Parametric Cubic Intersection

Jeremy Wood

November 22, 2014

Given two parametric curves:

$$x_1(t_1) = a_{x1} t_1^3 + b_{x1} t_1^2 + c_{x_1} t_1 + d_{x1}$$

$$y_1(t_1) = a_{y1} t_1^3 + b_{y1} t_1^2 + c_{y_1} t_1 + d_{y1}$$

$$x_2(t_2) = a_{x2} t_2^3 + b_{x2} t_2^2 + c_{x_2} t_2 + d_{x2}$$

$$y_2(t_2) = a_{y2} t_2^3 + b_{y2} t_2^2 + c_{y_2} t_2 + d_{y2}$$

This document outlines the derivation of the closed form polynomial that identifies where these two curves intersect.

The goal is to identify points that these curves have in common. So we need to identify where the coordinate (x_1, y_1) equals (x_2, y_2) . Algebraically this means we're looking at the following system (where $x_1 = x_2$ and $y_1 = y_2$):

$$a_{x1} t_1^3 + b_{x1} t_1^2 + c_{x_1} t_1 + d_{x1} = a_{x2} t_2^3 + b_{x2} t_2^2 + c_{x_2} t_2 + d_{x2} a_{y1} t_1^3 + b_{y1} t_1^2 + c_{y_1} t_1 + d_{y1} = a_{y2} t_2^3 + b_{y2} t_2^2 + c_{y_2} t_2 + d_{y2}$$

1 Cubic Formula

There are multiple ways to solve a cubic equation. This section derives the cubic formula we will use using the Tschirnhaus Transformation and Vieta's Substitution. Our initial equation is:

$$x^3 + bx^2 + cx + d = 0$$

1.1 Apply Tschirnhaus Transformation:

Apply the Tschirnhaus Transformation: $z = x + \frac{b}{3}$

$$x^{3} + b x^{2} + c x + d = 0$$
 (Given.)
$$(z - \frac{b}{3})^{3} + b (z - \frac{b}{3})^{2} + c (z - \frac{b}{3}) + d = 0$$
 Substitute $x = z - \frac{b}{3}$.
$$(z^{3} - 3z^{2} \frac{b}{3} + 3z \frac{b^{2}}{9} - \frac{b^{3}}{27}) + b (z^{2} - 2z \frac{b}{3} + \frac{b^{2}}{9}) + c (z - \frac{b}{3}) + d = 0$$
 Expand powers.
$$(z^{3} - z^{2}b + z \frac{b^{2}}{3} - \frac{b^{3}}{27}) + (z^{2}b - 2z \frac{b^{2}}{3} + \frac{b^{3}}{9}) + (z c - c \frac{b}{3}) + d = 0$$
 Distribute coefficients.
$$z^{3} + z^{2} (-b + b) + z (\frac{b^{2}}{3} - 2\frac{b^{2}}{3} + c) + (\frac{-b^{3}}{27} + \frac{b^{3}}{9} - c \frac{b}{3} + d) = 0$$
 Factor z terms.
$$z^{3} + z (\frac{-b^{2}}{3} + c) + (\frac{2b^{3}}{27} - \frac{bc}{3} + d) = 0$$
 Simplify.

Now we have a depressed cubic (that is: there is no term z^2). Let's introduce a couple of new variables to clean up the equation:

$$C = \frac{-b^2}{3} + c$$

$$D = \frac{2b^3}{27} - \frac{bc}{3} + d$$

$$z^3 + Cz + D = 0$$

1.2 Use Vieta's substitution:

Use Vieta's substitution: $z = w - \frac{C}{3w}$

Towards the end of this derivation we introduce j and k, which will prove helpful later on.

$$z^{3} + Cz + D = 0$$
 (Given.)
$$(w - \frac{C}{3w})^{3} + C(w - \frac{C}{3w}) + D = 0$$
 Substitute $z = w - \frac{C}{3w}$.
$$(w^{3} - 3w^{2} \frac{C}{3w} + 3w \frac{C^{2}}{9w^{2}} - \frac{C^{3}}{27w^{3}}) + C(w - \frac{C}{3w}) + D = 0$$
 Expand powers.
$$w^{3} - wC + \frac{C^{2}}{3w} - \frac{C^{3}}{27w^{3}} + wC - \frac{C^{2}}{3w} + D = 0$$
 Remove parentheses.
$$w^{3} + D - \frac{C^{3}}{27w^{3}} = 0$$
 Simplify.
$$w^{6} + Dw^{3} - \frac{C^{3}}{27} = 0$$
 Multiply by w^{3} Apply the quadratic formula.
$$w^{3} = \frac{-D \pm \sqrt{D^{2} + 4C^{3}/27}}{2}$$
 Simplify.
$$j = \pm \sqrt{\frac{D^{2}}{4} + \frac{C^{3}}{27}}$$
 Define j .
$$k = \frac{-D}{2} + j$$
 Define k . Substitute k . Substitute k . Solve for w .

State x in terms of w:

$$z = w - \frac{C}{3w}$$
 (Given.)
$$z = x + \frac{b}{3}$$
 (Given.)
$$x + \frac{b}{3} = w - \frac{C}{3w}$$
 Transitive property.
$$x = w - \frac{C}{3w} - \frac{b}{3}$$
 Subtract $\frac{b}{3}$.

2 Fractional Cubic Root Elimination

This section addresses an obstacle that will appear shortly. Here we eliminate the fractional roots in this equation:

$$c_1 k^{1/3} + c_2 k^{2/3} = z$$

(I'm not sure if this transformation has a more official name, but I'll refer to it here simply as "Fractional Cubic Root Elimination".)

$$c_1 k^{1/3} + c_2 k^{2/3} + c_3 = 0$$

$$c_1 k^{1/3} \left(1 + \frac{c_2}{c_1} k^{1/3}\right) = -c_3$$

$$1 + \frac{c_2}{c_1} k^{1/3} = \frac{-c_3}{c_1 k^{1/3}}$$

$$1 + 3 \frac{c_2}{c_1} k^{1/3} + 3 \frac{c_2^2}{c_1^2} k^{2/3} + \frac{c_2^3}{c_1^3} k = \frac{(-c_3)^3}{c_1^3 k}$$

$$c_1^3 k + 3 c_1^2 c_2 k^{4/3} + 3 c_1 c_2^2 k^{5/3} + c_2^3 k^2 = -c_3^3$$

$$3 c_1^2 c_2 k^{4/3} + 3 c_1 c_2^2 k^{5/3} = -c_3^3 - c_1^3 k - c_2^3 k^2$$

$$c_1 k^{1/3} + c_2 k^{2/3} = \frac{-c_3^3 - c_1^3 k - c_2^3 k^2}{3 c_1 c_2 k}$$

(Given.)

Factor the left-hand side by $c_1 k^{1/3}$.

Divide both sides by $c_1 k^{1/3}$.

Cube both sides of the equation.

Multiply both sides by c_1 3k .

Isolate fractional exponents.

Divide by $3c_1c_2k$.

The left-hand side of the last equation resembles to the left-hand of the first equation, so it follows that:

$$\frac{-c_3^{\ 3}-c_1^{\ 3}k-c_2^{\ 3}k^2}{3c_1c_2k} = -c_3$$

So when we encounter the first equation, we can replace it with this equivalent equation:

$$-c_3^{\ 3} - c_1^{\ 3} \, k - c_2^{\ 3} \, k^2 + 3 \, c_1 \, c_2 \, c_3 \, k = 0$$

3 Derivation

The previous two sections outlined formulas/transformations that will be used to address the original problem. This section details the actual derivation. The end goal is a single polynomial expression that identifies where two curves intersect, and the beginning equations are:

$$a_{x1} t_1^3 + b_{x1} t_1^2 + c_{x_1} t_1 + d_{x1} = a_{x2} t_2^3 + b_{x2} t_2^2 + c_{x_2} t_2 + d_{x2} a_{y1} t_1^3 + b_{y1} t_1^2 + c_{y_1} t_1 + d_{y1} = a_{y2} t_2^3 + b_{y2} t_2^2 + c_{y_2} t_2 + d_{y2}$$

$$a_{x1} t_1^3 + b_{x1} t_1^2 + c_{x1} t_1 + (d_{x1} - a_{x2} t_2^3 - b_{x2} t_2^2 - c_{x2} t_2 - d_{x2}) = 0$$

Introduce a few variables to simplify this equation:

$$a = \frac{b_{x_1}}{a_{x_1}}$$

$$b = \frac{c_{x_1}}{a_{x_1}}$$

$$c = \frac{d_{x_1}}{a_{x_1}} + \frac{-a_{x_2}t_2^3}{a_{x_1}} + \frac{-b_{x_2}t_2^2}{a_{x_1}} + \frac{-c_{x_2}t_2}{a_{x_1}} + \frac{-d_{x_2}t_2}{a_{x_1}}$$

$$t_1^3 + at_1^2 + bt_1 + c = 0$$

Apply a Tschirnhaus transform by substituting $t_1 = z + \frac{-a}{3}$: $z^3 + z(\frac{-a^2}{3} + b) + (\frac{2a^3}{27} + c + \frac{-ab}{3}) = 0$

