1^{11}\, b2 + 14580\, a1\, a2^3\, b1^{11}\, c2$$
$$+ 8748\, a1\, a2^3\, b1^{10}\, b2\, c1 - 102924\, a1\, a2^3\, b1^{10}\, c1\, c2 - 11664\, a1\, a2^3\, b1^9\, b2^3$$
$$+ 23328\, a1\, a2^3\, b1^9\, b2^2\, c2 + 20412\, a1\, a2^3\, b1^9\, b2\, c1^2 + 621216\, a1\, a2^3\, b1^9\, b2\, c2^2$$
$$+ 308340\, a1\, a2^3\, b1^9\, c1^2\, c2 - 1000080\, a1\, a2^3\, b1^9\, c2^3 + 69984\, a1\, a2^3\, b1^8\, b2^3\, c1$$
$$- 1410048\, a1\, a2^3\, b1^8\, b2^2\, c1\, c2 - 142884\, a1\, a2^3\, b1^8\, b2\, c1^3$$
$$- 740016\, a1\, a2^3\, b1^8\, b2\, c1\, c2^2 - 484812\, a1\, a2^3\, b1^8\, c1^3\, c2 + 4272480\, a1\, a2^3\, b1^8\, c1\, c2^3$$
$$- 17496\, a1\, a2^3\, b1^7\, b2^5 - 17496\, a1\, a2^3\, b1^7\, b2^4\, c2 + 460080\, a1\, a2^3\, b1^7\, b2^3\, c1^2$$
$$+ 1335744\, a1\, a2^3\, b1^7\, b2^3\, c2^2 + 4970160\, a1\, a2^3\, b1^7\, b2^2\, c1^2\, c2$$
$$- 1748736\, a1\, a2^3\, b1^7\, b2^2\, c2^3 + 279180\, a1\, a2^3\, b1^7\, b2\, c1^4$$
$$- 2164320\, a1\, a2^3\, b1^7\, b2\, c1^2\, c2^2 - 4777276\, a1\, a2^3\, b1^7\, b2\, c2^4$$
$$+ 398196\, a1\, a2^3\, b1^7\, c1^4\, c2 - 8544960\, a1\, a2^3\, b1^7\, c1^2\, c2^3 + 4197100\, a1\, a2^3\, b1^7\, c2^5$$
$$+ 157464\, a1\, a2^3\, b1^6\, b2^5\, c1 - 2553336\, a1\, a2^3\, b1^6\, b2^4\, c1\, c2$$
$$- 2572560\, a1\, a2^3\, b1^6\, b2^3\, c1^3 - 2815776\, a1\, a2^3\, b1^6\, b2^3\, c1\, c2^2$$
$$- 9265968\, a1\, a2^3\, b1^6\, b2^2\, c1^3\, c2 + 31870384\, a1\, a2^3\, b1^6\, b2^2\, c1\, c2^3$$
$$- 222804\, a1\, a2^3\, b1^6\, b2\, c1^5 + 7023456\, a1\, a2^3\, b1^6\, b2\, c1^3\, c2^2$$
$$- 7967596\, a1\, a2^3\, b1^6\, b2\, c1\, c2^4 - 73116\, a1\, a2^3\, b1^6\, c1^5\, c2$$
$$+ 11169792\, a1\, a2^3\, b1^6\, c1^3\, c2^3 - 13060452\, a1\, a2^3\, b1^6\, c1\, c2^5 - 11664\, a1\, a2^3\, b1^5\, b2^7$$
$$- 46656\, a1\, a2^3\, b1^5\, b2^6\, c2 + 727704\, a1\, a2^3\, b1^5\, b2^5\, c1^2 + 810000\, a1\, a2^3\, b1^5\, b2^5\, c2^2$$
$$+ 10486584\, a1\, a2^3\, b1^5\, b2^4\, c1^2\, c2 - 829440\, a1\, a2^3\, b1^5\, b2^4\, c2^3$$
$$+ 6335280\, a1\, a2^3\, b1^5\, b2^3\, c1^4 - 44487816\, a1\, a2^3\, b1^5\, b2^3\, c1^2\, c2^2$$
$$+ 2554200\, a1\, a2^3\, b1^5\, b2^3\, c2^4 + 12419568\, a1\, a2^3\, b1^5\, b2^2\, c1^4\, c2$$
$$- 47805576\, a1\, a2^3\, b1^5\, b2^2\, c1^2\, c2^3 - 3273048\, a1\, a2^3\, b1^5\, b2^2\, c2^5$$
$$- 73116\, a1\, a2^3\, b1^5\, b2\, c1^6 - 11477376\, a1\, a2^3\, b1^5\, b2\, c1^4\, c2^2$$
$$+ 60468804\, a1\, a2^3\, b1^5\, b2\, c1^2\, c2^4 + 3829032\, a1\, a2^3\, b1^5\, b2\, c2^6$$
$$- 222804\, a1\, a2^3\, b1^5\, c1^6\, c2 - 10178352\, a1\, a2^3\, b1^5\, c1^4\, c2^3 + 9887196\, a1\, a2^3\, b1^5\, c1^2\, c2^5$$
$$- 2682504\, a1\, a2^3\, b1^5\, c2^7 + 139968\, a1\, a2^3\, b1^4\, b2^7\, c1 - 1289088\, a1\, a2^3\, b1^4\, b2^6\, c1\, c2$$
$$- 4946616\, a1\, a2^3\, b1^4\, b2^5\, c1^3 - 2423520\, a1\, a2^3\, b1^4\, b2^5\, c1\, c2^2$$
$$+ 13035832\, a1\, a2^3\, b1^4\, b2^4\, c1^3\, c2 - 1790640\, a1\, a2^3\, b1^4\, b2^4\, c1\, c2^3$$

$$- 10178352\, a1\, a2^3\, b1^4\, b2^3\, c1^5 + 111699272\, a1\, a2^3\, b1^4\, b2^3\, c1^3\, c2^2$$
$$+ 895320\, a1\, a2^3\, b1^4\, b2^3\, c1\, c2^4 - 11477376\, a1\, a2^3\, b1^4\, b2^2\, c1^5\, c2$$
$$- 47907528\, a1\, a2^3\, b1^4\, b2^2\, c1^3\, c2^3 - 2421576\, a1\, a2^3\, b1^4\, b2^2\, c1\, c2^5$$
$$+ 398196\, a1\, a2^3\, b1^4\, b2\, c1^7 + 12419568\, a1\, a2^3\, b1^4\, b2\, c1^5\, c2^2$$
$$- 68885468\, a1\, a2^3\, b1^4\, b2\, c1^3\, c2^4 + 1121256\, a1\, a2^3\, b1^4\, b2\, c1\, c2^6$$
$$+ 279180\, a1\, a2^3\, b1^4\, c1^7\, c2 + 6335280\, a1\, a2^3\, b1^4\, c1^5\, c2^3 + 3125084\, a1\, a2^3\, b1^4\, c1^3\, c2^5$$
$$+ 4718520\, a1\, a2^3\, b1^4\, c1\, c2^7 - 2916\, a1\, a2^3\, b1^3\, b2^9 - 20412\, a1\, a2^3\, b1^3\, b2^8\, c2$$
$$+ 156816\, a1\, a2^3\, b1^3\, b2^7\, c1^2 + 97632\, a1\, a2^3\, b1^3\, b2^7\, c2^2$$
$$+ 6305904\, a1\, a2^3\, b1^3\, b2^6\, c1^2\, c2 - 82944\, a1\, a2^3\, b1^3\, b2^6\, c2^3$$
$$+ 3125084\, a1\, a2^3\, b1^3\, b2^5\, c1^4 + 2961360\, a1\, a2^3\, b1^3\, b2^5\, c1^2\, c2^2$$
$$- 333180\, a1\, a2^3\, b1^3\, b2^5\, c2^4 - 68885468\, a1\, a2^3\, b1^3\, b2^4\, c1^4\, c2$$
$$+ 1790640\, a1\, a2^3\, b1^3\, b2^4\, c1^2\, c2^3 + 636012\, a1\, a2^3\, b1^3\, b2^4\, c2^5$$
$$+ 11169792\, a1\, a2^3\, b1^3\, b2^3\, c1^6 - 47907528\, a1\, a2^3\, b1^3\, b2^3\, c1^4\, c2^2$$
$$- 1790640\, a1\, a2^3\, b1^3\, b2^3\, c1^2\, c2^4 - 1052136\, a1\, a2^3\, b1^3\, b2^3\, c2^6$$
$$+ 7023456\, a1\, a2^3\, b1^3\, b2^2\, c1^6\, c2 + 111699272\, a1\, a2^3\, b1^3\, b2^2\, c1^4\, c2^3$$
$$+ 2958768\, a1\, a2^3\, b1^3\, b2^2\, c1^2\, c2^5 + 1142856\, a1\, a2^3\, b1^3\, b2^2\, c2^7$$
$$- 484812\, a1\, a2^3\, b1^3\, b2\, c1^8 - 9265968\, a1\, a2^3\, b1^3\, b2\, c1^6\, c2^2$$
$$+ 13035832\, a1\, a2^3\, b1^3\, b2\, c1^4\, c2^4 - 9265968\, a1\, a2^3\, b1^3\, b2\, c1^2\, c2^6$$
$$- 484812\, a1\, a2^3\, b1^3\, b2\, c2^8 - 142884\, a1\, a2^3\, b1^3\, c1^8\, c2 - 2572560\, a1\, a2^3\, b1^3\, c1^6\, c2^3$$
$$- 4946616\, a1\, a2^3\, b1^3\, c1^4\, c2^5 - 2417040\, a1\, a2^3\, b1^3\, c1^2\, c2^7 + 99900\, a1\, a2^3\, b1^3\, c2^9$$
$$+ 43740\, a1\, a2^3\, b1^2\, b2^9\, c1 - 43740\, a1\, a2^3\, b1^2\, b2^8\, c1\, c2 - 2417040\, a1\, a2^3\, b1^2\, b2^7\, c1^3$$
$$- 349920\, a1\, a2^3\, b1^2\, b2^7\, c1\, c2^2 - 9265968\, a1\, a2^3\, b1^2\, b2^6\, c1^3\, c2$$
$$+ 1224720\, a1\, a2^3\, b1^2\, b2^6\, c1\, c2^3 + 9887196\, a1\, a2^3\, b1^2\, b2^5\, c1^5$$
$$+ 2958768\, a1\, a2^3\, b1^2\, b2^5\, c1^3\, c2^2 - 918540\, a1\, a2^3\, b1^2\, b2^5\, c1\, c2^4$$
$$+ 60468804\, a1\, a2^3\, b1^2\, b2^4\, c1^5\, c2 - 1790640\, a1\, a2^3\, b1^2\, b2^4\, c1^3\, c2^3$$
$$+ 918540\, a1\, a2^3\, b1^2\, b2^4\, c1\, c2^5 - 8544960\, a1\, a2^3\, b1^2\, b2^3\, c1^7$$
$$- 47805576\, a1\, a2^3\, b1^2\, b2^3\, c1^5\, c2^2 + 1790640\, a1\, a2^3\, b1^2\, b2^3\, c1^3\, c2^4$$
$$- 612360\, a1\, a2^3\, b1^2\, b2^3\, c1\, c2^6 - 2164320\, a1\, a2^3\, b1^2\, b2^2\, c1^7\, c2$$
$$- 44487816\, a1\, a2^3\, b1^2\, b2^2\, c1^5\, c2^3 + 2961360\, a1\, a2^3\, b1^2\, b2^2\, c1^3\, c2^5$$
$$- 612360\, a1\, a2^3\, b1^2\, b2^2\, c1\, c2^7 + 308340\, a1\, a2^3\, b1^2\, b2\, c1^9$$
$$+ 4970160\, a1\, a2^3\, b1^2\, b2\, c1^7\, c2^2 + 10486584\, a1\, a2^3\, b1^2\, b2\, c1^5\, c2^4$$
$$+ 6305904\, a1\, a2^3\, b1^2\, b2\, c1^3\, c2^6 + 481140\, a1\, a2^3\, b1^2\, b2\, c1\, c2^8$$
$$+ 20412\, a1\, a2^3\, b1^2\, c1^9\, c2 + 460080\, a1\, a2^3\, b1^2\, c1^7\, c2^3 + 727704\, a1\, a2^3\, b1^2\, c1^5\, c2^5$$
$$+ 156816\, a1\, a2^3\, b1^2\, c1^3\, c2^7 - 131220\, a1\, a2^3\, b1^2\, c1\, c2^9 - 131220\, a1\, a2^3\, b1\, b2^9\, c1^2$$

$$+ 2160\, a1\, a2^3\, b1\, b2^9\, c2^2 + 481140\, a1\, a2^3\, b1\, b2^8\, c1^2\, c2 - 2160\, a1\, a2^3\, b1\, b2^8\, c2^3$$
$$+ 4718520\, a1\, a2^3\, b1\, b2^7\, c1^4 - 612360\, a1\, a2^3\, b1\, b2^7\, c1^2\, c2^2 - 15120\, a1\, a2^3\, b1\, b2^7\, c2^4$$
$$+ 1121256\, a1\, a2^3\, b1\, b2^6\, c1^4\, c2 - 612360\, a1\, a2^3\, b1\, b2^6\, c1^2\, c2^3$$
$$+ 33264\, a1\, a2^3\, b1\, b2^6\, c2^5 - 13060452\, a1\, a2^3\, b1\, b2^5\, c1^6$$
$$- 2421576\, a1\, a2^3\, b1\, b2^5\, c1^4\, c2^2 + 918540\, a1\, a2^3\, b1\, b2^5\, c1^2\, c2^4$$
$$- 15120\, a1\, a2^3\, b1\, b2^5\, c2^6 - 7967596\, a1\, a2^3\, b1\, b2^4\, c1^6\, c2$$
$$+ 895320\, a1\, a2^3\, b1\, b2^4\, c1^4\, c2^3 - 918540\, a1\, a2^3\, b1\, b2^4\, c1^2\, c2^5$$
$$- 15120\, a1\, a2^3\, b1\, b2^4\, c2^7 + 4272480\, a1\, a2^3\, b1\, b2^3\, c1^8$$
$$+ 31870384\, a1\, a2^3\, b1\, b2^3\, c1^6\, c2^2 - 1790640\, a1\, a2^3\, b1\, b2^3\, c1^4\, c2^4$$
$$+ 1224720\, a1\, a2^3\, b1\, b2^3\, c1^2\, c2^6 + 15120\, a1\, a2^3\, b1\, b2^3\, c2^8$$
$$- 740016\, a1\, a2^3\, b1\, b2^2\, c1^8\, c2 - 2815776\, a1\, a2^3\, b1\, b2^2\, c1^6\, c2^3$$
$$- 2423520\, a1\, a2^3\, b1\, b2^2\, c1^4\, c2^5 - 349920\, a1\, a2^3\, b1\, b2^2\, c1^2\, c2^7$$
$$- 2160\, a1\, a2^3\, b1\, b2^2\, c2^9 - 102924\, a1\, a2^3\, b1\, b2\, c1^{10} - 1410048\, a1\, a2^3\, b1\, b2\, c1^8\, c2^2$$
$$- 2553336\, a1\, a2^3\, b1\, b2\, c1^6\, c2^4 - 1289088\, a1\, a2^3\, b1\, b2\, c1^4\, c2^6$$
$$- 43740\, a1\, a2^3\, b1\, b2\, c1^2\, c2^8 - 864\, a1\, a2^3\, b1\, b2\, c2^{10} + 8748\, a1\, a2^3\, b1\, c1^{10}\, c2$$
$$+ 69984\, a1\, a2^3\, b1\, c1^8\, c2^3 + 157464\, a1\, a2^3\, b1\, c1^6\, c2^5 + 139968\, a1\, a2^3\, b1\, c1^4\, c2^7$$
$$+ 43740\, a1\, a2^3\, b1\, c1^2\, c2^9 - 864\, a1\, a2^3\, b2^{10}\, c1\, c2 + 99900\, a1\, a2^3\, b2^9\, c1^3$$
$$- 2160\, a1\, a2^3\, b2^9\, c1\, c2^2 - 484812\, a1\, a2^3\, b2^8\, c1^3\, c2 + 15120\, a1\, a2^3\, b2^8\, c1\, c2^3$$
$$- 2682504\, a1\, a2^3\, b2^7\, c1^5 + 1142856\, a1\, a2^3\, b2^7\, c1^3\, c2^2 - 15120\, a1\, a2^3\, b2^7\, c1\, c2^4$$
$$+ 3829032\, a1\, a2^3\, b2^6\, c1^5\, c2 - 1052136\, a1\, a2^3\, b2^6\, c1^3\, c2^3 - 15120\, a1\, a2^3\, b2^6\, c1\, c2^5$$
$$+ 4197100\, a1\, a2^3\, b2^5\, c1^7 - 3273048\, a1\, a2^3\, b2^5\, c1^5\, c2^2 + 636012\, a1\, a2^3\, b2^5\, c1^3\, c2^4$$
$$+ 33264\, a1\, a2^3\, b2^5\, c1\, c2^6 - 4777276\, a1\, a2^3\, b2^4\, c1^7\, c2 + 2554200\, a1\, a2^3\, b2^4\, c1^5\, c2^3$$
$$- 333180\, a1\, a2^3\, b2^4\, c1^3\, c2^5 - 15120\, a1\, a2^3\, b2^4\, c1\, c2^7 - 1000080\, a1\, a2^3\, b2^3\, c1^9$$
$$- 1748736\, a1\, a2^3\, b2^3\, c1^7\, c2^2 - 829440\, a1\, a2^3\, b2^3\, c1^5\, c2^4 - 82944\, a1\, a2^3\, b2^3\, c1^3\, c2^6$$
$$- 2160\, a1\, a2^3\, b2^3\, c1\, c2^8 + 621216\, a1\, a2^3\, b2^2\, c1^9\, c2 + 1335744\, a1\, a2^3\, b2^2\, c1^7\, c2^3$$
$$+ 810000\, a1\, a2^3\, b2^2\, c1^5\, c2^5 + 97632\, a1\, a2^3\, b2^2\, c1^3\, c2^7 + 2160\, a1\, a2^3\, b2^2\, c1\, c2^9$$
$$+ 14580\, a1\, a2^3\, b2\, c1^{11} + 23328\, a1\, a2^3\, b2\, c1^9\, c2^2 - 17496\, a1\, a2^3\, b2\, c1^7\, c2^4$$
$$- 46656\, a1\, a2^3\, b2\, c1^5\, c2^6 - 20412\, a1\, a2^3\, b2\, c1^3\, c2^8 - 2916\, a1\, a2^3\, c1^{11}\, c2$$
$$- 11664\, a1\, a2^3\, c1^9\, c2^3 - 17496\, a1\, a2^3\, c1^7\, c2^5 - 11664\, a1\, a2^3\, c1^5\, c2^7$$
$$- 2916\, a1\, a2^3\, c1^3\, c2^9 + 8748\, a1\, a2^2\, b1^{11}\, b2\, c2 - 26244\, a1\, a2^2\, b1^{11}\, c2^2$$
$$- 8748\, a1\, a2^2\, b1^{10}\, b2^2\, c1 - 8748\, a1\, a2^2\, b1^{10}\, b2\, c1\, c2 + 432\, a1\, a2^2\, b1^{10}\, c1^3$$
$$+ 158760\, a1\, a2^2\, b1^{10}\, c1\, c2^2 + 34992\, a1\, a2^2\, b1^9\, b2^3\, c2 + 34992\, a1\, a2^2\, b1^9\, b2^2\, c1^2$$
$$- 87480\, a1\, a2^2\, b1^9\, b2^2\, c2^2 - 131220\, a1\, a2^2\, b1^9\, b2\, c1^2\, c2 - 562896\, a1\, a2^2\, b1^9\, b2\, c2^3$$
$$- 2160\, a1\, a2^2\, b1^9\, c1^4 - 396900\, a1\, a2^2\, b1^9\, c1^2\, c2^2 + 890784\, a1\, a2^2\, b1^9\, c2^4$$

$$- 34992\, a1\, a2^2\, b1^8\, b2^4\, c1 - 69984\, a1\, a2^2\, b1^8\, b2^3\, c1\, c2 - 26244\, a1\, a2^2\, b1^8\, b2^2\, c1^3$$
$$+ 2220048\, a1\, a2^2\, b1^8\, b2^2\, c1\, c2^2 + 481140\, a1\, a2^2\, b1^8\, b2\, c1^3\, c2$$
$$- 740016\, a1\, a2^2\, b1^8\, b2\, c1\, c2^3 + 3888\, a1\, a2^2\, b1^8\, c1^5 + 486648\, a1\, a2^2\, b1^8\, c1^3\, c2^2$$
$$- 3019356\, a1\, a2^2\, b1^8\, c1\, c2^4 + 52488\, a1\, a2^2\, b1^7\, b2^5\, c2 + 157464\, a1\, a2^2\, b1^7\, b2^4\, c1^2$$
$$- 104976\, a1\, a2^2\, b1^7\, b2^4\, c2^2 - 2010096\, a1\, a2^2\, b1^7\, b2^3\, c1^2\, c2$$
$$- 1195776\, a1\, a2^2\, b1^7\, b2^3\, c2^3 - 90720\, a1\, a2^2\, b1^7\, b2^2\, c1^4$$
$$- 4440096\, a1\, a2^2\, b1^7\, b2^2\, c1^2\, c2^2 + 2208384\, a1\, a2^2\, b1^7\, b2^2\, c2^4$$
$$- 656100\, a1\, a2^2\, b1^7\, b2\, c1^4\, c2 + 5124384\, a1\, a2^2\, b1^7\, b2\, c1^2\, c2^3$$
$$+ 1983012\, a1\, a2^2\, b1^7\, b2\, c2^5 - 2160\, a1\, a2^2\, b1^7\, c1^6 - 269244\, a1\, a2^2\, b1^7\, c1^4\, c2^2$$
$$+ 5127624\, a1\, a2^2\, b1^7\, c1^2\, c2^4 - 2429052\, a1\, a2^2\, b1^7\, c2^6 - 52488\, a1\, a2^2\, b1^6\, b2^6\, c1$$
$$- 157464\, a1\, a2^2\, b1^6\, b2^5\, c1\, c2 + 352944\, a1\, a2^2\, b1^6\, b2^4\, c1^3$$
$$+ 4223664\, a1\, a2^2\, b1^6\, b2^4\, c1\, c2^2 + 6305904\, a1\, a2^2\, b1^6\, b2^3\, c1^3\, c2$$
$$- 2815776\, a1\, a2^2\, b1^6\, b2^3\, c1\, c2^3 + 181116\, a1\, a2^2\, b1^6\, b2^2\, c1^5$$
$$+ 4440096\, a1\, a2^2\, b1^6\, b2^2\, c1^3\, c2^2 - 21790956\, a1\, a2^2\, b1^6\, b2^2\, c1\, c2^4$$
$$+ 306180\, a1\, a2^2\, b1^6\, b2\, c1^5\, c2 - 9983520\, a1\, a2^2\, b1^6\, b2\, c1^3\, c2^3$$
$$+ 13496940\, a1\, a2^2\, b1^6\, b2\, c1\, c2^5 - 2160\, a1\, a2^2\, b1^6\, c1^7 - 43416\, a1\, a2^2\, b1^6\, c1^5\, c2^2$$
$$- 5881464\, a1\, a2^2\, b1^6\, c1^3\, c2^4 + 4280736\, a1\, a2^2\, b1^6\, c1\, c2^6 + 34992\, a1\, a2^2\, b1^5\, b2^7\, c2$$
$$+ 262440\, a1\, a2^2\, b1^5\, b2^6\, c1^2 - 52488\, a1\, a2^2\, b1^5\, b2^6\, c2^2$$
$$- 3757752\, a1\, a2^2\, b1^5\, b2^5\, c1^2\, c2 - 705024\, a1\, a2^2\, b1^5\, b2^5\, c2^3$$
$$- 2016576\, a1\, a2^2\, b1^5\, b2^4\, c1^4 - 6335496\, a1\, a2^2\, b1^5\, b2^4\, c1^2\, c2^2$$
$$+ 1503360\, a1\, a2^2\, b1^5\, b2^4\, c2^4 - 10939536\, a1\, a2^2\, b1^5\, b2^3\, c1^4\, c2$$
$$+ 52935144\, a1\, a2^2\, b1^5\, b2^3\, c1^2\, c2^3 - 2735208\, a1\, a2^2\, b1^5\, b2^3\, c2^5$$
$$- 43416\, a1\, a2^2\, b1^5\, b2^2\, c1^6 - 2220048\, a1\, a2^2\, b1^5\, b2^2\, c1^4\, c2^2$$
$$- 3847176\, a1\, a2^2\, b1^5\, b2^2\, c1^2\, c2^4 + 3004128\, a1\, a2^2\, b1^5\, b2^2\, c2^6$$
$$+ 306180\, a1\, a2^2\, b1^5\, b2\, c1^6\, c2 + 12957408\, a1\, a2^2\, b1^5\, b2\, c1^4\, c2^3$$
$$- 34742412\, a1\, a2^2\, b1^5\, b2\, c1^2\, c2^5 - 2499336\, a1\, a2^2\, b1^5\, b2\, c2^7 + 3888\, a1\, a2^2\, b1^5\, c1^8$$
$$+ 181116\, a1\, a2^2\, b1^5\, c1^6\, c2^2 + 4394412\, a1\, a2^2\, b1^5\, c1^4\, c2^4 + 846804\, a1\, a2^2\, b1^5\, c1^2\, c2^6$$
$$+ 1318356\, a1\, a2^2\, b1^5\, c2^8 - 34992\, a1\, a2^2\, b1^4\, b2^8\, c1 - 139968\, a1\, a2^2\, b1^4\, b2^7\, c1\, c2$$
$$+ 725544\, a1\, a2^2\, b1^4\, b2^6\, c1^3 + 2423520\, a1\, a2^2\, b1^4\, b2^6\, c1\, c2^2$$
$$+ 10486584\, a1\, a2^2\, b1^4\, b2^5\, c1^3\, c2 - 2423520\, a1\, a2^2\, b1^4\, b2^5\, c1\, c2^3$$
$$+ 4394412\, a1\, a2^2\, b1^4\, b2^4\, c1^5 - 45770208\, a1\, a2^2\, b1^4\, b2^4\, c1^3\, c2^2$$
$$+ 4372380\, a1\, a2^2\, b1^4\, b2^4\, c1\, c2^4 + 12957408\, a1\, a2^2\, b1^4\, b2^3\, c1^5\, c2$$
$$- 50672328\, a1\, a2^2\, b1^4\, b2^3\, c1^3\, c2^3 - 4035096\, a1\, a2^2\, b1^4\, b2^3\, c1\, c2^5$$
$$- 269244\, a1\, a2^2\, b1^4\, b2^2\, c1^7 - 2220048\, a1\, a2^2\, b1^4\, b2^2\, c1^5\, c2^2$$

$$+ 73934892\, a1\, a2^2\, b1^4\, b2^2\, c1^3\, c2^4 + 3228336\, a1\, a2^2\, b1^4\, b2^2\, c1\, c2^6$$
$$- 656100\, a1\, a2^2\, b1^4\, b2\, c1^7\, c2 - 10939536\, a1\, a2^2\, b1^4\, b2\, c1^5\, c2^3$$
$$+ 11757324\, a1\, a2^2\, b1^4\, b2\, c1^3\, c2^5 - 1402920\, a1\, a2^2\, b1^4\, b2\, c1\, c2^7 - 2160\, a1\, a2^2\, b1^4\, c1^9$$
$$- 90720\, a1\, a2^2\, b1^4\, c1^7\, c2^2 - 2016576\, a1\, a2^2\, b1^4\, c1^5\, c2^4 - 3522096\, a1\, a2^2\, b1^4\, c1^3\, c2^6$$
$$- 1594080\, a1\, a2^2\, b1^4\, c1\, c2^8 + 8748\, a1\, a2^2\, b1^3\, b2^9\, c2 + 192456\, a1\, a2^2\, b1^3\, b2^8\, c1^2$$
$$- 8748\, a1\, a2^2\, b1^3\, b2^8\, c2^2 - 2010096\, a1\, a2^2\, b1^3\, b2^7\, c1^2\, c2 - 74304\, a1\, a2^2\, b1^3\, b2^7\, c2^3$$
$$- 3522096\, a1\, a2^2\, b1^3\, b2^6\, c1^4 - 2423520\, a1\, a2^2\, b1^3\, b2^6\, c1^2\, c2^2$$
$$+ 192240\, a1\, a2^2\, b1^3\, b2^6\, c2^4 + 11757324\, a1\, a2^2\, b1^3\, b2^5\, c1^4\, c2$$
$$+ 1885680\, a1\, a2^2\, b1^3\, b2^5\, c1^2\, c2^3 - 30780\, a1\, a2^2\, b1^3\, b2^5\, c2^5$$
$$- 5881464\, a1\, a2^2\, b1^3\, b2^4\, c1^6 + 73934892\, a1\, a2^2\, b1^3\, b2^4\, c1^4\, c2^2$$
$$- 3700080\, a1\, a2^2\, b1^3\, b2^4\, c1^2\, c2^4 - 292356\, a1\, a2^2\, b1^3\, b2^4\, c2^6$$
$$- 9983520\, a1\, a2^2\, b1^3\, b2^3\, c1^6\, c2 - 50672328\, a1\, a2^2\, b1^3\, b2^3\, c1^4\, c2^3$$
$$+ 4034448\, a1\, a2^2\, b1^3\, b2^3\, c1^2\, c2^5 + 617976\, a1\, a2^2\, b1^3\, b2^3\, c2^7$$
$$+ 486648\, a1\, a2^2\, b1^3\, b2^2\, c1^8 + 4440096\, a1\, a2^2\, b1^3\, b2^2\, c1^6\, c2^2$$
$$- 45770208\, a1\, a2^2\, b1^3\, b2^2\, c1^4\, c2^4 - 3496608\, a1\, a2^2\, b1^3\, b2^2\, c1^2\, c2^6$$
$$- 660312\, a1\, a2^2\, b1^3\, b2^2\, c2^8 + 481140\, a1\, a2^2\, b1^3\, b2\, c1^8\, c2$$
$$+ 6305904\, a1\, a2^2\, b1^3\, b2\, c1^6\, c2^3 + 10486584\, a1\, a2^2\, b1^3\, b2\, c1^4\, c2^5$$
$$+ 4970160\, a1\, a2^2\, b1^3\, b2\, c1^2\, c2^7 + 308340\, a1\, a2^2\, b1^3\, b2\, c2^9 + 432\, a1\, a2^2\, b1^3\, c1^{10}$$
$$- 26244\, a1\, a2^2\, b1^3\, c1^8\, c2^2 + 352944\, a1\, a2^2\, b1^3\, c1^6\, c2^4 + 725544\, a1\, a2^2\, b1^3\, c1^4\, c2^6$$
$$+ 285120\, a1\, a2^2\, b1^3\, c1^2\, c2^8 - 60804\, a1\, a2^2\, b1^3\, c2^{10} - 8748\, a1\, a2^2\, b1^2\, b2^{10}\, c1$$
$$- 43740\, a1\, a2^2\, b1^2\, b2^9\, c1\, c2 + 285120\, a1\, a2^2\, b1^2\, b2^8\, c1^3$$
$$+ 262440\, a1\, a2^2\, b1^2\, b2^8\, c1\, c2^2 + 4970160\, a1\, a2^2\, b1^2\, b2^7\, c1^3\, c2$$
$$- 349920\, a1\, a2^2\, b1^2\, b2^7\, c1\, c2^3 + 846804\, a1\, a2^2\, b1^2\, b2^6\, c1^5$$
$$- 3496608\, a1\, a2^2\, b1^2\, b2^6\, c1^3\, c2^2 - 306180\, a1\, a2^2\, b1^2\, b2^6\, c1\, c2^4$$
$$- 34742412\, a1\, a2^2\, b1^2\, b2^5\, c1^5\, c2 + 4034448\, a1\, a2^2\, b1^2\, b2^5\, c1^3\, c2^3$$
$$+ 918540\, a1\, a2^2\, b1^2\, b2^5\, c1\, c2^5 + 5127624\, a1\, a2^2\, b1^2\, b2^4\, c1^7$$
$$- 3847176\, a1\, a2^2\, b1^2\, b2^4\, c1^5\, c2^2 - 3700080\, a1\, a2^2\, b1^2\, b2^4\, c1^3\, c2^4$$
$$- 1224720\, a1\, a2^2\, b1^2\, b2^4\, c1\, c2^6 + 5124384\, a1\, a2^2\, b1^2\, b2^3\, c1^7\, c2$$
$$+ 52935144\, a1\, a2^2\, b1^2\, b2^3\, c1^5\, c2^3 + 1885680\, a1\, a2^2\, b1^2\, b2^3\, c1^3\, c2^5$$
$$+ 962280\, a1\, a2^2\, b1^2\, b2^3\, c1\, c2^7 - 396900\, a1\, a2^2\, b1^2\, b2^2\, c1^9$$
$$- 4440096\, a1\, a2^2\, b1^2\, b2^2\, c1^7\, c2^2 - 6335496\, a1\, a2^2\, b1^2\, b2^2\, c1^5\, c2^4$$
$$- 2423520\, a1\, a2^2\, b1^2\, b2^2\, c1^3\, c2^6 - 131220\, a1\, a2^2\, b1^2\, b2^2\, c1\, c2^8$$
$$- 131220\, a1\, a2^2\, b1^2\, b2\, c1^9\, c2 - 2010096\, a1\, a2^2\, b1^2\, b2\, c1^7\, c2^3$$
$$- 3757752\, a1\, a2^2\, b1^2\, b2\, c1^5\, c2^5 - 2010096\, a1\, a2^2\, b1^2\, b2\, c1^3\, c2^7$$

$$- 131220\, a1\, a2^2\, b1^2\, b2\, c1\, c2^9 + 34992\, a1\, a2^2\, b1^2\, c1^9\, c2^2 + 157464\, a1\, a2^2\, b1^2\, c1^7\, c2^4$$
$$+ 262440\, a1\, a2^2\, b1^2\, c1^5\, c2^6 + 192456\, a1\, a2^2\, b1^2\, c1^3\, c2^8 + 52488\, a1\, a2^2\, b1^2\, c1\, c2^{10}$$
$$+ 52488\, a1\, a2^2\, b1\, b2^{10}\, c1^2 - 131220\, a1\, a2^2\, b1\, b2^9\, c1^2\, c2 - 2160\, a1\, a2^2\, b1\, b2^9\, c2^3$$
$$- 1594080\, a1\, a2^2\, b1\, b2^8\, c1^4 - 131220\, a1\, a2^2\, b1\, b2^8\, c1^2\, c2^2 + 6480\, a1\, a2^2\, b1\, b2^8\, c2^4$$
$$- 1402920\, a1\, a2^2\, b1\, b2^7\, c1^4\, c2 + 962280\, a1\, a2^2\, b1\, b2^7\, c1^2\, c2^3$$
$$- 1296\, a1\, a2^2\, b1\, b2^7\, c2^5 + 4280736\, a1\, a2^2\, b1\, b2^6\, c1^6 + 3228336\, a1\, a2^2\, b1\, b2^6\, c1^4\, c2^2$$
$$- 1224720\, a1\, a2^2\, b1\, b2^6\, c1^2\, c2^4 - 15120\, a1\, a2^2\, b1\, b2^6\, c2^6$$
$$+ 13496940\, a1\, a2^2\, b1\, b2^5\, c1^6\, c2 - 4035096\, a1\, a2^2\, b1\, b2^5\, c1^4\, c2^3$$
$$+ 918540\, a1\, a2^2\, b1\, b2^5\, c1^2\, c2^5 + 19440\, a1\, a2^2\, b1\, b2^5\, c2^7 - 3019356\, a1\, a2^2\, b1\, b2^4\, c1^8$$
$$- 21790956\, a1\, a2^2\, b1\, b2^4\, c1^6\, c2^2 + 4372380\, a1\, a2^2\, b1\, b2^4\, c1^4\, c2^4$$
$$- 306180\, a1\, a2^2\, b1\, b2^4\, c1^2\, c2^6 - 6480\, a1\, a2^2\, b1\, b2^4\, c2^8 - 740016\, a1\, a2^2\, b1\, b2^3\, c1^8\, c2$$
$$- 2815776\, a1\, a2^2\, b1\, b2^3\, c1^6\, c2^3 - 2423520\, a1\, a2^2\, b1\, b2^3\, c1^4\, c2^5$$
$$- 349920\, a1\, a2^2\, b1\, b2^3\, c1^2\, c2^7 - 2160\, a1\, a2^2\, b1\, b2^3\, c2^9 + 158760\, a1\, a2^2\, b1\, b2^2\, c1^{10}$$
$$+ 2220048\, a1\, a2^2\, b1\, b2^2\, c1^8\, c2^2 + 4223664\, a1\, a2^2\, b1\, b2^2\, c1^6\, c2^4$$
$$+ 2423520\, a1\, a2^2\, b1\, b2^2\, c1^4\, c2^6 + 262440\, a1\, a2^2\, b1\, b2^2\, c1^2\, c2^8$$
$$+ 1296\, a1\, a2^2\, b1\, b2^2\, c2^{10} - 8748\, a1\, a2^2\, b1\, b2\, c1^{10}\, c2 - 69984\, a1\, a2^2\, b1\, b2\, c1^8\, c2^3$$
$$- 157464\, a1\, a2^2\, b1\, b2\, c1^6\, c2^5 - 139968\, a1\, a2^2\, b1\, b2\, c1^4\, c2^7$$
$$- 43740\, a1\, a2^2\, b1\, b2\, c1^2\, c2^9 - 8748\, a1\, a2^2\, b1\, c1^{10}\, c2^2 - 34992\, a1\, a2^2\, b1\, c1^8\, c2^4$$
$$- 52488\, a1\, a2^2\, b1\, c1^6\, c2^6 - 34992\, a1\, a2^2\, b1\, c1^4\, c2^8 - 8748\, a1\, a2^2\, b1\, c1^2\, c2^{10}$$
$$- 60804\, a1\, a2^2\, b2^{10}\, c1^3 + 1296\, a1\, a2^2\, b2^{10}\, c1\, c2^2 + 308340\, a1\, a2^2\, b2^9\, c1^3\, c2$$
$$- 2160\, a1\, a2^2\, b2^9\, c1\, c2^3 + 1318356\, a1\, a2^2\, b2^8\, c1^5 - 660312\, a1\, a2^2\, b2^8\, c1^3\, c2^2$$
$$- 6480\, a1\, a2^2\, b2^8\, c1\, c2^4 - 2499336\, a1\, a2^2\, b2^7\, c1^5\, c2 + 617976\, a1\, a2^2\, b2^7\, c1^3\, c2^3$$
$$+ 19440\, a1\, a2^2\, b2^7\, c1\, c2^5 - 2429052\, a1\, a2^2\, b2^6\, c1^7 + 3004128\, a1\, a2^2\, b2^6\, c1^5\, c2^2$$
$$- 292356\, a1\, a2^2\, b2^6\, c1^3\, c2^4 - 15120\, a1\, a2^2\, b2^6\, c1\, c2^6 + 1983012\, a1\, a2^2\, b2^5\, c1^7\, c2$$
$$- 2735208\, a1\, a2^2\, b2^5\, c1^5\, c2^3 - 30780\, a1\, a2^2\, b2^5\, c1^3\, c2^5 - 1296\, a1\, a2^2\, b2^5\, c1\, c2^7$$
$$+ 890784\, a1\, a2^2\, b2^4\, c1^9 + 2208384\, a1\, a2^2\, b2^4\, c1^7\, c2^2 + 1503360\, a1\, a2^2\, b2^4\, c1^5\, c2^4$$
$$+ 192240\, a1\, a2^2\, b2^4\, c1^3\, c2^6 + 6480\, a1\, a2^2\, b2^4\, c1\, c2^8 - 562896\, a1\, a2^2\, b2^3\, c1^9\, c2$$
$$- 1195776\, a1\, a2^2\, b2^3\, c1^7\, c2^3 - 705024\, a1\, a2^2\, b2^3\, c1^5\, c2^5 - 74304\, a1\, a2^2\, b2^3\, c1^3\, c2^7$$
$$- 2160\, a1\, a2^2\, b2^3\, c1\, c2^9 - 26244\, a1\, a2^2\, b2^2\, c1^{11} - 87480\, a1\, a2^2\, b2^2\, c1^9\, c2^2$$
$$- 104976\, a1\, a2^2\, b2^2\, c1^7\, c2^4 - 52488\, a1\, a2^2\, b2^2\, c1^5\, c2^6 - 8748\, a1\, a2^2\, b2^2\, c1^3\, c2^8$$
$$+ 8748\, a1\, a2^2\, b2\, c1^{11}\, c2 + 34992\, a1\, a2^2\, b2\, c1^9\, c2^3 + 52488\, a1\, a2^2\, b2\, c1^7\, c2^5$$
$$+ 34992\, a1\, a2^2\, b2\, c1^5\, c2^7 + 8748\, a1\, a2^2\, b2\, c1^3\, c2^9 - 8748\, a1\, a2\, b1^{11}\, b2\, c2^2$$
$$+ 20412\, a1\, a2\, b1^{11}\, c2^3 + 17496\, a1\, a2\, b1^{10}\, b2^2\, c1\, c2 - 8748\, a1\, a2\, b1^{10}\, b2\, c1\, c2^2$$
$$- 864\, a1\, a2\, b1^{10}\, c1^3\, c2 - 102924\, a1\, a2\, b1^{10}\, c1\, c2^3 - 8748\, a1\, a2\, b1^9\, b2^3\, c1^2$$

$$- 34992\, a1\, a2\, b1^9\, b2^3\, c2^2 - 43740\, a1\, a2\, b1^9\, b2^2\, c1^2\, c2 + 93312\, a1\, a2\, b1^9\, b2^2\, c2^3$$
$$+ 1080\, a1\, a2\, b1^9\, b2\, c1^4 + 174960\, a1\, a2\, b1^9\, b2\, c1^2\, c2^2 + 234792\, a1\, a2\, b1^9\, b2\, c2^4$$
$$+ 3240\, a1\, a2\, b1^9\, c1^4\, c2 + 206280\, a1\, a2\, b1^9\, c1^2\, c2^3 - 403272\, a1\, a2\, b1^9\, c2^5$$
$$+ 69984\, a1\, a2\, b1^8\, b2^4\, c1\, c2 + 32076\, a1\, a2\, b1^8\, b2^3\, c1^3 - 69984\, a1\, a2\, b1^8\, b2^3\, c1\, c2^2$$
$$- 43740\, a1\, a2\, b1^8\, b2^2\, c1^3\, c2 - 1410048\, a1\, a2\, b1^8\, b2^2\, c1\, c2^3 - 4536\, a1\, a2\, b1^8\, b2\, c1^5$$
$$- 437400\, a1\, a2\, b1^8\, b2\, c1^3\, c2^2 + 1075032\, a1\, a2\, b1^8\, b2\, c1\, c2^4 - 3240\, a1\, a2\, b1^8\, c1^5\, c2$$
$$- 178632\, a1\, a2\, b1^8\, c1^3\, c2^3 + 992736\, a1\, a2\, b1^8\, c1\, c2^5 - 34992\, a1\, a2\, b1^7\, b2^5\, c1^2$$
$$- 52488\, a1\, a2\, b1^7\, b2^5\, c2^2 - 139968\, a1\, a2\, b1^7\, b2^4\, c1^2\, c2 + 157464\, a1\, a2\, b1^7\, b2^4\, c2^3$$
$$- 27000\, a1\, a2\, b1^7\, b2^3\, c1^4 + 2290032\, a1\, a2\, b1^7\, b2^3\, c1^2\, c2^2 + 440424\, a1\, a2\, b1^7\, b2^3\, c2^4$$
$$+ 262440\, a1\, a2\, b1^7\, b2^2\, c1^4\, c2 + 670032\, a1\, a2\, b1^7\, b2^2\, c1^2\, c2^3$$
$$- 1147608\, a1\, a2\, b1^7\, b2^2\, c2^5 + 6480\, a1\, a2\, b1^7\, b2\, c1^6 + 393660\, a1\, a2\, b1^7\, b2\, c1^4\, c2^2$$
$$- 2897208\, a1\, a2\, b1^7\, b2\, c1^2\, c2^4 - 278468\, a1\, a2\, b1^7\, b2\, c2^6 - 2160\, a1\, a2\, b1^7\, c1^6\, c2$$
$$+ 48276\, a1\, a2\, b1^7\, c1^4\, c2^3 - 1471608\, a1\, a2\, b1^7\, c1^2\, c2^5 + 733796\, a1\, a2\, b1^7\, c2^7$$
$$+ 104976\, a1\, a2\, b1^6\, b2^6\, c1\, c2 + 116640\, a1\, a2\, b1^6\, b2^5\, c1^3$$
$$- 157464\, a1\, a2\, b1^6\, b2^5\, c1\, c2^2 - 1289088\, a1\, a2\, b1^6\, b2^4\, c1^3\, c2$$
$$- 2553336\, a1\, a2\, b1^6\, b2^4\, c1\, c2^3 - 39096\, a1\, a2\, b1^6\, b2^3\, c1^5$$
$$- 3727728\, a1\, a2\, b1^6\, b2^3\, c1^3\, c2^2 + 3961224\, a1\, a2\, b1^6\, b2^3\, c1\, c2^4$$
$$- 244944\, a1\, a2\, b1^6\, b2^2\, c1^5\, c2 + 767664\, a1\, a2\, b1^6\, b2^2\, c1^3\, c2^3$$
$$+ 6339648\, a1\, a2\, b1^6\, b2^2\, c1\, c2^5 - 2160\, a1\, a2\, b1^6\, b2\, c1^7 - 61236\, a1\, a2\, b1^6\, b2\, c1^5\, c2^2$$
$$+ 4607928\, a1\, a2\, b1^6\, b2\, c1^3\, c2^4 - 6612196\, a1\, a2\, b1^6\, b2\, c1\, c2^6 + 6480\, a1\, a2\, b1^6\, c1^7\, c2$$
$$+ 49356\, a1\, a2\, b1^6\, c1^5\, c2^3 + 1431000\, a1\, a2\, b1^6\, c1^3\, c2^5 - 278468\, a1\, a2\, b1^6\, c1\, c2^7$$
$$- 52488\, a1\, a2\, b1^5\, b2^7\, c1^2 - 34992\, a1\, a2\, b1^5\, b2^7\, c2^2 - 157464\, a1\, a2\, b1^5\, b2^6\, c1^2\, c2$$
$$+ 116640\, a1\, a2\, b1^5\, b2^6\, c2^3 + 177552\, a1\, a2\, b1^5\, b2^5\, c1^4$$
$$+ 4230144\, a1\, a2\, b1^5\, b2^5\, c1^2\, c2^2 + 177552\, a1\, a2\, b1^5\, b2^5\, c2^4$$
$$+ 3145392\, a1\, a2\, b1^5\, b2^4\, c1^4\, c2 - 2826576\, a1\, a2\, b1^5\, b2^4\, c1^2\, c2^3$$
$$- 778896\, a1\, a2\, b1^5\, b2^4\, c2^5 + 49356\, a1\, a2\, b1^5\, b2^3\, c1^6 + 4648752\, a1\, a2\, b1^5\, b2^3\, c1^4\, c2^2$$
$$- 23640996\, a1\, a2\, b1^5\, b2^3\, c1^2\, c2^4 + 1431000\, a1\, a2\, b1^5\, b2^3\, c2^6$$
$$- 61236\, a1\, a2\, b1^5\, b2^2\, c1^6\, c2 - 3168720\, a1\, a2\, b1^5\, b2^2\, c1^4\, c2^3$$
$$+ 15723468\, a1\, a2\, b1^5\, b2^2\, c1^2\, c2^5 - 1471608\, a1\, a2\, b1^5\, b2^2\, c2^7 - 3240\, a1\, a2\, b1^5\, b2\, c1^8$$
$$- 244944\, a1\, a2\, b1^5\, b2\, c1^6\, c2^2 - 4894344\, a1\, a2\, b1^5\, b2\, c1^4\, c2^4$$
$$+ 6339648\, a1\, a2\, b1^5\, b2\, c1^2\, c2^6 + 992736\, a1\, a2\, b1^5\, b2\, c2^8 - 4536\, a1\, a2\, b1^5\, c1^8\, c2$$
$$- 39096\, a1\, a2\, b1^5\, c1^6\, c2^3 - 778896\, a1\, a2\, b1^5\, c1^4\, c2^5 - 1147608\, a1\, a2\, b1^5\, c1^2\, c2^7$$
$$- 403272\, a1\, a2\, b1^5\, c2^9 + 69984\, a1\, a2\, b1^4\, b2^8\, c1\, c2 + 157464\, a1\, a2\, b1^4\, b2^7\, c1^3$$
$$- 139968\, a1\, a2\, b1^4\, b2^7\, c1\, c2^2 - 2553336\, a1\, a2\, b1^4\, b2^6\, c1^3\, c2$$

$$- 1289088\, a1\, a2\, b1^4\, b2^6\, c1\, c2^3 - 778896\, a1\, a2\, b1^4\, b2^5\, c1^5$$
$$- 2826576\, a1\, a2\, b1^4\, b2^5\, c1^3\, c2^2 + 3145392\, a1\, a2\, b1^4\, b2^5\, c1\, c2^4$$
$$- 4894344\, a1\, a2\, b1^4\, b2^4\, c1^5\, c2 + 35224432\, a1\, a2\, b1^4\, b2^4\, c1^3\, c2^3$$
$$- 4894344\, a1\, a2\, b1^4\, b2^4\, c1\, c2^5 + 48276\, a1\, a2\, b1^4\, b2^3\, c1^7$$
$$- 3168720\, a1\, a2\, b1^4\, b2^3\, c1^5\, c2^2 - 9888268\, a1\, a2\, b1^4\, b2^3\, c1^3\, c2^4$$
$$+ 4607928\, a1\, a2\, b1^4\, b2^3\, c1\, c2^6 + 393660\, a1\, a2\, b1^4\, b2^2\, c1^7\, c2$$
$$+ 4648752\, a1\, a2\, b1^4\, b2^2\, c1^5\, c2^3 - 23640996\, a1\, a2\, b1^4\, b2^2\, c1^3\, c2^5$$
$$- 2897208\, a1\, a2\, b1^4\, b2^2\, c1\, c2^7 + 3240\, a1\, a2\, b1^4\, b2\, c1^9 + 262440\, a1\, a2\, b1^4\, b2\, c1^7\, c2^2$$
$$+ 3145392\, a1\, a2\, b1^4\, b2\, c1^5\, c2^4 + 3961224\, a1\, a2\, b1^4\, b2\, c1^3\, c2^6$$
$$+ 1075032\, a1\, a2\, b1^4\, b2\, c1\, c2^8 + 1080\, a1\, a2\, b1^4\, c1^9\, c2 - 27000\, a1\, a2\, b1^4\, c1^7\, c2^3$$
$$+ 177552\, a1\, a2\, b1^4\, c1^5\, c2^5 + 440424\, a1\, a2\, b1^4\, c1^3\, c2^7 + 234792\, a1\, a2\, b1^4\, c1\, c2^9$$
$$- 34992\, a1\, a2\, b1^3\, b2^9\, c1^2 - 8748\, a1\, a2\, b1^3\, b2^9\, c2^2 - 69984\, a1\, a2\, b1^3\, b2^8\, c1^2\, c2$$
$$+ 32076\, a1\, a2\, b1^3\, b2^8\, c2^3 + 440424\, a1\, a2\, b1^3\, b2^7\, c1^4 + 2290032\, a1\, a2\, b1^3\, b2^7\, c1^2\, c2^2$$
$$- 27000\, a1\, a2\, b1^3\, b2^7\, c2^4 + 3961224\, a1\, a2\, b1^3\, b2^6\, c1^4\, c2$$
$$- 3727728\, a1\, a2\, b1^3\, b2^6\, c1^2\, c2^3 - 39096\, a1\, a2\, b1^3\, b2^6\, c2^5$$
$$+ 1431000\, a1\, a2\, b1^3\, b2^5\, c1^6 - 23640996\, a1\, a2\, b1^3\, b2^5\, c1^4\, c2^2$$
$$+ 4648752\, a1\, a2\, b1^3\, b2^5\, c1^2\, c2^4 + 49356\, a1\, a2\, b1^3\, b2^5\, c2^6$$
$$+ 4607928\, a1\, a2\, b1^3\, b2^4\, c1^6\, c2 - 9888268\, a1\, a2\, b1^3\, b2^4\, c1^4\, c2^3$$
$$- 3168720\, a1\, a2\, b1^3\, b2^4\, c1^2\, c2^5 + 48276\, a1\, a2\, b1^3\, b2^4\, c2^7 - 178632\, a1\, a2\, b1^3\, b2^3\, c1^8$$
$$+ 767664\, a1\, a2\, b1^3\, b2^3\, c1^6\, c2^2 + 35224432\, a1\, a2\, b1^3\, b2^3\, c1^4\, c2^4$$
$$+ 767664\, a1\, a2\, b1^3\, b2^3\, c1^2\, c2^6 - 178632\, a1\, a2\, b1^3\, b2^3\, c2^8$$
$$- 437400\, a1\, a2\, b1^3\, b2^2\, c1^8\, c2 - 3727728\, a1\, a2\, b1^3\, b2^2\, c1^6\, c2^3$$
$$- 2826576\, a1\, a2\, b1^3\, b2^2\, c1^4\, c2^5 + 670032\, a1\, a2\, b1^3\, b2^2\, c1^2\, c2^7$$
$$+ 206280\, a1\, a2\, b1^3\, b2^2\, c2^9 - 864\, a1\, a2\, b1^3\, b2\, c1^{10} - 43740\, a1\, a2\, b1^3\, b2\, c1^8\, c2^2$$
$$- 1289088\, a1\, a2\, b1^3\, b2\, c1^6\, c2^4 - 2553336\, a1\, a2\, b1^3\, b2\, c1^4\, c2^6$$
$$- 1410048\, a1\, a2\, b1^3\, b2\, c1^2\, c2^8 - 102924\, a1\, a2\, b1^3\, b2\, c2^{10} + 32076\, a1\, a2\, b1^3\, c1^8\, c2^3$$
$$+ 116640\, a1\, a2\, b1^3\, c1^6\, c2^5 + 157464\, a1\, a2\, b1^3\, c1^4\, c2^7 + 93312\, a1\, a2\, b1^3\, c1^2\, c2^9$$
$$+ 20412\, a1\, a2\, b1^3\, c2^{11} + 17496\, a1\, a2\, b1^2\, b2^{10}\, c1\, c2 + 93312\, a1\, a2\, b1^2\, b2^9\, c1^3$$
$$- 43740\, a1\, a2\, b1^2\, b2^9\, c1\, c2^2 - 1410048\, a1\, a2\, b1^2\, b2^8\, c1^3\, c2$$
$$- 43740\, a1\, a2\, b1^2\, b2^8\, c1\, c2^3 - 1147608\, a1\, a2\, b1^2\, b2^7\, c1^5$$
$$+ 670032\, a1\, a2\, b1^2\, b2^7\, c1^3\, c2^2 + 262440\, a1\, a2\, b1^2\, b2^7\, c1\, c2^4$$
$$+ 6339648\, a1\, a2\, b1^2\, b2^6\, c1^5\, c2 + 767664\, a1\, a2\, b1^2\, b2^6\, c1^3\, c2^3$$
$$- 244944\, a1\, a2\, b1^2\, b2^6\, c1\, c2^5 - 1471608\, a1\, a2\, b1^2\, b2^5\, c1^7$$
$$+ 15723468\, a1\, a2\, b1^2\, b2^5\, c1^5\, c2^2 - 3168720\, a1\, a2\, b1^2\, b2^5\, c1^3\, c2^4$$

$$- 61236\, a1\, a2\, b1^2\, b2^5\, c1\, c2^6 - 2897208\, a1\, a2\, b1^2\, b2^4\, c1^7\, c2$$
$$- 23640996\, a1\, a2\, b1^2\, b2^4\, c1^5\, c2^3 + 4648752\, a1\, a2\, b1^2\, b2^4\, c1^3\, c2^5$$
$$+ 393660\, a1\, a2\, b1^2\, b2^4\, c1\, c2^7 + 206280\, a1\, a2\, b1^2\, b2^3\, c1^9$$
$$+ 670032\, a1\, a2\, b1^2\, b2^3\, c1^7\, c2^2 - 2826576\, a1\, a2\, b1^2\, b2^3\, c1^5\, c2^4$$
$$- 3727728\, a1\, a2\, b1^2\, b2^3\, c1^3\, c2^6 - 437400\, a1\, a2\, b1^2\, b2^3\, c1\, c2^8$$
$$+ 174960\, a1\, a2\, b1^2\, b2^2\, c1^9\, c2 + 2290032\, a1\, a2\, b1^2\, b2^2\, c1^7\, c2^3$$
$$+ 4230144\, a1\, a2\, b1^2\, b2^2\, c1^5\, c2^5 + 2290032\, a1\, a2\, b1^2\, b2^2\, c1^3\, c2^7$$
$$+ 174960\, a1\, a2\, b1^2\, b2^2\, c1\, c2^9 - 43740\, a1\, a2\, b1^2\, b2\, c1^9\, c2^2$$
$$- 139968\, a1\, a2\, b1^2\, b2\, c1^7\, c2^4 - 157464\, a1\, a2\, b1^2\, b2\, c1^5\, c2^6$$
$$- 69984\, a1\, a2\, b1^2\, b2\, c1^3\, c2^8 - 8748\, a1\, a2\, b1^2\, b2\, c1\, c2^{10} - 8748\, a1\, a2\, b1^2\, c1^9\, c2^3$$
$$- 34992\, a1\, a2\, b1^2\, c1^7\, c2^5 - 52488\, a1\, a2\, b1^2\, c1^5\, c2^7 - 34992\, a1\, a2\, b1^2\, c1^3\, c2^9$$
$$- 8748\, a1\, a2\, b1^2\, c1\, c2^{11} - 8748\, a1\, a2\, b1\, b2^{11}\, c1^2 - 8748\, a1\, a2\, b1\, b2^{10}\, c1^2\, c2$$
$$+ 234792\, a1\, a2\, b1\, b2^9\, c1^4 + 174960\, a1\, a2\, b1\, b2^9\, c1^2\, c2^2 + 1080\, a1\, a2\, b1\, b2^9\, c2^4$$
$$+ 1075032\, a1\, a2\, b1\, b2^8\, c1^4\, c2 - 437400\, a1\, a2\, b1\, b2^8\, c1^2\, c2^3 - 4536\, a1\, a2\, b1\, b2^8\, c2^5$$
$$- 278468\, a1\, a2\, b1\, b2^7\, c1^6 - 2897208\, a1\, a2\, b1\, b2^7\, c1^4\, c2^2$$
$$+ 393660\, a1\, a2\, b1\, b2^7\, c1^2\, c2^4 + 6480\, a1\, a2\, b1\, b2^7\, c2^6 - 6612196\, a1\, a2\, b1\, b2^6\, c1^6\, c2$$
$$+ 4607928\, a1\, a2\, b1\, b2^6\, c1^4\, c2^3 - 61236\, a1\, a2\, b1\, b2^6\, c1^2\, c2^5 - 2160\, a1\, a2\, b1\, b2^6\, c2^7$$
$$+ 992736\, a1\, a2\, b1\, b2^5\, c1^8 + 6339648\, a1\, a2\, b1\, b2^5\, c1^6\, c2^2$$
$$- 4894344\, a1\, a2\, b1\, b2^5\, c1^4\, c2^4 - 244944\, a1\, a2\, b1\, b2^5\, c1^2\, c2^6 - 3240\, a1\, a2\, b1\, b2^5\, c2^8$$
$$+ 1075032\, a1\, a2\, b1\, b2^4\, c1^8\, c2 + 3961224\, a1\, a2\, b1\, b2^4\, c1^6\, c2^3$$
$$+ 3145392\, a1\, a2\, b1\, b2^4\, c1^4\, c2^5 + 262440\, a1\, a2\, b1\, b2^4\, c1^2\, c2^7 + 3240\, a1\, a2\, b1\, b2^4\, c2^9$$
$$- 102924\, a1\, a2\, b1\, b2^3\, c1^{10} - 1410048\, a1\, a2\, b1\, b2^3\, c1^8\, c2^2$$
$$- 2553336\, a1\, a2\, b1\, b2^3\, c1^6\, c2^4 - 1289088\, a1\, a2\, b1\, b2^3\, c1^4\, c2^6$$
$$- 43740\, a1\, a2\, b1\, b2^3\, c1^2\, c2^8 - 864\, a1\, a2\, b1\, b2^3\, c2^{10} - 8748\, a1\, a2\, b1\, b2^2\, c1^{10}\, c2$$
$$- 69984\, a1\, a2\, b1\, b2^2\, c1^8\, c2^3 - 157464\, a1\, a2\, b1\, b2^2\, c1^6\, c2^5$$
$$- 139968\, a1\, a2\, b1\, b2^2\, c1^4\, c2^7 - 43740\, a1\, a2\, b1\, b2^2\, c1^2\, c2^9$$
$$+ 17496\, a1\, a2\, b1\, b2\, c1^{10}\, c2^2 + 69984\, a1\, a2\, b1\, b2\, c1^8\, c2^4 + 104976\, a1\, a2\, b1\, b2\, c1^6\, c2^6$$
$$+ 69984\, a1\, a2\, b1\, b2\, c1^4\, c2^8 + 17496\, a1\, a2\, b1\, b2\, c1^2\, c2^{10} + 20412\, a1\, a2\, b2^{11}\, c1^3$$
$$- 102924\, a1\, a2\, b2^{10}\, c1^3\, c2 - 864\, a1\, a2\, b2^{10}\, c1\, c2^3 - 403272\, a1\, a2\, b2^9\, c1^5$$
$$+ 206280\, a1\, a2\, b2^9\, c1^3\, c2^2 + 3240\, a1\, a2\, b2^9\, c1\, c2^4 + 992736\, a1\, a2\, b2^8\, c1^5\, c2$$
$$- 178632\, a1\, a2\, b2^8\, c1^3\, c2^3 - 3240\, a1\, a2\, b2^8\, c1\, c2^5 + 733796\, a1\, a2\, b2^7\, c1^7$$
$$- 1471608\, a1\, a2\, b2^7\, c1^5\, c2^2 + 48276\, a1\, a2\, b2^7\, c1^3\, c2^4 - 2160\, a1\, a2\, b2^7\, c1\, c2^6$$
$$- 278468\, a1\, a2\, b2^6\, c1^7\, c2 + 1431000\, a1\, a2\, b2^6\, c1^5\, c2^3 + 49356\, a1\, a2\, b2^6\, c1^3\, c2^5$$
$$+ 6480\, a1\, a2\, b2^6\, c1\, c2^7 - 403272\, a1\, a2\, b2^5\, c1^9 - 1147608\, a1\, a2\, b2^5\, c1^7\, c2^2$$

$$- 778896\, a1\, a2\, b2^5\, c1^5\, c2^4 - 39096\, a1\, a2\, b2^5\, c1^3\, c2^6 - 4536\, a1\, a2\, b2^5\, c1\, c2^8$$
$$+ 234792\, a1\, a2\, b2^4\, c1^9\, c2 + 440424\, a1\, a2\, b2^4\, c1^7\, c2^3 + 177552\, a1\, a2\, b2^4\, c1^5\, c2^5$$
$$- 27000\, a1\, a2\, b2^4\, c1^3\, c2^7 + 1080\, a1\, a2\, b2^4\, c1\, c2^9 + 20412\, a1\, a2\, b2^3\, c1^{11}$$
$$+ 93312\, a1\, a2\, b2^3\, c1^9\, c2^2 + 157464\, a1\, a2\, b2^3\, c1^7\, c2^4 + 116640\, a1\, a2\, b2^3\, c1^5\, c2^6$$
$$+ 32076\, a1\, a2\, b2^3\, c1^3\, c2^8 - 8748\, a1\, a2\, b2^2\, c1^{11}\, c2 - 34992\, a1\, a2\, b2^2\, c1^9\, c2^3$$
$$- 52488\, a1\, a2\, b2^2\, c1^7\, c2^5 - 34992\, a1\, a2\, b2^2\, c1^5\, c2^7 - 8748\, a1\, a2\, b2^2\, c1^3\, c2^9$$
$$+ 2916\, a1\, b1^{11}\, b2\, c2^3 - 5832\, a1\, b1^{11}\, c2^4 - 8748\, a1\, b1^{10}\, b2^2\, c1\, c2^2$$
$$+ 8748\, a1\, b1^{10}\, b2\, c1\, c2^3 + 432\, a1\, b1^{10}\, c1^3\, c2^2 + 23544\, a1\, b1^{10}\, c1\, c2^4$$
$$+ 8748\, a1\, b1^9\, b2^3\, c1^2\, c2 + 11664\, a1\, b1^9\, b2^3\, c2^3 + 8748\, a1\, b1^9\, b2^2\, c1^2\, c2^2$$
$$- 32076\, a1\, b1^9\, b2^2\, c2^4 - 1080\, a1\, b1^9\, b2\, c1^4\, c2 - 64152\, a1\, b1^9\, b2\, c1^2\, c2^3$$
$$- 34128\, a1\, b1^9\, b2\, c2^5 - 1080\, a1\, b1^9\, c1^4\, c2^2 - 35532\, a1\, b1^9\, c1^2\, c2^4 + 72900\, a1\, b1^9\, c2^6$$
$$- 2916\, a1\, b1^8\, b2^4\, c1^3 - 34992\, a1\, b1^8\, b2^4\, c1\, c2^2 - 20412\, a1\, b1^8\, b2^3\, c1^3\, c2$$
$$+ 69984\, a1\, b1^8\, b2^3\, c1\, c2^3 + 648\, a1\, b1^8\, b2^2\, c1^5 + 52488\, a1\, b1^8\, b2^2\, c1^3\, c2^2$$
$$+ 300024\, a1\, b1^8\, b2^2\, c1\, c2^4 + 3240\, a1\, b1^8\, b2\, c1^5\, c2 + 110808\, a1\, b1^8\, b2\, c1^3\, c2^3$$
$$- 335016\, a1\, b1^8\, b2\, c1\, c2^5 + 16956\, a1\, b1^8\, c1^3\, c2^4 - 109620\, a1\, b1^8\, c1\, c2^6$$
$$+ 34992\, a1\, b1^7\, b2^5\, c1^2\, c2 + 17496\, a1\, b1^7\, b2^5\, c2^3 + 8748\, a1\, b1^7\, b2^4\, c1^4$$
$$- 17496\, a1\, b1^7\, b2^4\, c1^2\, c2^2 - 61236\, a1\, b1^7\, b2^4\, c2^4 - 7992\, a1\, b1^7\, b2^3\, c1^4\, c2$$
$$- 740016\, a1\, b1^7\, b2^3\, c1^2\, c2^3 - 39096\, a1\, b1^7\, b2^3\, c2^5 - 2160\, a1\, b1^7\, b2^2\, c1^6$$
$$- 119232\, a1\, b1^7\, b2^2\, c1^4\, c2^2 + 387504\, a1\, b1^7\, b2^2\, c1^2\, c2^4 + 210816\, a1\, b1^7\, b2^2\, c2^6$$
$$- 2160\, a1\, b1^7\, b2\, c1^6\, c2 - 51732\, a1\, b1^7\, b2\, c1^4\, c2^3 + 424440\, a1\, b1^7\, b2\, c1^2\, c2^5$$
$$- 20452\, a1\, b1^7\, b2\, c2^7 + 2160\, a1\, b1^7\, c1^6\, c2^2 + 864\, a1\, b1^7\, c1^4\, c2^4$$
$$+ 174528\, a1\, b1^7\, c1^2\, c2^6 - 89168\, a1\, b1^7\, c2^8 - 11664\, a1\, b1^6\, b2^6\, c1^3$$
$$- 52488\, a1\, b1^6\, b2^6\, c1\, c2^2 - 46656\, a1\, b1^6\, b2^5\, c1^3\, c2 + 157464\, a1\, b1^6\, b2^5\, c1\, c2^3$$
$$- 3888\, a1\, b1^6\, b2^4\, c1^5 + 761184\, a1\, b1^6\, b2^4\, c1^3\, c2^2 + 441504\, a1\, b1^6\, b2^4\, c1\, c2^4$$
$$+ 54648\, a1\, b1^6\, b2^3\, c1^5\, c2 + 227664\, a1\, b1^6\, b2^3\, c1^3\, c2^3 - 1145448\, a1\, b1^6\, b2^3\, c1\, c2^5$$
$$+ 2160\, a1\, b1^6\, b2^2\, c1^7 + 40500\, a1\, b1^6\, b2^2\, c1^5\, c2^2 - 362664\, a1\, b1^6\, b2^2\, c1^3\, c2^4$$
$$- 483884\, a1\, b1^6\, b2^2\, c1\, c2^6 - 2160\, a1\, b1^6\, b2\, c1^7\, c2 - 6588\, a1\, b1^6\, b2\, c1^5\, c2^3$$
$$- 776520\, a1\, b1^6\, b2\, c1^3\, c2^5 + 1082852\, a1\, b1^6\, b2\, c1\, c2^7 - 2160\, a1\, b1^6\, c1^7\, c2^2$$
$$- 10692\, a1\, b1^6\, c1^5\, c2^4 - 109080\, a1\, b1^6\, c1^3\, c2^6 - 100548\, a1\, b1^6\, c1\, c2^8$$
$$+ 52488\, a1\, b1^5\, b2^7\, c1^2\, c2 + 11664\, a1\, b1^5\, b2^7\, c2^3 + 26244\, a1\, b1^5\, b2^6\, c1^4$$
$$- 104976\, a1\, b1^5\, b2^6\, c1^2\, c2^2 - 49572\, a1\, b1^5\, b2^6\, c2^4 - 335016\, a1\, b1^5\, b2^5\, c1^4\, c2$$
$$- 1200096\, a1\, b1^5\, b2^5\, c1^2\, c2^3 + 23976\, a1\, b1^5\, b2^5\, c2^5 - 10692\, a1\, b1^5\, b2^4\, c1^6$$
$$- 735156\, a1\, b1^5\, b2^4\, c1^4\, c2^2 + 2206764\, a1\, b1^5\, b2^4\, c1^2\, c2^4 + 109836\, a1\, b1^5\, b2^4\, c2^6$$
$$- 6588\, a1\, b1^5\, b2^3\, c1^6\, c2 - 569376\, a1\, b1^5\, b2^3\, c1^4\, c2^3 + 2962788\, a1\, b1^5\, b2^3\, c1^2\, c2^5$$

$$- 267192\, a1\, b1^5\, b2^3\, c2^7 + 40500\, a1\, b1^5\, b2^2\, c1^6\, c2^2 + 1219212\, a1\, b1^5\, b2^2\, c1^4\, c2^4$$
$$- 4101972\, a1\, b1^5\, b2^2\, c1^2\, c2^6 + 284148\, a1\, b1^5\, b2^2\, c2^8 + 3240\, a1\, b1^5\, b2\, c1^8\, c2$$
$$+ 54648\, a1\, b1^5\, b2\, c1^6\, c2^3 + 491184\, a1\, b1^5\, b2\, c1^4\, c2^5 + 266328\, a1\, b1^5\, b2\, c1^2\, c2^7$$
$$- 173448\, a1\, b1^5\, b2\, c2^9 + 648\, a1\, b1^5\, c1^8\, c2^2 - 3888\, a1\, b1^5\, c1^6\, c2^4$$
$$+ 47952\, a1\, b1^5\, c1^4\, c2^6 + 110160\, a1\, b1^5\, c1^2\, c2^8 + 57672\, a1\, b1^5\, c2^{10}$$
$$- 17496\, a1\, b1^4\, b2^8\, c1^3 - 34992\, a1\, b1^4\, b2^8\, c1\, c2^2 - 17496\, a1\, b1^4\, b2^7\, c1^3\, c2$$
$$+ 139968\, a1\, b1^4\, b2^7\, c1\, c2^3 + 47952\, a1\, b1^4\, b2^6\, c1^5 + 1337904\, a1\, b1^4\, b2^6\, c1^3\, c2^2$$
$$+ 77328\, a1\, b1^4\, b2^6\, c1\, c2^4 + 491184\, a1\, b1^4\, b2^5\, c1^5\, c2 - 1733616\, a1\, b1^4\, b2^5\, c1^3\, c2^3$$
$$- 721872\, a1\, b1^4\, b2^5\, c1\, c2^5 + 864\, a1\, b1^4\, b2^4\, c1^7 + 1219212\, a1\, b1^4\, b2^4\, c1^5\, c2^2$$
$$- 6639088\, a1\, b1^4\, b2^4\, c1^3\, c2^4 + 1417284\, a1\, b1^4\, b2^4\, c1\, c2^6 - 51732\, a1\, b1^4\, b2^3\, c1^7\, c2$$
$$- 569376\, a1\, b1^4\, b2^3\, c1^5\, c2^3 + 7288924\, a1\, b1^4\, b2^3\, c1^3\, c2^5 - 1468152\, a1\, b1^4\, b2^3\, c1\, c2^7$$
$$- 1080\, a1\, b1^4\, b2^2\, c1^9 - 119232\, a1\, b1^4\, b2^2\, c1^7\, c2^2 - 735156\, a1\, b1^4\, b2^2\, c1^5\, c2^4$$
$$+ 295704\, a1\, b1^4\, b2^2\, c1^3\, c2^6 + 912708\, a1\, b1^4\, b2^2\, c1\, c2^8 - 1080\, a1\, b1^4\, b2\, c1^9\, c2$$
$$- 7992\, a1\, b1^4\, b2\, c1^7\, c2^3 - 335016\, a1\, b1^4\, b2\, c1^5\, c2^5 - 650376\, a1\, b1^4\, b2\, c1^3\, c2^7$$
$$- 322272\, a1\, b1^4\, b2\, c1\, c2^9 + 8748\, a1\, b1^4\, c1^7\, c2^4 + 26244\, a1\, b1^4\, c1^5\, c2^6$$
$$+ 26244\, a1\, b1^4\, c1^3\, c2^8 + 8748\, a1\, b1^4\, c1\, c2^{10} + 34992\, a1\, b1^3\, b2^9\, c1^2\, c2$$
$$+ 2916\, a1\, b1^3\, b2^9\, c2^3 + 26244\, a1\, b1^3\, b2^8\, c1^4 - 122472\, a1\, b1^3\, b2^8\, c1^2\, c2^2$$
$$- 14580\, a1\, b1^3\, b2^8\, c2^4 - 650376\, a1\, b1^3\, b2^7\, c1^4\, c2 - 436752\, a1\, b1^3\, b2^7\, c1^2\, c2^3$$
$$+ 28728\, a1\, b1^3\, b2^7\, c2^5 - 109080\, a1\, b1^3\, b2^6\, c1^6 + 295704\, a1\, b1^3\, b2^6\, c1^4\, c2^2$$
$$+ 1696248\, a1\, b1^3\, b2^6\, c1^2\, c2^4 - 27000\, a1\, b1^3\, b2^6\, c2^6 - 776520\, a1\, b1^3\, b2^5\, c1^6\, c2$$
$$+ 7288924\, a1\, b1^3\, b2^5\, c1^4\, c2^3 - 2965248\, a1\, b1^3\, b2^5\, c1^2\, c2^5 + 16092\, a1\, b1^3\, b2^5\, c2^7$$
$$+ 16956\, a1\, b1^3\, b2^4\, c1^8 - 362664\, a1\, b1^3\, b2^4\, c1^6\, c2^2 - 6639088\, a1\, b1^3\, b2^4\, c1^4\, c2^4$$
$$+ 2999160\, a1\, b1^3\, b2^4\, c1^2\, c2^6 - 16092\, a1\, b1^3\, b2^4\, c2^8 + 110808\, a1\, b1^3\, b2^3\, c1^8\, c2$$
$$+ 227664\, a1\, b1^3\, b2^3\, c1^6\, c2^3 - 1733616\, a1\, b1^3\, b2^3\, c1^4\, c2^5 - 1823472\, a1\, b1^3\, b2^3\, c1^2\, c2^7$$
$$+ 27000\, a1\, b1^3\, b2^3\, c2^9 + 432\, a1\, b1^3\, b2^2\, c1^{10} + 52488\, a1\, b1^3\, b2^2\, c1^8\, c2^2$$
$$+ 761184\, a1\, b1^3\, b2^2\, c1^6\, c2^4 + 1337904\, a1\, b1^3\, b2^2\, c1^4\, c2^6 + 600048\, a1\, b1^3\, b2^2\, c1^2\, c2^8$$
$$- 28728\, a1\, b1^3\, b2^2\, c2^{10} - 20412\, a1\, b1^3\, b2\, c1^8\, c2^3 - 46656\, a1\, b1^3\, b2\, c1^6\, c2^5$$
$$- 17496\, a1\, b1^3\, b2\, c1^4\, c2^7 + 23328\, a1\, b1^3\, b2\, c1^2\, c2^9 + 14580\, a1\, b1^3\, b2\, c2^{11}$$
$$- 2916\, a1\, b1^3\, c1^8\, c2^4 - 11664\, a1\, b1^3\, c1^6\, c2^6 - 17496\, a1\, b1^3\, c1^4\, c2^8$$
$$- 11664\, a1\, b1^3\, c1^2\, c2^{10} - 2916\, a1\, b1^3\, c2^{12} - 11664\, a1\, b1^2\, b2^{10}\, c1^3$$
$$- 8748\, a1\, b1^2\, b2^{10}\, c1\, c2^2 + 23328\, a1\, b1^2\, b2^9\, c1^3\, c2 + 43740\, a1\, b1^2\, b2^9\, c1\, c2^3$$
$$+ 110160\, a1\, b1^2\, b2^8\, c1^5 + 600048\, a1\, b1^2\, b2^8\, c1^3\, c2^2 - 87480\, a1\, b1^2\, b2^8\, c1\, c2^4$$
$$+ 266328\, a1\, b1^2\, b2^7\, c1^5\, c2 - 1823472\, a1\, b1^2\, b2^7\, c1^3\, c2^3 + 87480\, a1\, b1^2\, b2^7\, c1\, c2^5$$
$$+ 174528\, a1\, b1^2\, b2^6\, c1^7 - 4101972\, a1\, b1^2\, b2^6\, c1^5\, c2^2 + 2999160\, a1\, b1^2\, b2^6\, c1^3\, c2^4$$

$$- 61236\, a1\, b1^2\, b2^6\, c1\, c2^6 + 424440\, a1\, b1^2\, b2^5\, c1^7\, c2 + 2962788\, a1\, b1^2\, b2^5\, c1^5\, c2^3$$
$$- 2965248\, a1\, b1^2\, b2^5\, c1^3\, c2^5 + 61236\, a1\, b1^2\, b2^5\, c1\, c2^7 - 35532\, a1\, b1^2\, b2^4\, c1^9$$
$$+ 387504\, a1\, b1^2\, b2^4\, c1^7\, c2^2 + 2206764\, a1\, b1^2\, b2^4\, c1^5\, c2^4 + 1696248\, a1\, b1^2\, b2^4\, c1^3\, c2^6$$
$$- 87480\, a1\, b1^2\, b2^4\, c1\, c2^8 - 64152\, a1\, b1^2\, b2^3\, c1^9\, c2 - 740016\, a1\, b1^2\, b2^3\, c1^7\, c2^3$$
$$- 1200096\, a1\, b1^2\, b2^3\, c1^5\, c2^5 - 436752\, a1\, b1^2\, b2^3\, c1^3\, c2^7 + 87480\, a1\, b1^2\, b2^3\, c1\, c2^9$$
$$+ 8748\, a1\, b1^2\, b2^2\, c1^9\, c2^2 - 17496\, a1\, b1^2\, b2^2\, c1^7\, c2^4 - 104976\, a1\, b1^2\, b2^2\, c1^5\, c2^6$$
$$- 122472\, a1\, b1^2\, b2^2\, c1^3\, c2^8 - 43740\, a1\, b1^2\, b2^2\, c1\, c2^{10} + 8748\, a1\, b1^2\, b2\, c1^9\, c2^3$$
$$+ 34992\, a1\, b1^2\, b2\, c1^7\, c2^5 + 52488\, a1\, b1^2\, b2\, c1^5\, c2^7 + 34992\, a1\, b1^2\, b2\, c1^3\, c2^9$$
$$+ 8748\, a1\, b1^2\, b2\, c1\, c2^{11} + 8748\, a1\, b1\, b2^{11}\, c1^2\, c2 + 8748\, a1\, b1\, b2^{10}\, c1^4$$
$$- 43740\, a1\, b1\, b2^{10}\, c1^2\, c2^2 - 322272\, a1\, b1\, b2^9\, c1^4\, c2 + 87480\, a1\, b1\, b2^9\, c1^2\, c2^3$$
$$- 216\, a1\, b1\, b2^9\, c2^5 - 100548\, a1\, b1\, b2^8\, c1^6 + 912708\, a1\, b1\, b2^8\, c1^4\, c2^2$$
$$- 87480\, a1\, b1\, b2^8\, c1^2\, c2^4 + 1080\, a1\, b1\, b2^8\, c2^6 + 1082852\, a1\, b1\, b2^7\, c1^6\, c2$$
$$- 1468152\, a1\, b1\, b2^7\, c1^4\, c2^3 + 61236\, a1\, b1\, b2^7\, c1^2\, c2^5 - 2160\, a1\, b1\, b2^7\, c2^7$$
$$- 109620\, a1\, b1\, b2^6\, c1^8 - 483884\, a1\, b1\, b2^6\, c1^6\, c2^2 + 1417284\, a1\, b1\, b2^6\, c1^4\, c2^4$$
$$- 61236\, a1\, b1\, b2^6\, c1^2\, c2^6 + 2160\, a1\, b1\, b2^6\, c2^8 - 335016\, a1\, b1\, b2^5\, c1^8\, c2$$
$$- 1145448\, a1\, b1\, b2^5\, c1^6\, c2^3 - 721872\, a1\, b1\, b2^5\, c1^4\, c2^5 + 87480\, a1\, b1\, b2^5\, c1^2\, c2^7$$
$$- 1080\, a1\, b1\, b2^5\, c2^9 + 23544\, a1\, b1\, b2^4\, c1^{10} + 300024\, a1\, b1\, b2^4\, c1^8\, c2^2$$
$$+ 441504\, a1\, b1\, b2^4\, c1^6\, c2^4 + 77328\, a1\, b1\, b2^4\, c1^4\, c2^6 - 87480\, a1\, b1\, b2^4\, c1^2\, c2^8$$
$$+ 216\, a1\, b1\, b2^4\, c2^{10} + 8748\, a1\, b1\, b2^3\, c1^{10}\, c2 + 69984\, a1\, b1\, b2^3\, c1^8\, c2^3$$
$$+ 157464\, a1\, b1\, b2^3\, c1^6\, c2^5 + 139968\, a1\, b1\, b2^3\, c1^4\, c2^7 + 43740\, a1\, b1\, b2^3\, c1^2\, c2^9$$
$$- 8748\, a1\, b1\, b2^2\, c1^{10}\, c2^2 - 34992\, a1\, b1\, b2^2\, c1^8\, c2^4 - 52488\, a1\, b1\, b2^2\, c1^6\, c2^6$$
$$- 34992\, a1\, b1\, b2^2\, c1^4\, c2^8 - 8748\, a1\, b1\, b2^2\, c1^2\, c2^{10} - 2916\, a1\, b2^{12}\, c1^3$$
$$+ 14580\, a1\, b2^{11}\, c1^3\, c2 + 57672\, a1\, b2^{10}\, c1^5 - 28728\, a1\, b2^{10}\, c1^3\, c2^2$$
$$+ 216\, a1\, b2^{10}\, c1\, c2^4 - 173448\, a1\, b2^9\, c1^5\, c2 + 27000\, a1\, b2^9\, c1^3\, c2^3$$
$$- 1080\, a1\, b2^9\, c1\, c2^5 - 89168\, a1\, b2^8\, c1^7 + 284148\, a1\, b2^8\, c1^5\, c2^2$$
$$- 16092\, a1\, b2^8\, c1^3\, c2^4 + 2160\, a1\, b2^8\, c1\, c2^6 - 20452\, a1\, b2^7\, c1^7\, c2$$
$$- 267192\, a1\, b2^7\, c1^5\, c2^3 + 16092\, a1\, b2^7\, c1^3\, c2^5 - 2160\, a1\, b2^7\, c1\, c2^7$$
$$+ 72900\, a1\, b2^6\, c1^9 + 210816\, a1\, b2^6\, c1^7\, c2^2 + 109836\, a1\, b2^6\, c1^5\, c2^4$$
$$- 27000\, a1\, b2^6\, c1^3\, c2^6 + 1080\, a1\, b2^6\, c1\, c2^8 - 34128\, a1\, b2^5\, c1^9\, c2$$
$$- 39096\, a1\, b2^5\, c1^7\, c2^3 + 23976\, a1\, b2^5\, c1^5\, c2^5 + 28728\, a1\, b2^5\, c1^3\, c2^7$$
$$- 216\, a1\, b2^5\, c1\, c2^9 - 5832\, a1\, b2^4\, c1^{11} - 32076\, a1\, b2^4\, c1^9\, c2^2 - 61236\, a1\, b2^4\, c1^7\, c2^4$$
$$- 49572\, a1\, b2^4\, c1^5\, c2^6 - 14580\, a1\, b2^4\, c1^3\, c2^8 + 2916\, a1\, b2^3\, c1^{11}\, c2$$
$$+ 11664\, a1\, b2^3\, c1^9\, c2^3 + 17496\, a1\, b2^3\, c1^7\, c2^5 + 11664\, a1\, b2^3\, c1^5\, c2^7$$
$$+ 2916\, a1\, b2^3\, c1^3\, c2^9 + 729\, a2^{12}\, b1^4 - 2916\, a2^{12}\, b1^3\, c1 + 4374\, a2^{12}\, b1^2\, c1^2$$

$$- 2916\, a2^{12}\, b1\, c1^{3} + 729\, a2^{12}\, c1^{4} - 2916\, a2^{11}\, b1^{4}\, b2 - 5832\, a2^{11}\, b1^{4}\, c2$$
$$+ 14580\, a2^{11}\, b1^{3}\, b2\, c1 + 20412\, a2^{11}\, b1^{3}\, c1\, c2 - 26244\, a2^{11}\, b1^{2}\, b2\, c1^{2}$$
$$- 26244\, a2^{11}\, b1^{2}\, c1^{2}\, c2 + 20412\, a2^{11}\, b1\, b2\, c1^{3} + 14580\, a2^{11}\, b1\, c1^{3}\, c2$$
$$- 5832\, a2^{11}\, b2\, c1^{4} - 2916\, a2^{11}\, c1^{4}\, c2 - 9126\, a2^{10}\, b1^{6} + 57672\, a2^{10}\, b1^{5}\, c1$$
$$+ 4266\, a2^{10}\, b1^{4}\, b2^{2} + 23544\, a2^{10}\, b1^{4}\, b2\, c2 - 148554\, a2^{10}\, b1^{4}\, c1^{2} + 20304\, a2^{10}\, b1^{4}\, c2^{2}$$
$$- 28728\, a2^{10}\, b1^{3}\, b2^{2}\, c1 - 102924\, a2^{10}\, b1^{3}\, b2\, c1\, c2 + 200016\, a2^{10}\, b1^{3}\, c1^{3}$$
$$- 60804\, a2^{10}\, b1^{3}\, c1\, c2^{2} - 108\, a2^{10}\, b1^{2}\, b2^{4} + 432\, a2^{10}\, b1^{2}\, b2^{3}\, c2$$
$$+ 64962\, a2^{10}\, b1^{2}\, b2^{2}\, c1^{2} - 648\, a2^{10}\, b1^{2}\, b2^{2}\, c2^{2} + 158760\, a2^{10}\, b1^{2}\, b2\, c1^{2}\, c2$$
$$+ 432\, a2^{10}\, b1^{2}\, b2\, c2^{3} - 148554\, a2^{10}\, b1^{2}\, c1^{4} + 64962\, a2^{10}\, b1^{2}\, c1^{2}\, c2^{2}$$
$$- 108\, a2^{10}\, b1^{2}\, c2^{4} + 216\, a2^{10}\, b1\, b2^{4}\, c1 - 864\, a2^{10}\, b1\, b2^{3}\, c1\, c2$$
$$- 60804\, a2^{10}\, b1\, b2^{2}\, c1^{3} + 1296\, a2^{10}\, b1\, b2^{2}\, c1\, c2^{2} - 102924\, a2^{10}\, b1\, b2\, c1^{3}\, c2$$
$$- 864\, a2^{10}\, b1\, b2\, c1\, c2^{3} + 57672\, a2^{10}\, b1\, c1^{5} - 28728\, a2^{10}\, b1\, c1^{3}\, c2^{2}$$
$$+ 216\, a2^{10}\, b1\, c1\, c2^{4} - 108\, a2^{10}\, b2^{4}\, c1^{2} + 432\, a2^{10}\, b2^{3}\, c1^{2}\, c2 + 20304\, a2^{10}\, b2^{2}\, c1^{4}$$
$$- 648\, a2^{10}\, b2^{2}\, c1^{2}\, c2^{2} + 23544\, a2^{10}\, b2\, c1^{4}\, c2 + 432\, a2^{10}\, b2\, c1^{2}\, c2^{3} - 9126\, a2^{10}\, c1^{6}$$
$$+ 4266\, a2^{10}\, c1^{4}\, c2^{2} - 108\, a2^{10}\, c1^{2}\, c2^{4} + 18360\, a2^{9}\, b1^{6}\, b2 + 72900\, a2^{9}\, b1^{6}\, c2$$
$$- 173448\, a2^{9}\, b1^{5}\, b2\, c1 - 403272\, a2^{9}\, b1^{5}\, c1\, c2 - 2376\, a2^{9}\, b1^{4}\, b2^{3}$$
$$- 35532\, a2^{9}\, b1^{4}\, b2^{2}\, c2 + 594756\, a2^{9}\, b1^{4}\, b2\, c1^{2} - 82188\, a2^{9}\, b1^{4}\, b2\, c2^{2}$$
$$+ 890784\, a2^{9}\, b1^{4}\, c1^{2}\, c2 - 40284\, a2^{9}\, b1^{4}\, c2^{3} + 27000\, a2^{9}\, b1^{3}\, b2^{3}\, c1$$
$$+ 206280\, a2^{9}\, b1^{3}\, b2^{2}\, c1\, c2 - 1000080\, a2^{9}\, b1^{3}\, b2\, c1^{3} + 308340\, a2^{9}\, b1^{3}\, b2\, c1\, c2^{2}$$
$$- 1000080\, a2^{9}\, b1^{3}\, c1^{3}\, c2 + 99900\, a2^{9}\, b1^{3}\, c1\, c2^{3} + 432\, a2^{9}\, b1^{2}\, b2^{5}$$
$$- 1080\, a2^{9}\, b1^{2}\, b2^{4}\, c2 - 84240\, a2^{9}\, b1^{2}\, b2^{3}\, c1^{2} - 396900\, a2^{9}\, b1^{2}\, b2^{2}\, c1^{2}\, c2$$
$$+ 2160\, a2^{9}\, b1^{2}\, b2^{2}\, c2^{3} + 890784\, a2^{9}\, b1^{2}\, b2\, c1^{4} - 396900\, a2^{9}\, b1^{2}\, b2\, c1^{2}\, c2^{2}$$
$$- 2160\, a2^{9}\, b1^{2}\, b2\, c2^{4} + 594756\, a2^{9}\, b1^{2}\, c1^{4}\, c2 - 84240\, a2^{9}\, b1^{2}\, c1^{2}\, c2^{3}$$
$$+ 648\, a2^{9}\, b1^{2}\, c2^{5} - 1080\, a2^{9}\, b1\, b2^{5}\, c1 + 3240\, a2^{9}\, b1\, b2^{4}\, c1\, c2 + 99900\, a2^{9}\, b1\, b2^{3}\, c1^{3}$$
$$- 2160\, a2^{9}\, b1\, b2^{3}\, c1\, c2^{2} + 308340\, a2^{9}\, b1\, b2^{2}\, c1^{3}\, c2 - 2160\, a2^{9}\, b1\, b2^{2}\, c1\, c2^{3}$$
$$- 403272\, a2^{9}\, b1\, b2\, c1^{5} + 206280\, a2^{9}\, b1\, b2\, c1^{3}\, c2^{2} + 3240\, a2^{9}\, b1\, b2\, c1\, c2^{4}$$
$$- 173448\, a2^{9}\, b1\, c1^{5}\, c2 + 27000\, a2^{9}\, b1\, c1^{3}\, c2^{3} - 1080\, a2^{9}\, b1\, c1\, c2^{5} + 648\, a2^{9}\, b2^{5}\, c1^{2}$$
$$- 2160\, a2^{9}\, b2^{4}\, c1^{2}\, c2 - 40284\, a2^{9}\, b2^{3}\, c1^{4} + 2160\, a2^{9}\, b2^{3}\, c1^{2}\, c2^{2}$$
$$- 82188\, a2^{9}\, b2^{2}\, c1^{4}\, c2 + 72900\, a2^{9}\, b2\, c1^{6} - 35532\, a2^{9}\, b2\, c1^{4}\, c2^{2}$$
$$- 1080\, a2^{9}\, b2\, c1^{2}\, c2^{4} + 18360\, a2^{9}\, c1^{6}\, c2 - 2376\, a2^{9}\, c1^{4}\, c2^{3} + 432\, a2^{9}\, c1^{2}\, c2^{5}$$
$$+ 8851\, a2^{8}\, b1^{8} - 89168\, a2^{8}\, b1^{7}\, c1 - 27810\, a2^{8}\, b1^{6}\, b2^{2} - 109620\, a2^{8}\, b1^{6}\, b2\, c2$$
$$+ 362362\, a2^{8}\, b1^{6}\, c1^{2} - 273240\, a2^{8}\, b1^{6}\, c2^{2} + 284148\, a2^{8}\, b1^{5}\, b2^{2}\, c1$$
$$+ 992736\, a2^{8}\, b1^{5}\, b2\, c1\, c2 - 788552\, a2^{8}\, b1^{5}\, c1^{3} + 1318356\, a2^{8}\, b1^{5}\, c1\, c2^{2}$$
$$+ 1107\, a2^{8}\, b1^{4}\, b2^{4} + 16956\, a2^{8}\, b1^{4}\, b2^{3}\, c2 - 1166724\, a2^{8}\, b1^{4}\, b2^{2}\, c1^{2}$$

$$+ 134460\, a2^8\, b1^4\, b2^2\, c2^2 - 3019356\, a2^8\, b1^4\, b2\, c1^2\, c2 + 156924\, a2^8\, b1^4\, b2\, c2^3$$
$$+ 1013014\, a2^8\, b1^4\, c1^4 - 2498850\, a2^8\, b1^4\, c1^2\, c2^2 + 51408\, a2^8\, b1^4\, c2^4$$
$$- 16092\, a2^8\, b1^3\, b2^4\, c1 - 178632\, a2^8\, b1^3\, b2^3\, c1\, c2 + 2364120\, a2^8\, b1^3\, b2^2\, c1^3$$
$$- 660312\, a2^8\, b1^3\, b2^2\, c1\, c2^2 + 4272480\, a2^8\, b1^3\, b2\, c1^3\, c2 - 484812\, a2^8\, b1^3\, b2\, c1\, c2^3$$
$$- 788552\, a2^8\, b1^3\, c1^5 + 2364120\, a2^8\, b1^3\, c1^3\, c2^2 - 103572\, a2^8\, b1^3\, c1\, c2^4$$
$$- 648\, a2^8\, b1^2\, b2^6 + 67878\, a2^8\, b1^2\, b2^4\, c1^2 + 4860\, a2^8\, b1^2\, b2^4\, c2^2$$
$$+ 486648\, a2^8\, b1^2\, b2^3\, c1^2\, c2 - 6480\, a2^8\, b1^2\, b2^3\, c2^3 - 2498850\, a2^8\, b1^2\, b2^2\, c1^4$$
$$+ 1056078\, a2^8\, b1^2\, b2^2\, c1^2\, c2^2 - 3019356\, a2^8\, b1^2\, b2\, c1^4\, c2 + 486648\, a2^8\, b1^2\, b2\, c1^2\, c2^3$$
$$+ 3888\, a2^8\, b1^2\, b2\, c2^5 + 362362\, a2^8\, b1^2\, c1^6 - 1166724\, a2^8\, b1^2\, c1^4\, c2^2$$
$$+ 67878\, a2^8\, b1^2\, c1^2\, c2^4 - 1620\, a2^8\, b1^2\, c2^6 + 2160\, a2^8\, b1\, b2^6\, c1$$
$$- 3240\, a2^8\, b1\, b2^5\, c1\, c2 - 103572\, a2^8\, b1\, b2^4\, c1^3 - 6480\, a2^8\, b1\, b2^4\, c1\, c2^2$$
$$- 484812\, a2^8\, b1\, b2^3\, c1^3\, c2 + 15120\, a2^8\, b1\, b2^3\, c1\, c2^3 + 1318356\, a2^8\, b1\, b2^2\, c1^5$$
$$- 660312\, a2^8\, b1\, b2^2\, c1^3\, c2^2 - 6480\, a2^8\, b1\, b2^2\, c1\, c2^4 + 992736\, a2^8\, b1\, b2\, c1^5\, c2$$
$$- 178632\, a2^8\, b1\, b2\, c1^3\, c2^3 - 3240\, a2^8\, b1\, b2\, c1\, c2^5 - 89168\, a2^8\, b1\, c1^7$$
$$+ 284148\, a2^8\, b1\, c1^5\, c2^2 - 16092\, a2^8\, b1\, c1^3\, c2^4 + 2160\, a2^8\, b1\, c1\, c2^6$$
$$- 1620\, a2^8\, b2^6\, c1^2 + 3888\, a2^8\, b2^5\, c1^2\, c2 + 51408\, a2^8\, b2^4\, c1^4 + 156924\, a2^8\, b2^3\, c1^4\, c2$$
$$- 6480\, a2^8\, b2^3\, c1^2\, c2^3 - 273240\, a2^8\, b2^2\, c1^6 + 134460\, a2^8\, b2^2\, c1^4\, c2^2$$
$$+ 4860\, a2^8\, b2^2\, c1^2\, c2^4 - 109620\, a2^8\, b2\, c1^6\, c2 + 16956\, a2^8\, b2\, c1^4\, c2^3 + 8851\, a2^8\, c1^8$$
$$- 27810\, a2^8\, c1^6\, c2^2 + 1107\, a2^8\, c1^4\, c2^4 - 648\, a2^8\, c1^2\, c2^6 + 18360\, a2^7\, b1^8\, b2$$
$$- 89168\, a2^7\, b1^8\, c2 - 20452\, a2^7\, b1^7\, b2\, c1 + 733796\, a2^7\, b1^7\, c1\, c2 + 15984\, a2^7\, b1^6\, b2^3$$
$$+ 174528\, a2^7\, b1^6\, b2^2\, c2 - 469844\, a2^7\, b1^6\, b2\, c1^2 + 263952\, a2^7\, b1^6\, b2\, c2^2$$
$$- 2429052\, a2^7\, b1^6\, c1^2\, c2 + 640656\, a2^7\, b1^6\, c2^3 - 267192\, a2^7\, b1^5\, b2^3\, c1$$
$$- 1471608\, a2^7\, b1^5\, b2^2\, c1\, c2 + 2111316\, a2^7\, b1^5\, b2\, c1^3 - 2499336\, a2^7\, b1^5\, b2\, c1\, c2^2$$
$$+ 4197100\, a2^7\, b1^5\, c1^3\, c2 - 2682504\, a2^7\, b1^5\, c1\, c2^3 - 1944\, a2^7\, b1^4\, b2^5$$
$$+ 864\, a2^7\, b1^4\, b2^4\, c2 + 1402056\, a2^7\, b1^4\, b2^3\, c1^2 - 69552\, a2^7\, b1^4\, b2^3\, c2^2$$
$$+ 5127624\, a2^7\, b1^4\, b2^2\, c1^2\, c2 - 289008\, a2^7\, b1^4\, b2^2\, c2^3 - 4052056\, a2^7\, b1^4\, b2\, c1^4$$
$$+ 6949800\, a2^7\, b1^4\, b2\, c1^2\, c2^2 - 169344\, a2^7\, b1^4\, b2\, c2^4 - 4052056\, a2^7\, b1^4\, c1^4\, c2$$
$$+ 4347000\, a2^7\, b1^4\, c1^2\, c2^3 - 48384\, a2^7\, b1^4\, c2^5 + 16092\, a2^7\, b1^3\, b2^5\, c1$$
$$+ 48276\, a2^7\, b1^3\, b2^4\, c1\, c2 - 3456000\, a2^7\, b1^3\, b2^3\, c1^3 + 617976\, a2^7\, b1^3\, b2^3\, c1\, c2^2$$
$$- 8544960\, a2^7\, b1^3\, b2^2\, c1^3\, c2 + 1142856\, a2^7\, b1^3\, b2^2\, c1\, c2^3 + 4197100\, a2^7\, b1^3\, b2\, c1^5$$
$$- 8544960\, a2^7\, b1^3\, b2\, c1^3\, c2^2 + 398196\, a2^7\, b1^3\, b2\, c1\, c2^4 + 2111316\, a2^7\, b1^3\, c1^5\, c2$$
$$- 3456000\, a2^7\, b1^3\, c1^3\, c2^3 + 86076\, a2^7\, b1^3\, c1\, c2^5 + 432\, a2^7\, b1^2\, b2^7$$
$$+ 2160\, a2^7\, b1^2\, b2^6\, c2 - 54756\, a2^7\, b1^2\, b2^5\, c1^2 - 6480\, a2^7\, b1^2\, b2^5\, c2^2$$
$$- 269244\, a2^7\, b1^2\, b2^4\, c1^2\, c2 - 2160\, a2^7\, b1^2\, b2^4\, c2^3 + 4347000\, a2^7\, b1^2\, b2^3\, c1^4$$

$$- 1408104\, a2^7\, b1^2\, b2^3\, c1^2\, c2^2 + 15120\, a2^7\, b1^2\, b2^3\, c2^4 + 6949800\, a2^7\, b1^2\, b2^2\, c1^4\, c2$$
$$- 1408104\, a2^7\, b1^2\, b2^2\, c1^2\, c2^3 - 9072\, a2^7\, b1^2\, b2^2\, c2^5 - 2429052\, a2^7\, b1^2\, b2\, c1^6$$
$$+ 5127624\, a2^7\, b1^2\, b2\, c1^4\, c2^2 - 269244\, a2^7\, b1^2\, b2\, c1^2\, c2^4 - 2160\, a2^7\, b1^2\, b2\, c2^6$$
$$- 469844\, a2^7\, b1^2\, c1^6\, c2 + 1402056\, a2^7\, b1^2\, c1^4\, c2^3 - 54756\, a2^7\, b1^2\, c1^2\, c2^5$$
$$+ 2160\, a2^7\, b1^2\, c2^7 - 2160\, a2^7\, b1\, b2^7\, c1 - 2160\, a2^7\, b1\, b2^6\, c1\, c2$$
$$+ 86076\, a2^7\, b1\, b2^5\, c1^3 + 19440\, a2^7\, b1\, b2^5\, c1\, c2^2 + 398196\, a2^7\, b1\, b2^4\, c1^3\, c2$$
$$- 15120\, a2^7\, b1\, b2^4\, c1\, c2^3 - 2682504\, a2^7\, b1\, b2^3\, c1^5 + 1142856\, a2^7\, b1\, b2^3\, c1^3\, c2^2$$
$$- 15120\, a2^7\, b1\, b2^3\, c1\, c2^4 - 2499336\, a2^7\, b1\, b2^2\, c1^5\, c2 + 617976\, a2^7\, b1\, b2^2\, c1^3\, c2^3$$
$$+ 19440\, a2^7\, b1\, b2^2\, c1\, c2^5 + 733796\, a2^7\, b1\, b2\, c1^7 - 1471608\, a2^7\, b1\, b2\, c1^5\, c2^2$$
$$+ 48276\, a2^7\, b1\, b2\, c1^3\, c2^4 - 2160\, a2^7\, b1\, b2\, c1\, c2^6 - 20452\, a2^7\, b1\, c1^7\, c2$$
$$- 267192\, a2^7\, b1\, c1^5\, c2^3 + 16092\, a2^7\, b1\, c1^3\, c2^5 - 2160\, a2^7\, b1\, c1\, c2^7$$
$$+ 2160\, a2^7\, b2^7\, c1^2 - 2160\, a2^7\, b2^6\, c1^2\, c2 - 48384\, a2^7\, b2^5\, c1^4 - 9072\, a2^7\, b2^5\, c1^2\, c2^2$$
$$- 169344\, a2^7\, b2^4\, c1^4\, c2 + 15120\, a2^7\, b2^4\, c1^2\, c2^3 + 640656\, a2^7\, b2^3\, c1^6$$
$$- 289008\, a2^7\, b2^3\, c1^4\, c2^2 - 2160\, a2^7\, b2^3\, c1^2\, c2^4 + 263952\, a2^7\, b2^2\, c1^6\, c2$$
$$- 69552\, a2^7\, b2^2\, c1^4\, c2^3 - 6480\, a2^7\, b2^2\, c1^2\, c2^5 - 89168\, a2^7\, b2\, c1^8$$
$$+ 174528\, a2^7\, b2\, c1^6\, c2^2 + 864\, a2^7\, b2\, c1^4\, c2^4 + 2160\, a2^7\, b2\, c1^2\, c2^6 + 18360\, a2^7\, c1^8\, c2$$
$$+ 15984\, a2^7\, c1^6\, c2^3 - 1944\, a2^7\, c1^4\, c2^5 + 432\, a2^7\, c1^2\, c2^7 - 9126\, a2^6\, b1^{10}$$
$$+ 72900\, a2^6\, b1^9\, c1 - 13986\, a2^6\, b1^8\, b2^2 - 100548\, a2^6\, b1^8\, b2\, c2 - 273240\, a2^6\, b1^8\, c1^2$$
$$+ 362362\, a2^6\, b1^8\, c2^2 + 210816\, a2^6\, b1^7\, b2^2\, c1 - 278468\, a2^6\, b1^7\, b2\, c1\, c2$$
$$+ 640656\, a2^6\, b1^7\, c1^3 - 2429052\, a2^6\, b1^7\, c1\, c2^2 - 702\, a2^6\, b1^6\, b2^4$$
$$- 109080\, a2^6\, b1^6\, b2^3\, c2 - 495914\, a2^6\, b1^6\, b2^2\, c1^2 - 447228\, a2^6\, b1^6\, b2^2\, c2^2$$
$$+ 4280736\, a2^6\, b1^6\, b2\, c1^2\, c2 - 317736\, a2^6\, b1^6\, b2\, c2^3 - 1041714\, a2^6\, b1^6\, c1^4$$
$$+ 6361314\, a2^6\, b1^6\, c1^2\, c2^2 - 1041714\, a2^6\, b1^6\, c2^4 + 109836\, a2^6\, b1^5\, b2^4\, c1$$
$$+ 1431000\, a2^6\, b1^5\, b2^3\, c1\, c2 - 859380\, a2^6\, b1^5\, b2^2\, c1^3 + 3004128\, a2^6\, b1^5\, b2^2\, c1\, c2^2$$
$$- 13060452\, a2^6\, b1^5\, b2\, c1^3\, c2 + 3829032\, a2^6\, b1^5\, b2\, c1\, c2^3 + 1221048\, a2^6\, b1^5\, c1^5$$
$$- 8159624\, a2^6\, b1^5\, c1^3\, c2^2 + 3737124\, a2^6\, b1^5\, c1\, c2^4 + 4050\, a2^6\, b1^4\, b2^6$$
$$- 10692\, a2^6\, b1^4\, b2^5\, c2 - 983232\, a2^6\, b1^4\, b2^4\, c1^2 + 23706\, a2^6\, b1^4\, b2^4\, c2^2$$
$$- 5881464\, a2^6\, b1^4\, b2^3\, c1^2\, c2 + 130680\, a2^6\, b1^4\, b2^3\, c2^3 + 5023464\, a2^6\, b1^4\, b2^2\, c1^4$$
$$- 9124488\, a2^6\, b1^4\, b2^2\, c1^2\, c2^2 + 407754\, a2^6\, b1^4\, b2^2\, c2^4 + 18317464\, a2^6\, b1^4\, b2\, c1^4\, c2$$
$$- 10133208\, a2^6\, b1^4\, b2\, c1^2\, c2^3 + 73980\, a2^6\, b1^4\, b2\, c2^5 - 1041714\, a2^6\, b1^4\, c1^6$$
$$+ 5023464\, a2^6\, b1^4\, c1^4\, c2^2 - 5073948\, a2^6\, b1^4\, c1^2\, c2^4 + 44118\, a2^6\, b1^4\, c2^6$$
$$- 27000\, a2^6\, b1^3\, b2^6\, c1 + 49356\, a2^6\, b1^3\, b2^5\, c1\, c2 + 3255552\, a2^6\, b1^3\, b2^4\, c1^3$$
$$- 292356\, a2^6\, b1^3\, b2^4\, c1\, c2^2 + 11169792\, a2^6\, b1^3\, b2^3\, c1^3\, c2$$
$$- 1052136\, a2^6\, b1^3\, b2^3\, c1\, c2^3 - 8159624\, a2^6\, b1^3\, b2^2\, c1^5 + 13152672\, a2^6\, b1^3\, b2^2\, c1^3\, c2^2$$

$$- 1210896\, a2^6\, b1^3\, b2^2\, c1\, c2^4 - 13060452\, a2^6\, b1^3\, b2\, c1^5\, c2$$
$$+ 11169792\, a2^6\, b1^3\, b2\, c1^3\, c2^3 - 73116\, a2^6\, b1^3\, b2\, c1\, c2^5 + 640656\, a2^6\, b1^3\, c1^7$$
$$- 859380\, a2^6\, b1^3\, c1^5\, c2^2 + 3255552\, a2^6\, b1^3\, c1^3\, c2^4 - 88236\, a2^6\, b1^3\, c1\, c2^6$$
$$- 108\, a2^6\, b1^2\, b2^8 - 2160\, a2^6\, b1^2\, b2^7\, c2 + 71118\, a2^6\, b1^2\, b2^6\, c1^2$$
$$- 43416\, a2^6\, b1^2\, b2^5\, c1^2\, c2 + 15120\, a2^6\, b1^2\, b2^5\, c2^3 - 5073948\, a2^6\, b1^2\, b2^4\, c1^4$$
$$+ 1050894\, a2^6\, b1^2\, b2^4\, c1^2\, c2^2 - 15120\, a2^6\, b1^2\, b2^4\, c2^4 - 10133208\, a2^6\, b1^2\, b2^3\, c1^4\, c2$$
$$+ 1884384\, a2^6\, b1^2\, b2^3\, c1^2\, c2^3 - 9072\, a2^6\, b1^2\, b2^3\, c2^5 + 6361314\, a2^6\, b1^2\, b2^2\, c1^6$$
$$- 9124488\, a2^6\, b1^2\, b2^2\, c1^4\, c2^2 + 1050894\, a2^6\, b1^2\, b2^2\, c1^2\, c2^4 + 15120\, a2^6\, b1^2\, b2^2\, c2^6$$
$$+ 4280736\, a2^6\, b1^2\, b2\, c1^6\, c2 - 5881464\, a2^6\, b1^2\, b2\, c1^4\, c2^3 - 43416\, a2^6\, b1^2\, b2\, c1^2\, c2^5$$
$$- 2160\, a2^6\, b1^2\, b2\, c2^7 - 273240\, a2^6\, b1^2\, c1^8 - 495914\, a2^6\, b1^2\, c1^6\, c2^2$$
$$- 983232\, a2^6\, b1^2\, c1^4\, c2^4 + 71118\, a2^6\, b1^2\, c1^2\, c2^6 - 1620\, a2^6\, b1^2\, c2^8$$
$$+ 1080\, a2^6\, b1\, b2^8\, c1 + 6480\, a2^6\, b1\, b2^7\, c1\, c2 - 88236\, a2^6\, b1\, b2^6\, c1^3$$
$$- 15120\, a2^6\, b1\, b2^6\, c1\, c2^2 - 73116\, a2^6\, b1\, b2^5\, c1^3\, c2 - 15120\, a2^6\, b1\, b2^5\, c1\, c2^3$$
$$+ 3737124\, a2^6\, b1\, b2^4\, c1^5 - 1210896\, a2^6\, b1\, b2^4\, c1^3\, c2^2 + 45360\, a2^6\, b1\, b2^4\, c1\, c2^4$$
$$+ 3829032\, a2^6\, b1\, b2^3\, c1^5\, c2 - 1052136\, a2^6\, b1\, b2^3\, c1^3\, c2^3 - 15120\, a2^6\, b1\, b2^3\, c1\, c2^5$$
$$- 2429052\, a2^6\, b1\, b2^2\, c1^7 + 3004128\, a2^6\, b1\, b2^2\, c1^5\, c2^2 - 292356\, a2^6\, b1\, b2^2\, c1^3\, c2^4$$
$$- 15120\, a2^6\, b1\, b2^2\, c1\, c2^6 - 278468\, a2^6\, b1\, b2\, c1^7\, c2 + 1431000\, a2^6\, b1\, b2\, c1^5\, c2^3$$
$$+ 49356\, a2^6\, b1\, b2\, c1^3\, c2^5 + 6480\, a2^6\, b1\, b2\, c1\, c2^7 + 72900\, a2^6\, b1\, c1^9$$
$$+ 210816\, a2^6\, b1\, c1^7\, c2^2 + 109836\, a2^6\, b1\, c1^5\, c2^4 - 27000\, a2^6\, b1\, c1^3\, c2^6$$
$$+ 1080\, a2^6\, b1\, c1\, c2^8 - 1620\, a2^6\, b2^8\, c1^2 - 2160\, a2^6\, b2^7\, c1^2\, c2 + 44118\, a2^6\, b2^6\, c1^4$$
$$+ 15120\, a2^6\, b2^6\, c1^2\, c2^2 + 73980\, a2^6\, b2^5\, c1^4\, c2 - 9072\, a2^6\, b2^5\, c1^2\, c2^3$$
$$- 1041714\, a2^6\, b2^4\, c1^6 + 407754\, a2^6\, b2^4\, c1^4\, c2^2 - 15120\, a2^6\, b2^4\, c1^2\, c2^4$$
$$- 317736\, a2^6\, b2^3\, c1^6\, c2 + 130680\, a2^6\, b2^3\, c1^4\, c2^3 + 15120\, a2^6\, b2^3\, c1^2\, c2^5$$
$$+ 362362\, a2^6\, b2^2\, c1^8 - 447228\, a2^6\, b2^2\, c1^6\, c2^2 + 23706\, a2^6\, b2^2\, c1^4\, c2^4$$
$$- 100548\, a2^6\, b2\, c1^8\, c2 - 109080\, a2^6\, b2\, c1^6\, c2^3 - 10692\, a2^6\, b2\, c1^4\, c2^5$$
$$- 2160\, a2^6\, b2\, c1^2\, c2^7 - 9126\, a2^6\, c1^{10} - 13986\, a2^6\, c1^8\, c2^2 - 702\, a2^6\, c1^6\, c2^4$$
$$+ 4050\, a2^6\, c1^4\, c2^6 - 108\, a2^6\, c1^2\, c2^8 - 2916\, a2^5\, b1^{10}\, b2 + 57672\, a2^5\, b1^{10}\, c2$$
$$- 34128\, a2^5\, b1^9\, b2\, c1 - 403272\, a2^5\, b1^9\, c1\, c2 - 8748\, a2^5\, b1^8\, b2^3$$
$$+ 110160\, a2^5\, b1^8\, b2^2\, c2 + 321084\, a2^5\, b1^8\, b2\, c1^2 + 191484\, a2^5\, b1^8\, b2\, c2^2$$
$$+ 1318356\, a2^5\, b1^8\, c1^2\, c2 - 788552\, a2^5\, b1^8\, c2^3 - 39096\, a2^5\, b1^7\, b2^3\, c1$$
$$- 1147608\, a2^5\, b1^7\, b2^2\, c1\, c2 - 1161432\, a2^5\, b1^7\, b2\, c1^3 + 1983012\, a2^5\, b1^7\, b2\, c1\, c2^2$$
$$- 2682504\, a2^5\, b1^7\, c1^3\, c2 + 4197100\, a2^5\, b1^7\, c1\, c2^3 - 8748\, a2^5\, b1^6\, b2^5$$
$$+ 47952\, a2^5\, b1^6\, b2^4\, c2 + 709560\, a2^5\, b1^6\, b2^3\, c1^2 + 231336\, a2^5\, b1^6\, b2^3\, c2^2$$
$$+ 846804\, a2^5\, b1^6\, b2^2\, c1^2\, c2 + 663120\, a2^5\, b1^6\, b2^2\, c2^3 + 2513160\, a2^5\, b1^6\, b2\, c1^4$$

$$- 13689012\, a2^5\, b1^6\, b2\, c1^2\, c2^2 + 145044\, a2^5\, b1^6\, b2\, c2^4 + 3737124\, a2^5\, b1^6\, c1^4\, c2$$
$$- 8159624\, a2^5\, b1^6\, c1^2\, c2^3 + 1221048\, a2^5\, b1^6\, c2^5 + 23976\, a2^5\, b1^5\, b2^5\, c1$$
$$- 778896\, a2^5\, b1^5\, b2^4\, c1\, c2 - 1576972\, a2^5\, b1^5\, b2^3\, c1^3 - 2735208\, a2^5\, b1^5\, b2^3\, c1\, c2^2$$
$$+ 9887196\, a2^5\, b1^5\, b2^2\, c1^3\, c2 - 3273048\, a2^5\, b1^5\, b2^2\, c1\, c2^3 - 3663144\, a2^5\, b1^5\, b2\, c1^5$$
$$+ 29294160\, a2^5\, b1^5\, b2\, c1^3\, c2^2 - 4107024\, a2^5\, b1^5\, b2\, c1\, c2^4 - 3663144\, a2^5\, b1^5\, c1^5\, c2$$
$$+ 6554528\, a2^5\, b1^5\, c1^3\, c2^3 - 3663144\, a2^5\, b1^5\, c1\, c2^5 - 2916\, a2^5\, b1^4\, b2^7$$
$$- 3888\, a2^5\, b1^4\, b2^6\, c2 + 300996\, a2^5\, b1^4\, b2^5\, c1^2 + 43740\, a2^5\, b1^4\, b2^5\, c2^2$$
$$+ 4394412\, a2^5\, b1^4\, b2^4\, c1^2\, c2 - 120312\, a2^5\, b1^4\, b2^4\, c2^3 - 888196\, a2^5\, b1^4\, b2^3\, c1^4$$
$$+ 8855568\, a2^5\, b1^4\, b2^3\, c1^2\, c2^2 - 75708\, a2^5\, b1^4\, b2^3\, c2^4 - 27476196\, a2^5\, b1^4\, b2^2\, c1^4\, c2$$
$$+ 9393408\, a2^5\, b1^4\, b2^2\, c1^2\, c2^3 - 443880\, a2^5\, b1^4\, b2^2\, c2^5 + 3737124\, a2^5\, b1^4\, b2\, c1^6$$
$$- 27476196\, a2^5\, b1^4\, b2\, c1^4\, c2^2 + 10503108\, a2^5\, b1^4\, b2\, c1^2\, c2^4 + 73980\, a2^5\, b1^4\, b2\, c2^6$$
$$+ 2513160\, a2^5\, b1^4\, c1^6\, c2 - 888196\, a2^5\, b1^4\, c1^4\, c2^3 + 3988116\, a2^5\, b1^4\, c1^2\, c2^5$$
$$- 48384\, a2^5\, b1^4\, c2^7 + 28728\, a2^5\, b1^3\, b2^7\, c1 - 39096\, a2^5\, b1^3\, b2^6\, c1\, c2$$
$$- 1870992\, a2^5\, b1^3\, b2^5\, c1^3 - 30780\, a2^5\, b1^3\, b2^5\, c1\, c2^2 - 10178352\, a2^5\, b1^3\, b2^4\, c1^3\, c2$$
$$+ 636012\, a2^5\, b1^3\, b2^4\, c1\, c2^3 + 6554528\, a2^5\, b1^3\, b2^3\, c1^5 - 13152672\, a2^5\, b1^3\, b2^3\, c1^3\, c2^2$$
$$+ 942192\, a2^5\, b1^3\, b2^3\, c1\, c2^4 + 29294160\, a2^5\, b1^3\, b2^2\, c1^5\, c2$$
$$- 13152672\, a2^5\, b1^3\, b2^2\, c1^3\, c2^3 + 887760\, a2^5\, b1^3\, b2^2\, c1\, c2^5 - 2682504\, a2^5\, b1^3\, b2\, c1^7$$
$$+ 9887196\, a2^5\, b1^3\, b2\, c1^5\, c2^2 - 10178352\, a2^5\, b1^3\, b2\, c1^3\, c2^4 - 222804\, a2^5\, b1^3\, b2\, c1\, c2^6$$
$$- 1161432\, a2^5\, b1^3\, c1^7\, c2 - 1576972\, a2^5\, b1^3\, c1^5\, c2^3 - 1870992\, a2^5\, b1^3\, c1^3\, c2^5$$
$$+ 107460\, a2^5\, b1^3\, c1\, c2^7 + 648\, a2^5\, b1^2\, b2^8\, c2 - 86832\, a2^5\, b1^2\, b2^7\, c1^2$$
$$+ 3888\, a2^5\, b1^2\, b2^7\, c2^2 + 181116\, a2^5\, b1^2\, b2^6\, c1^2\, c2 - 9072\, a2^5\, b1^2\, b2^6\, c2^3$$
$$+ 3988116\, a2^5\, b1^2\, b2^5\, c1^4 - 413100\, a2^5\, b1^2\, b2^5\, c1^2\, c2^2 - 9072\, a2^5\, b1^2\, b2^5\, c2^4$$
$$+ 10503108\, a2^5\, b1^2\, b2^4\, c1^4\, c2 - 1413288\, a2^5\, b1^2\, b2^4\, c1^2\, c2^3 + 27216\, a2^5\, b1^2\, b2^4\, c2^5$$
$$- 8159624\, a2^5\, b1^2\, b2^3\, c1^6 + 9393408\, a2^5\, b1^2\, b2^3\, c1^4\, c2^2 - 1413288\, a2^5\, b1^2\, b2^3\, c1^2\, c2^4$$
$$- 9072\, a2^5\, b1^2\, b2^3\, c2^6 - 13689012\, a2^5\, b1^2\, b2^2\, c1^6\, c2 + 8855568\, a2^5\, b1^2\, b2^2\, c1^4\, c2^3$$
$$- 413100\, a2^5\, b1^2\, b2^2\, c1^2\, c2^5 - 9072\, a2^5\, b1^2\, b2^2\, c2^7 + 1318356\, a2^5\, b1^2\, b2\, c1^8$$
$$+ 846804\, a2^5\, b1^2\, b2\, c1^6\, c2^2 + 4394412\, a2^5\, b1^2\, b2\, c1^4\, c2^4 + 181116\, a2^5\, b1^2\, b2\, c1^2\, c2^6$$
$$+ 3888\, a2^5\, b1^2\, b2\, c2^8 + 321084\, a2^5\, b1^2\, c1^8\, c2 + 709560\, a2^5\, b1^2\, c1^6\, c2^3$$
$$+ 300996\, a2^5\, b1^2\, c1^4\, c2^5 - 86832\, a2^5\, b1^2\, c1^2\, c2^7 + 648\, a2^5\, b1^2\, c2^9 - 216\, a2^5\, b1\, b2^9\, c1$$
$$- 4536\, a2^5\, b1\, b2^8\, c1\, c2 + 107460\, a2^5\, b1\, b2^7\, c1^3 - 1296\, a2^5\, b1\, b2^7\, c1\, c2^2$$
$$- 222804\, a2^5\, b1\, b2^6\, c1^3\, c2 + 33264\, a2^5\, b1\, b2^6\, c1\, c2^3 - 3663144\, a2^5\, b1\, b2^5\, c1^5$$
$$+ 887760\, a2^5\, b1\, b2^5\, c1^3\, c2^2 - 27216\, a2^5\, b1\, b2^5\, c1\, c2^4 - 4107024\, a2^5\, b1\, b2^4\, c1^5\, c2$$
$$+ 942192\, a2^5\, b1\, b2^4\, c1^3\, c2^3 - 27216\, a2^5\, b1\, b2^4\, c1\, c2^5 + 4197100\, a2^5\, b1\, b2^3\, c1^7$$
$$- 3273048\, a2^5\, b1\, b2^3\, c1^5\, c2^2 + 636012\, a2^5\, b1\, b2^3\, c1^3\, c2^4 + 33264\, a2^5\, b1\, b2^3\, c1\, c2^6$$

$$+ 1983012\, a2^5\, b1\, b2^2\, c1^7\, c2 - 2735208\, a2^5\, b1\, b2^2\, c1^5\, c2^3 - 30780\, a2^5\, b1\, b2^2\, c1^3\, c2^5$$
$$- 1296\, a2^5\, b1\, b2^2\, c1\, c2^7 - 403272\, a2^5\, b1\, b2\, c1^9 - 1147608\, a2^5\, b1\, b2\, c1^7\, c2^2$$
$$- 778896\, a2^5\, b1\, b2\, c1^5\, c2^4 - 39096\, a2^5\, b1\, b2\, c1^3\, c2^6 - 4536\, a2^5\, b1\, b2\, c1\, c2^8$$
$$- 34128\, a2^5\, b1\, c1^9\, c2 - 39096\, a2^5\, b1\, c1^7\, c2^3 + 23976\, a2^5\, b1\, c1^5\, c2^5$$
$$+ 28728\, a2^5\, b1\, c1^3\, c2^7 - 216\, a2^5\, b1\, c1\, c2^9 + 648\, a2^5\, b2^9\, c1^2 + 3888\, a2^5\, b2^8\, c1^2\, c2$$
$$- 48384\, a2^5\, b2^7\, c1^4 - 9072\, a2^5\, b2^7\, c1^2\, c2^2 + 73980\, a2^5\, b2^6\, c1^4\, c2$$
$$- 9072\, a2^5\, b2^6\, c1^2\, c2^3 + 1221048\, a2^5\, b2^5\, c1^6 - 443880\, a2^5\, b2^5\, c1^4\, c2^2$$
$$+ 27216\, a2^5\, b2^5\, c1^2\, c2^4 + 145044\, a2^5\, b2^4\, c1^6\, c2 - 75708\, a2^5\, b2^4\, c1^4\, c2^3$$
$$- 9072\, a2^5\, b2^4\, c1^2\, c2^5 - 788552\, a2^5\, b2^3\, c1^8 + 663120\, a2^5\, b2^3\, c1^6\, c2^2$$
$$- 120312\, a2^5\, b2^3\, c1^4\, c2^4 - 9072\, a2^5\, b2^3\, c1^2\, c2^6 + 191484\, a2^5\, b2^2\, c1^8\, c2$$
$$+ 231336\, a2^5\, b2^2\, c1^6\, c2^3 + 43740\, a2^5\, b2^2\, c1^4\, c2^5 + 3888\, a2^5\, b2^2\, c1^2\, c2^7$$
$$+ 57672\, a2^5\, b2\, c1^{10} + 110160\, a2^5\, b2\, c1^8\, c2^2 + 47952\, a2^5\, b2\, c1^6\, c2^4$$
$$- 3888\, a2^5\, b2\, c1^4\, c2^6 + 648\, a2^5\, b2\, c1^2\, c2^8 - 2916\, a2^5\, c1^{10}\, c2 - 8748\, a2^5\, c1^8\, c2^3$$
$$- 8748\, a2^5\, c1^6\, c2^5 - 2916\, a2^5\, c1^4\, c2^7 + 729\, a2^4\, b1^{12} - 5832\, a2^4\, b1^{11}\, c1$$
$$+ 2916\, a2^4\, b1^{10}\, b2^2 + 8748\, a2^4\, b1^{10}\, b2\, c2 + 20304\, a2^4\, b1^{10}\, c1^2 - 148554\, a2^4\, b1^{10}\, c2^2$$
$$- 32076\, a2^4\, b1^9\, b2^2\, c1 + 234792\, a2^4\, b1^9\, b2\, c1\, c2 - 40284\, a2^4\, b1^9\, c1^3$$
$$+ 890784\, a2^4\, b1^9\, c1\, c2^2 + 4374\, a2^4\, b1^8\, b2^4 + 26244\, a2^4\, b1^8\, b2^3\, c2$$
$$- 5670\, a2^4\, b1^8\, b2^2\, c1^2 - 314766\, a2^4\, b1^8\, b2^2\, c2^2 - 1594080\, a2^4\, b1^8\, b2\, c1^2\, c2$$
$$- 109296\, a2^4\, b1^8\, b2\, c2^3 + 51408\, a2^4\, b1^8\, c1^4 - 2498850\, a2^4\, b1^8\, c1^2\, c2^2$$
$$+ 1013014\, a2^4\, b1^8\, c2^4 - 61236\, a2^4\, b1^7\, b2^4\, c1 + 440424\, a2^4\, b1^7\, b2^3\, c1\, c2$$
$$+ 544320\, a2^4\, b1^7\, b2^2\, c1^3 + 2208384\, a2^4\, b1^7\, b2^2\, c1\, c2^2 + 4718520\, a2^4\, b1^7\, b2\, c1^3\, c2$$
$$- 4777276\, a2^4\, b1^7\, b2\, c1\, c2^3 - 48384\, a2^4\, b1^7\, c1^5 + 4347000\, a2^4\, b1^7\, c1^3\, c2^2$$
$$- 4052056\, a2^4\, b1^7\, c1\, c2^4 + 2916\, a2^4\, b1^6\, b2^6 + 26244\, a2^4\, b1^6\, b2^5\, c2$$
$$- 6426\, a2^4\, b1^6\, b2^4\, c1^2 - 185490\, a2^4\, b1^6\, b2^4\, c2^2 - 3522096\, a2^4\, b1^6\, b2^3\, c1^2\, c2$$
$$- 138240\, a2^4\, b1^6\, b2^3\, c2^3 - 2014038\, a2^4\, b1^6\, b2^2\, c1^4 + 3166134\, a2^4\, b1^6\, b2^2\, c1^2\, c2^2$$
$$- 725220\, a2^4\, b1^6\, b2^2\, c2^4 - 8537724\, a2^4\, b1^6\, b2\, c1^4\, c2 + 20704264\, a2^4\, b1^6\, b2\, c1^2\, c2^3$$
$$+ 145044\, a2^4\, b1^6\, b2\, c2^5 + 44118\, a2^4\, b1^6\, c1^6 - 5073948\, a2^4\, b1^6\, c1^4\, c2^2$$
$$+ 5023464\, a2^4\, b1^6\, c1^2\, c2^4 - 1041714\, a2^4\, b1^6\, c2^6 - 49572\, a2^4\, b1^5\, b2^6\, c1$$
$$+ 177552\, a2^4\, b1^5\, b2^5\, c1\, c2 + 1189944\, a2^4\, b1^5\, b2^4\, c1^3 + 1503360\, a2^4\, b1^5\, b2^4\, c1\, c2^2$$
$$+ 3125084\, a2^4\, b1^5\, b2^3\, c1^3\, c2 + 2554200\, a2^4\, b1^5\, b2^3\, c1\, c2^3 + 3988116\, a2^4\, b1^5\, b2^2\, c1^5$$
$$- 29405616\, a2^4\, b1^5\, b2^2\, c1^3\, c2^2 + 2175660\, a2^4\, b1^5\, b2^2\, c1\, c2^4$$
$$+ 10339488\, a2^4\, b1^5\, b2\, c1^5\, c2 - 29219856\, a2^4\, b1^5\, b2\, c1^3\, c2^3$$
$$+ 3236760\, a2^4\, b1^5\, b2\, c1\, c2^5 - 48384\, a2^4\, b1^5\, c1^7 + 3988116\, a2^4\, b1^5\, c1^5\, c2^2$$
$$- 888196\, a2^4\, b1^5\, c1^3\, c2^4 + 2513160\, a2^4\, b1^5\, c1\, c2^6 + 729\, a2^4\, b1^4\, b2^8$$

$$+ 8748\, a2^4\, b1^4\, b2^7\, c2 + 85266\, a2^4\, b1^4\, b2^6\, c1^2 - 20898\, a2^4\, b1^4\, b2^6\, c2^2$$
$$- 2016576\, a2^4\, b1^4\, b2^5\, c1^2\, c2 - 31104\, a2^4\, b1^4\, b2^5\, c2^3 - 2218508\, a2^4\, b1^4\, b2^4\, c1^4$$
$$- 5944590\, a2^4\, b1^4\, b2^4\, c1^2\, c2^2 + 189270\, a2^4\, b1^4\, b2^4\, c2^4 + 13315012\, a2^4\, b1^4\, b2^3\, c1^4\, c2$$
$$- 6833160\, a2^4\, b1^4\, b2^3\, c1^2\, c2^3 - 75708\, a2^4\, b1^4\, b2^3\, c2^5 - 5073948\, a2^4\, b1^4\, b2^2\, c1^6$$
$$+ 48717972\, a2^4\, b1^4\, b2^2\, c1^4\, c2^2 - 6616890\, a2^4\, b1^4\, b2^2\, c1^2\, c2^4 + 407754\, a2^4\, b1^4\, b2^2\, c2^6$$
$$- 8537724\, a2^4\, b1^4\, b2\, c1^6\, c2 + 13315012\, a2^4\, b1^4\, b2\, c1^4\, c2^3$$
$$- 7856352\, a2^4\, b1^4\, b2\, c1^2\, c2^5 - 169344\, a2^4\, b1^4\, b2\, c2^7 + 51408\, a2^4\, b1^4\, c1^8$$
$$- 2014038\, a2^4\, b1^4\, c1^6\, c2^2 - 2218508\, a2^4\, b1^4\, c1^4\, c2^4 - 2014038\, a2^4\, b1^4\, c1^2\, c2^6$$
$$+ 51408\, a2^4\, b1^4\, c2^8 - 14580\, a2^4\, b1^3\, b2^8\, c1 - 27000\, a2^4\, b1^3\, b2^7\, c1\, c2$$
$$+ 503280\, a2^4\, b1^3\, b2^6\, c1^3 + 192240\, a2^4\, b1^3\, b2^6\, c1\, c2^2 + 6335280\, a2^4\, b1^3\, b2^5\, c1^3\, c2$$
$$- 333180\, a2^4\, b1^3\, b2^5\, c1\, c2^3 - 888196\, a2^4\, b1^3\, b2^4\, c1^5 + 9607680\, a2^4\, b1^3\, b2^4\, c1^3\, c2^2$$
$$- 378540\, a2^4\, b1^3\, b2^4\, c1\, c2^4 - 29219856\, a2^4\, b1^3\, b2^3\, c1^5\, c2$$
$$+ 9110880\, a2^4\, b1^3\, b2^3\, c1^3\, c2^3 - 639360\, a2^4\, b1^3\, b2^3\, c1\, c2^5 + 4347000\, a2^4\, b1^3\, b2^2\, c1^7$$
$$- 29405616\, a2^4\, b1^3\, b2^2\, c1^5\, c2^2 + 9607680\, a2^4\, b1^3\, b2^2\, c1^3\, c2^4$$
$$- 420120\, a2^4\, b1^3\, b2^2\, c1\, c2^6 + 4718520\, a2^4\, b1^3\, b2\, c1^7\, c2 + 3125084\, a2^4\, b1^3\, b2\, c1^5\, c2^3$$
$$+ 6335280\, a2^4\, b1^3\, b2\, c1^3\, c2^5 + 279180\, a2^4\, b1^3\, b2\, c1\, c2^7 - 40284\, a2^4\, b1^3\, c1^9$$
$$+ 544320\, a2^4\, b1^3\, c1^7\, c2^2 + 1189944\, a2^4\, b1^3\, c1^5\, c2^4 + 503280\, a2^4\, b1^3\, c1^3\, c2^6$$
$$- 102060\, a2^4\, b1^3\, c1\, c2^8 + 65610\, a2^4\, b1^2\, b2^8\, c1^2 - 1620\, a2^4\, b1^2\, b2^8\, c2^2$$
$$- 90720\, a2^4\, b1^2\, b2^7\, c1^2\, c2 - 2160\, a2^4\, b1^2\, b2^7\, c2^3 - 2014038\, a2^4\, b1^2\, b2^6\, c1^4$$
$$- 135270\, a2^4\, b1^2\, b2^6\, c1^2\, c2^2 + 15120\, a2^4\, b1^2\, b2^6\, c2^4 - 7856352\, a2^4\, b1^2\, b2^5\, c1^4\, c2$$
$$+ 959040\, a2^4\, b1^2\, b2^5\, c1^2\, c2^3 - 9072\, a2^4\, b1^2\, b2^5\, c2^5 + 5023464\, a2^4\, b1^2\, b2^4\, c1^6$$
$$- 6616890\, a2^4\, b1^2\, b2^4\, c1^4\, c2^2 + 567810\, a2^4\, b1^2\, b2^4\, c1^2\, c2^4 - 15120\, a2^4\, b1^2\, b2^4\, c2^6$$
$$+ 20704264\, a2^4\, b1^2\, b2^3\, c1^6\, c2 - 6833160\, a2^4\, b1^2\, b2^3\, c1^4\, c2^3$$
$$+ 959040\, a2^4\, b1^2\, b2^3\, c1^2\, c2^5 + 15120\, a2^4\, b1^2\, b2^3\, c2^7 - 2498850\, a2^4\, b1^2\, b2^2\, c1^8$$
$$+ 3166134\, a2^4\, b1^2\, b2^2\, c1^6\, c2^2 - 5944590\, a2^4\, b1^2\, b2^2\, c1^4\, c2^4$$
$$- 135270\, a2^4\, b1^2\, b2^2\, c1^2\, c2^6 - 1594080\, a2^4\, b1^2\, b2\, c1^8\, c2 - 3522096\, a2^4\, b1^2\, b2\, c1^6\, c2^3$$
$$- 2016576\, a2^4\, b1^2\, b2\, c1^4\, c2^5 - 90720\, a2^4\, b1^2\, b2\, c1^2\, c2^7 - 2160\, a2^4\, b1^2\, b2\, c2^9$$
$$+ 20304\, a2^4\, b1^2\, c1^{10} - 5670\, a2^4\, b1^2\, c1^8\, c2^2 - 6426\, a2^4\, b1^2\, c1^6\, c2^4$$
$$+ 85266\, a2^4\, b1^2\, c1^4\, c2^6 + 65610\, a2^4\, b1^2\, c1^2\, c2^8 - 108\, a2^4\, b1^2\, c2^{10}$$
$$+ 1080\, a2^4\, b1\, b2^9\, c1\, c2 - 102060\, a2^4\, b1\, b2^8\, c1^3 + 6480\, a2^4\, b1\, b2^8\, c1\, c2^2$$
$$+ 279180\, a2^4\, b1\, b2^7\, c1^3\, c2 - 15120\, a2^4\, b1\, b2^7\, c1\, c2^3 + 2513160\, a2^4\, b1\, b2^6\, c1^5$$
$$- 420120\, a2^4\, b1\, b2^6\, c1^3\, c2^2 - 15120\, a2^4\, b1\, b2^6\, c1\, c2^4 + 3236760\, a2^4\, b1\, b2^5\, c1^5\, c2$$
$$- 639360\, a2^4\, b1\, b2^5\, c1^3\, c2^3 + 45360\, a2^4\, b1\, b2^5\, c1\, c2^5 - 4052056\, a2^4\, b1\, b2^4\, c1^7$$
$$+ 2175660\, a2^4\, b1\, b2^4\, c1^5\, c2^2 - 378540\, a2^4\, b1\, b2^4\, c1^3\, c2^4 - 15120\, a2^4\, b1\, b2^4\, c1\, c2^6$$

$$- 4777276\, a2^4\, b1\, b2^3\, c1^7\, c2 + 2554200\, a2^4\, b1\, b2^3\, c1^5\, c2^3 - 333180\, a2^4\, b1\, b2^3\, c1^3\, c2^5$$
$$- 15120\, a2^4\, b1\, b2^3\, c1\, c2^7 + 890784\, a2^4\, b1\, b2^2\, c1^9 + 2208384\, a2^4\, b1\, b2^2\, c1^7\, c2^2$$
$$+ 1503360\, a2^4\, b1\, b2^2\, c1^5\, c2^4 + 192240\, a2^4\, b1\, b2^2\, c1^3\, c2^6 + 6480\, a2^4\, b1\, b2^2\, c1\, c2^8$$
$$+ 234792\, a2^4\, b1\, b2\, c1^9\, c2 + 440424\, a2^4\, b1\, b2\, c1^7\, c2^3 + 177552\, a2^4\, b1\, b2\, c1^5\, c2^5$$
$$- 27000\, a2^4\, b1\, b2\, c1^3\, c2^7 + 1080\, a2^4\, b1\, b2\, c1\, c2^9 - 5832\, a2^4\, b1\, c1^{11}$$
$$- 32076\, a2^4\, b1\, c1^9\, c2^2 - 61236\, a2^4\, b1\, c1^7\, c2^4 - 49572\, a2^4\, b1\, c1^5\, c2^6$$
$$- 14580\, a2^4\, b1\, c1^3\, c2^8 - 108\, a2^4\, b2^{10}\, c1^2 - 2160\, a2^4\, b2^9\, c1^2\, c2 + 51408\, a2^4\, b2^8\, c1^4$$
$$- 169344\, a2^4\, b2^7\, c1^4\, c2 + 15120\, a2^4\, b2^7\, c1^2\, c2^3 - 1041714\, a2^4\, b2^6\, c1^6$$
$$+ 407754\, a2^4\, b2^6\, c1^4\, c2^2 - 15120\, a2^4\, b2^6\, c1^2\, c2^4 + 145044\, a2^4\, b2^5\, c1^6\, c2$$
$$- 75708\, a2^4\, b2^5\, c1^4\, c2^3 - 9072\, a2^4\, b2^5\, c1^2\, c2^5 + 1013014\, a2^4\, b2^4\, c1^8$$
$$- 725220\, a2^4\, b2^4\, c1^6\, c2^2 + 189270\, a2^4\, b2^4\, c1^4\, c2^4 + 15120\, a2^4\, b2^4\, c1^2\, c2^6$$
$$- 109296\, a2^4\, b2^3\, c1^8\, c2 - 138240\, a2^4\, b2^3\, c1^6\, c2^3 - 31104\, a2^4\, b2^3\, c1^4\, c2^5$$
$$- 2160\, a2^4\, b2^3\, c1^2\, c2^7 - 148554\, a2^4\, b2^2\, c1^{10} - 314766\, a2^4\, b2^2\, c1^8\, c2^2$$
$$- 185490\, a2^4\, b2^2\, c1^6\, c2^4 - 20898\, a2^4\, b2^2\, c1^4\, c2^6 - 1620\, a2^4\, b2^2\, c1^2\, c2^8$$
$$+ 8748\, a2^4\, b2\, c1^{10}\, c2 + 26244\, a2^4\, b2\, c1^8\, c2^3 + 26244\, a2^4\, b2\, c1^6\, c2^5$$
$$+ 8748\, a2^4\, b2\, c1^4\, c2^7 + 729\, a2^4\, c1^{12} + 2916\, a2^4\, c1^{10}\, c2^2 + 4374\, a2^4\, c1^8\, c2^4$$
$$+ 2916\, a2^4\, c1^6\, c2^6 + 729\, a2^4\, c1^4\, c2^8 - 2916\, a2^3\, b1^{12}\, c2 + 2916\, a2^3\, b1^{11}\, b2\, c1$$
$$+ 20412\, a2^3\, b1^{11}\, c1\, c2 - 11664\, a2^3\, b1^{10}\, b2^2\, c2 - 20412\, a2^3\, b1^{10}\, b2\, c1^2$$
$$- 5832\, a2^3\, b1^{10}\, b2\, c2^2 - 60804\, a2^3\, b1^{10}\, c1^2\, c2 + 200016\, a2^3\, b1^{10}\, c2^3$$
$$+ 11664\, a2^3\, b1^9\, b2^3\, c1 + 93312\, a2^3\, b1^9\, b2^2\, c1\, c2 + 61236\, a2^3\, b1^9\, b2\, c1^3$$
$$- 562896\, a2^3\, b1^9\, b2\, c1\, c2^2 + 99900\, a2^3\, b1^9\, c1^3\, c2 - 1000080\, a2^3\, b1^9\, c1\, c2^3$$
$$- 17496\, a2^3\, b1^8\, b2^4\, c2 - 87480\, a2^3\, b1^8\, b2^3\, c1^2 - 17496\, a2^3\, b1^8\, b2^3\, c2^2$$
$$+ 285120\, a2^3\, b1^8\, b2^2\, c1^2\, c2 + 437184\, a2^3\, b1^8\, b2^2\, c2^3 - 102060\, a2^3\, b1^8\, b2\, c1^4$$
$$+ 2903040\, a2^3\, b1^8\, b2\, c1^2\, c2^2 - 109296\, a2^3\, b1^8\, b2\, c2^4 - 103572\, a2^3\, b1^8\, c1^4\, c2$$
$$+ 2364120\, a2^3\, b1^8\, c1^2\, c2^3 - 788552\, a2^3\, b1^8\, c2^5 + 17496\, a2^3\, b1^7\, b2^5\, c1$$
$$+ 157464\, a2^3\, b1^7\, b2^4\, c1\, c2 + 79920\, a2^3\, b1^7\, b2^3\, c1^3 - 1195776\, a2^3\, b1^7\, b2^3\, c1\, c2^2$$
$$- 2417040\, a2^3\, b1^7\, b2^2\, c1^3\, c2 - 1748736\, a2^3\, b1^7\, b2^2\, c1\, c2^3 + 107460\, a2^3\, b1^7\, b2\, c1^5$$
$$- 7020000\, a2^3\, b1^7\, b2\, c1^3\, c2^2 + 5651644\, a2^3\, b1^7\, b2\, c1\, c2^4 + 86076\, a2^3\, b1^7\, c1^5\, c2$$
$$- 3456000\, a2^3\, b1^7\, c1^3\, c2^3 + 2111316\, a2^3\, b1^7\, c1\, c2^5 - 11664\, a2^3\, b1^6\, b2^6\, c2$$
$$- 139968\, a2^3\, b1^6\, b2^5\, c1^2 - 17496\, a2^3\, b1^6\, b2^5\, c2^2 + 725544\, a2^3\, b1^6\, b2^4\, c1^2\, c2$$
$$+ 276480\, a2^3\, b1^6\, b2^4\, c2^3 + 503280\, a2^3\, b1^6\, b2^3\, c1^4 + 5593104\, a2^3\, b1^6\, b2^3\, c1^2\, c2^2$$
$$- 138240\, a2^3\, b1^6\, b2^3\, c2^4 + 6546312\, a2^3\, b1^6\, b2^2\, c1^4\, c2 - 9814616\, a2^3\, b1^6\, b2^2\, c1^2\, c2^3$$
$$+ 663120\, a2^3\, b1^6\, b2^2\, c2^5 - 88236\, a2^3\, b1^6\, b2\, c1^6 + 10529136\, a2^3\, b1^6\, b2\, c1^4\, c2^2$$
$$- 15796956\, a2^3\, b1^6\, b2\, c1^2\, c2^4 - 317736\, a2^3\, b1^6\, b2\, c2^6 - 88236\, a2^3\, b1^6\, c1^6\, c2$$

$$+ 3255552\, a2^3\, b1^6\, c1^4\, c2^3 - 859380\, a2^3\, b1^6\, c1^2\, c2^5 + 640656\, a2^3\, b1^6\, c2^7$$
$$+ 11664\, a2^3\, b1^5\, b2^7\, c1 + 116640\, a2^3\, b1^5\, b2^6\, c1\, c2 + 37368\, a2^3\, b1^5\, b2^5\, c1^3$$
$$- 705024\, a2^3\, b1^5\, b2^5\, c1\, c2^2 - 4946616\, a2^3\, b1^5\, b2^4\, c1^3\, c2 - 829440\, a2^3\, b1^5\, b2^4\, c1\, c2^3$$
$$- 1870992\, a2^3\, b1^5\, b2^3\, c1^5 + 3643064\, a2^3\, b1^5\, b2^3\, c1^3\, c2^2 - 1724760\, a2^3\, b1^5\, b2^3\, c1\, c2^4$$
$$- 10339488\, a2^3\, b1^5\, b2^2\, c1^5\, c2 + 35564424\, a2^3\, b1^5\, b2^2\, c1^3\, c2^3$$
$$- 705672\, a2^3\, b1^5\, b2^2\, c1\, c2^5 + 86076\, a2^3\, b1^5\, b2\, c1^7 - 10339488\, a2^3\, b1^5\, b2\, c1^5\, c2^2$$
$$+ 11437644\, a2^3\, b1^5\, b2\, c1^3\, c2^4 - 1922616\, a2^3\, b1^5\, b2\, c1\, c2^6 + 107460\, a2^3\, b1^5\, c1^7\, c2$$
$$- 1870992\, a2^3\, b1^5\, c1^5\, c2^3 - 1576972\, a2^3\, b1^5\, c1^3\, c2^5 - 1161432\, a2^3\, b1^5\, c1\, c2^7$$
$$- 2916\, a2^3\, b1^4\, b2^8\, c2 - 99144\, a2^3\, b1^4\, b2^7\, c1^2 - 5832\, a2^3\, b1^4\, b2^7\, c2^2$$
$$+ 352944\, a2^3\, b1^4\, b2^6\, c1^2\, c2 + 41472\, a2^3\, b1^4\, b2^6\, c2^3 + 1189944\, a2^3\, b1^4\, b2^5\, c1^4$$
$$+ 2974320\, a2^3\, b1^4\, b2^5\, c1^2\, c2^2 - 31104\, a2^3\, b1^4\, b2^5\, c2^4 + 2924312\, a2^3\, b1^4\, b2^4\, c1^4\, c2$$
$$+ 2968920\, a2^3\, b1^4\, b2^4\, c1^2\, c2^3 - 120312\, a2^3\, b1^4\, b2^4\, c2^5 + 3255552\, a2^3\, b1^4\, b2^3\, c1^6$$
$$- 32478648\, a2^3\, b1^4\, b2^3\, c1^4\, c2^2 + 3864240\, a2^3\, b1^4\, b2^3\, c1^2\, c2^4 + 130680\, a2^3\, b1^4\, b2^3\, c2^6$$
$$+ 10529136\, a2^3\, b1^4\, b2^2\, c1^6\, c2 - 32478648\, a2^3\, b1^4\, b2^2\, c1^4\, c2^3$$
$$+ 2974968\, a2^3\, b1^4\, b2^2\, c1^2\, c2^5 - 289008\, a2^3\, b1^4\, b2^2\, c2^7 - 103572\, a2^3\, b1^4\, b2\, c1^8$$
$$+ 6546312\, a2^3\, b1^4\, b2\, c1^6\, c2^2 + 2924312\, a2^3\, b1^4\, b2\, c1^4\, c2^4$$
$$+ 4245912\, a2^3\, b1^4\, b2\, c1^2\, c2^6 + 156924\, a2^3\, b1^4\, b2\, c2^8 - 102060\, a2^3\, b1^4\, c1^8\, c2$$
$$+ 503280\, a2^3\, b1^4\, c1^6\, c2^3 + 1189944\, a2^3\, b1^4\, c1^4\, c2^5 + 544320\, a2^3\, b1^4\, c1^2\, c2^7$$
$$- 40284\, a2^3\, b1^4\, c2^9 + 2916\, a2^3\, b1^3\, b2^9\, c1 + 32076\, a2^3\, b1^3\, b2^8\, c1\, c2$$
$$+ 79920\, a2^3\, b1^3\, b2^7\, c1^3 - 74304\, a2^3\, b1^3\, b2^7\, c1\, c2^2 - 2572560\, a2^3\, b1^3\, b2^6\, c1^3\, c2$$
$$- 82944\, a2^3\, b1^3\, b2^6\, c1\, c2^3 - 1576972\, a2^3\, b1^3\, b2^5\, c1^5 - 4952880\, a2^3\, b1^3\, b2^5\, c1^3\, c2^2$$
$$+ 457596\, a2^3\, b1^3\, b2^5\, c1\, c2^4 + 11437644\, a2^3\, b1^3\, b2^4\, c1^5\, c2$$
$$- 4555440\, a2^3\, b1^3\, b2^4\, c1^3\, c2^3 - 154764\, a2^3\, b1^3\, b2^4\, c1\, c2^5 - 3456000\, a2^3\, b1^3\, b2^3\, c1^7$$
$$+ 35564424\, a2^3\, b1^3\, b2^3\, c1^5\, c2^2 - 4555440\, a2^3\, b1^3\, b2^3\, c1^3\, c2^4$$
$$+ 529416\, a2^3\, b1^3\, b2^3\, c1\, c2^6 - 7020000\, a2^3\, b1^3\, b2^2\, c1^7\, c2$$
$$+ 3643064\, a2^3\, b1^3\, b2^2\, c1^5\, c2^3 - 4952880\, a2^3\, b1^3\, b2^2\, c1^3\, c2^5 + 13176\, a2^3\, b1^3\, b2^2\, c1\, c2^7$$
$$+ 99900\, a2^3\, b1^3\, b2\, c1^9 - 2417040\, a2^3\, b1^3\, b2\, c1^7\, c2^2 - 4946616\, a2^3\, b1^3\, b2\, c1^5\, c2^4$$
$$- 2572560\, a2^3\, b1^3\, b2\, c1^3\, c2^6 - 142884\, a2^3\, b1^3\, b2\, c1\, c2^8 + 61236\, a2^3\, b1^3\, c1^9\, c2$$
$$+ 79920\, a2^3\, b1^3\, c1^7\, c2^3 + 37368\, a2^3\, b1^3\, c1^5\, c2^5 + 79920\, a2^3\, b1^3\, c1^3\, c2^7$$
$$+ 61236\, a2^3\, b1^3\, c1\, c2^9 - 26244\, a2^3\, b1^2\, b2^9\, c1^2 - 26244\, a2^3\, b1^2\, b2^8\, c1^2\, c2$$
$$+ 2160\, a2^3\, b1^2\, b2^8\, c2^3 + 544320\, a2^3\, b1^2\, b2^7\, c1^4 + 286416\, a2^3\, b1^2\, b2^7\, c1^2\, c2^2$$
$$- 2160\, a2^3\, b1^2\, b2^7\, c2^4 + 4245912\, a2^3\, b1^2\, b2^6\, c1^4\, c2 - 487944\, a2^3\, b1^2\, b2^6\, c1^2\, c2^3$$
$$- 9072\, a2^3\, b1^2\, b2^6\, c2^5 - 859380\, a2^3\, b1^2\, b2^5\, c1^6 + 2974968\, a2^3\, b1^2\, b2^5\, c1^4\, c2^2$$
$$- 227124\, a2^3\, b1^2\, b2^5\, c1^2\, c2^4 + 15120\, a2^3\, b1^2\, b2^5\, c2^6 - 15796956\, a2^3\, b1^2\, b2^4\, c1^6\, c2$$

$$+ 3864240\, a2^3\, b1^2\, b2^4\, c1^4\, c2^3 - 227124\, a2^3\, b1^2\, b2^4\, c1^2\, c2^5 - 2160\, a2^3\, b1^2\, b2^4\, c2^7$$
$$+ 2364120\, a2^3\, b1^2\, b2^3\, c1^8 - 9814616\, a2^3\, b1^2\, b2^3\, c1^6\, c2^2 + 2968920\, a2^3\, b1^2\, b2^3\, c1^4\, c2^4$$
$$- 487944\, a2^3\, b1^2\, b2^3\, c1^2\, c2^6 - 6480\, a2^3\, b1^2\, b2^3\, c2^8 + 2903040\, a2^3\, b1^2\, b2^2\, c1^8\, c2$$
$$+ 5593104\, a2^3\, b1^2\, b2^2\, c1^6\, c2^3 + 2974320\, a2^3\, b1^2\, b2^2\, c1^4\, c2^5$$
$$+ 286416\, a2^3\, b1^2\, b2^2\, c1^2\, c2^7 + 2160\, a2^3\, b1^2\, b2^2\, c2^9 - 60804\, a2^3\, b1^2\, b2\, c1^{10}$$
$$+ 285120\, a2^3\, b1^2\, b2\, c1^8\, c2^2 + 725544\, a2^3\, b1^2\, b2\, c1^6\, c2^4 + 352944\, a2^3\, b1^2\, b2\, c1^4\, c2^6$$
$$- 26244\, a2^3\, b1^2\, b2\, c1^2\, c2^8 + 432\, a2^3\, b1^2\, b2\, c2^{10} - 20412\, a2^3\, b1^2\, c1^{10}\, c2$$
$$- 87480\, a2^3\, b1^2\, c1^8\, c2^3 - 139968\, a2^3\, b1^2\, c1^6\, c2^5 - 99144\, a2^3\, b1^2\, c1^4\, c2^7$$
$$- 26244\, a2^3\, b1^2\, c1^2\, c2^9 + 61236\, a2^3\, b1\, b2^9\, c1^3 - 2160\, a2^3\, b1\, b2^9\, c1\, c2^2$$
$$- 142884\, a2^3\, b1\, b2^8\, c1^3\, c2 - 2160\, a2^3\, b1\, b2^8\, c1\, c2^3 - 1161432\, a2^3\, b1\, b2^7\, c1^5$$
$$+ 13176\, a2^3\, b1\, b2^7\, c1^3\, c2^2 + 19440\, a2^3\, b1\, b2^7\, c1\, c2^4 - 1922616\, a2^3\, b1\, b2^6\, c1^5\, c2$$
$$+ 529416\, a2^3\, b1\, b2^6\, c1^3\, c2^3 - 15120\, a2^3\, b1\, b2^6\, c1\, c2^5 + 2111316\, a2^3\, b1\, b2^5\, c1^7$$
$$- 705672\, a2^3\, b1\, b2^5\, c1^5\, c2^2 - 154764\, a2^3\, b1\, b2^5\, c1^3\, c2^4 - 15120\, a2^3\, b1\, b2^5\, c1\, c2^6$$
$$+ 5651644\, a2^3\, b1\, b2^4\, c1^7\, c2 - 1724760\, a2^3\, b1\, b2^4\, c1^5\, c2^3 + 457596\, a2^3\, b1\, b2^4\, c1^3\, c2^5$$
$$+ 19440\, a2^3\, b1\, b2^4\, c1\, c2^7 - 1000080\, a2^3\, b1\, b2^3\, c1^9 - 1748736\, a2^3\, b1\, b2^3\, c1^7\, c2^2$$
$$- 829440\, a2^3\, b1\, b2^3\, c1^5\, c2^4 - 82944\, a2^3\, b1\, b2^3\, c1^3\, c2^6 - 2160\, a2^3\, b1\, b2^3\, c1\, c2^8$$
$$- 562896\, a2^3\, b1\, b2^2\, c1^9\, c2 - 1195776\, a2^3\, b1\, b2^2\, c1^7\, c2^3 - 705024\, a2^3\, b1\, b2^2\, c1^5\, c2^5$$
$$- 74304\, a2^3\, b1\, b2^2\, c1^3\, c2^7 - 2160\, a2^3\, b1\, b2^2\, c1\, c2^9 + 20412\, a2^3\, b1\, b2\, c1^{11}$$
$$+ 93312\, a2^3\, b1\, b2\, c1^9\, c2^2 + 157464\, a2^3\, b1\, b2\, c1^7\, c2^4 + 116640\, a2^3\, b1\, b2\, c1^5\, c2^6$$
$$+ 32076\, a2^3\, b1\, b2\, c1^3\, c2^8 + 2916\, a2^3\, b1\, c1^{11}\, c2 + 11664\, a2^3\, b1\, c1^9\, c2^3$$
$$+ 17496\, a2^3\, b1\, c1^7\, c2^5 + 11664\, a2^3\, b1\, c1^5\, c2^7 + 2916\, a2^3\, b1\, c1^3\, c2^9$$
$$+ 432\, a2^3\, b2^{10}\, c1^2\, c2 - 40284\, a2^3\, b2^9\, c1^4 + 2160\, a2^3\, b2^9\, c1^2\, c2^2$$
$$+ 156924\, a2^3\, b2^8\, c1^4\, c2 - 6480\, a2^3\, b2^8\, c1^2\, c2^3 + 640656\, a2^3\, b2^7\, c1^6$$
$$- 289008\, a2^3\, b2^7\, c1^4\, c2^2 - 2160\, a2^3\, b2^7\, c1^2\, c2^4 - 317736\, a2^3\, b2^6\, c1^6\, c2$$
$$+ 130680\, a2^3\, b2^6\, c1^4\, c2^3 + 15120\, a2^3\, b2^6\, c1^2\, c2^5 - 788552\, a2^3\, b2^5\, c1^8$$
$$+ 663120\, a2^3\, b2^5\, c1^6\, c2^2 - 120312\, a2^3\, b2^5\, c1^4\, c2^4 - 9072\, a2^3\, b2^5\, c1^2\, c2^6$$
$$- 109296\, a2^3\, b2^4\, c1^8\, c2 - 138240\, a2^3\, b2^4\, c1^6\, c2^3 - 31104\, a2^3\, b2^4\, c1^4\, c2^5$$
$$- 2160\, a2^3\, b2^4\, c1^2\, c2^7 + 200016\, a2^3\, b2^3\, c1^{10} + 437184\, a2^3\, b2^3\, c1^8\, c2^2$$
$$+ 276480\, a2^3\, b2^3\, c1^6\, c2^4 + 41472\, a2^3\, b2^3\, c1^4\, c2^6 + 2160\, a2^3\, b2^3\, c1^2\, c2^8$$
$$- 5832\, a2^3\, b2^2\, c1^{10}\, c2 - 17496\, a2^3\, b2^2\, c1^8\, c2^3 - 17496\, a2^3\, b2^2\, c1^6\, c2^5$$
$$- 5832\, a2^3\, b2^2\, c1^4\, c2^7 - 2916\, a2^3\, b2\, c1^{12} - 11664\, a2^3\, b2\, c1^{10}\, c2^2$$
$$- 17496\, a2^3\, b2\, c1^8\, c2^4 - 11664\, a2^3\, b2\, c1^6\, c2^6 - 2916\, a2^3\, b2\, c1^4\, c2^8$$
$$+ 4374\, a2^2\, b1^{12}\, c2^2 - 8748\, a2^2\, b1^{11}\, b2\, c1\, c2 - 26244\, a2^2\, b1^{11}\, c1\, c2^2$$
$$+ 4374\, a2^2\, b1^{10}\, b2^2\, c1^2 + 17496\, a2^2\, b1^{10}\, b2^2\, c2^2 + 52488\, a2^2\, b1^{10}\, b2\, c1^2\, c2$$

$$- 5832\, a2^2\, b1^{10}\, b2\, c2^3 - 108\, a2^2\, b1^{10}\, c1^4 + 64962\, a2^2\, b1^{10}\, c1^2\, c2^2$$
$$- 148554\, a2^2\, b1^{10}\, c2^4 - 34992\, a2^2\, b1^9\, b2^3\, c1\, c2 - 26244\, a2^2\, b1^9\, b2^2\, c1^3$$
$$- 87480\, a2^2\, b1^9\, b2^2\, c1\, c2^2 - 131220\, a2^2\, b1^9\, b2\, c1^3\, c2 + 621216\, a2^2\, b1^9\, b2\, c1\, c2^3$$
$$+ 648\, a2^2\, b1^9\, c1^5 - 84240\, a2^2\, b1^9\, c1^3\, c2^2 + 594756\, a2^2\, b1^9\, c1\, c2^4$$
$$+ 17496\, a2^2\, b1^8\, b2^4\, c1^2 + 26244\, a2^2\, b1^8\, b2^4\, c2^2 + 192456\, a2^2\, b1^8\, b2^3\, c1^2\, c2$$
$$- 17496\, a2^2\, b1^8\, b2^3\, c2^3 + 65610\, a2^2\, b1^8\, b2^2\, c1^4 - 716364\, a2^2\, b1^8\, b2^2\, c1^2\, c2^2$$
$$- 314766\, a2^2\, b1^8\, b2^2\, c2^4 + 174960\, a2^2\, b1^8\, b2\, c1^4\, c2 - 2425464\, a2^2\, b1^8\, b2\, c1^2\, c2^3$$
$$+ 191484\, a2^2\, b1^8\, b2\, c2^5 - 1620\, a2^2\, b1^8\, c1^6 + 67878\, a2^2\, b1^8\, c1^4\, c2^2$$
$$- 1166724\, a2^2\, b1^8\, c1^2\, c2^4 + 362362\, a2^2\, b1^8\, c2^6 - 52488\, a2^2\, b1^7\, b2^5\, c1\, c2$$
$$- 99144\, a2^2\, b1^7\, b2^4\, c1^3 - 104976\, a2^2\, b1^7\, b2^4\, c1\, c2^2 + 156816\, a2^2\, b1^7\, b2^3\, c1^3\, c2$$
$$+ 1335744\, a2^2\, b1^7\, b2^3\, c1\, c2^3 - 86832\, a2^2\, b1^7\, b2^2\, c1^5 + 3390336\, a2^2\, b1^7\, b2^2\, c1^3\, c2^2$$
$$+ 309744\, a2^2\, b1^7\, b2^2\, c1\, c2^4 - 148716\, a2^2\, b1^7\, b2\, c1^5\, c2 + 4759776\, a2^2\, b1^7\, b2\, c1^3\, c2^3$$
$$- 3514884\, a2^2\, b1^7\, b2\, c1\, c2^5 + 2160\, a2^2\, b1^7\, c1^7 - 54756\, a2^2\, b1^7\, c1^5\, c2^2$$
$$+ 1402056\, a2^2\, b1^7\, c1^3\, c2^4 - 469844\, a2^2\, b1^7\, c1\, c2^6 + 26244\, a2^2\, b1^6\, b2^6\, c1^2$$
$$+ 17496\, a2^2\, b1^6\, b2^6\, c2^2 + 262440\, a2^2\, b1^6\, b2^5\, c1^2\, c2 - 17496\, a2^2\, b1^6\, b2^5\, c2^3$$
$$+ 85266\, a2^2\, b1^6\, b2^4\, c1^4 - 1744416\, a2^2\, b1^6\, b2^4\, c1^2\, c2^2 - 185490\, a2^2\, b1^6\, b2^4\, c2^4$$
$$- 1850904\, a2^2\, b1^6\, b2^3\, c1^4\, c2 - 3267216\, a2^2\, b1^6\, b2^3\, c1^2\, c2^3 + 231336\, a2^2\, b1^6\, b2^3\, c2^5$$
$$+ 71118\, a2^2\, b1^6\, b2^2\, c1^6 - 7043112\, a2^2\, b1^6\, b2^2\, c1^4\, c2^2 + 9811374\, a2^2\, b1^6\, b2^2\, c1^2\, c2^4$$
$$- 447228\, a2^2\, b1^6\, b2^2\, c2^6 + 122472\, a2^2\, b1^6\, b2\, c1^6\, c2 - 5833728\, a2^2\, b1^6\, b2\, c1^4\, c2^3$$
$$+ 5553624\, a2^2\, b1^6\, b2\, c1^2\, c2^5 + 263952\, a2^2\, b1^6\, b2\, c2^7 - 1620\, a2^2\, b1^6\, c1^8$$
$$+ 71118\, a2^2\, b1^6\, c1^6\, c2^2 - 983232\, a2^2\, b1^6\, c1^4\, c2^4 - 495914\, a2^2\, b1^6\, c1^2\, c2^6$$
$$- 273240\, a2^2\, b1^6\, c2^8 - 34992\, a2^2\, b1^5\, b2^7\, c1\, c2 - 139968\, a2^2\, b1^5\, b2^6\, c1^3$$
$$- 52488\, a2^2\, b1^5\, b2^6\, c1\, c2^2 + 727704\, a2^2\, b1^5\, b2^5\, c1^3\, c2 + 810000\, a2^2\, b1^5\, b2^5\, c1\, c2^3$$
$$+ 300996\, a2^2\, b1^5\, b2^4\, c1^5 + 5600664\, a2^2\, b1^5\, b2^4\, c1^3\, c2^2 - 390420\, a2^2\, b1^5\, b2^4\, c1\, c2^4$$
$$+ 4408992\, a2^2\, b1^5\, b2^3\, c1^5\, c2 - 11110616\, a2^2\, b1^5\, b2^3\, c1^3\, c2^3$$
$$+ 1347192\, a2^2\, b1^5\, b2^3\, c1\, c2^5 - 54756\, a2^2\, b1^5\, b2^2\, c1^7 + 8895744\, a2^2\, b1^5\, b2^2\, c1^5\, c2^2$$
$$- 18340356\, a2^2\, b1^5\, b2^2\, c1^3\, c2^4 - 320760\, a2^2\, b1^5\, b2^2\, c1\, c2^6 - 148716\, a2^2\, b1^5\, b2\, c1^7\, c2$$
$$+ 4408992\, a2^2\, b1^5\, b2\, c1^5\, c2^3 + 473556\, a2^2\, b1^5\, b2\, c1^3\, c2^5 + 915624\, a2^2\, b1^5\, b2\, c1\, c2^7$$
$$+ 648\, a2^2\, b1^5\, c1^9 - 86832\, a2^2\, b1^5\, c1^7\, c2^2 + 300996\, a2^2\, b1^5\, c1^5\, c2^4$$
$$+ 709560\, a2^2\, b1^5\, c1^3\, c2^6 + 321084\, a2^2\, b1^5\, c1\, c2^8 + 17496\, a2^2\, b1^4\, b2^8\, c1^2$$
$$+ 4374\, a2^2\, b1^4\, b2^8\, c2^2 + 157464\, a2^2\, b1^4\, b2^7\, c1^2\, c2 - 5832\, a2^2\, b1^4\, b2^7\, c2^3$$
$$- 6426\, a2^2\, b1^4\, b2^6\, c1^4 - 1080540\, a2^2\, b1^4\, b2^6\, c1^2\, c2^2 - 20898\, a2^2\, b1^4\, b2^6\, c2^4$$
$$- 3531276\, a2^2\, b1^4\, b2^5\, c1^4\, c2 - 813240\, a2^2\, b1^4\, b2^5\, c1^2\, c2^3 + 43740\, a2^2\, b1^4\, b2^5\, c2^5$$
$$- 983232\, a2^2\, b1^4\, b2^4\, c1^6 + 4441722\, a2^2\, b1^4\, b2^4\, c1^4\, c2^2 - 1210140\, a2^2\, b1^4\, b2^4\, c1^2\, c2^4$$