Introduce a few more variables to simplify this equation:

$$p = \left(\frac{-a^2}{3} + b\right)$$

$$q = \left(\frac{2a^3}{27} + c + \frac{-ab}{3}\right) = 0$$

$$z^3 + nz + q = 0$$

Apply Vieta's Substitution, $z = m + \frac{-p}{3m}$: $m^3 + q + \frac{-p^3}{27} m^{-3} = 0$

Define
$$m = k^{1/3}$$
:
 $k + q + \frac{-p^3}{27} k^{-1} = 0$

Multiply by k to produce a simple quadratic equation:

$$k^2 + q k + \frac{-p^3}{27}$$

We can apply the quadratic formula to this equation to solve for k:

$$v = \frac{q^2}{4} + \frac{p^3}{27}$$
$$k = \frac{-q}{2} + v^{1/2}$$

Combine the definitions used for the Tschirnhaus transform, the Vieta substitution, and m to redefine t_1 :

$$t_1 = k^{1/3} + \frac{-a}{3} + \frac{-p}{3} k^{-1/3} = 0$$

Now reconsider the y-equation:

$$a_{u1} t_1^3 + b_{u1} t_1^2 + c_{u1} t_1 + (d_{u1} - a_{u2} t_2^3 - b_{u2} t_2^2 - c_{u2} t_2 - d_{u2}) = 0$$

Substitute in our new definition of t_1 :

Substitute in our new definition of
$$t_1$$
:
$$-a_{y2}\,t_2^{\ 3} + -b_{y2}\,t_2^{\ 2} + -c_{y2}\,t_2 + (d_{y1} - d_{y2} + \frac{-a^3\,a_{y1}}{27} + a_{y1}\,k + \frac{a^2\,b_{y1}}{9} + \frac{-2\,b_{y1}\,p}{3} + b_{y1}\,k^{2/3} + \frac{-a\,c_{y1}}{3} + c_{y1}\,k^{1/3} + \frac{2\,a\,a_{y1}\,p}{3} - a\,a_{y1}\,k^{2/3} + \frac{a^2\,a_{y1}\,k^{1/3}}{3} - a_{y1}\,k^{1/3}\,p + \frac{a_{y1}\,p^2}{3\,k^{1/3}} + \frac{-a_{y1}\,p^3}{27\,k} + \frac{-2\,a\,b_{y1}\,k^{1/3}}{3} + \frac{b_{y1}\,p^2}{9\,k^{2/3}} + \frac{-a\,a_{y1}\,p^2}{9\,k^{2/3}} + \frac{-a\,a_{y1}\,p^2}{9\,k^{2/3}} + \frac{-a\,a_{y1}\,p}{9\,k^{1/3}} + \frac{2\,a\,b_{y1}\,p}{9\,k^{1/3}} \right) = 0$$

However k is expressed as a cubic root, so we have to apply a fractional cubic root elimination. This means everything has to be cubed.

Then there is also a square root inside k, so we have to tease that out: so we'll have to square everything to resolve v.

We'll also have to apply all the substitutions we previously made to simplify this equation. The end result is an equation that is 42055-many terms long, so the next section is devoted simply to stating the c coefficients in this equation:

$$c_{18}\,t_{2}^{18} + c_{17}\,t_{2}^{17} + c_{16}\,t_{2}^{16} + c_{15}\,t_{2}^{15} + c_{14}\,t_{2}^{14} + c_{13}\,t_{2}^{13} + \ldots + c_{3}\,t_{2}^{3} + c_{2}\,t_{2}^{2} + c_{1}\,t_{2} + c_{0} = 0$$

In this equation all the c terms are expressed in terms of the constants (a_{x1}, b_{x1}, c_{x1}) etc.) used to define the two cubic parametric curves, so the only remaining variable is t₂.

4 Coefficient Definitions

This section states the definition of coefficients in this equation:

$$c_{18}\,t_{2}^{18} + c_{17}\,t_{2}^{17} + c_{16}\,t_{2}^{16} + c_{15}\,t_{2}^{15} + c_{14}\,t_{2}^{14} + c_{13}\,t_{2}^{13} + \dots + c_{3}\,t_{2}^{3} + c_{2}\,t_{2}^{2} + c_{1}\,t_{2} + c_{0} = 0$$