$$+ 23706\, a2^2\, b1^4\, b2^4\, c2^6 - 5833728\, a2^2\, b1^4\, b2^3\, c1^6\, c2 + 26556352\, a2^2\, b1^4\, b2^3\, c1^4\, c2^3$$
$$- 1350432\, a2^2\, b1^4\, b2^3\, c1^2\, c2^5 - 69552\, a2^2\, b1^4\, b2^3\, c2^7 + 67878\, a2^2\, b1^4\, b2^2\, c1^8$$
$$- 7043112\, a2^2\, b1^4\, b2^2\, c1^6\, c2^2 + 4441722\, a2^2\, b1^4\, b2^2\, c1^4\, c2^4$$
$$- 812268\, a2^2\, b1^4\, b2^2\, c1^2\, c2^6 + 134460\, a2^2\, b1^4\, b2^2\, c2^8 + 174960\, a2^2\, b1^4\, b2\, c1^8\, c2$$
$$- 1850904\, a2^2\, b1^4\, b2\, c1^6\, c2^3 - 3531276\, a2^2\, b1^4\, b2\, c1^4\, c2^5$$
$$- 1587600\, a2^2\, b1^4\, b2\, c1^2\, c2^7 - 82188\, a2^2\, b1^4\, b2\, c2^9 - 108\, a2^2\, b1^4\, c1^{10}$$
$$+ 65610\, a2^2\, b1^4\, c1^8\, c2^2 + 85266\, a2^2\, b1^4\, c1^6\, c2^4 - 6426\, a2^2\, b1^4\, c1^4\, c2^6$$
$$- 5670\, a2^2\, b1^4\, c1^2\, c2^8 + 20304\, a2^2\, b1^4\, c2^{10} - 8748\, a2^2\, b1^3\, b2^9\, c1\, c2$$
$$- 87480\, a2^2\, b1^3\, b2^8\, c1^3 - 8748\, a2^2\, b1^3\, b2^8\, c1\, c2^2 + 460080\, a2^2\, b1^3\, b2^7\, c1^3\, c2$$
$$+ 97632\, a2^2\, b1^3\, b2^7\, c1\, c2^3 + 709560\, a2^2\, b1^3\, b2^6\, c1^5 + 2248560\, a2^2\, b1^3\, b2^6\, c1^3\, c2^2$$
$$- 108648\, a2^2\, b1^3\, b2^6\, c1\, c2^4 + 473556\, a2^2\, b1^3\, b2^5\, c1^5\, c2 + 455760\, a2^2\, b1^3\, b2^5\, c1^3\, c2^3$$
$$- 144180\, a2^2\, b1^3\, b2^5\, c1\, c2^5 + 1402056\, a2^2\, b1^3\, b2^4\, c1^7 - 18340356\, a2^2\, b1^3\, b2^4\, c1^5\, c2^2$$
$$+ 2846880\, a2^2\, b1^3\, b2^4\, c1^3\, c2^4 + 197532\, a2^2\, b1^3\, b2^4\, c1\, c2^6$$
$$+ 4759776\, a2^2\, b1^3\, b2^3\, c1^7\, c2 - 11110616\, a2^2\, b1^3\, b2^3\, c1^5\, c2^3$$
$$+ 455760\, a2^2\, b1^3\, b2^3\, c1^3\, c2^5 - 339768\, a2^2\, b1^3\, b2^3\, c1\, c2^7 - 84240\, a2^2\, b1^3\, b2^2\, c1^9$$
$$+ 3390336\, a2^2\, b1^3\, b2^2\, c1^7\, c2^2 + 5600664\, a2^2\, b1^3\, b2^2\, c1^5\, c2^4$$
$$+ 2248560\, a2^2\, b1^3\, b2^2\, c1^3\, c2^6 + 122472\, a2^2\, b1^3\, b2^2\, c1\, c2^8 - 131220\, a2^2\, b1^3\, b2\, c1^9\, c2$$
$$+ 156816\, a2^2\, b1^3\, b2\, c1^7\, c2^3 + 727704\, a2^2\, b1^3\, b2\, c1^5\, c2^5 + 460080\, a2^2\, b1^3\, b2\, c1^3\, c2^7$$
$$+ 20412\, a2^2\, b1^3\, b2\, c1\, c2^9 - 26244\, a2^2\, b1^3\, c1^9\, c2^2 - 99144\, a2^2\, b1^3\, c1^7\, c2^4$$
$$- 139968\, a2^2\, b1^3\, c1^5\, c2^6 - 87480\, a2^2\, b1^3\, c1^3\, c2^8 - 20412\, a2^2\, b1^3\, c1\, c2^{10}$$
$$+ 4374\, a2^2\, b1^2\, b2^{10}\, c1^2 + 34992\, a2^2\, b1^2\, b2^9\, c1^2\, c2 - 5670\, a2^2\, b1^2\, b2^8\, c1^4$$
$$- 118098\, a2^2\, b1^2\, b2^8\, c1^2\, c2^2 - 1620\, a2^2\, b1^2\, b2^8\, c2^4 - 1587600\, a2^2\, b1^2\, b2^7\, c1^4\, c2$$
$$+ 28512\, a2^2\, b1^2\, b2^7\, c1^2\, c2^3 + 3888\, a2^2\, b1^2\, b2^7\, c2^5 - 495914\, a2^2\, b1^2\, b2^6\, c1^6$$
$$- 812268\, a2^2\, b1^2\, b2^6\, c1^4\, c2^2 + 316062\, a2^2\, b1^2\, b2^6\, c1^2\, c2^4 + 5553624\, a2^2\, b1^2\, b2^5\, c1^6\, c2$$
$$- 1350432\, a2^2\, b1^2\, b2^5\, c1^4\, c2^3 - 243000\, a2^2\, b1^2\, b2^5\, c1^2\, c2^5 - 6480\, a2^2\, b1^2\, b2^5\, c2^7$$
$$- 1166724\, a2^2\, b1^2\, b2^4\, c1^8 + 9811374\, a2^2\, b1^2\, b2^4\, c1^6\, c2^2 - 1210140\, a2^2\, b1^2\, b2^4\, c1^4\, c2^4$$
$$+ 316062\, a2^2\, b1^2\, b2^4\, c1^2\, c2^6 + 4860\, a2^2\, b1^2\, b2^4\, c2^8 - 2425464\, a2^2\, b1^2\, b2^3\, c1^8\, c2$$
$$- 3267216\, a2^2\, b1^2\, b2^3\, c1^6\, c2^3 - 813240\, a2^2\, b1^2\, b2^3\, c1^4\, c2^5 + 28512\, a2^2\, b1^2\, b2^3\, c1^2\, c2^7$$
$$+ 64962\, a2^2\, b1^2\, b2^2\, c1^{10} - 716364\, a2^2\, b1^2\, b2^2\, c1^8\, c2^2 - 1744416\, a2^2\, b1^2\, b2^2\, c1^6\, c2^4$$
$$- 1080540\, a2^2\, b1^2\, b2^2\, c1^4\, c2^6 - 118098\, a2^2\, b1^2\, b2^2\, c1^2\, c2^8 - 648\, a2^2\, b1^2\, b2^2\, c2^{10}$$
$$+ 52488\, a2^2\, b1^2\, b2\, c1^{10}\, c2 + 192456\, a2^2\, b1^2\, b2\, c1^8\, c2^3 + 262440\, a2^2\, b1^2\, b2\, c1^6\, c2^5$$
$$+ 157464\, a2^2\, b1^2\, b2\, c1^4\, c2^7 + 34992\, a2^2\, b1^2\, b2\, c1^2\, c2^9 + 4374\, a2^2\, b1^2\, c1^{10}\, c2^2$$
$$+ 17496\, a2^2\, b1^2\, c1^8\, c2^4 + 26244\, a2^2\, b1^2\, c1^6\, c2^6 + 17496\, a2^2\, b1^2\, c1^4\, c2^8$$
$$+ 4374\, a2^2\, b1^2\, c1^2\, c2^{10} - 20412\, a2^2\, b1\, b2^{10}\, c1^3 + 20412\, a2^2\, b1\, b2^9\, c1^3\, c2$$

$$+ 2160\, a2^2\, b1\, b2^9\, c1\, c2^3 + 321084\, a2^2\, b1\, b2^8\, c1^5 + 122472\, a2^2\, b1\, b2^8\, c1^3\, c2^2$$
$$- 3240\, a2^2\, b1\, b2^8\, c1\, c2^4 + 915624\, a2^2\, b1\, b2^7\, c1^5\, c2 - 339768\, a2^2\, b1\, b2^7\, c1^3\, c2^3$$
$$- 6480\, a2^2\, b1\, b2^7\, c1\, c2^5 - 469844\, a2^2\, b1\, b2^6\, c1^7 - 320760\, a2^2\, b1\, b2^6\, c1^5\, c2^2$$
$$+ 197532\, a2^2\, b1\, b2^6\, c1^3\, c2^4 + 15120\, a2^2\, b1\, b2^6\, c1\, c2^6 - 3514884\, a2^2\, b1\, b2^5\, c1^7\, c2$$
$$+ 1347192\, a2^2\, b1\, b2^5\, c1^5\, c2^3 - 144180\, a2^2\, b1\, b2^5\, c1^3\, c2^5 - 6480\, a2^2\, b1\, b2^5\, c1\, c2^7$$
$$+ 594756\, a2^2\, b1\, b2^4\, c1^9 + 309744\, a2^2\, b1\, b2^4\, c1^7\, c2^2 - 390420\, a2^2\, b1\, b2^4\, c1^5\, c2^4$$
$$- 108648\, a2^2\, b1\, b2^4\, c1^3\, c2^6 - 3240\, a2^2\, b1\, b2^4\, c1\, c2^8 + 621216\, a2^2\, b1\, b2^3\, c1^9\, c2$$
$$+ 1335744\, a2^2\, b1\, b2^3\, c1^7\, c2^3 + 810000\, a2^2\, b1\, b2^3\, c1^5\, c2^5 + 97632\, a2^2\, b1\, b2^3\, c1^3\, c2^7$$
$$+ 2160\, a2^2\, b1\, b2^3\, c1\, c2^9 - 26244\, a2^2\, b1\, b2^2\, c1^{11} - 87480\, a2^2\, b1\, b2^2\, c1^9\, c2^2$$
$$- 104976\, a2^2\, b1\, b2^2\, c1^7\, c2^4 - 52488\, a2^2\, b1\, b2^2\, c1^5\, c2^6 - 8748\, a2^2\, b1\, b2^2\, c1^3\, c2^8$$
$$- 8748\, a2^2\, b1\, b2\, c1^{11}\, c2 - 34992\, a2^2\, b1\, b2\, c1^9\, c2^3 - 52488\, a2^2\, b1\, b2\, c1^7\, c2^5$$
$$- 34992\, a2^2\, b1\, b2\, c1^5\, c2^7 - 8748\, a2^2\, b1\, b2\, c1^3\, c2^9 + 20304\, a2^2\, b2^{10}\, c1^4$$
$$- 648\, a2^2\, b2^{10}\, c1^2\, c2^2 - 82188\, a2^2\, b2^9\, c1^4\, c2 - 273240\, a2^2\, b2^8\, c1^6$$
$$+ 134460\, a2^2\, b2^8\, c1^4\, c2^2 + 4860\, a2^2\, b2^8\, c1^2\, c2^4 + 263952\, a2^2\, b2^7\, c1^6\, c2$$
$$- 69552\, a2^2\, b2^7\, c1^4\, c2^3 - 6480\, a2^2\, b2^7\, c1^2\, c2^5 + 362362\, a2^2\, b2^6\, c1^8$$
$$- 447228\, a2^2\, b2^6\, c1^6\, c2^2 + 23706\, a2^2\, b2^6\, c1^4\, c2^4 + 191484\, a2^2\, b2^5\, c1^8\, c2$$
$$+ 231336\, a2^2\, b2^5\, c1^6\, c2^3 + 43740\, a2^2\, b2^5\, c1^4\, c2^5 + 3888\, a2^2\, b2^5\, c1^2\, c2^7$$
$$- 148554\, a2^2\, b2^4\, c1^{10} - 314766\, a2^2\, b2^4\, c1^8\, c2^2 - 185490\, a2^2\, b2^4\, c1^6\, c2^4$$
$$- 20898\, a2^2\, b2^4\, c1^4\, c2^6 - 1620\, a2^2\, b2^4\, c1^2\, c2^8 - 5832\, a2^2\, b2^3\, c1^{10}\, c2$$
$$- 17496\, a2^2\, b2^3\, c1^8\, c2^3 - 17496\, a2^2\, b2^3\, c1^6\, c2^5 - 5832\, a2^2\, b2^3\, c1^4\, c2^7$$
$$+ 4374\, a2^2\, b2^2\, c1^{12} + 17496\, a2^2\, b2^2\, c1^{10}\, c2^2 + 26244\, a2^2\, b2^2\, c1^8\, c2^4$$
$$+ 17496\, a2^2\, b2^2\, c1^6\, c2^6 + 4374\, a2^2\, b2^2\, c1^4\, c2^8 - 2916\, a2\, b1^{12}\, c2^3$$
$$+ 8748\, a2\, b1^{11}\, b2\, c1\, c2^2 + 14580\, a2\, b1^{11}\, c1\, c2^3 - 8748\, a2\, b1^{10}\, b2^2\, c1^2\, c2$$
$$- 11664\, a2\, b1^{10}\, b2^2\, c2^3 - 43740\, a2\, b1^{10}\, b2\, c1^2\, c2^2 + 8748\, a2\, b1^{10}\, b2\, c2^4$$
$$+ 216\, a2\, b1^{10}\, c1^4\, c2 - 28728\, a2\, b1^{10}\, c1^2\, c2^3 + 57672\, a2\, b1^{10}\, c2^5 + 2916\, a2\, b1^9\, b2^3\, c1^3$$
$$+ 34992\, a2\, b1^9\, b2^3\, c1\, c2^2 + 43740\, a2\, b1^9\, b2^2\, c1^3\, c2 + 23328\, a2\, b1^9\, b2^2\, c1\, c2^3$$
$$- 216\, a2\, b1^9\, b2\, c1^5 + 87480\, a2\, b1^9\, b2\, c1^3\, c2^2 - 322272\, a2\, b1^9\, b2\, c1\, c2^4$$
$$- 1080\, a2\, b1^9\, c1^5\, c2 + 27000\, a2\, b1^9\, c1^3\, c2^3 - 173448\, a2\, b1^9\, c1\, c2^5$$
$$- 34992\, a2\, b1^8\, b2^4\, c1^2\, c2 - 17496\, a2\, b1^8\, b2^4\, c2^3 - 14580\, a2\, b1^8\, b2^3\, c1^4$$
$$- 122472\, a2\, b1^8\, b2^3\, c1^2\, c2^2 + 26244\, a2\, b1^8\, b2^3\, c2^4 - 87480\, a2\, b1^8\, b2^2\, c1^4\, c2$$
$$+ 600048\, a2\, b1^8\, b2^2\, c1^2\, c2^3 + 110160\, a2\, b1^8\, b2^2\, c2^5 + 1080\, a2\, b1^8\, b2\, c1^6$$
$$- 87480\, a2\, b1^8\, b2\, c1^4\, c2^2 + 912708\, a2\, b1^8\, b2\, c1^2\, c2^4 - 100548\, a2\, b1^8\, b2\, c2^6$$
$$+ 2160\, a2\, b1^8\, c1^6\, c2 - 16092\, a2\, b1^8\, c1^4\, c2^3 + 284148\, a2\, b1^8\, c1^2\, c2^5$$
$$- 89168\, a2\, b1^8\, c2^7 + 11664\, a2\, b1^7\, b2^5\, c1^3 + 52488\, a2\, b1^7\, b2^5\, c1\, c2^2$$

$$+ 139968\, a2\, b1^7\, b2^4\, c1^3\, c2 - 17496\, a2\, b1^7\, b2^4\, c1\, c2^3 + 28728\, a2\, b1^7\, b2^3\, c1^5$$
$$- 436752\, a2\, b1^7\, b2^3\, c1^3\, c2^2 - 650376\, a2\, b1^7\, b2^3\, c1\, c2^4 + 87480\, a2\, b1^7\, b2^2\, c1^5\, c2$$
$$- 1823472\, a2\, b1^7\, b2^2\, c1^3\, c2^3 + 266328\, a2\, b1^7\, b2^2\, c1\, c2^5 - 2160\, a2\, b1^7\, b2\, c1^7$$
$$+ 61236\, a2\, b1^7\, b2\, c1^5\, c2^2 - 1468152\, a2\, b1^7\, b2\, c1^3\, c2^4 + 1082852\, a2\, b1^7\, b2\, c1\, c2^6$$
$$- 2160\, a2\, b1^7\, c1^7\, c2 + 16092\, a2\, b1^7\, c1^5\, c2^3 - 267192\, a2\, b1^7\, c1^3\, c2^5$$
$$- 20452\, a2\, b1^7\, c1\, c2^7 - 52488\, a2\, b1^6\, b2^6\, c1^2\, c2 - 11664\, a2\, b1^6\, b2^6\, c2^3$$
$$- 49572\, a2\, b1^6\, b2^5\, c1^4 - 104976\, a2\, b1^6\, b2^5\, c1^2\, c2^2 + 26244\, a2\, b1^6\, b2^5\, c2^4$$
$$+ 77328\, a2\, b1^6\, b2^4\, c1^4\, c2 + 1337904\, a2\, b1^6\, b2^4\, c1^2\, c2^3 + 47952\, a2\, b1^6\, b2^4\, c2^5$$
$$- 27000\, a2\, b1^6\, b2^3\, c1^6 + 1696248\, a2\, b1^6\, b2^3\, c1^4\, c2^2 + 295704\, a2\, b1^6\, b2^3\, c1^2\, c2^4$$
$$- 109080\, a2\, b1^6\, b2^3\, c2^6 - 61236\, a2\, b1^6\, b2^2\, c1^6\, c2 + 2999160\, a2\, b1^6\, b2^2\, c1^4\, c2^3$$
$$- 4101972\, a2\, b1^6\, b2^2\, c1^2\, c2^5 + 174528\, a2\, b1^6\, b2^2\, c2^7 + 2160\, a2\, b1^6\, b2\, c1^8$$
$$- 61236\, a2\, b1^6\, b2\, c1^6\, c2^2 + 1417284\, a2\, b1^6\, b2\, c1^4\, c2^4 - 483884\, a2\, b1^6\, b2\, c1^2\, c2^6$$
$$- 109620\, a2\, b1^6\, b2\, c2^8 + 1080\, a2\, b1^6\, c1^8\, c2 - 27000\, a2\, b1^6\, c1^6\, c2^3$$
$$+ 109836\, a2\, b1^6\, c1^4\, c2^5 + 210816\, a2\, b1^6\, c1^2\, c2^7 + 72900\, a2\, b1^6\, c2^9$$
$$+ 17496\, a2\, b1^5\, b2^7\, c1^3 + 34992\, a2\, b1^5\, b2^7\, c1\, c2^2 + 157464\, a2\, b1^5\, b2^6\, c1^3\, c2$$
$$- 46656\, a2\, b1^5\, b2^6\, c1\, c2^3 + 23976\, a2\, b1^5\, b2^5\, c1^5 - 1200096\, a2\, b1^5\, b2^5\, c1^3\, c2^2$$
$$- 335016\, a2\, b1^5\, b2^5\, c1\, c2^4 - 721872\, a2\, b1^5\, b2^4\, c1^5\, c2 - 1733616\, a2\, b1^5\, b2^4\, c1^3\, c2^3$$
$$+ 491184\, a2\, b1^5\, b2^4\, c1\, c2^5 + 16092\, a2\, b1^5\, b2^3\, c1^7 - 2965248\, a2\, b1^5\, b2^3\, c1^5\, c2^2$$
$$+ 7288924\, a2\, b1^5\, b2^3\, c1^3\, c2^4 - 776520\, a2\, b1^5\, b2^3\, c1\, c2^6 + 61236\, a2\, b1^5\, b2^2\, c1^7\, c2$$
$$- 2965248\, a2\, b1^5\, b2^2\, c1^5\, c2^3 + 2962788\, a2\, b1^5\, b2^2\, c1^3\, c2^5 + 424440\, a2\, b1^5\, b2^2\, c1\, c2^7$$
$$- 1080\, a2\, b1^5\, b2\, c1^9 + 87480\, a2\, b1^5\, b2\, c1^7\, c2^2 - 721872\, a2\, b1^5\, b2\, c1^5\, c2^4$$
$$- 1145448\, a2\, b1^5\, b2\, c1^3\, c2^6 - 335016\, a2\, b1^5\, b2\, c1\, c2^8 - 216\, a2\, b1^5\, c1^9\, c2$$
$$+ 28728\, a2\, b1^5\, c1^7\, c2^3 + 23976\, a2\, b1^5\, c1^5\, c2^5 - 39096\, a2\, b1^5\, c1^3\, c2^7$$
$$- 34128\, a2\, b1^5\, c1\, c2^9 - 34992\, a2\, b1^4\, b2^8\, c1^2\, c2 - 2916\, a2\, b1^4\, b2^8\, c2^3$$
$$- 61236\, a2\, b1^4\, b2^7\, c1^4 - 17496\, a2\, b1^4\, b2^7\, c1^2\, c2^2 + 8748\, a2\, b1^4\, b2^7\, c2^4$$
$$+ 441504\, a2\, b1^4\, b2^6\, c1^4\, c2 + 761184\, a2\, b1^4\, b2^6\, c1^2\, c2^3 - 3888\, a2\, b1^4\, b2^6\, c2^5$$
$$+ 109836\, a2\, b1^4\, b2^5\, c1^6 + 2206764\, a2\, b1^4\, b2^5\, c1^4\, c2^2 - 735156\, a2\, b1^4\, b2^5\, c1^2\, c2^4$$
$$- 10692\, a2\, b1^4\, b2^5\, c2^6 + 1417284\, a2\, b1^4\, b2^4\, c1^6\, c2 - 6639088\, a2\, b1^4\, b2^4\, c1^4\, c2^3$$
$$+ 1219212\, a2\, b1^4\, b2^4\, c1^2\, c2^5 + 864\, a2\, b1^4\, b2^4\, c2^7 - 16092\, a2\, b1^4\, b2^3\, c1^8$$
$$+ 2999160\, a2\, b1^4\, b2^3\, c1^6\, c2^2 - 6639088\, a2\, b1^4\, b2^3\, c1^4\, c2^4 - 362664\, a2\, b1^4\, b2^3\, c1^2\, c2^6$$
$$+ 16956\, a2\, b1^4\, b2^3\, c2^8 - 87480\, a2\, b1^4\, b2^2\, c1^8\, c2 + 1696248\, a2\, b1^4\, b2^2\, c1^6\, c2^3$$
$$+ 2206764\, a2\, b1^4\, b2^2\, c1^4\, c2^5 + 387504\, a2\, b1^4\, b2^2\, c1^2\, c2^7 - 35532\, a2\, b1^4\, b2^2\, c2^9$$
$$+ 216\, a2\, b1^4\, b2\, c1^{10} - 87480\, a2\, b1^4\, b2\, c1^8\, c2^2 + 77328\, a2\, b1^4\, b2\, c1^6\, c2^4$$
$$+ 441504\, a2\, b1^4\, b2\, c1^4\, c2^6 + 300024\, a2\, b1^4\, b2\, c1^2\, c2^8 + 23544\, a2\, b1^4\, b2\, c2^{10}$$

$$- 14580\, a2\, b1^4\, c1^8\, c2^3 - 49572\, a2\, b1^4\, c1^6\, c2^5 - 61236\, a2\, b1^4\, c1^4\, c2^7$$
$$- 32076\, a2\, b1^4\, c1^2\, c2^9 - 5832\, a2\, b1^4\, c2^{11} + 11664\, a2\, b1^3\, b2^9\, c1^3$$
$$+ 8748\, a2\, b1^3\, b2^9\, c1\, c2^2 + 69984\, a2\, b1^3\, b2^8\, c1^3\, c2 - 20412\, a2\, b1^3\, b2^8\, c1\, c2^3$$
$$- 39096\, a2\, b1^3\, b2^7\, c1^5 - 740016\, a2\, b1^3\, b2^7\, c1^3\, c2^2 - 7992\, a2\, b1^3\, b2^7\, c1\, c2^4$$
$$- 1145448\, a2\, b1^3\, b2^6\, c1^5\, c2 + 227664\, a2\, b1^3\, b2^6\, c1^3\, c2^3 + 54648\, a2\, b1^3\, b2^6\, c1\, c2^5$$
$$- 267192\, a2\, b1^3\, b2^5\, c1^7 + 2962788\, a2\, b1^3\, b2^5\, c1^5\, c2^2 - 569376\, a2\, b1^3\, b2^5\, c1^3\, c2^4$$
$$- 6588\, a2\, b1^3\, b2^5\, c1\, c2^6 - 1468152\, a2\, b1^3\, b2^4\, c1^7\, c2 + 7288924\, a2\, b1^3\, b2^4\, c1^5\, c2^3$$
$$- 569376\, a2\, b1^3\, b2^4\, c1^3\, c2^5 - 51732\, a2\, b1^3\, b2^4\, c1\, c2^7 + 27000\, a2\, b1^3\, b2^3\, c1^9$$
$$- 1823472\, a2\, b1^3\, b2^3\, c1^7\, c2^2 - 1733616\, a2\, b1^3\, b2^3\, c1^5\, c2^4 + 227664\, a2\, b1^3\, b2^3\, c1^3\, c2^6$$
$$+ 110808\, a2\, b1^3\, b2^3\, c1\, c2^8 + 87480\, a2\, b1^3\, b2^2\, c1^9\, c2 - 436752\, a2\, b1^3\, b2^2\, c1^7\, c2^3$$
$$- 1200096\, a2\, b1^3\, b2^2\, c1^5\, c2^5 - 740016\, a2\, b1^3\, b2^2\, c1^3\, c2^7 - 64152\, a2\, b1^3\, b2^2\, c1\, c2^9$$
$$+ 43740\, a2\, b1^3\, b2\, c1^9\, c2^2 + 139968\, a2\, b1^3\, b2\, c1^7\, c2^4 + 157464\, a2\, b1^3\, b2\, c1^5\, c2^6$$
$$+ 69984\, a2\, b1^3\, b2\, c1^3\, c2^8 + 8748\, a2\, b1^3\, b2\, c1\, c2^{10} + 2916\, a2\, b1^3\, c1^9\, c2^3$$
$$+ 11664\, a2\, b1^3\, c1^7\, c2^5 + 17496\, a2\, b1^3\, c1^5\, c2^7 + 11664\, a2\, b1^3\, c1^3\, c2^9$$
$$+ 2916\, a2\, b1^3\, c1\, c2^{11} - 8748\, a2\, b1^2\, b2^{10}\, c1^2\, c2 - 32076\, a2\, b1^2\, b2^9\, c1^4$$
$$+ 8748\, a2\, b1^2\, b2^9\, c1^2\, c2^2 + 300024\, a2\, b1^2\, b2^8\, c1^4\, c2 + 52488\, a2\, b1^2\, b2^8\, c1^2\, c2^3$$
$$+ 648\, a2\, b1^2\, b2^8\, c2^5 + 210816\, a2\, b1^2\, b2^7\, c1^6 + 387504\, a2\, b1^2\, b2^7\, c1^4\, c2^2$$
$$- 119232\, a2\, b1^2\, b2^7\, c1^2\, c2^4 - 2160\, a2\, b1^2\, b2^7\, c2^6 - 483884\, a2\, b1^2\, b2^6\, c1^6\, c2$$
$$- 362664\, a2\, b1^2\, b2^6\, c1^4\, c2^3 + 40500\, a2\, b1^2\, b2^6\, c1^2\, c2^5 + 2160\, a2\, b1^2\, b2^6\, c2^7$$
$$+ 284148\, a2\, b1^2\, b2^5\, c1^8 - 4101972\, a2\, b1^2\, b2^5\, c1^6\, c2^2 + 1219212\, a2\, b1^2\, b2^5\, c1^4\, c2^4$$
$$+ 40500\, a2\, b1^2\, b2^5\, c1^2\, c2^6 + 912708\, a2\, b1^2\, b2^4\, c1^8\, c2 + 295704\, a2\, b1^2\, b2^4\, c1^6\, c2^3$$
$$- 735156\, a2\, b1^2\, b2^4\, c1^4\, c2^5 - 119232\, a2\, b1^2\, b2^4\, c1^2\, c2^7 - 1080\, a2\, b1^2\, b2^4\, c2^9$$
$$- 28728\, a2\, b1^2\, b2^3\, c1^{10} + 600048\, a2\, b1^2\, b2^3\, c1^8\, c2^2 + 1337904\, a2\, b1^2\, b2^3\, c1^6\, c2^4$$
$$+ 761184\, a2\, b1^2\, b2^3\, c1^4\, c2^6 + 52488\, a2\, b1^2\, b2^3\, c1^2\, c2^8 + 432\, a2\, b1^2\, b2^3\, c2^{10}$$
$$- 43740\, a2\, b1^2\, b2^2\, c1^{10}\, c2 - 122472\, a2\, b1^2\, b2^2\, c1^8\, c2^3 - 104976\, a2\, b1^2\, b2^2\, c1^6\, c2^5$$
$$- 17496\, a2\, b1^2\, b2^2\, c1^4\, c2^7 + 8748\, a2\, b1^2\, b2^2\, c1^2\, c2^9 - 8748\, a2\, b1^2\, b2\, c1^{10}\, c2^2$$
$$- 34992\, a2\, b1^2\, b2\, c1^8\, c2^4 - 52488\, a2\, b1^2\, b2\, c1^6\, c2^6 - 34992\, a2\, b1^2\, b2\, c1^4\, c2^8$$
$$- 8748\, a2\, b1^2\, b2\, c1^2\, c2^{10} + 2916\, a2\, b1\, b2^{11}\, c1^3 + 8748\, a2\, b1\, b2^{10}\, c1^3\, c2$$
$$- 34128\, a2\, b1\, b2^9\, c1^5 - 64152\, a2\, b1\, b2^9\, c1^3\, c2^2 - 1080\, a2\, b1\, b2^9\, c1\, c2^4$$
$$- 335016\, a2\, b1\, b2^8\, c1^5\, c2 + 110808\, a2\, b1\, b2^8\, c1^3\, c2^3 + 3240\, a2\, b1\, b2^8\, c1\, c2^5$$
$$- 20452\, a2\, b1\, b2^7\, c1^7 + 424440\, a2\, b1\, b2^7\, c1^5\, c2^2 - 51732\, a2\, b1\, b2^7\, c1^3\, c2^4$$
$$- 2160\, a2\, b1\, b2^7\, c1\, c2^6 + 1082852\, a2\, b1\, b2^6\, c1^7\, c2 - 776520\, a2\, b1\, b2^6\, c1^5\, c2^3$$
$$- 6588\, a2\, b1\, b2^6\, c1^3\, c2^5 - 2160\, a2\, b1\, b2^6\, c1\, c2^7 - 173448\, a2\, b1\, b2^5\, c1^9$$
$$+ 266328\, a2\, b1\, b2^5\, c1^7\, c2^2 + 491184\, a2\, b1\, b2^5\, c1^5\, c2^4 + 54648\, a2\, b1\, b2^5\, c1^3\, c2^6$$

$$+ 3240\, a2\, b1\, b2^5\, c1\, c2^8 - 322272\, a2\, b1\, b2^4\, c1^9\, c2 - 650376\, a2\, b1\, b2^4\, c1^7\, c2^3$$
$$- 335016\, a2\, b1\, b2^4\, c1^5\, c2^5 - 7992\, a2\, b1\, b2^4\, c1^3\, c2^7 - 1080\, a2\, b1\, b2^4\, c1\, c2^9$$
$$+ 14580\, a2\, b1\, b2^3\, c1^{11} + 23328\, a2\, b1\, b2^3\, c1^9\, c2^2 - 17496\, a2\, b1\, b2^3\, c1^7\, c2^4$$
$$- 46656\, a2\, b1\, b2^3\, c1^5\, c2^6 - 20412\, a2\, b1\, b2^3\, c1^3\, c2^8 + 8748\, a2\, b1\, b2^2\, c1^{11}\, c2$$
$$+ 34992\, a2\, b1\, b2^2\, c1^9\, c2^3 + 52488\, a2\, b1\, b2^2\, c1^7\, c2^5 + 34992\, a2\, b1\, b2^2\, c1^5\, c2^7$$
$$+ 8748\, a2\, b1\, b2^2\, c1^3\, c2^9 - 5832\, a2\, b2^{11}\, c1^4 + 23544\, a2\, b2^{10}\, c1^4\, c2$$
$$+ 432\, a2\, b2^{10}\, c1^2\, c2^3 + 72900\, a2\, b2^9\, c1^6 - 35532\, a2\, b2^9\, c1^4\, c2^2 - 1080\, a2\, b2^9\, c1^2\, c2^4$$
$$- 109620\, a2\, b2^8\, c1^6\, c2 + 16956\, a2\, b2^8\, c1^4\, c2^3 - 89168\, a2\, b2^7\, c1^8$$
$$+ 174528\, a2\, b2^7\, c1^6\, c2^2 + 864\, a2\, b2^7\, c1^4\, c2^4 + 2160\, a2\, b2^7\, c1^2\, c2^6$$
$$- 100548\, a2\, b2^6\, c1^8\, c2 - 109080\, a2\, b2^6\, c1^6\, c2^3 - 10692\, a2\, b2^6\, c1^4\, c2^5$$
$$- 2160\, a2\, b2^6\, c1^2\, c2^7 + 57672\, a2\, b2^5\, c1^{10} + 110160\, a2\, b2^5\, c1^8\, c2^2$$
$$+ 47952\, a2\, b2^5\, c1^6\, c2^4 - 3888\, a2\, b2^5\, c1^4\, c2^6 + 648\, a2\, b2^5\, c1^2\, c2^8$$
$$+ 8748\, a2\, b2^4\, c1^{10}\, c2 + 26244\, a2\, b2^4\, c1^8\, c2^3 + 26244\, a2\, b2^4\, c1^6\, c2^5$$
$$+ 8748\, a2\, b2^4\, c1^4\, c2^7 - 2916\, a2\, b2^3\, c1^{12} - 11664\, a2\, b2^3\, c1^{10}\, c2^2$$
$$- 17496\, a2\, b2^3\, c1^8\, c2^4 - 11664\, a2\, b2^3\, c1^6\, c2^6 - 2916\, a2\, b2^3\, c1^4\, c2^8 + 729\, b1^{12}\, c2^4$$
$$- 2916\, b1^{11}\, b2\, c1\, c2^3 - 2916\, b1^{11}\, c1\, c2^4 + 4374\, b1^{10}\, b2^2\, c1^2\, c2^2 + 2916\, b1^{10}\, b2^2\, c2^4$$
$$+ 11664\, b1^{10}\, b2\, c1^2\, c2^3 - 2916\, b1^{10}\, b2\, c2^5 - 108\, b1^{10}\, c1^4\, c2^2 + 4266\, b1^{10}\, c1^2\, c2^4$$
$$- 9126\, b1^{10}\, c2^6 - 2916\, b1^9\, b2^3\, c1^3\, c2 - 11664\, b1^9\, b2^3\, c1\, c2^3 - 17496\, b1^9\, b2^2\, c1^3\, c2^2$$
$$+ 2916\, b1^9\, b2^2\, c1\, c2^4 + 216\, b1^9\, b2\, c1^5\, c2 - 17496\, b1^9\, b2\, c1^3\, c2^3$$
$$+ 63288\, b1^9\, b2\, c1\, c2^5 + 432\, b1^9\, c1^5\, c2^2 - 2376\, b1^9\, c1^3\, c2^4 + 18360\, b1^9\, c1\, c2^6$$
$$+ 729\, b1^8\, b2^4\, c1^4 + 17496\, b1^8\, b2^4\, c1^2\, c2^2 + 4374\, b1^8\, b2^4\, c2^4 + 11664\, b1^8\, b2^3\, c1^4\, c2$$
$$+ 17496\, b1^8\, b2^3\, c1^2\, c2^3 - 8748\, b1^8\, b2^3\, c2^5 - 108\, b1^8\, b2^2\, c1^6 + 26244\, b1^8\, b2^2\, c1^4\, c2^2$$
$$- 163134\, b1^8\, b2^2\, c1^2\, c2^4 - 13986\, b1^8\, b2^2\, c2^6 - 864\, b1^8\, b2\, c1^6\, c2$$
$$+ 11664\, b1^8\, b2\, c1^4\, c2^3 - 117288\, b1^8\, b2\, c1^2\, c2^5 + 18360\, b1^8\, b2\, c2^7 - 648\, b1^8\, c1^6\, c2^2$$
$$+ 1107\, b1^8\, c1^4\, c2^4 - 27810\, b1^8\, c1^2\, c2^6 + 8851\, b1^8\, c2^8 - 11664\, b1^7\, b2^5\, c1^3\, c2$$
$$- 17496\, b1^7\, b2^5\, c1\, c2^3 - 2916\, b1^7\, b2^4\, c1^5 - 40824\, b1^7\, b2^4\, c1^3\, c2^2$$
$$+ 26244\, b1^7\, b2^4\, c1\, c2^4 - 17064\, b1^7\, b2^3\, c1^5\, c2 + 200016\, b1^7\, b2^3\, c1^3\, c2^3$$
$$+ 109080\, b1^7\, b2^3\, c1\, c2^5 + 432\, b1^7\, b2^2\, c1^7 - 18144\, b1^7\, b2^2\, c1^5\, c2^2$$
$$+ 305856\, b1^7\, b2^2\, c1^3\, c2^4 - 98928\, b1^7\, b2^2\, c1\, c2^6 + 1296\, b1^7\, b2\, c1^7\, c2$$
$$- 8316\, b1^7\, b2\, c1^5\, c2^3 + 171288\, b1^7\, b2\, c1^3\, c2^5 - 126428\, b1^7\, b2\, c1\, c2^7$$
$$+ 432\, b1^7\, c1^7\, c2^2 - 1944\, b1^7\, c1^5\, c2^4 + 15984\, b1^7\, c1^3\, c2^6 + 18360\, b1^7\, c1\, c2^8$$
$$+ 2916\, b1^6\, b2^6\, c1^4 + 26244\, b1^6\, b2^6\, c1^2\, c2^2 + 2916\, b1^6\, b2^6\, c2^4 + 32076\, b1^6\, b2^5\, c1^4\, c2$$
$$- 17496\, b1^6\, b2^5\, c1^2\, c2^3 - 8748\, b1^6\, b2^5\, c2^5 + 4050\, b1^6\, b2^4\, c1^6$$
$$- 118854\, b1^6\, b2^4\, c1^4\, c2^2 - 312606\, b1^6\, b2^4\, c1^2\, c2^4 - 702\, b1^6\, b2^4\, c2^6$$

$$+ 10800\, b1^6\, b2^3\, c1^6\, c2 - 406944\, b1^6\, b2^3\, c1^4\, c2^3 + 190944\, b1^6\, b2^3\, c1^2\, c2^5$$
$$+ 15984\, b1^6\, b2^3\, c2^7 - 648\, b1^6\, b2^2\, c1^8 + 14418\, b1^6\, b2^2\, c1^6\, c2^2$$
$$- 444582\, b1^6\, b2^2\, c1^4\, c2^4 + 588190\, b1^6\, b2^2\, c1^2\, c2^6 - 27810\, b1^6\, b2^2\, c2^8$$
$$- 864\, b1^6\, b2\, c1^8\, c2 + 10800\, b1^6\, b2\, c1^6\, c2^3 - 105624\, b1^6\, b2\, c1^4\, c2^5$$
$$- 98928\, b1^6\, b2\, c1^2\, c2^7 + 18360\, b1^6\, b2\, c2^9 - 108\, b1^6\, c1^8\, c2^2 + 4050\, b1^6\, c1^6\, c2^4$$
$$- 702\, b1^6\, c1^4\, c2^6 - 13986\, b1^6\, c1^2\, c2^8 - 9126\, b1^6\, c2^{10} - 17496\, b1^5\, b2^7\, c1^3\, c2$$
$$- 11664\, b1^5\, b2^7\, c1\, c2^3 - 8748\, b1^5\, b2^6\, c1^5 - 17496\, b1^5\, b2^6\, c1^3\, c2^2$$
$$+ 32076\, b1^5\, b2^6\, c1\, c2^4 + 28512\, b1^5\, b2^5\, c1^5\, c2 + 435024\, b1^5\, b2^5\, c1^3\, c2^3$$
$$+ 28512\, b1^5\, b2^5\, c1\, c2^5 - 1944\, b1^5\, b2^4\, c1^7 + 289656\, b1^5\, b2^4\, c1^5\, c2^2$$
$$- 110376\, b1^5\, b2^4\, c1^3\, c2^4 - 105624\, b1^5\, b2^4\, c1\, c2^6 - 8316\, b1^5\, b2^3\, c1^7\, c2$$
$$+ 602208\, b1^5\, b2^3\, c1^5\, c2^3 - 1369484\, b1^5\, b2^3\, c1^3\, c2^5 + 171288\, b1^5\, b2^3\, c1\, c2^7$$
$$+ 432\, b1^5\, b2^2\, c1^9 - 18144\, b1^5\, b2^2\, c1^7\, c2^2 + 289656\, b1^5\, b2^2\, c1^5\, c2^4$$
$$+ 190944\, b1^5\, b2^2\, c1^3\, c2^6 - 117288\, b1^5\, b2^2\, c1\, c2^8 + 216\, b1^5\, b2\, c1^9\, c2$$
$$- 17064\, b1^5\, b2\, c1^7\, c2^3 + 28512\, b1^5\, b2\, c1^5\, c2^5 + 109080\, b1^5\, b2\, c1^3\, c2^7$$
$$+ 63288\, b1^5\, b2\, c1\, c2^9 - 2916\, b1^5\, c1^7\, c2^4 - 8748\, b1^5\, c1^5\, c2^6 - 8748\, b1^5\, c1^3\, c2^8$$
$$- 2916\, b1^5\, c1\, c2^{10} + 4374\, b1^4\, b2^8\, c1^4 + 17496\, b1^4\, b2^8\, c1^2\, c2^2 + 729\, b1^4\, b2^8\, c2^4$$
$$+ 26244\, b1^4\, b2^7\, c1^4\, c2 - 40824\, b1^4\, b2^7\, c1^2\, c2^3 - 2916\, b1^4\, b2^7\, c2^5 - 702\, b1^4\, b2^6\, c1^6$$
$$- 312606\, b1^4\, b2^6\, c1^4\, c2^2 - 118854\, b1^4\, b2^6\, c1^2\, c2^4 + 4050\, b1^4\, b2^6\, c2^6$$
$$- 105624\, b1^4\, b2^5\, c1^6\, c2 - 110376\, b1^4\, b2^5\, c1^4\, c2^3 + 289656\, b1^4\, b2^5\, c1^2\, c2^5$$
$$- 1944\, b1^4\, b2^5\, c2^7 + 1107\, b1^4\, b2^4\, c1^8 - 444582\, b1^4\, b2^4\, c1^6\, c2^2$$
$$+ 1797742\, b1^4\, b2^4\, c1^4\, c2^4 - 444582\, b1^4\, b2^4\, c1^2\, c2^6 + 1107\, b1^4\, b2^4\, c2^8$$
$$+ 11664\, b1^4\, b2^3\, c1^8\, c2 - 406944\, b1^4\, b2^3\, c1^6\, c2^3 - 110376\, b1^4\, b2^3\, c1^4\, c2^5$$
$$+ 305856\, b1^4\, b2^3\, c1^2\, c2^7 - 2376\, b1^4\, b2^3\, c2^9 - 108\, b1^4\, b2^2\, c1^{10} + 26244\, b1^4\, b2^2\, c1^8\, c2^2$$
$$- 118854\, b1^4\, b2^2\, c1^6\, c2^4 - 312606\, b1^4\, b2^2\, c1^4\, c2^6 - 163134\, b1^4\, b2^2\, c1^2\, c2^8$$
$$+ 4266\, b1^4\, b2^2\, c2^{10} + 11664\, b1^4\, b2\, c1^8\, c2^3 + 32076\, b1^4\, b2\, c1^6\, c2^5$$
$$+ 26244\, b1^4\, b2\, c1^4\, c2^7 + 2916\, b1^4\, b2\, c1^2\, c2^9 - 2916\, b1^4\, b2\, c2^{11} + 729\, b1^4\, c1^8\, c2^4$$
$$+ 2916\, b1^4\, c1^6\, c2^6 + 4374\, b1^4\, c1^4\, c2^8 + 2916\, b1^4\, c1^2\, c2^{10} + 729\, b1^4\, c2^{12}$$
$$- 11664\, b1^3\, b2^9\, c1^3\, c2 - 2916\, b1^3\, b2^9\, c1\, c2^3 - 8748\, b1^3\, b2^8\, c1^5$$
$$+ 17496\, b1^3\, b2^8\, c1^3\, c2^2 + 11664\, b1^3\, b2^8\, c1\, c2^4 + 109080\, b1^3\, b2^7\, c1^5\, c2$$
$$+ 200016\, b1^3\, b2^7\, c1^3\, c2^3 - 17064\, b1^3\, b2^7\, c1\, c2^5 + 15984\, b1^3\, b2^6\, c1^7$$
$$+ 190944\, b1^3\, b2^6\, c1^5\, c2^2 - 406944\, b1^3\, b2^6\, c1^3\, c2^4 + 10800\, b1^3\, b2^6\, c1\, c2^6$$
$$+ 171288\, b1^3\, b2^5\, c1^7\, c2 - 1369484\, b1^3\, b2^5\, c1^5\, c2^3 + 602208\, b1^3\, b2^5\, c1^3\, c2^5$$
$$- 8316\, b1^3\, b2^5\, c1\, c2^7 - 2376\, b1^3\, b2^4\, c1^9 + 305856\, b1^3\, b2^4\, c1^7\, c2^2$$
$$- 110376\, b1^3\, b2^4\, c1^5\, c2^4 - 406944\, b1^3\, b2^4\, c1^3\, c2^6 + 11664\, b1^3\, b2^4\, c1\, c2^8$$

$$- 17496\, b1^3\, b2^3\, c1^9\, c2 + 200016\, b1^3\, b2^3\, c1^7\, c2^3 + 435024\, b1^3\, b2^3\, c1^5\, c2^5$$
$$+ 200016\, b1^3\, b2^3\, c1^3\, c2^7 - 17496\, b1^3\, b2^3\, c1\, c2^9 - 17496\, b1^3\, b2^2\, c1^9\, c2^2$$
$$- 40824\, b1^3\, b2^2\, c1^7\, c2^4 - 17496\, b1^3\, b2^2\, c1^5\, c2^6 + 17496\, b1^3\, b2^2\, c1^3\, c2^8$$
$$+ 11664\, b1^3\, b2^2\, c1\, c2^{10} - 2916\, b1^3\, b2\, c1^9\, c2^3 - 11664\, b1^3\, b2\, c1^7\, c2^5$$
$$- 17496\, b1^3\, b2\, c1^5\, c2^7 - 11664\, b1^3\, b2\, c1^3\, c2^9 - 2916\, b1^3\, b2\, c1\, c2^{11}$$
$$+ 2916\, b1^2\, b2^{10}\, c1^4 + 4374\, b1^2\, b2^{10}\, c1^2\, c2^2 + 2916\, b1^2\, b2^9\, c1^4\, c2$$
$$- 17496\, b1^2\, b2^9\, c1^2\, c2^3 - 13986\, b1^2\, b2^8\, c1^6 - 163134\, b1^2\, b2^8\, c1^4\, c2^2$$
$$+ 26244\, b1^2\, b2^8\, c1^2\, c2^4 - 108\, b1^2\, b2^8\, c2^6 - 98928\, b1^2\, b2^7\, c1^6\, c2$$
$$+ 305856\, b1^2\, b2^7\, c1^4\, c2^3 - 18144\, b1^2\, b2^7\, c1^2\, c2^5 + 432\, b1^2\, b2^7\, c2^7$$
$$- 27810\, b1^2\, b2^6\, c1^8 + 588190\, b1^2\, b2^6\, c1^6\, c2^2 - 444582\, b1^2\, b2^6\, c1^4\, c2^4$$
$$+ 14418\, b1^2\, b2^6\, c1^2\, c2^6 - 648\, b1^2\, b2^6\, c2^8 - 117288\, b1^2\, b2^5\, c1^8\, c2$$
$$+ 190944\, b1^2\, b2^5\, c1^6\, c2^3 + 289656\, b1^2\, b2^5\, c1^4\, c2^5 - 18144\, b1^2\, b2^5\, c1^2\, c2^7$$
$$+ 432\, b1^2\, b2^5\, c2^9 + 4266\, b1^2\, b2^4\, c1^{10} - 163134\, b1^2\, b2^4\, c1^8\, c2^2$$
$$- 312606\, b1^2\, b2^4\, c1^6\, c2^4 - 118854\, b1^2\, b2^4\, c1^4\, c2^6 + 26244\, b1^2\, b2^4\, c1^2\, c2^8$$
$$- 108\, b1^2\, b2^4\, c2^{10} + 11664\, b1^2\, b2^3\, c1^{10}\, c2 + 17496\, b1^2\, b2^3\, c1^8\, c2^3$$
$$- 17496\, b1^2\, b2^3\, c1^6\, c2^5 - 40824\, b1^2\, b2^3\, c1^4\, c2^7 - 17496\, b1^2\, b2^3\, c1^2\, c2^9$$
$$+ 4374\, b1^2\, b2^2\, c1^{10}\, c2^2 + 17496\, b1^2\, b2^2\, c1^8\, c2^4 + 26244\, b1^2\, b2^2\, c1^6\, c2^6$$
$$+ 17496\, b1^2\, b2^2\, c1^4\, c2^8 + 4374\, b1^2\, b2^2\, c1^2\, c2^{10} - 2916\, b1\, b2^{11}\, c1^3\, c2$$
$$- 2916\, b1\, b2^{10}\, c1^5 + 11664\, b1\, b2^{10}\, c1^3\, c2^2 + 63288\, b1\, b2^9\, c1^5\, c2$$
$$- 17496\, b1\, b2^9\, c1^3\, c2^3 + 216\, b1\, b2^9\, c1\, c2^5 + 18360\, b1\, b2^8\, c1^7 - 117288\, b1\, b2^8\, c1^5\, c2^2$$
$$+ 11664\, b1\, b2^8\, c1^3\, c2^4 - 864\, b1\, b2^8\, c1\, c2^6 - 126428\, b1\, b2^7\, c1^7\, c2$$
$$+ 171288\, b1\, b2^7\, c1^5\, c2^3 - 8316\, b1\, b2^7\, c1^3\, c2^5 + 1296\, b1\, b2^7\, c1\, c2^7 + 18360\, b1\, b2^6\, c1^9$$
$$- 98928\, b1\, b2^6\, c1^7\, c2^2 - 105624\, b1\, b2^6\, c1^5\, c2^4 + 10800\, b1\, b2^6\, c1^3\, c2^6$$
$$- 864\, b1\, b2^6\, c1\, c2^8 + 63288\, b1\, b2^5\, c1^9\, c2 + 109080\, b1\, b2^5\, c1^7\, c2^3$$
$$+ 28512\, b1\, b2^5\, c1^5\, c2^5 - 17064\, b1\, b2^5\, c1^3\, c2^7 + 216\, b1\, b2^5\, c1\, c2^9 - 2916\, b1\, b2^4\, c1^{11}$$
$$+ 2916\, b1\, b2^4\, c1^9\, c2^2 + 26244\, b1\, b2^4\, c1^7\, c2^4 + 32076\, b1\, b2^4\, c1^5\, c2^6$$
$$+ 11664\, b1\, b2^4\, c1^3\, c2^8 - 2916\, b1\, b2^3\, c1^{11}\, c2 - 11664\, b1\, b2^3\, c1^9\, c2^3$$
$$- 17496\, b1\, b2^3\, c1^7\, c2^5 - 11664\, b1\, b2^3\, c1^5\, c2^7 - 2916\, b1\, b2^3\, c1^3\, c2^9 + 729\, b2^{12}\, c1^4$$
$$- 2916\, b2^{11}\, c1^4\, c2 - 9126\, b2^{10}\, c1^6 + 4266\, b2^{10}\, c1^4\, c2^2 - 108\, b2^{10}\, c1^2\, c2^4$$
$$+ 18360\, b2^9\, c1^6\, c2 - 2376\, b2^9\, c1^4\, c2^3 + 432\, b2^9\, c1^2\, c2^5 + 8851\, b2^8\, c1^8$$
$$- 27810\, b2^8\, c1^6\, c2^2 + 1107\, b2^8\, c1^4\, c2^4 - 648\, b2^8\, c1^2\, c2^6 + 18360\, b2^7\, c1^8\, c2$$
$$+ 15984\, b2^7\, c1^6\, c2^3 - 1944\, b2^7\, c1^4\, c2^5 + 432\, b2^7\, c1^2\, c2^7 - 9126\, b2^6\, c1^{10}$$
$$- 13986\, b2^6\, c1^8\, c2^2 - 702\, b2^6\, c1^6\, c2^4 + 4050\, b2^6\, c1^4\, c2^6 - 108\, b2^6\, c1^2\, c2^8$$
$$- 2916\, b2^5\, c1^{10}\, c2 - 8748\, b2^5\, c1^8\, c2^3 - 8748\, b2^5\, c1^6\, c2^5 - 2916\, b2^5\, c1^4\, c2^7$$

$$+ 729\, b2^4\, c1^{12} + 2916\, b2^4\, c1^{10}\, c2^2 + 4374\, b2^4\, c1^8\, c2^4 + 2916\, b2^4\, c1^6\, c2^6 + 729\, b2^4\, c1^4\, c2^8\rangle$$

$CD2 := Add(CS2, \langle f\rangle) : CF2 := EliminationIdeal(CD2, \{a1, a2, b1, b2, c1, c2\});$

[Largo de la salida excede el límite de 1000000] **(1.11)**

$CD3 := Add(CS3, \langle f\rangle) : CF3 := EliminationIdeal(CD3, \{a1, a2, b1, b2, c1, c2\});$

$$CF3 := \langle b1 - a1, b2 - a2, a1^4 - 4\, a1^3\, c1 + 2\, a1^2\, a2^2 - 4\, a1^2\, a2\, c2 + 6\, a1^2\, c1^2 + 2\, a1^2\, c2^2 - 4\, a1\, a2^2\, c1 + 8\, a1\, a2\, c1\, c2 - 4\, a1\, c1^3 - 4\, a1\, c1\, c2^2 + a2^4 - 4\, a2^3\, c2 + 2\, a2^2\, c1^2 + 6\, a2^2\, c2^2 - 4\, a2\, c1^2\, c2 - 4\, a2\, c2^3 + c1^4 + 2\, c1^2\, c2^2 + c2^4\rangle \quad \textbf{(1.12)}$$

$CD4 := Add(CS4, \langle f\rangle) : CF4 := EliminationIdeal(CD4, \{a1, a2, b1, b2, c1, c2\});$

$$CF4 := \langle b1 - a1, b2 - a2\rangle \quad \textbf{(1.13)}$$

We check now that in fact CF1=CF2 by proving that the only generator in CF1 and the only generator in CF2 do coincide, and also that CF1⊆CF4⊆CF3. The common generator of CF1 and CF2 is the big polynomial g mentioned in the article:

$g := op(1, CF1) : g1 := op(1, CF2) : g - g1;$

$$0 \quad \textbf{(1.14)}$$

$IdealContainment(CF1, CF4, CF3);$

$$true \quad \textbf{(1.15)}$$

The polynomial g has two factors

$factor(g);$

$$(729\, b2^2\, a1^{10} - 1458\, b2\, c2\, a1^{10} + 729\, c2^2\, a1^{10} - 1458\, a2\, b1\, b2\, a1^9 + 1458\, a2\, b1\, c2\, a1^9 + 1458\, a2\, b2\, c1\, a1^9 - 1458\, a2\, c1\, c2\, a1^9 - 2916\, b2^2\, b1\, a1^9 + 7290\, b1\, b2\, c2\, a1^9 - 4374\, b1\, c2^2\, a1^9 - 4374\, c1\, b2^2\, a1^9 + 7290\, b2\, c1\, c2\, a1^9 - 2916\, c1\, c2^2\, a1^9 + 729\, a2^2\, b1^2\, a1^8 - 1458\, a2^2\, b1\, c1\, a1^8 + 2916\, a2^2\, b2^2\, a1^8 - 5832\, a2^2\, b2\, c2\, a1^8 + 729\, a2^2\, c1^2\, a1^8 + 2916\, a2^2\, c2^2\, a1^8 + 5832\, a2\, b1^2\, b2\, a1^8 - 7290\, a2\, b1^2\, c2\, a1^8 + 1458\, a2\, b1\, b2\, c1\, a1^8 + 1458\, a2\, b1\, c1\, c2\, a1^8 - 2916\, a2\, b2^3\, a1^8 + 2916\, a2\, b2^2\, c2\, a1^8 - 7290\, a2\, b2\, c1^2\, a1^8 + 2916\, a2\, b2\, c2^2\, a1^8 + 5832\, a2\, c1^2\, c2\, a1^8 - 2916\, a2\, c2^3\, a1^8 - 108\, b1^4\, a1^8 + 432\, c1\, b1^3\, a1^8 + 4266\, b2^2\, b1^2\, a1^8 - 14364\, b2\, b1^2\, c2\, a1^8 - 648\, b1^2\, c1^2\, a1^8 + 10827\, b1^2\, c2^2\, a1^8 + 17712\, c1\, b2^2\, b1\, a1^8 - 36882\, b1\, b2\, c1\, c2\, a1^8 + 432\, c1^3\, b1\, a1^8 + 17712\, b1\, c1\, c2^2\, a1^8 - 9126\, b2^4\, a1^8 + 39420\, b2^3\, c2\, a1^8 \quad \textbf{(1.16)}$$

$$+ 10827\, b2^2\, c1^2\, a1^8 - 60588\, b2^2\, c2^2\, a1^8 - 14364\, c1^2\, b2\, c2\, a1^8 + 39420\, b2\, c2^3\, a1^8$$
$$- 108\, c1^4\, a1^8 + 4266\, c1^2\, c2^2\, a1^8 - 9126\, c2^4\, a1^8 - 5832\, a2^3\, b1\, b2\, a1^7$$
$$+ 5832\, a2^3\, b1\, c2\, a1^7 + 5832\, a2^3\, b2\, c1\, a1^7 - 5832\, a2^3\, c1\, c2\, a1^7 - 2916\, a2^2\, b1^3\, a1^7$$
$$+ 2916\, a2^2\, b1^2\, c1\, a1^7 - 2916\, a2^2\, b1\, b2^2\, a1^7 + 23328\, a2^2\, b1\, b2\, c2\, a1^7$$
$$+ 2916\, a2^2\, b1\, c1^2\, a1^7 - 20412\, a2^2\, b1\, c2^2\, a1^7 - 20412\, a2^2\, b2^2\, c1\, a1^7$$
$$+ 23328\, a2^2\, b2\, c1\, c2\, a1^7 - 2916\, a2^2\, c1^3\, a1^7 - 2916\, a2^2\, c1\, c2^2\, a1^7$$
$$- 8964\, a2\, b1^3\, b2\, a1^7 + 14796\, a2\, b1^3\, c2\, a1^7 - 19764\, a2\, b1^2\, b2\, c1\, a1^7$$
$$+ 13932\, a2\, b1^2\, c1\, c2\, a1^7 + 45036\, a2\, b1\, b2^3\, a1^7 - 129276\, a2\, b1\, b2^2\, c2\, a1^7$$
$$+ 13932\, a2\, b1\, b2\, c1^2\, a1^7 + 105948\, a2\, b1\, b2\, c2^2\, a1^7 - 19764\, a2\, b1\, c1^2\, c2\, a1^7$$
$$- 21708\, a2\, b1\, c2^3\, a1^7 - 21708\, a2\, b2^3\, c1\, a1^7 + 105948\, a2\, b2^2\, c1\, c2\, a1^7$$
$$+ 14796\, a2\, b2\, c1^3\, a1^7 - 129276\, a2\, b2\, c1\, c2^2\, a1^7 - 8964\, a2\, c1^3\, c2\, a1^7$$
$$+ 45036\, a2\, c1\, c2^3\, a1^7 + 432\, b1^5\, a1^7 - 1296\, c1\, b1^4\, a1^7 - 2376\, b2^2\, b1^3\, a1^7$$
$$+ 13716\, b2\, b1^3\, c2\, a1^7 + 864\, c1^2\, b1^3\, a1^7 - 14256\, b1^3\, c2^2\, a1^7 - 27000\, c1\, b2^2\, b1^2\, a1^7$$
$$+ 73764\, c1\, b2\, b1^2\, c2\, a1^7 + 864\, c1^3\, b1^2\, a1^7 - 43848\, b1^2\, c1\, c2^2\, a1^7 + 18360\, b1\, b2^4\, a1^7$$
$$- 118476\, b2^3\, b1\, c2\, a1^7 - 43848\, c1^2\, b2^2\, b1\, a1^7 + 242352\, b2^2\, b1\, c2^2\, a1^7$$
$$+ 73764\, c1^2\, b2\, b1\, c2\, a1^7 - 196884\, b1\, b2\, c2^3\, a1^7 - 1296\, c1^4\, b1\, a1^7$$
$$- 27000\, b1\, c1^2\, c2^2\, a1^7 + 54648\, b1\, c2^4\, a1^7 + 54648\, b2^4\, c1\, a1^7 - 196884\, c1\, b2^3\, c2\, a1^7$$
$$- 14256\, c1^3\, b2^2\, a1^7 + 242352\, c1\, b2^2\, c2^2\, a1^7 + 13716\, c1^3\, b2\, c2\, a1^7$$
$$- 118476\, b2\, c1\, c2^3\, a1^7 + 432\, c1^5\, a1^7 - 2376\, c1^3\, c2^2\, a1^7 + 18360\, c1\, c2^4\, a1^7$$
$$+ 2916\, a2^4\, b1^2\, a1^6 - 5832\, a2^4\, b1\, c1\, a1^6 + 4374\, a2^4\, b2^2\, a1^6 - 8748\, a2^4\, b2\, c2\, a1^6$$
$$+ 2916\, a2^4\, c1^2\, a1^6 + 4374\, a2^4\, c2^2\, a1^6 + 14580\, a2^3\, b1^2\, b2\, a1^6 - 26244\, a2^3\, b1^2\, c2\, a1^6$$
$$+ 11664\, a2^3\, b1\, b2\, c1\, a1^6 + 11664\, a2^3\, b1\, c1\, c2\, a1^6 - 8748\, a2^3\, b2^3\, a1^6$$
$$+ 8748\, a2^3\, b2^2\, c2\, a1^6 - 26244\, a2^3\, b2\, c1^2\, a1^6 + 8748\, a2^3\, b2\, c2^2\, a1^6$$
$$+ 14580\, a2^3\, c1^2\, c2\, a1^6 - 8748\, a2^3\, c2^3\, a1^6 + 4050\, a2^2\, b1^4\, a1^6 + 4212\, a2^2\, b1^3\, c1\, a1^6$$
$$- 63936\, a2^2\, b1^2\, b2^2\, a1^6 + 84132\, a2^2\, b1^2\, b2\, c2\, a1^6 - 16524\, a2^2\, b1^2\, c1^2\, a1^6$$
$$- 2700\, a2^2\, b1^2\, c2^2\, a1^6 + 148284\, a2^2\, b1\, b2^2\, c1\, a1^6 - 331560\, a2^2\, b1\, b2\, c1\, c2\, a1^6$$
$$+ 4212\, a2^2\, b1\, c1^3\, a1^6 + 148284\, a2^2\, b1\, c1\, c2^2\, a1^6 - 13986\, a2^2\, b2^4\, a1^6$$
$$+ 82188\, a2^2\, b2^3\, c2\, a1^6 - 2700\, a2^2\, b2^2\, c1^2\, a1^6 - 136404\, a2^2\, b2^2\, c2^2\, a1^6$$
$$+ 84132\, a2^2\, b2\, c1^2\, c2\, a1^6 + 82188\, a2^2\, b2\, c2^3\, a1^6 + 4050\, a2^2\, c1^4\, a1^6$$
$$- 63936\, a2^2\, c1^2\, c2^2\, a1^6 - 13986\, a2^2\, c2^4\, a1^6 + 6912\, a2\, b1^4\, b2\, a1^6$$
$$- 15012\, a2\, b1^4\, c2\, a1^6 + 35100\, a2\, b1^3\, b2\, c1\, a1^6 - 43524\, a2\, b1^3\, c1\, c2\, a1^6$$
$$- 80568\, a2\, b1^2\, b2^3\, a1^6 + 369576\, a2\, b1^2\, b2^2\, c2\, a1^6 + 16524\, a2\, b1^2\, b2\, c1^2\, a1^6$$
$$- 453708\, a2\, b1^2\, b2\, c2^2\, a1^6 + 16524\, a2\, b1^2\, c1^2\, c2\, a1^6 + 153036\, a2\, b1^2\, c2^3\, a1^6$$
$$- 154116\, a2\, b1\, b2^3\, c1\, a1^6 + 165780\, a2\, b1\, b2^2\, c1\, c2\, a1^6 - 43524\, a2\, b1\, b2\, c1^3\, a1^6$$

$$+ 165780\, a2\, b1\, b2\, c1\, c2^2\, a1^6 + 35100\, a2\, b1\, c1^3\, c2\, a1^6 - 154116\, a2\, b1\, c1\, c2^3\, a1^6$$
$$+ 18360\, a2\, b2^5\, a1^6 - 63828\, a2\, b2^4\, c2\, a1^6 + 153036\, a2\, b2^3\, c1^2\, a1^6$$
$$+ 45468\, a2\, b2^3\, c2^2\, a1^6 - 453708\, a2\, b2^2\, c1^2\, c2\, a1^6 + 45468\, a2\, b2^2\, c2^3\, a1^6$$
$$- 15012\, a2\, b2\, c1^4\, a1^6 + 369576\, a2\, b2\, c1^2\, c2^2\, a1^6 - 63828\, a2\, b2\, c2^4\, a1^6$$
$$+ 6912\, a2\, c1^4\, c2\, a1^6 - 80568\, a2\, c1^2\, c2^3\, a1^6 + 18360\, a2\, c2^5\, a1^6 - 648\, b1^6\, a1^6$$
$$+ 864\, c1\, b1^5\, a1^6 + 1107\, b1^4\, b2^2\, a1^6 - 9126\, b2\, b1^4\, c2\, a1^6 + 2376\, c1^2\, b1^4\, a1^6$$
$$+ 12069\, b1^4\, c2^2\, a1^6 + 12204\, b1^3\, b2^2\, c1\, a1^6 - 59508\, c1\, b2\, b1^3\, c2\, a1^6$$
$$- 5184\, c1^3\, b1^3\, a1^6 + 51516\, c1\, b1^3\, c2^2\, a1^6 - 27810\, b1^2\, b2^4\, a1^6$$
$$+ 191808\, b2^3\, b1^2\, c2\, a1^6 + 76194\, b1^2\, b2^2\, c1^2\, a1^6 - 472500\, b2^2\, b1^2\, c2^2\, a1^6$$
$$- 168912\, c1^2\, b2\, b1^2\, c2\, a1^6 + 466236\, b2\, b1^2\, c2^3\, a1^6 + 2376\, c1^4\, b1^2\, a1^6$$
$$+ 76194\, b1^2\, c1^2\, c2^2\, a1^6 - 154818\, b1^2\, c2^4\, a1^6 - 72900\, b1\, b2^4\, c1\, a1^6$$
$$+ 445716\, c1\, b2^3\, b1\, c2\, a1^6 + 51516\, b1\, b2^2\, c1^3\, a1^6 - 751464\, c1\, b2^2\, b1\, c2^2\, a1^6$$
$$- 59508\, c1^3\, b2\, b1\, c2\, a1^6 + 445716\, b2\, c1\, b1\, c2^3\, a1^6 + 864\, c1^5\, b1\, a1^6$$
$$+ 12204\, c1^3\, b1\, c2^2\, a1^6 - 72900\, b1\, c1\, c2^4\, a1^6 + 8851\, b2^6\, a1^6 - 71466\, b2^5\, c2\, a1^6$$
$$- 154818\, b2^4\, c1^2\, a1^6 + 210579\, b2^4\, c2^2\, a1^6 + 466236\, c1^2\, b2^3\, c2\, a1^6$$
$$- 295928\, b2^3\, c2^3\, a1^6 + 12069\, b2^2\, c1^4\, a1^6 - 472500\, b2^2\, c1^2\, c2^2\, a1^6$$
$$+ 210579\, b2^2\, c2^4\, a1^6 - 9126\, c1^4\, b2\, c2\, a1^6 + 191808\, c1^2\, b2\, c2^3\, a1^6 - 71466\, b2\, c2^5\, a1^6$$
$$- 648\, c1^6\, a1^6 + 1107\, c1^4\, c2^2\, a1^6 - 27810\, c1^2\, c2^4\, a1^6 + 8851\, c2^6\, a1^6$$
$$- 8748\, a2^5\, b1\, b2\, a1^5 + 8748\, a2^5\, b1\, c2\, a1^5 + 8748\, a2^5\, b2\, c1\, a1^5 - 8748\, a2^5\, c1\, c2\, a1^5$$
$$- 8748\, a2^4\, b1^3\, a1^5 + 8748\, a2^4\, b1^2\, c1\, a1^5 + 8748\, a2^4\, b1\, b2^2\, a1^5$$
$$+ 26244\, a2^4\, b1\, b2\, c2\, a1^5 + 8748\, a2^4\, b1\, c1^2\, a1^5 - 34992\, a2^4\, b1\, c2^2\, a1^5$$
$$- 34992\, a2^4\, b2^2\, c1\, a1^5 + 26244\, a2^4\, b2\, c1\, c2\, a1^5 - 8748\, a2^4\, c1^3\, a1^5$$
$$+ 8748\, a2^4\, c1\, c2^2\, a1^5 + 27108\, a2^3\, b1^3\, b2\, a1^5 + 7884\, a2^3\, b1^3\, c2\, a1^5$$
$$- 168804\, a2^3\, b1^2\, b2\, c1\, a1^5 + 133812\, a2^3\, b1^2\, c1\, c2\, a1^5 + 81108\, a2^3\, b1\, b2^3\, a1^5$$
$$- 278316\, a2^3\, b1\, b2^2\, c2\, a1^5 + 133812\, a2^3\, b1\, b2\, c1^2\, a1^5 + 225828\, a2^3\, b1\, b2\, c2^2\, a1^5$$
$$- 168804\, a2^3\, b1\, c1^2\, c2\, a1^5 - 28620\, a2^3\, b1\, c2^3\, a1^5 - 28620\, a2^3\, b2^3\, c1\, a1^5$$
$$+ 225828\, a2^3\, b2^2\, c1\, c2\, a1^5 + 7884\, a2^3\, b2\, c1^3\, a1^5 - 278316\, a2^3\, b2\, c1\, c2^2\, a1^5$$
$$+ 27108\, a2^3\, c1^3\, c2\, a1^5 + 81108\, a2^3\, c1\, c2^3\, a1^5 - 1944\, a2^2\, b1^5\, a1^5$$
$$- 14580\, a2^2\, b1^4\, c1\, a1^5 + 126360\, a2^2\, b1^3\, b2^2\, a1^5 - 334044\, a2^2\, b1^3\, b2\, c2\, a1^5$$
$$+ 16524\, a2^2\, b1^3\, c1^2\, a1^5 + 155196\, a2^2\, b1^3\, c2^2\, a1^5 + 4536\, a2^2\, b1^2\, b2^2\, c1\, a1^5$$
$$+ 497340\, a2^2\, b1^2\, b2\, c1\, c2\, a1^5 + 16524\, a2^2\, b1^2\, c1^3\, a1^5 - 449388\, a2^2\, b1^2\, c1\, c2^2\, a1^5$$
$$- 62208\, a2^2\, b1\, b2^4\, a1^5 + 5508\, a2^2\, b1\, b2^3\, c2\, a1^5 - 449388\, a2^2\, b1\, b2^2\, c1^2\, a1^5$$
$$+ 409212\, a2^2\, b1\, b2^2\, c2^2\, a1^5 + 497340\, a2^2\, b1\, b2\, c1^2\, c2\, a1^5 - 498636\, a2^2\, b1\, b2\, c2^3\, a1^5$$
$$- 14580\, a2^2\, b1\, c1^4\, a1^5 + 4536\, a2^2\, b1\, c1^2\, c2^2\, a1^5 + 146124\, a2^2\, b1\, c2^4\, a1^5$$

$$+ 146124\, a2^2\, b2^4\, c1\, a1^5 - 498636\, a2^2\, b2^3\, c1\, c2\, a1^5 + 155196\, a2^2\, b2^2\, c1^3\, a1^5$$
$$+ 409212\, a2^2\, b2^2\, c1\, c2^2\, a1^5 - 334044\, a2^2\, b2\, c1^3\, c2\, a1^5 + 5508\, a2^2\, b2\, c1\, c2^3\, a1^5$$
$$- 1944\, a2^2\, c1^5\, a1^5 + 126360\, a2^2\, c1^3\, c2^2\, a1^5 - 62208\, a2^2\, c1\, c2^4\, a1^5$$
$$- 6102\, a2\, b1^5\, b2\, a1^5 + 9990\, a2\, b1^5\, c2\, a1^5 - 10962\, a2\, b1^4\, b2\, c1\, a1^5$$
$$+ 40122\, a2\, b1^4\, c1\, c2\, a1^5 + 115668\, a2\, b1^3\, b2^3\, a1^5 - 599724\, a2\, b1^3\, b2^2\, c2\, a1^5$$
$$- 83376\, a2\, b1^3\, b2\, c1^2\, a1^5 + 933768\, a2\, b1^3\, b2\, c2^2\, a1^5 + 50328\, a2\, b1^3\, c1^2\, c2\, a1^5$$
$$- 414720\, a2\, b1^3\, c2^3\, a1^5 + 136404\, a2\, b1^2\, b2^3\, c1\, a1^5 - 418284\, a2\, b1^2\, b2^2\, c1\, c2\, a1^5$$
$$+ 50328\, a2\, b1^2\, b2\, c1^3\, a1^5 - 79056\, a2\, b1^2\, b2\, c1\, c2^2\, a1^5 - 83376\, a2\, b1^2\, c1^3\, c2\, a1^5$$
$$+ 325944\, a2\, b1^2\, c1\, c2^3\, a1^5 - 108726\, a2\, b1\, b2^5\, a1^5 + 668046\, a2\, b1\, b2^4\, c2\, a1^5$$
$$+ 325944\, a2\, b1\, b2^3\, c1^2\, a1^5 - 1341600\, a2\, b1\, b2^3\, c2^2\, a1^5 - 79056\, a2\, b1\, b2^2\, c1^2\, c2\, a1^5$$
$$+ 1068792\, a2\, b1\, b2^2\, c2^3\, a1^5 + 40122\, a2\, b1\, b2\, c1^4\, a1^5 - 418284\, a2\, b1\, b2\, c1^2\, c2^2\, a1^5$$
$$- 285078\, a2\, b1\, b2\, c2^4\, a1^5 - 10962\, a2\, b1\, c1^4\, c2\, a1^5 + 136404\, a2\, b1\, c1^2\, c2^3\, a1^5$$
$$- 1434\, a2\, b1\, c2^5\, a1^5 - 1434\, a2\, b2^5\, c1\, a1^5 - 285078\, a2\, b2^4\, c1\, c2\, a1^5$$
$$- 414720\, a2\, b2^3\, c1^3\, a1^5 + 1068792\, a2\, b2^3\, c1\, c2^2\, a1^5 + 933768\, a2\, b2^2\, c1^3\, c2\, a1^5$$
$$- 1341600\, a2\, b2^2\, c1\, c2^3\, a1^5 + 9990\, a2\, b2\, c1^5\, a1^5 - 599724\, a2\, b2\, c1^3\, c2^2\, a1^5$$
$$+ 668046\, a2\, b2\, c1\, c2^4\, a1^5 - 6102\, a2\, c1^5\, c2\, a1^5 + 115668\, a2\, c1^3\, c2^3\, a1^5$$
$$- 108726\, a2\, c1\, c2^5\, a1^5 + 432\, b1^7\, a1^5 + 864\, c1\, b1^6\, a1^5 - 1944\, b1^5\, b2^2\, a1^5$$
$$+ 9990\, b2\, b1^5\, c2\, a1^5 - 5184\, c1^2\, b1^5\, a1^5 - 9990\, b1^5\, c2^2\, a1^5 + 3078\, b1^4\, b2^2\, c1\, a1^5$$
$$+ 4806\, c1\, b2\, b1^4\, c2\, a1^5 + 3888\, c1^3\, b1^4\, a1^5 - 22464\, c1\, b1^4\, c2^2\, a1^5 + 15984\, b1^3\, b2^4\, a1^5$$
$$- 179604\, b2^3\, b1^3\, c2\, a1^5 - 42768\, c1^2\, b2^2\, b1^3\, a1^5 + 569268\, b2^2\, b1^3\, c2^2\, a1^5$$
$$+ 168912\, c1^2\, b2\, b1^3\, c2\, a1^5 - 690768\, b2\, b1^3\, c2^3\, a1^5 + 3888\, c1^4\, b1^3\, a1^5$$
$$- 109620\, c1^2\, b1^3\, c2^2\, a1^5 + 276372\, b1^3\, c2^4\, a1^5 + 118908\, b1^2\, b2^4\, c1\, a1^5$$
$$- 612036\, c1\, b2^3\, b1^2\, c2\, a1^5 - 109620\, b1^2\, b2^2\, c1^3\, a1^5 + 1127196\, c1\, b2^2\, b1^2\, c2^2\, a1^5$$
$$+ 168912\, c1^3\, b2\, b1^2\, c2\, a1^5 - 725112\, c1\, b2\, b1^2\, c2^3\, a1^5 - 5184\, c1^5\, b1^2\, a1^5$$
$$- 42768\, c1^3\, b1^2\, c2^2\, a1^5 + 99792\, b1^2\, c1\, c2^4\, a1^5 + 18360\, b1\, b2^6\, a1^5$$
$$- 1434\, b2^5\, b1\, c2\, a1^5 + 99792\, b1\, b2^4\, c1^2\, a1^5 - 330438\, b1\, b2^4\, c2^2\, a1^5$$
$$- 725112\, c1^2\, b2^3\, b1\, c2\, a1^5 + 887784\, b2^3\, b1\, c2^3\, a1^5 - 22464\, b1\, b2^2\, c1^4\, a1^5$$
$$+ 1127196\, c1^2\, b2^2\, b1\, c2^2\, a1^5 - 933036\, b2^2\, b1\, c2^4\, a1^5 + 4806\, c1^4\, b2\, b1\, c2\, a1^5$$
$$- 612036\, c1^2\, b2\, b1\, c2^3\, a1^5 + 430230\, b1\, b2\, c2^5\, a1^5 + 864\, c1^6\, b1\, a1^5$$
$$+ 3078\, c1^4\, b1\, c2^2\, a1^5 + 118908\, b1\, c1^2\, c2^4\, a1^5 - 71466\, b1\, c2^6\, a1^5 - 71466\, b2^6\, c1\, a1^5$$
$$+ 430230\, c1\, b2^5\, c2\, a1^5 + 276372\, b2^4\, c1^3\, a1^5 - 933036\, b2^4\, c1\, c2^2\, a1^5$$
$$- 690768\, c1^3\, b2^3\, c2\, a1^5 + 887784\, c1\, b2^3\, c2^3\, a1^5 - 9990\, b2^2\, c1^5\, a1^5$$
$$+ 569268\, c1^3\, b2^2\, c2^2\, a1^5 - 330438\, c1\, b2^2\, c2^4\, a1^5 + 9990\, c1^5\, b2\, c2\, a1^5$$
$$- 179604\, c1^3\, b2\, c2^3\, a1^5 - 1434\, b2\, c1\, c2^5\, a1^5 + 432\, c1^7\, a1^5 - 1944\, c1^5\, c2^2\, a1^5$$

$$+ 15984\, c1^3\, c2^4\, a1^5 + 18360\, c1\, c2^6\, a1^5 + 4374\, a2^6\, b1^2\, a1^4 - 8748\, a2^6\, b1\, c1\, a1^4$$
$$+ 2916\, a2^6\, b2^2\, a1^4 - 5832\, a2^6\, b2\, c2\, a1^4 + 4374\, a2^6\, c1^2\, a1^4 + 2916\, a2^6\, c2^2\, a1^4$$
$$+ 8748\, a2^5\, b1^2\, b2\, a1^4 - 34992\, a2^5\, b1^2\, c2\, a1^4 + 26244\, a2^5\, b1\, b2\, c1\, a1^4$$
$$+ 26244\, a2^5\, b1\, c1\, c2\, a1^4 - 8748\, a2^5\, b2^3\, a1^4 + 8748\, a2^5\, b2^2\, c2\, a1^4$$
$$- 34992\, a2^5\, b2\, c1^2\, a1^4 + 8748\, a2^5\, b2\, c2^2\, a1^4 + 8748\, a2^5\, c1^2\, c2\, a1^4 - 8748\, a2^5\, c2^3\, a1^4$$
$$- 702\, a2^4\, b1^4\, a1^4 + 46548\, a2^4\, b1^3\, c1\, a1^4 - 136404\, a2^4\, b1^2\, b2^2\, a1^4$$
$$+ 229068\, a2^4\, b1^2\, b2\, c2\, a1^4 - 91692\, a2^4\, b1^2\, c1^2\, a1^4 - 27054\, a2^4\, b1^2\, c2^2\, a1^4$$
$$+ 229068\, a2^4\, b1\, b2^2\, c1\, a1^4 - 589356\, a2^4\, b1\, b2\, c1\, c2\, a1^4 + 46548\, a2^4\, b1\, c1^3\, a1^4$$
$$+ 229068\, a2^4\, b1\, c1\, c2^2\, a1^4 - 702\, a2^4\, b2^4\, a1^4 + 46548\, a2^4\, b2^3\, c2\, a1^4$$
$$- 27054\, a2^4\, b2^2\, c1^2\, a1^4 - 91692\, a2^4\, b2^2\, c2^2\, a1^4 + 229068\, a2^4\, b2\, c1^2\, c2\, a1^4$$
$$+ 46548\, a2^4\, b2\, c2^3\, a1^4 - 702\, a2^4\, c1^4\, a1^4 - 136404\, a2^4\, c1^2\, c2^2\, a1^4 - 702\, a2^4\, c2^4\, a1^4$$
$$- 73656\, a2^3\, b1^4\, b2\, a1^4 + 76464\, a2^3\, b1^4\, c2\, a1^4 + 159084\, a2^3\, b1^3\, b2\, c1\, a1^4$$
$$- 345276\, a2^3\, b1^3\, c1\, c2\, a1^4 + 48168\, a2^3\, b1^2\, b2^3\, a1^4 + 401112\, a2^3\, b1^2\, b2^2\, c2\, a1^4$$
$$+ 183384\, a2^3\, b1^2\, b2\, c1^2\, a1^4 - 859248\, a2^3\, b1^2\, b2\, c2^2\, a1^4 + 183384\, a2^3\, b1^2\, c1^2\, c2\, a1^4$$
$$+ 322488\, a2^3\, b1^2\, c2^3\, a1^4 - 501876\, a2^3\, b1\, b2^3\, c1\, a1^4 + 589356\, a2^3\, b1\, b2^2\, c1\, c2\, a1^4$$
$$- 345276\, a2^3\, b1\, b2\, c1^3\, a1^4 + 589356\, a2^3\, b1\, b2\, c1\, c2^2\, a1^4 + 159084\, a2^3\, b1\, c1^3\, c2\, a1^4$$
$$- 501876\, a2^3\, b1\, c1\, c2^3\, a1^4 + 15984\, a2^3\, b2^5\, a1^4 - 77112\, a2^3\, b2^4\, c2\, a1^4$$
$$+ 322488\, a2^3\, b2^3\, c1^2\, a1^4 + 61128\, a2^3\, b2^3\, c2^2\, a1^4 - 859248\, a2^3\, b2^2\, c1^2\, c2\, a1^4$$
$$+ 61128\, a2^3\, b2^2\, c2^3\, a1^4 + 76464\, a2^3\, b2\, c1^4\, a1^4 + 401112\, a2^3\, b2\, c1^2\, c2^2\, a1^4$$
$$- 77112\, a2^3\, b2\, c2^4\, a1^4 - 73656\, a2^3\, c1^4\, c2\, a1^4 + 48168\, a2^3\, c1^2\, c2^3\, a1^4$$
$$+ 15984\, a2^3\, c2^5\, a1^4 + 1107\, a2^2\, b1^6\, a1^4 + 3078\, a2^2\, b1^5\, c1\, a1^4$$
$$- 185436\, a2^2\, b1^4\, b2^2\, a1^4 + 591840\, a2^2\, b1^4\, b2\, c2\, a1^4 + 28755\, a2^2\, b1^4\, c1^2\, a1^4$$
$$- 410616\, a2^2\, b1^4\, c2^2\, a1^4 + 109944\, a2^2\, b1^3\, b2^2\, c1\, a1^4 - 697140\, a2^2\, b1^3\, b2\, c1\, c2\, a1^4$$
$$- 65880\, a2^2\, b1^3\, c1^3\, a1^4 + 866484\, a2^2\, b1^3\, c1\, c2^2\, a1^4 + 361887\, a2^2\, b1^2\, b2^4\, a1^4$$
$$- 1592052\, a2^2\, b1^2\, b2^3\, c2\, a1^4 - 176256\, a2^2\, b1^2\, b2^2\, c1^2\, a1^4$$
$$+ 1786410\, a2^2\, b1^2\, b2^2\, c2^2\, a1^4 - 197640\, a2^2\, b1^2\, b2\, c1^2\, c2\, a1^4$$
$$- 331692\, a2^2\, b1^2\, b2\, c2^3\, a1^4 + 28755\, a2^2\, b1^2\, c1^4\, a1^4 - 176256\, a2^2\, b1^2\, c1^2\, c2^2\, a1^4$$
$$- 158943\, a2^2\, b1^2\, c2^4\, a1^4 - 412734\, a2^2\, b1\, b2^4\, c1\, a1^4 + 3156564\, a2^2\, b1\, b2^3\, c1\, c2\, a1^4$$
$$+ 866484\, a2^2\, b1\, b2^2\, c1^3\, a1^4 - 5618880\, a2^2\, b1\, b2^2\, c1\, c2^2\, a1^4$$
$$- 697140\, a2^2\, b1\, b2\, c1^3\, c2\, a1^4 + 3156564\, a2^2\, b1\, b2\, c1\, c2^3\, a1^4 + 3078\, a2^2\, b1\, c1^5\, a1^4$$
$$+ 109944\, a2^2\, b1\, c1^3\, c2^2\, a1^4 - 412734\, a2^2\, b1\, c1\, c2^4\, a1^4 - 27810\, a2^2\, b2^6\, a1^4$$
$$+ 118908\, a2^2\, b2^5\, c2\, a1^4 - 158943\, a2^2\, b2^4\, c1^2\, a1^4 - 181602\, a2^2\, b2^4\, c2^2\, a1^4$$
$$- 331692\, a2^2\, b2^3\, c1^2\, c2\, a1^4 + 181008\, a2^2\, b2^3\, c2^3\, a1^4 - 410616\, a2^2\, b2^2\, c1^4\, a1^4$$
$$+ 1786410\, a2^2\, b2^2\, c1^2\, c2^2\, a1^4 - 181602\, a2^2\, b2^2\, c2^4\, a1^4 + 591840\, a2^2\, b2\, c1^4\, c2\, a1^4$$