 $c_0 = (a_{x1} d_{y1} - a_{y1} d_{x1})^6 - 6 (a_{x1} d_{y1} - a_{y1} d_{x1})^5 (a_{x1} d_{y2} - a_{y1} d_{x2}) + (a_{x1} d_{y2} - a_{y1} d_{x2})^6 +$ $(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})^4\,(c_{x1}\,d_{y1}-c_{y1}\,d_{x1})^2+(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})^2\,(b_{x1}\,d_{y1}-b_{y1}\,d_{x1})^4+(a_{x1}\,c_{y1}-a_{y1}\,b_{x1})^2$ $a_{y1}\,c_{x1})^4\,(c_{x1}\,d_{y2}-c_{y1}\,d_{x2})^2+(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})^2\,(b_{x1}\,d_{y2}-b_{y1}\,d_{x2})^4-2\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})^4\,(c_{x1}\,d_{y1}-a_{y1}\,c_{x1})^4$ $c_{y1} d_{x1}) (c_{x1} d_{y2} - c_{y1} d_{x2}) - 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} d_{y1} - b_{y1} d_{x1})^3 (b_{x1} d_{y2} - b_{y1} d_{x2}) - 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} d_{y1} - b_{y1} d_{x1})^3 (b_{x1} d_{y2} - b_{y1} d_{x2}) - 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} d_{y1} - b_{y1} d_{x1})^3 (b_{x1} d_{y2} - b_{y1} d_{x2}) - 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} d_{y1} - b_{y1} d_{x1})^3 (b_{x1} d_{y2} - b_{y1} d_{x2}) - 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} d_{y1} - b_{y1} d_{x1})^3 (b_{x1} d_{y2} - b_{y1} d_{x2}) - 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} d_{y1} - b_{y1} d_{x1})^3 (b_{x1} d_{y2} - b_{y1} d_{x2}) - 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} d_{y1} - b_{y1} d_{x1})^3 (b_{x1} d_{y2} - b_{y1} d_{x2}) - 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} d_{y1} - b_{y1} d_{x1})^3 (b_{x1} d_{y2} - b_{y1} d_{x2}) - 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} d_{y1} - b_{y1} d_{x1})^3 (b_{x1} d_{y2} - b_{y1} d_{x2}) - 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} d_{y1} - b_{y1} d_{x1})^3 (b_{x1} d_{y2} - b_{y1} d_{x2}) - 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} d_{y1} - b_{y1} d_{x1})^3 (b_{x1} d_{y2} - b_{y1} d_{x2}) - 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} d_{y1} - b_{y1} d_{x1})^3 (b_{x1} d_{y2} - b_{y1} d_{x2}) - 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} d_{y1} - b_{y1} d_{x1})^3 (b_{x1} d_{y2} - b_{y1} d_{x2}) - 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} d_{y1} - b_{y1} d_{x1})^3 (b_{x1} d_{y2} - b_{y1} d_{x2}) - 4 (a_{x1} b_{y1} - a_{y1} b_{x1} + b_{y1} d_{x1})^3 (b_{x1} d_{x2} - b_{y1} d_{x2}) - 4 (a_{x1} b_{y1} - a_{y1} b_{x1} + b_{y1} d_{x2}) - 4 (a_{x1} b_{y1} - a_{y1} b_{x1} + b_{y1} d_{x2}) - 4 (a_{x1} b_{y1} - a_{y1} b_{x1} + b_{y1} d_{x2}) - 4 (a_{x1} b_{y1} - a_{y1} b_{x1} + b_{y1} d_{x2}) - 4 (a_{x1} b_{y1} - a_{y1} b_{x1} + b_{y1} d_{x2}) - 4 (a_{x1} b_{y1} - a_{y1} b_{x1} + b_{y1} d_{x2}) - 4 (a_{x1} b_{y1} - a_{y1} b_{x1} + b_{y1} d_{x2}) - 4 (a_{x1} b_{y1} - a_{y1} b_{x1} + b_{y1} d_{x2}) - 4 (a_{x1} b_{y1} - a_{y1} b_{x1} +$ $4(a_{x1}b_{y1}-a_{y1}b_{x1})^{2}(b_{x1}d_{y1}-b_{y1}d_{x1})(b_{x1}d_{y2}-b_{y1}d_{x2})^{3}-6(a_{x1}d_{y1}-a_{y1}d_{x1})(a_{x1}d_{y2}-b_{y1}d_{x2})^{3}$ $(a_{y1} d_{x2})^5 + 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} d_{y1} - b_{y1} d_{x1})^2 (b_{x1} d_{y2} - b_{y1} d_{x2})^2 + 15 (a_{x1} d_{y1} - a_{y1} d_{x1})^4 (a_{x1} d_{y2} - b_{y1} d_{x2})^2 + 15 (a_{x1} d_{y1} - a_{y1} d_{x1})^4 (a_{x1} d_{y2} - b_{y1} d_{x2})^2 + 10 (a_{x1} d_{y1} - a_{y1} d_{x1})^4 (a_{x1} d_{y2} - b_{y1} d_{x2})^2 + 10 (a_{x1} d_{y1} - a_{y1} d_{x1})^4 (a_{x1} d_{y2} - b_{y1} d_{x2})^2 + 10 (a_{x1} d_{y1} - a_{y1} d_{x1})^4 (a_{x1} d_{y2} - b_{y1} d_{x2})^2 + 10 (a_{x1} d_{y1} - a_{y1} d_{x1})^4 (a_{x1} d_{y2} - b_{y1} d_{x2})^2 + 10 (a_{x1} d_{y1} - a_{y1} d_{x1})^4 (a_{x1} d_{y2} - b_{y1} d_{x2})^2 + 10 (a_{x1} d_{y1} - a_{y1} d_{x1})^4 (a_{x1} d_{y2} - b_{y1} d_{x2})^2 + 10 (a_{x1} d_{y1} - a_{y1} d_{x1})^4 (a_{x1} d_{y2} - b_{y1} d_{x2})^2 + 10 (a_{x1} d_{y1} - a_{y1} d_{x1})^4 (a_{x1} d_{y2} - b_{y1} d_{x2})^4 + 10 (a_{x1} d_{y1} - a_{y1} d_{x1})^4 (a_{x1} d_{y2} - b_{y1} d_{x2})^4 + 10 (a_{x1} d_{y1} - a_{y1} d_{x1})^4 + 10 (a_{x1} d_{y1} - a_{$ $\begin{array}{l} a_{y1}\,d_{x2})^2 + 15\,(a_{x1}\,d_{y1} - a_{y1}\,d_{x1})^2\,(a_{x1}\,d_{y2} - a_{y1}\,d_{x2})^4 - 20\,(a_{x1}\,d_{y1} - a_{y1}\,d_{x1})^3\,(a_{x1}\,d_{y2} - a_{y1}\,d_{x2})^3 + (a_{x1}\,b_{y1} - a_{y1}\,b_{x1})^2\,(b_{x1}\,c_{y1} - b_{y1}\,c_{x1})^2\,(c_{x1}\,d_{y1} - c_{y1}\,d_{x1})^2 + (a_{x1}\,b_{y1} - a_{y1}\,b_{x1})^2\,(b_{x1}\,c_{y1} - a_{y1}\,b_{x1})^2\,(b$ $b_{y1} c_{x1})^2 (c_{x1} d_{y2} - c_{y1} d_{x2})^2 + 7 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (c_{x1} d_{y1} - c_{y1} d_{x1})^2 +$ $2\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{2}\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)^{2}\left(b_{x1}\,d_{y1}-b_{y1}\,d_{x1}\right)^{2}-1\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)^{4}\left(b_{x1}\,c_{y1}-a_{y1}\,d_{x1}\right)^{2}$ $b_{y1}\,c_{x1})^2 + 3\,(a_{x1}\,b_{y1} - a_{y1}\,b_{x1})^2\,(a_{x1}\,c_{y1} - a_{y1}\,c_{x1})^2\,(d_{x1}\,d_{y2} - d_{x2}\,d_{y1})^2 + 7\,(a_{x1}\,b_{y1} - a_{y1}\,b_{x1})^2\,(a_{x1}\,d_{y2} - a_{y1}\,b_{x1})^2\,(a_{x1}\,d_{y2$ $(a_{y1} d_{x2})^2 (c_{x1} d_{y2} - c_{y1} d_{x2})^2 + 2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (b_{x1} d_{y2} - b_{y1} d_{x2})^2 - (b_{x1} d_{y2} - b_{y1} d_{x2})^2 + 2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 + 2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 + 2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 + 2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 + 2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 + 2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 + 2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 + 2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 + 2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 + 2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 + 2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 + 2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 + 2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 + 2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 + 2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 + 2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 + 2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 + 2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 + 2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 + 2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 + 2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 + 2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 + 2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 + 2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 + 2 (a_{x1} c_{y1} - a_{y1} c_{y1} - a_{y1} c_{y1})^2 + 2 (a_{x1} c_{y1} - a_{y1} c_{y1} - a_{y1} c_{y1})^2 + 2 (a_{x1} c_$ $1 \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right)^4 \left(b_{x1} c_{y1} - b_{y1} c_{x1}\right)^2 + 2 \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right)^2 \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right)^3 \left(c_{x1} d_{y2} - a_{y1} d_{x2}\right)^3 + 2 \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right)^3 \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right)^3 + 2 \left(a_{x1} d_{y2} -$ $(c_{y1} d_{x2}) - 6 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (d_{x1} d_{y2} - d_{x2} d_{y1}) 8\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{2}\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)^{2}\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(c_{x1}\,d_{y1}-c_{y1}\,d_{x1}\right)+12\left(a_{x1}\,c_{y1}-a_{y1}\,d_{x2}\right)^{2}\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)^{2}\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)^{2}$ $(a_{y1} c_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (c_{x1} d_{y2} - c_{y1} d_{x2}) - 2 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} d_{y1} - a_{y1} c_{x1})^3 (a_{y1} d_{y2} - a_{y1} d_{y2}) - 2 (a_{y1} c_{y1} - a_{y1} c_{y1})^3 (a_{y1} d_{y1} - a_{y1} c_{y1})^3 (a_{y1} d_{y2} - a_{y1} d_{y2}) - 2 (a_{y1} c_{y1} - a_{y1} c_{y1})^3 (a_{y1} d_{y1} - a_{y1} c_{y1})^3 (a_{y1} d_{y2} - a_{y1} d_{y1})^3 (a_{y1} d_{y1} - a_{y1} c_{y1})^3 (a_{y1} d_{y1} - a_{y1} c_{y1} c_{y1})^3 (a_{y1} d_{y1} - a_{y1} c_{y1} c_{y1} c_{y1})^3 (a_{y1} d_{y1} - a_{y1} c_{y1} c_{y1}$ $(a_{y1} d_{x1})^2 (d_{x1} d_{y2} - d_{x2} d_{y1}) + 2 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (d_{x1} d_{y2} - d_{x2} d_{y1}) +$ $2(a_{x1}c_{y1} - a_{y1}c_{x1})^2(a_{x1}d_{y1} - a_{y1}d_{x1})^3(c_{x1}d_{y1} - c_{y1}d_{x1}) - 8(a_{x1}c_{y1} - a_{y1}c_{x1})^2(a_{x1}d_{y1} - a_{y1}c_{x1})^2$ $(a_{v1} d_{v1}) (a_{v1} d_{v2} - a_{v1} d_{v2})^2 (c_{v1} d_{v2} - c_{v1} d_{v2}) - 2 (a_{v1} b_{v1} - a_{v1} b_{v1}) (a_{v1} d_{v2} - a_{v1} d_{v2})^3 (b_{v1} d_{v2} - a_{v1} d_{v2})^3 (b_{v2} d_{v2} - a_{v1} d_{v2})^3 (b_{v2} d_{v2} - a_{v2$ $(b_{y1} d_{x2})^2 + 2 (a_{x1} d_{y2} - a_{y1} d_{x2})^5 (b_{x1} c_{y1} - b_{y1} c_{x1}) + 2 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^3 (b_{x1} d_{x1} (b_{y1} d_{x1})^2 + 6 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2})^4 (c_{x1} d_{y2} - c_{y1} d_{x2}) - 2 (a_{x1} d_{y1} - a_{y1} d_{x1})^5 (b_{x1} c_{y1} - a_{y1} d_{x2})^4 (c_{x1} d_{y2} - c_{y1} d_{x2})^4 (c_{x1} d_{y2} - c_{y1} d_{x2})^4 + 2 (a_{x1} d_{y1} - a_{y1} d_{x1})^5 (b_{x1} c_{y1} - a_{y1} d_{x2})^4 (c_{x1} d_{y2} - a_{y1} d_{x2})^4 + 2 (a_{x1} d_{y1} - a_{y1} d_{x1})^5 (a_{x1} d_{y2} - a_{y1} d_{x2})^4 + 2 (a_{x1} d_{y2} - a_{y1} d_{x2})^4 + 2 (a_{x1} d_{y2} - a_{y1} d_{x2})^4 + 2 (a_{x1} d_{y1} - a_{y1} d_{x1})^5 (a_{x1} d_{y2} - a_{y1} d_{x2})^4 + 2 (a_{x1} d_{y1} - a_{y1} d_{x1})^5 (a_{x1} d_{y2} - a_{y1} d_{x2})^4 + 2 (a_{x1} d_{y1} - a_{y1} d_{x1})^5 (a_{x1} d_{y2} - a_{y1} d_{x2})^4 + 2 (a_{x1} d_{y1} - a_{y1} d_{x1})^5 (a_{x1} d_{y2} - a_{y1} d_{x2})^4 + 2 (a_{x1} d_{y1} - a_{y1} d_{x1})^5 (a_{x1} d_{y2} - a_{y1} d_{x2})^4 + 2 (a_{x1} d_{y1} - a_{y1} d_{x1})^5 (a_{x1} d_{y2} - a_{y1} d_{x2})^4 + 2 (a_{x1} d_{y1} - a_{y1} d_{x1})^5 (a_{x1} d_{y1} - a_{y1} d_{x1})^5 (a_{x1} d_{y2} - a_{y1} d_{x2})^4 + 2 (a_{x1} d_{y1} - a_{y1} d_{x1})^5 (a$ $b_{y1} c_{x1} + 10 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^4 (b_{x1} d_{y2} - b_{y1} d_{x2}) - 6 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^4 (a_{x1} d_{y2} - b_{y1} d_{x2}) - 6 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^4 (a_{x1} d_{y2} - b_{y1} d_{x2}) - 6 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^4 (a_{x1} d_{y1} - a_{y$ $(a_{y1} d_{x1})^4 (c_{x1} d_{y1} - c_{y1} d_{x1}) + 20 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^4 (c_{x1} d_{y2} - c_{y1} d_{x2}) +$ $4\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{2}\left(b_{x1}\,c_{y1}-b_{y1}\,c_{x1}\right)\left(c_{x1}\,d_{y1}-c_{y1}\,d_{x1}\right)\left(c_{x1}\,d_{y2}-c_{y1}\,d_{x2}\right) 24\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)^{3}\left(d_{x1}\,d_{y2}-d_{x2}\,d_{y1}\right)+6\left(a_{x1}\,b_{y1}-a_{y1}\,d_{x1}\right)^{3}$ $(a_{u1} b_{x1})^2 (b_{x1} c_{u1} - b_{u1} c_{x1}) (b_{x1} d_{u1} - b_{u1} d_{x1})^2 (c_{x1} d_{u2} - c_{u1} d_{x2}) - 10 (a_{x1} d_{u1} - a_{u1} d_{x1}) (a_{x1} d_{u2} - a_{u1} d_{x1}) (a_$ $(a_{u1} d_{u2})^4 (b_{u1} c_{u1} - b_{u1} c_{u1}) - 4 (a_{u1} b_{u1} - a_{u1} b_{u1})^2 (b_{u1} c_{u1} - b_{u1} c_{u1})^2 (b_{u1} d_{u1} - b_{u1} d_{u1}) (d_{u1} d_{u2} - b_{u1} d_{u1})^2 (d_{u1} d_{u2} - b_{u1} d_{u2})^2 (d_{u1} d_{u2} - b_{u1} d_{u1})^2 (d_{u1} d_{u2} - b_{u1} d_{u2})^2 (d_{u1} d_{u2} - b_{u1} d_{u2})^2 (d_{u1} d_{u2} - b_{u1} d_{u2})^2 (d_{u2} d_{u2} - b_{u1} d_{u2})^2 (d_{u2} d_{u2} - b_{u2} d_{u2} - b_{u2} d_{u2})^2 (d_{u2} d_{u2} - b_{u2} d_{u2})^2 (d_{u2} d_{u2} - b_{u2} d_{u2})^2 (d_{$ $(a_{x2} d_{y1}) - 30 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2})^4 (c_{x1} d_{y1} - c_{y1} d_{x1}) - 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} c_{y1} - a_{y1} b_{x1})^2 (b_{x1} c_{y1}$ $b_{y1} c_{x1} (b_{x1} d_{y2} - b_{y1} d_{x2})^2 (c_{x1} d_{y1} - c_{y1} d_{x1}) - 24 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y2} - a_{y1} c_{x1}) (a_{x1}$ $(a_{y1} d_{x2})^3 (d_{x1} d_{y2} - d_{x2} d_{y1}) - 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} c_{y1} - b_{y1} c_{x1})^2 (b_{x1} d_{y2} - b_{y1} d_{x2}) (d_{x1} d_{y2} - b_{y1} d_{x2})$ $d_{x2} d_{y1}) - 20 \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right)^3 \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right)^2 \left(b_{x1} c_{y1} - b_{y1} c_{x1}\right) + 2 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right)^2 \left(b_{x1} c_{y1} - b_{y1} c_{x1}\right) + 2 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right)^2 \left(b_{x1} c_{y1} - b_{y1} c_{x1}\right) + 2 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right)^2 \left(b_{x1} c_{y1} - b_{y1} c_{x1}\right) + 2 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right)^2 \left(b_{x1} c_{y1} - b_{y1} c_{x1}\right) + 2 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right)^2 \left(b_{x1} c_{y1} - b_{y1} c_{x1}\right) + 2 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right)^2 \left(b_{x1} c_{y1} - b_{y1} c_{x1}\right) + 2 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right)^2 \left(b_{x1} c_{y1} - b_{y1} c_{x1}\right) + 2 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right)^2 \left(b_{x1} c_{y1} - b_{y1} c_{x1}\right) + 2 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right)^2 \left(b_{x1} c_{y1} - b_{y1} c_{x1}\right) + 2 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right)^2 \left(b_{x1} c_{y1} - b_{y1} c_{x1}\right) + 2 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right)^2 \left(b_{x1} c_{y1} - b_{y1} c_{x1}\right) + 2 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right)^2 \left(b_{x1} c_{y1} - b_{y1} c_{x1}\right) + 2 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right)^2 \left(b_{x1} c_{y1} - b_{y1} c_{x1}\right) + 2 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right)^2 \left(b_{x1} c_{y1} - b_{y1} c_{x1}\right) + 2 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right)^2 \left(b_{x1} c_{y1} - b_{y1} c_{x1}\right) + 2 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right)^2 \left(b_{x1} c_{y1} - b_{y1} c_{x1}\right) + 2 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right)^2 \left(b_{x1} c_{y1} - b_{y1} c_{x1}\right) + 2 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right)^2 \left(b_{x1} c_{y1} - b_{y1} c_{x1}\right) + 2 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right)^2 \left(b_{x1} c_{y1} - b_{y1} c_{x1}\right) + 2 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right)^2 \left(b_{x1} c_{y1} - b_{y1} c_{x1}\right) + 2 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right)^2 \left(b_{x1} c_{y1} - b_{y1} c_{x1}\right) + 2 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right)^2 \left(b_{x1} c_{y1} - b_{y1} c_{x1}\right) + 2 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right)^2 \left(b_{x1} c_{y1} - b_{y1} c_{x1}\right) + 2 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right)^2 \left(b_{x1} c_{y1} - b_{y1} c_{x1}\right) + 2 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right)^2 \left(b_{x1} c_{y1} - a_{y1} b_{x1}\right) + 2 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right)^2 \left(b_{x1} c_{y1} - a_{y1} b_{$ $(b_{y1} c_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2})^2 (c_{x1} d_{y2} - c_{y1} d_{x2}) - 60 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (a_{x1} d_{y2} - a_{y$ $(a_{y1} d_{x2})^2 (c_{x1} d_{y1} - c_{y1} d_{x1}) - 2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{x1} d_{y1} - b_{y1} d_{x1})^2 (c_{x1} d_{y1} - b_{$ $c_{y1} d_{x1}) - 24 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right) \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right)^{2} \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right) \left(d_{x1} d_{y2$

 $d_{x2} d_{y1}) - 2 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right) \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right)^2 \left(b_{x1} c_{y1} - b_{y1} c_{x1}\right) \left(c_{x1} d_{y2} - c_{y1} d_{x2}\right)^2 +$ $20\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)^{2}\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)^{3}\left(b_{x1}\,c_{y1}-b_{y1}\,c_{x1}\right)-2\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,c_{y1}-a_{y1}\,b_{x2}\right)$ $(a_{y1} c_{x1})^2 (b_{x1} c_{y1} - b_{y1} c_{x1}) (c_{x1} d_{y1} - c_{y1} d_{x1})^2 + 60 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x1})^2 (a_{x1} d_{y1} - a_$ $(a_{y1} d_{x2})^2 (c_{x1} d_{y2} - c_{y1} d_{x2}) + 2 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} d_{y2} - b_{y1} d_{x2}) (c_{x1} d_{y2} - a_{y1} d_{x2}) (c_{$ $(c_{y1} d_{x2}) - 24 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (d_{x1} d_{y2} - a_{y1}$ $(a_{x1} d_{v1}) + 8 (a_{x1} b_{v1} - a_{v1} b_{x1}) (a_{x1} c_{v1} - a_{v1} c_{x1}) (a_{x1} d_{v1} - a_{v1} d_{x1}) (b_{x1} d_{v2} - b_{v1} d_{x2})^3 - (a_{x1} d_{v1} - a_{v1} d_{v1}) (a_{x1} d_{v1} - a_{v1} d_{v1}) (a_{x1} d_{v1} - a_{v1} d_{v1})^3 - (a_{x1} d_{v1} - a_{v1} d_{v1}) (a_{x1} d_{v1} - a_{v1} d_{v1})^3 - (a_{x1} d_{v1} - a_{v1} d_{v1}) (a_{x1} d_{v1} - a_{v1} d_{v1}) (a_{x1} d_{v1} - a_{v1} d_{v1})^3 - (a_{x1} d_{v1} - a_{v1} d_{v1}) (a_{x1} d_{v1} - a_{v1} d_{v1})^3 - (a_{x1} d_{v1} - a_{v1} d_{v1}) (a_{x1} d_{v1} - a_{v1} d_{v1})^3 - (a_{x1} d_{v1} - a_{v1} d_{v1}) (a_{x1} d_{v1} - a_{v1} d_{v1})^3 - (a_{x1} d_{v1} 8\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{3}\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)\left(c_{x1}\,d_{y2}-c_{y1}\,d_{x2}\right)\left(d_{x1}\,d_{y2}-d_{x2}\,d_{y1}\right)+8\left(a_{x1}\,b_{y1}-a_{y2}\,d_{y1}\right)$ $(a_{x1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1})^3 + 8 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (b_{x1} d_{y1} - a_{y1$ $b_{y1} d_{x1}$) $(c_{x1} d_{y1} - c_{y1} d_{x1}) (d_{x1} d_{y2} - d_{x2} d_{y1}) - 10 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x1})^2 (a_{x1} d_{y1} - a_{y1$ $(a_{y1} d_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1})^2 - 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (b_{x1} d_{y1} - b_{y1} d_{x1}) (d_{x1} d_{y2} - a_{y1} d_{x1})^2 (a_{x1} d_{y1} - a_{$ $(d_{x2} d_{y1}) - 2 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2})^2 +$ $10\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)^{2}\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)^{2}-6\left(a_{x1}\,b_{y1}-a_{y1}\,d_{x2}\right)^{2}$ $(a_{u1} b_{x1})^2 (a_{x1} d_{u2} - a_{u1} d_{x2}) (b_{x1} d_{u2} - b_{u1} d_{x2})^2 (c_{x1} d_{u2} - c_{u1} d_{x2}) - 4 (a_{x1} b_{u1} - a_{u1} b_{x1})^2 (a_{x1} d_{u2} - a_{u1} d_{x2})^2 (a_{x1} d_{u2} - a_{u1} d_{u2} - a_{u1} d_{u2})^2 (a_{x1} d_{u2} - a_{u1} d_{u2} - a_{u1} d_{u2} - a_{u1} d_{u2})^2 (a_{x1} d_{u2} - a_{u1} d_{u2} - a_{u1} d_{u2} - a_{u1} d_{u2})^2 (a_{x1} d_{u2} - a_{u1} d_{u2} - a_{u1} d_{u2} - a_{u1} d_{u2} - a$ $(a_{y1} d_{x2})^2 (b_{x1} d_{y2} - b_{y1} d_{x2}) (d_{x1} d_{y2} - d_{x2} d_{y1}) - 2 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (b_{x1} c_{y1} - a_{y1} d_{x2})^2 (b_{x1} d_{y2} - b_{y1} d_{x2}) (d_{x1} d_{y2} - d_{x2} d_{y1}) - 2 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (b_{x1} c_{y1} - a_{y1} d_{x2})^2 (b_{x1} d_{y2} - b_{y1} d_{x2}) (d_{x1} d_{y2} - d_{x2} d_{y1}) - 2 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (b_{x1} d_{y2} - a_{y1} d_{x1})^2 (b_{x1} d_{y1} - a_{y1} d_{x1})^2 (b_{x1} d_{y2} - a_{y1} d_{x1})^2 (b_{x1} d_{y2} - a_{y1} d_{x1})^2 (b_{x1} d_{y1} - a_{y1} d_{x1})^2 (b_{x1} d_{x1} - a_{x1} d_{x1})^2 (b_{x1} d_{x1} - a_{x1} d_{x1})^2 (b_{x1} d_{x1} - a_{x1} d_$ $b_{y1} c_{x1} (b_{x1} d_{y1} - b_{y1} d_{x1})^2 + 4 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (c_{x1} d_{y1} - c_{y1} d_{x1}) (d_{x1} d_{y2} - a_{y1} c_{x1})^3 (c_{x1} d_{y1} - c_{y1} d_{x1}) (d_{x1} d_{y2} - a_{y1} c_{x1})^3 (c_{x1} d_{y1} - c_{y1} d_{x1}) (d_{x1} d_{y2} - a_{y1} c_{x1})^3 (c_{x1} d_{y1} - a_{y1} d_{x1})^3 (d_{x1} d_{y2} - a_{y1} d_{x1})^3 (d_{x1} d_{y1} - a_{y1} d_{x$ $(d_{x2} d_{y1}) - 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1}) (b_{x1} d_{y1} - b_{y1} d_{x1})^2 (c_{x1} d_{y1} - c_{y1} d_{x1}) +$ $12\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{2}\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(c_{x1}\,d_{y1}-c_{y1}\,d_{x1}\right)^{2}+4\left(a_{x1}\,b_{y1}-a_{y1}\,d_{x2}\right)^{2}+4\left(a_{x1}\,b_{y1}-a_{y1$ $(a_{x1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (c_{x1} d_{y2} - c_{y1} d_{x2})^2 + 6 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} d_{y1} - a_{y1} c_{x1})^3 (a_{x1} d_{y1} - a_{y1} c_{x1})^3 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 + 6 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} d_{y1} - a_{y1} c_{x1})^3 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 + 6 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} d_{y1} - a_{y1} c_{x1})^3 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 + 6 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} d_{y1} - a_{y1} c_{x1})^3 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 + 6 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} d_{y1} - a_{y1} c_{x1})^3 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 + 6 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} d_{y1} - a_{y1} c_{x1})^3$ $(a_{y1} d_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) (c_{x1} d_{y1} - c_{y1} d_{x1}) + 4 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} d_{y1} - a_{y1} d_{x1}) (b_{x1} d_{y2} - a_{y1} d_{x1}) (b_{x1} d_{y2} - a_{y1} d_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1$ $b_{y1} d_{x2} (c_{x1} d_{y2} - c_{y1} d_{x2}) + 2 (a_{x1} c_{y1} - a_{y1} c_{x1})^4 (b_{x1} d_{y1} - b_{y1} d_{x1}) (d_{x1} d_{y2} - d_{x2} d_{y1}) 12\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{2}\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)\left(c_{x1}\,d_{y2}-c_{y1}\,d_{x2}\right)^{2}+2\left(a_{x1}\,b_{y1}-a_{y1}\,d_{x1}\right)\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)^{2}+2\left(a_{x1}\,b_{y1}-a_{y1}\,d_{x$ $(a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^3 (b_{x1} d_{y2} - b_{y1} d_{x2})^2 - 10 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} d_{y1} - a_{y1} c_{x1})^3 (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x2})$ $(b_{y1} d_{x1}) (c_{x1} d_{y2} - c_{y1} d_{x2}) - 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} d_{y1} - a_{y1} d_{x2})$ $b_{y1} d_{x1} (d_{x1} d_{y2} - d_{x2} d_{y1}) + 2 (a_{x1} c_{y1} - a_{y1} c_{x1})^4 (b_{x1} d_{y2} - b_{y1} d_{x2}) (d_{x1} d_{y2} - d_{x2} d_{y1}) +$ $18\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)^{2}\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(b_{x1}\,d_{y1}-b_{y1}\,d_{x1}\right)\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right) (2(a_{x1}c_{y1} - a_{y1}c_{x1})^2(a_{x1}d_{y1} - a_{y1}d_{x1})^2(b_{x1}c_{y1} - b_{y1}c_{x1})(c_{x1}d_{y1} - c_{y1}d_{x1}) - 2(a_{x1}b_{y1} - a_{y1}d_{x1})^2(a_{x1}d_{y1} - a_{y1}d_{x1$ $(a_{x1} b_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2})^3 (b_{x1} d_{y1} - b_{y1} d_{x1})^2 - 6 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^2$ $(a_{u1} d_{x1}) (c_{x1} d_{u1} - c_{u1} d_{x1})^2 - 6 (a_{x1} b_{u1} - a_{u1} b_{x1})^2 (a_{x1} d_{u1} - a_{u1} d_{x1}) (a_{x1} d_{u2} - a_{u1} d_{x2}) (b_{x1} d_{u2} - a_{u1} d_{x2}) (a_{x1} d_{u2} - a_{u1} d_{x2}) (a_{$ $b_{y1}\,d_{x2})\,(d_{x1}\,d_{y2}-d_{x2}\,d_{y1})-2\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})^3\,(c_{x1}\,d_{y2}-c_{y1}\,d_{x2})^3-18\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})\,(a_{x1}\,d_{y1}-a_{y1}\,b_{x1})^3+10\,(a_{x1}\,d_{y1}-a_{y1}\,b_{x1})^3+10\,(a_{x1}\,d_{y2}-a_{y1}\,d_{x2})^3+10\,(a_{x1}\,d_{y1}-a_{y1}\,b_{x1})^3+10\,(a_{x1}\,d_$ $(a_{x1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (b_{x1} d_{y1} - b_{y1} d_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) - 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (a_{y1} d_{y2} - a_{y1} d_{y2})^2 (a_{y1} d_{y2} - a_{y1$ $(a_{y1} d_{x2}) (b_{x1} c_{y1} - b_{y1} c_{x1}) (c_{x1} d_{y2} - c_{y1} d_{x2})^2 - 10 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (b_{x1} c_{y1} - a_{y$ $(b_{y1} c_{x1})^3 - 4 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} c_{y1} - a_{y1} d_{x2}) (b_{x1$ $b_{y1} d_{x2}$) $(c_{x1} d_{y2} - c_{y1} d_{x2}) - 18 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (b_{x1} c_{y1} - b_{y1} c_{x1})^2 (c_{x1} d_{y1} - a_{y1} d_{x2})^2$ $(c_{y1} d_{x1}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} c_{y1} - b_{y1} c_{x1})^2 (d_{x1} d_{y2} - a_{y1} d_{x2})$ $d_{x2} d_{y1}) + 16 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1}) (b_{x1} d_{y1} - b_{y1} d_{x1})^2 (c_{x1} d_{y2} - c_{y1} d_{x2}) +$ $10\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{3}\left(b_{x1}\,d_{y1}-b_{y1}\,d_{x1}\right)\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)^{2}-6\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,c_{y1}-a_{y1}\,b_{x1}\right)^{2}$ $(a_{y1} c_{x1}) (b_{x1} d_{y1} - b_{y1} d_{x1})^2 (d_{x1} d_{y2} - d_{x2} d_{y1}) - 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (c_{x1} d_{y1} - c_{y1} d_{x1}) (c_{x1} d_{y2} - d_{x2} d_{y1})^3 - 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (c_{x1} d_{y1} - c_{y1} d_{x1}) (c_{x1} d_{y2} - d_{x2} d_{y1})^3 - 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (c_{x1} d_{y1} - c_{y1} d_{x1}) (c_{x1} d_{y2} - d_{x2} d_{y1})^3 - 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (c_{x1} d_{y1} - c_{y1} d_{x1}) (c_{x1} d_{y2} - d_{x2} d_{y1})^3 - 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (c_{x1} d_{y1} - c_{y1} d_{x1}) (c_{x1} d_{y2} - d_{x2} d_{y1})^3 - 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (c_{x1} d_{y1} - c_{y1} d_{x1}) (c_{x1} d_{y2} - d_{x2} d_{y1})^3 - 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (c_{x1} d_{y1} - c_{y1} d_{x1}) (c_{x1} d_{y2} - d_{x2} d_{y1})^3 - 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 - 4 (a_{x1} d_{y1} - a_{y1} d_{x1})^3 - 4 (a_{x1} d_{y1}$ $(c_{y1} d_{x2})^2 + 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (b_{x1} c_{y1} - b_{y1} c_{x1}) (d_{x1} d_{y2} - d_{x2} d_{y1})^2 + 10 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x1})^2 (a_{x1} d_{y2$ $a_{y1} d_{x2}) \left(b_{x1} c_{y1} - b_{y1} c_{x1}\right)^{3} - 12 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right) \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right) \left(b_{x1} d_{y1} - a_{y1} d_{x1}\right) \left(a_{x1} d_{y1$ $b_{y1} d_{x1} (b_{x1} d_{y2} - b_{y1} d_{x2})^2 + 18 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (b_{x1} c_{y1} - b_{y1} c_{x1})^2 (c_{x1} d_{y2} - b_{y1} c_{y1} c_{y1})^2 (c_{x1} d_{y2} - b_{y1} c_{y1} c_{y1} c_{y1})^2 (c_{x1} d_{y2} - b_{y1} c_{y1} c_{y1} c_{y1} c_{y1})^2 (c_{x1} d_{y2} - b_{y1} c_{y1} c_{y1}$ $(c_{y1} d_{x2}) - 24 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) (c_{x1} d_{y1} - b_{y1} d_{x2}) (c_{x$