$$- 1592052\, a2^2\, b2\, c1^2\, c2^3\, a1^4 + 118908\, a2^2\, b2\, c2^5\, a1^4 + 1107\, a2^2\, c1^6\, a1^4$$
$$- 185436\, a2^2\, c1^4\, c2^2\, a1^4 + 361887\, a2^2\, c1^2\, c2^4\, a1^4 - 27810\, a2^2\, c2^6\, a1^4$$
$$+ 6912\, a2\, b1^6\, b2\, a1^4 - 9126\, a2\, b1^6\, c2\, a1^4 - 10962\, a2\, b1^5\, b2\, c1\, a1^4$$
$$+ 4806\, a2\, b1^5\, c1\, c2\, a1^4 - 73656\, a2\, b1^4\, b2^3\, a1^4 + 591840\, a2\, b1^4\, b2^2\, c2\, a1^4$$
$$+ 54810\, a2\, b1^4\, b2\, c1^2\, a1^4 - 1183680\, a2\, b1^4\, b2\, c2^2\, a1^4 - 112320\, a2\, b1^4\, c1^2\, c2\, a1^4$$
$$+ 668304\, a2\, b1^4\, c2^3\, a1^4 - 283716\, a2\, b1^3\, b2^3\, c1\, a1^4 + 631260\, a2\, b1^3\, b2^2\, c1\, c2\, a1^4$$
$$+ 65880\, a2\, b1^3\, b2\, c1^3\, a1^4 + 65880\, a2\, b1^3\, b2\, c1\, c2^2\, a1^4 + 65880\, a2\, b1^3\, c1^3\, c2\, a1^4$$
$$- 599616\, a2\, b1^3\, c1\, c2^3\, a1^4 - 62208\, a2\, b1^2\, b2^5\, a1^4 - 412734\, a2\, b1^2\, b2^4\, c2\, a1^4$$
$$+ 84564\, a2\, b1^2\, b2^3\, c1^2\, a1^4 + 2417520\, a2\, b1^2\, b2^3\, c2^2\, a1^4 + 98820\, a2\, b1^2\, b2^2\, c1^2\, c2\, a1^4$$
$$- 3608460\, a2\, b1^2\, b2^2\, c2^3\, a1^4 - 112320\, a2\, b1^2\, b2\, c1^4\, a1^4 + 98820\, a2\, b1^2\, b2\, c1^2\, c2^2\, a1^4$$
$$+ 1970076\, a2\, b1^2\, b2\, c2^4\, a1^4 + 54810\, a2\, b1^2\, c1^4\, c2\, a1^4 + 84564\, a2\, b1^2\, c1^2\, c2^3\, a1^4$$
$$- 330438\, a2\, b1^2\, c2^5\, a1^4 + 668046\, a2\, b1\, b2^5\, c1\, a1^4 - 2514762\, a2\, b1\, b2^4\, c1\, c2\, a1^4$$
$$- 599616\, a2\, b1\, b2^3\, c1^3\, a1^4 + 1872960\, a2\, b1\, b2^3\, c1\, c2^2\, a1^4$$
$$+ 65880\, a2\, b1\, b2^2\, c1^3\, c2\, a1^4 + 1872960\, a2\, b1\, b2^2\, c1\, c2^3\, a1^4 + 4806\, a2\, b1\, b2\, c1^5\, a1^4$$
$$+ 631260\, a2\, b1\, b2\, c1^3\, c2^2\, a1^4 - 2514762\, a2\, b1\, b2\, c1\, c2^4\, a1^4 - 10962\, a2\, b1\, c1^5\, c2\, a1^4$$
$$- 283716\, a2\, b1\, c1^3\, c2^3\, a1^4 + 668046\, a2\, b1\, c1\, c2^5\, a1^4 + 18360\, a2\, b2^7\, a1^4$$
$$- 72900\, a2\, b2^6\, c2\, a1^4 - 330438\, a2\, b2^5\, c1^2\, a1^4 + 99792\, a2\, b2^5\, c2^2\, a1^4$$
$$+ 1970076\, a2\, b2^4\, c1^2\, c2\, a1^4 - 45252\, a2\, b2^4\, c2^3\, a1^4 + 668304\, a2\, b2^3\, c1^4\, a1^4$$
$$- 3608460\, a2\, b2^3\, c1^2\, c2^2\, a1^4 - 45252\, a2\, b2^3\, c2^4\, a1^4 - 1183680\, a2\, b2^2\, c1^4\, c2\, a1^4$$
$$+ 2417520\, a2\, b2^2\, c1^2\, c2^3\, a1^4 + 99792\, a2\, b2^2\, c2^5\, a1^4 - 9126\, a2\, b2\, c1^6\, a1^4$$
$$+ 591840\, a2\, b2\, c1^4\, c2^2\, a1^4 - 412734\, a2\, b2\, c1^2\, c2^4\, a1^4 - 72900\, a2\, b2\, c2^6\, a1^4$$
$$+ 6912\, a2\, c1^6\, c2\, a1^4 - 73656\, a2\, c1^4\, c2^3\, a1^4 - 62208\, a2\, c1^2\, c2^5\, a1^4 + 18360\, a2\, c2^7\, a1^4$$
$$- 108\, b1^8\, a1^4 - 1296\, c1\, b1^7\, a1^4 + 4050\, b1^6\, b2^2\, a1^4 - 15012\, b2\, b1^6\, c2\, a1^4$$
$$+ 2376\, c1^2\, b1^6\, a1^4 + 12069\, b1^6\, c2^2\, a1^4 - 14580\, c1\, b2^2\, b1^5\, a1^4$$
$$+ 40122\, c1\, b2\, b1^5\, c2\, a1^4 + 3888\, c1^3\, b1^5\, a1^4 - 22464\, c1\, b1^5\, c2^2\, a1^4 - 702\, b1^4\, b2^4\, a1^4$$
$$+ 76464\, b2^3\, b1^4\, c2\, a1^4 + 28755\, b1^4\, b2^2\, c1^2\, a1^4 - 410616\, b1^4\, b2^2\, c2^2\, a1^4$$
$$- 112320\, c1^2\, b2\, b1^4\, c2\, a1^4 + 668304\, b2\, b1^4\, c2^3\, a1^4 - 9720\, c1^4\, b1^4\, a1^4$$
$$+ 112320\, c1^2\, b1^4\, c2^2\, a1^4 - 334152\, b1^4\, c2^4\, a1^4 - 77112\, b1^3\, b2^4\, c1\, a1^4$$
$$+ 592164\, c1\, b2^3\, b1^3\, c2\, a1^4 + 32940\, b1^3\, b2^2\, c1^3\, a1^4 - 1203876\, b1^3\, b2^2\, c1\, c2^2\, a1^4$$
$$- 131760\, c1^3\, b2\, b1^3\, c2\, a1^4 + 780624\, c1\, b2\, b1^3\, c2^3\, a1^4 + 3888\, c1^5\, b1^3\, a1^4$$
$$+ 32940\, c1^3\, b1^3\, c2^2\, a1^4 - 45252\, c1\, b1^3\, c2^4\, a1^4 - 13986\, b1^2\, b2^6\, a1^4$$
$$+ 146124\, b2^5\, b1^2\, c2\, a1^4 - 181602\, b1^2\, b2^4\, c1^2\, a1^4 - 158943\, b1^2\, b2^4\, c2^2\, a1^4$$
$$+ 641844\, c1^2\, b2^3\, b1^2\, c2\, a1^4 - 593916\, b2^3\, b1^2\, c2^3\, a1^4 + 112320\, c1^4\, b2^2\, b1^2\, a1^4$$
$$- 1012176\, b1^2\, b2^2\, c1^2\, c2^2\, a1^4 + 1347552\, b2^2\, b1^2\, c2^4\, a1^4 - 112320\, c1^4\, b2\, b1^2\, c2\, a1^4$$

$$+ 641844\, c1^2\, b2\, b1^2\, c2^3\, a1^4 - 933036\, b2\, b1^2\, c2^5\, a1^4 + 2376\, c1^6\, b1^2\, a1^4$$
$$+ 28755\, c1^4\, b1^2\, c2^2\, a1^4 - 181602\, b1^2\, c1^2\, c2^4\, a1^4 + 210579\, b1^2\, c2^6\, a1^4$$
$$- 63828\, b1\, b2^6\, c1\, a1^4 - 285078\, c1\, b2^5\, b1\, c2\, a1^4 - 45252\, b1\, b2^4\, c1^3\, a1^4$$
$$+ 1970076\, b1\, b2^4\, c1\, c2^2\, a1^4 + 780624\, c1^3\, b2^3\, b1\, c2\, a1^4 - 3251088\, c1\, b2^3\, b1\, c2^3\, a1^4$$
$$- 22464\, b1\, b2^2\, c1^5\, a1^4 - 1203876\, b1\, b2^2\, c1^3\, c2^2\, a1^4 + 1970076\, c1\, b2^2\, b1\, c2^4\, a1^4$$
$$+ 40122\, c1^5\, b2\, b1\, c2\, a1^4 + 592164\, c1^3\, b2\, b1\, c2^3\, a1^4 - 285078\, b2\, c1\, b1\, c2^5\, a1^4$$
$$- 1296\, c1^7\, b1\, a1^4 - 14580\, c1^5\, b1\, c2^2\, a1^4 - 77112\, c1^3\, b1\, c2^4\, a1^4 - 63828\, b1\, c1\, c2^6\, a1^4$$
$$- 9126\, b2^8\, a1^4 + 54648\, b2^7\, c2\, a1^4 + 210579\, b2^6\, c1^2\, a1^4 - 154818\, b2^6\, c2^2\, a1^4$$
$$- 933036\, c1^2\, b2^5\, c2\, a1^4 + 276372\, b2^5\, c2^3\, a1^4 - 334152\, b2^4\, c1^4\, a1^4$$
$$+ 1347552\, b2^4\, c1^2\, c2^2\, a1^4 - 334152\, b2^4\, c2^4\, a1^4 + 668304\, c1^4\, b2^3\, c2\, a1^4$$
$$- 593916\, c1^2\, b2^3\, c2^3\, a1^4 + 276372\, b2^3\, c2^5\, a1^4 + 12069\, b2^2\, c1^6\, a1^4$$
$$- 410616\, b2^2\, c1^4\, c2^2\, a1^4 - 158943\, b2^2\, c1^2\, c2^4\, a1^4 - 154818\, b2^2\, c2^6\, a1^4$$
$$- 15012\, c1^6\, b2\, c2\, a1^4 + 76464\, c1^4\, b2\, c2^3\, a1^4 + 146124\, c1^2\, b2\, c2^5\, a1^4$$
$$+ 54648\, b2\, c2^7\, a1^4 - 108\, c1^8\, a1^4 + 4050\, c1^6\, c2^2\, a1^4 - 702\, c1^4\, c2^4\, a1^4$$
$$- 13986\, c1^2\, c2^6\, a1^4 - 9126\, c2^8\, a1^4 - 5832\, a2^7\, b1\, b2\, a1^3 + 5832\, a2^7\, b1\, c2\, a1^3$$
$$+ 5832\, a2^7\, b2\, c1\, a1^3 - 5832\, a2^7\, c1\, c2\, a1^3 - 8748\, a2^6\, b1^3\, a1^3 + 8748\, a2^6\, b1^2\, c1\, a1^3$$
$$+ 14580\, a2^6\, b1\, b2^2\, a1^3 + 11664\, a2^6\, b1\, b2\, c2\, a1^3 + 8748\, a2^6\, b1\, c1^2\, a1^3$$
$$- 26244\, a2^6\, b1\, c2^2\, a1^3 - 26244\, a2^6\, b2^2\, c1\, a1^3 + 11664\, a2^6\, b2\, c1\, c2\, a1^3$$
$$- 8748\, a2^6\, c1^3\, a1^3 + 14580\, a2^6\, c1\, c2^2\, a1^3 + 81108\, a2^5\, b1^3\, b2\, a1^3$$
$$- 28620\, a2^5\, b1^3\, c2\, a1^3 - 278316\, a2^5\, b1^2\, b2\, c1\, a1^3 + 225828\, a2^5\, b1^2\, c1\, c2\, a1^3$$
$$+ 27108\, a2^5\, b1\, b2^3\, a1^3 - 168804\, a2^5\, b1\, b2^2\, c2\, a1^3 + 225828\, a2^5\, b1\, b2\, c1^2\, a1^3$$
$$+ 133812\, a2^5\, b1\, b2\, c2^2\, a1^3 - 278316\, a2^5\, b1\, c1^2\, c2\, a1^3 + 7884\, a2^5\, b1\, c2^3\, a1^3$$
$$+ 7884\, a2^5\, b2^3\, c1\, a1^3 + 133812\, a2^5\, b2^2\, c1\, c2\, a1^3 - 28620\, a2^5\, b2\, c1^3\, a1^3$$
$$- 168804\, a2^5\, b2\, c1\, c2^2\, a1^3 + 81108\, a2^5\, c1^3\, c2\, a1^3 + 27108\, a2^5\, c1\, c2^3\, a1^3$$
$$+ 15984\, a2^4\, b1^5\, a1^3 - 77112\, a2^4\, b1^4\, c1\, a1^3 + 48168\, a2^4\, b1^3\, b2^2\, a1^3$$
$$- 501876\, a2^4\, b1^3\, b2\, c2\, a1^3 + 61128\, a2^4\, b1^3\, c1^2\, a1^3 + 322488\, a2^4\, b1^3\, c2^2\, a1^3$$
$$+ 401112\, a2^4\, b1^2\, b2^2\, c1\, a1^3 + 589356\, a2^4\, b1^2\, b2\, c1\, c2\, a1^3 + 61128\, a2^4\, b1^2\, c1^3\, a1^3$$
$$- 859248\, a2^4\, b1^2\, c1\, c2^2\, a1^3 - 73656\, a2^4\, b1\, b2^4\, a1^3 + 159084\, a2^4\, b1\, b2^3\, c2\, a1^3$$
$$- 859248\, a2^4\, b1\, b2^2\, c1^2\, a1^3 + 183384\, a2^4\, b1\, b2^2\, c2^2\, a1^3 + 589356\, a2^4\, b1\, b2\, c1^2\, c2\, a1^3$$
$$- 345276\, a2^4\, b1\, b2\, c2^3\, a1^3 - 77112\, a2^4\, b1\, c1^4\, a1^3 + 401112\, a2^4\, b1\, c1^2\, c2^2\, a1^3$$
$$+ 76464\, a2^4\, b1\, c2^4\, a1^3 + 76464\, a2^4\, b2^4\, c1\, a1^3 - 345276\, a2^4\, b2^3\, c1\, c2\, a1^3$$
$$+ 322488\, a2^4\, b2^2\, c1^3\, a1^3 + 183384\, a2^4\, b2^2\, c1\, c2^2\, a1^3 - 501876\, a2^4\, b2\, c1^3\, c2\, a1^3$$
$$+ 159084\, a2^4\, b2\, c1\, c2^3\, a1^3 + 15984\, a2^4\, c1^5\, a1^3 + 48168\, a2^4\, c1^3\, c2^2\, a1^3$$
$$- 73656\, a2^4\, c1\, c2^4\, a1^3 + 115668\, a2^3\, b1^5\, b2\, a1^3 - 179604\, a2^3\, b1^5\, c2\, a1^3$$

$$- 283716\, a2^3\, b1^4\, b2\, c1\, a1^3 + 592164\, a2^3\, b1^4\, c1\, c2\, a1^3 - 536984\, a2^3\, b1^3\, b2^3\, a1^3$$
$$+ 1418280\, a2^3\, b1^3\, b2^2\, c2\, a1^3 + 249264\, a2^3\, b1^3\, b2\, c1^2\, a1^3 - 414528\, a2^3\, b1^3\, b2\, c2^2\, a1^3$$
$$- 493776\, a2^3\, b1^3\, c1^2\, c2\, a1^3 - 291808\, a2^3\, b1^3\, c2^3\, a1^3 + 1418280\, a2^3\, b1^2\, b2^3\, c1\, a1^3$$
$$- 5859288\, a2^3\, b1^2\, b2^2\, c1\, c2\, a1^3 - 493776\, a2^3\, b1^2\, b2\, c1^3\, a1^3$$
$$+ 4680576\, a2^3\, b1^2\, b2\, c1\, c2^2\, a1^3 + 249264\, a2^3\, b1^2\, c1^3\, c2\, a1^3$$
$$- 414528\, a2^3\, b1^2\, c1\, c2^3\, a1^3 + 115668\, a2^3\, b1\, b2^5\, a1^3 - 283716\, a2^3\, b1\, b2^4\, c2\, a1^3$$
$$- 414528\, a2^3\, b1\, b2^3\, c1^2\, a1^3 + 249264\, a2^3\, b1\, b2^3\, c2^2\, a1^3$$
$$+ 4680576\, a2^3\, b1\, b2^2\, c1^2\, c2\, a1^3 - 493776\, a2^3\, b1\, b2^2\, c2^3\, a1^3$$
$$+ 592164\, a2^3\, b1\, b2\, c1^4\, a1^3 - 5859288\, a2^3\, b1\, b2\, c1^2\, c2^2\, a1^3$$
$$+ 592164\, a2^3\, b1\, b2\, c2^4\, a1^3 - 283716\, a2^3\, b1\, c1^4\, c2\, a1^3 + 1418280\, a2^3\, b1\, c1^2\, c2^3\, a1^3$$
$$- 179604\, a2^3\, b1\, c2^5\, a1^3 - 179604\, a2^3\, b2^5\, c1\, a1^3 + 592164\, a2^3\, b2^4\, c1\, c2\, a1^3$$
$$- 291808\, a2^3\, b2^3\, c1^3\, a1^3 - 493776\, a2^3\, b2^3\, c1\, c2^2\, a1^3 - 414528\, a2^3\, b2^2\, c1^3\, c2\, a1^3$$
$$+ 249264\, a2^3\, b2^2\, c1\, c2^3\, a1^3 - 179604\, a2^3\, b2\, c1^5\, a1^3 + 1418280\, a2^3\, b2\, c1^3\, c2^2\, a1^3$$
$$- 283716\, a2^3\, b2\, c1\, c2^4\, a1^3 + 115668\, a2^3\, c1^5\, c2\, a1^3 - 536984\, a2^3\, c1^3\, c2^3\, a1^3$$
$$+ 115668\, a2^3\, c1\, c2^5\, a1^3 - 2376\, a2^2\, b1^7\, a1^3 + 12204\, a2^2\, b1^6\, c1\, a1^3$$
$$+ 126360\, a2^2\, b1^5\, b2^2\, a1^3 - 599724\, a2^2\, b1^5\, b2\, c2\, a1^3 - 42768\, a2^2\, b1^5\, c1^2\, a1^3$$
$$+ 569268\, a2^2\, b1^5\, c2^2\, a1^3 + 109944\, a2^2\, b1^4\, b2^2\, c1\, a1^3 + 631260\, a2^2\, b1^4\, b2\, c1\, c2\, a1^3$$
$$+ 32940\, a2^2\, b1^4\, c1^3\, a1^3 - 1203876\, a2^2\, b1^4\, c1\, c2^2\, a1^3 + 48168\, a2^2\, b1^3\, b2^4\, a1^3$$
$$+ 1418280\, a2^2\, b1^3\, b2^3\, c2\, a1^3 - 439776\, a2^2\, b1^3\, b2^2\, c1^2\, a1^3$$
$$- 4254840\, a2^2\, b1^3\, b2^2\, c2^2\, a1^3 + 131760\, a2^2\, b1^3\, b2\, c1^2\, c2\, a1^3$$
$$+ 3251088\, a2^2\, b1^3\, b2\, c2^3\, a1^3 + 32940\, a2^2\, b1^3\, c1^4\, a1^3 + 674784\, a2^2\, b1^3\, c1^2\, c2^2\, a1^3$$
$$- 593916\, a2^2\, b1^3\, c2^4\, a1^3 - 1592052\, a2^2\, b1^2\, b2^4\, c1\, a1^3 + 2113368\, a2^2\, b1^2\, b2^3\, c1\, c2\, a1^3$$
$$+ 674784\, a2^2\, b1^2\, b2^2\, c1^3\, a1^3 + 5618880\, a2^2\, b1^2\, b2^2\, c1\, c2^2\, a1^3$$
$$+ 131760\, a2^2\, b1^2\, b2\, c1^3\, c2\, a1^3 - 8426496\, a2^2\, b1^2\, b2\, c1\, c2^3\, a1^3$$
$$- 42768\, a2^2\, b1^2\, c1^5\, a1^3 - 439776\, a2^2\, b1^2\, c1^3\, c2^2\, a1^3 + 2417520\, a2^2\, b1^2\, c1\, c2^4\, a1^3$$
$$- 80568\, a2^2\, b1\, b2^6\, a1^3 + 136404\, a2^2\, b1\, b2^5\, c2\, a1^3 + 2417520\, a2^2\, b1\, b2^4\, c1^2\, a1^3$$
$$+ 84564\, a2^2\, b1\, b2^4\, c2^2\, a1^3 - 8426496\, a2^2\, b1\, b2^3\, c1^2\, c2\, a1^3$$
$$- 362016\, a2^2\, b1\, b2^3\, c2^3\, a1^3 - 1203876\, a2^2\, b1\, b2^2\, c1^4\, a1^3$$
$$+ 5618880\, a2^2\, b1\, b2^2\, c1^2\, c2^2\, a1^3 + 641844\, a2^2\, b1\, b2^2\, c2^4\, a1^3$$
$$+ 631260\, a2^2\, b1\, b2\, c1^4\, c2\, a1^3 + 2113368\, a2^2\, b1\, b2\, c1^2\, c2^3\, a1^3$$
$$- 612036\, a2^2\, b1\, b2\, c2^5\, a1^3 + 12204\, a2^2\, b1\, c1^6\, a1^3 + 109944\, a2^2\, b1\, c1^4\, c2^2\, a1^3$$
$$- 1592052\, a2^2\, b1\, c1^2\, c2^4\, a1^3 + 191808\, a2^2\, b1\, c2^6\, a1^3 + 191808\, a2^2\, b2^6\, c1\, a1^3$$
$$- 612036\, a2^2\, b2^5\, c1\, c2\, a1^3 - 593916\, a2^2\, b2^4\, c1^3\, a1^3 + 641844\, a2^2\, b2^4\, c1\, c2^2\, a1^3$$
$$+ 3251088\, a2^2\, b2^3\, c1^3\, c2\, a1^3 - 362016\, a2^2\, b2^3\, c1\, c2^3\, a1^3 + 569268\, a2^2\, b2^2\, c1^5\, a1^3$$

$$- 4254840\, a2^2\, b2^2\, c1^3\, c2^2\, a1^3 + 84564\, a2^2\, b2^2\, c1\, c2^4\, a1^3 - 599724\, a2^2\, b2\, c1^5\, c2\, a1^3$$
$$+ 1418280\, a2^2\, b2\, c1^3\, c2^3\, a1^3 + 136404\, a2^2\, b2\, c1\, c2^5\, a1^3 - 2376\, a2^2\, c1^7\, a1^3$$
$$+ 126360\, a2^2\, c1^5\, c2^2\, a1^3 + 48168\, a2^2\, c1^3\, c2^4\, a1^3 - 80568\, a2^2\, c1\, c2^6\, a1^3$$
$$- 8964\, a2\, b1^7\, b2\, a1^3 + 13716\, a2\, b1^7\, c2\, a1^3 + 35100\, a2\, b1^6\, b2\, c1\, a1^3$$
$$- 59508\, a2\, b1^6\, c1\, c2\, a1^3 + 27108\, a2\, b1^5\, b2^3\, a1^3 - 334044\, a2\, b1^5\, b2^2\, c2\, a1^3$$
$$- 83376\, a2\, b1^5\, b2\, c1^2\, a1^3 + 933768\, a2\, b1^5\, b2\, c2^2\, a1^3 + 168912\, a2\, b1^5\, c1^2\, c2\, a1^3$$
$$- 690768\, a2\, b1^5\, c2^3\, a1^3 + 159084\, a2\, b1^4\, b2^3\, c1\, a1^3 - 697140\, a2\, b1^4\, b2^2\, c1\, c2\, a1^3$$
$$+ 65880\, a2\, b1^4\, b2\, c1^3\, a1^3 + 65880\, a2\, b1^4\, b2\, c1\, c2^2\, a1^3 - 131760\, a2\, b1^4\, c1^3\, c2\, a1^3$$
$$+ 780624\, a2\, b1^4\, c1\, c2^3\, a1^3 + 81108\, a2\, b1^3\, b2^5\, a1^3 - 501876\, a2\, b1^3\, b2^4\, c2\, a1^3$$
$$+ 249264\, a2\, b1^3\, b2^3\, c1^2\, a1^3 - 414528\, a2\, b1^3\, b2^3\, c2^2\, a1^3$$
$$+ 131760\, a2\, b1^3\, b2^2\, c1^2\, c2\, a1^3 + 3251088\, a2\, b1^3\, b2^2\, c2^3\, a1^3$$
$$- 131760\, a2\, b1^3\, b2\, c1^4\, a1^3 - 263520\, a2\, b1^3\, b2\, c1^2\, c2^2\, a1^3$$
$$- 3251088\, a2\, b1^3\, b2\, c2^4\, a1^3 + 65880\, a2\, b1^3\, c1^4\, c2\, a1^3 - 362016\, a2\, b1^3\, c1^2\, c2^3\, a1^3$$
$$+ 887784\, a2\, b1^3\, c2^5\, a1^3 + 5508\, a2\, b1^2\, b2^5\, c1\, a1^3 + 3156564\, a2\, b1^2\, b2^4\, c1\, c2\, a1^3$$
$$- 362016\, a2\, b1^2\, b2^3\, c1^3\, a1^3 - 8426496\, a2\, b1^2\, b2^3\, c1\, c2^2\, a1^3$$
$$- 263520\, a2\, b1^2\, b2^2\, c1^3\, c2\, a1^3 + 4680576\, a2\, b1^2\, b2^2\, c1\, c2^3\, a1^3$$
$$+ 168912\, a2\, b1^2\, b2\, c1^5\, a1^3 + 131760\, a2\, b1^2\, b2\, c1^3\, c2^2\, a1^3$$
$$+ 1872960\, a2\, b1^2\, b2\, c1\, c2^4\, a1^3 - 83376\, a2\, b1^2\, c1^5\, c2\, a1^3 + 249264\, a2\, b1^2\, c1^3\, c2^3\, a1^3$$
$$- 1341600\, a2\, b1^2\, c1\, c2^5\, a1^3 + 45036\, a2\, b1\, b2^7\, a1^3 - 154116\, a2\, b1\, b2^6\, c2\, a1^3$$
$$- 1341600\, a2\, b1\, b2^5\, c1^2\, a1^3 + 325944\, a2\, b1\, b2^5\, c2^2\, a1^3$$
$$+ 1872960\, a2\, b1\, b2^4\, c1^2\, c2\, a1^3 - 599616\, a2\, b1\, b2^4\, c2^3\, a1^3 + 780624\, a2\, b1\, b2^3\, c1^4\, a1^3$$
$$+ 4680576\, a2\, b1\, b2^3\, c1^2\, c2^2\, a1^3 + 780624\, a2\, b1\, b2^3\, c2^4\, a1^3$$
$$+ 65880\, a2\, b1\, b2^2\, c1^4\, c2\, a1^3 - 8426496\, a2\, b1\, b2^2\, c1^2\, c2^3\, a1^3$$
$$- 725112\, a2\, b1\, b2^2\, c2^5\, a1^3 - 59508\, a2\, b1\, b2\, c1^6\, a1^3 - 697140\, a2\, b1\, b2\, c1^4\, c2^2\, a1^3$$
$$+ 3156564\, a2\, b1\, b2\, c1^2\, c2^4\, a1^3 + 445716\, a2\, b1\, b2\, c2^6\, a1^3 + 35100\, a2\, b1\, c1^6\, c2\, a1^3$$
$$+ 159084\, a2\, b1\, c1^4\, c2^3\, a1^3 + 5508\, a2\, b1\, c1^2\, c2^5\, a1^3 - 118476\, a2\, b1\, c2^7\, a1^3$$
$$- 118476\, a2\, b2^7\, c1\, a1^3 + 445716\, a2\, b2^6\, c1\, c2\, a1^3 + 887784\, a2\, b2^5\, c1^3\, a1^3$$
$$- 725112\, a2\, b2^5\, c1\, c2^2\, a1^3 - 3251088\, a2\, b2^4\, c1^3\, c2\, a1^3 + 780624\, a2\, b2^4\, c1\, c2^3\, a1^3$$
$$- 690768\, a2\, b2^3\, c1^5\, a1^3 + 3251088\, a2\, b2^3\, c1^3\, c2^2\, a1^3 - 599616\, a2\, b2^3\, c1\, c2^4\, a1^3$$
$$+ 933768\, a2\, b2^2\, c1^5\, c2\, a1^3 - 414528\, a2\, b2^2\, c1^3\, c2^3\, a1^3 + 325944\, a2\, b2^2\, c1\, c2^5\, a1^3$$
$$+ 13716\, a2\, b2\, c1^7\, a1^3 - 334044\, a2\, b2\, c1^5\, c2^2\, a1^3 - 501876\, a2\, b2\, c1^3\, c2^4\, a1^3$$
$$- 154116\, a2\, b2\, c1\, c2^6\, a1^3 - 8964\, a2\, c1^7\, c2\, a1^3 + 27108\, a2\, c1^5\, c2^3\, a1^3$$
$$+ 81108\, a2\, c1^3\, c2^5\, a1^3 + 45036\, a2\, c1\, c2^7\, a1^3 + 432\, c1\, b1^8\, a1^3 - 2916\, b1^7\, b2^2\, a1^3$$
$$+ 14796\, b2\, b1^7\, c2\, a1^3 + 864\, c1^2\, b1^7\, a1^3 - 14256\, b1^7\, c2^2\, a1^3 + 4212\, b1^6\, b2^2\, c1\, a1^3$$

$$- 43524\, c1\, b2\, b1^6\, c2\, a1^3 - 5184\, c1^3\, b1^6\, a1^3 + 51516\, c1\, b1^6\, c2^2\, a1^3 - 8748\, b1^5\, b2^4\, a1^3$$
$$+ 7884\, b2^3\, b1^5\, c2\, a1^3 + 16524\, b1^5\, b2^2\, c1^2\, a1^3 + 155196\, b1^5\, b2^2\, c2^2\, a1^3$$
$$+ 50328\, c1^2\, b2\, b1^5\, c2\, a1^3 - 414720\, b2\, b1^5\, c2^3\, a1^3 + 3888\, c1^4\, b1^5\, a1^3$$
$$- 109620\, c1^2\, b1^5\, c2^2\, a1^3 + 276372\, b1^5\, c2^4\, a1^3 + 46548\, b1^4\, b2^4\, c1\, a1^3$$
$$- 345276\, c1\, b2^3\, b1^4\, c2\, a1^3 - 65880\, b1^4\, b2^2\, c1^3\, a1^3 + 866484\, b1^4\, b2^2\, c1\, c2^2\, a1^3$$
$$+ 65880\, c1^3\, b2\, b1^4\, c2\, a1^3 - 599616\, c1\, b2\, b1^4\, c2^3\, a1^3 + 3888\, c1^5\, b1^4\, a1^3$$
$$+ 32940\, c1^3\, b1^4\, c2^2\, a1^3 - 45252\, c1\, b1^4\, c2^4\, a1^3 - 8748\, b1^3\, b2^6\, a1^3$$
$$- 28620\, b2^5\, b1^3\, c2\, a1^3 + 61128\, b1^3\, b2^4\, c1^2\, a1^3 + 322488\, b1^3\, b2^4\, c2^2\, a1^3$$
$$- 493776\, c1^2\, b2^3\, b1^3\, c2\, a1^3 - 291808\, b2^3\, b1^3\, c2^3\, a1^3 + 32940\, b1^3\, b2^2\, c1^4\, a1^3$$
$$+ 674784\, c1^2\, b2^2\, b1^3\, c2^2\, a1^3 - 593916\, b2^2\, b1^3\, c2^4\, a1^3 + 65880\, c1^4\, b2\, b1^3\, c2\, a1^3$$
$$- 362016\, c1^2\, b2\, b1^3\, c2^3\, a1^3 + 887784\, b2\, b1^3\, c2^5\, a1^3 - 5184\, c1^6\, b1^3\, a1^3$$
$$- 65880\, c1^4\, b1^3\, c2^2\, a1^3 + 181008\, c1^2\, b1^3\, c2^4\, a1^3 - 295928\, b1^3\, c2^6\, a1^3$$
$$+ 82188\, b1^2\, b2^6\, c1\, a1^3 - 498636\, c1\, b2^5\, b1^2\, c2\, a1^3 + 181008\, b1^2\, b2^4\, c1^3\, a1^3$$
$$- 331692\, b1^2\, b2^4\, c1\, c2^2\, a1^3 - 362016\, c1^3\, b2^3\, b1^2\, c2\, a1^3 + 3251088\, c1\, b2^3\, b1^2\, c2^3\, a1^3$$
$$- 109620\, b1^2\, b2^2\, c1^5\, a1^3 + 674784\, b1^2\, b2^2\, c1^3\, c2^2\, a1^3 - 3608460\, c1\, b2^2\, b1^2\, c2^4\, a1^3$$
$$+ 50328\, c1^5\, b2\, b1^2\, c2\, a1^3 - 493776\, c1^3\, b2\, b1^2\, c2^3\, a1^3 + 1068792\, c1\, b2\, b1^2\, c2^5\, a1^3$$
$$+ 864\, c1^7\, b1^2\, a1^3 + 16524\, c1^5\, b1^2\, c2^2\, a1^3 + 61128\, c1^3\, b1^2\, c2^4\, a1^3$$
$$+ 45468\, b1^2\, c1\, c2^6\, a1^3 - 2916\, b1\, b2^8\, a1^3 - 21708\, b2^7\, b1\, c2\, a1^3$$
$$+ 45468\, b1\, b2^6\, c1^2\, a1^3 + 153036\, b1\, b2^6\, c2^2\, a1^3 + 1068792\, c1^2\, b2^5\, b1\, c2\, a1^3$$
$$- 414720\, b2^5\, b1\, c2^3\, a1^3 - 45252\, b1\, b2^4\, c1^4\, a1^3 - 3608460\, b1\, b2^4\, c1^2\, c2^2\, a1^3$$
$$+ 668304\, b1\, b2^4\, c2^4\, a1^3 - 599616\, c1^4\, b2^3\, b1\, c2\, a1^3 + 3251088\, c1^2\, b2^3\, b1\, c2^3\, a1^3$$
$$- 690768\, b2^3\, b1\, c2^5\, a1^3 + 51516\, b1\, b2^2\, c1^6\, a1^3 + 866484\, b1\, b2^2\, c1^4\, c2^2\, a1^3$$
$$- 331692\, c1^2\, b2^2\, b1\, c2^4\, a1^3 + 466236\, b2^2\, b1\, c2^6\, a1^3 - 43524\, c1^6\, b2\, b1\, c2\, a1^3$$
$$- 345276\, c1^4\, b2\, b1\, c2^3\, a1^3 - 498636\, c1^2\, b2\, b1\, c2^5\, a1^3 - 196884\, b1\, b2\, c2^7\, a1^3$$
$$+ 432\, c1^8\, b1\, a1^3 + 4212\, c1^6\, b1\, c2^2\, a1^3 + 46548\, c1^4\, b1\, c2^4\, a1^3 + 82188\, b1\, c1^2\, c2^6\, a1^3$$
$$+ 39420\, b1\, c2^8\, a1^3 + 39420\, b2^8\, c1\, a1^3 - 196884\, c1\, b2^7\, c2\, a1^3 - 295928\, b2^6\, c1^3\, a1^3$$
$$+ 466236\, b2^6\, c1\, c2^2\, a1^3 + 887784\, c1^3\, b2^5\, c2\, a1^3 - 690768\, c1\, b2^5\, c2^3\, a1^3$$
$$+ 276372\, b2^4\, c1^5\, a1^3 - 593916\, b2^4\, c1^3\, c2^2\, a1^3 + 668304\, b2^4\, c1\, c2^4\, a1^3$$
$$- 414720\, c1^5\, b2^3\, c2\, a1^3 - 291808\, c1^3\, b2^3\, c2^3\, a1^3 - 414720\, c1\, b2^3\, c2^5\, a1^3$$
$$- 14256\, b2^2\, c1^7\, a1^3 + 155196\, b2^2\, c1^5\, c2^2\, a1^3 + 322488\, c1^3\, b2^2\, c2^4\, a1^3$$
$$+ 153036\, c1\, b2^2\, c2^6\, a1^3 + 14796\, c1^7\, b2\, c2\, a1^3 + 7884\, c1^5\, b2\, c2^3\, a1^3$$
$$- 28620\, c1^3\, b2\, c2^5\, a1^3 - 21708\, b2\, c1\, c2^7\, a1^3 - 2916\, c1^7\, c2^2\, a1^3 - 8748\, c1^5\, c2^4\, a1^3$$
$$- 8748\, c1^3\, c2^6\, a1^3 - 2916\, c1\, c2^8\, a1^3 + 2916\, a2^8\, b1^2\, a1^2 - 5832\, a2^8\, b1\, c1\, a1^2$$
$$+ 729\, a2^8\, b2^2\, a1^2 - 1458\, a2^8\, b2\, c2\, a1^2 + 2916\, a2^8\, c1^2\, a1^2 + 729\, a2^8\, c2^2\, a1^2$$

$$- 2916\, a2^7\, b1^2\, b2\, a1^2 - 20412\, a2^7\, b1^2\, c2\, a1^2 + 23328\, a2^7\, b1\, b2\, c1\, a1^2$$
$$+ 23328\, a2^7\, b1\, c1\, c2\, a1^2 - 2916\, a2^7\, b2^3\, a1^2 + 2916\, a2^7\, b2^2\, c2\, a1^2$$
$$- 20412\, a2^7\, b2\, c1^2\, a1^2 + 2916\, a2^7\, b2\, c2^2\, a1^2 - 2916\, a2^7\, c1^2\, c2\, a1^2 - 2916\, a2^7\, c2^3\, a1^2$$
$$- 13986\, a2^6\, b1^4\, a1^2 + 82188\, a2^6\, b1^3\, c1\, a1^2 - 63936\, a2^6\, b1^2\, b2^2\, a1^2$$
$$+ 148284\, a2^6\, b1^2\, b2\, c2\, a1^2 - 136404\, a2^6\, b1^2\, c1^2\, a1^2 - 2700\, a2^6\, b1^2\, c2^2\, a1^2$$
$$+ 84132\, a2^6\, b1\, b2^2\, c1\, a1^2 - 331560\, a2^6\, b1\, b2\, c1\, c2\, a1^2 + 82188\, a2^6\, b1\, c1^3\, a1^2$$
$$+ 84132\, a2^6\, b1\, c1\, c2^2\, a1^2 + 4050\, a2^6\, b2^4\, a1^2 + 4212\, a2^6\, b2^3\, c2\, a1^2$$
$$- 2700\, a2^6\, b2^2\, c1^2\, a1^2 - 16524\, a2^6\, b2^2\, c2^2\, a1^2 + 148284\, a2^6\, b2\, c1^2\, c2\, a1^2$$
$$+ 4212\, a2^6\, b2\, c2^3\, a1^2 - 13986\, a2^6\, c1^4\, a1^2 - 63936\, a2^6\, c1^2\, c2^2\, a1^2 + 4050\, a2^6\, c2^4\, a1^2$$
$$- 62208\, a2^5\, b1^4\, b2\, a1^2 + 146124\, a2^5\, b1^4\, c2\, a1^2 + 5508\, a2^5\, b1^3\, b2\, c1\, a1^2$$
$$- 498636\, a2^5\, b1^3\, c1\, c2\, a1^2 + 126360\, a2^5\, b1^2\, b2^3\, a1^2 + 4536\, a2^5\, b1^2\, b2^2\, c2\, a1^2$$
$$+ 409212\, a2^5\, b1^2\, b2\, c1^2\, a1^2 - 449388\, a2^5\, b1^2\, b2\, c2^2\, a1^2 + 409212\, a2^5\, b1^2\, c1^2\, c2\, a1^2$$
$$+ 155196\, a2^5\, b1^2\, c2^3\, a1^2 - 334044\, a2^5\, b1\, b2^3\, c1\, a1^2 + 497340\, a2^5\, b1\, b2^2\, c1\, c2\, a1^2$$
$$- 498636\, a2^5\, b1\, b2\, c1^3\, a1^2 + 497340\, a2^5\, b1\, b2\, c1\, c2^2\, a1^2 + 5508\, a2^5\, b1\, c1^3\, c2\, a1^2$$
$$- 334044\, a2^5\, b1\, c1\, c2^3\, a1^2 - 1944\, a2^5\, b2^5\, a1^2 - 14580\, a2^5\, b2^4\, c2\, a1^2$$
$$+ 155196\, a2^5\, b2^3\, c1^2\, a1^2 + 16524\, a2^5\, b2^3\, c2^2\, a1^2 - 449388\, a2^5\, b2^2\, c1^2\, c2\, a1^2$$
$$+ 16524\, a2^5\, b2^2\, c2^3\, a1^2 + 146124\, a2^5\, b2\, c1^4\, a1^2 + 4536\, a2^5\, b2\, c1^2\, c2^2\, a1^2$$
$$- 14580\, a2^5\, b2\, c2^4\, a1^2 - 62208\, a2^5\, c1^4\, c2\, a1^2 + 126360\, a2^5\, c1^2\, c2^3\, a1^2$$
$$- 1944\, a2^5\, c2^5\, a1^2 - 27810\, a2^4\, b1^6\, a1^2 + 118908\, a2^4\, b1^5\, c1\, a1^2$$
$$+ 361887\, a2^4\, b1^4\, b2^2\, a1^2 - 412734\, a2^4\, b1^4\, b2\, c2\, a1^2 - 181602\, a2^4\, b1^4\, c1^2\, a1^2$$
$$- 158943\, a2^4\, b1^4\, c2^2\, a1^2 - 1592052\, a2^4\, b1^3\, b2^2\, c1\, a1^2 + 3156564\, a2^4\, b1^3\, b2\, c1\, c2\, a1^2$$
$$+ 181008\, a2^4\, b1^3\, c1^3\, a1^2 - 331692\, a2^4\, b1^3\, c1\, c2^2\, a1^2 - 185436\, a2^4\, b1^2\, b2^4\, a1^2$$
$$+ 109944\, a2^4\, b1^2\, b2^3\, c2\, a1^2 + 1786410\, a2^4\, b1^2\, b2^2\, c1^2\, a1^2$$
$$- 176256\, a2^4\, b1^2\, b2^2\, c2^2\, a1^2 - 5618880\, a2^4\, b1^2\, b2\, c1^2\, c2\, a1^2$$
$$+ 866484\, a2^4\, b1^2\, b2\, c2^3\, a1^2 - 181602\, a2^4\, b1^2\, c1^4\, a1^2 + 1786410\, a2^4\, b1^2\, c1^2\, c2^2\, a1^2$$
$$- 410616\, a2^4\, b1^2\, c2^4\, a1^2 + 591840\, a2^4\, b1\, b2^4\, c1\, a1^2 - 697140\, a2^4\, b1\, b2^3\, c1\, c2\, a1^2$$
$$- 331692\, a2^4\, b1\, b2^2\, c1^3\, a1^2 - 197640\, a2^4\, b1\, b2^2\, c1\, c2^2\, a1^2$$
$$+ 3156564\, a2^4\, b1\, b2\, c1^3\, c2\, a1^2 - 697140\, a2^4\, b1\, b2\, c1\, c2^3\, a1^2 + 118908\, a2^4\, b1\, c1^5\, a1^2$$
$$- 1592052\, a2^4\, b1\, c1^3\, c2^2\, a1^2 + 591840\, a2^4\, b1\, c1\, c2^4\, a1^2 + 1107\, a2^4\, b2^6\, a1^2$$
$$+ 3078\, a2^4\, b2^5\, c2\, a1^2 - 410616\, a2^4\, b2^4\, c1^2\, a1^2 + 28755\, a2^4\, b2^4\, c2^2\, a1^2$$
$$+ 866484\, a2^4\, b2^3\, c1^2\, c2\, a1^2 - 65880\, a2^4\, b2^3\, c2^3\, a1^2 - 158943\, a2^4\, b2^2\, c1^4\, a1^2$$
$$- 176256\, a2^4\, b2^2\, c1^2\, c2^2\, a1^2 + 28755\, a2^4\, b2^2\, c2^4\, a1^2 - 412734\, a2^4\, b2\, c1^4\, c2\, a1^2$$
$$+ 109944\, a2^4\, b2\, c1^2\, c2^3\, a1^2 + 3078\, a2^4\, b2\, c2^5\, a1^2 - 27810\, a2^4\, c1^6\, a1^2$$
$$+ 361887\, a2^4\, c1^4\, c2^2\, a1^2 - 185436\, a2^4\, c1^2\, c2^4\, a1^2 + 1107\, a2^4\, c2^6\, a1^2$$

$$- 80568\, a2^3\, b1^6\, b2\, a1^2 + 191808\, a2^3\, b1^6\, c2\, a1^2 + 136404\, a2^3\, b1^5\, b2\, c1\, a1^2$$
$$- 612036\, a2^3\, b1^5\, c1\, c2\, a1^2 + 48168\, a2^3\, b1^4\, b2^3\, a1^2 - 1592052\, a2^3\, b1^4\, b2^2\, c2\, a1^2$$
$$+ 84564\, a2^3\, b1^4\, b2\, c1^2\, a1^2 + 2417520\, a2^3\, b1^4\, b2\, c2^2\, a1^2 + 641844\, a2^3\, b1^4\, c1^2\, c2\, a1^2$$
$$- 593916\, a2^3\, b1^4\, c2^3\, a1^2 + 1418280\, a2^3\, b1^3\, b2^3\, c1\, a1^2 + 2113368\, a2^3\, b1^3\, b2^2\, c1\, c2\, a1^2$$
$$- 362016\, a2^3\, b1^3\, b2\, c1^3\, a1^2 - 8426496\, a2^3\, b1^3\, b2\, c1\, c2^2\, a1^2$$
$$- 362016\, a2^3\, b1^3\, c1^3\, c2\, a1^2 + 3251088\, a2^3\, b1^3\, c1\, c2^3\, a1^2 + 126360\, a2^3\, b1^2\, b2^5\, a1^2$$
$$+ 109944\, a2^3\, b1^2\, b2^4\, c2\, a1^2 - 4254840\, a2^3\, b1^2\, b2^3\, c1^2\, a1^2$$
$$- 439776\, a2^3\, b1^2\, b2^3\, c2^2\, a1^2 + 5618880\, a2^3\, b1^2\, b2^2\, c1^2\, c2\, a1^2$$
$$+ 674784\, a2^3\, b1^2\, b2^2\, c2^3\, a1^2 + 641844\, a2^3\, b1^2\, b2\, c1^4\, a1^2$$
$$+ 5618880\, a2^3\, b1^2\, b2\, c1^2\, c2^2\, a1^2 - 1203876\, a2^3\, b1^2\, b2\, c2^4\, a1^2$$
$$+ 84564\, a2^3\, b1^2\, c1^4\, c2\, a1^2 - 4254840\, a2^3\, b1^2\, c1^2\, c2^3\, a1^2 + 569268\, a2^3\, b1^2\, c2^5\, a1^2$$
$$- 599724\, a2^3\, b1\, b2^5\, c1\, a1^2 + 631260\, a2^3\, b1\, b2^4\, c1\, c2\, a1^2$$
$$+ 3251088\, a2^3\, b1\, b2^3\, c1^3\, a1^2 + 131760\, a2^3\, b1\, b2^3\, c1\, c2^2\, a1^2$$
$$- 8426496\, a2^3\, b1\, b2^2\, c1^3\, c2\, a1^2 + 131760\, a2^3\, b1\, b2^2\, c1\, c2^3\, a1^2$$
$$- 612036\, a2^3\, b1\, b2\, c1^5\, a1^2 + 2113368\, a2^3\, b1\, b2\, c1^3\, c2^2\, a1^2$$
$$+ 631260\, a2^3\, b1\, b2\, c1\, c2^4\, a1^2 + 136404\, a2^3\, b1\, c1^5\, c2\, a1^2 + 1418280\, a2^3\, b1\, c1^3\, c2^3\, a1^2$$
$$- 599724\, a2^3\, b1\, c1\, c2^5\, a1^2 - 2376\, a2^3\, b2^7\, a1^2 + 12204\, a2^3\, b2^6\, c2\, a1^2$$
$$+ 569268\, a2^3\, b2^5\, c1^2\, a1^2 - 42768\, a2^3\, b2^5\, c2^2\, a1^2 - 1203876\, a2^3\, b2^4\, c1^2\, c2\, a1^2$$
$$+ 32940\, a2^3\, b2^4\, c2^3\, a1^2 - 593916\, a2^3\, b2^3\, c1^4\, a1^2 + 674784\, a2^3\, b2^3\, c1^2\, c2^2\, a1^2$$
$$+ 32940\, a2^3\, b2^3\, c2^4\, a1^2 + 2417520\, a2^3\, b2^2\, c1^4\, c2\, a1^2 - 439776\, a2^3\, b2^2\, c1^2\, c2^3\, a1^2$$
$$- 42768\, a2^3\, b2^2\, c2^5\, a1^2 + 191808\, a2^3\, b2\, c1^6\, a1^2 - 1592052\, a2^3\, b2\, c1^4\, c2^2\, a1^2$$
$$+ 109944\, a2^3\, b2\, c1^2\, c2^4\, a1^2 + 12204\, a2^3\, b2\, c2^6\, a1^2 - 80568\, a2^3\, c1^6\, c2\, a1^2$$
$$+ 48168\, a2^3\, c1^4\, c2^3\, a1^2 + 126360\, a2^3\, c1^2\, c2^5\, a1^2 - 2376\, a2^3\, c2^7\, a1^2$$
$$+ 4266\, a2^2\, b1^8\, a1^2 - 27000\, a2^2\, b1^7\, c1\, a1^2 - 63936\, a2^2\, b1^6\, b2^2\, a1^2$$
$$+ 369576\, a2^2\, b1^6\, b2\, c2\, a1^2 + 76194\, a2^2\, b1^6\, c1^2\, a1^2 - 472500\, a2^2\, b1^6\, c2^2\, a1^2$$
$$+ 4536\, a2^2\, b1^5\, b2^2\, c1\, a1^2 - 418284\, a2^2\, b1^5\, b2\, c1\, c2\, a1^2 - 109620\, a2^2\, b1^5\, c1^3\, a1^2$$
$$+ 1127196\, a2^2\, b1^5\, c1\, c2^2\, a1^2 - 136404\, a2^2\, b1^4\, b2^4\, a1^2 + 401112\, a2^2\, b1^4\, b2^3\, c2\, a1^2$$
$$- 176256\, a2^2\, b1^4\, b2^2\, c1^2\, a1^2 + 1786410\, a2^2\, b1^4\, b2^2\, c2^2\, a1^2$$
$$+ 98820\, a2^2\, b1^4\, b2\, c1^2\, c2\, a1^2 - 3608460\, a2^2\, b1^4\, b2\, c2^3\, a1^2 + 112320\, a2^2\, b1^4\, c1^4\, a1^2$$
$$- 1012176\, a2^2\, b1^4\, c1^2\, c2^2\, a1^2 + 1347552\, a2^2\, b1^4\, c2^4\, a1^2 + 401112\, a2^2\, b1^3\, b2^4\, c1\, a1^2$$
$$- 5859288\, a2^2\, b1^3\, b2^3\, c1\, c2\, a1^2 + 674784\, a2^2\, b1^3\, b2^2\, c1^3\, a1^2$$
$$+ 5618880\, a2^2\, b1^3\, b2^2\, c1\, c2^2\, a1^2 - 263520\, a2^2\, b1^3\, b2\, c1^3\, c2\, a1^2$$
$$+ 4680576\, a2^2\, b1^3\, b2\, c1\, c2^3\, a1^2 - 109620\, a2^2\, b1^3\, c1^5\, a1^2 + 674784\, a2^2\, b1^3\, c1^3\, c2^2\, a1^2$$
$$- 3608460\, a2^2\, b1^3\, c1\, c2^4\, a1^2 - 63936\, a2^2\, b1^2\, b2^6\, a1^2 + 4536\, a2^2\, b1^2\, b2^5\, c2\, a1^2$$

$$+ 1786410\, a2^2\, b1^2\, b2^4\, c1^2\, a1^2 - 176256\, a2^2\, b1^2\, b2^4\, c2^2\, a1^2$$
$$+ 5618880\, a2^2\, b1^2\, b2^3\, c1^2\, c2\, a1^2 + 674784\, a2^2\, b1^2\, b2^3\, c2^3\, a1^2$$
$$- 1012176\, a2^2\, b1^2\, b2^2\, c1^4\, a1^2 - 16856640\, a2^2\, b1^2\, b2^2\, c1^2\, c2^2\, a1^2$$
$$- 1012176\, a2^2\, b1^2\, b2^2\, c2^4\, a1^2 + 98820\, a2^2\, b1^2\, b2\, c1^4\, c2\, a1^2$$
$$+ 5618880\, a2^2\, b1^2\, b2\, c1^2\, c2^3\, a1^2 + 1127196\, a2^2\, b1^2\, b2\, c2^5\, a1^2 + 76194\, a2^2\, b1^2\, c1^6\, a1^2$$
$$- 176256\, a2^2\, b1^2\, c1^4\, c2^2\, a1^2 + 1786410\, a2^2\, b1^2\, c1^2\, c2^4\, a1^2 - 472500\, a2^2\, b1^2\, c2^6\, a1^2$$
$$+ 369576\, a2^2\, b1\, b2^6\, c1\, a1^2 - 418284\, a2^2\, b1\, b2^5\, c1\, c2\, a1^2$$
$$- 3608460\, a2^2\, b1\, b2^4\, c1^3\, a1^2 + 98820\, a2^2\, b1\, b2^4\, c1\, c2^2\, a1^2$$
$$+ 4680576\, a2^2\, b1\, b2^3\, c1^3\, c2\, a1^2 - 263520\, a2^2\, b1\, b2^3\, c1\, c2^3\, a1^2$$
$$+ 1127196\, a2^2\, b1\, b2^2\, c1^5\, a1^2 + 5618880\, a2^2\, b1\, b2^2\, c1^3\, c2^2\, a1^2$$
$$+ 98820\, a2^2\, b1\, b2^2\, c1\, c2^4\, a1^2 - 418284\, a2^2\, b1\, b2\, c1^5\, c2\, a1^2$$
$$- 5859288\, a2^2\, b1\, b2\, c1^3\, c2^3\, a1^2 - 418284\, a2^2\, b1\, b2\, c1\, c2^5\, a1^2 - 27000\, a2^2\, b1\, c1^7\, a1^2$$
$$+ 4536\, a2^2\, b1\, c1^5\, c2^2\, a1^2 + 401112\, a2^2\, b1\, c1^3\, c2^4\, a1^2 + 369576\, a2^2\, b1\, c1\, c2^6\, a1^2$$
$$+ 4266\, a2^2\, b2^8\, a1^2 - 27000\, a2^2\, b2^7\, c2\, a1^2 - 472500\, a2^2\, b2^6\, c1^2\, a1^2$$
$$+ 76194\, a2^2\, b2^6\, c2^2\, a1^2 + 1127196\, a2^2\, b2^5\, c1^2\, c2\, a1^2 - 109620\, a2^2\, b2^5\, c2^3\, a1^2$$
$$+ 1347552\, a2^2\, b2^4\, c1^4\, a1^2 - 1012176\, a2^2\, b2^4\, c1^2\, c2^2\, a1^2 + 112320\, a2^2\, b2^4\, c2^4\, a1^2$$
$$- 3608460\, a2^2\, b2^3\, c1^4\, c2\, a1^2 + 674784\, a2^2\, b2^3\, c1^2\, c2^3\, a1^2 - 109620\, a2^2\, b2^3\, c2^5\, a1^2$$
$$- 472500\, a2^2\, b2^2\, c1^6\, a1^2 + 1786410\, a2^2\, b2^2\, c1^4\, c2^2\, a1^2 - 176256\, a2^2\, b2^2\, c1^2\, c2^4\, a1^2$$
$$+ 76194\, a2^2\, b2^2\, c2^6\, a1^2 + 369576\, a2^2\, b2\, c1^6\, c2\, a1^2 + 401112\, a2^2\, b2\, c1^4\, c2^3\, a1^2$$
$$+ 4536\, a2^2\, b2\, c1^2\, c2^5\, a1^2 - 27000\, a2^2\, b2\, c2^7\, a1^2 + 4266\, a2^2\, c1^8\, a1^2$$
$$- 63936\, a2^2\, c1^6\, c2^2\, a1^2 - 136404\, a2^2\, c1^4\, c2^4\, a1^2 - 63936\, a2^2\, c1^2\, c2^6\, a1^2$$
$$+ 4266\, a2^2\, c2^8\, a1^2 + 5832\, a2\, b1^8\, b2\, a1^2 - 14364\, a2\, b1^8\, c2\, a1^2$$
$$- 19764\, a2\, b1^7\, b2\, c1\, a1^2 + 73764\, a2\, b1^7\, c1\, c2\, a1^2 + 14580\, a2\, b1^6\, b2^3\, a1^2$$
$$+ 84132\, a2\, b1^6\, b2^2\, c2\, a1^2 + 16524\, a2\, b1^6\, b2\, c1^2\, a1^2 - 453708\, a2\, b1^6\, b2\, c2^2\, a1^2$$
$$- 168912\, a2\, b1^6\, c1^2\, c2\, a1^2 + 466236\, a2\, b1^6\, c2^3\, a1^2 - 168804\, a2\, b1^5\, b2^3\, c1\, a1^2$$
$$+ 497340\, a2\, b1^5\, b2^2\, c1\, c2\, a1^2 + 50328\, a2\, b1^5\, b2\, c1^3\, a1^2 - 79056\, a2\, b1^5\, b2\, c1\, c2^2\, a1^2$$
$$+ 168912\, a2\, b1^5\, c1^3\, c2\, a1^2 - 725112\, a2\, b1^5\, c1\, c2^3\, a1^2 + 8748\, a2\, b1^4\, b2^5\, a1^2$$
$$+ 229068\, a2\, b1^4\, b2^4\, c2\, a1^2 + 183384\, a2\, b1^4\, b2^3\, c1^2\, a1^2 - 859248\, a2\, b1^4\, b2^3\, c2^2\, a1^2$$
$$- 197640\, a2\, b1^4\, b2^2\, c1^2\, c2\, a1^2 - 331692\, a2\, b1^4\, b2^2\, c2^3\, a1^2 - 112320\, a2\, b1^4\, b2\, c1^4\, a1^2$$
$$+ 98820\, a2\, b1^4\, b2\, c1^2\, c2^2\, a1^2 + 1970076\, a2\, b1^4\, b2\, c2^4\, a1^2 - 112320\, a2\, b1^4\, c1^4\, c2\, a1^2$$
$$+ 641844\, a2\, b1^4\, c1^2\, c2^3\, a1^2 - 933036\, a2\, b1^4\, c2^5\, a1^2 - 278316\, a2\, b1^3\, b2^5\, c1\, a1^2$$
$$+ 589356\, a2\, b1^3\, b2^4\, c1\, c2\, a1^2 - 493776\, a2\, b1^3\, b2^3\, c1^3\, a1^2$$
$$+ 4680576\, a2\, b1^3\, b2^3\, c1\, c2^2\, a1^2 + 131760\, a2\, b1^3\, b2^2\, c1^3\, c2\, a1^2$$
$$- 8426496\, a2\, b1^3\, b2^2\, c1\, c2^3\, a1^2 + 168912\, a2\, b1^3\, b2\, c1^5\, a1^2$$

$$+ 131760\, a2\, b1^3\, b2\, c1^3\, c2^2\, a1^2 + 1872960\, a2\, b1^3\, b2\, c1\, c2^4\, a1^2$$
$$+ 50328\, a2\, b1^3\, c1^5\, c2\, a1^2 - 493776\, a2\, b1^3\, c1^3\, c2^3\, a1^2 + 1068792\, a2\, b1^3\, c1\, c2^5\, a1^2$$
$$- 2916\, a2\, b1^2\, b2^7\, a1^2 + 148284\, a2\, b1^2\, b2^6\, c2\, a1^2 + 409212\, a2\, b1^2\, b2^5\, c1^2\, a1^2$$
$$- 449388\, a2\, b1^2\, b2^5\, c2^2\, a1^2 - 5618880\, a2\, b1^2\, b2^4\, c1^2\, c2\, a1^2$$
$$+ 866484\, a2\, b1^2\, b2^4\, c2^3\, a1^2 + 641844\, a2\, b1^2\, b2^3\, c1^4\, a1^2$$
$$+ 5618880\, a2\, b1^2\, b2^3\, c1^2\, c2^2\, a1^2 - 1203876\, a2\, b1^2\, b2^3\, c2^4\, a1^2$$
$$+ 98820\, a2\, b1^2\, b2^2\, c1^4\, c2\, a1^2 + 5618880\, a2\, b1^2\, b2^2\, c1^2\, c2^3\, a1^2$$
$$+ 1127196\, a2\, b1^2\, b2^2\, c2^5\, a1^2 - 168912\, a2\, b1^2\, b2\, c1^6\, a1^2$$
$$- 197640\, a2\, b1^2\, b2\, c1^4\, c2^2\, a1^2 - 5618880\, a2\, b1^2\, b2\, c1^2\, c2^4\, a1^2$$
$$- 751464\, a2\, b1^2\, b2\, c2^6\, a1^2 + 16524\, a2\, b1^2\, c1^6\, c2\, a1^2 + 183384\, a2\, b1^2\, c1^4\, c2^3\, a1^2$$
$$+ 409212\, a2\, b1^2\, c1^2\, c2^5\, a1^2 + 242352\, a2\, b1^2\, c2^7\, a1^2 - 129276\, a2\, b1\, b2^7\, c1\, a1^2$$
$$+ 165780\, a2\, b1\, b2^6\, c1\, c2\, a1^2 + 1068792\, a2\, b1\, b2^5\, c1^3\, a1^2$$
$$- 79056\, a2\, b1\, b2^5\, c1\, c2^2\, a1^2 + 1872960\, a2\, b1\, b2^4\, c1^3\, c2\, a1^2$$
$$+ 65880\, a2\, b1\, b2^4\, c1\, c2^3\, a1^2 - 725112\, a2\, b1\, b2^3\, c1^5\, a1^2$$
$$- 8426496\, a2\, b1\, b2^3\, c1^3\, c2^2\, a1^2 + 65880\, a2\, b1\, b2^3\, c1\, c2^4\, a1^2$$
$$- 79056\, a2\, b1\, b2^2\, c1^5\, c2\, a1^2 + 4680576\, a2\, b1\, b2^2\, c1^3\, c2^3\, a1^2$$
$$- 79056\, a2\, b1\, b2^2\, c1\, c2^5\, a1^2 + 73764\, a2\, b1\, b2\, c1^7\, a1^2 + 497340\, a2\, b1\, b2\, c1^5\, c2^2\, a1^2$$
$$+ 589356\, a2\, b1\, b2\, c1^3\, c2^4\, a1^2 + 165780\, a2\, b1\, b2\, c1\, c2^6\, a1^2 - 19764\, a2\, b1\, c1^7\, c2\, a1^2$$
$$- 168804\, a2\, b1\, c1^5\, c2^3\, a1^2 - 278316\, a2\, b1\, c1^3\, c2^5\, a1^2 - 129276\, a2\, b1\, c1\, c2^7\, a1^2$$
$$- 2916\, a2\, b2^9\, a1^2 + 17712\, a2\, b2^8\, c2\, a1^2 + 242352\, a2\, b2^7\, c1^2\, a1^2$$
$$- 43848\, a2\, b2^7\, c2^2\, a1^2 - 751464\, a2\, b2^6\, c1^2\, c2\, a1^2 + 51516\, a2\, b2^6\, c2^3\, a1^2$$
$$- 933036\, a2\, b2^5\, c1^4\, a1^2 + 1127196\, a2\, b2^5\, c1^2\, c2^2\, a1^2 - 22464\, a2\, b2^5\, c2^4\, a1^2$$
$$+ 1970076\, a2\, b2^4\, c1^4\, c2\, a1^2 - 1203876\, a2\, b2^4\, c1^2\, c2^3\, a1^2 - 22464\, a2\, b2^4\, c2^5\, a1^2$$
$$+ 466236\, a2\, b2^3\, c1^6\, a1^2 - 331692\, a2\, b2^3\, c1^4\, c2^2\, a1^2 + 866484\, a2\, b2^3\, c1^2\, c2^4\, a1^2$$
$$+ 51516\, a2\, b2^3\, c2^6\, a1^2 - 453708\, a2\, b2^2\, c1^6\, c2\, a1^2 - 859248\, a2\, b2^2\, c1^4\, c2^3\, a1^2$$
$$- 449388\, a2\, b2^2\, c1^2\, c2^5\, a1^2 - 43848\, a2\, b2^2\, c2^7\, a1^2 - 14364\, a2\, b2\, c1^8\, a1^2$$
$$+ 84132\, a2\, b2\, c1^6\, c2^2\, a1^2 + 229068\, a2\, b2\, c1^4\, c2^4\, a1^2 + 148284\, a2\, b2\, c1^2\, c2^6\, a1^2$$
$$+ 17712\, a2\, b2\, c2^8\, a1^2 + 5832\, a2\, c1^8\, c2\, a1^2 + 14580\, a2\, c1^6\, c2^3\, a1^2$$
$$+ 8748\, a2\, c1^4\, c2^5\, a1^2 - 2916\, a2\, c1^2\, c2^7\, a1^2 - 2916\, a2\, c2^9\, a1^2 + 729\, b1^8\, b2^2\, a1^2$$
$$- 7290\, b2\, b1^8\, c2\, a1^2 - 648\, c1^2\, b1^8\, a1^2 + 10827\, b1^8\, c2^2\, a1^2 + 2916\, b1^7\, b2^2\, c1\, a1^2$$
$$+ 13932\, c1\, b2\, b1^7\, c2\, a1^2 + 864\, c1^3\, b1^7\, a1^2 - 43848\, c1\, b1^7\, c2^2\, a1^2 + 2916\, b1^6\, b2^4\, a1^2$$
$$- 26244\, b2^3\, b1^6\, c2\, a1^2 - 16524\, c1^2\, b2^2\, b1^6\, a1^2 - 2700\, b1^6\, b2^2\, c2^2\, a1^2$$
$$+ 16524\, c1^2\, b2\, b1^6\, c2\, a1^2 + 153036\, b2\, b1^6\, c2^3\, a1^2 + 2376\, c1^4\, b1^6\, a1^2$$
$$+ 76194\, c1^2\, b1^6\, c2^2\, a1^2 - 154818\, b1^6\, c2^4\, a1^2 + 8748\, b1^5\, b2^4\, c1\, a1^2$$

$$+ 133812\, c1\, b2^3\, b1^5\, c2\, a1^2 + 16524\, b1^5\, b2^2\, c1^3\, a1^2 - 449388\, c1\, b2^2\, b1^5\, c2^2\, a1^2$$
$$- 83376\, c1^3\, b2\, b1^5\, c2\, a1^2 + 325944\, c1\, b2\, b1^5\, c2^3\, a1^2 - 5184\, c1^5\, b1^5\, a1^2$$
$$- 42768\, c1^3\, b1^5\, c2^2\, a1^2 + 99792\, c1\, b1^5\, c2^4\, a1^2 + 4374\, b1^4\, b2^6\, a1^2$$
$$- 34992\, b2^5\, b1^4\, c2\, a1^2 - 91692\, b1^4\, b2^4\, c1^2\, a1^2 - 27054\, b1^4\, b2^4\, c2^2\, a1^2$$
$$+ 183384\, c1^2\, b2^3\, b1^4\, c2\, a1^2 + 322488\, b2^3\, b1^4\, c2^3\, a1^2 + 28755\, b1^4\, b2^2\, c1^4\, a1^2$$
$$- 176256\, b1^4\, b2^2\, c1^2\, c2^2\, a1^2 - 158943\, b1^4\, b2^2\, c2^4\, a1^2 + 54810\, c1^4\, b2\, b1^4\, c2\, a1^2$$
$$+ 84564\, c1^2\, b2\, b1^4\, c2^3\, a1^2 - 330438\, b2\, b1^4\, c2^5\, a1^2 + 2376\, c1^6\, b1^4\, a1^2$$
$$+ 28755\, c1^4\, b1^4\, c2^2\, a1^2 - 181602\, c1^2\, b1^4\, c2^4\, a1^2 + 210579\, b1^4\, c2^6\, a1^2$$
$$+ 8748\, b1^3\, b2^6\, c1\, a1^2 + 225828\, c1\, b2^5\, b1^3\, c2\, a1^2 + 61128\, b1^3\, b2^4\, c1^3\, a1^2$$
$$- 859248\, b1^3\, b2^4\, c1\, c2^2\, a1^2 + 249264\, c1^3\, b2^3\, b1^3\, c2\, a1^2 - 414528\, c1\, b2^3\, b1^3\, c2^3\, a1^2$$
$$- 42768\, b1^3\, b2^2\, c1^5\, a1^2 - 439776\, b1^3\, b2^2\, c1^3\, c2^2\, a1^2 + 2417520\, b1^3\, b2^2\, c1\, c2^4\, a1^2$$
$$- 83376\, c1^5\, b2\, b1^3\, c2\, a1^2 + 249264\, c1^3\, b2\, b1^3\, c2^3\, a1^2 - 1341600\, c1\, b2\, b1^3\, c2^5\, a1^2$$
$$+ 864\, c1^7\, b1^3\, a1^2 + 16524\, c1^5\, b1^3\, c2^2\, a1^2 + 61128\, c1^3\, b1^3\, c2^4\, a1^2$$
$$+ 45468\, c1\, b1^3\, c2^6\, a1^2 + 2916\, b1^2\, b2^8\, a1^2 - 20412\, b2^7\, b1^2\, c2\, a1^2$$
$$- 136404\, b1^2\, b2^6\, c1^2\, a1^2 - 2700\, b1^2\, b2^6\, c2^2\, a1^2 + 409212\, c1^2\, b2^5\, b1^2\, c2\, a1^2$$
$$+ 155196\, b2^5\, b1^2\, c2^3\, a1^2 - 181602\, b1^2\, b2^4\, c1^4\, a1^2 + 1786410\, b1^2\, b2^4\, c1^2\, c2^2\, a1^2$$
$$- 410616\, b1^2\, b2^4\, c2^4\, a1^2 + 84564\, c1^4\, b2^3\, b1^2\, c2\, a1^2 - 4254840\, c1^2\, b2^3\, b1^2\, c2^3\, a1^2$$
$$+ 569268\, b2^3\, b1^2\, c2^5\, a1^2 + 76194\, b1^2\, b2^2\, c1^6\, a1^2 - 176256\, c1^4\, b2^2\, b1^2\, c2^2\, a1^2$$
$$+ 1786410\, b1^2\, b2^2\, c1^2\, c2^4\, a1^2 - 472500\, b2^2\, b1^2\, c2^6\, a1^2 + 16524\, c1^6\, b2\, b1^2\, c2\, a1^2$$
$$+ 183384\, c1^4\, b2\, b1^2\, c2^3\, a1^2 + 409212\, c1^2\, b2\, b1^2\, c2^5\, a1^2 + 242352\, b2\, b1^2\, c2^7\, a1^2$$
$$- 648\, c1^8\, b1^2\, a1^2 - 16524\, c1^6\, b1^2\, c2^2\, a1^2 - 91692\, c1^4\, b1^2\, c2^4\, a1^2$$
$$- 136404\, b1^2\, c1^2\, c2^6\, a1^2 - 60588\, b1^2\, c2^8\, a1^2 + 2916\, b1\, b2^8\, c1\, a1^2$$
$$+ 105948\, c1\, b2^7\, b1\, c2\, a1^2 + 45468\, b1\, b2^6\, c1^3\, a1^2 - 453708\, b1\, b2^6\, c1\, c2^2\, a1^2$$
$$- 1341600\, c1^3\, b2^5\, b1\, c2\, a1^2 + 933768\, c1\, b2^5\, b1\, c2^3\, a1^2 + 99792\, b1\, b2^4\, c1^5\, a1^2$$
$$+ 2417520\, b1\, b2^4\, c1^3\, c2^2\, a1^2 - 1183680\, b1\, b2^4\, c1\, c2^4\, a1^2 + 325944\, c1^5\, b2^3\, b1\, c2\, a1^2$$
$$- 414528\, c1^3\, b2^3\, b1\, c2^3\, a1^2 + 933768\, c1\, b2^3\, b1\, c2^5\, a1^2 - 43848\, b1\, b2^2\, c1^7\, a1^2$$
$$- 449388\, b1\, b2^2\, c1^5\, c2^2\, a1^2 - 859248\, b1\, b2^2\, c1^3\, c2^4\, a1^2 - 453708\, c1\, b2^2\, b1\, c2^6\, a1^2$$
$$+ 13932\, c1^7\, b2\, b1\, c2\, a1^2 + 133812\, c1^5\, b2\, b1\, c2^3\, a1^2 + 225828\, c1^3\, b2\, b1\, c2^5\, a1^2$$
$$+ 105948\, b2\, c1\, b1\, c2^7\, a1^2 + 2916\, c1^7\, b1\, c2^2\, a1^2 + 8748\, c1^5\, b1\, c2^4\, a1^2$$
$$+ 8748\, c1^3\, b1\, c2^6\, a1^2 + 2916\, b1\, c1\, c2^8\, a1^2 + 729\, b2^{10}\, a1^2 - 4374\, b2^9\, c2\, a1^2$$
$$- 60588\, b2^8\, c1^2\, a1^2 + 10827\, b2^8\, c2^2\, a1^2 + 242352\, c1^2\, b2^7\, c2\, a1^2 - 14256\, b2^7\, c2^3\, a1^2$$
$$+ 210579\, b2^6\, c1^4\, a1^2 - 472500\, b2^6\, c1^2\, c2^2\, a1^2 + 12069\, b2^6\, c2^4\, a1^2$$
$$- 330438\, c1^4\, b2^5\, c2\, a1^2 + 569268\, c1^2\, b2^5\, c2^3\, a1^2 - 9990\, b2^5\, c2^5\, a1^2$$
$$- 154818\, b2^4\, c1^6\, a1^2 - 158943\, b2^4\, c1^4\, c2^2\, a1^2 - 410616\, b2^4\, c1^2\, c2^4\, a1^2$$

$$+ 12069\, b2^4\, c2^6\, a1^2 + 153036\, c1^6\, b2^3\, c2\, a1^2 + 322488\, c1^4\, b2^3\, c2^3\, a1^2$$
$$+ 155196\, c1^2\, b2^3\, c2^5\, a1^2 - 14256\, b2^3\, c2^7\, a1^2 + 10827\, b2^2\, c1^8\, a1^2$$
$$- 2700\, b2^2\, c1^6\, c2^2\, a1^2 - 27054\, b2^2\, c1^4\, c2^4\, a1^2 - 2700\, b2^2\, c1^2\, c2^6\, a1^2$$
$$+ 10827\, b2^2\, c2^8\, a1^2 - 7290\, c1^8\, b2\, c2\, a1^2 - 26244\, c1^6\, b2\, c2^3\, a1^2$$
$$- 34992\, c1^4\, b2\, c2^5\, a1^2 - 20412\, c1^2\, b2\, c2^7\, a1^2 - 4374\, b2\, c2^9\, a1^2 + 729\, c1^8\, c2^2\, a1^2$$
$$+ 2916\, c1^6\, c2^4\, a1^2 + 4374\, c1^4\, c2^6\, a1^2 + 2916\, c1^2\, c2^8\, a1^2 + 729\, c2^{10}\, a1^2$$
$$- 1458\, a2^9\, b1\, b2\, a1 + 1458\, a2^9\, b1\, c2\, a1 + 1458\, a2^9\, b2\, c1\, a1 - 1458\, a2^9\, c1\, c2\, a1$$
$$- 2916\, a2^8\, b1^3\, a1 + 2916\, a2^8\, b1^2\, c1\, a1 + 5832\, a2^8\, b1\, b2^2\, a1 + 1458\, a2^8\, b1\, b2\, c2\, a1$$
$$+ 2916\, a2^8\, b1\, c1^2\, a1 - 7290\, a2^8\, b1\, c2^2\, a1 - 7290\, a2^8\, b2^2\, c1\, a1$$
$$+ 1458\, a2^8\, b2\, c1\, c2\, a1 - 2916\, a2^8\, c1^3\, a1 + 5832\, a2^8\, c1\, c2^2\, a1 + 45036\, a2^7\, b1^3\, b2\, a1$$
$$- 21708\, a2^7\, b1^3\, c2\, a1 - 129276\, a2^7\, b1^2\, b2\, c1\, a1 + 105948\, a2^7\, b1^2\, c1\, c2\, a1$$
$$- 8964\, a2^7\, b1\, b2^3\, a1 - 19764\, a2^7\, b1\, b2^2\, c2\, a1 + 105948\, a2^7\, b1\, b2\, c1^2\, a1$$
$$+ 13932\, a2^7\, b1\, b2\, c2^2\, a1 - 129276\, a2^7\, b1\, c1^2\, c2\, a1 + 14796\, a2^7\, b1\, c2^3\, a1$$
$$+ 14796\, a2^7\, b2^3\, c1\, a1 + 13932\, a2^7\, b2^2\, c1\, c2\, a1 - 21708\, a2^7\, b2\, c1^3\, a1$$
$$- 19764\, a2^7\, b2\, c1\, c2^2\, a1 + 45036\, a2^7\, c1^3\, c2\, a1 - 8964\, a2^7\, c1\, c2^3\, a1$$
$$+ 18360\, a2^6\, b1^5\, a1 - 63828\, a2^6\, b1^4\, c1\, a1 - 80568\, a2^6\, b1^3\, b2^2\, a1$$
$$- 154116\, a2^6\, b1^3\, b2\, c2\, a1 + 45468\, a2^6\, b1^3\, c1^2\, a1 + 153036\, a2^6\, b1^3\, c2^2\, a1$$
$$+ 369576\, a2^6\, b1^2\, b2^2\, c1\, a1 + 165780\, a2^6\, b1^2\, b2\, c1\, c2\, a1 + 45468\, a2^6\, b1^2\, c1^3\, a1$$
$$- 453708\, a2^6\, b1^2\, c1\, c2^2\, a1 + 6912\, a2^6\, b1\, b2^4\, a1 + 35100\, a2^6\, b1\, b2^3\, c2\, a1$$
$$- 453708\, a2^6\, b1\, b2^2\, c1^2\, a1 + 16524\, a2^6\, b1\, b2^2\, c2^2\, a1 + 165780\, a2^6\, b1\, b2\, c1^2\, c2\, a1$$
$$- 43524\, a2^6\, b1\, b2\, c2^3\, a1 - 63828\, a2^6\, b1\, c1^4\, a1 + 369576\, a2^6\, b1\, c1^2\, c2^2\, a1$$
$$- 15012\, a2^6\, b1\, c2^4\, a1 - 15012\, a2^6\, b2^4\, c1\, a1 - 43524\, a2^6\, b2^3\, c1\, c2\, a1$$
$$+ 153036\, a2^6\, b2^2\, c1^3\, a1 + 16524\, a2^6\, b2^2\, c1\, c2^2\, a1 - 154116\, a2^6\, b2\, c1^3\, c2\, a1$$
$$+ 35100\, a2^6\, b2\, c1\, c2^3\, a1 + 18360\, a2^6\, c1^5\, a1 - 80568\, a2^6\, c1^3\, c2^2\, a1$$
$$+ 6912\, a2^6\, c1\, c2^4\, a1 - 108726\, a2^5\, b1^5\, b2\, a1 - 1434\, a2^5\, b1^5\, c2\, a1$$
$$+ 668046\, a2^5\, b1^4\, b2\, c1\, a1 - 285078\, a2^5\, b1^4\, c1\, c2\, a1 + 115668\, a2^5\, b1^3\, b2^3\, a1$$
$$+ 136404\, a2^5\, b1^3\, b2^2\, c2\, a1 - 1341600\, a2^5\, b1^3\, b2\, c1^2\, a1 + 325944\, a2^5\, b1^3\, b2\, c2^2\, a1$$
$$+ 1068792\, a2^5\, b1^3\, c1^2\, c2\, a1 - 414720\, a2^5\, b1^3\, c2^3\, a1 - 599724\, a2^5\, b1^2\, b2^3\, c1\, a1$$
$$- 418284\, a2^5\, b1^2\, b2^2\, c1\, c2\, a1 + 1068792\, a2^5\, b1^2\, b2\, c1^3\, a1$$
$$- 79056\, a2^5\, b1^2\, b2\, c1\, c2^2\, a1 - 1341600\, a2^5\, b1^2\, c1^3\, c2\, a1 + 933768\, a2^5\, b1^2\, c1\, c2^3\, a1$$
$$- 6102\, a2^5\, b1\, b2^5\, a1 - 10962\, a2^5\, b1\, b2^4\, c2\, a1 + 933768\, a2^5\, b1\, b2^3\, c1^2\, a1$$
$$- 83376\, a2^5\, b1\, b2^3\, c2^2\, a1 - 79056\, a2^5\, b1\, b2^2\, c1^2\, c2\, a1 + 50328\, a2^5\, b1\, b2^2\, c2^3\, a1$$
$$- 285078\, a2^5\, b1\, b2\, c1^4\, a1 - 418284\, a2^5\, b1\, b2\, c1^2\, c2^2\, a1 + 40122\, a2^5\, b1\, b2\, c2^4\, a1$$
$$+ 668046\, a2^5\, b1\, c1^4\, c2\, a1 - 599724\, a2^5\, b1\, c1^2\, c2^3\, a1 + 9990\, a2^5\, b1\, c2^5\, a1$$