 $(c_{y1} d_{x1}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (b_{x1} c_{y1} - b_{y1} c_{x1})^2 (d_{x1} d_{y2} - a_{y1} d_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x$ $(d_{x2} d_{y1}) - 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (b_{x1} d_{y1} - b_{y1} d_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) (d_{x1} d_{y2} - b_{y1} d_{x2})$ $d_{x2} d_{y1}) - 10 \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right)^3 \left(b_{x1} d_{y1} - b_{y1} d_{x1}\right)^2 \left(b_{x1} d_{y2} - b_{y1} d_{x2}\right) + 16 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right)^2 \left(a_{x1} d_{y2} - b_{y1} d_{x2}\right) + 16 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right)^2 \left(a_{x1} d_{y2} - b_{y1} d_{x2}\right) + 16 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right)^2 \left(a_{x1} d_{y2} - b_{y1} d_{x2}\right) + 16 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right)^2 \left(a_{x1} d_{y2} - b_{y1} d_{x2}\right) + 16 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right)^2 \left(a_{x1} d_{y2} - b_{y1} d_{x2}\right) + 16 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right)^2 \left(a_{x1} d_{y2} - b_{y1} d_{x2}\right) + 16 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right)^2 \left(a_{x1} d_{y2} - b_{y1} d_{x2}\right) + 16 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right)^2 \left(a_{x1} d_{y2} - b_{y1} d_{x2}\right) + 16 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right)^2 \left(a_{x1} d_{y2} - b_{y1} d_{x2}\right) + 16 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right)^2 \left(a_{x1} d_{y2} - b_{y1} d_{x2}\right) + 16 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right)^2 \left(a_{x1} d_{y2} - b_{y1} d_{x2}\right) + 16 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right)^2 \left(a_{x1} d_{y2} - b_{y1} d_{x2}\right) + 16 \left(a_{x1} d_{y1} - a_{y1} d_{x2}\right) + 16 \left(a_{x1} d_{y2} - b_{y1} d_{x2}\right) + 16$ $(a_{u1} d_{u2}) (b_{u1} d_{u2} - b_{u1} d_{u2})^2 (c_{u1} d_{u1} - c_{u1} d_{u1}) + 4 (a_{u1} b_{u1} - a_{u1} b_{u1})^3 (c_{u1} d_{u1} - c_{u1} d_{u1})^2 (c_{u1} d_{u2} - b_{u1} d_{u1})^2 (c_{u1} d_{u2} - b_{u1} d_{u2})^2 (c_{u1} d_{u1} - c_{u1} d_{u1})^2 (c_{u1} d_{u2} - b_{u1} d_{u2})^2 (c_{u1} d_{u1} - c_{u1} d_{u1})^2 (c_{u1} d_{u2} - b_{u1} d_{u2})^2 (c_{u1} d_{u1} - c_{u1} d_{u1})^2 (c_{u1} d_{u2} - b_{u1} d_{u2})^2 (c_{u1} d_{u1} - c_{u1} d_{u1})^2 (c_{u1} d_{u1} - c_{u1} d_{u1})^2 (c_{u1} d_{u2} - b_{u1} d_{u2})^2 (c_{u1} d_{u1} - c_{u1} d_{u1})^2 (c_{u1} d_{u2} - b_{u1} d_{u2})^2 (c_{u1} d_{u1} - c_{u1} d_{u1})^2 (c_{u1} d_{u1} - c_{u1} d_{u1})^2 (c_{u1} d_{u2} - c_{u1} d_{u2})^2 (c_{u1} d_{u2} - c_{u1} d_{u1})^2 (c_{u1} d_{u2} - c_{u1} d_{u1})^2 (c_{u1} d_{u2} - c_{u1} d_{u2})^2 (c_{u1} d_{u2} - c_{$ $(c_{y1} d_{x2}) + 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2})^2 (d_{x1} d_{y2} - d_{x2} d_{y1}) +$ $(2(a_{x1}b_{y1}-a_{y1}b_{x1})^3(c_{x1}d_{y1}-c_{y1}d_{x1})^3+8(a_{x1}c_{y1}-a_{y1}c_{x1})(a_{x1}d_{y2}-a_{y1}d_{x2})^3(b_{x1}c_{y1}-a_{y1}d_{y2})^3$ $(b_{y1} c_{x1})(b_{x1} d_{y1} - b_{y1} d_{x1}) + 6(a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})(b_{x1} c_{y1} - b_{y1} c_{x1})(c_{x1} d_{y1} - a_{y1} d_{x1})$ $(c_{y1} d_{x1})^2 - 12 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (b_{x1} d_{y1} - b_{y1} d_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) +$ $4\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)\left(b_{x1}\,c_{y1}-b_{y1}\,c_{x1}\right)\left(b_{x1}\,d_{y1}-b_{y1}\,d_{x1}\right)\left(c_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)$ $(c_{y1} d_{x1}) - 24 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (c_{x1} d_{y1} - c_{y1} d_{x1}) (c_{x1} d_{y2} - c_{y1} d_{x2}) +$ $8\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)^{3}\left(b_{x1}\,c_{y1}-b_{y1}\,c_{x1}\right)\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)-18\left(a_{x1}\,b_{y1}-a_{y1}\,d_{x2}\right)^{3}$ $(a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (c_{x1} d_{y2} - c_{y1} d_{x2}) (d_{x1} d_{y2} - d_{x2} d_{y1}) - 12 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{y1} c_{y1} - a_{y1} c_{y1}) - 12 (a_{y1} c_{$ $(a_{u1} c_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (b_{x1} d_{y1} - b_{y1} d_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) - 6 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x1})^2 (a_{x1} d_{y1} - a_{$ $a_{y1} d_{x2})^2 (b_{x1} c_{y1} - b_{y1} c_{x1})^2 - 24 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (c_{x1} d_{y1} - a_{y1} d_{x2}) (c_{x1} d_{y1} - a_{y1} d_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x2}) (a$ $(c_{y1} d_{x1})^2 + 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (d_{x1} d_{y2} - d_{x2} d_{y1})^2 - 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} b_{x1})^2 - 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} b_{x1})^2 - 6 (a_{x1} b_{y1} - a_{y1} b_{x1} b_{y1} - a_{y1} b_{x1})^2 - 6 (a_{x1} b_{y1} - a_{y1} b_{x1} b_{y1} - a_{y1} b_{x1})^2 - 6 (a_{x1} b_{y1} - a_{y1} b_{x1} b_{x1} b_{y1} - a_{y1} b_{x1} b_{x1} b_{y1} - a_{y1} b_{x1} b_{$ $(a_{y1} c_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (c_{x1} d_{y1} - c_{y1} d_{x1}) (d_{x1} d_{y2} - d_{x2} d_{y1}) + 12 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y1} - a_{y1}$ $a_{v1} d_{x1} (a_{x1} d_{v2} - a_{v1} d_{x2}) (b_{x1} d_{v1} - b_{v1} d_{x1}) (b_{x1} d_{v2} - b_{v1} d_{x2}) - 2 (a_{x1} b_{v1} - a_{v1} b_{x1})^2 (b_{x1} c_{v1} - a_{v1} b_{v1})^2 (b_{v1} c_{v1} - a_{v1} b_{v1} - a_{v1} b_{v1} - a_{v1} b_{v1})^2 (b_{v1} c_{v1} - a_{v1} b_{v1} - a_{v1} b_{v1})^2 (b_{v1} c_{v1} - a_{v1} b_{v1} - a_{v1} b_{v1} - a_{v1} b_{v1})^2 (b_{v1} c_{v1} - a_{v1} b_{v1} - a_{v1} b_{v$ $(b_{y1} c_{x1})^2 (c_{x1} d_{y1} - c_{y1} d_{x1}) (c_{x1} d_{y2} - c_{y1} d_{x2}) + 42 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x1}) (a_$ $a_{y1} d_{x2}$) $(c_{x1} d_{y1} - c_{y1} d_{x1}) (c_{x1} d_{y2} - c_{y1} d_{x2})$