$$+ 9990\, a2^5\, b2^5\, c1\, a1 + 40122\, a2^5\, b2^4\, c1\, c2\, a1 - 414720\, a2^5\, b2^3\, c1^3\, a1$$
$$+ 50328\, a2^5\, b2^3\, c1\, c2^2\, a1 + 325944\, a2^5\, b2^2\, c1^3\, c2\, a1 - 83376\, a2^5\, b2^2\, c1\, c2^3\, a1$$
$$- 1434\, a2^5\, b2\, c1^5\, a1 + 136404\, a2^5\, b2\, c1^3\, c2^2\, a1 - 10962\, a2^5\, b2\, c1\, c2^4\, a1$$
$$- 108726\, a2^5\, c1^5\, c2\, a1 + 115668\, a2^5\, c1^3\, c2^3\, a1 - 6102\, a2^5\, c1\, c2^5\, a1$$
$$+ 18360\, a2^4\, b1^7\, a1 - 72900\, a2^4\, b1^6\, c1\, a1 - 62208\, a2^4\, b1^5\, b2^2\, a1$$
$$+ 668046\, a2^4\, b1^5\, b2\, c2\, a1 + 99792\, a2^4\, b1^5\, c1^2\, a1 - 330438\, a2^4\, b1^5\, c2^2\, a1$$
$$- 412734\, a2^4\, b1^4\, b2^2\, c1\, a1 - 2514762\, a2^4\, b1^4\, b2\, c1\, c2\, a1 - 45252\, a2^4\, b1^4\, c1^3\, a1$$
$$+ 1970076\, a2^4\, b1^4\, c1\, c2^2\, a1 - 73656\, a2^4\, b1^3\, b2^4\, a1 - 283716\, a2^4\, b1^3\, b2^3\, c2\, a1$$
$$+ 2417520\, a2^4\, b1^3\, b2^2\, c1^2\, a1 + 84564\, a2^4\, b1^3\, b2^2\, c2^2\, a1$$
$$+ 1872960\, a2^4\, b1^3\, b2\, c1^2\, c2\, a1 - 599616\, a2^4\, b1^3\, b2\, c2^3\, a1 - 45252\, a2^4\, b1^3\, c1^4\, a1$$
$$- 3608460\, a2^4\, b1^3\, c1^2\, c2^2\, a1 + 668304\, a2^4\, b1^3\, c2^4\, a1 + 591840\, a2^4\, b1^2\, b2^4\, c1\, a1$$
$$+ 631260\, a2^4\, b1^2\, b2^3\, c1\, c2\, a1 - 3608460\, a2^4\, b1^2\, b2^2\, c1^3\, a1$$
$$+ 98820\, a2^4\, b1^2\, b2^2\, c1\, c2^2\, a1 + 1872960\, a2^4\, b1^2\, b2\, c1^3\, c2\, a1$$
$$+ 65880\, a2^4\, b1^2\, b2\, c1\, c2^3\, a1 + 99792\, a2^4\, b1^2\, c1^5\, a1 + 2417520\, a2^4\, b1^2\, c1^3\, c2^2\, a1$$
$$- 1183680\, a2^4\, b1^2\, c1\, c2^4\, a1 + 6912\, a2^4\, b1\, b2^6\, a1 - 10962\, a2^4\, b1\, b2^5\, c2\, a1$$
$$- 1183680\, a2^4\, b1\, b2^4\, c1^2\, a1 + 54810\, a2^4\, b1\, b2^4\, c2^2\, a1 + 65880\, a2^4\, b1\, b2^3\, c1^2\, c2\, a1$$
$$+ 65880\, a2^4\, b1\, b2^3\, c2^3\, a1 + 1970076\, a2^4\, b1\, b2^2\, c1^4\, a1 + 98820\, a2^4\, b1\, b2^2\, c1^2\, c2^2\, a1$$
$$- 112320\, a2^4\, b1\, b2^2\, c2^4\, a1 - 2514762\, a2^4\, b1\, b2\, c1^4\, c2\, a1$$
$$+ 631260\, a2^4\, b1\, b2\, c1^2\, c2^3\, a1 + 4806\, a2^4\, b1\, b2\, c2^5\, a1 - 72900\, a2^4\, b1\, c1^6\, a1$$
$$- 412734\, a2^4\, b1\, c1^4\, c2^2\, a1 + 591840\, a2^4\, b1\, c1^2\, c2^4\, a1 - 9126\, a2^4\, b1\, c2^6\, a1$$
$$- 9126\, a2^4\, b2^6\, c1\, a1 + 4806\, a2^4\, b2^5\, c1\, c2\, a1 + 668304\, a2^4\, b2^4\, c1^3\, a1$$
$$- 112320\, a2^4\, b2^4\, c1\, c2^2\, a1 - 599616\, a2^4\, b2^3\, c1^3\, c2\, a1 + 65880\, a2^4\, b2^3\, c1\, c2^3\, a1$$
$$- 330438\, a2^4\, b2^2\, c1^5\, a1 + 84564\, a2^4\, b2^2\, c1^3\, c2^2\, a1 + 54810\, a2^4\, b2^2\, c1\, c2^4\, a1$$
$$+ 668046\, a2^4\, b2\, c1^5\, c2\, a1 - 283716\, a2^4\, b2\, c1^3\, c2^3\, a1 - 10962\, a2^4\, b2\, c1\, c2^5\, a1$$
$$+ 18360\, a2^4\, c1^7\, a1 - 62208\, a2^4\, c1^5\, c2^2\, a1 - 73656\, a2^4\, c1^3\, c2^4\, a1 + 6912\, a2^4\, c1\, c2^6\, a1$$
$$+ 45036\, a2^3\, b1^7\, b2\, a1 - 118476\, a2^3\, b1^7\, c2\, a1 - 154116\, a2^3\, b1^6\, b2\, c1\, a1$$
$$+ 445716\, a2^3\, b1^6\, c1\, c2\, a1 + 81108\, a2^3\, b1^5\, b2^3\, a1 + 5508\, a2^3\, b1^5\, b2^2\, c2\, a1$$
$$+ 325944\, a2^3\, b1^5\, b2\, c1^2\, a1 - 1341600\, a2^3\, b1^5\, b2\, c2^2\, a1 - 725112\, a2^3\, b1^5\, c1^2\, c2\, a1$$
$$+ 887784\, a2^3\, b1^5\, c2^3\, a1 - 501876\, a2^3\, b1^4\, b2^3\, c1\, a1 + 3156564\, a2^3\, b1^4\, b2^2\, c1\, c2\, a1$$
$$- 599616\, a2^3\, b1^4\, b2\, c1^3\, a1 + 1872960\, a2^3\, b1^4\, b2\, c1\, c2^2\, a1 + 780624\, a2^3\, b1^4\, c1^3\, c2\, a1$$
$$- 3251088\, a2^3\, b1^4\, c1\, c2^3\, a1 + 27108\, a2^3\, b1^3\, b2^5\, a1 + 159084\, a2^3\, b1^3\, b2^4\, c2\, a1$$
$$- 414528\, a2^3\, b1^3\, b2^3\, c1^2\, a1 + 249264\, a2^3\, b1^3\, b2^3\, c2^2\, a1$$
$$- 8426496\, a2^3\, b1^3\, b2^2\, c1^2\, c2\, a1 - 362016\, a2^3\, b1^3\, b2^2\, c2^3\, a1$$
$$+ 780624\, a2^3\, b1^3\, b2\, c1^4\, a1 + 4680576\, a2^3\, b1^3\, b2\, c1^2\, c2^2\, a1$$

$$+ 780624\, a2^3\, b1^3\, b2\, c2^4\, a1 - 599616\, a2^3\, b1^3\, c1^4\, c2\, a1 + 3251088\, a2^3\, b1^3\, c1^2\, c2^3\, a1$$
$$- 690768\, a2^3\, b1^3\, c2^5\, a1 - 334044\, a2^3\, b1^2\, b2^5\, c1\, a1 - 697140\, a2^3\, b1^2\, b2^4\, c1\, c2\, a1$$
$$+ 3251088\, a2^3\, b1^2\, b2^3\, c1^3\, a1 + 131760\, a2^3\, b1^2\, b2^3\, c1\, c2^2\, a1$$
$$+ 4680576\, a2^3\, b1^2\, b2^2\, c1^3\, c2\, a1 - 263520\, a2^3\, b1^2\, b2^2\, c1\, c2^3\, a1$$
$$- 725112\, a2^3\, b1^2\, b2\, c1^5\, a1 - 8426496\, a2^3\, b1^2\, b2\, c1^3\, c2^2\, a1$$
$$+ 65880\, a2^3\, b1^2\, b2\, c1\, c2^4\, a1 + 325944\, a2^3\, b1^2\, c1^5\, c2\, a1 - 414528\, a2^3\, b1^2\, c1^3\, c2^3\, a1$$
$$+ 933768\, a2^3\, b1^2\, c1\, c2^5\, a1 - 8964\, a2^3\, b1\, b2^7\, a1 + 35100\, a2^3\, b1\, b2^6\, c2\, a1$$
$$+ 933768\, a2^3\, b1\, b2^5\, c1^2\, a1 - 83376\, a2^3\, b1\, b2^5\, c2^2\, a1 + 65880\, a2^3\, b1\, b2^4\, c1^2\, c2\, a1$$
$$+ 65880\, a2^3\, b1\, b2^4\, c2^3\, a1 - 3251088\, a2^3\, b1\, b2^3\, c1^4\, a1 - 263520\, a2^3\, b1\, b2^3\, c1^2\, c2^2\, a1$$
$$- 131760\, a2^3\, b1\, b2^3\, c2^4\, a1 + 1872960\, a2^3\, b1\, b2^2\, c1^4\, c2\, a1$$
$$+ 131760\, a2^3\, b1\, b2^2\, c1^2\, c2^3\, a1 + 168912\, a2^3\, b1\, b2^2\, c2^5\, a1 + 445716\, a2^3\, b1\, b2\, c1^6\, a1$$
$$+ 3156564\, a2^3\, b1\, b2\, c1^4\, c2^2\, a1 - 697140\, a2^3\, b1\, b2\, c1^2\, c2^4\, a1$$
$$- 59508\, a2^3\, b1\, b2\, c2^6\, a1 - 154116\, a2^3\, b1\, c1^6\, c2\, a1 - 501876\, a2^3\, b1\, c1^4\, c2^3\, a1$$
$$- 334044\, a2^3\, b1\, c1^2\, c2^5\, a1 + 13716\, a2^3\, b1\, c2^7\, a1 + 13716\, a2^3\, b2^7\, c1\, a1$$
$$- 59508\, a2^3\, b2^6\, c1\, c2\, a1 - 690768\, a2^3\, b2^5\, c1^3\, a1 + 168912\, a2^3\, b2^5\, c1\, c2^2\, a1$$
$$+ 780624\, a2^3\, b2^4\, c1^3\, c2\, a1 - 131760\, a2^3\, b2^4\, c1\, c2^3\, a1 + 887784\, a2^3\, b2^3\, c1^5\, a1$$
$$- 362016\, a2^3\, b2^3\, c1^3\, c2^2\, a1 + 65880\, a2^3\, b2^3\, c1\, c2^4\, a1 - 1341600\, a2^3\, b2^2\, c1^5\, c2\, a1$$
$$+ 249264\, a2^3\, b2^2\, c1^3\, c2^3\, a1 - 83376\, a2^3\, b2^2\, c1\, c2^5\, a1 - 118476\, a2^3\, b2\, c1^7\, a1$$
$$+ 5508\, a2^3\, b2\, c1^5\, c2^2\, a1 + 159084\, a2^3\, b2\, c1^3\, c2^4\, a1 + 35100\, a2^3\, b2\, c1\, c2^6\, a1$$
$$+ 45036\, a2^3\, c1^7\, c2\, a1 + 81108\, a2^3\, c1^5\, c2^3\, a1 + 27108\, a2^3\, c1^3\, c2^5\, a1$$
$$- 8964\, a2^3\, c1\, c2^7\, a1 - 2916\, a2^2\, b1^9\, a1 + 17712\, a2^2\, b1^8\, c1\, a1 - 2916\, a2^2\, b1^7\, b2^2\, a1$$
$$- 129276\, a2^2\, b1^7\, b2\, c2\, a1 - 43848\, a2^2\, b1^7\, c1^2\, a1 + 242352\, a2^2\, b1^7\, c2^2\, a1$$
$$+ 148284\, a2^2\, b1^6\, b2^2\, c1\, a1 + 165780\, a2^2\, b1^6\, b2\, c1\, c2\, a1 + 51516\, a2^2\, b1^6\, c1^3\, a1$$
$$- 751464\, a2^2\, b1^6\, c1\, c2^2\, a1 + 8748\, a2^2\, b1^5\, b2^4\, a1 - 278316\, a2^2\, b1^5\, b2^3\, c2\, a1$$
$$- 449388\, a2^2\, b1^5\, b2^2\, c1^2\, a1 + 409212\, a2^2\, b1^5\, b2^2\, c2^2\, a1 - 79056\, a2^2\, b1^5\, b2\, c1^2\, c2\, a1$$
$$+ 1068792\, a2^2\, b1^5\, b2\, c2^3\, a1 - 22464\, a2^2\, b1^5\, c1^4\, a1 + 1127196\, a2^2\, b1^5\, c1^2\, c2^2\, a1$$
$$- 933036\, a2^2\, b1^5\, c2^4\, a1 + 229068\, a2^2\, b1^4\, b2^4\, c1\, a1 + 589356\, a2^2\, b1^4\, b2^3\, c1\, c2\, a1$$
$$+ 866484\, a2^2\, b1^4\, b2^2\, c1^3\, a1 - 5618880\, a2^2\, b1^4\, b2^2\, c1\, c2^2\, a1$$
$$+ 65880\, a2^2\, b1^4\, b2\, c1^3\, c2\, a1 + 1872960\, a2^2\, b1^4\, b2\, c1\, c2^3\, a1 - 22464\, a2^2\, b1^4\, c1^5\, a1$$
$$- 1203876\, a2^2\, b1^4\, c1^3\, c2^2\, a1 + 1970076\, a2^2\, b1^4\, c1\, c2^4\, a1 + 14580\, a2^2\, b1^3\, b2^6\, a1$$
$$- 168804\, a2^2\, b1^3\, b2^5\, c2\, a1 - 859248\, a2^2\, b1^3\, b2^4\, c1^2\, a1 + 183384\, a2^2\, b1^3\, b2^4\, c2^2\, a1$$
$$+ 4680576\, a2^2\, b1^3\, b2^3\, c1^2\, c2\, a1 - 493776\, a2^2\, b1^3\, b2^3\, c2^3\, a1$$
$$- 1203876\, a2^2\, b1^3\, b2^2\, c1^4\, a1 + 5618880\, a2^2\, b1^3\, b2^2\, c1^2\, c2^2\, a1$$
$$+ 641844\, a2^2\, b1^3\, b2^2\, c2^4\, a1 + 65880\, a2^2\, b1^3\, b2\, c1^4\, c2\, a1$$

$$- 8426496\, a2^2\, b1^3\, b2\, c1^2\, c2^3\, a1 - 725112\, a2^2\, b1^3\, b2\, c2^5\, a1 + 51516\, a2^2\, b1^3\, c1^6\, a1$$
$$+ 866484\, a2^2\, b1^3\, c1^4\, c2^2\, a1 - 331692\, a2^2\, b1^3\, c1^2\, c2^4\, a1 + 466236\, a2^2\, b1^3\, c2^6\, a1$$
$$+ 84132\, a2^2\, b1^2\, b2^6\, c1\, a1 + 497340\, a2^2\, b1^2\, b2^5\, c1\, c2\, a1 - 331692\, a2^2\, b1^2\, b2^4\, c1^3\, a1$$
$$- 197640\, a2^2\, b1^2\, b2^4\, c1\, c2^2\, a1 - 8426496\, a2^2\, b1^2\, b2^3\, c1^3\, c2\, a1$$
$$+ 131760\, a2^2\, b1^2\, b2^3\, c1\, c2^3\, a1 + 1127196\, a2^2\, b1^2\, b2^2\, c1^5\, a1$$
$$+ 5618880\, a2^2\, b1^2\, b2^2\, c1^3\, c2^2\, a1 + 98820\, a2^2\, b1^2\, b2^2\, c1\, c2^4\, a1$$
$$- 79056\, a2^2\, b1^2\, b2\, c1^5\, c2\, a1 + 4680576\, a2^2\, b1^2\, b2\, c1^3\, c2^3\, a1$$
$$- 79056\, a2^2\, b1^2\, b2\, c1\, c2^5\, a1 - 43848\, a2^2\, b1^2\, c1^7\, a1 - 449388\, a2^2\, b1^2\, c1^5\, c2^2\, a1$$
$$- 859248\, a2^2\, b1^2\, c1^3\, c2^4\, a1 - 453708\, a2^2\, b1^2\, c1\, c2^6\, a1 + 5832\, a2^2\, b1\, b2^8\, a1$$
$$- 19764\, a2^2\, b1\, b2^7\, c2\, a1 - 453708\, a2^2\, b1\, b2^6\, c1^2\, a1 + 16524\, a2^2\, b1\, b2^6\, c2^2\, a1$$
$$- 79056\, a2^2\, b1\, b2^5\, c1^2\, c2\, a1 + 50328\, a2^2\, b1\, b2^5\, c2^3\, a1 + 1970076\, a2^2\, b1\, b2^4\, c1^4\, a1$$
$$+ 98820\, a2^2\, b1\, b2^4\, c1^2\, c2^2\, a1 - 112320\, a2^2\, b1\, b2^4\, c2^4\, a1$$
$$+ 1872960\, a2^2\, b1\, b2^3\, c1^4\, c2\, a1 + 131760\, a2^2\, b1\, b2^3\, c1^2\, c2^3\, a1$$
$$+ 168912\, a2^2\, b1\, b2^3\, c2^5\, a1 - 751464\, a2^2\, b1\, b2^2\, c1^6\, a1$$
$$- 5618880\, a2^2\, b1\, b2^2\, c1^4\, c2^2\, a1 - 197640\, a2^2\, b1\, b2^2\, c1^2\, c2^4\, a1$$
$$- 168912\, a2^2\, b1\, b2^2\, c2^6\, a1 + 165780\, a2^2\, b1\, b2\, c1^6\, c2\, a1$$
$$+ 589356\, a2^2\, b1\, b2\, c1^4\, c2^3\, a1 + 497340\, a2^2\, b1\, b2\, c1^2\, c2^5\, a1 + 73764\, a2^2\, b1\, b2\, c2^7\, a1$$
$$+ 17712\, a2^2\, b1\, c1^8\, a1 + 148284\, a2^2\, b1\, c1^6\, c2^2\, a1 + 229068\, a2^2\, b1\, c1^4\, c2^4\, a1$$
$$+ 84132\, a2^2\, b1\, c1^2\, c2^6\, a1 - 14364\, a2^2\, b1\, c2^8\, a1 - 14364\, a2^2\, b2^8\, c1\, a1$$
$$+ 73764\, a2^2\, b2^7\, c1\, c2\, a1 + 466236\, a2^2\, b2^6\, c1^3\, a1 - 168912\, a2^2\, b2^6\, c1\, c2^2\, a1$$
$$- 725112\, a2^2\, b2^5\, c1^3\, c2\, a1 + 168912\, a2^2\, b2^5\, c1\, c2^3\, a1 - 933036\, a2^2\, b2^4\, c1^5\, a1$$
$$+ 641844\, a2^2\, b2^4\, c1^3\, c2^2\, a1 - 112320\, a2^2\, b2^4\, c1\, c2^4\, a1 + 1068792\, a2^2\, b2^3\, c1^5\, c2\, a1$$
$$- 493776\, a2^2\, b2^3\, c1^3\, c2^3\, a1 + 50328\, a2^2\, b2^3\, c1\, c2^5\, a1 + 242352\, a2^2\, b2^2\, c1^7\, a1$$
$$+ 409212\, a2^2\, b2^2\, c1^5\, c2^2\, a1 + 183384\, a2^2\, b2^2\, c1^3\, c2^4\, a1 + 16524\, a2^2\, b2^2\, c1\, c2^6\, a1$$
$$- 129276\, a2^2\, b2\, c1^7\, c2\, a1 - 278316\, a2^2\, b2\, c1^5\, c2^3\, a1 - 168804\, a2^2\, b2\, c1^3\, c2^5\, a1$$
$$- 19764\, a2^2\, b2\, c1\, c2^7\, a1 - 2916\, a2^2\, c1^9\, a1 - 2916\, a2^2\, c1^7\, c2^2\, a1$$
$$+ 8748\, a2^2\, c1^5\, c2^4\, a1 + 14580\, a2^2\, c1^3\, c2^6\, a1 + 5832\, a2^2\, c1\, c2^8\, a1 - 1458\, a2\, b1^9\, b2\, a1$$
$$+ 7290\, a2\, b1^9\, c2\, a1 + 1458\, a2\, b1^8\, b2\, c1\, a1 - 36882\, a2\, b1^8\, c1\, c2\, a1$$
$$- 5832\, a2\, b1^7\, b2^3\, a1 + 23328\, a2\, b1^7\, b2^2\, c2\, a1 + 13932\, a2\, b1^7\, b2\, c1^2\, a1$$
$$+ 105948\, a2\, b1^7\, b2\, c2^2\, a1 + 73764\, a2\, b1^7\, c1^2\, c2\, a1 - 196884\, a2\, b1^7\, c2^3\, a1$$
$$+ 11664\, a2\, b1^6\, b2^3\, c1\, a1 - 331560\, a2\, b1^6\, b2^2\, c1\, c2\, a1 - 43524\, a2\, b1^6\, b2\, c1^3\, a1$$
$$+ 165780\, a2\, b1^6\, b2\, c1\, c2^2\, a1 - 59508\, a2\, b1^6\, c1^3\, c2\, a1 + 445716\, a2\, b1^6\, c1\, c2^3\, a1$$
$$- 8748\, a2\, b1^5\, b2^5\, a1 + 26244\, a2\, b1^5\, b2^4\, c2\, a1 + 133812\, a2\, b1^5\, b2^3\, c1^2\, a1$$
$$+ 225828\, a2\, b1^5\, b2^3\, c2^2\, a1 + 497340\, a2\, b1^5\, b2^2\, c1^2\, c2\, a1 - 498636\, a2\, b1^5\, b2^2\, c2^3\, a1$$

$$+ 40122\, a2\, b1^5\, b2\, c1^4\, a1 - 418284\, a2\, b1^5\, b2\, c1^2\, c2^2\, a1 - 285078\, a2\, b1^5\, b2\, c2^4\, a1$$
$$+ 4806\, a2\, b1^5\, c1^4\, c2\, a1 - 612036\, a2\, b1^5\, c1^2\, c2^3\, a1 + 430230\, a2\, b1^5\, c2^5\, a1$$
$$+ 26244\, a2\, b1^4\, b2^5\, c1\, a1 - 589356\, a2\, b1^4\, b2^4\, c1\, c2\, a1 - 345276\, a2\, b1^4\, b2^3\, c1^3\, a1$$
$$+ 589356\, a2\, b1^4\, b2^3\, c1\, c2^2\, a1 - 697140\, a2\, b1^4\, b2^2\, c1^3\, c2\, a1$$
$$+ 3156564\, a2\, b1^4\, b2^2\, c1\, c2^3\, a1 + 4806\, a2\, b1^4\, b2\, c1^5\, a1 + 631260\, a2\, b1^4\, b2\, c1^3\, c2^2\, a1$$
$$- 2514762\, a2\, b1^4\, b2\, c1\, c2^4\, a1 + 40122\, a2\, b1^4\, c1^5\, c2\, a1 + 592164\, a2\, b1^4\, c1^3\, c2^3\, a1$$
$$- 285078\, a2\, b1^4\, c1\, c2^5\, a1 - 5832\, a2\, b1^3\, b2^7\, a1 + 11664\, a2\, b1^3\, b2^6\, c2\, a1$$
$$+ 225828\, a2\, b1^3\, b2^5\, c1^2\, a1 + 133812\, a2\, b1^3\, b2^5\, c2^2\, a1 + 589356\, a2\, b1^3\, b2^4\, c1^2\, c2\, a1$$
$$- 345276\, a2\, b1^3\, b2^4\, c2^3\, a1 + 592164\, a2\, b1^3\, b2^3\, c1^4\, a1$$
$$- 5859288\, a2\, b1^3\, b2^3\, c1^2\, c2^2\, a1 + 592164\, a2\, b1^3\, b2^3\, c2^4\, a1$$
$$+ 631260\, a2\, b1^3\, b2^2\, c1^4\, c2\, a1 + 2113368\, a2\, b1^3\, b2^2\, c1^2\, c2^3\, a1$$
$$- 612036\, a2\, b1^3\, b2^2\, c2^5\, a1 - 59508\, a2\, b1^3\, b2\, c1^6\, a1 - 697140\, a2\, b1^3\, b2\, c1^4\, c2^2\, a1$$
$$+ 3156564\, a2\, b1^3\, b2\, c1^2\, c2^4\, a1 + 445716\, a2\, b1^3\, b2\, c2^6\, a1 - 43524\, a2\, b1^3\, c1^6\, c2\, a1$$
$$- 345276\, a2\, b1^3\, c1^4\, c2^3\, a1 - 498636\, a2\, b1^3\, c1^2\, c2^5\, a1 - 196884\, a2\, b1^3\, c2^7\, a1$$
$$+ 23328\, a2\, b1^2\, b2^7\, c1\, a1 - 331560\, a2\, b1^2\, b2^6\, c1\, c2\, a1 - 498636\, a2\, b1^2\, b2^5\, c1^3\, a1$$
$$+ 497340\, a2\, b1^2\, b2^5\, c1\, c2^2\, a1 + 3156564\, a2\, b1^2\, b2^4\, c1^3\, c2\, a1$$
$$- 697140\, a2\, b1^2\, b2^4\, c1\, c2^3\, a1 - 612036\, a2\, b1^2\, b2^3\, c1^5\, a1$$
$$+ 2113368\, a2\, b1^2\, b2^3\, c1^3\, c2^2\, a1 + 631260\, a2\, b1^2\, b2^3\, c1\, c2^4\, a1$$
$$- 418284\, a2\, b1^2\, b2^2\, c1^5\, c2\, a1 - 5859288\, a2\, b1^2\, b2^2\, c1^3\, c2^3\, a1$$
$$- 418284\, a2\, b1^2\, b2^2\, c1\, c2^5\, a1 + 73764\, a2\, b1^2\, b2\, c1^7\, a1 + 497340\, a2\, b1^2\, b2\, c1^5\, c2^2\, a1$$
$$+ 589356\, a2\, b1^2\, b2\, c1^3\, c2^4\, a1 + 165780\, a2\, b1^2\, b2\, c1\, c2^6\, a1 + 13932\, a2\, b1^2\, c1^7\, c2\, a1$$
$$+ 133812\, a2\, b1^2\, c1^5\, c2^3\, a1 + 225828\, a2\, b1^2\, c1^3\, c2^5\, a1 + 105948\, a2\, b1^2\, c1\, c2^7\, a1$$
$$- 1458\, a2\, b1\, b2^9\, a1 + 1458\, a2\, b1\, b2^8\, c2\, a1 + 105948\, a2\, b1\, b2^7\, c1^2\, a1$$
$$+ 13932\, a2\, b1\, b2^7\, c2^2\, a1 + 165780\, a2\, b1\, b2^6\, c1^2\, c2\, a1 - 43524\, a2\, b1\, b2^6\, c2^3\, a1$$
$$- 285078\, a2\, b1\, b2^5\, c1^4\, a1 - 418284\, a2\, b1\, b2^5\, c1^2\, c2^2\, a1 + 40122\, a2\, b1\, b2^5\, c2^4\, a1$$
$$- 2514762\, a2\, b1\, b2^4\, c1^4\, c2\, a1 + 631260\, a2\, b1\, b2^4\, c1^2\, c2^3\, a1 + 4806\, a2\, b1\, b2^4\, c2^5\, a1$$
$$+ 445716\, a2\, b1\, b2^3\, c1^6\, a1 + 3156564\, a2\, b1\, b2^3\, c1^4\, c2^2\, a1$$
$$- 697140\, a2\, b1\, b2^3\, c1^2\, c2^4\, a1 - 59508\, a2\, b1\, b2^3\, c2^6\, a1 + 165780\, a2\, b1\, b2^2\, c1^6\, c2\, a1$$
$$+ 589356\, a2\, b1\, b2^2\, c1^4\, c2^3\, a1 + 497340\, a2\, b1\, b2^2\, c1^2\, c2^5\, a1 + 73764\, a2\, b1\, b2^2\, c2^7\, a1$$
$$- 36882\, a2\, b1\, b2\, c1^8\, a1 - 331560\, a2\, b1\, b2\, c1^6\, c2^2\, a1 - 589356\, a2\, b1\, b2\, c1^4\, c2^4\, a1$$
$$- 331560\, a2\, b1\, b2\, c1^2\, c2^6\, a1 - 36882\, a2\, b1\, b2\, c2^8\, a1 + 1458\, a2\, b1\, c1^8\, c2\, a1$$
$$+ 11664\, a2\, b1\, c1^6\, c2^3\, a1 + 26244\, a2\, b1\, c1^4\, c2^5\, a1 + 23328\, a2\, b1\, c1^2\, c2^7\, a1$$
$$+ 7290\, a2\, b1\, c2^9\, a1 + 7290\, a2\, b2^9\, c1\, a1 - 36882\, a2\, b2^8\, c1\, c2\, a1$$
$$- 196884\, a2\, b2^7\, c1^3\, a1 + 73764\, a2\, b2^7\, c1\, c2^2\, a1 + 445716\, a2\, b2^6\, c1^3\, c2\, a1$$

$$- 59508\, a2\, b2^6\, c1\, c2^3\, a1 + 430230\, a2\, b2^5\, c1^5\, a1 - 612036\, a2\, b2^5\, c1^3\, c2^2\, a1$$
$$+ 4806\, a2\, b2^5\, c1\, c2^4\, a1 - 285078\, a2\, b2^4\, c1^5\, c2\, a1 + 592164\, a2\, b2^4\, c1^3\, c2^3\, a1$$
$$+ 40122\, a2\, b2^4\, c1\, c2^5\, a1 - 196884\, a2\, b2^3\, c1^7\, a1 - 498636\, a2\, b2^3\, c1^5\, c2^2\, a1$$
$$- 345276\, a2\, b2^3\, c1^3\, c2^4\, a1 - 43524\, a2\, b2^3\, c1\, c2^6\, a1 + 105948\, a2\, b2^2\, c1^7\, c2\, a1$$
$$+ 225828\, a2\, b2^2\, c1^5\, c2^3\, a1 + 133812\, a2\, b2^2\, c1^3\, c2^5\, a1 + 13932\, a2\, b2^2\, c1\, c2^7\, a1$$
$$+ 7290\, a2\, b2\, c1^9\, a1 + 23328\, a2\, b2\, c1^7\, c2^2\, a1 + 26244\, a2\, b2\, c1^5\, c2^4\, a1$$
$$+ 11664\, a2\, b2\, c1^3\, c2^6\, a1 + 1458\, a2\, b2\, c1\, c2^8\, a1 - 1458\, a2\, c1^9\, c2\, a1$$
$$- 5832\, a2\, c1^7\, c2^3\, a1 - 8748\, a2\, c1^5\, c2^5\, a1 - 5832\, a2\, c1^3\, c2^7\, a1 - 1458\, a2\, c1\, c2^9\, a1$$
$$+ 1458\, b2\, b1^9\, c2\, a1 - 4374\, b1^9\, c2^2\, a1 - 1458\, b1^8\, b2^2\, c1\, a1 + 1458\, c1\, b2\, b1^8\, c2\, a1$$
$$+ 432\, c1^3\, b1^8\, a1 + 17712\, c1\, b1^8\, c2^2\, a1 + 5832\, b2^3\, b1^7\, c2\, a1 + 2916\, b1^7\, b2^2\, c1^2\, a1$$
$$- 20412\, b1^7\, b2^2\, c2^2\, a1 - 19764\, c1^2\, b2\, b1^7\, c2\, a1 - 21708\, b2\, b1^7\, c2^3\, a1$$
$$- 1296\, c1^4\, b1^7\, a1 - 27000\, c1^2\, b1^7\, c2^2\, a1 + 54648\, b1^7\, c2^4\, a1 - 5832\, b1^6\, b2^4\, c1\, a1$$
$$+ 11664\, c1\, b2^3\, b1^6\, c2\, a1 + 4212\, b1^6\, b2^2\, c1^3\, a1 + 148284\, b1^6\, b2^2\, c1\, c2^2\, a1$$
$$+ 35100\, c1^3\, b2\, b1^6\, c2\, a1 - 154116\, c1\, b2\, b1^6\, c2^3\, a1 + 864\, c1^5\, b1^6\, a1$$
$$+ 12204\, c1^3\, b1^6\, c2^2\, a1 - 72900\, c1\, b1^6\, c2^4\, a1 + 8748\, b2^5\, b1^5\, c2\, a1$$
$$+ 8748\, b1^5\, b2^4\, c1^2\, a1 - 34992\, b1^5\, b2^4\, c2^2\, a1 - 168804\, c1^2\, b2^3\, b1^5\, c2\, a1$$
$$- 28620\, b2^3\, b1^5\, c2^3\, a1 - 14580\, b1^5\, b2^2\, c1^4\, a1 + 4536\, b1^5\, b2^2\, c1^2\, c2^2\, a1$$
$$+ 146124\, b1^5\, b2^2\, c2^4\, a1 - 10962\, c1^4\, b2\, b1^5\, c2\, a1 + 136404\, c1^2\, b2\, b1^5\, c2^3\, a1$$
$$- 1434\, b2\, b1^5\, c2^5\, a1 + 864\, c1^6\, b1^5\, a1 + 3078\, c1^4\, b1^5\, c2^2\, a1 + 118908\, c1^2\, b1^5\, c2^4\, a1$$
$$- 71466\, b1^5\, c2^6\, a1 - 8748\, b1^4\, b2^6\, c1\, a1 + 26244\, c1\, b2^5\, b1^4\, c2\, a1$$
$$+ 46548\, b1^4\, b2^4\, c1^3\, a1 + 229068\, b1^4\, b2^4\, c1\, c2^2\, a1 + 159084\, c1^3\, b2^3\, b1^4\, c2\, a1$$
$$- 501876\, c1\, b2^3\, b1^4\, c2^3\, a1 + 3078\, b1^4\, b2^2\, c1^5\, a1 + 109944\, b1^4\, b2^2\, c1^3\, c2^2\, a1$$
$$- 412734\, b1^4\, b2^2\, c1\, c2^4\, a1 - 10962\, c1^5\, b2\, b1^4\, c2\, a1 - 283716\, c1^3\, b2\, b1^4\, c2^3\, a1$$
$$+ 668046\, c1\, b2\, b1^4\, c2^5\, a1 - 1296\, c1^7\, b1^4\, a1 - 14580\, c1^5\, b1^4\, c2^2\, a1$$
$$- 77112\, c1^3\, b1^4\, c2^4\, a1 - 63828\, c1\, b1^4\, c2^6\, a1 + 5832\, b2^7\, b1^3\, c2\, a1$$
$$+ 8748\, b1^3\, b2^6\, c1^2\, a1 - 26244\, b1^3\, b2^6\, c2^2\, a1 - 278316\, c1^2\, b2^5\, b1^3\, c2\, a1$$
$$+ 7884\, b2^5\, b1^3\, c2^3\, a1 - 77112\, b1^3\, b2^4\, c1^4\, a1 + 401112\, b1^3\, b2^4\, c1^2\, c2^2\, a1$$
$$+ 76464\, b1^3\, b2^4\, c2^4\, a1 - 283716\, c1^4\, b2^3\, b1^3\, c2\, a1 + 1418280\, c1^2\, b2^3\, b1^3\, c2^3\, a1$$
$$- 179604\, b2^3\, b1^3\, c2^5\, a1 + 12204\, b1^3\, b2^2\, c1^6\, a1 + 109944\, b1^3\, b2^2\, c1^4\, c2^2\, a1$$
$$- 1592052\, c1^2\, b2^2\, b1^3\, c2^4\, a1 + 191808\, b2^2\, b1^3\, c2^6\, a1 + 35100\, c1^6\, b2\, b1^3\, c2\, a1$$
$$+ 159084\, c1^4\, b2\, b1^3\, c2^3\, a1 + 5508\, c1^2\, b2\, b1^3\, c2^5\, a1 - 118476\, b2\, b1^3\, c2^7\, a1$$
$$+ 432\, c1^8\, b1^3\, a1 + 4212\, c1^6\, b1^3\, c2^2\, a1 + 46548\, c1^4\, b1^3\, c2^4\, a1 + 82188\, c1^2\, b1^3\, c2^6\, a1$$
$$+ 39420\, b1^3\, c2^8\, a1 - 5832\, b1^2\, b2^8\, c1\, a1 + 23328\, c1\, b2^7\, b1^2\, c2\, a1$$
$$+ 82188\, b1^2\, b2^6\, c1^3\, a1 + 84132\, b1^2\, b2^6\, c1\, c2^2\, a1 + 5508\, c1^3\, b2^5\, b1^2\, c2\, a1$$

$$- 334044\, c1\, b2^5\, b1^2\, c2^3\, a1 + 118908\, b1^2\, b2^4\, c1^5\, a1 - 1592052\, b1^2\, b2^4\, c1^3\, c2^2\, a1$$
$$+ 591840\, b1^2\, b2^4\, c1\, c2^4\, a1 + 136404\, c1^5\, b2^3\, b1^2\, c2\, a1 + 1418280\, c1^3\, b2^3\, b1^2\, c2^3\, a1$$
$$- 599724\, c1\, b2^3\, b1^2\, c2^5\, a1 - 27000\, b1^2\, b2^2\, c1^7\, a1 + 4536\, b1^2\, b2^2\, c1^5\, c2^2\, a1$$
$$+ 401112\, b1^2\, b2^2\, c1^3\, c2^4\, a1 + 369576\, c1\, b2^2\, b1^2\, c2^6\, a1 - 19764\, c1^7\, b2\, b1^2\, c2\, a1$$
$$- 168804\, c1^5\, b2\, b1^2\, c2^3\, a1 - 278316\, c1^3\, b2\, b1^2\, c2^5\, a1 - 129276\, c1\, b2\, b1^2\, c2^7\, a1$$
$$+ 2916\, c1^7\, b1^2\, c2^2\, a1 + 8748\, c1^5\, b1^2\, c2^4\, a1 + 8748\, c1^3\, b1^2\, c2^6\, a1 + 2916\, b1^2\, c1\, c2^8\, a1$$
$$+ 1458\, b2^9\, b1\, c2\, a1 + 2916\, b1\, b2^8\, c1^2\, a1 - 7290\, b1\, b2^8\, c2^2\, a1$$
$$- 129276\, c1^2\, b2^7\, b1\, c2\, a1 + 14796\, b2^7\, b1\, c2^3\, a1 - 63828\, b1\, b2^6\, c1^4\, a1$$
$$+ 369576\, b1\, b2^6\, c1^2\, c2^2\, a1 - 15012\, b1\, b2^6\, c2^4\, a1 + 668046\, c1^4\, b2^5\, b1\, c2\, a1$$
$$- 599724\, c1^2\, b2^5\, b1\, c2^3\, a1 + 9990\, b2^5\, b1\, c2^5\, a1 - 72900\, b1\, b2^4\, c1^6\, a1$$
$$- 412734\, b1\, b2^4\, c1^4\, c2^2\, a1 + 591840\, b1\, b2^4\, c1^2\, c2^4\, a1 - 9126\, b1\, b2^4\, c2^6\, a1$$
$$- 154116\, c1^6\, b2^3\, b1\, c2\, a1 - 501876\, c1^4\, b2^3\, b1\, c2^3\, a1 - 334044\, c1^2\, b2^3\, b1\, c2^5\, a1$$
$$+ 13716\, b2^3\, b1\, c2^7\, a1 + 17712\, b1\, b2^2\, c1^8\, a1 + 148284\, b1\, b2^2\, c1^6\, c2^2\, a1$$
$$+ 229068\, b1\, b2^2\, c1^4\, c2^4\, a1 + 84132\, c1^2\, b2^2\, b1\, c2^6\, a1 - 14364\, b2^2\, b1\, c2^8\, a1$$
$$+ 1458\, c1^8\, b2\, b1\, c2\, a1 + 11664\, c1^6\, b2\, b1\, c2^3\, a1 + 26244\, c1^4\, b2\, b1\, c2^5\, a1$$
$$+ 23328\, c1^2\, b2\, b1\, c2^7\, a1 + 7290\, b1\, b2\, c2^9\, a1 - 1458\, c1^8\, b1\, c2^2\, a1$$
$$- 5832\, c1^6\, b1\, c2^4\, a1 - 8748\, c1^4\, b1\, c2^6\, a1 - 5832\, b1\, c1^2\, c2^8\, a1 - 1458\, b1\, c2^{10}\, a1$$
$$- 1458\, b2^{10}\, c1\, a1 + 7290\, c1\, b2^9\, c2\, a1 + 39420\, b2^8\, c1^3\, a1 - 14364\, b2^8\, c1\, c2^2\, a1$$
$$- 118476\, c1^3\, b2^7\, c2\, a1 + 13716\, c1\, b2^7\, c2^3\, a1 - 71466\, b2^6\, c1^5\, a1$$
$$+ 191808\, b2^6\, c1^3\, c2^2\, a1 - 9126\, b2^6\, c1\, c2^4\, a1 - 1434\, c1^5\, b2^5\, c2\, a1$$
$$- 179604\, c1^3\, b2^5\, c2^3\, a1 + 9990\, c1\, b2^5\, c2^5\, a1 + 54648\, b2^4\, c1^7\, a1$$
$$+ 146124\, b2^4\, c1^5\, c2^2\, a1 + 76464\, b2^4\, c1^3\, c2^4\, a1 - 15012\, b2^4\, c1\, c2^6\, a1$$
$$- 21708\, c1^7\, b2^3\, c2\, a1 - 28620\, c1^5\, b2^3\, c2^3\, a1 + 7884\, c1^3\, b2^3\, c2^5\, a1$$
$$+ 14796\, c1\, b2^3\, c2^7\, a1 - 4374\, b2^2\, c1^9\, a1 - 20412\, b2^2\, c1^7\, c2^2\, a1 - 34992\, b2^2\, c1^5\, c2^4\, a1$$
$$- 26244\, c1^3\, b2^2\, c2^6\, a1 - 7290\, c1\, b2^2\, c2^8\, a1 + 1458\, c1^9\, b2\, c2\, a1 + 5832\, c1^7\, b2\, c2^3\, a1$$
$$+ 8748\, c1^5\, b2\, c2^5\, a1 + 5832\, c1^3\, b2\, c2^7\, a1 + 1458\, b2\, c1\, c2^9\, a1 + 729\, a2^{10}\, b1^2$$
$$- 1458\, a2^{10}\, b1\, c1 + 729\, a2^{10}\, c1^2 - 2916\, a2^9\, b1^2\, b2 - 4374\, a2^9\, b1^2\, c2$$
$$+ 7290\, a2^9\, b1\, b2\, c1 + 7290\, a2^9\, b1\, c1\, c2 - 4374\, a2^9\, b2\, c1^2 - 2916\, a2^9\, c1^2\, c2$$
$$- 9126\, a2^8\, b1^4 + 39420\, a2^8\, b1^3\, c1 + 4266\, a2^8\, b1^2\, b2^2 + 17712\, a2^8\, b1^2\, b2\, c2$$
$$- 60588\, a2^8\, b1^2\, c1^2 + 10827\, a2^8\, b1^2\, c2^2 - 14364\, a2^8\, b1\, b2^2\, c1$$
$$- 36882\, a2^8\, b1\, b2\, c1\, c2 + 39420\, a2^8\, b1\, c1^3 - 14364\, a2^8\, b1\, c1\, c2^2 - 108\, a2^8\, b2^4$$
$$+ 432\, a2^8\, b2^3\, c2 + 10827\, a2^8\, b2^2\, c1^2 - 648\, a2^8\, b2^2\, c2^2 + 17712\, a2^8\, b2\, c1^2\, c2$$
$$+ 432\, a2^8\, b2\, c2^3 - 9126\, a2^8\, c1^4 + 4266\, a2^8\, c1^2\, c2^2 - 108\, a2^8\, c2^4 + 18360\, a2^7\, b1^4\, b2$$
$$+ 54648\, a2^7\, b1^4\, c2 - 118476\, a2^7\, b1^3\, b2\, c1 - 196884\, a2^7\, b1^3\, c1\, c2 - 2376\, a2^7\, b1^2\, b2^3$$

$$- 27000\, a2^7\, b1^2\, b2^2\, c2 + 242352\, a2^7\, b1^2\, b2\, c1^2 - 43848\, a2^7\, b1^2\, b2\, c2^2$$
$$+ 242352\, a2^7\, b1^2\, c1^2\, c2 - 14256\, a2^7\, b1^2\, c2^3 + 13716\, a2^7\, b1\, b2^3\, c1$$
$$+ 73764\, a2^7\, b1\, b2^2\, c1\, c2 - 196884\, a2^7\, b1\, b2\, c1^3 + 73764\, a2^7\, b1\, b2\, c1\, c2^2$$
$$- 118476\, a2^7\, b1\, c1^3\, c2 + 13716\, a2^7\, b1\, c1\, c2^3 + 432\, a2^7\, b2^5 - 1296\, a2^7\, b2^4\, c2$$
$$- 14256\, a2^7\, b2^3\, c1^2 + 864\, a2^7\, b2^3\, c2^2 - 43848\, a2^7\, b2^2\, c1^2\, c2 + 864\, a2^7\, b2^2\, c2^3$$
$$+ 54648\, a2^7\, b2\, c1^4 - 27000\, a2^7\, b2\, c1^2\, c2^2 - 1296\, a2^7\, b2\, c2^4 + 18360\, a2^7\, c1^4\, c2$$
$$- 2376\, a2^7\, c1^2\, c2^3 + 432\, a2^7\, c2^5 + 8851\, a2^6\, b1^6 - 71466\, a2^6\, b1^5\, c1$$
$$- 27810\, a2^6\, b1^4\, b2^2 - 72900\, a2^6\, b1^4\, b2\, c2 + 210579\, a2^6\, b1^4\, c1^2 - 154818\, a2^6\, b1^4\, c2^2$$
$$+ 191808\, a2^6\, b1^3\, b2^2\, c1 + 445716\, a2^6\, b1^3\, b2\, c1\, c2 - 295928\, a2^6\, b1^3\, c1^3$$
$$+ 466236\, a2^6\, b1^3\, c1\, c2^2 + 1107\, a2^6\, b1^2\, b2^4 + 12204\, a2^6\, b1^2\, b2^3\, c2$$
$$- 472500\, a2^6\, b1^2\, b2^2\, c1^2 + 76194\, a2^6\, b1^2\, b2^2\, c2^2 - 751464\, a2^6\, b1^2\, b2\, c1^2\, c2$$
$$+ 51516\, a2^6\, b1^2\, b2\, c2^3 + 210579\, a2^6\, b1^2\, c1^4 - 472500\, a2^6\, b1^2\, c1^2\, c2^2$$
$$+ 12069\, a2^6\, b1^2\, c2^4 - 9126\, a2^6\, b1\, b2^4\, c1 - 59508\, a2^6\, b1\, b2^3\, c1\, c2$$
$$+ 466236\, a2^6\, b1\, b2^2\, c1^3 - 168912\, a2^6\, b1\, b2^2\, c1\, c2^2 + 445716\, a2^6\, b1\, b2\, c1^3\, c2$$
$$- 59508\, a2^6\, b1\, b2\, c1\, c2^3 - 71466\, a2^6\, b1\, c1^5 + 191808\, a2^6\, b1\, c1^3\, c2^2$$
$$- 9126\, a2^6\, b1\, c1\, c2^4 - 648\, a2^6\, b2^6 + 864\, a2^6\, b2^5\, c2 + 12069\, a2^6\, b2^4\, c1^2$$
$$+ 2376\, a2^6\, b2^4\, c2^2 + 51516\, a2^6\, b2^3\, c1^2\, c2 - 5184\, a2^6\, b2^3\, c2^3 - 154818\, a2^6\, b2^2\, c1^4$$
$$+ 76194\, a2^6\, b2^2\, c1^2\, c2^2 + 2376\, a2^6\, b2^2\, c2^4 - 72900\, a2^6\, b2\, c1^4\, c2$$
$$+ 12204\, a2^6\, b2\, c1^2\, c2^3 + 864\, a2^6\, b2\, c2^5 + 8851\, a2^6\, c1^6 - 27810\, a2^6\, c1^4\, c2^2$$
$$+ 1107\, a2^6\, c1^2\, c2^4 - 648\, a2^6\, c2^6 + 18360\, a2^5\, b1^6\, b2 - 71466\, a2^5\, b1^6\, c2$$
$$- 1434\, a2^5\, b1^5\, b2\, c1 + 430230\, a2^5\, b1^5\, c1\, c2 + 15984\, a2^5\, b1^4\, b2^3$$
$$+ 118908\, a2^5\, b1^4\, b2^2\, c2 - 330438\, a2^5\, b1^4\, b2\, c1^2 + 99792\, a2^5\, b1^4\, b2\, c2^2$$
$$- 933036\, a2^5\, b1^4\, c1^2\, c2 + 276372\, a2^5\, b1^4\, c2^3 - 179604\, a2^5\, b1^3\, b2^3\, c1$$
$$- 612036\, a2^5\, b1^3\, b2^2\, c1\, c2 + 887784\, a2^5\, b1^3\, b2\, c1^3 - 725112\, a2^5\, b1^3\, b2\, c1\, c2^2$$
$$+ 887784\, a2^5\, b1^3\, c1^3\, c2 - 690768\, a2^5\, b1^3\, c1\, c2^3 - 1944\, a2^5\, b1^2\, b2^5$$
$$+ 3078\, a2^5\, b1^2\, b2^4\, c2 + 569268\, a2^5\, b1^2\, b2^3\, c1^2 - 42768\, a2^5\, b1^2\, b2^3\, c2^2$$
$$+ 1127196\, a2^5\, b1^2\, b2^2\, c1^2\, c2 - 109620\, a2^5\, b1^2\, b2^2\, c2^3 - 933036\, a2^5\, b1^2\, b2\, c1^4$$
$$+ 1127196\, a2^5\, b1^2\, b2\, c1^2\, c2^2 - 22464\, a2^5\, b1^2\, b2\, c2^4 - 330438\, a2^5\, b1^2\, c1^4\, c2$$
$$+ 569268\, a2^5\, b1^2\, c1^2\, c2^3 - 9990\, a2^5\, b1^2\, c2^5 + 9990\, a2^5\, b1\, b2^5\, c1$$
$$+ 4806\, a2^5\, b1\, b2^4\, c1\, c2 - 690768\, a2^5\, b1\, b2^3\, c1^3 + 168912\, a2^5\, b1\, b2^3\, c1\, c2^2$$
$$- 725112\, a2^5\, b1\, b2^2\, c1^3\, c2 + 168912\, a2^5\, b1\, b2^2\, c1\, c2^3 + 430230\, a2^5\, b1\, b2\, c1^5$$
$$- 612036\, a2^5\, b1\, b2\, c1^3\, c2^2 + 4806\, a2^5\, b1\, b2\, c1\, c2^4 - 1434\, a2^5\, b1\, c1^5\, c2$$
$$- 179604\, a2^5\, b1\, c1^3\, c2^3 + 9990\, a2^5\, b1\, c1\, c2^5 + 432\, a2^5\, b2^7 + 864\, a2^5\, b2^6\, c2$$
$$- 9990\, a2^5\, b2^5\, c1^2 - 5184\, a2^5\, b2^5\, c2^2 - 22464\, a2^5\, b2^4\, c1^2\, c2 + 3888\, a2^5\, b2^4\, c2^3$$

$$+ 276372\, a2^5\, b2^3\, c1^4 - 109620\, a2^5\, b2^3\, c1^2\, c2^2 + 3888\, a2^5\, b2^3\, c2^4$$
$$+ 99792\, a2^5\, b2^2\, c1^4\, c2 - 42768\, a2^5\, b2^2\, c1^2\, c2^3 - 5184\, a2^5\, b2^2\, c2^5 - 71466\, a2^5\, b2\, c1^6$$
$$+ 118908\, a2^5\, b2\, c1^4\, c2^2 + 3078\, a2^5\, b2\, c1^2\, c2^4 + 864\, a2^5\, b2\, c2^6 + 18360\, a2^5\, c1^6\, c2$$
$$+ 15984\, a2^5\, c1^4\, c2^3 - 1944\, a2^5\, c1^2\, c2^5 + 432\, a2^5\, c2^7 - 9126\, a2^4\, b1^8$$
$$+ 54648\, a2^4\, b1^7\, c1 - 13986\, a2^4\, b1^6\, b2^2 - 63828\, a2^4\, b1^6\, b2\, c2 - 154818\, a2^4\, b1^6\, c1^2$$
$$+ 210579\, a2^4\, b1^6\, c2^2 + 146124\, a2^4\, b1^5\, b2^2\, c1 - 285078\, a2^4\, b1^5\, b2\, c1\, c2$$
$$+ 276372\, a2^4\, b1^5\, c1^3 - 933036\, a2^4\, b1^5\, c1\, c2^2 - 702\, a2^4\, b1^4\, b2^4$$
$$- 77112\, a2^4\, b1^4\, b2^3\, c2 - 158943\, a2^4\, b1^4\, b2^2\, c1^2 - 181602\, a2^4\, b1^4\, b2^2\, c2^2$$
$$+ 1970076\, a2^4\, b1^4\, b2\, c1^2\, c2 - 45252\, a2^4\, b1^4\, b2\, c2^3 - 334152\, a2^4\, b1^4\, c1^4$$
$$+ 1347552\, a2^4\, b1^4\, c1^2\, c2^2 - 334152\, a2^4\, b1^4\, c2^4 + 76464\, a2^4\, b1^3\, b2^4\, c1$$
$$+ 592164\, a2^4\, b1^3\, b2^3\, c1\, c2 - 593916\, a2^4\, b1^3\, b2^2\, c1^3 + 641844\, a2^4\, b1^3\, b2^2\, c1\, c2^2$$
$$- 3251088\, a2^4\, b1^3\, b2\, c1^3\, c2 + 780624\, a2^4\, b1^3\, b2\, c1\, c2^3 + 276372\, a2^4\, b1^3\, c1^5$$
$$- 593916\, a2^4\, b1^3\, c1^3\, c2^2 + 668304\, a2^4\, b1^3\, c1\, c2^4 + 4050\, a2^4\, b1^2\, b2^6$$
$$- 14580\, a2^4\, b1^2\, b2^5\, c2 - 410616\, a2^4\, b1^2\, b2^4\, c1^2 + 28755\, a2^4\, b1^2\, b2^4\, c2^2$$
$$- 1203876\, a2^4\, b1^2\, b2^3\, c1^2\, c2 + 32940\, a2^4\, b1^2\, b2^3\, c2^3 + 1347552\, a2^4\, b1^2\, b2^2\, c1^4$$
$$- 1012176\, a2^4\, b1^2\, b2^2\, c1^2\, c2^2 + 112320\, a2^4\, b1^2\, b2^2\, c2^4 + 1970076\, a2^4\, b1^2\, b2\, c1^4\, c2$$
$$- 1203876\, a2^4\, b1^2\, b2\, c1^2\, c2^3 - 22464\, a2^4\, b1^2\, b2\, c2^5 - 154818\, a2^4\, b1^2\, c1^6$$
$$- 158943\, a2^4\, b1^2\, c1^4\, c2^2 - 410616\, a2^4\, b1^2\, c1^2\, c2^4 + 12069\, a2^4\, b1^2\, c2^6$$
$$- 15012\, a2^4\, b1\, b2^6\, c1 + 40122\, a2^4\, b1\, b2^5\, c1\, c2 + 668304\, a2^4\, b1\, b2^4\, c1^3$$
$$- 112320\, a2^4\, b1\, b2^4\, c1\, c2^2 + 780624\, a2^4\, b1\, b2^3\, c1^3\, c2 - 131760\, a2^4\, b1\, b2^3\, c1\, c2^3$$
$$- 933036\, a2^4\, b1\, b2^2\, c1^5 + 641844\, a2^4\, b1\, b2^2\, c1^3\, c2^2 - 112320\, a2^4\, b1\, b2^2\, c1\, c2^4$$
$$- 285078\, a2^4\, b1\, b2\, c1^5\, c2 + 592164\, a2^4\, b1\, b2\, c1^3\, c2^3 + 40122\, a2^4\, b1\, b2\, c1\, c2^5$$
$$+ 54648\, a2^4\, b1\, c1^7 + 146124\, a2^4\, b1\, c1^5\, c2^2 + 76464\, a2^4\, b1\, c1^3\, c2^4$$
$$- 15012\, a2^4\, b1\, c1\, c2^6 - 108\, a2^4\, b2^8 - 1296\, a2^4\, b2^7\, c2 + 12069\, a2^4\, b2^6\, c1^2$$
$$+ 2376\, a2^4\, b2^6\, c2^2 - 22464\, a2^4\, b2^5\, c1^2\, c2 + 3888\, a2^4\, b2^5\, c2^3 - 334152\, a2^4\, b2^4\, c1^4$$
$$+ 112320\, a2^4\, b2^4\, c1^2\, c2^2 - 9720\, a2^4\, b2^4\, c2^4 - 45252\, a2^4\, b2^3\, c1^4\, c2$$
$$+ 32940\, a2^4\, b2^3\, c1^2\, c2^3 + 3888\, a2^4\, b2^3\, c2^5 + 210579\, a2^4\, b2^2\, c1^6$$
$$- 181602\, a2^4\, b2^2\, c1^4\, c2^2 + 28755\, a2^4\, b2^2\, c1^2\, c2^4 + 2376\, a2^4\, b2^2\, c2^6$$
$$- 63828\, a2^4\, b2\, c1^6\, c2 - 77112\, a2^4\, b2\, c1^4\, c2^3 - 14580\, a2^4\, b2\, c1^2\, c2^5 - 1296\, a2^4\, b2\, c2^7$$
$$- 9126\, a2^4\, c1^8 - 13986\, a2^4\, c1^6\, c2^2 - 702\, a2^4\, c1^4\, c2^4 + 4050\, a2^4\, c1^2\, c2^6 - 108\, a2^4\, c2^8$$
$$- 2916\, a2^3\, b1^8\, b2 + 39420\, a2^3\, b1^8\, c2 - 21708\, a2^3\, b1^7\, b2\, c1 - 196884\, a2^3\, b1^7\, c1\, c2$$
$$- 8748\, a2^3\, b1^6\, b2^3 + 82188\, a2^3\, b1^6\, b2^2\, c2 + 153036\, a2^3\, b1^6\, b2\, c1^2$$
$$+ 45468\, a2^3\, b1^6\, b2\, c2^2 + 466236\, a2^3\, b1^6\, c1^2\, c2 - 295928\, a2^3\, b1^6\, c2^3$$
$$- 28620\, a2^3\, b1^5\, b2^3\, c1 - 498636\, a2^3\, b1^5\, b2^2\, c1\, c2 - 414720\, a2^3\, b1^5\, b2\, c1^3$$

$$+ 1068792\, a2^3\, b1^5\, b2\, c1\, c2^2 - 690768\, a2^3\, b1^5\, c1^3\, c2 + 887784\, a2^3\, b1^5\, c1\, c2^3$$
$$- 8748\, a2^3\, b1^4\, b2^5 + 46548\, a2^3\, b1^4\, b2^4\, c2 + 322488\, a2^3\, b1^4\, b2^3\, c1^2$$
$$+ 61128\, a2^3\, b1^4\, b2^3\, c2^2 - 331692\, a2^3\, b1^4\, b2^2\, c1^2\, c2 + 181008\, a2^3\, b1^4\, b2^2\, c2^3$$
$$+ 668304\, a2^3\, b1^4\, b2\, c1^4 - 3608460\, a2^3\, b1^4\, b2\, c1^2\, c2^2 - 45252\, a2^3\, b1^4\, b2\, c2^4$$
$$+ 668304\, a2^3\, b1^4\, c1^4\, c2 - 593916\, a2^3\, b1^4\, c1^2\, c2^3 + 276372\, a2^3\, b1^4\, c2^5$$
$$+ 7884\, a2^3\, b1^3\, b2^5\, c1 - 345276\, a2^3\, b1^3\, b2^4\, c1\, c2 - 291808\, a2^3\, b1^3\, b2^3\, c1^3$$
$$- 493776\, a2^3\, b1^3\, b2^3\, c1\, c2^2 + 3251088\, a2^3\, b1^3\, b2^2\, c1^3\, c2 - 362016\, a2^3\, b1^3\, b2^2\, c1\, c2^3$$
$$- 690768\, a2^3\, b1^3\, b2\, c1^5 + 3251088\, a2^3\, b1^3\, b2\, c1^3\, c2^2 - 599616\, a2^3\, b1^3\, b2\, c1\, c2^4$$
$$- 414720\, a2^3\, b1^3\, c1^5\, c2 - 291808\, a2^3\, b1^3\, c1^3\, c2^3 - 414720\, a2^3\, b1^3\, c1\, c2^5$$
$$- 2916\, a2^3\, b1^2\, b2^7 + 4212\, a2^3\, b1^2\, b2^6\, c2 + 155196\, a2^3\, b1^2\, b2^5\, c1^2$$
$$+ 16524\, a2^3\, b1^2\, b2^5\, c2^2 + 866484\, a2^3\, b1^2\, b2^4\, c1^2\, c2 - 65880\, a2^3\, b1^2\, b2^4\, c2^3$$
$$- 593916\, a2^3\, b1^2\, b2^3\, c1^4 + 674784\, a2^3\, b1^2\, b2^3\, c1^2\, c2^2 + 32940\, a2^3\, b1^2\, b2^3\, c2^4$$
$$- 3608460\, a2^3\, b1^2\, b2^2\, c1^4\, c2 + 674784\, a2^3\, b1^2\, b2^2\, c1^2\, c2^3 - 109620\, a2^3\, b1^2\, b2^2\, c2^5$$
$$+ 466236\, a2^3\, b1^2\, b2\, c1^6 - 331692\, a2^3\, b1^2\, b2\, c1^4\, c2^2 + 866484\, a2^3\, b1^2\, b2\, c1^2\, c2^4$$
$$+ 51516\, a2^3\, b1^2\, b2\, c2^6 + 153036\, a2^3\, b1^2\, c1^6\, c2 + 322488\, a2^3\, b1^2\, c1^4\, c2^3$$
$$+ 155196\, a2^3\, b1^2\, c1^2\, c2^5 - 14256\, a2^3\, b1^2\, c2^7 + 14796\, a2^3\, b1\, b2^7\, c1$$
$$- 43524\, a2^3\, b1\, b2^6\, c1\, c2 - 414720\, a2^3\, b1\, b2^5\, c1^3 + 50328\, a2^3\, b1\, b2^5\, c1\, c2^2$$
$$- 599616\, a2^3\, b1\, b2^4\, c1^3\, c2 + 65880\, a2^3\, b1\, b2^4\, c1\, c2^3 + 887784\, a2^3\, b1\, b2^3\, c1^5$$
$$- 362016\, a2^3\, b1\, b2^3\, c1^3\, c2^2 + 65880\, a2^3\, b1\, b2^3\, c1\, c2^4 + 1068792\, a2^3\, b1\, b2^2\, c1^5\, c2$$
$$- 493776\, a2^3\, b1\, b2^2\, c1^3\, c2^3 + 50328\, a2^3\, b1\, b2^2\, c1\, c2^5 - 196884\, a2^3\, b1\, b2\, c1^7$$
$$- 498636\, a2^3\, b1\, b2\, c1^5\, c2^2 - 345276\, a2^3\, b1\, b2\, c1^3\, c2^4 - 43524\, a2^3\, b1\, b2\, c1\, c2^6$$
$$- 21708\, a2^3\, b1\, c1^7\, c2 - 28620\, a2^3\, b1\, c1^5\, c2^3 + 7884\, a2^3\, b1\, c1^3\, c2^5$$
$$+ 14796\, a2^3\, b1\, c1\, c2^7 + 432\, a2^3\, b2^8\, c2 - 14256\, a2^3\, b2^7\, c1^2 + 864\, a2^3\, b2^7\, c2^2$$
$$+ 51516\, a2^3\, b2^6\, c1^2\, c2 - 5184\, a2^3\, b2^6\, c2^3 + 276372\, a2^3\, b2^5\, c1^4$$
$$- 109620\, a2^3\, b2^5\, c1^2\, c2^2 + 3888\, a2^3\, b2^5\, c2^4 - 45252\, a2^3\, b2^4\, c1^4\, c2$$
$$+ 32940\, a2^3\, b2^4\, c1^2\, c2^3 + 3888\, a2^3\, b2^4\, c2^5 - 295928\, a2^3\, b2^3\, c1^6$$
$$+ 181008\, a2^3\, b2^3\, c1^4\, c2^2 - 65880\, a2^3\, b2^3\, c1^2\, c2^4 - 5184\, a2^3\, b2^3\, c2^6$$
$$+ 45468\, a2^3\, b2^2\, c1^6\, c2 + 61128\, a2^3\, b2^2\, c1^4\, c2^3 + 16524\, a2^3\, b2^2\, c1^2\, c2^5$$
$$+ 864\, a2^3\, b2^2\, c2^7 + 39420\, a2^3\, b2\, c1^8 + 82188\, a2^3\, b2\, c1^6\, c2^2 + 46548\, a2^3\, b2\, c1^4\, c2^4$$
$$+ 4212\, a2^3\, b2\, c1^2\, c2^6 + 432\, a2^3\, b2\, c2^8 - 2916\, a2^3\, c1^8\, c2 - 8748\, a2^3\, c1^6\, c2^3$$
$$- 8748\, a2^3\, c1^4\, c2^5 - 2916\, a2^3\, c1^2\, c2^7 + 729\, a2^2\, b1^{10} - 4374\, a2^2\, b1^9\, c1$$
$$+ 2916\, a2^2\, b1^8\, b2^2 + 2916\, a2^2\, b1^8\, b2\, c2 + 10827\, a2^2\, b1^8\, c1^2 - 60588\, a2^2\, b1^8\, c2^2$$
$$- 20412\, a2^2\, b1^7\, b2^2\, c1 + 105948\, a2^2\, b1^7\, b2\, c1\, c2 - 14256\, a2^2\, b1^7\, c1^3$$
$$+ 242352\, a2^2\, b1^7\, c1\, c2^2 + 4374\, a2^2\, b1^6\, b2^4 + 8748\, a2^2\, b1^6\, b2^3\, c2$$

$$- 2700\, a2^2\, b1^6\, b2^2\, c1^2 - 136404\, a2^2\, b1^6\, b2^2\, c2^2 - 453708\, a2^2\, b1^6\, b2\, c1^2\, c2$$
$$+ 45468\, a2^2\, b1^6\, b2\, c2^3 + 12069\, a2^2\, b1^6\, c1^4 - 472500\, a2^2\, b1^6\, c1^2\, c2^2$$
$$+ 210579\, a2^2\, b1^6\, c2^4 - 34992\, a2^2\, b1^5\, b2^4\, c1 + 225828\, a2^2\, b1^5\, b2^3\, c1\, c2$$
$$+ 155196\, a2^2\, b1^5\, b2^2\, c1^3 + 409212\, a2^2\, b1^5\, b2^2\, c1\, c2^2 + 933768\, a2^2\, b1^5\, b2\, c1^3\, c2$$
$$- 1341600\, a2^2\, b1^5\, b2\, c1\, c2^3 - 9990\, a2^2\, b1^5\, c1^5 + 569268\, a2^2\, b1^5\, c1^3\, c2^2$$
$$- 330438\, a2^2\, b1^5\, c1\, c2^4 + 2916\, a2^2\, b1^4\, b2^6 + 8748\, a2^2\, b1^4\, b2^5\, c2$$
$$- 27054\, a2^2\, b1^4\, b2^4\, c1^2 - 91692\, a2^2\, b1^4\, b2^4\, c2^2 - 859248\, a2^2\, b1^4\, b2^3\, c1^2\, c2$$
$$+ 61128\, a2^2\, b1^4\, b2^3\, c2^3 - 410616\, a2^2\, b1^4\, b2^2\, c1^4 + 1786410\, a2^2\, b1^4\, b2^2\, c1^2\, c2^2$$
$$- 181602\, a2^2\, b1^4\, b2^2\, c2^4 - 1183680\, a2^2\, b1^4\, b2\, c1^4\, c2 + 2417520\, a2^2\, b1^4\, b2\, c1^2\, c2^3$$
$$+ 99792\, a2^2\, b1^4\, b2\, c2^5 + 12069\, a2^2\, b1^4\, c1^6 - 410616\, a2^2\, b1^4\, c1^4\, c2^2$$
$$- 158943\, a2^2\, b1^4\, c1^2\, c2^4 - 154818\, a2^2\, b1^4\, c2^6 - 26244\, a2^2\, b1^3\, b2^6\, c1$$
$$+ 133812\, a2^2\, b1^3\, b2^5\, c1\, c2 + 322488\, a2^2\, b1^3\, b2^4\, c1^3 + 183384\, a2^2\, b1^3\, b2^4\, c1\, c2^2$$
$$- 414528\, a2^2\, b1^3\, b2^3\, c1^3\, c2 + 249264\, a2^2\, b1^3\, b2^3\, c1\, c2^3 + 569268\, a2^2\, b1^3\, b2^2\, c1^5$$
$$- 4254840\, a2^2\, b1^3\, b2^2\, c1^3\, c2^2 + 84564\, a2^2\, b1^3\, b2^2\, c1\, c2^4 + 933768\, a2^2\, b1^3\, b2\, c1^5\, c2$$
$$- 414528\, a2^2\, b1^3\, b2\, c1^3\, c2^3 + 325944\, a2^2\, b1^3\, b2\, c1\, c2^5 - 14256\, a2^2\, b1^3\, c1^7$$
$$+ 155196\, a2^2\, b1^3\, c1^5\, c2^2 + 322488\, a2^2\, b1^3\, c1^3\, c2^4 + 153036\, a2^2\, b1^3\, c1\, c2^6$$
$$+ 729\, a2^2\, b1^2\, b2^8 + 2916\, a2^2\, b1^2\, b2^7\, c2 - 2700\, a2^2\, b1^2\, b2^6\, c1^2$$
$$- 16524\, a2^2\, b1^2\, b2^6\, c2^2 - 449388\, a2^2\, b1^2\, b2^5\, c1^2\, c2 + 16524\, a2^2\, b1^2\, b2^5\, c2^3$$
$$- 158943\, a2^2\, b1^2\, b2^4\, c1^4 - 176256\, a2^2\, b1^2\, b2^4\, c1^2\, c2^2 + 28755\, a2^2\, b1^2\, b2^4\, c2^4$$
$$+ 2417520\, a2^2\, b1^2\, b2^3\, c1^4\, c2 - 439776\, a2^2\, b1^2\, b2^3\, c1^2\, c2^3 - 42768\, a2^2\, b1^2\, b2^3\, c2^5$$
$$- 472500\, a2^2\, b1^2\, b2^2\, c1^6 + 1786410\, a2^2\, b1^2\, b2^2\, c1^4\, c2^2 - 176256\, a2^2\, b1^2\, b2^2\, c1^2\, c2^4$$
$$+ 76194\, a2^2\, b1^2\, b2^2\, c2^6 - 453708\, a2^2\, b1^2\, b2\, c1^6\, c2 - 859248\, a2^2\, b1^2\, b2\, c1^4\, c2^3$$
$$- 449388\, a2^2\, b1^2\, b2\, c1^2\, c2^5 - 43848\, a2^2\, b1^2\, b2\, c2^7 + 10827\, a2^2\, b1^2\, c1^8$$
$$- 2700\, a2^2\, b1^2\, c1^6\, c2^2 - 27054\, a2^2\, b1^2\, c1^4\, c2^4 - 2700\, a2^2\, b1^2\, c1^2\, c2^6$$
$$+ 10827\, a2^2\, b1^2\, c2^8 - 7290\, a2^2\, b1\, b2^8\, c1 + 13932\, a2^2\, b1\, b2^7\, c1\, c2$$
$$+ 153036\, a2^2\, b1\, b2^6\, c1^3 + 16524\, a2^2\, b1\, b2^6\, c1\, c2^2 + 325944\, a2^2\, b1\, b2^5\, c1^3\, c2$$
$$- 83376\, a2^2\, b1\, b2^5\, c1\, c2^3 - 330438\, a2^2\, b1\, b2^4\, c1^5 + 84564\, a2^2\, b1\, b2^4\, c1^3\, c2^2$$
$$+ 54810\, a2^2\, b1\, b2^4\, c1\, c2^4 - 1341600\, a2^2\, b1\, b2^3\, c1^5\, c2 + 249264\, a2^2\, b1\, b2^3\, c1^3\, c2^3$$
$$- 83376\, a2^2\, b1\, b2^3\, c1\, c2^5 + 242352\, a2^2\, b1\, b2^2\, c1^7 + 409212\, a2^2\, b1\, b2^2\, c1^5\, c2^2$$
$$+ 183384\, a2^2\, b1\, b2^2\, c1^3\, c2^4 + 16524\, a2^2\, b1\, b2^2\, c1\, c2^6 + 105948\, a2^2\, b1\, b2\, c1^7\, c2$$
$$+ 225828\, a2^2\, b1\, b2\, c1^5\, c2^3 + 133812\, a2^2\, b1\, b2\, c1^3\, c2^5 + 13932\, a2^2\, b1\, b2\, c1\, c2^7$$
$$- 4374\, a2^2\, b1\, c1^9 - 20412\, a2^2\, b1\, c1^7\, c2^2 - 34992\, a2^2\, b1\, c1^5\, c2^4$$
$$- 26244\, a2^2\, b1\, c1^3\, c2^6 - 7290\, a2^2\, b1\, c1\, c2^8 + 10827\, a2^2\, b2^8\, c1^2 - 648\, a2^2\, b2^8\, c2^2$$
$$- 43848\, a2^2\, b2^7\, c1^2\, c2 + 864\, a2^2\, b2^7\, c2^3 - 154818\, a2^2\, b2^6\, c1^4 + 76194\, a2^2\, b2^6\, c1^2\, c2^2$$

$$+ 2376\, a2^2\, b2^6\, c2^4 + 99792\, a2^2\, b2^5\, c1^4\, c2 - 42768\, a2^2\, b2^5\, c1^2\, c2^3 - 5184\, a2^2\, b2^5\, c2^5$$
$$+ 210579\, a2^2\, b2^4\, c1^6 - 181602\, a2^2\, b2^4\, c1^4\, c2^2 + 28755\, a2^2\, b2^4\, c1^2\, c2^4$$
$$+ 2376\, a2^2\, b2^4\, c2^6 + 45468\, a2^2\, b2^3\, c1^6\, c2 + 61128\, a2^2\, b2^3\, c1^4\, c2^3$$
$$+ 16524\, a2^2\, b2^3\, c1^2\, c2^5 + 864\, a2^2\, b2^3\, c2^7 - 60588\, a2^2\, b2^2\, c1^8$$
$$- 136404\, a2^2\, b2^2\, c1^6\, c2^2 - 91692\, a2^2\, b2^2\, c1^4\, c2^4 - 16524\, a2^2\, b2^2\, c1^2\, c2^6$$
$$- 648\, a2^2\, b2^2\, c2^8 + 2916\, a2^2\, b2\, c1^8\, c2 + 8748\, a2^2\, b2\, c1^6\, c2^3 + 8748\, a2^2\, b2\, c1^4\, c2^5$$
$$+ 2916\, a2^2\, b2\, c1^2\, c2^7 + 729\, a2^2\, c1^{10} + 2916\, a2^2\, c1^8\, c2^2 + 4374\, a2^2\, c1^6\, c2^4$$
$$+ 2916\, a2^2\, c1^4\, c2^6 + 729\, a2^2\, c1^2\, c2^8 - 1458\, a2\, b1^{10}\, c2 + 1458\, a2\, b1^9\, b2\, c1$$
$$+ 7290\, a2\, b1^9\, c1\, c2 - 5832\, a2\, b1^8\, b2^2\, c2 - 7290\, a2\, b1^8\, b2\, c1^2 + 2916\, a2\, b1^8\, b2\, c2^2$$
$$- 14364\, a2\, b1^8\, c1^2\, c2 + 39420\, a2\, b1^8\, c2^3 + 5832\, a2\, b1^7\, b2^3\, c1$$
$$+ 23328\, a2\, b1^7\, b2^2\, c1\, c2 + 14796\, a2\, b1^7\, b2\, c1^3 - 129276\, a2\, b1^7\, b2\, c1\, c2^2$$
$$+ 13716\, a2\, b1^7\, c1^3\, c2 - 118476\, a2\, b1^7\, c1\, c2^3 - 8748\, a2\, b1^6\, b2^4\, c2$$
$$- 26244\, a2\, b1^6\, b2^3\, c1^2 + 8748\, a2\, b1^6\, b2^3\, c2^2 + 84132\, a2\, b1^6\, b2^2\, c1^2\, c2$$
$$+ 82188\, a2\, b1^6\, b2^2\, c2^3 - 15012\, a2\, b1^6\, b2\, c1^4 + 369576\, a2\, b1^6\, b2\, c1^2\, c2^2$$
$$- 63828\, a2\, b1^6\, b2\, c2^4 - 9126\, a2\, b1^6\, c1^4\, c2 + 191808\, a2\, b1^6\, c1^2\, c2^3$$
$$- 71466\, a2\, b1^6\, c2^5 + 8748\, a2\, b1^5\, b2^5\, c1 + 26244\, a2\, b1^5\, b2^4\, c1\, c2$$
$$+ 7884\, a2\, b1^5\, b2^3\, c1^3 - 278316\, a2\, b1^5\, b2^3\, c1\, c2^2 - 334044\, a2\, b1^5\, b2^2\, c1^3\, c2$$
$$+ 5508\, a2\, b1^5\, b2^2\, c1\, c2^3 + 9990\, a2\, b1^5\, b2\, c1^5 - 599724\, a2\, b1^5\, b2\, c1^3\, c2^2$$
$$+ 668046\, a2\, b1^5\, b2\, c1\, c2^4 + 9990\, a2\, b1^5\, c1^5\, c2 - 179604\, a2\, b1^5\, c1^3\, c2^3$$
$$- 1434\, a2\, b1^5\, c1\, c2^5 - 5832\, a2\, b1^4\, b2^6\, c2 - 34992\, a2\, b1^4\, b2^5\, c1^2$$
$$+ 8748\, a2\, b1^4\, b2^5\, c2^2 + 229068\, a2\, b1^4\, b2^4\, c1^2\, c2 + 46548\, a2\, b1^4\, b2^4\, c2^3$$
$$+ 76464\, a2\, b1^4\, b2^3\, c1^4 + 401112\, a2\, b1^4\, b2^3\, c1^2\, c2^2 - 77112\, a2\, b1^4\, b2^3\, c2^4$$
$$+ 591840\, a2\, b1^4\, b2^2\, c1^4\, c2 - 1592052\, a2\, b1^4\, b2^2\, c1^2\, c2^3 + 118908\, a2\, b1^4\, b2^2\, c2^5$$
$$- 9126\, a2\, b1^4\, b2\, c1^6 + 591840\, a2\, b1^4\, b2\, c1^4\, c2^2 - 412734\, a2\, b1^4\, b2\, c1^2\, c2^4$$
$$- 72900\, a2\, b1^4\, b2\, c2^6 - 15012\, a2\, b1^4\, c1^6\, c2 + 76464\, a2\, b1^4\, c1^4\, c2^3$$
$$+ 146124\, a2\, b1^4\, c1^2\, c2^5 + 54648\, a2\, b1^4\, c2^7 + 5832\, a2\, b1^3\, b2^7\, c1$$
$$+ 11664\, a2\, b1^3\, b2^6\, c1\, c2 - 28620\, a2\, b1^3\, b2^5\, c1^3 - 168804\, a2\, b1^3\, b2^5\, c1\, c2^2$$
$$- 501876\, a2\, b1^3\, b2^4\, c1^3\, c2 + 159084\, a2\, b1^3\, b2^4\, c1\, c2^3 - 179604\, a2\, b1^3\, b2^3\, c1^5$$
$$+ 1418280\, a2\, b1^3\, b2^3\, c1^3\, c2^2 - 283716\, a2\, b1^3\, b2^3\, c1\, c2^4 - 599724\, a2\, b1^3\, b2^2\, c1^5\, c2$$
$$+ 1418280\, a2\, b1^3\, b2^2\, c1^3\, c2^3 + 136404\, a2\, b1^3\, b2^2\, c1\, c2^5 + 13716\, a2\, b1^3\, b2\, c1^7$$
$$- 334044\, a2\, b1^3\, b2\, c1^5\, c2^2 - 501876\, a2\, b1^3\, b2\, c1^3\, c2^4 - 154116\, a2\, b1^3\, b2\, c1\, c2^6$$
$$+ 14796\, a2\, b1^3\, c1^7\, c2 + 7884\, a2\, b1^3\, c1^5\, c2^3 - 28620\, a2\, b1^3\, c1^3\, c2^5$$
$$- 21708\, a2\, b1^3\, c1\, c2^7 - 1458\, a2\, b1^2\, b2^8\, c2 - 20412\, a2\, b1^2\, b2^7\, c1^2$$
$$+ 2916\, a2\, b1^2\, b2^7\, c2^2 + 148284\, a2\, b1^2\, b2^6\, c1^2\, c2 + 4212\, a2\, b1^2\, b2^6\, c2^3$$