 $c_1 = 4 \left(a_{x1} \, b_{y1} - a_{y1} \, b_{x1} \right) \left(a_{x1} \, c_{y1} - a_{y1} \, c_{x1} \right)^2 \left(b_{x1} \, c_{y1} - b_{y1} \, c_{x1} \right) \left(c_{x1} \, c_{y2} - c_{x2} \, c_{y1} \right) \left(c_{x1} \, d_{y1} - c_{y1} \, d_{y1} \right)$ $(c_{y1} d_{x1}) - 4 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (b_{x1} c_{y1} - b_{y1} c_{x1}) (c_{x1} c_{y2} - c_{x2} c_{y1}) (c_{x1} d_{y2} - c_{y1} c_{y1}) (c_{y1} c_{y1} c_{y2} - c_{y2} c_{y1}) (c_{y1} c_{y1} - c_{y2} c_{y2}) (c_{y1} c_{y2} - c_{y2} c_{y2}) (c_{y1} c_{y2} - c_{y2} c_{y2}) (c_{y1} c_{y2} - c_{y2} c_{y2}) (c_{y2} c_{y2} - c_{y2} c_{y2})$ $(c_{y1} d_{x2}) - 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1})^3 + 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1})^3 + 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1})^3 + 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1})^3 + 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1})^3 + 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1})^3 + 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1})^3 + 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1})^3 + 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1})^3 + 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1})^3 + 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1})^3 + 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1})^3 + 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} d_{y1} - b_{y1} d_{x1})^3 + 12 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (b_{x1} d_{x1} - a_{y1} d_{x1})^2 (b_{x1} d_{$ $(b_{y1} c_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1})^2 (b_{x1} d_{y2} - b_{y1} d_{x2}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x1} d_{y1} - a_{y1} b_{x1})^2$ $(b_{y1} d_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2})^2 + 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x1} d_{y2} - b_{y1} d_{x2})^3 2(a_{x1}b_{y1} - a_{y1}b_{x1})^{2}(b_{x1}c_{y1} - b_{y1}c_{x1})^{2}(c_{x1}c_{y2} - c_{x2}c_{y1})(c_{x1}d_{y1} - c_{y1}d_{x1}) + 2(a_{x1}b_{y1} - c_{y1}d_{x1})^{2}(c_{x1}c_{y2} - c_{x2}c_{y1})(c_{x1}d_{y1} - c_{y1}d_{x1}) + 2(a_{x1}b_{y1} - c_{y1}d_{x1})^{2}(c_{x1}c_{y1} - c_{y1}d_{x1}) + 2(a_{$ $(a_{y1} b_{x1})^2 (b_{x1} c_{y1} - b_{y1} c_{x1})^2 (c_{x1} c_{y2} - c_{x2} c_{y1}) (c_{x1} d_{y2} - c_{y1} d_{x2}) - 6 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} c_{x2}) (a_{y1} c_{y1} c_{y2} - a_{y1} c_{y2}) (a_{y1} c_{y1} c_{y2} - a_{y1} c_{y2}) (a_{y1} c_{y1} c_{y2} - a_{y1} c_{y2}) (a_{y1} c_{y1} c_{y2} c_{y1} c_{y2} - a_{y1} c_{y2}) (a_{y1} c_{y1} c_{y2} c_{y1} c_{y2} c_{y1} c_{y2} c_{y1} c_{y2}) (a_{y1} c_{y1} c_{y2} c_{y2} c_{y1} c_{y2} c_{y1} c_{y2} c_{y2} c_{y2} c_{y1} c_{y2} c_{y2} c_{y2} c_{y1} c_{y2} c_$ $a_{y1} d_{x1})^5 + 30 \left(a_{x1} c_{y2} - a_{y1} c_{x2}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right)^4 \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right) - 60 \left(a_{x1} c_{y2} - a_{y1} c_{x2}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right)^4 + 30 \left(a_{x1} c_{y2} - a_{y1} c_{x2}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right)^4 + 30 \left(a_{x1} c_{y2} - a_{y1} c_{x2}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right)^4 + 30 \left(a_{x1} c_{y2} - a_{y1} c_{x2}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right)^4 + 30 \left(a_{x1} c_{y2} - a_{y1} c_{x2}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right)^4 + 30 \left(a_{x1} c_{y2} - a_{y1} c_{x2}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right)^4 + 30 \left(a_{x1} c_{y2} - a_{y1} c_{x2}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right)^4 + 30 \left(a_{x1} c_{y2} - a_{y1} c_{x2}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right)^4 + 30 \left(a_{x1} c_{y2} - a_{y1} c_{x2}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right)^4 + 30 \left(a_{x1} c_{y2} - a_{y1} c_{x2}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right)^4 + 30 \left(a_{x1} c_{y2} - a_{y1} c_{x2}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right)^4 + 30 \left(a_{x1} c_{y2} - a_{y1} c_{x2}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x2}\right)^4 + 30 \left(a_{x1} c_{y2} - a_{y1} c_{x2}\right)^4 + 30 \left(a_{x1} c_{y2} - a_{y1} c_{y$ $(a_{x1} d_{x1})^3 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 + 60 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^3 - (a_{x1} d_{y2} - a_{y1} d_{x2})^2 + 60 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^3 - (a_{x1} d_{y2} - a_{y1} d_{x2})^2 + 60 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^3 - (a_{x1} d_{y2} - a_{y1} d_{x2})^2 + 60 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^3 - (a_{x1} d_{y2} - a_{y1} d_{x2})^2 + 60 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^3 - (a_{x1} d_{y2} - a_{y1} d_{x2})^2 + 60 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^3 - (a_{x1} d_{y2} - a_{y1} d_{x2})^2 + 60 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 + 60 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 + 60 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 + 60 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 + 60 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 + 60 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 + 60 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 + 60 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 + 60 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 + 60 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 + 60 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 + 60 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 + 60 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 + 60 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 + 60 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 + 60 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 + 60 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 + 6$ $30\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)^{4}+6\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)^{2}+6\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)^{2}+6\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)^{2}+6\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)^{2}+6\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)^{2}+6\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)^{2}+6\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)^{2}+6\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)^{2}+6\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)^{2}+6\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)^{2}+6\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)^{2}+6\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)^{2}+6\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)^{2}+6\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)^{2}+6\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)^{2}+6\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)^{2}+6\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)^{2}+6\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)^{2}+6\left(a_{x1}\,d_{x2}-a_{x2}\,d$ $(a_{x1} d_{x2})^5 - 2 (a_{x1} c_{y1} - a_{y1} c_{x1})^4 (c_{x1} c_{y2} - c_{x2} c_{y1}) (c_{x1} d_{y1} - c_{y1} d_{x1}) + 2 (a_{x1} c_{y1} - a_{y1} c_{x1})^4 (c_{x1} c_{y2} - c_{x2} c_{y1}) (c_{x1} d_{y1} - c_{y1} d_{x1}) + 2 (a_{x1} c_{y1} - a_{y1} c_{x1})^4 (c_{x1} c_{y2} - c_{x2} c_{y1}) (c_{x1} d_{y1} - c_{y1} d_{x1}) + 2 (a_{x1} c_{y1} - a_{y1} c_{x1})^4 (c_{x1} c_{y2} - c_{x2} c_{y1}) (c_{x1} d_{y1} - c_{y1} d_{x1}) + 2 (a_{x1} c_{y1} - a_{y1} c_{x1})^4 (c_{x1} c_{y2} - c_{x2} c_{y1}) (c_{x1} d_{y1} - c_{y1} d_{x1}) + 2 (a_{x1} c_{y1} - a_{y1} c_{x1})^4 (c_{x1} c_{y2} - c_{x2} c_{y1}) (c_{x1} d_{y1} - c_{y1} d_{x1}) + 2 (a_{x1} c_{y1} - a_{y1} c_{x1})^4 (c_{x1} c_{y2} - c_{x2} c_{y1}) (c_{x1} d_{y1} - c_{y1} d_{x1}) + 2 (a_{x1} c_{y1} - a_{y1} c_{x1})^4 (c_{x1} c_{y2} - c_{x2} c_{y1}) (c_{x1} d_{y1} - c_{y1} d_{x1}) + 2 (a_{x1} c_{y1} - a_{y1} c_{x1})^4 (c_{x1} c_{y2} - c_{x2} c_{y1}) (c_{x1} d_{y1} - c_{y1} d_{x1}) + 2 (a_{x1} c_{y1} - a_{y1} c_{x1})^4 (c_{x1} c_{y2} - c_{x2} c_{y1}) (c_{x1} d_{y1} - c_{y1} d_{x1}) + 2 (a_{x1} c_{y1} - a_{y1} c_{x1})^4 (c_{x1} c_{y2} - c_{x2} c_{y1}) (c_{x1} d_{y1} - c_{y1} d_{x1}) + 2 (a_{x1} c_{y1} - c_{y1} c_{y1} - c_{y1} c_{y1}) + 2 (a_{x1} c_{y1} - c_{y1} c_{y1} - c_{y1} c_{y1}) + 2 (a_{x1} c_{y1} - c_{y1} c_{y1} - c_{y1} c_{y1} c_{y1}) + 2 (a_{x1} c_{y1} - c_{y1} c_{y1} c_{y1} - c_{y1} c_{y1} c_{y1} c_{y1}) + 2 (a_{x1} c_{y1} - c_{y1} c_{$ $(c_{x2} c_{y1}) (c_{x1} d_{y2} - c_{y1} d_{x2}) + 24 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^3 (c_{x1} d_{y1} - a_{y1} d_{x2})^3$ $(c_{y1} d_{x1}) - 4 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^4 (c_{x1} c_{y2} - c_{x2} c_{y1}) - 32 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{y1}) - 32 (a_{x1} b_{y1} - a_{y1} c_{y1}) - 32 (a_{x1} b_{y1} - a_{y1} c_{y1}) - 32 (a_{x1} b_{y1} - a_{y1} c_{y1}) - 32 (a_{x1} c_{y1} - a_{y1} c_{y1}) - 32 (a$ $(a_{x1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^3 (c_{x1} d_{y2} - c_{y1} d_{x2}) - 4 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^3 (b_{x1} c_{y2} - a_{y1} d_{x2})^3 (a_{x1} d_{y1} - a_{y1} d_{x1})^3 (a_{x1} d_{y1} - a_{y1} d_{x1})^3 (a_{x1} d_{y2} - a_{y1} d_{x2})^3 (a_{x1} d_{y1} - a_{y1} d_{x1})^3 (a_{x1} d_{y1} - a_{y1$ $b_{y1} c_{x2} (b_{x1} d_{y1} - b_{y1} d_{x1}) + 12 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^3 (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x1} d_{y2} - b_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^3 (a_{x1} d_{y1} - a_{y1} d_{$ $b_{y1}\,d_{x2}) - 8\,(a_{x1}\,c_{y1} - a_{y1}\,c_{x1})^2\,(a_{x1}\,d_{y1} - a_{y1}\,d_{x1})^3\,(c_{x1}\,c_{y2} - c_{x2}\,c_{y1}) + 144\,(a_{x1}\,b_{y1} - a_{y1}\,b_{x1})\,(a_{x1}\,c_{y2} - a_{y1}\,b_{x1})^2\,(a_{x1}\,c_{y2} -$ $(a_{u1} c_{x2}) (a_{x1} d_{u1} - a_{u1} d_{x1})^2 (a_{x1} d_{u2} - a_{u1} d_{x2}) (c_{x1} d_{u2} - c_{u1} d_{x2}) - 18 (a_{x1} b_{u1} - a_{u1} b_{x1}) (a_{x1} d_{u1} - a_{u1} d_{x2})$ $(a_{u1} d_{x1})^2 (a_{x1} d_{u2} - a_{u1} d_{x2}) (b_{x1} c_{u2} - b_{u1} c_{x2}) (b_{x1} d_{u2} - b_{u1} d_{x2}) + 6 (a_{x1} c_{u1} - a_{u1} c_{x1})^2 (a_{x1} d_{u1} - a_{u1} c_{x1})^2 (a_{x1} d_{u1} - a_{u1} c_{x1})^2 (a_{x2} d_{u2} - a_{u1} d_{u2}) + 6 (a_{x1} c_{u2} - a_{u1} c_{x1})^2 (a_{x2} d_{u2} - a_{u1} d_{u2}) + 6 (a_{x1} c_{u2} - a_{u1} c_{x1})^2 (a_{x2} d_{u2} - a_{u1} d_{u2}) + 6 (a_{x1} c_{u2} - a_{u1} c_{x1})^2 (a_{x1} d_{u2} - a_{u1} d_{u2}) + 6 (a_{x1} c_{u2} - a_{u1} c_{x1})^2 (a_{x1} d_{u2} - a_{u1} c_{u1} c_{u2})^2 (a_{x1} d_{u2} - a_{u1} c_{u1} c_{u2})^2 (a_{x1} d_{u2} - a_{u1} c_{u2})^2$ $(a_{u1} d_{u1})^2 (a_{u1} d_{u2} - a_{u1} d_{u2}) (c_{u1} c_{u2} - c_{u2} c_{u1}) - 96 (a_{u1} b_{u1} - a_{u1} b_{u1}) (a_{u1} c_{u2} - a_{u1} c_{u2}) (a_{u1} d_{u1} - a_{u1} c_{u2}) (a_{u1} d_{u2} - a_{u1} c_{u2}) (a_{u1} d_{u2} - a_{u1} c_{u2}) (a_{u2} d_{u2} - a_{u1} c_{u2}) (a_{u1} d_{u2} - a_{u1} c_{u2}) (a_{u2} d_{u2} - a_{u1} c_{u2}) (a_{u1} d_{u2} - a_{u1} c_{u2}) (a_{u2} d_{u2} - a_{u2} c_{u2}) (a_{u$ $a_{y1} d_{x1}) \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right)^{2} \left(c_{x1} d_{y2} - c_{y1} d_{x2}\right) + 36 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right) \left(a_{x1} d_{y2} - a_{y1} d_{x1}\right) \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right)^{2} + 36 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right) \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right)^{2} + 36 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right) \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right)^{2} + 36 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right) \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right)^{2} + 36 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right) \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right)^{2} + 36 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right) \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right)^{2} + 36 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right) \left(a_{x1} d_{y2} - a_{y1} d_{x1}\right)^{2} + 36 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right)^{2} + 36 \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right$ $(a_{y1} d_{x2})^2 (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x1} d_{y2} - b_{y1} d_{x2}) - 6 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2$