$$+ 146124\, a2\, b1^2\, b2^5\, c1^4 + 4536\, a2\, b1^2\, b2^5\, c1^2\, c2^2 - 14580\, a2\, b1^2\, b2^5\, c2^4$$
$$- 412734\, a2\, b1^2\, b2^4\, c1^4\, c2 + 109944\, a2\, b1^2\, b2^4\, c1^2\, c2^3 + 3078\, a2\, b1^2\, b2^4\, c2^5$$
$$+ 191808\, a2\, b1^2\, b2^3\, c1^6 - 1592052\, a2\, b1^2\, b2^3\, c1^4\, c2^2 + 109944\, a2\, b1^2\, b2^3\, c1^2\, c2^4$$
$$+ 12204\, a2\, b1^2\, b2^3\, c2^6 + 369576\, a2\, b1^2\, b2^2\, c1^6\, c2 + 401112\, a2\, b1^2\, b2^2\, c1^4\, c2^3$$
$$+ 4536\, a2\, b1^2\, b2^2\, c1^2\, c2^5 - 27000\, a2\, b1^2\, b2^2\, c2^7 - 14364\, a2\, b1^2\, b2\, c1^8$$
$$+ 84132\, a2\, b1^2\, b2\, c1^6\, c2^2 + 229068\, a2\, b1^2\, b2\, c1^4\, c2^4 + 148284\, a2\, b1^2\, b2\, c1^2\, c2^6$$
$$+ 17712\, a2\, b1^2\, b2\, c2^8 - 7290\, a2\, b1^2\, c1^8\, c2 - 26244\, a2\, b1^2\, c1^6\, c2^3$$
$$- 34992\, a2\, b1^2\, c1^4\, c2^5 - 20412\, a2\, b1^2\, c1^2\, c2^7 - 4374\, a2\, b1^2\, c2^9 + 1458\, a2\, b1\, b2^9\, c1$$
$$+ 1458\, a2\, b1\, b2^8\, c1\, c2 - 21708\, a2\, b1\, b2^7\, c1^3 - 19764\, a2\, b1\, b2^7\, c1\, c2^2$$
$$- 154116\, a2\, b1\, b2^6\, c1^3\, c2 + 35100\, a2\, b1\, b2^6\, c1\, c2^3 - 1434\, a2\, b1\, b2^5\, c1^5$$
$$+ 136404\, a2\, b1\, b2^5\, c1^3\, c2^2 - 10962\, a2\, b1\, b2^5\, c1\, c2^4 + 668046\, a2\, b1\, b2^4\, c1^5\, c2$$
$$- 283716\, a2\, b1\, b2^4\, c1^3\, c2^3 - 10962\, a2\, b1\, b2^4\, c1\, c2^5 - 118476\, a2\, b1\, b2^3\, c1^7$$
$$+ 5508\, a2\, b1\, b2^3\, c1^5\, c2^2 + 159084\, a2\, b1\, b2^3\, c1^3\, c2^4 + 35100\, a2\, b1\, b2^3\, c1\, c2^6$$
$$- 129276\, a2\, b1\, b2^2\, c1^7\, c2 - 278316\, a2\, b1\, b2^2\, c1^5\, c2^3 - 168804\, a2\, b1\, b2^2\, c1^3\, c2^5$$
$$- 19764\, a2\, b1\, b2^2\, c1\, c2^7 + 7290\, a2\, b1\, b2\, c1^9 + 23328\, a2\, b1\, b2\, c1^7\, c2^2$$
$$+ 26244\, a2\, b1\, b2\, c1^5\, c2^4 + 11664\, a2\, b1\, b2\, c1^3\, c2^6 + 1458\, a2\, b1\, b2\, c1\, c2^8$$
$$+ 1458\, a2\, b1\, c1^9\, c2 + 5832\, a2\, b1\, c1^7\, c2^3 + 8748\, a2\, b1\, c1^5\, c2^5 + 5832\, a2\, b1\, c1^3\, c2^7$$
$$+ 1458\, a2\, b1\, c1\, c2^9 - 4374\, a2\, b2^9\, c1^2 + 17712\, a2\, b2^8\, c1^2\, c2 + 432\, a2\, b2^8\, c2^3$$
$$+ 54648\, a2\, b2^7\, c1^4 - 27000\, a2\, b2^7\, c1^2\, c2^2 - 1296\, a2\, b2^7\, c2^4 - 72900\, a2\, b2^6\, c1^4\, c2$$
$$+ 12204\, a2\, b2^6\, c1^2\, c2^3 + 864\, a2\, b2^6\, c2^5 - 71466\, a2\, b2^5\, c1^6 + 118908\, a2\, b2^5\, c1^4\, c2^2$$
$$+ 3078\, a2\, b2^5\, c1^2\, c2^4 + 864\, a2\, b2^5\, c2^6 - 63828\, a2\, b2^4\, c1^6\, c2 - 77112\, a2\, b2^4\, c1^4\, c2^3$$
$$- 14580\, a2\, b2^4\, c1^2\, c2^5 - 1296\, a2\, b2^4\, c2^7 + 39420\, a2\, b2^3\, c1^8 + 82188\, a2\, b2^3\, c1^6\, c2^2$$
$$+ 46548\, a2\, b2^3\, c1^4\, c2^4 + 4212\, a2\, b2^3\, c1^2\, c2^6 + 432\, a2\, b2^3\, c2^8 + 2916\, a2\, b2^2\, c1^8\, c2$$
$$+ 8748\, a2\, b2^2\, c1^6\, c2^3 + 8748\, a2\, b2^2\, c1^4\, c2^5 + 2916\, a2\, b2^2\, c1^2\, c2^7 - 1458\, a2\, b2\, c1^{10}$$
$$- 5832\, a2\, b2\, c1^8\, c2^2 - 8748\, a2\, b2\, c1^6\, c2^4 - 5832\, a2\, b2\, c1^4\, c2^6 - 1458\, a2\, b2\, c1^2\, c2^8$$
$$+ 729\, b1^{10}\, c2^2 - 1458\, c1\, b2\, b1^9\, c2 - 2916\, c1\, b1^9\, c2^2 + 729\, b1^8\, b2^2\, c1^2$$
$$+ 2916\, b1^8\, b2^2\, c2^2 + 5832\, c1^2\, b2\, b1^8\, c2 - 2916\, b2\, b1^8\, c2^3 - 108\, c1^4\, b1^8$$
$$+ 4266\, c1^2\, b1^8\, c2^2 - 9126\, b1^8\, c2^4 - 5832\, c1\, b2^3\, b1^7\, c2 - 2916\, b1^7\, b2^2\, c1^3$$
$$- 2916\, b1^7\, b2^2\, c1\, c2^2 - 8964\, c1^3\, b2\, b1^7\, c2 + 45036\, c1\, b2\, b1^7\, c2^3 + 432\, c1^5\, b1^7$$
$$- 2376\, c1^3\, b1^7\, c2^2 + 18360\, c1\, b1^7\, c2^4 + 2916\, b1^6\, b2^4\, c1^2 + 4374\, b1^6\, b2^4\, c2^2$$
$$+ 14580\, c1^2\, b2^3\, b1^6\, c2 - 8748\, b2^3\, b1^6\, c2^3 + 4050\, b1^6\, b2^2\, c1^4 - 63936\, c1^2\, b2^2\, b1^6\, c2^2$$
$$- 13986\, b1^6\, b2^2\, c2^4 + 6912\, c1^4\, b2\, b1^6\, c2 - 80568\, c1^2\, b2\, b1^6\, c2^3 + 18360\, b2\, b1^6\, c2^5$$
$$- 648\, c1^6\, b1^6 + 1107\, c1^4\, b1^6\, c2^2 - 27810\, c1^2\, b1^6\, c2^4 + 8851\, b1^6\, c2^6$$
$$- 8748\, c1\, b2^5\, b1^5\, c2 - 8748\, b1^5\, b2^4\, c1^3 + 8748\, b1^5\, b2^4\, c1\, c2^2 + 27108\, c1^3\, b2^3\, b1^5\, c2$$

$$+ 81108\, c1\, b2^3\, b1^5\, c2^3 - 1944\, b1^5\, b2^2\, c1^5 + 126360\, b1^5\, b2^2\, c1^3\, c2^2$$
$$- 62208\, c1\, b2^2\, b1^5\, c2^4 - 6102\, c1^5\, b2\, b1^5\, c2 + 115668\, c1^3\, b2\, b1^5\, c2^3$$
$$- 108726\, c1\, b2\, b1^5\, c2^5 + 432\, c1^7\, b1^5 - 1944\, c1^5\, b1^5\, c2^2 + 15984\, c1^3\, b1^5\, c2^4$$
$$+ 18360\, c1\, b1^5\, c2^6 + 4374\, b1^4\, b2^6\, c1^2 + 2916\, b1^4\, b2^6\, c2^2 + 8748\, c1^2\, b2^5\, b1^4\, c2$$
$$- 8748\, b2^5\, b1^4\, c2^3 - 702\, b1^4\, b2^4\, c1^4 - 136404\, b1^4\, b2^4\, c1^2\, c2^2 - 702\, b1^4\, b2^4\, c2^4$$
$$- 73656\, c1^4\, b2^3\, b1^4\, c2 + 48168\, c1^2\, b2^3\, b1^4\, c2^3 + 15984\, b2^3\, b1^4\, c2^5 + 1107\, b1^4\, b2^2\, c1^6$$
$$- 185436\, b1^4\, b2^2\, c1^4\, c2^2 + 361887\, b1^4\, b2^2\, c1^2\, c2^4 - 27810\, b1^4\, b2^2\, c2^6$$
$$+ 6912\, c1^6\, b2\, b1^4\, c2 - 73656\, c1^4\, b2\, b1^4\, c2^3 - 62208\, c1^2\, b2\, b1^4\, c2^5 + 18360\, b2\, b1^4\, c2^7$$
$$- 108\, c1^8\, b1^4 + 4050\, c1^6\, b1^4\, c2^2 - 702\, c1^4\, b1^4\, c2^4 - 13986\, c1^2\, b1^4\, c2^6 - 9126\, b1^4\, c2^8$$
$$- 5832\, c1\, b2^7\, b1^3\, c2 - 8748\, b1^3\, b2^6\, c1^3 + 14580\, b1^3\, b2^6\, c1\, c2^2 + 81108\, c1^3\, b2^5\, b1^3\, c2$$
$$+ 27108\, c1\, b2^5\, b1^3\, c2^3 + 15984\, b1^3\, b2^4\, c1^5 + 48168\, b1^3\, b2^4\, c1^3\, c2^2$$
$$- 73656\, b1^3\, b2^4\, c1\, c2^4 + 115668\, c1^5\, b2^3\, b1^3\, c2 - 536984\, c1^3\, b2^3\, b1^3\, c2^3$$
$$+ 115668\, c1\, b2^3\, b1^3\, c2^5 - 2376\, b1^3\, b2^2\, c1^7 + 126360\, b1^3\, b2^2\, c1^5\, c2^2$$
$$+ 48168\, b1^3\, b2^2\, c1^3\, c2^4 - 80568\, b1^3\, b2^2\, c1\, c2^6 - 8964\, c1^7\, b2\, b1^3\, c2$$
$$+ 27108\, c1^5\, b2\, b1^3\, c2^3 + 81108\, c1^3\, b2\, b1^3\, c2^5 + 45036\, c1\, b2\, b1^3\, c2^7$$
$$- 2916\, c1^7\, b1^3\, c2^2 - 8748\, c1^5\, b1^3\, c2^4 - 8748\, c1^3\, b1^3\, c2^6 - 2916\, c1\, b1^3\, c2^8$$
$$+ 2916\, b1^2\, b2^8\, c1^2 + 729\, b1^2\, b2^8\, c2^2 - 2916\, c1^2\, b2^7\, b1^2\, c2 - 2916\, b2^7\, b1^2\, c2^3$$
$$- 13986\, b1^2\, b2^6\, c1^4 - 63936\, b1^2\, b2^6\, c1^2\, c2^2 + 4050\, b1^2\, b2^6\, c2^4 - 62208\, c1^4\, b2^5\, b1^2\, c2$$
$$+ 126360\, c1^2\, b2^5\, b1^2\, c2^3 - 1944\, b2^5\, b1^2\, c2^5 - 27810\, b1^2\, b2^4\, c1^6$$
$$+ 361887\, b1^2\, b2^4\, c1^4\, c2^2 - 185436\, b1^2\, b2^4\, c1^2\, c2^4 + 1107\, b1^2\, b2^4\, c2^6$$
$$- 80568\, c1^6\, b2^3\, b1^2\, c2 + 48168\, c1^4\, b2^3\, b1^2\, c2^3 + 126360\, c1^2\, b2^3\, b1^2\, c2^5$$
$$- 2376\, b2^3\, b1^2\, c2^7 + 4266\, c1^8\, b2^2\, b1^2 - 63936\, b1^2\, b2^2\, c1^6\, c2^2$$
$$- 136404\, c1^4\, b2^2\, b1^2\, c2^4 - 63936\, b1^2\, b2^2\, c1^2\, c2^6 + 4266\, b2^2\, b1^2\, c2^8$$
$$+ 5832\, c1^8\, b2\, b1^2\, c2 + 14580\, c1^6\, b2\, b1^2\, c2^3 + 8748\, c1^4\, b2\, b1^2\, c2^5$$
$$- 2916\, c1^2\, b2\, b1^2\, c2^7 - 2916\, b2\, b1^2\, c2^9 + 729\, c1^8\, b1^2\, c2^2 + 2916\, c1^6\, b1^2\, c2^4$$
$$+ 4374\, c1^4\, b1^2\, c2^6 + 2916\, b1^2\, c1^2\, c2^8 + 729\, b1^2\, c2^{10} - 1458\, c1\, b2^9\, b1\, c2$$
$$- 2916\, b1\, b2^8\, c1^3 + 5832\, b1\, b2^8\, c1\, c2^2 + 45036\, c1^3\, b2^7\, b1\, c2 - 8964\, c1\, b2^7\, b1\, c2^3$$
$$+ 18360\, b1\, b2^6\, c1^5 - 80568\, b1\, b2^6\, c1^3\, c2^2 + 6912\, b1\, b2^6\, c1\, c2^4$$
$$- 108726\, c1^5\, b2^5\, b1\, c2 + 115668\, c1^3\, b2^5\, b1\, c2^3 - 6102\, c1\, b2^5\, b1\, c2^5$$
$$+ 18360\, b1\, b2^4\, c1^7 - 62208\, b1\, b2^4\, c1^5\, c2^2 - 73656\, b1\, b2^4\, c1^3\, c2^4 + 6912\, b1\, b2^4\, c1\, c2^6$$
$$+ 45036\, c1^7\, b2^3\, b1\, c2 + 81108\, c1^5\, b2^3\, b1\, c2^3 + 27108\, c1^3\, b2^3\, b1\, c2^5$$
$$- 8964\, c1\, b2^3\, b1\, c2^7 - 2916\, b1\, b2^2\, c1^9 - 2916\, b1\, b2^2\, c1^7\, c2^2 + 8748\, b1\, b2^2\, c1^5\, c2^4$$
$$+ 14580\, b1\, b2^2\, c1^3\, c2^6 + 5832\, c1\, b2^2\, b1\, c2^8 - 1458\, c1^9\, b2\, b1\, c2 - 5832\, c1^7\, b2\, b1\, c2^3$$
$$- 8748\, c1^5\, b2\, b1\, c2^5 - 5832\, c1^3\, b2\, b1\, c2^7 - 1458\, b2\, c1\, b1\, c2^9 + 729\, b2^{10}\, c1^2$$

$$- 2916\, c1^2\, b2^9\, c2 - 9126\, b2^8\, c1^4 + 4266\, b2^8\, c1^2\, c2^2 - 108\, b2^8\, c2^4 + 18360\, c1^4\, b2^7\, c2$$
$$- 2376\, c1^2\, b2^7\, c2^3 + 432\, b2^7\, c2^5 + 8851\, b2^6\, c1^6 - 27810\, b2^6\, c1^4\, c2^2$$
$$+ 1107\, b2^6\, c1^2\, c2^4 - 648\, b2^6\, c2^6 + 18360\, c1^6\, b2^5\, c2 + 15984\, c1^4\, b2^5\, c2^3$$
$$- 1944\, c1^2\, b2^5\, c2^5 + 432\, b2^5\, c2^7 - 9126\, b2^4\, c1^8 - 13986\, b2^4\, c1^6\, c2^2 - 702\, b2^4\, c1^4\, c2^4$$
$$+ 4050\, b2^4\, c1^2\, c2^6 - 108\, b2^4\, c2^8 - 2916\, c1^8\, b2^3\, c2 - 8748\, c1^6\, b2^3\, c2^3$$
$$- 8748\, c1^4\, b2^3\, c2^5 - 2916\, c1^2\, b2^3\, c2^7 + 729\, b2^2\, c1^{10} + 2916\, b2^2\, c1^8\, c2^2$$
$$+ 4374\, b2^2\, c1^6\, c2^4 + 2916\, b2^2\, c1^4\, c2^6 + 729\, b2^2\, c1^2\, c2^8)\, (a1\, b2 - a1\, c2 - a2\, b1$$
$$+ a2\, c1 + b1\, c2 - b2\, c1)^2$$

The first one is a polynomial of degree 12, of difficult geometric interpretation, and the second one is the square of the equation describing the collinearity of A, B, C. For this particular subset of the locus, let us study if it provides a sufficient condition for the equality

```
f := (18*c*h)^2-3*(a+b+c)^4;
```

$$f := 324\, c^2\, h^2 - 3\, (a + b + c)^4 \tag{1.17}$$

to hold true.

So we add now the collinearity equation to the ideal CS

```
Add(CS, ⟨a1 b2 - a1 c2 - a2 b1 + a2 c1 + b1 c2 - b2 c1⟩);
```

$$\langle (d1 - a1)\, (b2 - a2) - (d2 - a2)\, (b1 - a1), (d1 - c1)\, (b1 - a1) + (d2 - c2)\, (b2 - a2), a^2 - (b1 - c1)^2 - (b2 - c2)^2, b^2 - (c1 - a1)^2 - (c2 - a2)^2, c^2 - (b1 - a1)^2 - (b2 - a2)^2, h^2 - (d1 - c1)^2 - (d2 - c2)^2, a1\, b2 - a1\, c2 - a2\, b1 + a2\, c1 + b1\, c2 - b2\, c1\rangle \tag{1.18}$$

and we verify that this ideal is of dimension 6

```
EliminationIdeal(⟨a1*b2 - a1*c2 - a2*b1 + a2*c1 + b1*c2 - b2*c1, a^2-((c1-b1)^2
    + (c2-b2)^2), b^2-((c1-a1)^2 + (c2-a2)^2), c^2-((b1-a1)^2 + (b2-a2)^2),
    h^2-((d1-c1)^2 + (d2-c2)^2), (d1-a1)*(b2-a2)-(d2-a2)*(b1-a1), (d1-c1)
    *(b1-a1) + (d2-c2)*(b2-a2)⟩, {a1, b2, c1, c2, d2, h});EliminationIdeal(⟨a1*b2 - a1
    *c2 - a2*b1 + a2*c1 + b1*c2 - b2*c1, a^2-((c1-b1)^2 + (c2-b2)^2), b^2
    -((c1-a1)^2 + (c2-a2)^2), c^2-((b1-a1)^2 + (b2-a2)^2), h^2-((d1-c1)^2
    + (d2-c2)^2), (d1-a1)*(b2-a2)-(d2-a2)*(b1-a1), (d1-c1)*(b1-a1) + (d2
    -c2)*(b2-a2)⟩, {a1, b2, c1, d1, d2, h});
```

$$\langle 0\rangle$$

$$\langle 0\rangle \tag{1.19}$$

with {a1,b2,c1,d1,d2,h} as free variables (among other possibilities). Now we try to verify if the thesis is generally true, that is, if the negation of the thesis only holds on a small subset of the free variables space. Let use in what follows the variables {a1,b2,c1,d1,d2,h}

$$EliminationIdeal(\langle a1*b2 - a1*c2 - a2*b1 + a2*c1 + b1*c2 - b2*c1, a\text{^}2-((c1-b1)\text{^}2 + (c2-b2)\text{^}2), b\text{^}2-((c1-a1)\text{^}2 + (c2-a2)\text{^}2), c\text{^}2-((b1-a1)\text{^}2 + (b2-a2)\text{^}2), h\text{^}2-((d1-c1)\text{^}2 + (d2-c2)\text{^}2), (d1-a1)*(b2-a2)-(d2-a2)*(b1-a1), (d1-c1)*(b1-a1) + (d2-c2)*(b2-a2), (3*(a+b+c)\text{^}4-18\text{^}2*c\text{^}2*h\text{^}2)*t-1\rangle, \{a1, b2, c1, d1, d2, h\});$$

$$\langle 0\rangle \tag{1.20}$$

But it turns out that this is not so, as the elimination is the whole space of free variables. So it is not generally true. Let us see if it is generally false, that is, if the thesis only holds on a small subset of the free variables spaces

$$EliminationIdeal(\langle a1*b2 - a1*c2 - a2*b1 + a2*c1 + b1*c2 - b2*c1, a\text{^}2-((c1-b1)\text{^}2 + (c2-b2)\text{^}2), b\text{^}2-((c1-a1)\text{^}2 + (c2-a2)\text{^}2), c\text{^}2-((b1-a1)\text{^}2 + (b2-a2)\text{^}2), h\text{^}2-((d1-c1)\text{^}2 + (d2-c2)\text{^}2), (d1-a1)*(b2-a2)-(d2-a2)*(b1-a1), (d1-c1)*(b1-a1) + (d2-c2)*(b2-a2), 3*(a+b+c)\text{^}4-18\text{^}2*c\text{^}2*h\text{^}2\rangle, \{a1, b2, c1, d1, d2, h\});$$

$$\langle 0\rangle \tag{1.21}$$

But is also not so. So this is a case of "true on parts" (as it is labeled in GeoGebra Discovery), that is, a case in which the statement is true on some non-degenerate components of the hypotheses variety and also it is false on some other such components (cases that are already well-known and labeled as "true on parts, false on parts", see Kovács, Z., Recio, T., Vélez, M.P. (2019). "Detecting truth, just on parts". Revista Matemática Complutense, Volume 32, Issue 2, May 2019. pp. 451-474. DOI: 10.1007/s13163-018-0286-1. So, to understand better the situation, let us compute the prime decomposition of this ideal, yielding 29 non-redundant prime components

$$PP := PrimeDecomposition(\langle a1*b2 - a1*c2 - a2*b1 + a2*c1 + b1*c2 - b2*c1, a\text{^}2-((c1-b1)\text{^}2 + (c2-b2)\text{^}2), b\text{^}2-((c1-a1)\text{^}2 + (c2-a2)\text{^}2), c\text{^}2-((b1-a1)\text{^}2 + (b2-a2)\text{^}2), h\text{^}2-((d1-c1)\text{^}2 + (d2-c2)\text{^}2), (d1-a1)*(b2-a2)-(d2-a2)*(b1-a1), (d1-c1)*(b1-a1) + (d2-c2)*(b2-a2)\rangle, removeredundant = true);$$

$$PP := \langle c, a+b, b1-a1, b2-a2, a^2-a1^2+2\,a1\,c1-a2^2+2\,c2\,a2-c1^2-c2^2, -c1^2+2\,c1\,d1-c2^2+2\,c2\,d2-d1^2-d2^2+h^2\rangle, \langle c, b-a, b1-a1, b2-a2, a^2-a1^2+2\,a1\,c1-a2^2+2\,c2\,a2-c1^2-c2^2, -c1^2+2\,c1\,d1-c2^2+2\,c2\,d2-d1^2-d2^2+h^2\rangle, \langle a, b, c, b1-a1, b2-a2, a1^2-2\,a1\,c1+a2^2-2\,c2\,a2+c1^2+c2^2, -c1^2+2\,c1\,d1-c2^2+2\,c2\,d2-d1^2-d2^2+h^2\rangle, \langle c, a+b, b1-a1, b2-a2, d1-c1, -c2+d2+h, a^2-a1^2+2\,a1\,c1-a2^2+2\,c2\,a2-c1^2-c2^2\rangle, \langle c, a+b, b1-a1, b2-a2, d1-c1, c2-d2+h, a^2-a1^2+2\,a1\,c1-a2^2+2\,c2\,a2-c1^2-c2^2\rangle, \langle c, b-a, b1-a1, b2-a2, d1-c1, -c2+d2+h, a^2-a1^2+2\,a1\,c1-a2^2+2\,c2\,a2-c1^2-c2^2\rangle, \langle c, b-a, b1-a1, b2-a2, d1-c1, c2-d2+h, a^2-a1^2+2\,a1\,c1-a2^2+2\,c2\,a2-c1^2-c2^2\rangle, \langle c, a1-c1, b1-c1, b2-a2, d1-c1, a-a2+c2, \tag{1.22}$$

$-a2 + b + c2, -c2 + d2 + h\rangle, \langle c, a1 - c1, b1 - c1, b2 - a2, d1 - c1, a - a2 + c2,$
$-a2 + b + c2, c2 - d2 + h\rangle, \langle c, a1 - c1, b1 - c1, b2 - a2, d1 - c1, a - a2 + c2, a2$
$+ b - c2, -c2 + d2 + h\rangle, \langle c, a1 - c1, b1 - c1, b2 - a2, d1 - c1, a - a2 + c2, a2$
$+ b - c2, c2 - d2 + h\rangle, \langle c, a1 - c1, b1 - c1, b2 - a2, d1 - c1, a + a2 - c2, -a2$
$+ b + c2, -c2 + d2 + h\rangle, \langle c, a1 - c1, b1 - c1, b2 - a2, d1 - c1, a + a2 - c2, -a2$
$+ b + c2, c2 - d2 + h\rangle, \langle c, a1 - c1, b1 - c1, b2 - a2, d1 - c1, a + a2 - c2, a2 + b$
$- c2, -c2 + d2 + h\rangle, \langle c, a1 - c1, b1 - c1, b2 - a2, d1 - c1, a + a2 - c2, a2 + b$
$- c2, c2 - d2 + h\rangle, \langle h, a1 - c1, b1 - c1, d1 - c1, d2 - c2, a - b2 + c2, -a2 + b$
$+ c2, -a2 + b2 + c\rangle, \langle h, a1 - c1, b1 - c1, d1 - c1, d2 - c2, a - b2 + c2, -a2 + b$
$+ c2, a2 - b2 + c\rangle, \langle h, a1 - c1, b1 - c1, d1 - c1, d2 - c2, a - b2 + c2, -a2 + b2$
$+ c, a2 + b - c2\rangle, \langle h, a1 - c1, b1 - c1, d1 - c1, d2 - c2, a - b2 + c2, a2 + b - c2,$
$a2 - b2 + c\rangle, \langle h, a1 - c1, b1 - c1, d1 - c1, d2 - c2, a + b2 - c2, -a2 + b + c2,$
$-a2 + b2 + c\rangle, \langle h, a1 - c1, b1 - c1, d1 - c1, d2 - c2, a + b2 - c2, -a2 + b + c2,$
$a2 - b2 + c\rangle, \langle h, a1 - c1, b1 - c1, d1 - c1, d2 - c2, a + b2 - c2, -a2 + b2 + c, a2$
$+ b - c2\rangle, \langle h, a1 - c1, b1 - c1, d1 - c1, d2 - c2, a + b2 - c2, a2 + b - c2, a2 - b2$
$+ c\rangle, \langle a, b, c, h, a1 - c1, b1 - c1, b2 - c2, -c2 + a2, d1 - c1, d2 - c2\rangle, \langle h, d1$
$- c1, d2 - c2, a - b + c, a\,a1 - a\,c1 - b\,b1 + b\,c1, -a\,a2 + a\,c2 + b2\,b - b\,c2,$
$a1\,b2 - a1\,c2 - a2\,b1 + a2\,c1 + b1\,c2 - b2\,c1, -a^2 + b1^2 - 2\,b1\,c1 + b2^2 - 2\,b2\,c2$
$+ c1^2 + c2^2, -a1^2 + 2\,a1\,c1 - a2^2 + 2\,c2\,a2 + b^2 - c1^2 - c2^2, -a\,b + a1\,b1 - a1\,c1$
$+ b2\,a2 - c2\,a2 - b1\,c1 - b2\,c2 + c1^2 + c2^2\rangle, \langle h, d1 - c1, d2 - c2, a + b + c, a\,a1$
$- a\,c1 + b\,b1 - b\,c1, a\,a2 - a\,c2 + b2\,b - b\,c2, a1\,b2 - a1\,c2 - a2\,b1 + a2\,c1$
$+ b1\,c2 - b2\,c1, -a^2 + b1^2 - 2\,b1\,c1 + b2^2 - 2\,b2\,c2 + c1^2 + c2^2, -a1^2 + 2\,a1\,c1$
$- a2^2 + 2\,c2\,a2 + b^2 - c1^2 - c2^2, a\,b + a1\,b1 - a1\,c1 + b2\,a2 - c2\,a2 - b1\,c1$
$- b2\,c2 + c1^2 + c2^2\rangle, \langle h, d1 - c1, d2 - c2, c - b - a, a\,a1 - a\,c1 + b\,b1 - b\,c1, a\,a2$
$- a\,c2 + b2\,b - b\,c2, a1\,b2 - a1\,c2 - a2\,b1 + a2\,c1 + b1\,c2 - b2\,c1, -a^2 + b1^2$
$- 2\,b1\,c1 + b2^2 - 2\,b2\,c2 + c1^2 + c2^2, -a1^2 + 2\,a1\,c1 - a2^2 + 2\,c2\,a2 + b^2 - c1^2$
$- c2^2, a\,b + a1\,b1 - a1\,c1 + b2\,a2 - c2\,a2 - b1\,c1 - b2\,c2 + c1^2 + c2^2\rangle, \langle h, d1$
$- c1, d2 - c2, c + b - a, a\,a1 - a\,c1 - b\,b1 + b\,c1, -a\,a2 + a\,c2 + b2\,b - b\,c2,$
$a1\,b2 - a1\,c2 - a2\,b1 + a2\,c1 + b1\,c2 - b2\,c1, -a^2 + b1^2 - 2\,b1\,c1 + b2^2 - 2\,b2\,c2$
$+ c1^2 + c2^2, -a1^2 + 2\,a1\,c1 - a2^2 + 2\,c2\,a2 + b^2 - c1^2 - c2^2, -a\,b + a1\,b1 - a1\,c1$
$+ b2\,a2 - c2\,a2 - b1\,c1 - b2\,c2 + c1^2 + c2^2\rangle, \langle a, b, c, h, a1^2 - 2\,a1\,b1 + a2^2$
$- 2\,b2\,a2 + b1^2 + b2^2, a1^2 - 2\,a1\,c1 + a2^2 - 2\,c2\,a2 + c1^2 + c2^2, a1^2 - 2\,a1\,d1$
$+ a2^2 - 2\,d2\,a2 + d1^2 + d2^2, a1\,b2 - a1\,c2 - a2\,b1 + a2\,c1 + b1\,c2 - b2\,c1, -a1\,b2$
$+ d2\,a1 + a2\,b1 - a2\,d1 - d2\,b1 + d1\,b2, -a1\,c2 + d2\,a1 + a2\,c1 - a2\,d1 - c1\,d2$
$+ c2\,d1, a1^2 - a1\,b1 - a1\,c1 + a2^2 - b2\,a2 - c2\,a2 + b1\,c1 + b2\,c2, a1^2 - a1\,b1$

$$-a1\,d1 + a2^2 - b2\,a2 - d2\,a2 + d1\,b1 + d2\,b2,\ a1^2 - a1\,c1 - a1\,d1 + a2^2 - c2\,a2 - d2\,a2 + c1\,d1 + c2\,d2\rangle$$

And only the first two are non-degenerate, with respect to the variables {a1,b2,c1,d1,d2,h}

for i **from** 1 **to** 29 **do** $EliminationIdeal(PP[i], \{a1, b2, c1, c2, d2, h\})$ **od**;

$$\langle 0\rangle$$
$$\langle 0\rangle$$
$$\langle a1^2 - 2\,a1\,c1 + b2^2 - 2\,b2\,c2 + c1^2 + c2^2\rangle$$
$$\langle -c2 + d2 + h\rangle$$
$$\langle c2 - d2 + h\rangle$$
$$\langle -c2 + d2 + h\rangle$$
$$\langle c2 - d2 + h\rangle$$
$$\langle a1 - c1, -c2 + d2 + h\rangle$$
$$\langle a1 - c1, c2 - d2 + h\rangle$$
$$\langle a1 - c1, -c2 + d2 + h\rangle$$
$$\langle a1 - c1, c2 - d2 + h\rangle$$
$$\langle a1 - c1, -c2 + d2 + h\rangle$$
$$\langle a1 - c1, c2 - d2 + h\rangle$$
$$\langle a1 - c1, -c2 + d2 + h\rangle$$
$$\langle a1 - c1, c2 - d2 + h\rangle$$
$$\langle h, a1 - c1, d2 - c2\rangle$$
$$\langle h, a1 - c1, d2 - c2\rangle$$
$$\langle h, a1 - c1, d2 - c2\rangle$$
$$\langle h, a1 - c1, d2 - c2\rangle$$
$$\langle h, a1 - c1, d2 - c2\rangle$$
$$\langle h, a1 - c1, d2 - c2\rangle$$
$$\langle h, a1 - c1, d2 - c2\rangle$$
$$\langle h, a1 - c1, d2 - c2\rangle$$
$$\langle h, a1 - c1, b2 - c2, d2 - c2\rangle$$
$$\langle h, d2 - c2\rangle$$
$$\langle h, d2 - c2\rangle$$
$$\langle h, d2 - c2\rangle$$
$$\langle h, d2 - c2\rangle$$
$$\langle h\rangle \tag{1.23}$$

And now we verify that the thesis 3*(a+b+c)^4-18^2*c^2*h^2=0 does vanish over the first component, but not over the second

$$3*(a+b+c)\text{^}4-18\text{^}2*c\text{^}2*h\text{^}2 \textbf{ in } PP[1]; 3*(a+b+c)\text{^}4-18\text{^}2*c\text{^}2*h\text{^}2 \textbf{ in } PP[2]$$

$$true$$

$$false \qquad \textbf{(1.24)}$$

Indeed, the first component has c=0 (a further degenerate case over the reals, as it implies A=B) and a+b=0, so the thesis 3*(a+b+c)^4-18^2*c^2*h^2 is identically zero. On the other hand, the second component has c=0 but a=b, so 3*(a+b+c)^4-18^2*c^2*h^2 becomes 6*a, and although ABC are aligned, a^2=((c1-b1)^2+(c2-b2)^2) does not have to be zero, if C and B do not coincide!!

As it is clear that this approach does not seems quite suitable, let us try to simplify the whole framework, by fixing some values for A, B, without loss of generality.

The specialization of g to the case A=(0,0), B=(1,0) is given below:

$$gg := subs([a1=0, a2=0, b1=1, b2=0], g); nops(\%); factor(gg);$$

$$\begin{aligned} gg := {} & 729\, c1^8\, c2^4 + 2916\, c1^6\, c2^6 + 4374\, c1^4\, c2^8 + 2916\, c1^2\, c2^{10} + 729\, c2^{12} - 2916\, c1^7\, c2^4 \\ & - 8748\, c1^5\, c2^6 - 8748\, c1^3\, c2^8 - 2916\, c1\, c2^{10} - 108\, c1^8\, c2^2 + 4050\, c1^6\, c2^4 \\ & - 702\, c1^4\, c2^6 - 13986\, c1^2\, c2^8 - 9126\, c2^{10} + 432\, c1^7\, c2^2 - 1944\, c1^5\, c2^4 \\ & + 15984\, c1^3\, c2^6 + 18360\, c1\, c2^8 - 648\, c1^6\, c2^2 + 1107\, c1^4\, c2^4 - 27810\, c1^2\, c2^6 \\ & + 8851\, c2^8 + 432\, c1^5\, c2^2 - 2376\, c1^3\, c2^4 + 18360\, c1\, c2^6 - 108\, c1^4\, c2^2 + 4266\, c1^2\, c2^4 \\ & - 9126\, c2^6 - 2916\, c1\, c2^4 + 729\, c2^4 \end{aligned}$$

$$30$$

$$\begin{aligned} & c2^2\, (729\, c1^8\, c2^2 + 2916\, c1^6\, c2^4 + 4374\, c1^4\, c2^6 + 2916\, c1^2\, c2^8 + 729\, c2^{10} - 2916\, c1^7\, c2^2 \\ & - 8748\, c1^5\, c2^4 - 8748\, c1^3\, c2^6 - 2916\, c1\, c2^8 - 108\, c1^8 + 4050\, c1^6\, c2^2 - 702\, c1^4\, c2^4 \\ & - 13986\, c1^2\, c2^6 - 9126\, c2^8 + 432\, c1^7 - 1944\, c1^5\, c2^2 + 15984\, c1^3\, c2^4 + 18360\, c1\, c2^6 \\ & - 648\, c1^6 + 1107\, c1^4\, c2^2 - 27810\, c1^2\, c2^4 + 8851\, c2^6 + 432\, c1^5 - 2376\, c1^3\, c2^2 \\ & + 18360\, c1\, c2^4 - 108\, c1^4 + 4266\, c1^2\, c2^2 - 9126\, c2^4 - 2916\, c1\, c2^2 + 729\, c2^2) \end{aligned} \qquad \textbf{(1.25)}$$

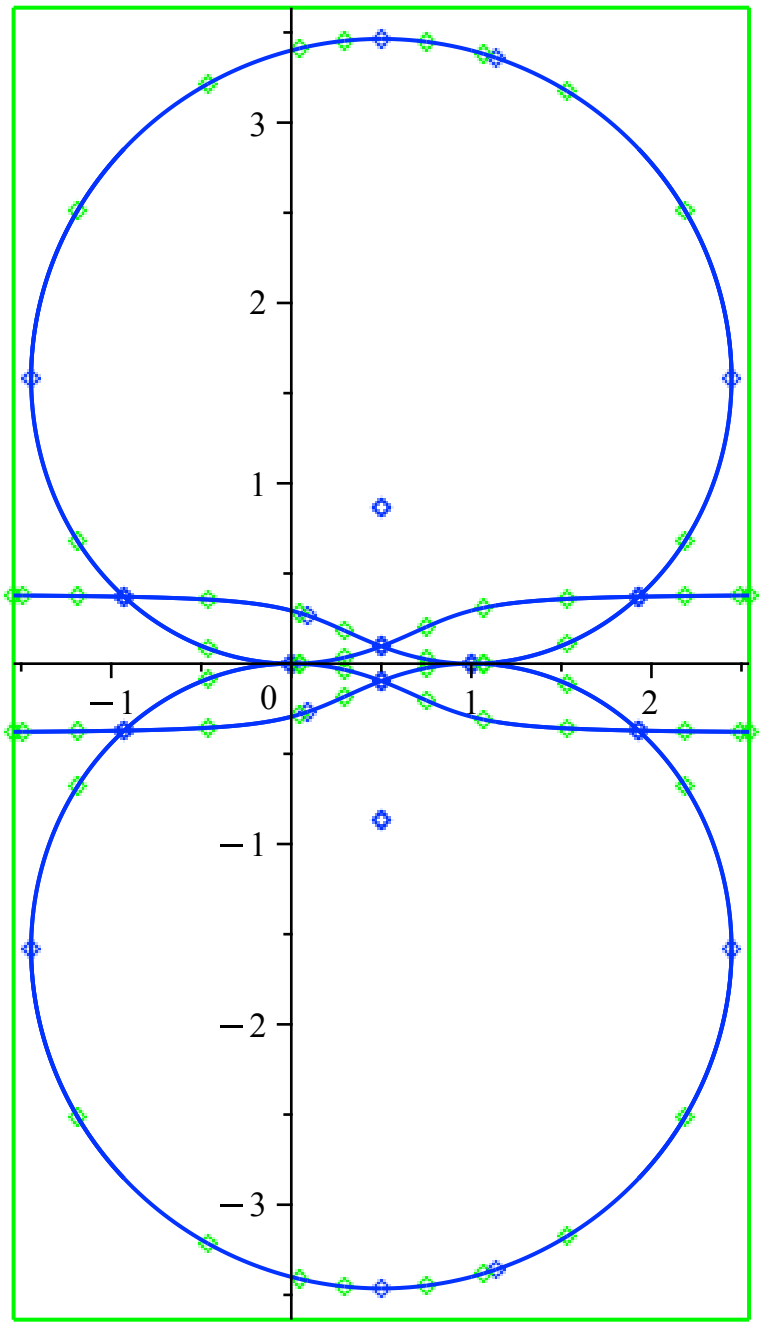
Notice that 1.25 coincides with the result of specializing CD to the case A=(0,0), B=(1,0) and then eliminating over the variables {c1,c2}

$$EliminationIdeal(\langle a\text{^}2-((c1-1)\text{^}2+(c2-0)\text{^}2), b\text{^}2-((c1-0)\text{^}2+(c2-0)\text{^}2), h\text{^}2 - ((d1-c1)\text{^}2+(d2-c2)\text{^}2), (d1-0)*(0-0)-(d2-0)*(1-0), (d1-c1)*(1-0) + (d2-c2)*(0-0), (18*1*h)\text{^}2-3*(a+b+1)\text{^}4\rangle, \{c1, c2\});$$

$$\langle 729\, c1^8\, c2^4 + 2916\, c1^6\, c2^6 + 4374\, c1^4\, c2^8 + 2916\, c1^2\, c2^{10} + 729\, c2^{12} - 2916\, c1^7\, c2^4 - 8748\, c1^5\, c2^6 - 8748\, c1^3\, c2^8 - 2916\, c1\, c2^{10} - 108\, c1^8\, c2^2 + 4050\, c1^6\, c2^4 - 702\, c1^4\, c2^6 - 13986\, c1^2\, c2^8 - 9126\, c2^{10} + 432\, c1^7\, c2^2 - 1944\, c1^5\, c2^4 + 15984\, c1^3\, c2^6 + 18360\, c1\, c2^8 - 648\, c1^6\, c2^2 + 1107\, c1^4\, c2^4 - 27810\, c1^2\, c2^6 + 8851\, c2^8 + 432\, c1^5\, c2^2 - 2376\, c1^3\, c2^4 + 18360\, c1\, c2^6 - 108\, c1^4\, c2^2 + 4266\, c1^2\, c2^4 - 9126\, c2^6 - 2916\, c1\, c2^4 + 729\, c2^4 \rangle \tag{1.26}$$

And the corresponding locus is

$with(algcurves) : plot_real_curve(gg, c1, c2);$



including the axis c2=0, that is missing in the plot. Now we repeat the previous protocol considering the factors of gg as potential sufficient conditions for the equality $3*(a+b+c)\text{^}4-18\text{^}2*c\text{^}2*h\text{^}2$ to hold on a specialized triangle. First we test if the factor c2 of gg is a sufficient condition:

$HilbertDimension(\langle -d2, d1-c1, a\text{^}2-(c1-1)\text{^}2-c2\text{^}2, h\text{^}2-(d1-c1)\text{^}2-(d2-c2)\text{^}2, c\text{^}2-1, b\text{^}2-c1\text{^}2-c2\text{^}2, c2\rangle); EliminationIdeal(\langle -d2, d1-c1, a\text{^}2-(c1-1)\text{^}2-c2\text{^}2, h\text{^}2-(d1-c1)\text{^}2-(d2-c2)\text{^}2, c\text{^}2-1, b\text{^}2-c1\text{^}2-c2\text{^}2, c2\rangle, \{c1\});$

$$1$$

$$\langle 0 \rangle \tag{1.27}$$

and now we verify if the equality holds under these hypotheses (CD+ <c2>), but it is neither true not false

$$EliminationIdeal(\langle -d2, d1 - c1, a\text{^}2 - (c1 - 1)\text{^}2 - c2\text{^}2, h\text{^}2 - (d1 - c1)\text{^}2 - (d2 - c2)\text{^}2, c\text{^}2 - 1, b\text{^}2 - c1\text{^}2 - c2\text{^}2, c2, 3 * (a + b + c)\text{^}4 - 18\text{^}2 * c\text{^}2 * h\text{^}2\rangle, \{c1\});$$

$$\langle 0 \rangle \tag{1.28}$$

$$EliminationIdeal(\langle -d2, d1 - c1, a\text{^}2 - (c1 - 1)\text{^}2 - c2\text{^}2, h\text{^}2 - (d1 - c1)\text{^}2 - (d2 - c2)\text{^}2, c\text{^}2 - 1, b\text{^}2 - c1\text{^}2 - c2\text{^}2, c2, (3 * (a + b + c)\text{^}4 - 18\text{^}2 * c\text{^}2 * h\text{^}2) * t - 1\rangle, \{c1\});$$

$$\langle 0 \rangle \tag{1.29}$$

So now we perform a PrimeDecompostion to learn over which components the equality holds and over which it fails:

$$SS := PrimeDecomposition(\langle -d2, d1 - c1, a\text{^}2 - (c1 - 1)\text{^}2 - c2\text{^}2, h\text{^}2 - (d1 - c1)\text{^}2 - (d2 - c2)\text{^}2, c\text{^}2 - 1, b\text{^}2 - c1\text{^}2 - c2\text{^}2, c2\rangle, removeredundant = true);$$

$$SS := \langle c2, d2, h, b - c1, c - 1, d1 - c1, a - 1 + c1\rangle, \langle c2, d2, h, b - c1, c - 1, d1 - c1, a + 1 - c1\rangle, \langle c2, d2, h, b - c1, c + 1, d1 - c1, a - 1 + c1\rangle, \langle c2, d2, h, b - c1, c + 1, d1 - c1, a + 1 - c1\rangle, \langle c2, d2, h, b + c1, c - 1, d1 - c1, a - 1 + c1\rangle, \langle c2, d2, h, b + c1, c - 1, d1 - c1, a + 1 - c1\rangle, \langle c2, d2, h, b + c1, c + 1, d1 - c1, a - 1 + c1\rangle, \langle c2, d2, h, b + c1, c + 1, d1 - c1, a + 1 - c1\rangle \tag{1.30}$$

we verify that all these 8 components are non-degenerate (for the ideal CD+<C2>)

for i **from** 1 **to** 8 **do** $EliminationIdeal(SS[i], \{c1\})$ **od**;

$$\langle 0 \rangle$$
$$\langle 0 \rangle$$
$$\langle 0 \rangle$$
$$\langle 0 \rangle$$
$$\langle 0 \rangle$$
$$\langle 0 \rangle$$
$$\langle 0 \rangle$$
$$\langle 0 \rangle \tag{1.31}$$

and now we check the components that include the thesis $3 * (a + b + c)\text{^}4 - 18\text{^}2 * c\text{^}2 * h\text{^}2$

for i **from** 1 **to** 8 **do** $3 * (a + b + c)\text{^}4 - 18\text{^}2 * c\text{^}2 * h\text{^}2$ **in** $SS[i]$ **od**;

$$false$$
$$false$$
$$true$$
$$false$$
$$false$$
$$true$$
$$false$$
$$false \tag{1.32}$$

We conclude that the third and the sixth components,where the statement is true, both have some conditions that affect the sign of c (negative for the third component) or a negative if assumed b positive (sixth component). Thus it is not clear, from the real point of view, how to interpret the locus of real triangles (even degenerate) that hold the sought thesis.

Finally, we develop the same steps for the other factor of gg, namely

$$\begin{aligned}(&729\, c1^8\, c2^2 + 2916\, c1^6\, c2^4 + 4374\, c1^4\, c2^6 + 2916\, c1^2\, c2^8 + 729\, c2^{10} - 2916\, c1^7\, c2^2 \\ &- 8748\, c1^5\, c2^4 - 8748\, c1^3\, c2^6 - 2916\, c1\, c2^8 - 108\, c1^8 + 4050\, c1^6\, c2^2 - 702\, c1^4\, c2^4 \\ &- 13986\, c1^2\, c2^6 - 9126\, c2^8 + 432\, c1^7 - 1944\, c1^5\, c2^2 + 15984\, c1^3\, c2^4 + 18360\, c1\, c2^6 \\ &- 648\, c1^6 + 1107\, c1^4\, c2^2 - 27810\, c1^2\, c2^4 + 8851\, c2^6 + 432\, c1^5 - 2376\, c1^3\, c2^2 \\ &+ 18360\, c1\, c2^4 - 108\, c1^4 + 4266\, c1^2\, c2^2 - 9126\, c2^4 - 2916\, c1\, c2^2 + 729\, c2^2)\end{aligned}$$

```
> restart: with(PolynomialIdeals):
> HilbertDimension(<-d2, d1 -1, a^2 - (c1 - 1)^2 - c2^2, h^2 - (d1
  - c1)^2 - (d2 - c2)^2, c^2 - 1, b^2 - c1^2 - c2^2, 729*c1^8*c2^2
  + 2916*c1^6*c2^4 + 4374*c1^4*c2^6 + 2916*c1^2*c2^8 + 729*c2^10 -
  2916*c1^7*c2^2 - 8748*c1^5*c2^4 - 8748*c1^3*c2^6 - 2916*c1*c2^8 -
  108*c1^8 + 4050*c1^6*c2^2 - 702*c1^4*c2^4 - 13986*c1^2*c2^6 -
  9126*c2^8 + 432*c1^7 - 1944*c1^5*c2^2 + 15984*c1^3*c2^4 + 18360*
  c1*c2^6 - 648*c1^6 + 1107*c1^4*c2^2 - 27810*c1^2*c2^4 + 8851*c2^6
  + 432*c1^5 - 2376*c1^3*c2^2 + 18360*c1*c2^4 - 108*c1^4 + 4266*
  c1^2*c2^2 - 9126*c2^4 - 2916*c1*c2^2 + 729*c2^2>);
  EliminationIdeal(<-d2, d1 - c1, a^2 - (c1 - 1)^2 - c2^2, h^2 -
  (d1 - c1)^2 - (d2 - c2)^2, c^2 - 1, b^2 - c1^2 - c2^2, 729*c1^8*
  c2^2 + 2916*c1^6*c2^4 + 4374*c1^4*c2^6 + 2916*c1^2*c2^8 + 729*
  c2^10 - 2916*c1^7*c2^2 - 8748*c1^5*c2^4 - 8748*c1^3*c2^6 - 2916*
  c1*c2^8 - 108*c1^8 + 4050*c1^6*c2^2 - 702*c1^4*c2^4 - 13986*c1^2*
  c2^6 - 9126*c2^8 + 432*c1^7 - 1944*c1^5*c2^2 + 15984*c1^3*c2^4 +
  18360*c1*c2^6 - 648*c1^6 + 1107*c1^4*c2^2 - 27810*c1^2*c2^4 +
  8851*c2^6 + 432*c1^5 - 2376*c1^3*c2^2 + 18360*c1*c2^4 - 108*c1^4
  + 4266*c1^2*c2^2 - 9126*c2^4 - 2916*c1*c2^2 + 729*c2^2>,{c1});
```

$$1$$
$$\langle 0 \rangle \tag{1.33}$$

Thus, now we check if the equality $3*(a+b+c)$^4−18^2*$c^{2*}h$^2=0 holds in this ideal CD+<first factor gg>, but it turns to be neither true nor false

```
> EliminationIdeal(<-d2, d1 - c1, a^2 - (c1 - 1)^2 - c2^2, h^2 -
  (d1 - c1)^2 - (d2 - c2)^2, c^2 - 1, b^2 - c1^2 - c2^2, 729*c1^8*
  c2^2 + 2916*c1^6*c2^4 + 4374*c1^4*c2^6 + 2916*c1^2*c2^8 + 729*
  c2^10 - 2916*c1^7*c2^2 - 8748*c1^5*c2^4 - 8748*c1^3*c2^6 - 2916*
  c1*c2^8 - 108*c1^8 + 4050*c1^6*c2^2 - 702*c1^4*c2^4 - 13986*c1^2*
  c2^6 - 9126*c2^8 + 432*c1^7 - 1944*c1^5*c2^2 + 15984*c1^3*c2^4 +
  18360*c1*c2^6 - 648*c1^6 + 1107*c1^4*c2^2 - 27810*c1^2*c2^4 +
  8851*c2^6 + 432*c1^5 - 2376*c1^3*c2^2 + 18360*c1*c2^4 - 108*c1^4
  + 4266*c1^2*c2^2 - 9126*c2^4 - 2916*c1*c2^2 + 729*c2^2,3*(a+b+c)
  ^4-18^2*c^2*h^2> ,{c1});
```

$$\langle 0 \rangle \tag{1.34}$$

```
> EliminationIdeal(<-d2, d1 - c1, a^2 - (c1 - 1)^2 - c2^2, h^2 -
  (d1 - c1)^2 - (d2 - c2)^2, c^2 - 1, b^2 - c1^2 - c2^2, 729*c1^8*
  c2^2 + 2916*c1^6*c2^4 + 4374*c1^4*c2^6 + 2916*c1^2*c2^8 + 729*
  c2^10 - 2916*c1^7*c2^2 - 8748*c1^5*c2^4 - 8748*c1^3*c2^6 - 2916*
  c1*c2^8 - 108*c1^8 + 4050*c1^6*c2^2 - 702*c1^4*c2^4 - 13986*c1^2*
  c2^6 - 9126*c2^8 + 432*c1^7 - 1944*c1^5*c2^2 + 15984*c1^3*c2^4 +
  18360*c1*c2^6 - 648*c1^6 + 1107*c1^4*c2^2 - 27810*c1^2*c2^4 +
  8851*c2^6 + 432*c1^5 - 2376*c1^3*c2^2 + 18360*c1*c2^4 - 108*c1^4
  + 4266*c1^2*c2^2 - 9126*c2^4 - 2916*c1*c2^2 + 729*c2^2,(3*(a+b+c)
  ^4-18^2*c^2*h^2)*t-1> ,{c1});
```

$$\langle 0 \rangle \tag{1.35}$$

So we compute a primedecomposition of CD+<first factor gg> to learn the components where the equality $3*(a+b+c)$^4−18^2*$c^{2*}h$^2=0 is true:

```
> MM:=PrimeDecomposition(<-d2, d1 - c1, a^2 - (c1 - 1)^2 - c2^2,
  h^2 - (d1 - c1)^2 - (d2 - c2)^2, c^2 - 1, b^2 - c1^2 - c2^2, 729*
  c1^8*c2^2 + 2916*c1^6*c2^4 + 4374*c1^4*c2^6 + 2916*c1^2*c2^8 +
  729*c2^10 - 2916*c1^7*c2^2 - 8748*c1^5*c2^4 - 8748*c1^3*c2^6 -
  2916*c1*c2^8 - 108*c1^8 + 4050*c1^6*c2^2 - 702*c1^4*c2^4 - 13986*
  c1^2*c2^6 - 9126*c2^8 + 432*c1^7 - 1944*c1^5*c2^2 + 15984*c1^3*
  c2^4 + 18360*c1*c2^6 - 648*c1^6 + 1107*c1^4*c2^2 - 27810*c1^2*
  c2^4 + 8851*c2^6 + 432*c1^5 - 2376*c1^3*c2^2 + 18360*c1*c2^4 -
  108*c1^4 + 4266*c1^2*c2^2 - 9126*c2^4 - 2916*c1*c2^2 + 729*c2^2>,
  removeredundant=true);
```

$$MM := \langle d2, c-1, -c2+h, d1-c1, b^2-c1^2-c2^2, a^2-c1^2-c2^2+2\,c1-1, -a\,c1^2 - a\,c2^2 + b\,c1^2 + b\,c2^2 - 15\,a\,b + 14\,a\,c1 + 12\,b\,c1 - 12\,c1^2 - 12\,c2^2 - a - 12\,b \tag{1.36}$$

$+ 12\, c1 + 1, 13\, a\, b\, c2^2 + 14\, c1^2\, c2^2 + 14\, c2^4 - a\, c2^2 + b\, c2^2 - 14\, c1\, c2^2 - a\, b$
$- a\, c1 - b\, c1 - c1^2 + c2^2 + b + c1, 13\, a\, b\, c1 - 27\, a\, c1^2 - 27\, a\, c2^2 + 14\, c1^3$
$+ 14\, c1\, c2^2 - 209\, a\, b + 195\, a\, c1 + 183\, b\, c1 - 183\, c1^2 - 169\, c2^2 - 13\, a - 169\, b$
$+ 170\, c1 + 13, 351\, a\, c1^3 + 351\, a\, c1\, c2^2 - 351\, c1^4 - 702\, c1^2\, c2^2 - 351\, c2^4$
$+ 378\, a\, c1^2 + 2926\, a\, c2^2 + 2366\, b\, c2^2 - 27\, c1^3 - 27\, c1\, c2^2 + 560\, a\, b - 169\, a\, c1$
$- 547\, b\, c1 + 560\, c1^2 + 2366\, c2^2 + 169\, b - 560\, c1, 351\, c1^2\, c2^2\, a + 351\, c2^4\, a$
$- 2548\, a\, c1\, c2^2 - 2366\, b\, c1\, c2^2 - 729\, c1^2\, c2^2 - 729\, c2^4 - 53\, a\, c1^2 + 338\, a\, c2^2$
$+ 2001\, b\, c2^2 + c1^3 + 743\, c1\, c2^2 - 195\, a\, b + 586\, a\, c1 + 561\, b\, c1 - 117\, c1^2$
$- 703\, c2^2 - 26\, a - 534\, b + 117\, c1 + 26, 9477\, c1^4\, c2^2 + 18954\, c1^2\, c2^4 + 9477\, c2^6$
$- 18954\, c1^3\, c2^2 - 18954\, c1\, c2^4 - 127764\, a\, c1\, c2^2 - 127764\, b\, c1\, c2^2 - 1404\, c1^4$
$- 13041\, c1^2\, c2^2 - 80433\, c2^4 + 14978\, a\, c2^2 + 112786\, b\, c2^2 + 2808\, c1^3$
$+ 22518\, c1\, c2^2 - 9410\, a\, b + 29200\, a\, c1 + 29200\, b\, c1 - 9410\, c1^2 - 24455\, c2^2$
$- 702\, a - 28498\, b + 8006\, c1 + 702\rangle, \langle d2, c - 1, -c2 + h, d1 - c1, b^2 - c1^2 - c2^2,$
$a^2 - c1^2 - c2^2 + 2\, c1 - 1, -a\, c1^2 - a\, c2^2 + b\, c1^2 + b\, c2^2 + 15\, a\, b + 14\, a\, c1$
$+ 12\, b\, c1 + 12\, c1^2 + 12\, c2^2 - a - 12\, b - 12\, c1 - 1, 13\, a\, b\, c2^2 + 14\, c1^2\, c2^2 + 14\, c2^4$
$+ a\, c2^2 - b\, c2^2 - 14\, c1\, c2^2 - a\, b + a\, c1 + b\, c1 - c1^2 + c2^2 - b + c1, 13\, a\, b\, c1$
$+ 27\, a\, c1^2 + 27\, a\, c2^2 + 14\, c1^3 + 14\, c1\, c2^2 - 209\, a\, b - 195\, a\, c1 - 183\, b\, c1$
$- 183\, c1^2 - 169\, c2^2 + 13\, a + 169\, b + 170\, c1 + 13, 351\, a\, c1^3 + 351\, a\, c1\, c2^2$
$+ 351\, c1^4 + 702\, c1^2\, c2^2 + 351\, c2^4 + 378\, a\, c1^2 + 2926\, a\, c2^2 + 2366\, b\, c2^2 + 27\, c1^3$
$+ 27\, c1\, c2^2 - 560\, a\, b - 169\, a\, c1 - 547\, b\, c1 - 560\, c1^2 - 2366\, c2^2 + 169\, b$
$+ 560\, c1, 351\, c1^2\, c2^2\, a + 351\, c2^4\, a - 2548\, a\, c1\, c2^2 - 2366\, b\, c1\, c2^2 + 729\, c1^2\, c2^2$
$+ 729\, c2^4 - 53\, a\, c1^2 + 338\, a\, c2^2 + 2001\, b\, c2^2 - c1^3 - 743\, c1\, c2^2 + 195\, a\, b$
$+ 586\, a\, c1 + 561\, b\, c1 + 117\, c1^2 + 703\, c2^2 - 26\, a - 534\, b - 117\, c1 - 26,$
$9477\, c1^4\, c2^2 + 18954\, c1^2\, c2^4 + 9477\, c2^6 - 18954\, c1^3\, c2^2 - 18954\, c1\, c2^4$
$+ 127764\, a\, c1\, c2^2 + 127764\, b\, c1\, c2^2 - 1404\, c1^4 - 13041\, c1^2\, c2^2 - 80433\, c2^4$
$- 14978\, a\, c2^2 - 112786\, b\, c2^2 + 2808\, c1^3 + 22518\, c1\, c2^2 - 9410\, a\, b - 29200\, a\, c1$
$- 29200\, b\, c1 - 9410\, c1^2 - 24455\, c2^2 + 702\, a + 28498\, b + 8006\, c1 + 702\rangle, \langle d2, c$
$- 1, -c2 + h, d1 - c1, b^2 - c1^2 - c2^2, a^2 - c1^2 - c2^2 + 2\, c1 - 1, a\, c1^2 + a\, c2^2$
$+ b\, c1^2 + b\, c2^2 - 15\, a\, b - 14\, a\, c1 + 12\, b\, c1 + 12\, c1^2 + 12\, c2^2 + a - 12\, b - 12\, c1$
$- 1, 13\, a\, b\, c2^2 - 14\, c1^2\, c2^2 - 14\, c2^4 + a\, c2^2 + b\, c2^2 + 14\, c1\, c2^2 - a\, b + a\, c1 - b\, c1$
$+ c1^2 - c2^2 + b - c1, 13\, a\, b\, c1 + 27\, a\, c1^2 + 27\, a\, c2^2 - 14\, c1^3 - 14\, c1\, c2^2 - 209\, a\, b$
$- 195\, a\, c1 + 183\, b\, c1 + 183\, c1^2 + 169\, c2^2 + 13\, a - 169\, b - 170\, c1 - 13, 351\, a\, c1^3$
$+ 351\, a\, c1\, c2^2 - 351\, c1^4 - 702\, c1^2\, c2^2 - 351\, c2^4 + 378\, a\, c1^2 + 2926\, a\, c2^2$
$- 2366\, b\, c2^2 - 27\, c1^3 - 27\, c1\, c2^2 - 560\, a\, b - 169\, a\, c1 + 547\, b\, c1 + 560\, c1^2$

$+ 2366\, c2^2 - 169\, b - 560\, c1, 351\, c1^2\, c2^2\, a + 351\, c2^4\, a - 2548\, a\, c1\, c2^2$
$+ 2366\, b\, c1\, c2^2 - 729\, c1^2\, c2^2 - 729\, c2^4 - 53\, a\, c1^2 + 338\, a\, c2^2 - 2001\, b\, c2^2 + c1^3$
$+ 743\, c1\, c2^2 + 195\, a\, b + 586\, a\, c1 - 561\, b\, c1 - 117\, c1^2 - 703\, c2^2 - 26\, a + 534\, b$
$+ 117\, c1 + 26, 9477\, c1^4\, c2^2 + 18954\, c1^2\, c2^4 + 9477\, c2^6 - 18954\, c1^3\, c2^2$
$- 18954\, c1\, c2^4 - 127764\, a\, c1\, c2^2 + 127764\, b\, c1\, c2^2 - 1404\, c1^4 - 13041\, c1^2\, c2^2$
$- 80433\, c2^4 + 14978\, a\, c2^2 - 112786\, b\, c2^2 + 2808\, c1^3 + 22518\, c1\, c2^2 + 9410\, a\, b$
$+ 29200\, a\, c1 - 29200\, b\, c1 - 9410\, c1^2 - 24455\, c2^2 - 702\, a + 28498\, b + 8006\, c1$
$+ 702\rangle, \langle d2, c - 1, -c2 + h, d1 - c1, b^2 - c1^2 - c2^2, a^2 - c1^2 - c2^2 + 2\, c1 - 1,$
$a\, c1^2 + a\, c2^2 + b\, c1^2 + b\, c2^2 + 15\, a\, b - 14\, a\, c1 + 12\, b\, c1 - 12\, c1^2 - 12\, c2^2 + a$
$- 12\, b + 12\, c1 + 1, 13\, a\, b\, c2^2 - 14\, c1^2\, c2^2 - 14\, c2^4 - a\, c2^2 - b\, c2^2 + 14\, c1\, c2^2$
$- a\, b - a\, c1 + b\, c1 + c1^2 - c2^2 - b - c1, 13\, a\, b\, c1 - 27\, a\, c1^2 - 27\, a\, c2^2 - 14\, c1^3$
$- 14\, c1\, c2^2 - 209\, a\, b + 195\, a\, c1 - 183\, b\, c1 + 183\, c1^2 + 169\, c2^2 - 13\, a + 169\, b$
$- 170\, c1 - 13, 351\, a\, c1^3 + 351\, a\, c1\, c2^2 + 351\, c1^4 + 702\, c1^2\, c2^2 + 351\, c2^4$
$+ 378\, a\, c1^2 + 2926\, a\, c2^2 - 2366\, b\, c2^2 + 27\, c1^3 + 27\, c1\, c2^2 + 560\, a\, b - 169\, a\, c1$
$+ 547\, b\, c1 - 560\, c1^2 - 2366\, c2^2 - 169\, b + 560\, c1, 351\, c1^2\, c2^2\, a + 351\, c2^4\, a$
$- 2548\, a\, c1\, c2^2 + 2366\, b\, c1\, c2^2 + 729\, c1^2\, c2^2 + 729\, c2^4 - 53\, a\, c1^2 + 338\, a\, c2^2$
$- 2001\, b\, c2^2 - c1^3 - 743\, c1\, c2^2 - 195\, a\, b + 586\, a\, c1 - 561\, b\, c1 + 117\, c1^2$
$+ 703\, c2^2 - 26\, a + 534\, b - 117\, c1 - 26, 9477\, c1^4\, c2^2 + 18954\, c1^2\, c2^4 + 9477\, c2^6$
$- 18954\, c1^3\, c2^2 - 18954\, c1\, c2^4 + 127764\, a\, c1\, c2^2 - 127764\, b\, c1\, c2^2 - 1404\, c1^4$
$- 13041\, c1^2\, c2^2 - 80433\, c2^4 - 14978\, a\, c2^2 + 112786\, b\, c2^2 + 2808\, c1^3$
$+ 22518\, c1\, c2^2 + 9410\, a\, b - 29200\, a\, c1 + 29200\, b\, c1 - 9410\, c1^2 - 24455\, c2^2$
$+ 702\, a - 28498\, b + 8006\, c1 + 702\rangle, \langle d2, c - 1, c2 + h, d1 - c1, b^2 - c1^2 - c2^2, a^2$
$- c1^2 - c2^2 + 2\, c1 - 1, -a\, c1^2 - a\, c2^2 + b\, c1^2 + b\, c2^2 - 15\, a\, b + 14\, a\, c1 + 12\, b\, c1$
$- 12\, c1^2 - 12\, c2^2 - a - 12\, b + 12\, c1 + 1, 13\, a\, b\, c2^2 + 14\, c1^2\, c2^2 + 14\, c2^4 - a\, c2^2$
$+ b\, c2^2 - 14\, c1\, c2^2 - a\, b - a\, c1 - b\, c1 - c1^2 + c2^2 + b + c1, 13\, a\, b\, c1 - 27\, a\, c1^2$
$- 27\, a\, c2^2 + 14\, c1^3 + 14\, c1\, c2^2 - 209\, a\, b + 195\, a\, c1 + 183\, b\, c1 - 183\, c1^2 - 169\, c2^2$
$- 13\, a - 169\, b + 170\, c1 + 13, 351\, a\, c1^3 + 351\, a\, c1\, c2^2 - 351\, c1^4 - 702\, c1^2\, c2^2$
$- 351\, c2^4 + 378\, a\, c1^2 + 2926\, a\, c2^2 + 2366\, b\, c2^2 - 27\, c1^3 - 27\, c1\, c2^2 + 560\, a\, b$
$- 169\, a\, c1 - 547\, b\, c1 + 560\, c1^2 + 2366\, c2^2 + 169\, b - 560\, c1, 351\, c1^2\, c2^2\, a$
$+ 351\, c2^4\, a - 2548\, a\, c1\, c2^2 - 2366\, b\, c1\, c2^2 - 729\, c1^2\, c2^2 - 729\, c2^4 - 53\, a\, c1^2$
$+ 338\, a\, c2^2 + 2001\, b\, c2^2 + c1^3 + 743\, c1\, c2^2 - 195\, a\, b + 586\, a\, c1 + 561\, b\, c1$
$- 117\, c1^2 - 703\, c2^2 - 26\, a - 534\, b + 117\, c1 + 26, 9477\, c1^4\, c2^2 + 18954\, c1^2\, c2^4$
$+ 9477\, c2^6 - 18954\, c1^3\, c2^2 - 18954\, c1\, c2^4 - 127764\, a\, c1\, c2^2 - 127764\, b\, c1\, c2^2$
$- 1404\, c1^4 - 13041\, c1^2\, c2^2 - 80433\, c2^4 + 14978\, a\, c2^2 + 112786\, b\, c2^2 + 2808\, c1^3$

$+ 22518\, c1\, c2^2 - 9410\, a\, b + 29200\, a\, c1 + 29200\, b\, c1 - 9410\, c1^2 - 24455\, c2^2$
$- 702\, a - 28498\, b + 8006\, c1 + 702\rangle, \langle d2, c - 1, c2 + h, d1 - c1, b^2 - c1^2 - c2^2, a^2$
$- c1^2 - c2^2 + 2\, c1 - 1, -a\, c1^2 - a\, c2^2 + b\, c1^2 + b\, c2^2 + 15\, a\, b + 14\, a\, c1 + 12\, b\, c1$
$+ 12\, c1^2 + 12\, c2^2 - a - 12\, b - 12\, c1 - 1, 13\, a\, b\, c2^2 + 14\, c1^2\, c2^2 + 14\, c2^4 + a\, c2^2$
$- b\, c2^2 - 14\, c1\, c2^2 - a\, b + a\, c1 + b\, c1 - c1^2 + c2^2 - b + c1, 13\, a\, b\, c1 + 27\, a\, c1^2$
$+ 27\, a\, c2^2 + 14\, c1^3 + 14\, c1\, c2^2 - 209\, a\, b - 195\, a\, c1 - 183\, b\, c1 - 183\, c1^2 - 169\, c2^2$
$+ 13\, a + 169\, b + 170\, c1 + 13, 351\, a\, c1^3 + 351\, a\, c1\, c2^2 + 351\, c1^4 + 702\, c1^2\, c2^2$
$+ 351\, c2^4 + 378\, a\, c1^2 + 2926\, a\, c2^2 + 2366\, b\, c2^2 + 27\, c1^3 + 27\, c1\, c2^2 - 560\, a\, b$
$- 169\, a\, c1 - 547\, b\, c1 - 560\, c1^2 - 2366\, c2^2 + 169\, b + 560\, c1, 351\, c1^2\, c2^2\, a$
$+ 351\, c2^4\, a - 2548\, a\, c1\, c2^2 - 2366\, b\, c1\, c2^2 + 729\, c1^2\, c2^2 + 729\, c2^4 - 53\, a\, c1^2$
$+ 338\, a\, c2^2 + 2001\, b\, c2^2 - c1^3 - 743\, c1\, c2^2 + 195\, a\, b + 586\, a\, c1 + 561\, b\, c1$
$+ 117\, c1^2 + 703\, c2^2 - 26\, a - 534\, b - 117\, c1 - 26, 9477\, c1^4\, c2^2 + 18954\, c1^2\, c2^4$
$+ 9477\, c2^6 - 18954\, c1^3\, c2^2 - 18954\, c1\, c2^4 + 127764\, a\, c1\, c2^2 + 127764\, b\, c1\, c2^2$
$- 1404\, c1^4 - 13041\, c1^2\, c2^2 - 80433\, c2^4 - 14978\, a\, c2^2 - 112786\, b\, c2^2 + 2808\, c1^3$
$+ 22518\, c1\, c2^2 - 9410\, a\, b - 29200\, a\, c1 - 29200\, b\, c1 - 9410\, c1^2 - 24455\, c2^2$
$+ 702\, a + 28498\, b + 8006\, c1 + 702\rangle, \langle d2, c - 1, c2 + h, d1 - c1, b^2 - c1^2 - c2^2, a^2$
$- c1^2 - c2^2 + 2\, c1 - 1, a\, c1^2 + a\, c2^2 + b\, c1^2 + b\, c2^2 - 15\, a\, b - 14\, a\, c1 + 12\, b\, c1$
$+ 12\, c1^2 + 12\, c2^2 + a - 12\, b - 12\, c1 - 1, 13\, a\, b\, c2^2 - 14\, c1^2\, c2^2 - 14\, c2^4 + a\, c2^2$
$+ b\, c2^2 + 14\, c1\, c2^2 - a\, b + a\, c1 - b\, c1 + c1^2 - c2^2 + b - c1, 13\, a\, b\, c1 + 27\, a\, c1^2$
$+ 27\, a\, c2^2 - 14\, c1^3 - 14\, c1\, c2^2 - 209\, a\, b - 195\, a\, c1 + 183\, b\, c1 + 183\, c1^2 + 169\, c2^2$
$+ 13\, a - 169\, b - 170\, c1 - 13, 351\, a\, c1^3 + 351\, a\, c1\, c2^2 - 351\, c1^4 - 702\, c1^2\, c2^2$
$- 351\, c2^4 + 378\, a\, c1^2 + 2926\, a\, c2^2 - 2366\, b\, c2^2 - 27\, c1^3 - 27\, c1\, c2^2 - 560\, a\, b$
$- 169\, a\, c1 + 547\, b\, c1 + 560\, c1^2 + 2366\, c2^2 - 169\, b - 560\, c1, 351\, c1^2\, c2^2\, a$
$+ 351\, c2^4\, a - 2548\, a\, c1\, c2^2 + 2366\, b\, c1\, c2^2 - 729\, c1^2\, c2^2 - 729\, c2^4 - 53\, a\, c1^2$
$+ 338\, a\, c2^2 - 2001\, b\, c2^2 + c1^3 + 743\, c1\, c2^2 + 195\, a\, b + 586\, a\, c1 - 561\, b\, c1$
$- 117\, c1^2 - 703\, c2^2 - 26\, a + 534\, b + 117\, c1 + 26, 9477\, c1^4\, c2^2 + 18954\, c1^2\, c2^4$
$+ 9477\, c2^6 - 18954\, c1^3\, c2^2 - 18954\, c1\, c2^4 - 127764\, a\, c1\, c2^2 + 127764\, b\, c1\, c2^2$
$- 1404\, c1^4 - 13041\, c1^2\, c2^2 - 80433\, c2^4 + 14978\, a\, c2^2 - 112786\, b\, c2^2 + 2808\, c1^3$
$+ 22518\, c1\, c2^2 + 9410\, a\, b + 29200\, a\, c1 - 29200\, b\, c1 - 9410\, c1^2 - 24455\, c2^2$
$- 702\, a + 28498\, b + 8006\, c1 + 702\rangle, \langle d2, c - 1, c2 + h, d1 - c1, b^2 - c1^2 - c2^2, a^2$
$- c1^2 - c2^2 + 2\, c1 - 1, a\, c1^2 + a\, c2^2 + b\, c1^2 + b\, c2^2 + 15\, a\, b - 14\, a\, c1 + 12\, b\, c1$
$- 12\, c1^2 - 12\, c2^2 + a - 12\, b + 12\, c1 + 1, 13\, a\, b\, c2^2 - 14\, c1^2\, c2^2 - 14\, c2^4 - a\, c2^2$
$- b\, c2^2 + 14\, c1\, c2^2 - a\, b - a\, c1 + b\, c1 + c1^2 - c2^2 - b - c1, 13\, a\, b\, c1 - 27\, a\, c1^2$
$- 27\, a\, c2^2 - 14\, c1^3 - 14\, c1\, c2^2 - 209\, a\, b + 195\, a\, c1 - 183\, b\, c1 + 183\, c1^2 + 169\, c2^2$

$-13\,a+169\,b-170\,c1-13,\ 351\,a\,c1^3+351\,a\,c1\,c2^2+351\,c1^4+702\,c1^2\,c2^2$
$+351\,c2^4+378\,a\,c1^2+2926\,a\,c2^2-2366\,b\,c2^2+27\,c1^3+27\,c1\,c2^2+560\,a\,b$
$-169\,a\,c1+547\,b\,c1-560\,c1^2-2366\,c2^2-169\,b+560\,c1,\ 351\,c1^2\,c2^2\,a$
$+351\,c2^4\,a-2548\,a\,c1\,c2^2+2366\,b\,c1\,c2^2+729\,c1^2\,c2^2+729\,c2^4-53\,a\,c1^2$
$+338\,a\,c2^2-2001\,b\,c2^2-c1^3-743\,c1\,c2^2-195\,a\,b+586\,a\,c1-561\,b\,c1$
$+117\,c1^2+703\,c2^2-26\,a+534\,b-117\,c1-26,\ 9477\,c1^4\,c2^2+18954\,c1^2\,c2^4$
$+9477\,c2^6-18954\,c1^3\,c2^2-18954\,c1\,c2^4+127764\,a\,c1\,c2^2-127764\,b\,c1\,c2^2$
$-1404\,c1^4-13041\,c1^2\,c2^2-80433\,c2^4-14978\,a\,c2^2+112786\,b\,c2^2+2808\,c1^3$
$+22518\,c1\,c2^2+9410\,a\,b-29200\,a\,c1+29200\,b\,c1-9410\,c1^2-24455\,c2^2$
$+702\,a-28498\,b+8006\,c1+702\rangle,\ \langle d2,\ c+1,\ -c2+h,\ d1-c1,\ b^2-c1^2-c2^2,$
$a^2-c1^2-c2^2+2\,c1-1,\ -a\,c1^2-a\,c2^2+b\,c1^2+b\,c2^2-15\,a\,b+14\,a\,c1$
$+12\,b\,c1-12\,c1^2-12\,c2^2-a-12\,b+12\,c1+1,\ 13\,a\,b\,c2^2+14\,c1^2\,c2^2+14\,c2^4$
$-a\,c2^2+b\,c2^2-14\,c1\,c2^2-a\,b-a\,c1-b\,c1-c1^2+c2^2+b+c1,\ 13\,a\,b\,c1$
$-27\,a\,c1^2-27\,a\,c2^2+14\,c1^3+14\,c1\,c2^2-209\,a\,b+195\,a\,c1+183\,b\,c1$
$-183\,c1^2-169\,c2^2-13\,a-169\,b+170\,c1+13,\ 351\,a\,c1^3+351\,a\,c1\,c2^2$
$-351\,c1^4-702\,c1^2\,c2^2-351\,c2^4+378\,a\,c1^2+2926\,a\,c2^2+2366\,b\,c2^2-27\,c1^3$
$-27\,c1\,c2^2+560\,a\,b-169\,a\,c1-547\,b\,c1+560\,c1^2+2366\,c2^2+169\,b$
$-560\,c1,\ 351\,c1^2\,c2^2\,a+351\,c2^4\,a-2548\,a\,c1\,c2^2-2366\,b\,c1\,c2^2-729\,c1^2\,c2^2$
$-729\,c2^4-53\,a\,c1^2+338\,a\,c2^2+2001\,b\,c2^2+c1^3+743\,c1\,c2^2-195\,a\,b$
$+586\,a\,c1+561\,b\,c1-117\,c1^2-703\,c2^2-26\,a-534\,b+117\,c1+26,$
$9477\,c1^4\,c2^2+18954\,c1^2\,c2^4+9477\,c2^6-18954\,c1^3\,c2^2-18954\,c1\,c2^4$
$-127764\,a\,c1\,c2^2-127764\,b\,c1\,c2^2-1404\,c1^4-13041\,c1^2\,c2^2-80433\,c2^4$
$+14978\,a\,c2^2+112786\,b\,c2^2+2808\,c1^3+22518\,c1\,c2^2-9410\,a\,b+29200\,a\,c1$
$+29200\,b\,c1-9410\,c1^2-24455\,c2^2-702\,a-28498\,b+8006\,c1+702\rangle,\ \langle d2,\ c$
$+1,\ -c2+h,\ d1-c1,\ b^2-c1^2-c2^2,\ a^2-c1^2-c2^2+2\,c1-1,\ -a\,c1^2-a\,c2^2$
$+b\,c1^2+b\,c2^2+15\,a\,b+14\,a\,c1+12\,b\,c1+12\,c1^2+12\,c2^2-a-12\,b-12\,c1$
$-1,\ 13\,a\,b\,c2^2+14\,c1^2\,c2^2+14\,c2^4+a\,c2^2-b\,c2^2-14\,c1\,c2^2-a\,b+a\,c1+b\,c1$
$-c1^2+c2^2-b+c1,\ 13\,a\,b\,c1+27\,a\,c1^2+27\,a\,c2^2+14\,c1^3+14\,c1\,c2^2-209\,a\,b$
$-195\,a\,c1-183\,b\,c1-183\,c1^2-169\,c2^2+13\,a+169\,b+170\,c1+13,\ 351\,a\,c1^3$
$+351\,a\,c1\,c2^2+351\,c1^4+702\,c1^2\,c2^2+351\,c2^4+378\,a\,c1^2+2926\,a\,c2^2$
$+2366\,b\,c2^2+27\,c1^3+27\,c1\,c2^2-560\,a\,b-169\,a\,c1-547\,b\,c1-560\,c1^2$
$-2366\,c2^2+169\,b+560\,c1,\ 351\,c1^2\,c2^2\,a+351\,c2^4\,a-2548\,a\,c1\,c2^2$
$-2366\,b\,c1\,c2^2+729\,c1^2\,c2^2+729\,c2^4-53\,a\,c1^2+338\,a\,c2^2+2001\,b\,c2^2-c1^3$
$-743\,c1\,c2^2+195\,a\,b+586\,a\,c1+561\,b\,c1+117\,c1^2+703\,c2^2-26\,a-534\,b$

$- 117\, c1 - 26, 9477\, c1^4\, c2^2 + 18954\, c1^2\, c2^4 + 9477\, c2^6 - 18954\, c1^3\, c2^2$
$- 18954\, c1\, c2^4 + 127764\, a\, c1\, c2^2 + 127764\, b\, c1\, c2^2 - 1404\, c1^4 - 13041\, c1^2\, c2^2$
$- 80433\, c2^4 - 14978\, a\, c2^2 - 112786\, b\, c2^2 + 2808\, c1^3 + 22518\, c1\, c2^2 - 9410\, a\, b$
$- 29200\, a\, c1 - 29200\, b\, c1 - 9410\, c1^2 - 24455\, c2^2 + 702\, a + 28498\, b + 8006\, c1$
$+ 702\rangle, \langle d2, c + 1, -c2 + h, d1 - c1, b^2 - c1^2 - c2^2, a^2 - c1^2 - c2^2 + 2\, c1 - 1,$
$a\, c1^2 + a\, c2^2 + b\, c1^2 + b\, c2^2 - 15\, a\, b - 14\, a\, c1 + 12\, b\, c1 + 12\, c1^2 + 12\, c2^2 + a$
$- 12\, b - 12\, c1 - 1, 13\, a\, b\, c2^2 - 14\, c1^2\, c2^2 - 14\, c2^4 + a\, c2^2 + b\, c2^2 + 14\, c1\, c2^2$
$- a\, b + a\, c1 - b\, c1 + c1^2 - c2^2 + b - c1, 13\, a\, b\, c1 + 27\, a\, c1^2 + 27\, a\, c2^2 - 14\, c1^3$
$- 14\, c1\, c2^2 - 209\, a\, b - 195\, a\, c1 + 183\, b\, c1 + 183\, c1^2 + 169\, c2^2 + 13\, a - 169\, b$
$- 170\, c1 - 13, 351\, a\, c1^3 + 351\, a\, c1\, c2^2 - 351\, c1^4 - 702\, c1^2\, c2^2 - 351\, c2^4$
$+ 378\, a\, c1^2 + 2926\, a\, c2^2 - 2366\, b\, c2^2 - 27\, c1^3 - 27\, c1\, c2^2 - 560\, a\, b - 169\, a\, c1$
$+ 547\, b\, c1 + 560\, c1^2 + 2366\, c2^2 - 169\, b - 560\, c1, 351\, c1^2\, c2^2\, a + 351\, c2^4\, a$
$- 2548\, a\, c1\, c2^2 + 2366\, b\, c1\, c2^2 - 729\, c1^2\, c2^2 - 729\, c2^4 - 53\, a\, c1^2 + 338\, a\, c2^2$
$- 2001\, b\, c2^2 + c1^3 + 743\, c1\, c2^2 + 195\, a\, b + 586\, a\, c1 - 561\, b\, c1 - 117\, c1^2$
$- 703\, c2^2 - 26\, a + 534\, b + 117\, c1 + 26, 9477\, c1^4\, c2^2 + 18954\, c1^2\, c2^4 + 9477\, c2^6$
$- 18954\, c1^3\, c2^2 - 18954\, c1\, c2^4 - 127764\, a\, c1\, c2^2 + 127764\, b\, c1\, c2^2 - 1404\, c1^4$
$- 13041\, c1^2\, c2^2 - 80433\, c2^4 + 14978\, a\, c2^2 - 112786\, b\, c2^2 + 2808\, c1^3$
$+ 22518\, c1\, c2^2 + 9410\, a\, b + 29200\, a\, c1 - 29200\, b\, c1 - 9410\, c1^2 - 24455\, c2^2$
$- 702\, a + 28498\, b + 8006\, c1 + 702\rangle, \langle d2, c + 1, -c2 + h, d1 - c1, b^2 - c1^2 - c2^2,$
$a^2 - c1^2 - c2^2 + 2\, c1 - 1, a\, c1^2 + a\, c2^2 + b\, c1^2 + b\, c2^2 + 15\, a\, b - 14\, a\, c1 + 12\, b\, c1$
$- 12\, c1^2 - 12\, c2^2 + a - 12\, b + 12\, c1 + 1, 13\, a\, b\, c2^2 - 14\, c1^2\, c2^2 - 14\, c2^4 - a\, c2^2$
$- b\, c2^2 + 14\, c1\, c2^2 - a\, b - a\, c1 + b\, c1 + c1^2 - c2^2 - b - c1, 13\, a\, b\, c1 - 27\, a\, c1^2$
$- 27\, a\, c2^2 - 14\, c1^3 - 14\, c1\, c2^2 - 209\, a\, b + 195\, a\, c1 - 183\, b\, c1 + 183\, c1^2 + 169\, c2^2$
$- 13\, a + 169\, b - 170\, c1 - 13, 351\, a\, c1^3 + 351\, a\, c1\, c2^2 + 351\, c1^4 + 702\, c1^2\, c2^2$
$+ 351\, c2^4 + 378\, a\, c1^2 + 2926\, a\, c2^2 - 2366\, b\, c2^2 + 27\, c1^3 + 27\, c1\, c2^2 + 560\, a\, b$
$- 169\, a\, c1 + 547\, b\, c1 - 560\, c1^2 - 2366\, c2^2 - 169\, b + 560\, c1, 351\, c1^2\, c2^2\, a$
$+ 351\, c2^4\, a - 2548\, a\, c1\, c2^2 + 2366\, b\, c1\, c2^2 + 729\, c1^2\, c2^2 + 729\, c2^4 - 53\, a\, c1^2$
$+ 338\, a\, c2^2 - 2001\, b\, c2^2 - c1^3 - 743\, c1\, c2^2 - 195\, a\, b + 586\, a\, c1 - 561\, b\, c1$
$+ 117\, c1^2 + 703\, c2^2 - 26\, a + 534\, b - 117\, c1 - 26, 9477\, c1^4\, c2^2 + 18954\, c1^2\, c2^4$
$+ 9477\, c2^6 - 18954\, c1^3\, c2^2 - 18954\, c1\, c2^4 + 127764\, a\, c1\, c2^2 - 127764\, b\, c1\, c2^2$
$- 1404\, c1^4 - 13041\, c1^2\, c2^2 - 80433\, c2^4 - 14978\, a\, c2^2 + 112786\, b\, c2^2 + 2808\, c1^3$
$+ 22518\, c1\, c2^2 + 9410\, a\, b - 29200\, a\, c1 + 29200\, b\, c1 - 9410\, c1^2 - 24455\, c2^2$
$+ 702\, a - 28498\, b + 8006\, c1 + 702\rangle, \langle d2, c + 1, c2 + h, d1 - c1, b^2 - c1^2 - c2^2, a^2$
$- c1^2 - c2^2 + 2\, c1 - 1, -a\, c1^2 - a\, c2^2 + b\, c1^2 + b\, c2^2 - 15\, a\, b + 14\, a\, c1 + 12\, b\, c1$

$$- 12\, c1^2 - 12\, c2^2 - a - 12\, b + 12\, c1 + 1,\ 13\, a\, b\, c2^2 + 14\, c1^2\, c2^2 + 14\, c2^4 - a\, c2^2$$
$$+ b\, c2^2 - 14\, c1\, c2^2 - a\, b - a\, c1 - b\, c1 - c1^2 + c2^2 + b + c1,\ 13\, a\, b\, c1 - 27\, a\, c1^2$$
$$- 27\, a\, c2^2 + 14\, c1^3 + 14\, c1\, c2^2 - 209\, a\, b + 195\, a\, c1 + 183\, b\, c1 - 183\, c1^2 - 169\, c2^2$$
$$- 13\, a - 169\, b + 170\, c1 + 13,\ 351\, a\, c1^3 + 351\, a\, c1\, c2^2 - 351\, c1^4 - 702\, c1^2\, c2^2$$
$$- 351\, c2^4 + 378\, a\, c1^2 + 2926\, a\, c2^2 + 2366\, b\, c2^2 - 27\, c1^3 - 27\, c1\, c2^2 + 560\, a\, b$$
$$- 169\, a\, c1 - 547\, b\, c1 + 560\, c1^2 + 2366\, c2^2 + 169\, b - 560\, c1,\ 351\, c1^2\, c2^2\, a$$
$$+ 351\, c2^4\, a - 2548\, a\, c1\, c2^2 - 2366\, b\, c1\, c2^2 - 729\, c1^2\, c2^2 - 729\, c2^4 - 53\, a\, c1^2$$
$$+ 338\, a\, c2^2 + 2001\, b\, c2^2 + c1^3 + 743\, c1\, c2^2 - 195\, a\, b + 586\, a\, c1 + 561\, b\, c1$$
$$- 117\, c1^2 - 703\, c2^2 - 26\, a - 534\, b + 117\, c1 + 26,\ 9477\, c1^4\, c2^2 + 18954\, c1^2\, c2^4$$
$$+ 9477\, c2^6 - 18954\, c1^3\, c2^2 - 18954\, c1\, c2^4 - 127764\, a\, c1\, c2^2 - 127764\, b\, c1\, c2^2$$
$$- 1404\, c1^4 - 13041\, c1^2\, c2^2 - 80433\, c2^4 + 14978\, a\, c2^2 + 112786\, b\, c2^2 + 2808\, c1^3$$
$$+ 22518\, c1\, c2^2 - 9410\, a\, b + 29200\, a\, c1 + 29200\, b\, c1 - 9410\, c1^2 - 24455\, c2^2$$
$$- 702\, a - 28498\, b + 8006\, c1 + 702\rangle,\ \langle d2,\ c + 1,\ c2 + h,\ d1 - c1,\ b^2 - c1^2 - c2^2,\ a^2$$
$$- c1^2 - c2^2 + 2\, c1 - 1,\ -a\, c1^2 - a\, c2^2 + b\, c1^2 + b\, c2^2 + 15\, a\, b + 14\, a\, c1 + 12\, b\, c1$$
$$+ 12\, c1^2 + 12\, c2^2 - a - 12\, b - 12\, c1 - 1,\ 13\, a\, b\, c2^2 + 14\, c1^2\, c2^2 + 14\, c2^4 + a\, c2^2$$
$$- b\, c2^2 - 14\, c1\, c2^2 - a\, b + a\, c1 + b\, c1 - c1^2 + c2^2 - b + c1,\ 13\, a\, b\, c1 + 27\, a\, c1^2$$
$$+ 27\, a\, c2^2 + 14\, c1^3 + 14\, c1\, c2^2 - 209\, a\, b - 195\, a\, c1 - 183\, b\, c1 - 183\, c1^2 - 169\, c2^2$$
$$+ 13\, a + 169\, b + 170\, c1 + 13,\ 351\, a\, c1^3 + 351\, a\, c1\, c2^2 + 351\, c1^4 + 702\, c1^2\, c2^2$$
$$+ 351\, c2^4 + 378\, a\, c1^2 + 2926\, a\, c2^2 + 2366\, b\, c2^2 + 27\, c1^3 + 27\, c1\, c2^2 - 560\, a\, b$$
$$- 169\, a\, c1 - 547\, b\, c1 - 560\, c1^2 - 2366\, c2^2 + 169\, b + 560\, c1,\ 351\, c1^2\, c2^2\, a$$
$$+ 351\, c2^4\, a - 2548\, a\, c1\, c2^2 - 2366\, b\, c1\, c2^2 + 729\, c1^2\, c2^2 + 729\, c2^4 - 53\, a\, c1^2$$
$$+ 338\, a\, c2^2 + 2001\, b\, c2^2 - c1^3 - 743\, c1\, c2^2 + 195\, a\, b + 586\, a\, c1 + 561\, b\, c1$$
$$+ 117\, c1^2 + 703\, c2^2 - 26\, a - 534\, b - 117\, c1 - 26,\ 9477\, c1^4\, c2^2 + 18954\, c1^2\, c2^4$$
$$+ 9477\, c2^6 - 18954\, c1^3\, c2^2 - 18954\, c1\, c2^4 + 127764\, a\, c1\, c2^2 + 127764\, b\, c1\, c2^2$$
$$- 1404\, c1^4 - 13041\, c1^2\, c2^2 - 80433\, c2^4 - 14978\, a\, c2^2 - 112786\, b\, c2^2 + 2808\, c1^3$$
$$+ 22518\, c1\, c2^2 - 9410\, a\, b - 29200\, a\, c1 - 29200\, b\, c1 - 9410\, c1^2 - 24455\, c2^2$$
$$+ 702\, a + 28498\, b + 8006\, c1 + 702\rangle,\ \langle d2,\ c + 1,\ c2 + h,\ d1 - c1,\ b^2 - c1^2 - c2^2,\ a^2$$
$$- c1^2 - c2^2 + 2\, c1 - 1,\ a\, c1^2 + a\, c2^2 + b\, c1^2 + b\, c2^2 - 15\, a\, b - 14\, a\, c1 + 12\, b\, c1$$
$$+ 12\, c1^2 + 12\, c2^2 + a - 12\, b - 12\, c1 - 1,\ 13\, a\, b\, c2^2 - 14\, c1^2\, c2^2 - 14\, c2^4 + a\, c2^2$$
$$+ b\, c2^2 + 14\, c1\, c2^2 - a\, b + a\, c1 - b\, c1 + c1^2 - c2^2 + b - c1,\ 13\, a\, b\, c1 + 27\, a\, c1^2$$
$$+ 27\, a\, c2^2 - 14\, c1^3 - 14\, c1\, c2^2 - 209\, a\, b - 195\, a\, c1 + 183\, b\, c1 + 183\, c1^2 + 169\, c2^2$$
$$+ 13\, a - 169\, b - 170\, c1 - 13,\ 351\, a\, c1^3 + 351\, a\, c1\, c2^2 - 351\, c1^4 - 702\, c1^2\, c2^2$$
$$- 351\, c2^4 + 378\, a\, c1^2 + 2926\, a\, c2^2 - 2366\, b\, c2^2 - 27\, c1^3 - 27\, c1\, c2^2 - 560\, a\, b$$
$$- 169\, a\, c1 + 547\, b\, c1 + 560\, c1^2 + 2366\, c2^2 - 169\, b - 560\, c1,\ 351\, c1^2\, c2^2\, a$$

$$+ 351\, c2^4\, a - 2548\, a\, c1\, c2^2 + 2366\, b\, c1\, c2^2 - 729\, c1^2\, c2^2 - 729\, c2^4 - 53\, a\, c1^2$$
$$+ 338\, a\, c2^2 - 2001\, b\, c2^2 + c1^3 + 743\, c1\, c2^2 + 195\, a\, b + 586\, a\, c1 - 561\, b\, c1$$
$$- 117\, c1^2 - 703\, c2^2 - 26\, a + 534\, b + 117\, c1 + 26, 9477\, c1^4\, c2^2 + 18954\, c1^2\, c2^4$$
$$+ 9477\, c2^6 - 18954\, c1^3\, c2^2 - 18954\, c1\, c2^4 - 127764\, a\, c1\, c2^2 + 127764\, b\, c1\, c2^2$$
$$- 1404\, c1^4 - 13041\, c1^2\, c2^2 - 80433\, c2^4 + 14978\, a\, c2^2 - 112786\, b\, c2^2 + 2808\, c1^3$$
$$+ 22518\, c1\, c2^2 + 9410\, a\, b + 29200\, a\, c1 - 29200\, b\, c1 - 9410\, c1^2 - 24455\, c2^2$$
$$- 702\, a + 28498\, b + 8006\, c1 + 702\rangle, \langle d2, c + 1, c2 + h, d1 - c1, b^2 - c1^2 - c2^2, a^2$$
$$- c1^2 - c2^2 + 2\, c1 - 1, a\, c1^2 + a\, c2^2 + b\, c1^2 + b\, c2^2 + 15\, a\, b - 14\, a\, c1 + 12\, b\, c1$$
$$- 12\, c1^2 - 12\, c2^2 + a - 12\, b + 12\, c1 + 1, 13\, a\, b\, c2^2 - 14\, c1^2\, c2^2 - 14\, c2^4 - a\, c2^2$$
$$- b\, c2^2 + 14\, c1\, c2^2 - a\, b - a\, c1 + b\, c1 + c1^2 - c2^2 - b - c1, 13\, a\, b\, c1 - 27\, a\, c1^2$$
$$- 27\, a\, c2^2 - 14\, c1^3 - 14\, c1\, c2^2 - 209\, a\, b + 195\, a\, c1 - 183\, b\, c1 + 183\, c1^2 + 169\, c2^2$$
$$- 13\, a + 169\, b - 170\, c1 - 13, 351\, a\, c1^3 + 351\, a\, c1\, c2^2 + 351\, c1^4 + 702\, c1^2\, c2^2$$
$$+ 351\, c2^4 + 378\, a\, c1^2 + 2926\, a\, c2^2 - 2366\, b\, c2^2 + 27\, c1^3 + 27\, c1\, c2^2 + 560\, a\, b$$
$$- 169\, a\, c1 + 547\, b\, c1 - 560\, c1^2 - 2366\, c2^2 - 169\, b + 560\, c1, 351\, c1^2\, c2^2\, a$$
$$+ 351\, c2^4\, a - 2548\, a\, c1\, c2^2 + 2366\, b\, c1\, c2^2 + 729\, c1^2\, c2^2 + 729\, c2^4 - 53\, a\, c1^2$$
$$+ 338\, a\, c2^2 - 2001\, b\, c2^2 - c1^3 - 743\, c1\, c2^2 - 195\, a\, b + 586\, a\, c1 - 561\, b\, c1$$
$$+ 117\, c1^2 + 703\, c2^2 - 26\, a + 534\, b - 117\, c1 - 26, 9477\, c1^4\, c2^2 + 18954\, c1^2\, c2^4$$
$$+ 9477\, c2^6 - 18954\, c1^3\, c2^2 - 18954\, c1\, c2^4 + 127764\, a\, c1\, c2^2 - 127764\, b\, c1\, c2^2$$
$$- 1404\, c1^4 - 13041\, c1^2\, c2^2 - 80433\, c2^4 - 14978\, a\, c2^2 + 112786\, b\, c2^2 + 2808\, c1^3$$
$$+ 22518\, c1\, c2^2 + 9410\, a\, b - 29200\, a\, c1 + 29200\, b\, c1 - 9410\, c1^2 - 24455\, c2^2$$
$$+ 702\, a - 28498\, b + 8006\, c1 + 702\rangle$$

We see that all components are non-degenerate

```
> for i from 1 to 16 do  EliminationIdeal(MM[i],{c1}) od;
```

$$\langle 0\rangle$$
$$\langle 0\rangle$$
$$\langle 0\rangle$$
$$\langle 0\rangle$$
$$\langle 0\rangle$$
$$\langle 0\rangle$$
$$\langle 0\rangle$$
$$\langle 0\rangle$$
$$\langle 0\rangle$$

$$\langle 0 \rangle$$
$$\langle 0 \rangle$$
$$\langle 0 \rangle$$
$$\langle 0 \rangle$$
$$\langle 0 \rangle$$
$$\langle 0 \rangle$$
$$\langle 0 \rangle \tag{1.37}$$

and the equality holds only on the 4th, 8th, 11th and the 15th components

```
> for i from 1 to 16 do 3*(a+b+c)^4-18^2*c^2*h^2 in MM[i] od;
```

false
false
false
true
false
false
false
true
false
false
true
false
false
false
true
false **(1.38)**

In conclusion: this approach does not yield a clear way to interpret the locus of triangles that verify the equality, from the real point of view.

Of course, in this particular case, the use of Real Quantifier Elimination algorithms solves the locus problem quite quickly

```
> restart:with(RegularChains):with(SemiAlgebraicSetTools):
```

```
> tt:=&E[a, b,t,h], (a^2-y^2-(1-x)^2=0) &and (b^2-x^2-y^2=0) &and
  (y<>0)  &and(t^2=3) &and(h^2=y^2) &and((a+b+1)^2 = 6*t*1*h) &and
  (0 <a) &and (0 <b)&and (0 <t) &and (0 <h):
```

```
> out:=QuantifierElimination(tt);
```

$$out := (\&and(4\,y^2 - 3 = 0, y < 0, 2\,x - 1 = 0))\ \&or\ (\&and(4\,y^2 - 3 = 0, 0 < y, 2\,x - 1 = 0)) \quad \textbf{(1.39)}$$

Section 4. The equality case: A coordinate-free approach

Now we consider elimination ideals with respect to the variables {a,b,c} that represent the sides of ABC.

$CG1 := EliminationIdeal(CD1, \{a, b, c\});\ CG2 := EliminationIdeal(CD2, \{a, b, c\}); CG3 := EliminationIdeal(CD3, \{a, b, c\}); CG4 := EliminationIdeal(CD4, \{a, b, c\});$

$$CG1 := \langle 7\,a^4 + a^3\,b + a^3\,c - 12\,a^2\,b^2 + 3\,a^2\,b\,c - 12\,a^2\,c^2 + a\,b^3 + 3\,a\,b^2\,c + 3\,a\,b\,c^2 + a\,c^3 + 7\,b^4 + b^3\,c - 12\,b^2\,c^2 + b\,c^3 + 7\,c^4\rangle$$

$$CG2 := \langle 7\,a^4 + a^3\,b + a^3\,c - 12\,a^2\,b^2 + 3\,a^2\,b\,c - 12\,a^2\,c^2 + a\,b^3 + 3\,a\,b^2\,c + 3\,a\,b\,c^2 + a\,c^3 + 7\,b^4 + b^3\,c - 12\,b^2\,c^2 + b\,c^3 + 7\,c^4\rangle$$

$$CG3 := \langle c, a^4, b - a\rangle$$

$$CG4 := \langle c, a + b\rangle \quad \textbf{(2.1)}$$

It is clear that CG1=CG2. We also have Radical(CG1)⊆Radical(CG4)⊆Radical(CG3), so that the relevant component here is CG1:

$IdealContainment(Radical(CG1), Radical(CG4), Radical(CG3));$

$$true \quad \textbf{(2.2)}$$

Let us set r(a,b,c) as the generator of CG1=CG2 and show it can be represented in different forms, including one which is related to the perimeter-area equality condition via Heron's formula for triangle areas.

$r := op(1, CG1); rr1 := factor(r); rr2 := (a + b + c)\cdot(-6\cdot(-a + b + c)\cdot(a - b + c)\cdot(a + b - c) + (a\text{^}3 + b\text{^}3 + c\text{^}3) + 3\cdot a\cdot b\cdot c);$

$$r := 7\,a^4 + a^3\,b + a^3\,c - 12\,a^2\,b^2 + 3\,a^2\,b\,c - 12\,a^2\,c^2 + a\,b^3 + 3\,a\,b^2\,c + 3\,a\,b\,c^2 + a\,c^3 + 7\,b^4 + b^3\,c - 12\,b^2\,c^2 + b\,c^3 + 7\,c^4$$

$$rr1 := (a + b + c)\,(7\,a^3 - 6\,a^2\,b - 6\,a^2\,c - 6\,a\,b^2 + 15\,a\,b\,c - 6\,a\,c^2 + 7\,b^3 - 6\,b^2\,c - 6\,b\,c^2 + 7\,c^3)$$

$$rr2 := (a+b+c)\left(-(6b-6a+6c)(-b+a+c)(a+b-c)+a^3+b^3+c^3+3abc\right) \quad \textbf{(2.3)}$$

$$rr3 := -108\,\mathrm{sqrt}\left(\frac{((a+b+c)\cdot(-a+b+c)\cdot(a-b+c)\cdot(a+b-c))}{16}\right)^2 + \frac{(a+b+c)^4}{4};$$

$$rr3 := -\frac{27(a+b+c)(b-a+c)(-b+a+c)(a+b-c)}{4} + \frac{(a+b+c)^4}{4} \quad \textbf{(2.4)}$$

$expand(rr2-r);\ expand(rr3-r);$ (all these forms are equivalent)

$$0$$

$$0 \quad \textbf{(2.5)}$$

We verify now which are the real triangles with non-negative sides satisfying r1:=
$7a^3-6a^2b-6a^2c-6ab^2+15abc-6ac^2+7b^3-6b^2c-6bc^2+7c^3=0$

$$r1 := 7a^3-6a^2b-6a^2c-6ab^2+15abc-6ac^2+7b^3-6b^2c-6bc^2+7c^3;$$

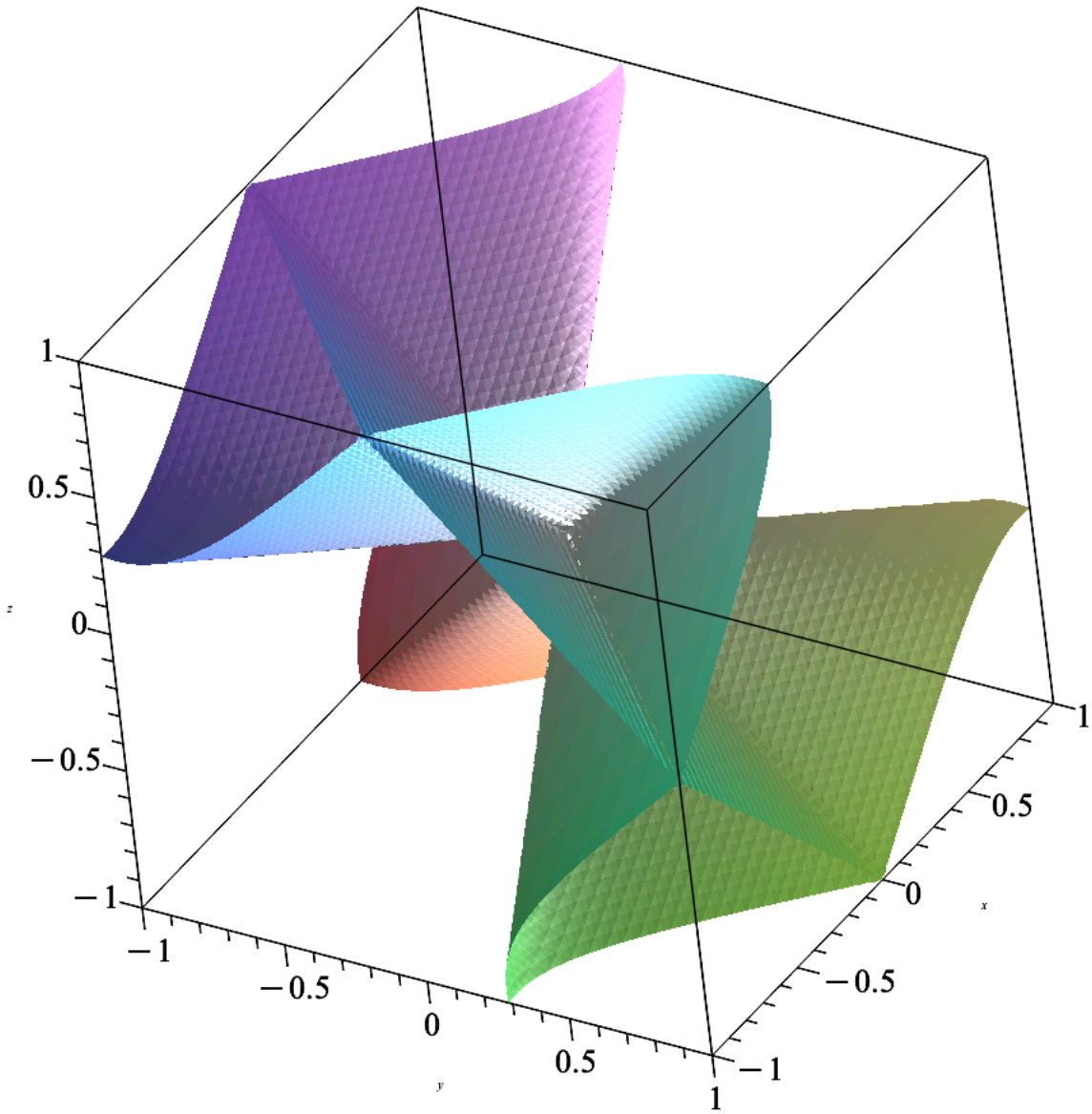
$$r1 := 7a^3-6a^2b-6a^2c-6ab^2+15abc-6ac^2+7b^3-6b^2c-6bc^2+7c^3 \quad \textbf{(2.6)}$$

$solve([r1=0, a\geq 0, b\geq 0, c\geq 0], [a,b,c]);$

$$[[b=a, c=a, 0\leq a]] \quad \textbf{(2.7)}$$

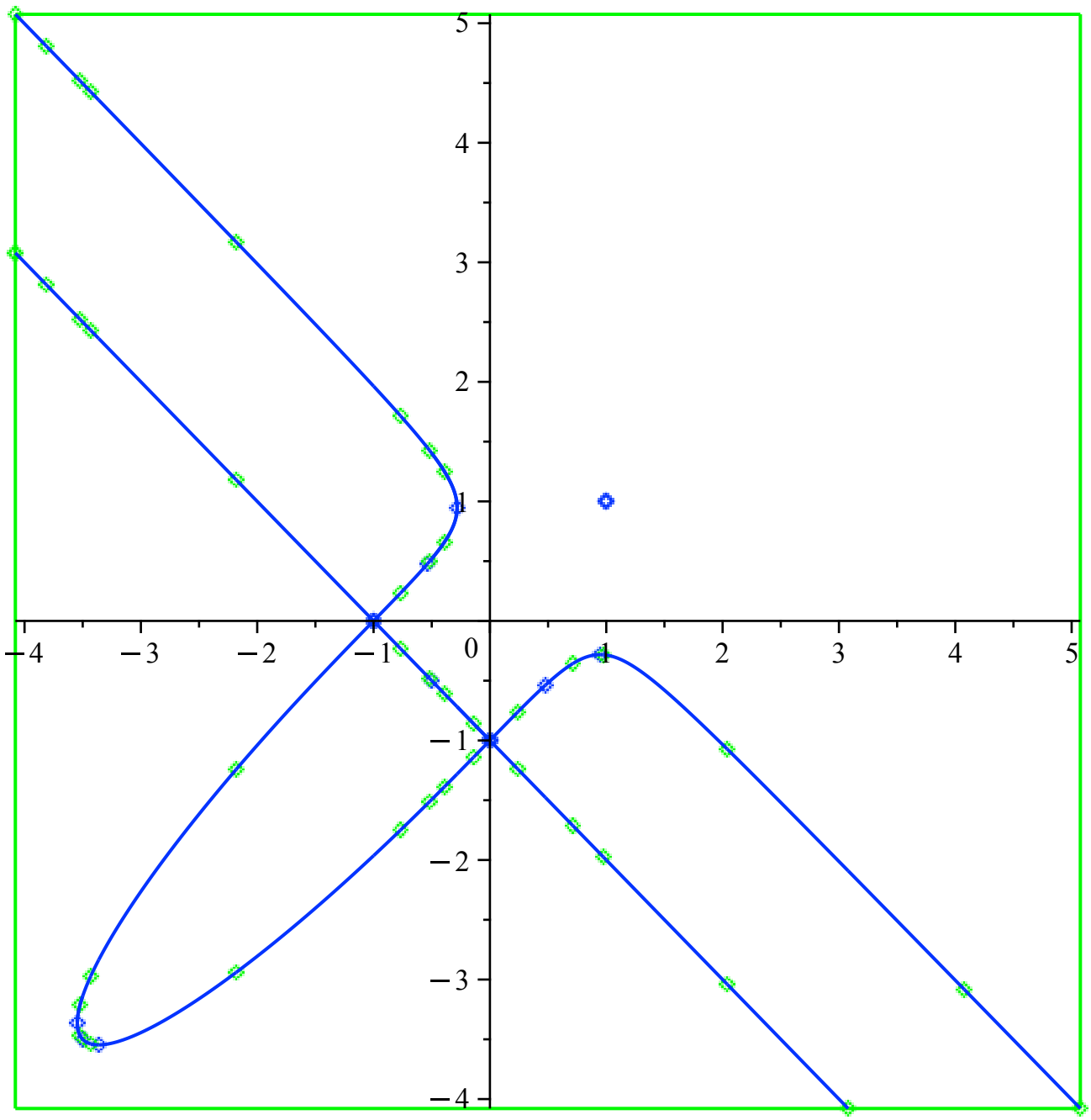
Therefore, only equilateral triangles are admissible. If we admit arbitrary real numbers, the equation r(a, b,c)=0 determines a surface which is displayed below, which contains the line a=b=c that is not displayed by the software. The case c=1 (which takes place when A=(0,0), B=(1,0)) is displayed also below.

$with(plots): implicitplot3d((x+y+z)\cdot(-6\cdot(-x+y+z)\cdot(x-y+z)\cdot(x+y-z)+(x\text{^}3+y\text{^}3+z\text{^}3)+3\cdot x\cdot y\cdot z)=0, x=-1..1, y=-1..1, z=-1..1, style=surface, numpoints=216000);$



$rc := subs(c = 1, r); plot_real_curve(rc, a, b);$

$$rc := 7\,a^4 + b\,a^3 - 12\,b^2\,a^2 + b^3\,a + 7\,b^4 + a^3 + 3\,b\,a^2 + 3\,b^2\,a + b^3 - 12\,a^2 + 3\,b\,a - 12\,b^2 + a + b + 7$$



To better understand the connection with the geometric locus that GGD provided, we investigate the connection between r(a,b,c) and g(a1,a2,b1,b2,c1,c2).

$sa := \text{sqrt}((c1 - b1)\text{^}2 + (c2 - b2)\text{^}2); sb := \text{sqrt}((c1 - a1)\text{^}2 + (c2 - a2)\text{^}2); sc := \text{sqrt}((a1 - b1)\text{^}2 + (a2 - b2)\text{^}2);$

$$sa := \sqrt{(c1 - b1)^2 + (c2 - b2)^2}$$

$$sb := \sqrt{(c1 - a1)^2 + (c2 - a2)^2}$$

$$sc := \sqrt{(a1 - b1)^2 + (a2 - b2)^2} \quad \textbf{(2.8)}$$

$r1 := subs([a = x, b = y, c = z], r); r2 := subs([a = -x, b = y, c = z], r); r3 := subs([a = x, b =$

$-y, c=z], r); r4 := subs([a=x, b=y, c=-z], r);$

$$r1 := 7x^4 + x^3 y + x^3 z - 12x^2 y^2 + 3x^2 yz - 12x^2 z^2 + xy^3 + 3xy^2 z + 3xyz^2 + xz^3 + 7y^4 + y^3 z - 12y^2 z^2 + yz^3 + 7z^4$$

$$r2 := 7x^4 - x^3 y - x^3 z - 12x^2 y^2 + 3x^2 yz - 12x^2 z^2 - xy^3 - 3xy^2 z - 3xyz^2 - xz^3 + 7y^4 + y^3 z - 12y^2 z^2 + yz^3 + 7z^4$$

$$r3 := 7x^4 - x^3 y + x^3 z - 12x^2 y^2 - 3x^2 yz - 12x^2 z^2 - xy^3 + 3xy^2 z - 3xyz^2 + xz^3 + 7y^4 - y^3 z - 12y^2 z^2 - yz^3 + 7z^4$$

$$r4 := 7x^4 + x^3 y - x^3 z - 12x^2 y^2 - 3x^2 yz - 12x^2 z^2 + xy^3 - 3xy^2 z + 3xyz^2 - xz^3 + 7y^4 - y^3 z - 12y^2 z^2 - yz^3 + 7z^4 \quad \textbf{(2.9)}$$

Now we check identity (14), *16g(a1,a2,b1,b2,c1,c2)=r(sa,sb,sc) r(-sa, sb, sc) r(sa,-sb,sc) r(sa,sb,-sc)* (we omit some of the outputs):

$rs := expand(r1 * r2 * r3 * r4) : rg := expand(subs([x=sa, y=sb, z=sc], rs)) : rg - 16 \cdot g;$

$$0 \quad \textbf{(2.10)}$$

Let us recall (see the reference Kovács, Z., Recio, T., Sólyom-Gecse, C. Rewriting input expressions in complex algebraic geometry provers. Ann Math Artif Intell. 2019, 85, 73--87. https://doi.org/10.1007/s10472-018-9590-1) that another option to compute rs is to consider r, add the equations aa-a^2, bb-b^2, cc-c^2, eliminate the ideal <r, aa-a^2, bb-b^2, cc-c^2> over the {aa,bb,cc} variables

```
> EliminationIdeal(<7*a^4 + a^3*b + a^3*c - 12*a^2*b^2 + 3*a^2*b*c
  - 12*a^2*c^2 + a*b^3 + 3*a*b^2*c + 3*a*b*c^2 + a*c^3+7*b^4 + b^3*
  c - 12*b^2*c^2 + b*c^3 + 7*c^4, aa-a^2, bb-b^2, cc-c^2>,{aa,bb,
  cc});
```

$$\langle 2401\, aa^8 - 16562\, aa^7 bb - 16562\, aa^7 cc + 52081\, aa^6 bb^2 + 66988\, aa^6 bb\, cc + 52081\, aa^6 cc^2 - 97682\, aa^5 bb^3 - 104508\, aa^5 bb^2 cc - 104508\, aa^5 bb\, cc^2 - 97682\, aa^5 cc^3 + 119524\, aa^4 bb^4 + 54082\, aa^4 bb^3 cc + 80253\, aa^4 bb^2 cc^2 + 54082\, aa^4 bb\, cc^3 + 119524\, aa^4 cc^4 - 97682\, aa^3 bb^5 + 54082\, aa^3 bb^4 cc - 43988\, aa^3 bb^3 cc^2 - 43988\, aa^3 bb^2 cc^3 + 54082\, aa^3 bb\, cc^4 - 97682\, aa^3 cc^5 + 52081\, aa^2 bb^6 - 104508\, aa^2 bb^5 cc + 80253\, aa^2 bb^4 cc^2 - 43988\, aa^2 bb^3 cc^3 + 80253\, aa^2 bb^2 cc^4 - 104508\, aa^2 bb\, cc^5 + 52081\, aa^2 cc^6 - 16562\, aa\, bb^7 + 66988\, aa\, bb^6 cc - 104508\, aa\, bb^5 cc^2 + 54082\, aa\, bb^4 cc^3 + 54082\, aa\, bb^3 cc^4 - 104508\, aa\, bb^2 cc^5 + 66988\, aa\, bb\, cc^6 - 16562\, aa\, cc^7 + 2401\, bb^8 - 16562\, bb^7 cc + 52081\, bb^6 cc^2 - 97682\, bb^5 cc^3 + 119524\, bb^4 cc^4 - 97682\, bb^3 cc^5 + 52081\, bb^2 cc^6 - 16562\, bb\, cc^7 + 2401\, cc^8 \rangle \quad \textbf{(2.11)}$$

and then substitute aa=a^2, bb=b2, cc=c^2

```
>
> subs(aa=a^2, bb=b^2, cc=c^2, 2401*aa^8 - 16562*aa^7*bb - 16562*
```

```
aa^7*cc + 52081*aa^6*bb^2 + 66988*aa^6*bb*cc + 52081*aa^6*cc^2 -
97682*aa^5*bb^3 - 104508*aa^5*bb^2*cc - 104508*aa^5*bb*cc^2 -
97682*aa^5*cc^3 + 119524*aa^4*bb^4 + 54082*aa^4*bb^3*cc + 80253*
aa^4*bb^2*cc^2 + 54082*aa^4*bb*cc^3 + 119524*aa^4*cc^4 - 97682*
aa^3*bb^5 + 54082*aa^3*bb^4*cc - 43988*aa^3*bb^3*cc^2 - 43988*
aa^3*bb^2*cc^3 + 54082*aa^3*bb*cc^4 - 97682*aa^3*cc^5 + 52081*
aa^2*bb^6 - 104508*aa^2*bb^5*cc + 80253*aa^2*bb^4*cc^2 - 43988*
aa^2*bb^3*cc^3 + 80253*aa^2*bb^2*cc^4 - 104508*aa^2*bb*cc^5 +
52081*aa^2*cc^6 - 16562*aa*bb^7 + 66988*aa*bb^6*cc - 104508*aa*
bb^5*cc^2 + 54082*aa*bb^4*cc^3 + 54082*aa*bb^3*cc^4 - 104508*aa*
bb^2*cc^5 + 66988*aa*bb*cc^6 - 16562*aa*cc^7 + 2401*bb^8 - 16562*
bb^7*cc + 52081*bb^6*cc^2 - 97682*bb^5*cc^3 + 119524*bb^4*cc^4 -
97682*bb^3*cc^5 + 52081*bb^2*cc^6 - 16562*bb*cc^7 + 2401*cc^8);
```

$$2401\,a^{16} - 16562\,a^{14}\,b^2 - 16562\,a^{14}\,c^2 + 52081\,a^{12}\,b^4 + 66988\,a^{12}\,b^2\,c^2 + 52081\,a^{12}\,c^4 - 97682\,a^{10}\,b^6 - 104508\,a^{10}\,b^4\,c^2 - 104508\,a^{10}\,b^2\,c^4 - 97682\,a^{10}\,c^6 + 119524\,a^8\,b^8 + 54082\,a^8\,b^6\,c^2 + 80253\,a^8\,b^4\,c^4 + 54082\,a^8\,b^2\,c^6 + 119524\,a^8\,c^8 - 97682\,a^6\,b^{10} + 54082\,a^6\,b^8\,c^2 - 43988\,a^6\,b^6\,c^4 - 43988\,a^6\,b^4\,c^6 + 54082\,a^6\,b^2\,c^8 - 97682\,a^6\,c^{10} + 52081\,a^4\,b^{12} - 104508\,a^4\,b^{10}\,c^2 + 80253\,a^4\,b^8\,c^4 - 43988\,a^4\,b^6\,c^6 + 80253\,a^4\,b^4\,c^8 - 104508\,a^4\,b^2\,c^{10} + 52081\,a^4\,c^{12} - 16562\,a^2\,b^{14} + 66988\,a^2\,b^{12}\,c^2 - 104508\,a^2\,b^{10}\,c^4 + 54082\,a^2\,b^8\,c^6 + 54082\,a^2\,b^6\,c^8 - 104508\,a^2\,b^4\,c^{10} + 66988\,a^2\,b^2\,c^{12} - 16562\,a^2\,c^{14} + 2401\,b^{16} - 16562\,b^{14}\,c^2 + 52081\,b^{12}\,c^4 - 97682\,b^{10}\,c^6 + 119524\,b^8\,c^8 - 97682\,b^6\,c^{10} + 52081\,b^4\,c^{12} - 16562\,b^2\,c^{14} + 2401\,c^{16} \tag{2.12}$$

That agrees with rs

```
> factor(%);
```

$$(a-b+c)\,(a+b+c)\,(a-b-c)\,(a+b-c)\,(7\,a^3 - 6\,a^2\,b + 6\,a^2\,c - 6\,a\,b^2 - 15\,a\,b\,c - 6\,a\,c^2 + 7\,b^3 + 6\,b^2\,c - 6\,b\,c^2 - 7\,c^3)\,(7\,a^3 + 6\,a^2\,b - 6\,a^2\,c - 6\,a\,b^2 - 15\,a\,b\,c - 6\,a\,c^2 - 7\,b^3 - 6\,b^2\,c + 6\,b\,c^2 + 7\,c^3)\,(7\,a^3 + 6\,a^2\,b + 6\,a^2\,c - 6\,a\,b^2 + 15\,a\,b\,c - 6\,a\,c^2 - 7\,b^3 + 6\,b^2\,c + 6\,b\,c^2 - 7\,c^3)\,(7\,a^3 - 6\,a^2\,b - 6\,a^2\,c - 6\,a\,b^2 + 15\,a\,b\,c - 6\,a\,c^2 + 7\,b^3 - 6\,b^2\,c - 6\,b\,c^2 + 7\,c^3) \tag{2.13}$$

Moreover, another way to check that *16g(a1,a2,b1,b2,c1,c2)=r(sa,sb,sc) r(-sa, sb, sc) r(sa,-sb,sc) r (sa,sb,-sc)* is to substitute aa=(c1-b1)^2+(c2-b2)^2, bb=(c1-a1)^2+(c2-a2)^2, cc=(b1-a1)^2+(b2-a2)^2 in (2.11), and dividing the output by 16 we get g(a1,a2, b1,b2,c1,c2).

Now we represent the sets arising from the curves ri(sa, sb, sc)=0, i=1,2,3,4, especializing to the case A=(0,0), B=(1,0).

```
sa1 := sqrt((c1 - 1)^2 + c2^2); sb1 := sqrt(c1^2 + c2^2); sc1 := 1;
```

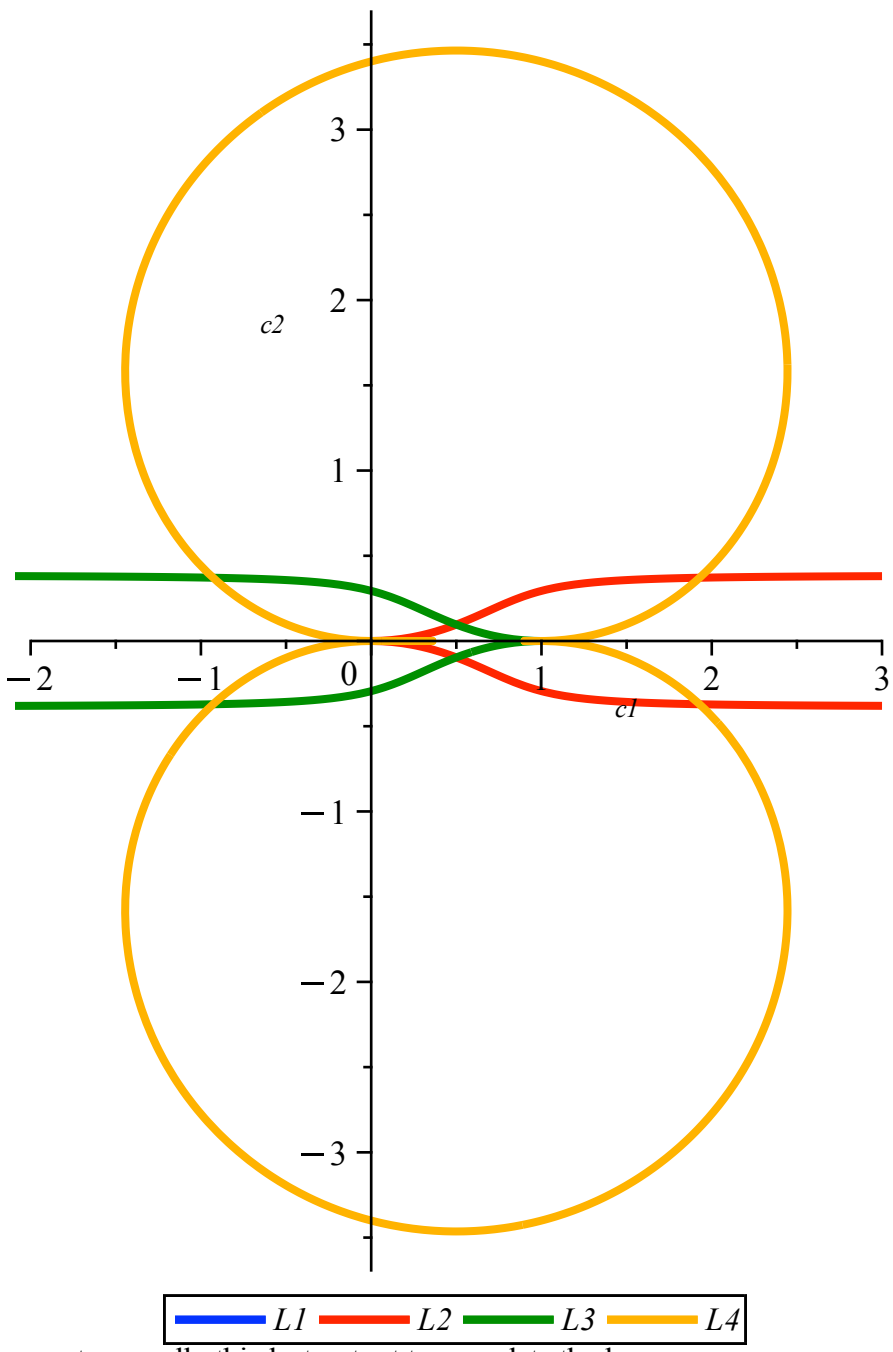
$$sa1 := \sqrt{(c1-1)^2 + c2^2}$$

$$sb1 := \sqrt{c1^2 + c2^2}$$

$$sc1 := 1 \tag{2.14}$$

$rs1 := subs([x = sa1, y = sb1, z = sc1], r1) : rs2 := subs([x = sa1, y = sb1, z = sc1], r2) : rs3 := subs([x = sa1, y = sb1, z = sc1], r3) : rs4 := subs([x = sa1, y = sb1, z = sc1], r4) :$

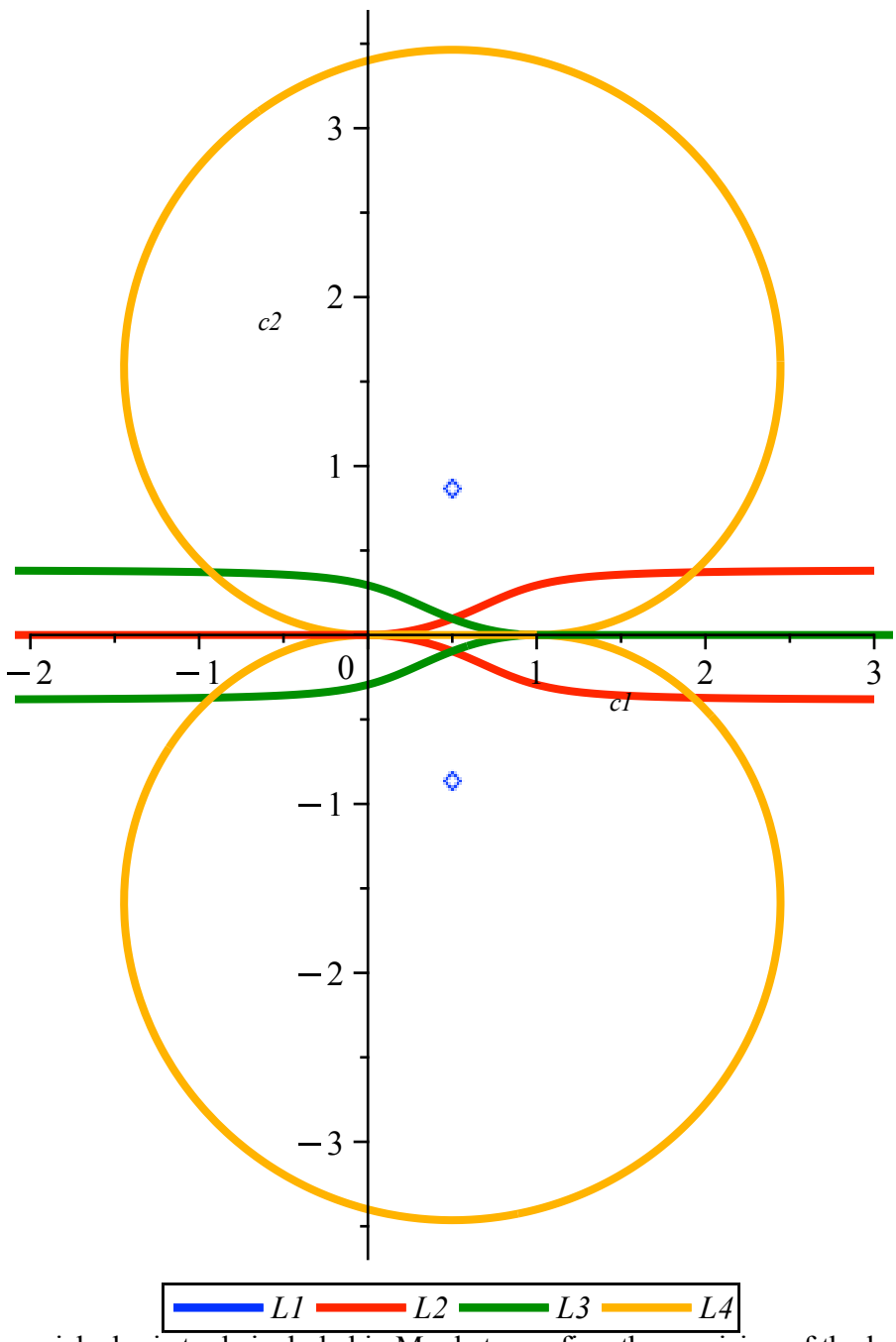
$plot1 := implicitplot([rs1 = 0, rs2 = 0, rs3 = 0, rs4 = 0], c1 = -3..3, c2 = -4..4, color = [\text{"Blue"}, \text{"Red"}, \text{"Green"}, \text{"Orange"}], legend = [L1, L2, L3, L4], thickness = 3, view = [-2..3, -3.7..3.7]);$



We proceed to correct manually this last output to complete the locus:

$with(plots) : plot2 := plot([t, 0, t = -4..0], -2..3, -3.7..3.7, color = \text{"Red"}, thickness = 3) :$

$plot3 := plot([t, 0, t = 1..4], -2..3, -3.7..3.7, color = \text{"Green"}, thickness = 3) : plot4 := plot([t, 0, t = 0..1], -2..3, -3.7..3.7, color = \text{"Orange"}, thickness = 3) : plot5 := pointplot\left(\left[\left[\frac{1}{2}, \frac{\mathrm{sqrt}(3)}{2}\right], \left[\frac{1}{2}, -\frac{\sqrt{3}}{2}\right]\right], color = \text{"Blue"}\right) : plots\text{:-}display([plot1, plot2, plot3, plot4, plot5]);$



We can use the semialgebraic tools included in Maple to confirm the precision of the locus we just plotted, by computing the cylindrical algebraic decomposition determined by the polynomial g.

$restart : with(RegularChains) : with(ChainTools) : with(SemiAlgebraicSetTools) : with(SolveTools) :$

$R := PolynomialRing([c1, c2]); F := [729\, c1^8\, c2^4 + 2916\, c1^6\, c2^6 + 4374\, c1^4\, c2^8 + 2916\, c1^2\, c2^{10}$

$$+ 729\, c2^{12} - 2916\, c1^7\, c2^4 - 8748\, c1^5\, c2^6 - 8748\, c1^3\, c2^8 - 2916\, c1\, c2^{10} - 108\, c1^8\, c2^2 + 4050\, c1^6\, c2^4 - 702\, c1^4\, c2^6 - 13986\, c1^2\, c2^8 - 9126\, c2^{10} + 432\, c1^7\, c2^2 - 1944\, c1^5\, c2^4 + 15984\, c1^3\, c2^6 + 18360\, c1\, c2^8 - 648\, c1^6\, c2^2 + 1107\, c1^4\, c2^4 - 27810\, c1^2\, c2^6 + 8851\, c2^8 + 432\, c1^5\, c2^2 - 2376\, c1^3\, c2^4 + 18360\, c1\, c2^6 - 108\, c1^4\, c2^2 + 4266\, c1^2\, c2^4 - 9126\, c2^6 - 2916\, c1\, c2^4 + 729\, c2^4];$$

$$R := polynomial_ring$$

$$F := [729\, c1^8\, c2^4 + 2916\, c1^6\, c2^6 + 4374\, c1^4\, c2^8 + 2916\, c1^2\, c2^{10} + 729\, c2^{12} - 2916\, c1^7\, c2^4 - 8748\, c1^5\, c2^6 - 8748\, c1^3\, c2^8 - 2916\, c1\, c2^{10} - 108\, c1^8\, c2^2 + 4050\, c1^6\, c2^4 - 702\, c1^4\, c2^6 - 13986\, c1^2\, c2^8 - 9126\, c2^{10} + 432\, c1^7\, c2^2 - 1944\, c1^5\, c2^4 + 15984\, c1^3\, c2^6 + 18360\, c1\, c2^8 - 648\, c1^6\, c2^2 + 1107\, c1^4\, c2^4 - 27810\, c1^2\, c2^6 + 8851\, c2^8 + 432\, c1^5\, c2^2 - 2376\, c1^3\, c2^4 + 18360\, c1\, c2^6 - 108\, c1^4\, c2^2 + 4266\, c1^2\, c2^4 - 9126\, c2^6 - 2916\, c1\, c2^4 + 729\, c2^4] \quad \textbf{(2.15)}$$

$$cad := CylindricalAlgebraicDecompose(F, R, method = recursive, output = 'rootof');$$

$$cad := \left[[c2 < -2\sqrt{3}, c1 = c1], \left[c2 = -2\sqrt{3}, c1 < \frac{1}{2}\right], \left[c2 = -2\sqrt{3}, c1 = \frac{1}{2}\right], \left[c2 = -2\sqrt{3}, \frac{1}{2} < c1\right], \left[-2\sqrt{3} < c2 \wedge c2 < -\frac{\sqrt{3}}{2}, c1 < RootOf\big((729\, c2^2 - 108)_Z^8 + (-2916\, c2^2 + 432)_Z^7 + (2916\, c2^4 + 4050\, c2^2 - 648)_Z^6 + (-8748\, c2^4 - 1944\, c2^2 + 432)_Z^5 + (4374\, c2^6 - 702\, c2^4 + 1107\, c2^2 - 108)_Z^4 + (-8748\, c2^6 + 15984\, c2^4 - 2376\, c2^2)_Z^3 + (2916\, c2^8 - 13986\, c2^6 - 27810\, c2^4 + 4266\, c2^2)_Z^2 + (-2916\, c2^8 + 18360\, c2^6 + 18360\, c2^4 - 2916\, c2^2)_Z + 729\, c2^{10} - 9126\, c2^8 + 8851\, c2^6 - 9126\, c2^4 + 729\, c2^2, index = real_1\big)\right], \left[-2\sqrt{3} < c2 \wedge c2 < -\frac{\sqrt{3}}{2}, c1 = RootOf\big((729\, c2^2 - 108)_Z^8 + (-2916\, c2^2 + 432)_Z^7 + (2916\, c2^4 + 4050\, c2^2 - 648)_Z^6 + (-8748\, c2^4 - 1944\, c2^2 + 432)_Z^5 + (4374\, c2^6 - 702\, c2^4 + 1107\, c2^2 - 108)_Z^4 + (-8748\, c2^6 + 15984\, c2^4 - 2376\, c2^2)_Z^3 + (2916\, c2^8 - 13986\, c2^6 - 27810\, c2^4 + 4266\, c2^2)_Z^2 + (-2916\, c2^8 + 18360\, c2^6 + 18360\, c2^4 \quad \textbf{(2.16)}$$

$$- 2916\, c2^2)\ _Z + 729\, c2^{10} - 9126\, c2^8 + 8851\, c2^6 - 9126\, c2^4 + 729\, c2^2, index$$

$$= real_1)], \left[-2\sqrt{3} < c2 \wedge c2 < -\frac{\sqrt{3}}{2}, RootOf((729\, c2^2 - 108)\ _Z^8 + (\right.$$

$$-2916\, c2^2 + 432)\ _Z^7 + (2916\, c2^4 + 4050\, c2^2 - 648)\ _Z^6 + (-8748\, c2^4 - 1944\, c2^2$$

$$+ 432)\ _Z^5 + (4374\, c2^6 - 702\, c2^4 + 1107\, c2^2 - 108)\ _Z^4 + (-8748\, c2^6$$

$$+ 15984\, c2^4 - 2376\, c2^2)\ _Z^3 + (2916\, c2^8 - 13986\, c2^6 - 27810\, c2^4 + 4266\, c2^2)\ _Z^2$$

$$+ (-2916\, c2^8 + 18360\, c2^6 + 18360\, c2^4 - 2916\, c2^2)\ _Z + 729\, c2^{10} - 9126\, c2^8$$

$$+ 8851\, c2^6 - 9126\, c2^4 + 729\, c2^2, index = real_1) < c1 \wedge c1 < RootOf((729\, c2^2$$

$$- 108)\ _Z^8 + (-2916\, c2^2 + 432)\ _Z^7 + (2916\, c2^4 + 4050\, c2^2 - 648)\ _Z^6 + ($$

$$-8748\, c2^4 - 1944\, c2^2 + 432)\ _Z^5 + (4374\, c2^6 - 702\, c2^4 + 1107\, c2^2 - 108)\ _Z^4 + ($$

$$-8748\, c2^6 + 15984\, c2^4 - 2376\, c2^2)\ _Z^3 + (2916\, c2^8 - 13986\, c2^6 - 27810\, c2^4$$

$$+ 4266\, c2^2)\ _Z^2 + (-2916\, c2^8 + 18360\, c2^6 + 18360\, c2^4 - 2916\, c2^2)\ _Z + 729\, c2^{10}$$

$$- 9126\, c2^8 + 8851\, c2^6 - 9126\, c2^4 + 729\, c2^2, index = real_2)], \left[-2\sqrt{3} < c2 \wedge c2 < \right.$$

$$-\frac{\sqrt{3}}{2}, c1 = RootOf((729\, c2^2 - 108)\ _Z^8 + (-2916\, c2^2 + 432)\ _Z^7 + (2916\, c2^4$$

$$+ 4050\, c2^2 - 648)\ _Z^6 + (-8748\, c2^4 - 1944\, c2^2 + 432)\ _Z^5 + (4374\, c2^6 - 702\, c2^4$$

$$+ 1107\, c2^2 - 108)\ _Z^4 + (-8748\, c2^6 + 15984\, c2^4 - 2376\, c2^2)\ _Z^3 + (2916\, c2^8$$

$$- 13986\, c2^6 - 27810\, c2^4 + 4266\, c2^2)\ _Z^2 + (-2916\, c2^8 + 18360\, c2^6 + 18360\, c2^4$$

$$- 2916\, c2^2)\ _Z + 729\, c2^{10} - 9126\, c2^8 + 8851\, c2^6 - 9126\, c2^4 + 729\, c2^2, index$$

$$= real_2)], \left[-2\sqrt{3} < c2 \wedge c2 < -\frac{\sqrt{3}}{2}, RootOf((729\, c2^2 - 108)\ _Z^8 + (\right.$$

$$-2916\,c2^2+432)\,_Z^7+(2916\,c2^4+4050\,c2^2-648)\,_Z^6+(-8748\,c2^4-1944\,c2^2$$

$$+432)\,_Z^5+(4374\,c2^6-702\,c2^4+1107\,c2^2-108)\,_Z^4+(-8748\,c2^6$$

$$+15984\,c2^4-2376\,c2^2)\,_Z^3+(2916\,c2^8-13986\,c2^6-27810\,c2^4+4266\,c2^2)\,_Z^2$$

$$+(-2916\,c2^8+18360\,c2^6+18360\,c2^4-2916\,c2^2)\,_Z+729\,c2^{10}-9126\,c2^8$$

$$+8851\,c2^6-9126\,c2^4+729\,c2^2,\ index=real_2)<c1\Big],\ \Big[c2=-\frac{\sqrt{3}}{2},\ c1<\frac{1}{2}$$

$$-\frac{4\sqrt{5}}{5}\Big],\ \Big[c2=-\frac{\sqrt{3}}{2},\ c1=\frac{1}{2}-\frac{4\sqrt{5}}{5}\Big],\ \Big[c2=-\frac{\sqrt{3}}{2},\ \frac{1}{2}-\frac{4\sqrt{5}}{5}<c1\wedge c1$$

$$<\frac{1}{2}\Big],\ \Big[c2=-\frac{\sqrt{3}}{2},\ c1=\frac{1}{2}\Big],\ \Big[c2=-\frac{\sqrt{3}}{2},\ \frac{1}{2}<c1\wedge c1<\frac{1}{2}+\frac{4\sqrt{5}}{5}\Big],\ \Big[c2$$

$$=-\frac{\sqrt{3}}{2},\ c1=\frac{1}{2}+\frac{4\sqrt{5}}{5}\Big],\ \Big[c2=-\frac{\sqrt{3}}{2},\ \frac{1}{2}+\frac{4\sqrt{5}}{5}<c1\Big],\ \Big[-\frac{\sqrt{3}}{2}<c2$$

$$\wedge\, c2<-\frac{2\sqrt{3}}{9},\ c1<RootOf\big((729\,c2^2-108)\,_Z^8+(-2916\,c2^2+432)\,_Z^7$$

$$+(2916\,c2^4+4050\,c2^2-648)\,_Z^6+(-8748\,c2^4-1944\,c2^2+432)\,_Z^5$$

$$+(4374\,c2^6-702\,c2^4+1107\,c2^2-108)\,_Z^4+(-8748\,c2^6+15984\,c2^4$$

$$-2376\,c2^2)\,_Z^3+(2916\,c2^8-13986\,c2^6-27810\,c2^4+4266\,c2^2)\,_Z^2+($$

$$-2916\,c2^8+18360\,c2^6+18360\,c2^4-2916\,c2^2)\,_Z+729\,c2^{10}-9126\,c2^8+8851\,c2^6$$

$$-9126\,c2^4+729\,c2^2,\ index=real_1)\Big],\ \Big[-\frac{\sqrt{3}}{2}<c2\wedge c2<-\frac{2\sqrt{3}}{9},\ c1$$

$$=RootOf\big((729\,c2^2-108)\,_Z^8+(-2916\,c2^2+432)\,_Z^7+(2916\,c2^4+4050\,c2^2$$

$$-648)\,_Z^6+(-8748\,c2^4-1944\,c2^2+432)\,_Z^5+(4374\,c2^6-702\,c2^4+1107\,c2^2$$

$$-108)\,_Z^4+(-8748\,c2^6+15984\,c2^4-2376\,c2^2)\,_Z^3+(2916\,c2^8-13986\,c2^6$$

$$-27810\,c2^4+4266\,c2^2)\,_Z^2+(-2916\,c2^8+18360\,c2^6+18360\,c2^4-2916\,c2^2)\,_Z$$

$$+ 729\, c2^{10} - 9126\, c2^{8} + 8851\, c2^{6} - 9126\, c2^{4} + 729\, c2^{2}, index = real_1 \big) \Big], \Big[-\frac{\sqrt{3}}{2}$$

$$< c2 \wedge c2 < -\frac{2\sqrt{3}}{9}, RootOf\big((729\, c2^{2} - 108)\, _Z^{8} + (-2916\, c2^{2} + 432)\, _Z^{7}$$

$$+ (2916\, c2^{4} + 4050\, c2^{2} - 648)\, _Z^{6} + (-8748\, c2^{4} - 1944\, c2^{2} + 432)\, _Z^{5}$$

$$+ (4374\, c2^{6} - 702\, c2^{4} + 1107\, c2^{2} - 108)\, _Z^{4} + (-8748\, c2^{6} + 15984\, c2^{4}$$

$$- 2376\, c2^{2})\, _Z^{3} + (2916\, c2^{8} - 13986\, c2^{6} - 27810\, c2^{4} + 4266\, c2^{2})\, _Z^{2} + ($$

$$-2916\, c2^{8} + 18360\, c2^{6} + 18360\, c2^{4} - 2916\, c2^{2})\, _Z + 729\, c2^{10} - 9126\, c2^{8} + 8851\, c2^{6}$$

$$- 9126\, c2^{4} + 729\, c2^{2}, index = real_1 \big) < c1 \wedge c1 < RootOf\big((729\, c2^{2} - 108)\, _Z^{8} + ($$

$$-2916\, c2^{2} + 432)\, _Z^{7} + (2916\, c2^{4} + 4050\, c2^{2} - 648)\, _Z^{6} + (-8748\, c2^{4} - 1944\, c2^{2}$$

$$+ 432)\, _Z^{5} + (4374\, c2^{6} - 702\, c2^{4} + 1107\, c2^{2} - 108)\, _Z^{4} + (-8748\, c2^{6}$$

$$+ 15984\, c2^{4} - 2376\, c2^{2})\, _Z^{3} + (2916\, c2^{8} - 13986\, c2^{6} - 27810\, c2^{4} + 4266\, c2^{2})\, _Z^{2}$$

$$+ (-2916\, c2^{8} + 18360\, c2^{6} + 18360\, c2^{4} - 2916\, c2^{2})\, _Z + 729\, c2^{10} - 9126\, c2^{8}$$

$$+ 8851\, c2^{6} - 9126\, c2^{4} + 729\, c2^{2}, index = real_2 \big) \Big], \Big[-\frac{\sqrt{3}}{2} < c2 \wedge c2 < -\frac{2\sqrt{3}}{9}, c1$$

$$= RootOf\big((729\, c2^{2} - 108)\, _Z^{8} + (-2916\, c2^{2} + 432)\, _Z^{7} + (2916\, c2^{4} + 4050\, c2^{2}$$

$$- 648)\, _Z^{6} + (-8748\, c2^{4} - 1944\, c2^{2} + 432)\, _Z^{5} + (4374\, c2^{6} - 702\, c2^{4} + 1107\, c2^{2}$$

$$- 108)\, _Z^{4} + (-8748\, c2^{6} + 15984\, c2^{4} - 2376\, c2^{2})\, _Z^{3} + (2916\, c2^{8} - 13986\, c2^{6}$$

$$- 27810\, c2^{4} + 4266\, c2^{2})\, _Z^{2} + (-2916\, c2^{8} + 18360\, c2^{6} + 18360\, c2^{4} - 2916\, c2^{2})\, _Z$$

$$+ 729\, c2^{10} - 9126\, c2^{8} + 8851\, c2^{6} - 9126\, c2^{4} + 729\, c2^{2}, index = real_2 \big) \Big], \Big[-\frac{\sqrt{3}}{2}$$

$$< c2 \wedge c2 < -\frac{2\sqrt{3}}{9}, RootOf\big((729\, c2^{2} - 108)\, _Z^{8} + (-2916\, c2^{2} + 432)\, _Z^{7}$$

$$+ \left(2916\, c2^4 + 4050\, c2^2 - 648\right) _Z^6 + \left(-8748\, c2^4 - 1944\, c2^2 + 432\right) _Z^5$$

$$+ \left(4374\, c2^6 - 702\, c2^4 + 1107\, c2^2 - 108\right) _Z^4 + \left(-8748\, c2^6 + 15984\, c2^4$$

$$- 2376\, c2^2\right) _Z^3 + \left(2916\, c2^8 - 13986\, c2^6 - 27810\, c2^4 + 4266\, c2^2\right) _Z^2 + \left($$

$$-2916\, c2^8 + 18360\, c2^6 + 18360\, c2^4 - 2916\, c2^2\right) _Z + 729\, c2^{10} - 9126\, c2^8 + 8851\, c2^6$$

$$- 9126\, c2^4 + 729\, c2^2, index = real_2\Big) < c1\Big], \Big[c2 = -\frac{2\sqrt{3}}{9}, c1 < \frac{1}{2} - \frac{5\sqrt{3}}{6}\Big], \Big[c2$$

$$= -\frac{2\sqrt{3}}{9}, c1 = \frac{1}{2} - \frac{5\sqrt{3}}{6}\Big], \Big[c2 = -\frac{2\sqrt{3}}{9}, \frac{1}{2} - \frac{5\sqrt{3}}{6} < c1 \wedge c1 < \frac{1}{2}$$

$$+ \frac{5\sqrt{3}}{6}\Big], \Big[c2 = -\frac{2\sqrt{3}}{9}, c1 = \frac{1}{2} + \frac{5\sqrt{3}}{6}\Big], \Big[c2 = -\frac{2\sqrt{3}}{9}, \frac{1}{2} + \frac{5\sqrt{3}}{6}$$

$$< c1\Big], \Big[-\frac{2\sqrt{3}}{9} < c2 \wedge c2 < -\frac{3\sqrt{3}}{14}, c1 < RootOf\Big(\left(729\, c2^2 - 108\right) _Z^8 + \left($$

$$-2916\, c2^2 + 432\right) _Z^7 + \left(2916\, c2^4 + 4050\, c2^2 - 648\right) _Z^6 + \left(-8748\, c2^4 - 1944\, c2^2$$

$$+ 432\right) _Z^5 + \left(4374\, c2^6 - 702\, c2^4 + 1107\, c2^2 - 108\right) _Z^4 + \left(-8748\, c2^6$$

$$+ 15984\, c2^4 - 2376\, c2^2\right) _Z^3 + \left(2916\, c2^8 - 13986\, c2^6 - 27810\, c2^4 + 4266\, c2^2\right) _Z^2$$

$$+ \left(-2916\, c2^8 + 18360\, c2^6 + 18360\, c2^4 - 2916\, c2^2\right) _Z + 729\, c2^{10} - 9126\, c2^8$$

$$+ 8851\, c2^6 - 9126\, c2^4 + 729\, c2^2, index = real_1\Big)\Big], \Big[-\frac{2\sqrt{3}}{9} < c2 \wedge c2 < -\frac{3\sqrt{3}}{14},$$

$$c1 = RootOf\Big(\left(729\, c2^2 - 108\right) _Z^8 + \left(-2916\, c2^2 + 432\right) _Z^7 + \left(2916\, c2^4 + 4050\, c2^2$$

$$- 648\right) _Z^6 + \left(-8748\, c2^4 - 1944\, c2^2 + 432\right) _Z^5 + \left(4374\, c2^6 - 702\, c2^4 + 1107\, c2^2$$

$$- 108\right) _Z^4 + \left(-8748\, c2^6 + 15984\, c2^4 - 2376\, c2^2\right) _Z^3 + \left(2916\, c2^8 - 13986\, c2^6$$

$$- 27810\, c2^4 + 4266\, c2^2\right) _Z^2 + \left(-2916\, c2^8 + 18360\, c2^6 + 18360\, c2^4 - 2916\, c2^2\right) _Z$$

$$+ 729\, c2^{10} - 9126\, c2^8 + 8851\, c2^6 - 9126\, c2^4 + 729\, c2^2, index = real_1\Big)\Big], \Big[-\frac{2\sqrt{3}}{9}$$

$$< c2 \wedge c2 < -\frac{3\sqrt{3}}{14}, RootOf\left(\left(729\,c2^2 - 108\right)_Z^8 + \left(-2916\,c2^2 + 432\right)_Z^7\right.$$

$$+ \left(2916\,c2^4 + 4050\,c2^2 - 648\right)_Z^6 + \left(-8748\,c2^4 - 1944\,c2^2 + 432\right)_Z^5$$

$$+ \left(4374\,c2^6 - 702\,c2^4 + 1107\,c2^2 - 108\right)_Z^4 + \left(-8748\,c2^6 + 15984\,c2^4\right.$$

$$\left.- 2376\,c2^2\right)_Z^3 + \left(2916\,c2^8 - 13986\,c2^6 - 27810\,c2^4 + 4266\,c2^2\right)_Z^2 + \left(\right.$$

$$\left.-2916\,c2^8 + 18360\,c2^6 + 18360\,c2^4 - 2916\,c2^2\right)_Z + 729\,c2^{10} - 9126\,c2^8 + 8851\,c2^6$$

$$\left.- 9126\,c2^4 + 729\,c2^2, index = real_1\right) < c1 \wedge c1 < RootOf\left(\left(729\,c2^2 - 108\right)_Z^8 + \left(\right.\right.$$

$$\left.-2916\,c2^2 + 432\right)_Z^7 + \left(2916\,c2^4 + 4050\,c2^2 - 648\right)_Z^6 + \left(-8748\,c2^4 - 1944\,c2^2\right.$$

$$\left.+ 432\right)_Z^5 + \left(4374\,c2^6 - 702\,c2^4 + 1107\,c2^2 - 108\right)_Z^4 + \left(-8748\,c2^6\right.$$

$$\left.+ 15984\,c2^4 - 2376\,c2^2\right)_Z^3 + \left(2916\,c2^8 - 13986\,c2^6 - 27810\,c2^4 + 4266\,c2^2\right)_Z^2$$

$$+ \left(-2916\,c2^8 + 18360\,c2^6 + 18360\,c2^4 - 2916\,c2^2\right)_Z + 729\,c2^{10} - 9126\,c2^8$$

$$\left.+ 8851\,c2^6 - 9126\,c2^4 + 729\,c2^2, index = real_2\right)\Big], \Big[-\frac{2\sqrt{3}}{9} < c2 \wedge c2 < -\frac{3\sqrt{3}}{14},$$

$$c1 = RootOf\left(\left(729\,c2^2 - 108\right)_Z^8 + \left(-2916\,c2^2 + 432\right)_Z^7 + \left(2916\,c2^4 + 4050\,c2^2\right.\right.$$

$$\left.- 648\right)_Z^6 + \left(-8748\,c2^4 - 1944\,c2^2 + 432\right)_Z^5 + \left(4374\,c2^6 - 702\,c2^4 + 1107\,c2^2\right.$$

$$\left.- 108\right)_Z^4 + \left(-8748\,c2^6 + 15984\,c2^4 - 2376\,c2^2\right)_Z^3 + \left(2916\,c2^8 - 13986\,c2^6\right.$$

$$\left.- 27810\,c2^4 + 4266\,c2^2\right)_Z^2 + \left(-2916\,c2^8 + 18360\,c2^6 + 18360\,c2^4 - 2916\,c2^2\right)_Z$$

$$\left.+ 729\,c2^{10} - 9126\,c2^8 + 8851\,c2^6 - 9126\,c2^4 + 729\,c2^2, index = real_2\right)\Big], \Big[-\frac{2\sqrt{3}}{9}$$

$$< c2 \wedge c2 < -\frac{3\sqrt{3}}{14}, RootOf\left(\left(729\,c2^2 - 108\right)_Z^8 + \left(-2916\,c2^2 + 432\right)_Z^7\right.$$

$$+ \left(2916\,c2^4 + 4050\,c2^2 - 648\right)_Z^6 + \left(-8748\,c2^4 - 1944\,c2^2 + 432\right)_Z^5$$

$$+ \left(4374\, c2^6 - 702\, c2^4 + 1107\, c2^2 - 108\right) _Z^4 + \left(-8748\, c2^6 + 15984\, c2^4 - 2376\, c2^2\right) _Z^3 + \left(2916\, c2^8 - 13986\, c2^6 - 27810\, c2^4 + 4266\, c2^2\right) _Z^2 + \left(-2916\, c2^8 + 18360\, c2^6 + 18360\, c2^4 - 2916\, c2^2\right) _Z + 729\, c2^{10} - 9126\, c2^8 + 8851\, c2^6 - 9126\, c2^4 + 729\, c2^2, index = real_2\Big) < c1 \wedge c1 < RootOf\Big(\left(729\, c2^2 - 108\right) _Z^8 + \left(-2916\, c2^2 + 432\right) _Z^7 + \left(2916\, c2^4 + 4050\, c2^2 - 648\right) _Z^6 + \left(-8748\, c2^4 - 1944\, c2^2 + 432\right) _Z^5 + \left(4374\, c2^6 - 702\, c2^4 + 1107\, c2^2 - 108\right) _Z^4 + \left(-8748\, c2^6 + 15984\, c2^4 - 2376\, c2^2\right) _Z^3 + \left(2916\, c2^8 - 13986\, c2^6 - 27810\, c2^4 + 4266\, c2^2\right) _Z^2 + \left(-2916\, c2^8 + 18360\, c2^6 + 18360\, c2^4 - 2916\, c2^2\right) _Z + 729\, c2^{10} - 9126\, c2^8 + 8851\, c2^6 - 9126\, c2^4 + 729\, c2^2, index = real_3\Big)\Big], \Big[-\frac{2\sqrt{3}}{9} < c2 \wedge c2 < -\frac{3\sqrt{3}}{14},$$

$$c1 = RootOf\Big(\left(729\, c2^2 - 108\right) _Z^8 + \left(-2916\, c2^2 + 432\right) _Z^7 + \left(2916\, c2^4 + 4050\, c2^2 - 648\right) _Z^6 + \left(-8748\, c2^4 - 1944\, c2^2 + 432\right) _Z^5 + \left(4374\, c2^6 - 702\, c2^4 + 1107\, c2^2 - 108\right) _Z^4 + \left(-8748\, c2^6 + 15984\, c2^4 - 2376\, c2^2\right) _Z^3 + \left(2916\, c2^8 - 13986\, c2^6 - 27810\, c2^4 + 4266\, c2^2\right) _Z^2 + \left(-2916\, c2^8 + 18360\, c2^6 + 18360\, c2^4 - 2916\, c2^2\right) _Z + 729\, c2^{10} - 9126\, c2^8 + 8851\, c2^6 - 9126\, c2^4 + 729\, c2^2, index = real_3\Big)\Big], \Big[-\frac{2\sqrt{3}}{9} < c2 \wedge c2 < -\frac{3\sqrt{3}}{14}, RootOf\Big(\left(729\, c2^2 - 108\right) _Z^8 + \left(-2916\, c2^2 + 432\right) _Z^7 + \left(2916\, c2^4 + 4050\, c2^2 - 648\right) _Z^6 + \left(-8748\, c2^4 - 1944\, c2^2 + 432\right) _Z^5 + \left(4374\, c2^6 - 702\, c2^4 + 1107\, c2^2 - 108\right) _Z^4 + \left(-8748\, c2^6 + 15984\, c2^4 - 2376\, c2^2\right) _Z^3 + \left(2916\, c2^8 - 13986\, c2^6 - 27810\, c2^4 + 4266\, c2^2\right) _Z^2 + \Big($$

$$-2916\,c2^8 + 18360\,c2^6 + 18360\,c2^4 - 2916\,c2^2)\,_Z + 729\,c2^{10} - 9126\,c2^8 + 8851\,c2^6$$

$$- 9126\,c2^4 + 729\,c2^2, index = real_3) < c1 \wedge c1 < RootOf((729\,c2^2 - 108)\,_Z^8 + ($$

$$-2916\,c2^2 + 432)\,_Z^7 + (2916\,c2^4 + 4050\,c2^2 - 648)\,_Z^6 + (-8748\,c2^4 - 1944\,c2^2$$

$$+ 432)\,_Z^5 + (4374\,c2^6 - 702\,c2^4 + 1107\,c2^2 - 108)\,_Z^4 + (-8748\,c2^6$$

$$+ 15984\,c2^4 - 2376\,c2^2)\,_Z^3 + (2916\,c2^8 - 13986\,c2^6 - 27810\,c2^4 + 4266\,c2^2)\,_Z^2$$

$$+ (-2916\,c2^8 + 18360\,c2^6 + 18360\,c2^4 - 2916\,c2^2)\,_Z + 729\,c2^{10} - 9126\,c2^8$$

$$+ 8851\,c2^6 - 9126\,c2^4 + 729\,c2^2, index = real_4)\Big], \Big[-\frac{2\sqrt{3}}{9} < c2 \wedge c2 < -\frac{3\sqrt{3}}{14},$$

$$c1 = RootOf((729\,c2^2 - 108)\,_Z^8 + (-2916\,c2^2 + 432)\,_Z^7 + (2916\,c2^4 + 4050\,c2^2$$

$$- 648)\,_Z^6 + (-8748\,c2^4 - 1944\,c2^2 + 432)\,_Z^5 + (4374\,c2^6 - 702\,c2^4 + 1107\,c2^2$$

$$- 108)\,_Z^4 + (-8748\,c2^6 + 15984\,c2^4 - 2376\,c2^2)\,_Z^3 + (2916\,c2^8 - 13986\,c2^6$$

$$- 27810\,c2^4 + 4266\,c2^2)\,_Z^2 + (-2916\,c2^8 + 18360\,c2^6 + 18360\,c2^4 - 2916\,c2^2)\,_Z$$

$$+ 729\,c2^{10} - 9126\,c2^8 + 8851\,c2^6 - 9126\,c2^4 + 729\,c2^2, index = real_4)\Big], \Big[-\frac{2\sqrt{3}}{9}$$

$$< c2 \wedge c2 < -\frac{3\sqrt{3}}{14}, RootOf((729\,c2^2 - 108)\,_Z^8 + (-2916\,c2^2 + 432)\,_Z^7$$

$$+ (2916\,c2^4 + 4050\,c2^2 - 648)\,_Z^6 + (-8748\,c2^4 - 1944\,c2^2 + 432)\,_Z^5$$

$$+ (4374\,c2^6 - 702\,c2^4 + 1107\,c2^2 - 108)\,_Z^4 + (-8748\,c2^6 + 15984\,c2^4$$

$$- 2376\,c2^2)\,_Z^3 + (2916\,c2^8 - 13986\,c2^6 - 27810\,c2^4 + 4266\,c2^2)\,_Z^2 + ($$

$$-2916\,c2^8 + 18360\,c2^6 + 18360\,c2^4 - 2916\,c2^2)\,_Z + 729\,c2^{10} - 9126\,c2^8 + 8851\,c2^6$$

$$- 9126\,c2^4 + 729\,c2^2, index = real_4) < c1\Big], \Big[c2 = -\frac{3\sqrt{3}}{14}, c1 < -\frac{13}{14}\Big], \Big[c2 =$$

$$-\frac{3\sqrt{3}}{14}, c1 = -\frac{13}{14}\Big], \Big[c2 = -\frac{3\sqrt{3}}{14}, -\frac{13}{14} < c1 \wedge c1 < \frac{27}{14}\Big], \Big[c2 = -\frac{3\sqrt{3}}{14}, c1$$

$$= \frac{27}{14}\Big], \Big[c2 = -\frac{3\sqrt{3}}{14}, \frac{27}{14} < c1\Big], \Big[-\frac{3\sqrt{3}}{14} < c2 \wedge c2 < -\frac{\sqrt{3}}{18}, c1$$

$$< RootOf\big((729\,c2^2 - 108)\,_Z^8 + (-2916\,c2^2 + 432)\,_Z^7 + (2916\,c2^4 + 4050\,c2^2$$

$$- 648)\,_Z^6 + (-8748\,c2^4 - 1944\,c2^2 + 432)\,_Z^5 + (4374\,c2^6 - 702\,c2^4 + 1107\,c2^2$$

$$- 108)\,_Z^4 + (-8748\,c2^6 + 15984\,c2^4 - 2376\,c2^2)\,_Z^3 + (2916\,c2^8 - 13986\,c2^6$$

$$- 27810\,c2^4 + 4266\,c2^2)\,_Z^2 + (-2916\,c2^8 + 18360\,c2^6 + 18360\,c2^4 - 2916\,c2^2)\,_Z$$

$$+ 729\,c2^{10} - 9126\,c2^8 + 8851\,c2^6 - 9126\,c2^4 + 729\,c2^2, index = real_1\big)\Big], \Big[-\frac{3\sqrt{3}}{14}$$

$$< c2 \wedge c2 < -\frac{\sqrt{3}}{18}, c1 = RootOf\big((729\,c2^2 - 108)\,_Z^8 + (-2916\,c2^2 + 432)\,_Z^7$$

$$+ (2916\,c2^4 + 4050\,c2^2 - 648)\,_Z^6 + (-8748\,c2^4 - 1944\,c2^2 + 432)\,_Z^5$$

$$+ (4374\,c2^6 - 702\,c2^4 + 1107\,c2^2 - 108)\,_Z^4 + (-8748\,c2^6 + 15984\,c2^4$$

$$- 2376\,c2^2)\,_Z^3 + (2916\,c2^8 - 13986\,c2^6 - 27810\,c2^4 + 4266\,c2^2)\,_Z^2 + ($$

$$-2916\,c2^8 + 18360\,c2^6 + 18360\,c2^4 - 2916\,c2^2)\,_Z + 729\,c2^{10} - 9126\,c2^8 + 8851\,c2^6$$

$$- 9126\,c2^4 + 729\,c2^2, index = real_1\big)\Big], \Big[-\frac{3\sqrt{3}}{14} < c2 \wedge c2 < -\frac{\sqrt{3}}{18},$$

$$RootOf\big((729\,c2^2 - 108)\,_Z^8 + (-2916\,c2^2 + 432)\,_Z^7 + (2916\,c2^4 + 4050\,c2^2$$

$$- 648)\,_Z^6 + (-8748\,c2^4 - 1944\,c2^2 + 432)\,_Z^5 + (4374\,c2^6 - 702\,c2^4 + 1107\,c2^2$$

$$- 108)\,_Z^4 + (-8748\,c2^6 + 15984\,c2^4 - 2376\,c2^2)\,_Z^3 + (2916\,c2^8 - 13986\,c2^6$$

$$- 27810\,c2^4 + 4266\,c2^2)\,_Z^2 + (-2916\,c2^8 + 18360\,c2^6 + 18360\,c2^4 - 2916\,c2^2)\,_Z$$

$$+ 729\,c2^{10} - 9126\,c2^8 + 8851\,c2^6 - 9126\,c2^4 + 729\,c2^2, index = real_1\big) < c1 \wedge c1$$

$< RootOf\left(\left(729\, c2^2 - 108\right) _Z^8 + \left(-2916\, c2^2 + 432\right) _Z^7 + \left(2916\, c2^4 + 4050\, c2^2\right.\right.$

$- 648\big) _Z^6 + \left(-8748\, c2^4 - 1944\, c2^2 + 432\right) _Z^5 + \left(4374\, c2^6 - 702\, c2^4 + 1107\, c2^2\right.$

$- 108\big) _Z^4 + \left(-8748\, c2^6 + 15984\, c2^4 - 2376\, c2^2\right) _Z^3 + \left(2916\, c2^8 - 13986\, c2^6\right.$

$- 27810\, c2^4 + 4266\, c2^2\big) _Z^2 + \left(-2916\, c2^8 + 18360\, c2^6 + 18360\, c2^4 - 2916\, c2^2\right) _Z$

$+ 729\, c2^{10} - 9126\, c2^8 + 8851\, c2^6 - 9126\, c2^4 + 729\, c2^2, index = real_2\big)\Big], \Big[-\frac{3\sqrt{3}}{14}$

$< c2 \wedge c2 < -\frac{\sqrt{3}}{18}, c1 = RootOf\left(\left(729\, c2^2 - 108\right) _Z^8 + \left(-2916\, c2^2 + 432\right) _Z^7\right.$

$+ \left(2916\, c2^4 + 4050\, c2^2 - 648\right) _Z^6 + \left(-8748\, c2^4 - 1944\, c2^2 + 432\right) _Z^5$

$+ \left(4374\, c2^6 - 702\, c2^4 + 1107\, c2^2 - 108\right) _Z^4 + \left(-8748\, c2^6 + 15984\, c2^4\right.$

$- 2376\, c2^2\big) _Z^3 + \left(2916\, c2^8 - 13986\, c2^6 - 27810\, c2^4 + 4266\, c2^2\right) _Z^2 + \Big($

$-2916\, c2^8 + 18360\, c2^6 + 18360\, c2^4 - 2916\, c2^2\big) _Z + 729\, c2^{10} - 9126\, c2^8 + 8851\, c2^6$

$- 9126\, c2^4 + 729\, c2^2, index = real_2\big)\Big], \Big[-\frac{3\sqrt{3}}{14} < c2 \wedge c2 < -\frac{\sqrt{3}}{18},$

$RootOf\left(\left(729\, c2^2 - 108\right) _Z^8 + \left(-2916\, c2^2 + 432\right) _Z^7 + \left(2916\, c2^4 + 4050\, c2^2\right.\right.$

$- 648\big) _Z^6 + \left(-8748\, c2^4 - 1944\, c2^2 + 432\right) _Z^5 + \left(4374\, c2^6 - 702\, c2^4 + 1107\, c2^2\right.$

$- 108\big) _Z^4 + \left(-8748\, c2^6 + 15984\, c2^4 - 2376\, c2^2\right) _Z^3 + \left(2916\, c2^8 - 13986\, c2^6\right.$

$- 27810\, c2^4 + 4266\, c2^2\big) _Z^2 + \left(-2916\, c2^8 + 18360\, c2^6 + 18360\, c2^4 - 2916\, c2^2\right) _Z$

$+ 729\, c2^{10} - 9126\, c2^8 + 8851\, c2^6 - 9126\, c2^4 + 729\, c2^2, index = real_2\big) < c1 \wedge c1$

$< RootOf\left(\left(729\, c2^2 - 108\right) _Z^8 + \left(-2916\, c2^2 + 432\right) _Z^7 + \left(2916\, c2^4 + 4050\, c2^2\right.\right.$

$- 648\big) _Z^6 + \left(-8748\, c2^4 - 1944\, c2^2 + 432\right) _Z^5 + \left(4374\, c2^6 - 702\, c2^4 + 1107\, c2^2\right.$

$$- 108\big)\ _Z^4 + \big(-8748\, c2^6 + 15984\, c2^4 - 2376\, c2^2\big)\ _Z^3 + \big(2916\, c2^8 - 13986\, c2^6$$

$$- 27810\, c2^4 + 4266\, c2^2\big)\ _Z^2 + \big(-2916\, c2^8 + 18360\, c2^6 + 18360\, c2^4 - 2916\, c2^2\big)\ _Z$$

$$+ 729\, c2^{10} - 9126\, c2^8 + 8851\, c2^6 - 9126\, c2^4 + 729\, c2^2, index = real_3\big)\Big], \Big[-\frac{3\sqrt{3}}{14}$$

$$< c2 \wedge c2 < -\frac{\sqrt{3}}{18}, c1 = RootOf\big(\big(729\, c2^2 - 108\big)\ _Z^8 + \big(-2916\, c2^2 + 432\big)\ _Z^7$$

$$+ \big(2916\, c2^4 + 4050\, c2^2 - 648\big)\ _Z^6 + \big(-8748\, c2^4 - 1944\, c2^2 + 432\big)\ _Z^5$$

$$+ \big(4374\, c2^6 - 702\, c2^4 + 1107\, c2^2 - 108\big)\ _Z^4 + \big(-8748\, c2^6 + 15984\, c2^4$$

$$- 2376\, c2^2\big)\ _Z^3 + \big(2916\, c2^8 - 13986\, c2^6 - 27810\, c2^4 + 4266\, c2^2\big)\ _Z^2 + \big($$

$$-2916\, c2^8 + 18360\, c2^6 + 18360\, c2^4 - 2916\, c2^2\big)\ _Z + 729\, c2^{10} - 9126\, c2^8 + 8851\, c2^6$$

$$- 9126\, c2^4 + 729\, c2^2, index = real_3\big)\Big], \Big[-\frac{3\sqrt{3}}{14} < c2 \wedge c2 < -\frac{\sqrt{3}}{18},$$

$$RootOf\big(\big(729\, c2^2 - 108\big)\ _Z^8 + \big(-2916\, c2^2 + 432\big)\ _Z^7 + \big(2916\, c2^4 + 4050\, c2^2$$

$$- 648\big)\ _Z^6 + \big(-8748\, c2^4 - 1944\, c2^2 + 432\big)\ _Z^5 + \big(4374\, c2^6 - 702\, c2^4 + 1107\, c2^2$$

$$- 108\big)\ _Z^4 + \big(-8748\, c2^6 + 15984\, c2^4 - 2376\, c2^2\big)\ _Z^3 + \big(2916\, c2^8 - 13986\, c2^6$$

$$- 27810\, c2^4 + 4266\, c2^2\big)\ _Z^2 + \big(-2916\, c2^8 + 18360\, c2^6 + 18360\, c2^4 - 2916\, c2^2\big)\ _Z$$

$$+ 729\, c2^{10} - 9126\, c2^8 + 8851\, c2^6 - 9126\, c2^4 + 729\, c2^2, index = real_3\big) < c1 \wedge c1$$

$$< RootOf\big(\big(729\, c2^2 - 108\big)\ _Z^8 + \big(-2916\, c2^2 + 432\big)\ _Z^7 + \big(2916\, c2^4 + 4050\, c2^2$$

$$- 648\big)\ _Z^6 + \big(-8748\, c2^4 - 1944\, c2^2 + 432\big)\ _Z^5 + \big(4374\, c2^6 - 702\, c2^4 + 1107\, c2^2$$

$$- 108\big)\ _Z^4 + \big(-8748\, c2^6 + 15984\, c2^4 - 2376\, c2^2\big)\ _Z^3 + \big(2916\, c2^8 - 13986\, c2^6$$

$$- 27810\, c2^4 + 4266\, c2^2\big)\ _Z^2 + \big(-2916\, c2^8 + 18360\, c2^6 + 18360\, c2^4 - 2916\, c2^2\big)\ _Z$$

$$+ 729\, c2^{10} - 9126\, c2^{8} + 8851\, c2^{6} - 9126\, c2^{4} + 729\, c2^{2}, index = real_4\big)\Big], \Big[-\frac{3\sqrt{3}}{14}$$

$$< c2 \wedge c2 < -\frac{\sqrt{3}}{18}, c1 = RootOf\big(\big(729\, c2^{2} - 108\big)\, _Z^{8} + \big(-2916\, c2^{2} + 432\big)\, _Z^{7}$$

$$+ \big(2916\, c2^{4} + 4050\, c2^{2} - 648\big)\, _Z^{6} + \big(-8748\, c2^{4} - 1944\, c2^{2} + 432\big)\, _Z^{5}$$

$$+ \big(4374\, c2^{6} - 702\, c2^{4} + 1107\, c2^{2} - 108\big)\, _Z^{4} + \big(-8748\, c2^{6} + 15984\, c2^{4}$$

$$- 2376\, c2^{2}\big)\, _Z^{3} + \big(2916\, c2^{8} - 13986\, c2^{6} - 27810\, c2^{4} + 4266\, c2^{2}\big)\, _Z^{2} + \big($$

$$-2916\, c2^{8} + 18360\, c2^{6} + 18360\, c2^{4} - 2916\, c2^{2}\big)\, _Z + 729\, c2^{10} - 9126\, c2^{8} + 8851\, c2^{6}$$

$$- 9126\, c2^{4} + 729\, c2^{2}, index = real_4\big)\Big], \Big[-\frac{3\sqrt{3}}{14} < c2 \wedge c2 < -\frac{\sqrt{3}}{18},$$

$$RootOf\big(\big(729\, c2^{2} - 108\big)\, _Z^{8} + \big(-2916\, c2^{2} + 432\big)\, _Z^{7} + \big(2916\, c2^{4} + 4050\, c2^{2}$$

$$- 648\big)\, _Z^{6} + \big(-8748\, c2^{4} - 1944\, c2^{2} + 432\big)\, _Z^{5} + \big(4374\, c2^{6} - 702\, c2^{4} + 1107\, c2^{2}$$

$$- 108\big)\, _Z^{4} + \big(-8748\, c2^{6} + 15984\, c2^{4} - 2376\, c2^{2}\big)\, _Z^{3} + \big(2916\, c2^{8} - 13986\, c2^{6}$$

$$- 27810\, c2^{4} + 4266\, c2^{2}\big)\, _Z^{2} + \big(-2916\, c2^{8} + 18360\, c2^{6} + 18360\, c2^{4} - 2916\, c2^{2}\big)\, _Z$$

$$+ 729\, c2^{10} - 9126\, c2^{8} + 8851\, c2^{6} - 9126\, c2^{4} + 729\, c2^{2}, index = real_4\big) < c1\Big], \Big[c2 =$$

$$-\frac{\sqrt{3}}{18}, c1 < \frac{1}{2} - \frac{4\sqrt{5}}{9}\Big], \Big[c2 = -\frac{\sqrt{3}}{18}, c1 = \frac{1}{2} - \frac{4\sqrt{5}}{9}\Big], \Big[c2 = -\frac{\sqrt{3}}{18}, \frac{1}{2}$$

$$- \frac{4\sqrt{5}}{9} < c1 \wedge c1 < \frac{1}{2}\Big], \Big[c2 = -\frac{\sqrt{3}}{18}, c1 = \frac{1}{2}\Big], \Big[c2 = -\frac{\sqrt{3}}{18}, \frac{1}{2} < c1 \wedge c1$$

$$< \frac{1}{2} + \frac{4\sqrt{5}}{9}\Big], \Big[c2 = -\frac{\sqrt{3}}{18}, c1 = \frac{1}{2} + \frac{4\sqrt{5}}{9}\Big], \Big[c2 = -\frac{\sqrt{3}}{18}, \frac{1}{2} + \frac{4\sqrt{5}}{9}$$

$$< c1\Big], \Big[-\frac{\sqrt{3}}{18} < c2 \wedge c2 < 0, c1 < RootOf\big(\big(729\, c2^{2} - 108\big)\, _Z^{8} + \big(-2916\, c2^{2}$$

$$+ 432\big)\, _Z^{7} + \big(2916\, c2^{4} + 4050\, c2^{2} - 648\big)\, _Z^{6} + \big(-8748\, c2^{4} - 1944\, c2^{2}$$

$$+ 432\big)\, _Z^{5} + \big(4374\, c2^{6} - 702\, c2^{4} + 1107\, c2^{2} - 108\big)\, _Z^{4} + \big(-8748\, c2^{6}$$

$$+ 15984\, c2^4 - 2376\, c2^2)\, _Z^3 + (2916\, c2^8 - 13986\, c2^6 - 27810\, c2^4 + 4266\, c2^2)\, _Z^2$$

$$+ (-2916\, c2^8 + 18360\, c2^6 + 18360\, c2^4 - 2916\, c2^2)\, _Z + 729\, c2^{10} - 9126\, c2^8$$

$$+ 8851\, c2^6 - 9126\, c2^4 + 729\, c2^2, index = real_1)\Big], \Big[-\frac{\sqrt{3}}{18} < c2 \wedge c2 < 0, c1$$

$$= RootOf\big((729\, c2^2 - 108)\, _Z^8 + (-2916\, c2^2 + 432)\, _Z^7 + (2916\, c2^4 + 4050\, c2^2$$

$$- 648)\, _Z^6 + (-8748\, c2^4 - 1944\, c2^2 + 432)\, _Z^5 + (4374\, c2^6 - 702\, c2^4 + 1107\, c2^2$$

$$- 108)\, _Z^4 + (-8748\, c2^6 + 15984\, c2^4 - 2376\, c2^2)\, _Z^3 + (2916\, c2^8 - 13986\, c2^6$$

$$- 27810\, c2^4 + 4266\, c2^2)\, _Z^2 + (-2916\, c2^8 + 18360\, c2^6 + 18360\, c2^4 - 2916\, c2^2)\, _Z$$

$$+ 729\, c2^{10} - 9126\, c2^8 + 8851\, c2^6 - 9126\, c2^4 + 729\, c2^2, index = real_1)\Big], \Big[-\frac{\sqrt{3}}{18}$$

$$< c2 \wedge c2 < 0, RootOf\big((729\, c2^2 - 108)\, _Z^8 + (-2916\, c2^2 + 432)\, _Z^7 + (2916\, c2^4$$

$$+ 4050\, c2^2 - 648)\, _Z^6 + (-8748\, c2^4 - 1944\, c2^2 + 432)\, _Z^5 + (4374\, c2^6 - 702\, c2^4$$

$$+ 1107\, c2^2 - 108)\, _Z^4 + (-8748\, c2^6 + 15984\, c2^4 - 2376\, c2^2)\, _Z^3 + (2916\, c2^8$$

$$- 13986\, c2^6 - 27810\, c2^4 + 4266\, c2^2)\, _Z^2 + (-2916\, c2^8 + 18360\, c2^6 + 18360\, c2^4$$

$$- 2916\, c2^2)\, _Z + 729\, c2^{10} - 9126\, c2^8 + 8851\, c2^6 - 9126\, c2^4 + 729\, c2^2, index = real_1)$$

$$< c1 \wedge c1 < RootOf\big((729\, c2^2 - 108)\, _Z^8 + (-2916\, c2^2 + 432)\, _Z^7 + (2916\, c2^4$$

$$+ 4050\, c2^2 - 648)\, _Z^6 + (-8748\, c2^4 - 1944\, c2^2 + 432)\, _Z^5 + (4374\, c2^6 - 702\, c2^4$$

$$+ 1107\, c2^2 - 108)\, _Z^4 + (-8748\, c2^6 + 15984\, c2^4 - 2376\, c2^2)\, _Z^3 + (2916\, c2^8$$

$$- 13986\, c2^6 - 27810\, c2^4 + 4266\, c2^2)\, _Z^2 + (-2916\, c2^8 + 18360\, c2^6 + 18360\, c2^4$$

$$- 2916\, c2^2)\, _Z + 729\, c2^{10} - 9126\, c2^8 + 8851\, c2^6 - 9126\, c2^4 + 729\, c2^2, index$$

$$= real_2\big)\big], \left[-\frac{\sqrt{3}}{18} < c2 \wedge c2 < 0, c1 = RootOf\big(\big(729\, c2^2 - 108\big)\, _Z^8 + \big(-2916\, c2^2$$

$$+ 432\big)\, _Z^7 + \big(2916\, c2^4 + 4050\, c2^2 - 648\big)\, _Z^6 + \big(-8748\, c2^4 - 1944\, c2^2$$

$$+ 432\big)\, _Z^5 + \big(4374\, c2^6 - 702\, c2^4 + 1107\, c2^2 - 108\big)\, _Z^4 + \big(-8748\, c2^6$$

$$+ 15984\, c2^4 - 2376\, c2^2\big)\, _Z^3 + \big(2916\, c2^8 - 13986\, c2^6 - 27810\, c2^4 + 4266\, c2^2\big)\, _Z^2$$

$$+ \big(-2916\, c2^8 + 18360\, c2^6 + 18360\, c2^4 - 2916\, c2^2\big)\, _Z + 729\, c2^{10} - 9126\, c2^8$$

$$+ 8851\, c2^6 - 9126\, c2^4 + 729\, c2^2, index = real_2\big)\big], \left[-\frac{\sqrt{3}}{18} < c2 \wedge c2 < 0,\right.$$

$$RootOf\big(\big(729\, c2^2 - 108\big)\, _Z^8 + \big(-2916\, c2^2 + 432\big)\, _Z^7 + \big(2916\, c2^4 + 4050\, c2^2$$

$$- 648\big)\, _Z^6 + \big(-8748\, c2^4 - 1944\, c2^2 + 432\big)\, _Z^5 + \big(4374\, c2^6 - 702\, c2^4 + 1107\, c2^2$$

$$- 108\big)\, _Z^4 + \big(-8748\, c2^6 + 15984\, c2^4 - 2376\, c2^2\big)\, _Z^3 + \big(2916\, c2^8 - 13986\, c2^6$$

$$- 27810\, c2^4 + 4266\, c2^2\big)\, _Z^2 + \big(-2916\, c2^8 + 18360\, c2^6 + 18360\, c2^4 - 2916\, c2^2\big)\, _Z$$

$$+ 729\, c2^{10} - 9126\, c2^8 + 8851\, c2^6 - 9126\, c2^4 + 729\, c2^2, index = real_2\big) < c1 \wedge c1$$

$$< RootOf\big(\big(729\, c2^2 - 108\big)\, _Z^8 + \big(-2916\, c2^2 + 432\big)\, _Z^7 + \big(2916\, c2^4 + 4050\, c2^2$$

$$- 648\big)\, _Z^6 + \big(-8748\, c2^4 - 1944\, c2^2 + 432\big)\, _Z^5 + \big(4374\, c2^6 - 702\, c2^4 + 1107\, c2^2$$

$$- 108\big)\, _Z^4 + \big(-8748\, c2^6 + 15984\, c2^4 - 2376\, c2^2\big)\, _Z^3 + \big(2916\, c2^8 - 13986\, c2^6$$

$$- 27810\, c2^4 + 4266\, c2^2\big)\, _Z^2 + \big(-2916\, c2^8 + 18360\, c2^6 + 18360\, c2^4 - 2916\, c2^2\big)\, _Z$$

$$+ 729\, c2^{10} - 9126\, c2^8 + 8851\, c2^6 - 9126\, c2^4 + 729\, c2^2, index = real_3\big)\big], \left[-\frac{\sqrt{3}}{18}\right.$$

$$< c2 \wedge c2 < 0, c1 = RootOf\big(\big(729\, c2^2 - 108\big)\, _Z^8 + \big(-2916\, c2^2 + 432\big)\, _Z^7$$

$$+ \big(2916\, c2^4 + 4050\, c2^2 - 648\big)\, _Z^6 + \big(-8748\, c2^4 - 1944\, c2^2 + 432\big)\, _Z^5$$

$$+ \left(4374\, c2^6 - 702\, c2^4 + 1107\, c2^2 - 108\right) _Z^4 + \left(-8748\, c2^6 + 15984\, c2^4 - 2376\, c2^2\right) _Z^3 + \left(2916\, c2^8 - 13986\, c2^6 - 27810\, c2^4 + 4266\, c2^2\right) _Z^2 + \left(-2916\, c2^8 + 18360\, c2^6 + 18360\, c2^4 - 2916\, c2^2\right) _Z + 729\, c2^{10} - 9126\, c2^8 + 8851\, c2^6 - 9126\, c2^4 + 729\, c2^2, index = real_3\Big)\Big], \Big[-\frac{\sqrt{3}}{18} < c2 \wedge c2 < 0, RootOf\Big(\left(729\, c2^2 - 108\right) _Z^8 + \left(-2916\, c2^2 + 432\right) _Z^7 + \left(2916\, c2^4 + 4050\, c2^2 - 648\right) _Z^6 + \left(-8748\, c2^4 - 1944\, c2^2 + 432\right) _Z^5 + \left(4374\, c2^6 - 702\, c2^4 + 1107\, c2^2 - 108\right) _Z^4 + \left(-8748\, c2^6 + 15984\, c2^4 - 2376\, c2^2\right) _Z^3 + \left(2916\, c2^8 - 13986\, c2^6 - 27810\, c2^4 + 4266\, c2^2\right) _Z^2 + \left(-2916\, c2^8 + 18360\, c2^6 + 18360\, c2^4 - 2916\, c2^2\right) _Z + 729\, c2^{10} - 9126\, c2^8 + 8851\, c2^6 - 9126\, c2^4 + 729\, c2^2, index = real_3\Big) < c1 \wedge c1 < RootOf\Big(\left(729\, c2^2 - 108\right) _Z^8 + \left(-2916\, c2^2 + 432\right) _Z^7 + \left(2916\, c2^4 + 4050\, c2^2 - 648\right) _Z^6 + \left(-8748\, c2^4 - 1944\, c2^2 + 432\right) _Z^5 + \left(4374\, c2^6 - 702\, c2^4 + 1107\, c2^2 - 108\right) _Z^4 + \left(-8748\, c2^6 + 15984\, c2^4 - 2376\, c2^2\right) _Z^3 + \left(2916\, c2^8 - 13986\, c2^6 - 27810\, c2^4 + 4266\, c2^2\right) _Z^2 + \left(-2916\, c2^8 + 18360\, c2^6 + 18360\, c2^4 - 2916\, c2^2\right) _Z + 729\, c2^{10} - 9126\, c2^8 + 8851\, c2^6 - 9126\, c2^4 + 729\, c2^2, index = real_4\Big)\Big], \Big[-\frac{\sqrt{3}}{18} < c2 \wedge c2 < 0, c1 = RootOf\Big(\left(729\, c2^2 - 108\right) _Z^8 + \left(-2916\, c2^2 + 432\right) _Z^7 + \left(2916\, c2^4 + 4050\, c2^2 - 648\right) _Z^6 + \left(-8748\, c2^4 - 1944\, c2^2 + 432\right) _Z^5 + \left(4374\, c2^6 - 702\, c2^4 + 1107\, c2^2 - 108\right) _Z^4 + \left(-8748\, c2^6 + 15984\, c2^4 - 2376\, c2^2\right) _Z^3 + \left(2916\, c2^8 - 13986\, c2^6 - 27810\, c2^4 + 4266\, c2^2\right) _Z^2 + \left(\right.$$

$$-2916\,c2^8 + 18360\,c2^6 + 18360\,c2^4 - 2916\,c2^2)\,_Z + 729\,c2^{10} - 9126\,c2^8 + 8851\,c2^6$$

$$- 9126\,c2^4 + 729\,c2^2, index = real_4)\Big], \Big[-\frac{\sqrt{3}}{18} < c2 \wedge c2 < 0, RootOf\big((729\,c2^2$$

$$- 108)\,_Z^8 + (-2916\,c2^2 + 432)\,_Z^7 + (2916\,c2^4 + 4050\,c2^2 - 648)\,_Z^6 + ($$

$$-8748\,c2^4 - 1944\,c2^2 + 432)\,_Z^5 + (4374\,c2^6 - 702\,c2^4 + 1107\,c2^2 - 108)\,_Z^4 + ($$

$$-8748\,c2^6 + 15984\,c2^4 - 2376\,c2^2)\,_Z^3 + (2916\,c2^8 - 13986\,c2^6 - 27810\,c2^4$$

$$+ 4266\,c2^2)\,_Z^2 + (-2916\,c2^8 + 18360\,c2^6 + 18360\,c2^4 - 2916\,c2^2)\,_Z + 729\,c2^{10}$$

$$- 9126\,c2^8 + 8851\,c2^6 - 9126\,c2^4 + 729\,c2^2, index = real_4\big) < c1\Big], [c2 = 0, c1 < 0],$$

$$[c2 = 0, c1 = 0], [c2 = 0, 0 < c1 \wedge c1 < 1], [c2 = 0, c1 = 1], [c2 = 0, 1 < c1], \Big[0 < c2$$

$$\wedge\, c2 < \frac{\sqrt{3}}{18}, c1 < RootOf\big((729\,c2^2 - 108)\,_Z^8 + (-2916\,c2^2 + 432)\,_Z^7$$

$$+ (2916\,c2^4 + 4050\,c2^2 - 648)\,_Z^6 + (-8748\,c2^4 - 1944\,c2^2 + 432)\,_Z^5$$

$$+ (4374\,c2^6 - 702\,c2^4 + 1107\,c2^2 - 108)\,_Z^4 + (-8748\,c2^6 + 15984\,c2^4$$

$$- 2376\,c2^2)\,_Z^3 + (2916\,c2^8 - 13986\,c2^6 - 27810\,c2^4 + 4266\,c2^2)\,_Z^2 + ($$

$$-2916\,c2^8 + 18360\,c2^6 + 18360\,c2^4 - 2916\,c2^2)\,_Z + 729\,c2^{10} - 9126\,c2^8 + 8851\,c2^6$$

$$- 9126\,c2^4 + 729\,c2^2, index = real_1\big)\Big], \Big[0 < c2 \wedge c2 < \frac{\sqrt{3}}{18}, c1 = RootOf\big((729\,c2^2$$

$$- 108)\,_Z^8 + (-2916\,c2^2 + 432)\,_Z^7 + (2916\,c2^4 + 4050\,c2^2 - 648)\,_Z^6 + ($$

$$-8748\,c2^4 - 1944\,c2^2 + 432)\,_Z^5 + (4374\,c2^6 - 702\,c2^4 + 1107\,c2^2 - 108)\,_Z^4 + ($$

$$-8748\,c2^6 + 15984\,c2^4 - 2376\,c2^2)\,_Z^3 + (2916\,c2^8 - 13986\,c2^6 - 27810\,c2^4$$

$$+ 4266\,c2^2)\,_Z^2 + (-2916\,c2^8 + 18360\,c2^6 + 18360\,c2^4 - 2916\,c2^2)\,_Z + 729\,c2^{10}$$

$$- 9126\, c2^8 + 8851\, c2^6 - 9126\, c2^4 + 729\, c2^2, index = real_1 \big) \Big], \Big[0 < c2 \wedge c2 < \frac{\sqrt{3}}{18},$$

$$RootOf\big((729\, c2^2 - 108)\, _Z^8 + (-2916\, c2^2 + 432)\, _Z^7 + (2916\, c2^4 + 4050\, c2^2$$

$$- 648)\, _Z^6 + (-8748\, c2^4 - 1944\, c2^2 + 432)\, _Z^5 + (4374\, c2^6 - 702\, c2^4 + 1107\, c2^2$$

$$- 108)\, _Z^4 + (-8748\, c2^6 + 15984\, c2^4 - 2376\, c2^2)\, _Z^3 + (2916\, c2^8 - 13986\, c2^6$$

$$- 27810\, c2^4 + 4266\, c2^2)\, _Z^2 + (-2916\, c2^8 + 18360\, c2^6 + 18360\, c2^4 - 2916\, c2^2)\, _Z$$

$$+ 729\, c2^{10} - 9126\, c2^8 + 8851\, c2^6 - 9126\, c2^4 + 729\, c2^2, index = real_1 \big) < c1 \wedge c1$$

$$< RootOf\big((729\, c2^2 - 108)\, _Z^8 + (-2916\, c2^2 + 432)\, _Z^7 + (2916\, c2^4 + 4050\, c2^2$$

$$- 648)\, _Z^6 + (-8748\, c2^4 - 1944\, c2^2 + 432)\, _Z^5 + (4374\, c2^6 - 702\, c2^4 + 1107\, c2^2$$

$$- 108)\, _Z^4 + (-8748\, c2^6 + 15984\, c2^4 - 2376\, c2^2)\, _Z^3 + (2916\, c2^8 - 13986\, c2^6$$

$$- 27810\, c2^4 + 4266\, c2^2)\, _Z^2 + (-2916\, c2^8 + 18360\, c2^6 + 18360\, c2^4 - 2916\, c2^2)\, _Z$$

$$+ 729\, c2^{10} - 9126\, c2^8 + 8851\, c2^6 - 9126\, c2^4 + 729\, c2^2, index = real_2 \big) \Big], \Big[0 < c2 \wedge c2$$

$$< \frac{\sqrt{3}}{18}, c1 = RootOf\big((729\, c2^2 - 108)\, _Z^8 + (-2916\, c2^2 + 432)\, _Z^7 + (2916\, c2^4$$

$$+ 4050\, c2^2 - 648)\, _Z^6 + (-8748\, c2^4 - 1944\, c2^2 + 432)\, _Z^5 + (4374\, c2^6 - 702\, c2^4$$

$$+ 1107\, c2^2 - 108)\, _Z^4 + (-8748\, c2^6 + 15984\, c2^4 - 2376\, c2^2)\, _Z^3 + (2916\, c2^8$$

$$- 13986\, c2^6 - 27810\, c2^4 + 4266\, c2^2)\, _Z^2 + (-2916\, c2^8 + 18360\, c2^6 + 18360\, c2^4$$

$$- 2916\, c2^2)\, _Z + 729\, c2^{10} - 9126\, c2^8 + 8851\, c2^6 - 9126\, c2^4 + 729\, c2^2, index$$

$$= real_2 \big) \Big], \Big[0 < c2 \wedge c2 < \frac{\sqrt{3}}{18}, RootOf\big((729\, c2^2 - 108)\, _Z^8 + (-2916\, c2^2$$

$$+ 432)\, _Z^7 + (2916\, c2^4 + 4050\, c2^2 - 648)\, _Z^6 + (-8748\, c2^4 - 1944\, c2^2$$

$$+ 432)\ _Z^5 + (4374\, c2^6 - 702\, c2^4 + 1107\, c2^2 - 108)\ _Z^4 + (-8748\, c2^6$$

$$+ 15984\, c2^4 - 2376\, c2^2)\ _Z^3 + (2916\, c2^8 - 13986\, c2^6 - 27810\, c2^4 + 4266\, c2^2)\ _Z^2$$

$$+ (-2916\, c2^8 + 18360\, c2^6 + 18360\, c2^4 - 2916\, c2^2)\ _Z + 729\, c2^{10} - 9126\, c2^8$$

$$+ 8851\, c2^6 - 9126\, c2^4 + 729\, c2^2, index = real_2) < c1 \wedge c1 < RootOf((729\, c2^2$$

$$- 108)\ _Z^8 + (-2916\, c2^2 + 432)\ _Z^7 + (2916\, c2^4 + 4050\, c2^2 - 648)\ _Z^6 + ($$

$$-8748\, c2^4 - 1944\, c2^2 + 432)\ _Z^5 + (4374\, c2^6 - 702\, c2^4 + 1107\, c2^2 - 108)\ _Z^4 + ($$

$$-8748\, c2^6 + 15984\, c2^4 - 2376\, c2^2)\ _Z^3 + (2916\, c2^8 - 13986\, c2^6 - 27810\, c2^4$$

$$+ 4266\, c2^2)\ _Z^2 + (-2916\, c2^8 + 18360\, c2^6 + 18360\, c2^4 - 2916\, c2^2)\ _Z + 729\, c2^{10}$$

$$- 9126\, c2^8 + 8851\, c2^6 - 9126\, c2^4 + 729\, c2^2, index = real_3)\ ], \left[0 < c2 \wedge c2 < \frac{\sqrt{3}}{18},\right.$$

$$c1 = RootOf((729\, c2^2 - 108)\ _Z^8 + (-2916\, c2^2 + 432)\ _Z^7 + (2916\, c2^4 + 4050\, c2^2$$

$$- 648)\ _Z^6 + (-8748\, c2^4 - 1944\, c2^2 + 432)\ _Z^5 + (4374\, c2^6 - 702\, c2^4 + 1107\, c2^2$$

$$- 108)\ _Z^4 + (-8748\, c2^6 + 15984\, c2^4 - 2376\, c2^2)\ _Z^3 + (2916\, c2^8 - 13986\, c2^6$$

$$- 27810\, c2^4 + 4266\, c2^2)\ _Z^2 + (-2916\, c2^8 + 18360\, c2^6 + 18360\, c2^4 - 2916\, c2^2)\ _Z$$

$$+ 729\, c2^{10} - 9126\, c2^8 + 8851\, c2^6 - 9126\, c2^4 + 729\, c2^2, index = real_3)\ ], \left[0 < c2 \wedge c2\right.$$

$$< \frac{\sqrt{3}}{18}, RootOf((729\, c2^2 - 108)\ _Z^8 + (-2916\, c2^2 + 432)\ _Z^7 + (2916\, c2^4$$

$$+ 4050\, c2^2 - 648)\ _Z^6 + (-8748\, c2^4 - 1944\, c2^2 + 432)\ _Z^5 + (4374\, c2^6 - 702\, c2^4$$

$$+ 1107\, c2^2 - 108)\ _Z^4 + (-8748\, c2^6 + 15984\, c2^4 - 2376\, c2^2)\ _Z^3 + (2916\, c2^8$$

$$- 13986\, c2^6 - 27810\, c2^4 + 4266\, c2^2)\ _Z^2 + (-2916\, c2^8 + 18360\, c2^6 + 18360\, c2^4$$

$$- 2916\, c2^2)\ _Z + 729\, c2^{10} - 9126\, c2^8 + 8851\, c2^6 - 9126\, c2^4 + 729\, c2^2, index = real_3)$$

$$< c1 \wedge c1 < RootOf\big((729\, c2^2 - 108)\ _Z^8 + (-2916\, c2^2 + 432)\ _Z^7 + (2916\, c2^4$$

$$+ 4050\, c2^2 - 648)\ _Z^6 + (-8748\, c2^4 - 1944\, c2^2 + 432)\ _Z^5 + (4374\, c2^6 - 702\, c2^4$$

$$+ 1107\, c2^2 - 108)\ _Z^4 + (-8748\, c2^6 + 15984\, c2^4 - 2376\, c2^2)\ _Z^3 + (2916\, c2^8$$

$$- 13986\, c2^6 - 27810\, c2^4 + 4266\, c2^2)\ _Z^2 + (-2916\, c2^8 + 18360\, c2^6 + 18360\, c2^4$$

$$- 2916\, c2^2)\ _Z + 729\, c2^{10} - 9126\, c2^8 + 8851\, c2^6 - 9126\, c2^4 + 729\, c2^2, index$$

$$= real_4)\big], \Big[0 < c2 \wedge c2 < \frac{\sqrt{3}}{18}, c1 = RootOf\big((729\, c2^2 - 108)\ _Z^8 + (-2916\, c2^2$$

$$+ 432)\ _Z^7 + (2916\, c2^4 + 4050\, c2^2 - 648)\ _Z^6 + (-8748\, c2^4 - 1944\, c2^2$$

$$+ 432)\ _Z^5 + (4374\, c2^6 - 702\, c2^4 + 1107\, c2^2 - 108)\ _Z^4 + (-8748\, c2^6$$

$$+ 15984\, c2^4 - 2376\, c2^2)\ _Z^3 + (2916\, c2^8 - 13986\, c2^6 - 27810\, c2^4 + 4266\, c2^2)\ _Z^2$$

$$+ (-2916\, c2^8 + 18360\, c2^6 + 18360\, c2^4 - 2916\, c2^2)\ _Z + 729\, c2^{10} - 9126\, c2^8$$

$$+ 8851\, c2^6 - 9126\, c2^4 + 729\, c2^2, index = real_4)\big], \Big[0 < c2 \wedge c2 < \frac{\sqrt{3}}{18},$$

$$RootOf\big((729\, c2^2 - 108)\ _Z^8 + (-2916\, c2^2 + 432)\ _Z^7 + (2916\, c2^4 + 4050\, c2^2$$

$$- 648)\ _Z^6 + (-8748\, c2^4 - 1944\, c2^2 + 432)\ _Z^5 + (4374\, c2^6 - 702\, c2^4 + 1107\, c2^2$$

$$- 108)\ _Z^4 + (-8748\, c2^6 + 15984\, c2^4 - 2376\, c2^2)\ _Z^3 + (2916\, c2^8 - 13986\, c2^6$$

$$- 27810\, c2^4 + 4266\, c2^2)\ _Z^2 + (-2916\, c2^8 + 18360\, c2^6 + 18360\, c2^4 - 2916\, c2^2)\ _Z$$

$$+ 729\, c2^{10} - 9126\, c2^8 + 8851\, c2^6 - 9126\, c2^4 + 729\, c2^2, index = real_4) < c1\big], \Big[c2$$

$$= \frac{\sqrt{3}}{18}, c1 < \frac{1}{2} - \frac{4\sqrt{5}}{9}\Big], \Big[c2 = \frac{\sqrt{3}}{18}, c1 = \frac{1}{2} - \frac{4\sqrt{5}}{9}\Big], \Big[c2 = \frac{\sqrt{3}}{18}, \frac{1}{2}$$

$$-\frac{4\sqrt{5}}{9} < c1 \wedge c1 < \frac{1}{2}\Big], \Big[c2 = \frac{\sqrt{3}}{18}, c1 = \frac{1}{2}\Big], \Big[c2 = \frac{\sqrt{3}}{18}, \frac{1}{2} < c1 \wedge c1 < \frac{1}{2}$$

$$+\frac{4\sqrt{5}}{9}\Big], \Big[c2 = \frac{\sqrt{3}}{18}, c1 = \frac{1}{2} + \frac{4\sqrt{5}}{9}\Big], \Big[c2 = \frac{\sqrt{3}}{18}, \frac{1}{2} + \frac{4\sqrt{5}}{9} < c1\Big], \Big[\frac{\sqrt{3}}{18}$$

$$< c2 \wedge c2 < \frac{3\sqrt{3}}{14}, c1 < RootOf\big((729\,c2^2 - 108)\,_Z^8 + (-2916\,c2^2 + 432)\,_Z^7$$

$$+ (2916\,c2^4 + 4050\,c2^2 - 648)\,_Z^6 + (-8748\,c2^4 - 1944\,c2^2 + 432)\,_Z^5$$

$$+ (4374\,c2^6 - 702\,c2^4 + 1107\,c2^2 - 108)\,_Z^4 + (-8748\,c2^6 + 15984\,c2^4$$

$$- 2376\,c2^2)\,_Z^3 + (2916\,c2^8 - 13986\,c2^6 - 27810\,c2^4 + 4266\,c2^2)\,_Z^2 + ($$

$$-2916\,c2^8 + 18360\,c2^6 + 18360\,c2^4 - 2916\,c2^2)\,_Z + 729\,c2^{10} - 9126\,c2^8 + 8851\,c2^6$$

$$- 9126\,c2^4 + 729\,c2^2, index = real_1\big)\Big], \Big[\frac{\sqrt{3}}{18} < c2 \wedge c2 < \frac{3\sqrt{3}}{14}, c1$$

$$= RootOf\big((729\,c2^2 - 108)\,_Z^8 + (-2916\,c2^2 + 432)\,_Z^7 + (2916\,c2^4 + 4050\,c2^2$$

$$- 648)\,_Z^6 + (-8748\,c2^4 - 1944\,c2^2 + 432)\,_Z^5 + (4374\,c2^6 - 702\,c2^4 + 1107\,c2^2$$

$$- 108)\,_Z^4 + (-8748\,c2^6 + 15984\,c2^4 - 2376\,c2^2)\,_Z^3 + (2916\,c2^8 - 13986\,c2^6$$

$$- 27810\,c2^4 + 4266\,c2^2)\,_Z^2 + (-2916\,c2^8 + 18360\,c2^6 + 18360\,c2^4 - 2916\,c2^2)\,_Z$$

$$+ 729\,c2^{10} - 9126\,c2^8 + 8851\,c2^6 - 9126\,c2^4 + 729\,c2^2, index = real_1\big)\Big], \Big[\frac{\sqrt{3}}{18} < c2$$

$$\wedge c2 < \frac{3\sqrt{3}}{14}, RootOf\big((729\,c2^2 - 108)\,_Z^8 + (-2916\,c2^2 + 432)\,_Z^7 + (2916\,c2^4$$

$$+ 4050\,c2^2 - 648)\,_Z^6 + (-8748\,c2^4 - 1944\,c2^2 + 432)\,_Z^5 + (4374\,c2^6 - 702\,c2^4$$

$$+ 1107\,c2^2 - 108)\,_Z^4 + (-8748\,c2^6 + 15984\,c2^4 - 2376\,c2^2)\,_Z^3 + (2916\,c2^8$$

$$- 13986\,c2^6 - 27810\,c2^4 + 4266\,c2^2)\,_Z^2 + (-2916\,c2^8 + 18360\,c2^6 + 18360\,c2^4$$

$$- 2916\,c2^2)\,_Z + 729\,c2^{10} - 9126\,c2^8 + 8851\,c2^6 - 9126\,c2^4 + 729\,c2^2, index = real_1\big)$$

$< c1 \wedge c1 < RootOf\left(\left(729\, c2^2 - 108\right) _Z^8 + \left(-2916\, c2^2 + 432\right) _Z^7 + \left(2916\, c2^4\right.\right.$

$+ 4050\, c2^2 - 648\big) _Z^6 + \left(-8748\, c2^4 - 1944\, c2^2 + 432\right) _Z^5 + \left(4374\, c2^6 - 702\, c2^4\right.$

$+ 1107\, c2^2 - 108\big) _Z^4 + \left(-8748\, c2^6 + 15984\, c2^4 - 2376\, c2^2\right) _Z^3 + \left(2916\, c2^8\right.$

$- 13986\, c2^6 - 27810\, c2^4 + 4266\, c2^2\big) _Z^2 + \left(-2916\, c2^8 + 18360\, c2^6 + 18360\, c2^4\right.$

$- 2916\, c2^2\big) _Z + 729\, c2^{10} - 9126\, c2^8 + 8851\, c2^6 - 9126\, c2^4 + 729\, c2^2, index$

$= real_2\big)\Big], \left[\frac{\sqrt{3}}{18} < c2 \wedge c2 < \frac{3\sqrt{3}}{14}, c1 = RootOf\left(\left(729\, c2^2 - 108\right) _Z^8 + \left(\right.\right.\right.$

$-2916\, c2^2 + 432\big) _Z^7 + \left(2916\, c2^4 + 4050\, c2^2 - 648\right) _Z^6 + \left(-8748\, c2^4 - 1944\, c2^2\right.$

$+ 432\big) _Z^5 + \left(4374\, c2^6 - 702\, c2^4 + 1107\, c2^2 - 108\right) _Z^4 + \left(-8748\, c2^6\right.$

$+ 15984\, c2^4 - 2376\, c2^2\big) _Z^3 + \left(2916\, c2^8 - 13986\, c2^6 - 27810\, c2^4 + 4266\, c2^2\right) _Z^2$

$+ \left(-2916\, c2^8 + 18360\, c2^6 + 18360\, c2^4 - 2916\, c2^2\right) _Z + 729\, c2^{10} - 9126\, c2^8$

$+ 8851\, c2^6 - 9126\, c2^4 + 729\, c2^2, index = real_2\big)\Big], \left[\frac{\sqrt{3}}{18} < c2 \wedge c2 < \frac{3\sqrt{3}}{14},\right.$

$RootOf\left(\left(729\, c2^2 - 108\right) _Z^8 + \left(-2916\, c2^2 + 432\right) _Z^7 + \left(2916\, c2^4 + 4050\, c2^2\right.\right.$

$- 648\big) _Z^6 + \left(-8748\, c2^4 - 1944\, c2^2 + 432\right) _Z^5 + \left(4374\, c2^6 - 702\, c2^4 + 1107\, c2^2\right.$

$- 108\big) _Z^4 + \left(-8748\, c2^6 + 15984\, c2^4 - 2376\, c2^2\right) _Z^3 + \left(2916\, c2^8 - 13986\, c2^6\right.$

$- 27810\, c2^4 + 4266\, c2^2\big) _Z^2 + \left(-2916\, c2^8 + 18360\, c2^6 + 18360\, c2^4 - 2916\, c2^2\right) _Z$

$+ 729\, c2^{10} - 9126\, c2^8 + 8851\, c2^6 - 9126\, c2^4 + 729\, c2^2, index = real_2\big) < c1 \wedge c1$

$< RootOf\left(\left(729\, c2^2 - 108\right) _Z^8 + \left(-2916\, c2^2 + 432\right) _Z^7 + \left(2916\, c2^4 + 4050\, c2^2\right.\right.$

$- 648\big) _Z^6 + \left(-8748\, c2^4 - 1944\, c2^2 + 432\right) _Z^5 + \left(4374\, c2^6 - 702\, c2^4 + 1107\, c2^2\right.$

$$- 108\big)\ _Z^4 + \big(-8748\, c2^6 + 15984\, c2^4 - 2376\, c2^2\big)\ _Z^3 + \big(2916\, c2^8 - 13986\, c2^6$$

$$- 27810\, c2^4 + 4266\, c2^2\big)\ _Z^2 + \big(-2916\, c2^8 + 18360\, c2^6 + 18360\, c2^4 - 2916\, c2^2\big)\ _Z$$

$$+ 729\, c2^{10} - 9126\, c2^8 + 8851\, c2^6 - 9126\, c2^4 + 729\, c2^2, index = real_3\big)\Big], \Big[\frac{\sqrt{3}}{18} < c2$$

$$\wedge\ c2 < \frac{3\sqrt{3}}{14}, c1 = RootOf\big(\big(729\, c2^2 - 108\big)\ _Z^8 + \big(-2916\, c2^2 + 432\big)\ _Z^7$$

$$+ \big(2916\, c2^4 + 4050\, c2^2 - 648\big)\ _Z^6 + \big(-8748\, c2^4 - 1944\, c2^2 + 432\big)\ _Z^5$$

$$+ \big(4374\, c2^6 - 702\, c2^4 + 1107\, c2^2 - 108\big)\ _Z^4 + \big(-8748\, c2^6 + 15984\, c2^4$$

$$- 2376\, c2^2\big)\ _Z^3 + \big(2916\, c2^8 - 13986\, c2^6 - 27810\, c2^4 + 4266\, c2^2\big)\ _Z^2 + \big($$

$$-2916\, c2^8 + 18360\, c2^6 + 18360\, c2^4 - 2916\, c2^2\big)\ _Z + 729\, c2^{10} - 9126\, c2^8 + 8851\, c2^6$$

$$- 9126\, c2^4 + 729\, c2^2, index = real_3\big)\Big], \Big[\frac{\sqrt{3}}{18} < c2 \wedge c2 < \frac{3\sqrt{3}}{14}, RootOf\big(\big(729\, c2^2$$

$$- 108\big)\ _Z^8 + \big(-2916\, c2^2 + 432\big)\ _Z^7 + \big(2916\, c2^4 + 4050\, c2^2 - 648\big)\ _Z^6 + \big($$

$$-8748\, c2^4 - 1944\, c2^2 + 432\big)\ _Z^5 + \big(4374\, c2^6 - 702\, c2^4 + 1107\, c2^2 - 108\big)\ _Z^4 + \big($$

$$-8748\, c2^6 + 15984\, c2^4 - 2376\, c2^2\big)\ _Z^3 + \big(2916\, c2^8 - 13986\, c2^6 - 27810\, c2^4$$

$$+ 4266\, c2^2\big)\ _Z^2 + \big(-2916\, c2^8 + 18360\, c2^6 + 18360\, c2^4 - 2916\, c2^2\big)\ _Z + 729\, c2^{10}$$

$$- 9126\, c2^8 + 8851\, c2^6 - 9126\, c2^4 + 729\, c2^2, index = real_3\big) < c1 \wedge c1$$

$$< RootOf\big(\big(729\, c2^2 - 108\big)\ _Z^8 + \big(-2916\, c2^2 + 432\big)\ _Z^7 + \big(2916\, c2^4 + 4050\, c2^2$$

$$- 648\big)\ _Z^6 + \big(-8748\, c2^4 - 1944\, c2^2 + 432\big)\ _Z^5 + \big(4374\, c2^6 - 702\, c2^4 + 1107\, c2^2$$

$$- 108\big)\ _Z^4 + \big(-8748\, c2^6 + 15984\, c2^4 - 2376\, c2^2\big)\ _Z^3 + \big(2916\, c2^8 - 13986\, c2^6$$

$$- 27810\, c2^4 + 4266\, c2^2\big)\ _Z^2 + \big(-2916\, c2^8 + 18360\, c2^6 + 18360\, c2^4 - 2916\, c2^2\big)\ _Z$$

$$+ 729\, c2^{10} - 9126\, c2^{8} + 8851\, c2^{6} - 9126\, c2^{4} + 729\, c2^{2}, index = real_4\big)\Big], \Big[\frac{\sqrt{3}}{18} < c2$$

$$\wedge\, c2 < \frac{3\sqrt{3}}{14}, c1 = RootOf\big(\big(729\, c2^{2} - 108\big)\, _Z^{8} + \big(-2916\, c2^{2} + 432\big)\, _Z^{7}$$

$$+ \big(2916\, c2^{4} + 4050\, c2^{2} - 648\big)\, _Z^{6} + \big(-8748\, c2^{4} - 1944\, c2^{2} + 432\big)\, _Z^{5}$$

$$+ \big(4374\, c2^{6} - 702\, c2^{4} + 1107\, c2^{2} - 108\big)\, _Z^{4} + \big(-8748\, c2^{6} + 15984\, c2^{4}$$

$$- 2376\, c2^{2}\big)\, _Z^{3} + \big(2916\, c2^{8} - 13986\, c2^{6} - 27810\, c2^{4} + 4266\, c2^{2}\big)\, _Z^{2} + \big($$

$$-2916\, c2^{8} + 18360\, c2^{6} + 18360\, c2^{4} - 2916\, c2^{2}\big)\, _Z + 729\, c2^{10} - 9126\, c2^{8} + 8851\, c2^{6}$$

$$- 9126\, c2^{4} + 729\, c2^{2}, index = real_4\big)\Big], \Big[\frac{\sqrt{3}}{18} < c2 \wedge c2 < \frac{3\sqrt{3}}{14}, RootOf\big(\big(729\, c2^{2}$$

$$- 108\big)\, _Z^{8} + \big(-2916\, c2^{2} + 432\big)\, _Z^{7} + \big(2916\, c2^{4} + 4050\, c2^{2} - 648\big)\, _Z^{6} + \big($$

$$-8748\, c2^{4} - 1944\, c2^{2} + 432\big)\, _Z^{5} + \big(4374\, c2^{6} - 702\, c2^{4} + 1107\, c2^{2} - 108\big)\, _Z^{4} + \big($$

$$-8748\, c2^{6} + 15984\, c2^{4} - 2376\, c2^{2}\big)\, _Z^{3} + \big(2916\, c2^{8} - 13986\, c2^{6} - 27810\, c2^{4}$$

$$+ 4266\, c2^{2}\big)\, _Z^{2} + \big(-2916\, c2^{8} + 18360\, c2^{6} + 18360\, c2^{4} - 2916\, c2^{2}\big)\, _Z + 729\, c2^{10}$$

$$- 9126\, c2^{8} + 8851\, c2^{6} - 9126\, c2^{4} + 729\, c2^{2}, index = real_4\big) < c1\Big], \Big[c2 = \frac{3\sqrt{3}}{14}, c1$$

$$< -\frac{13}{14}\Big], \Big[c2 = \frac{3\sqrt{3}}{14}, c1 = -\frac{13}{14}\Big], \Big[c2 = \frac{3\sqrt{3}}{14}, -\frac{13}{14} < c1 \wedge c1 < \frac{27}{14}\Big], \Big[c2$$

$$= \frac{3\sqrt{3}}{14}, c1 = \frac{27}{14}\Big], \Big[c2 = \frac{3\sqrt{3}}{14}, \frac{27}{14} < c1\Big], \Big[\frac{3\sqrt{3}}{14} < c2 \wedge c2 < \frac{2\sqrt{3}}{9}, c1$$

$$< RootOf\big(\big(729\, c2^{2} - 108\big)\, _Z^{8} + \big(-2916\, c2^{2} + 432\big)\, _Z^{7} + \big(2916\, c2^{4} + 4050\, c2^{2}$$

$$- 648\big)\, _Z^{6} + \big(-8748\, c2^{4} - 1944\, c2^{2} + 432\big)\, _Z^{5} + \big(4374\, c2^{6} - 702\, c2^{4} + 1107\, c2^{2}$$

$$- 108\big)\, _Z^{4} + \big(-8748\, c2^{6} + 15984\, c2^{4} - 2376\, c2^{2}\big)\, _Z^{3} + \big(2916\, c2^{8} - 13986\, c2^{6}$$

$$- 27810\, c2^{4} + 4266\, c2^{2}\big)\, _Z^{2} + \big(-2916\, c2^{8} + 18360\, c2^{6} + 18360\, c2^{4} - 2916\, c2^{2}\big)\, _Z$$

$$+ 729\, c2^{10} - 9126\, c2^{8} + 8851\, c2^{6} - 9126\, c2^{4} + 729\, c2^{2}, index = real_1\big)\Big], \Big[\frac{3\sqrt{3}}{14}$$

$$< c2 \wedge c2 < \frac{2\sqrt{3}}{9}, c1 = RootOf\big(\big(729\, c2^{2} - 108\big)\, _Z^{8} + \big(-2916\, c2^{2} + 432\big)\, _Z^{7}$$

$$+ \big(2916\, c2^{4} + 4050\, c2^{2} - 648\big)\, _Z^{6} + \big(-8748\, c2^{4} - 1944\, c2^{2} + 432\big)\, _Z^{5}$$

$$+ \big(4374\, c2^{6} - 702\, c2^{4} + 1107\, c2^{2} - 108\big)\, _Z^{4} + \big(-8748\, c2^{6} + 15984\, c2^{4}$$

$$- 2376\, c2^{2}\big)\, _Z^{3} + \big(2916\, c2^{8} - 13986\, c2^{6} - 27810\, c2^{4} + 4266\, c2^{2}\big)\, _Z^{2} + \big($$

$$-2916\, c2^{8} + 18360\, c2^{6} + 18360\, c2^{4} - 2916\, c2^{2}\big)\, _Z + 729\, c2^{10} - 9126\, c2^{8} + 8851\, c2^{6}$$

$$- 9126\, c2^{4} + 729\, c2^{2}, index = real_1\big)\Big], \Big[\frac{3\sqrt{3}}{14} < c2 \wedge c2 < \frac{2\sqrt{3}}{9},$$

$$RootOf\big(\big(729\, c2^{2} - 108\big)\, _Z^{8} + \big(-2916\, c2^{2} + 432\big)\, _Z^{7} + \big(2916\, c2^{4} + 4050\, c2^{2}$$

$$- 648\big)\, _Z^{6} + \big(-8748\, c2^{4} - 1944\, c2^{2} + 432\big)\, _Z^{5} + \big(4374\, c2^{6} - 702\, c2^{4} + 1107\, c2^{2}$$

$$- 108\big)\, _Z^{4} + \big(-8748\, c2^{6} + 15984\, c2^{4} - 2376\, c2^{2}\big)\, _Z^{3} + \big(2916\, c2^{8} - 13986\, c2^{6}$$

$$- 27810\, c2^{4} + 4266\, c2^{2}\big)\, _Z^{2} + \big(-2916\, c2^{8} + 18360\, c2^{6} + 18360\, c2^{4} - 2916\, c2^{2}\big)\, _Z$$

$$+ 729\, c2^{10} - 9126\, c2^{8} + 8851\, c2^{6} - 9126\, c2^{4} + 729\, c2^{2}, index = real_1\big) < c1 \wedge c1$$

$$< RootOf\big(\big(729\, c2^{2} - 108\big)\, _Z^{8} + \big(-2916\, c2^{2} + 432\big)\, _Z^{7} + \big(2916\, c2^{4} + 4050\, c2^{2}$$

$$- 648\big)\, _Z^{6} + \big(-8748\, c2^{4} - 1944\, c2^{2} + 432\big)\, _Z^{5} + \big(4374\, c2^{6} - 702\, c2^{4} + 1107\, c2^{2}$$

$$- 108\big)\, _Z^{4} + \big(-8748\, c2^{6} + 15984\, c2^{4} - 2376\, c2^{2}\big)\, _Z^{3} + \big(2916\, c2^{8} - 13986\, c2^{6}$$

$$- 27810\, c2^{4} + 4266\, c2^{2}\big)\, _Z^{2} + \big(-2916\, c2^{8} + 18360\, c2^{6} + 18360\, c2^{4} - 2916\, c2^{2}\big)\, _Z$$

$$+ 729\, c2^{10} - 9126\, c2^{8} + 8851\, c2^{6} - 9126\, c2^{4} + 729\, c2^{2}, index = real_2\big)\Big], \Big[\frac{3\sqrt{3}}{14}$$

$$< c2 \wedge c2 < \frac{2\sqrt{3}}{9}, c1 = RootOf\big(\big(729\, c2^{2} - 108\big)\, _Z^{8} + \big(-2916\, c2^{2} + 432\big)\, _Z^{7}$$

$$+ \left(2916\, c2^4 + 4050\, c2^2 - 648\right) _Z^6 + \left(-8748\, c2^4 - 1944\, c2^2 + 432\right) _Z^5$$

$$+ \left(4374\, c2^6 - 702\, c2^4 + 1107\, c2^2 - 108\right) _Z^4 + \left(-8748\, c2^6 + 15984\, c2^4$$

$$- 2376\, c2^2\right) _Z^3 + \left(2916\, c2^8 - 13986\, c2^6 - 27810\, c2^4 + 4266\, c2^2\right) _Z^2 + \left($$

$$-2916\, c2^8 + 18360\, c2^6 + 18360\, c2^4 - 2916\, c2^2\right) _Z + 729\, c2^{10} - 9126\, c2^8 + 8851\, c2^6$$

$$- 9126\, c2^4 + 729\, c2^2, index = real_2\Big)\Big], \left[\frac{3\sqrt{3}}{14} < c2 \wedge c2 < \frac{2\sqrt{3}}{9},\right.$$

$$RootOf\Big(\left(729\, c2^2 - 108\right) _Z^8 + \left(-2916\, c2^2 + 432\right) _Z^7 + \left(2916\, c2^4 + 4050\, c2^2\right.$$

$$- 648\Big) _Z^6 + \left(-8748\, c2^4 - 1944\, c2^2 + 432\right) _Z^5 + \left(4374\, c2^6 - 702\, c2^4 + 1107\, c2^2\right.$$

$$- 108\Big) _Z^4 + \left(-8748\, c2^6 + 15984\, c2^4 - 2376\, c2^2\right) _Z^3 + \left(2916\, c2^8 - 13986\, c2^6\right.$$

$$- 27810\, c2^4 + 4266\, c2^2\Big) _Z^2 + \left(-2916\, c2^8 + 18360\, c2^6 + 18360\, c2^4 - 2916\, c2^2\right) _Z$$

$$+ 729\, c2^{10} - 9126\, c2^8 + 8851\, c2^6 - 9126\, c2^4 + 729\, c2^2, index = real_2\Big) < c1 \wedge c1$$

$$< RootOf\Big(\left(729\, c2^2 - 108\right) _Z^8 + \left(-2916\, c2^2 + 432\right) _Z^7 + \left(2916\, c2^4 + 4050\, c2^2\right.$$

$$- 648\Big) _Z^6 + \left(-8748\, c2^4 - 1944\, c2^2 + 432\right) _Z^5 + \left(4374\, c2^6 - 702\, c2^4 + 1107\, c2^2\right.$$

$$- 108\Big) _Z^4 + \left(-8748\, c2^6 + 15984\, c2^4 - 2376\, c2^2\right) _Z^3 + \left(2916\, c2^8 - 13986\, c2^6\right.$$

$$- 27810\, c2^4 + 4266\, c2^2\Big) _Z^2 + \left(-2916\, c2^8 + 18360\, c2^6 + 18360\, c2^4 - 2916\, c2^2\right) _Z$$

$$+ 729\, c2^{10} - 9126\, c2^8 + 8851\, c2^6 - 9126\, c2^4 + 729\, c2^2, index = real_3\Big)\Big], \left[\frac{3\sqrt{3}}{14}\right.$$

$$< c2 \wedge c2 < \frac{2\sqrt{3}}{9}, c1 = RootOf\Big(\left(729\, c2^2 - 108\right) _Z^8 + \left(-2916\, c2^2 + 432\right) _Z^7$$

$$+ \left(2916\, c2^4 + 4050\, c2^2 - 648\right) _Z^6 + \left(-8748\, c2^4 - 1944\, c2^2 + 432\right) _Z^5$$

$$+ \left(4374\, c2^6 - 702\, c2^4 + 1107\, c2^2 - 108\right) _Z^4 + \left(-8748\, c2^6 + 15984\, c2^4$$

$$- 2376\, c2^2)\ _Z^3 + (2916\, c2^8 - 13986\, c2^6 - 27810\, c2^4 + 4266\, c2^2)\ _Z^2 + ($$

$$-2916\, c2^8 + 18360\, c2^6 + 18360\, c2^4 - 2916\, c2^2)\ _Z + 729\, c2^{10} - 9126\, c2^8 + 8851\, c2^6$$

$$- 9126\, c2^4 + 729\, c2^2, index = real_3)\ ], \left[\frac{3\sqrt{3}}{14} < c2 \wedge c2 < \frac{2\sqrt{3}}{9}, \right.$$

$$RootOf((729\, c2^2 - 108)\ _Z^8 + (-2916\, c2^2 + 432)\ _Z^7 + (2916\, c2^4 + 4050\, c2^2$$

$$- 648)\ _Z^6 + (-8748\, c2^4 - 1944\, c2^2 + 432)\ _Z^5 + (4374\, c2^6 - 702\, c2^4 + 1107\, c2^2$$

$$- 108)\ _Z^4 + (-8748\, c2^6 + 15984\, c2^4 - 2376\, c2^2)\ _Z^3 + (2916\, c2^8 - 13986\, c2^6$$

$$- 27810\, c2^4 + 4266\, c2^2)\ _Z^2 + (-2916\, c2^8 + 18360\, c2^6 + 18360\, c2^4 - 2916\, c2^2)\ _Z$$

$$+ 729\, c2^{10} - 9126\, c2^8 + 8851\, c2^6 - 9126\, c2^4 + 729\, c2^2, index = real_3) < c1 \wedge c1$$

$$< RootOf((729\, c2^2 - 108)\ _Z^8 + (-2916\, c2^2 + 432)\ _Z^7 + (2916\, c2^4 + 4050\, c2^2$$

$$- 648)\ _Z^6 + (-8748\, c2^4 - 1944\, c2^2 + 432)\ _Z^5 + (4374\, c2^6 - 702\, c2^4 + 1107\, c2^2$$

$$- 108)\ _Z^4 + (-8748\, c2^6 + 15984\, c2^4 - 2376\, c2^2)\ _Z^3 + (2916\, c2^8 - 13986\, c2^6$$

$$- 27810\, c2^4 + 4266\, c2^2)\ _Z^2 + (-2916\, c2^8 + 18360\, c2^6 + 18360\, c2^4 - 2916\, c2^2)\ _Z$$

$$+ 729\, c2^{10} - 9126\, c2^8 + 8851\, c2^6 - 9126\, c2^4 + 729\, c2^2, index = real_4)\ ], \left[\frac{3\sqrt{3}}{14} \right.$$

$$< c2 \wedge c2 < \frac{2\sqrt{3}}{9}, c1 = RootOf((729\, c2^2 - 108)\ _Z^8 + (-2916\, c2^2 + 432)\ _Z^7$$

$$+ (2916\, c2^4 + 4050\, c2^2 - 648)\ _Z^6 + (-8748\, c2^4 - 1944\, c2^2 + 432)\ _Z^5$$

$$+ (4374\, c2^6 - 702\, c2^4 + 1107\, c2^2 - 108)\ _Z^4 + (-8748\, c2^6 + 15984\, c2^4$$

$$- 2376\, c2^2)\ _Z^3 + (2916\, c2^8 - 13986\, c2^6 - 27810\, c2^4 + 4266\, c2^2)\ _Z^2 + ($$

$$-2916\, c2^8 + 18360\, c2^6 + 18360\, c2^4 - 2916\, c2^2)\ _Z + 729\, c2^{10} - 9126\, c2^8 + 8851\, c2^6$$

$$-9126\,c2^4+729\,c2^2,\ index=real_4\big)\Big],\ \Big[\frac{3\sqrt{3}}{14}<c2\wedge c2<\frac{2\sqrt{3}}{9},$$

$$RootOf\big((729\,c2^2-108)\,_Z^8+(-2916\,c2^2+432)\,_Z^7+(2916\,c2^4+4050\,c2^2$$

$$-648)\,_Z^6+(-8748\,c2^4-1944\,c2^2+432)\,_Z^5+(4374\,c2^6-702\,c2^4+1107\,c2^2$$

$$-108)\,_Z^4+(-8748\,c2^6+15984\,c2^4-2376\,c2^2)\,_Z^3+(2916\,c2^8-13986\,c2^6$$

$$-27810\,c2^4+4266\,c2^2)\,_Z^2+(-2916\,c2^8+18360\,c2^6+18360\,c2^4-2916\,c2^2)\,_Z$$

$$+729\,c2^{10}-9126\,c2^8+8851\,c2^6-9126\,c2^4+729\,c2^2,\ index=real_4\big)<c1\Big],\ \Big[c2$$

$$=\frac{2\sqrt{3}}{9},\ c1<\frac{1}{2}-\frac{5\sqrt{3}}{6}\Big],\ \Big[c2=\frac{2\sqrt{3}}{9},\ c1=\frac{1}{2}-\frac{5\sqrt{3}}{6}\Big],\ \Big[c2=\frac{2\sqrt{3}}{9},\ \frac{1}{2}$$

$$-\frac{5\sqrt{3}}{6}<c1\wedge c1<\frac{1}{2}+\frac{5\sqrt{3}}{6}\Big],\ \Big[c2=\frac{2\sqrt{3}}{9},\ c1=\frac{1}{2}+\frac{5\sqrt{3}}{6}\Big],\ \Big[c2$$

$$=\frac{2\sqrt{3}}{9},\ \frac{1}{2}+\frac{5\sqrt{3}}{6}<c1\Big],\ \Big[\frac{2\sqrt{3}}{9}<c2\wedge c2<\frac{\sqrt{3}}{2},\ c1<RootOf\big((729\,c2^2$$

$$-108)\,_Z^8+(-2916\,c2^2+432)\,_Z^7+(2916\,c2^4+4050\,c2^2-648)\,_Z^6+($$

$$-8748\,c2^4-1944\,c2^2+432)\,_Z^5+(4374\,c2^6-702\,c2^4+1107\,c2^2-108)\,_Z^4+($$

$$-8748\,c2^6+15984\,c2^4-2376\,c2^2)\,_Z^3+(2916\,c2^8-13986\,c2^6-27810\,c2^4$$

$$+4266\,c2^2)\,_Z^2+(-2916\,c2^8+18360\,c2^6+18360\,c2^4-2916\,c2^2)\,_Z+729\,c2^{10}$$

$$-9126\,c2^8+8851\,c2^6-9126\,c2^4+729\,c2^2,\ index=real_1\big)\Big],\ \Big[\frac{2\sqrt{3}}{9}<c2\wedge c2$$

$$<\frac{\sqrt{3}}{2},\ c1=RootOf\big((729\,c2^2-108)\,_Z^8+(-2916\,c2^2+432)\,_Z^7+(2916\,c2^4$$

$$+4050\,c2^2-648)\,_Z^6+(-8748\,c2^4-1944\,c2^2+432)\,_Z^5+(4374\,c2^6-702\,c2^4$$

$$+1107\,c2^2-108)\,_Z^4+(-8748\,c2^6+15984\,c2^4-2376\,c2^2)\,_Z^3+(2916\,c2^8$$

$$-13986\,c2^6-27810\,c2^4+4266\,c2^2)\,_Z^2+(-2916\,c2^8+18360\,c2^6+18360\,c2^4$$

$$- 2916\, c2^2)\ _Z + 729\, c2^{10} - 9126\, c2^8 + 8851\, c2^6 - 9126\, c2^4 + 729\, c2^2, index$$

$$= real_1)], \left[\frac{2\sqrt{3}}{9} < c2 \wedge c2 < \frac{\sqrt{3}}{2}, RootOf\big((729\, c2^2 - 108)\ _Z^8 + (-2916\, c2^2$$

$$+ 432)\ _Z^7 + (2916\, c2^4 + 4050\, c2^2 - 648)\ _Z^6 + (-8748\, c2^4 - 1944\, c2^2$$

$$+ 432)\ _Z^5 + (4374\, c2^6 - 702\, c2^4 + 1107\, c2^2 - 108)\ _Z^4 + (-8748\, c2^6$$

$$+ 15984\, c2^4 - 2376\, c2^2)\ _Z^3 + (2916\, c2^8 - 13986\, c2^6 - 27810\, c2^4 + 4266\, c2^2)\ _Z^2$$

$$+ (-2916\, c2^8 + 18360\, c2^6 + 18360\, c2^4 - 2916\, c2^2)\ _Z + 729\, c2^{10} - 9126\, c2^8$$

$$+ 8851\, c2^6 - 9126\, c2^4 + 729\, c2^2, index = real_1 \big) < c1 \wedge c1 < RootOf\big((729\, c2^2$$

$$- 108)\ _Z^8 + (-2916\, c2^2 + 432)\ _Z^7 + (2916\, c2^4 + 4050\, c2^2 - 648)\ _Z^6 + ($$

$$-8748\, c2^4 - 1944\, c2^2 + 432)\ _Z^5 + (4374\, c2^6 - 702\, c2^4 + 1107\, c2^2 - 108)\ _Z^4 + ($$

$$-8748\, c2^6 + 15984\, c2^4 - 2376\, c2^2)\ _Z^3 + (2916\, c2^8 - 13986\, c2^6 - 27810\, c2^4$$

$$+ 4266\, c2^2)\ _Z^2 + (-2916\, c2^8 + 18360\, c2^6 + 18360\, c2^4 - 2916\, c2^2)\ _Z + 729\, c2^{10}$$

$$- 9126\, c2^8 + 8851\, c2^6 - 9126\, c2^4 + 729\, c2^2, index = real_2 \big)], \left[\frac{2\sqrt{3}}{9} < c2 \wedge c2$$

$$< \frac{\sqrt{3}}{2}, c1 = RootOf\big((729\, c2^2 - 108)\ _Z^8 + (-2916\, c2^2 + 432)\ _Z^7 + (2916\, c2^4$$

$$+ 4050\, c2^2 - 648)\ _Z^6 + (-8748\, c2^4 - 1944\, c2^2 + 432)\ _Z^5 + (4374\, c2^6 - 702\, c2^4$$

$$+ 1107\, c2^2 - 108)\ _Z^4 + (-8748\, c2^6 + 15984\, c2^4 - 2376\, c2^2)\ _Z^3 + (2916\, c2^8$$

$$- 13986\, c2^6 - 27810\, c2^4 + 4266\, c2^2)\ _Z^2 + (-2916\, c2^8 + 18360\, c2^6 + 18360\, c2^4$$

$$- 2916\, c2^2)\ _Z + 729\, c2^{10} - 9126\, c2^8 + 8851\, c2^6 - 9126\, c2^4 + 729\, c2^2, index$$

$$= real_2 \big)], \left[\frac{2\sqrt{3}}{9} < c2 \wedge c2 < \frac{\sqrt{3}}{2}, RootOf\big((729\, c2^2 - 108)\ _Z^8 + (-2916\, c2^2$$

$$+ 432)\ _Z^7 + (2916\, c2^4 + 4050\, c2^2 - 648)\ _Z^6 + (-8748\, c2^4 - 1944\, c2^2$$

$$+ 432)\ _Z^5 + (4374\, c2^6 - 702\, c2^4 + 1107\, c2^2 - 108)\ _Z^4 + (-8748\, c2^6$$

$$+ 15984\, c2^4 - 2376\, c2^2)\ _Z^3 + (2916\, c2^8 - 13986\, c2^6 - 27810\, c2^4 + 4266\, c2^2)\ _Z^2$$

$$+ (-2916\, c2^8 + 18360\, c2^6 + 18360\, c2^4 - 2916\, c2^2)\ _Z + 729\, c2^{10} - 9126\, c2^8$$

$$+ 8851\, c2^6 - 9126\, c2^4 + 729\, c2^2, index = real_2) < c1\Big], \Big[c2 = \frac{\sqrt{3}}{2}, c1 < \frac{1}{2}$$

$$- \frac{4\sqrt{5}}{5}\Big], \Big[c2 = \frac{\sqrt{3}}{2}, c1 = \frac{1}{2} - \frac{4\sqrt{5}}{5}\Big], \Big[c2 = \frac{\sqrt{3}}{2}, \frac{1}{2} - \frac{4\sqrt{5}}{5} < c1 \wedge c1$$

$$< \frac{1}{2}\Big], \Big[c2 = \frac{\sqrt{3}}{2}, c1 = \frac{1}{2}\Big], \Big[c2 = \frac{\sqrt{3}}{2}, \frac{1}{2} < c1 \wedge c1 < \frac{1}{2} + \frac{4\sqrt{5}}{5}\Big], \Big[c2$$

$$= \frac{\sqrt{3}}{2}, c1 = \frac{1}{2} + \frac{4\sqrt{5}}{5}\Big], \Big[c2 = \frac{\sqrt{3}}{2}, \frac{1}{2} + \frac{4\sqrt{5}}{5} < c1\Big], \Big[\frac{\sqrt{3}}{2} < c2 \wedge c2$$

$$< 2\sqrt{3}, c1 < RootOf\big((729\, c2^2 - 108)\ _Z^8 + (-2916\, c2^2 + 432)\ _Z^7 + (2916\, c2^4$$

$$+ 4050\, c2^2 - 648)\ _Z^6 + (-8748\, c2^4 - 1944\, c2^2 + 432)\ _Z^5 + (4374\, c2^6 - 702\, c2^4$$

$$+ 1107\, c2^2 - 108)\ _Z^4 + (-8748\, c2^6 + 15984\, c2^4 - 2376\, c2^2)\ _Z^3 + (2916\, c2^8$$

$$- 13986\, c2^6 - 27810\, c2^4 + 4266\, c2^2)\ _Z^2 + (-2916\, c2^8 + 18360\, c2^6 + 18360\, c2^4$$

$$- 2916\, c2^2)\ _Z + 729\, c2^{10} - 9126\, c2^8 + 8851\, c2^6 - 9126\, c2^4 + 729\, c2^2, index$$

$$= real_1)\Big], \Big[\frac{\sqrt{3}}{2} < c2 \wedge c2 < 2\sqrt{3}, c1 = RootOf\big((729\, c2^2 - 108)\ _Z^8 + ($$

$$-2916\, c2^2 + 432)\ _Z^7 + (2916\, c2^4 + 4050\, c2^2 - 648)\ _Z^6 + (-8748\, c2^4 - 1944\, c2^2$$

$$+ 432)\ _Z^5 + (4374\, c2^6 - 702\, c2^4 + 1107\, c2^2 - 108)\ _Z^4 + (-8748\, c2^6$$

$$+ 15984\, c2^4 - 2376\, c2^2)\ _Z^3 + (2916\, c2^8 - 13986\, c2^6 - 27810\, c2^4 + 4266\, c2^2)\ _Z^2$$

$$+ (-2916\, c2^8 + 18360\, c2^6 + 18360\, c2^4 - 2916\, c2^2)\ _Z + 729\, c2^{10} - 9126\, c2^8$$

$$+ 8851\, c2^6 - 9126\, c2^4 + 729\, c2^2, index = real_1\big)\Big], \Big[\frac{\sqrt{3}}{2} < c2 \wedge c2 < 2\sqrt{3},$$

$$RootOf\big((729\, c2^2 - 108)\, _Z^8 + (-2916\, c2^2 + 432)\, _Z^7 + (2916\, c2^4 + 4050\, c2^2$$

$$- 648)\, _Z^6 + (-8748\, c2^4 - 1944\, c2^2 + 432)\, _Z^5 + (4374\, c2^6 - 702\, c2^4 + 1107\, c2^2$$

$$- 108)\, _Z^4 + (-8748\, c2^6 + 15984\, c2^4 - 2376\, c2^2)\, _Z^3 + (2916\, c2^8 - 13986\, c2^6$$

$$- 27810\, c2^4 + 4266\, c2^2)\, _Z^2 + (-2916\, c2^8 + 18360\, c2^6 + 18360\, c2^4 - 2916\, c2^2)\, _Z$$

$$+ 729\, c2^{10} - 9126\, c2^8 + 8851\, c2^6 - 9126\, c2^4 + 729\, c2^2, index = real_1\big) < c1 \wedge c1$$

$$< RootOf\big((729\, c2^2 - 108)\, _Z^8 + (-2916\, c2^2 + 432)\, _Z^7 + (2916\, c2^4 + 4050\, c2^2$$

$$- 648)\, _Z^6 + (-8748\, c2^4 - 1944\, c2^2 + 432)\, _Z^5 + (4374\, c2^6 - 702\, c2^4 + 1107\, c2^2$$

$$- 108)\, _Z^4 + (-8748\, c2^6 + 15984\, c2^4 - 2376\, c2^2)\, _Z^3 + (2916\, c2^8 - 13986\, c2^6$$

$$- 27810\, c2^4 + 4266\, c2^2)\, _Z^2 + (-2916\, c2^8 + 18360\, c2^6 + 18360\, c2^4 - 2916\, c2^2)\, _Z$$

$$+ 729\, c2^{10} - 9126\, c2^8 + 8851\, c2^6 - 9126\, c2^4 + 729\, c2^2, index = real_2\big)\Big], \Big[\frac{\sqrt{3}}{2} < c2$$

$$\wedge\, c2 < 2\sqrt{3}, c1 = RootOf\big((729\, c2^2 - 108)\, _Z^8 + (-2916\, c2^2 + 432)\, _Z^7$$

$$+ (2916\, c2^4 + 4050\, c2^2 - 648)\, _Z^6 + (-8748\, c2^4 - 1944\, c2^2 + 432)\, _Z^5$$

$$+ (4374\, c2^6 - 702\, c2^4 + 1107\, c2^2 - 108)\, _Z^4 + (-8748\, c2^6 + 15984\, c2^4$$

$$- 2376\, c2^2)\, _Z^3 + (2916\, c2^8 - 13986\, c2^6 - 27810\, c2^4 + 4266\, c2^2)\, _Z^2 + ($$

$$-2916\, c2^8 + 18360\, c2^6 + 18360\, c2^4 - 2916\, c2^2)\, _Z + 729\, c2^{10} - 9126\, c2^8 + 8851\, c2^6$$

$$- 9126\, c2^4 + 729\, c2^2, index = real_2\big)\Big], \Big[\frac{\sqrt{3}}{2} < c2 \wedge c2 < 2\sqrt{3}, RootOf\big((729\, c2^2$$

$$- 108)\, _Z^8 + (-2916\, c2^2 + 432)\, _Z^7 + (2916\, c2^4 + 4050\, c2^2 - 648)\, _Z^6 + ($$

$$-8748\, c2^4 - 1944\, c2^2 + 432)\, _Z^5 + (4374\, c2^6 - 702\, c2^4 + 1107\, c2^2 - 108)\, _Z^4 + ($$

$$-8748\, c2^6 + 15984\, c2^4 - 2376\, c2^2)\, _Z^3 + (2916\, c2^8 - 13986\, c2^6 - 27810\, c2^4$$

$$+ 4266\, c2^2)\, _Z^2 + (-2916\, c2^8 + 18360\, c2^6 + 18360\, c2^4 - 2916\, c2^2)\, _Z + 729\, c2^{10}$$

$$- 9126\, c2^8 + 8851\, c2^6 - 9126\, c2^4 + 729\, c2^2, index = real_2) < c1], \left[c2 = 2\sqrt{3}, c1 < \frac{1}{2}\right], \left[c2 = 2\sqrt{3}, c1 = \frac{1}{2}\right], \left[c2 = 2\sqrt{3}, \frac{1}{2} < c1\right], \left[2\sqrt{3} < c2, c1 = c1\right]\Big]$$

We proceed now to verify that the semialgebraic sets Ri satisfy hi^{-1}(Ri)=Li for i=1,2,3,4.

Case h1^{-1}(R1)=L1: A way to check this is by considering the list of equations and inequations below and checking that its only solutions in {c1, c2} coincide with L1 :

$$F1 := [7 \cdot a^4 + a^3 \cdot b + a^3 - 12 \cdot a^2 b^2 + 3\, a^2 b - 12\, a^2 + a \cdot b^3 + 3\, a \cdot b^2 + 3\, a \cdot b + a + 7\, b^4 + b^3 - 12\, b^2 + b + 7 = 0,\ (c1 - 1)^2 + c2^2 - a^2 = 0,\ c1^2 + c2^2 - b^2 = 0, a \geq 0, b \geq 0];$$

$$F1 := [7\, a^4 + a^3\, b - 12\, a^2\, b^2 + a\, b^3 + 7\, b^4 + a^3 + 3\, a^2\, b + 3\, a\, b^2 + b^3 - 12\, a^2 + 3\, a\, b - 12\, b^2 + a + b + 7 = 0, (c1 - 1)^2 + c2^2 - a^2 = 0, -b^2 + c1^2 + c2^2 = 0, 0 \leq a, 0 \leq b] \quad \textbf{(2.17)}$$

$solve(F1, [c1, c2]);$

$$[\ ] \quad \textbf{(2.18)}$$

This is not correct! We need the more powerful real algebraic tools provided by the SolveTools package:

$with(SolveTools) : L1 := SemiAlgebraic(F1, [c1, c2]) ;$

$$L1 := \begin{cases} \left[\left[c1 = \frac{1}{2}, c2 = -\frac{\sqrt{3}}{2}\right], \left[c1 = \frac{1}{2}, c2 = \frac{\sqrt{3}}{2}\right]\right] & b = 1 \wedge a = 1 \\ [\ ] & otherwise \end{cases} \quad \textbf{(2.19)}$$

Case h2^{-1}(R2)=L2: Now we look for solutions (c1,c2) satisfying

$$F2 := [7 \cdot a^4 + a^3 \cdot b + a^3 - 12 \cdot a^2 b^2 + 3\, a^2 b - 12\, a^2 + a \cdot b^3 + 3\, a \cdot b^2 + 3\, a \cdot b + a + 7\, b^4 + b^3 - 12\, b^2 + b + 7 = 0,\ (c1 - 1)^2 + c2^2 - a^2 = 0,\ c1^2 + c2^2 - b^2 = 0, a \leq 0, b \geq 0];$$

$$F2 := [7\, a^4 + a^3\, b - 12\, a^2\, b^2 + a\, b^3 + 7\, b^4 + a^3 + 3\, a^2\, b + 3\, a\, b^2 + b^3 - 12\, a^2 + 3\, a\, b - 12\, b^2 + a + b + 7 = 0, (c1 - 1)^2 + c2^2 - a^2 = 0, -b^2 + c1^2 + c2^2 = 0, a \leq 0, 0 \leq b] \quad \textbf{(2.20)}$$

We proceed similarly, but for clarity in the solution we will consider the variable b≥0 as a fixed parameter. Since b corresponds to the length of side AC, the set h2^{-1}({(a,b): a ≤0}) is the circunference with center at A=(0,0) of radius b, and we should obtain three intersection points of this circunference with L2, two on the semiplane c1>0 and one on c2≤0. For b=0 only one point should

appear, .

$L2 := SemiAlgebraic(F2, [c1, c2, a]);$

$$L2 := \left\{ \begin{array}{l} \left[[c1 = -b, c2 = 0, a = -b - 1], \left[c1 = RootOf\left(196_Z^3 + \left(-54\,b^2 - 276\,b - 54\right)_Z^2 + \left(27\,b^4 + \right.\right.\right.\right. \\ \\ \left[[c1 = -b, c2 = 0, a = -b - 1], \left[c1 = RootOf\left(196_Z^3 + \left(-54\,b^2 - 276\,b - 54\right)_Z^2 + \left(27\,b^4 + \right.\right.\right.\right. \end{array} \right.$$

Case h2^{-1}(R3)=L3: This case is analogous to the previous one, but we use a as parameter instead:

$$F3 := \left[7 \cdot a^4 + a^3 \cdot b + a^3 - 12 \cdot a^2 b^2 + 3\,a^2 b - 12\,a^2 + a \cdot b^3 + 3\,a \cdot b^2 + 3\,a \cdot b + a + 7\,b^4 + b^3 - 12\,b^2 + b + 7 = 0,\ (c1 - 1)^2 + c2^2 - a^2 = 0,\ c1^2 + c2^2 - b^2 = 0, a \geq 0, b \leq 0\right];$$

$$F3 := \left[7\,a^4 + a^3\,b - 12\,a^2\,b^2 + a\,b^3 + 7\,b^4 + a^3 + 3\,a^2\,b + 3\,a\,b^2 + b^3 - 12\,a^2 + 3\,a\,b - 12\,b^2 + a + b + 7 = 0, (c1 - 1)^2 + c2^2 - a^2 = 0, -b^2 + c1^2 + c2^2 = 0, 0 \leq a, b \leq 0\right] \quad \textbf{(2.22)}$$

$L3 := SemiAlgebraic(F3, [c1, c2, b]);$

$$L3 := \begin{cases} \left[[c1 = a + 1, c2 = 0, b = -a - 1], \left[c1 = RootOf\left(196\ _Z^3 + \left(54\ a^2 + 276\ a - 534\right)\ _Z^2 + \left(27\ a^4\right.\right.\right.\right. \\ \\ \left[[c1 = a + 1, c2 = 0, b = -a - 1], \left[c1 = RootOf\left(196\ _Z^3 + \left(54\ a^2 + 276\ a - 534\right)\ _Z^2 + \left(27\ a^4\right.\right.\right.\right. \end{cases}$$

Case h2^{-1}(R4)=L4: We analyze last case here, which is the most complex one. Here we use b as parameter, and notice that as b decreases from 0 to $-\infty$ the intersection of the correponding circunferences of radius b with L4 consists consecutively of 0, 3, 4, 2 and none points.

$$F4 := \left[7 \cdot a^4 + a^3 \cdot b + a^3 - 12 \cdot a^2 b^2 + 3\ a^2 b - 12\ a^2 + a \cdot b^3 + 3\ a \cdot b^2 + 3\ a \cdot b + a + 7\ b^4 + b^3 - 12\ b^2 + b + 7 = 0,\ (c1 - 1)^2 + c2^2 - a^2 = 0,\ c1^2 + c2^2 - b^2 = 0, a \le 0, b \le 0\right];$$

$$F4 := \left[7\ a^4 + b\ a^3 - 12\ a^2\ b^2 + a\ b^3 + 7\ b^4 + a^3 + 3\ b\ a^2 + 3\ a\ b^2 + b^3 - 12\ a^2 + 3\ b\ a - 12\ b^2 + a + b + 7 = 0, (c1 - 1)^2 + c2^2 - a^2 = 0, -b^2 + c1^2 + c2^2 = 0, a \le 0, b \le 0\right] \quad \textbf{(2.24)}$$

$$L4 := SemiAlgebraic(F4, [c1, c2, a]);$$

$$L4 := \left\{ \left[\left[c1 = \frac{\left(23949345\, RootOf\left(_Z^4 + 2\,_Z^3 - 5\,_Z^2 + 2\,_Z + 1, -0.2852..-0.2812\right)^3 - 36123102\, R\right.}{} \right. \right. \right.$$

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