 $(a_{x1} d_{x2})^2 (c_{x1} c_{y2} - c_{x2} c_{y1}) + 24 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^3 (c_{x1} d_{y2} - a_{y$ $c_{y1} d_{x2}) + 6 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right) \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right)^{4} \left(c_{x1} c_{y2} - c_{x2} c_{y1}\right) - 10 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right) \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right)^{4} \left(a_{x1} c_{y2} - c_{x2} c_{y1}\right) - 10 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right) \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right)^{4} \left(a_{x1} c_{y2} - a_{y1} c_{x2}\right)^{4} \left(a_{x1} c_{y2} - a_{$ $(a_{y1} d_{x2})^3 (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x1} d_{y2} - b_{y1} d_{x2}) + 2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^3 (c_{x1} c_{y2} - a_{y1} d_{x2})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^3 (c_{x1} c_{y2} - a_{y1} d_{x2})^3 (a_{x1} d_{y2} - a_{$ $(c_{x2} c_{y1}) + 12 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (c_{x1} d_{y1} - c_{y1} d_{x1})^2 - (c_{x1} d_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 - (c_{x1} d_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 - (c_{x1} d_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 - (c_{x1} d_{y1} - a_{y1} d_{x1})^2 - (c_{x1} d_{y1} - a_{y1} d_{x1$ $12\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{2}\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)\left(c_{x1}\,d_{y1}-c_{y1}\,d_{x1}\right)\left(c_{x1}\,d_{y2}-c_{y1}\,d_{x2}\right) 12\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{2}\left(b_{x1}\,c_{y2}-b_{y1}\,c_{x2}\right)\left(b_{x1}\,d_{y1}-b_{y1}\,d_{x1}\right)\left(c_{x1}\,d_{y1}-c_{y1}\,d_{x1}\right)+$ $24\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{2}\left(b_{x1}\,c_{y2}-b_{y1}\,c_{x2}\right)\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)\left(c_{x1}\,d_{y1}-c_{y1}\,d_{x1}\right)+$ $6\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)\left(b_{x1}\,d_{y1}-b_{y1}\,d_{x1}\right)^{2}\left(c_{x1}\,d_{y1}-c_{y1}\,d_{x1}\right)+10\left(a_{x1}\,b_{y1}-a_{y1}\,d_{x1}\right)^{2}$ $(a_{y1} b_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1}) (b_{x1} d_{y1} - b_{y1} d_{x1})^2 (c_{x1} c_{y2} - c_{x2} c_{y1}) - 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} b_{y1})^2 (a_{y1} c_{y2} - a_{y1} b_{y1} c_{y1} - a_{y1} b_{y1})^2 (a_{y1} c_{y2} - a_{y1} b_{y1} c_{y1} - a_{y1} b_{y1} c_{y1} c_{y1} + a_{y1} b_{y1} c_{y1} c_{y1} c_{y1} c_{y1} c_{y1} c_{y2} c_{y1} c_{y1}$ $(a_{y1} c_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1})^2 (c_{x1} d_{y2} - c_{y1} d_{x2}) + 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{x1} d_{y1} - a_{y1} b_{x1})^2 (b_{y1} c_{y1} - b_{y1} c_{y1}) (b_{y1} d_{y1} - a_{y1} b_{y1})^2 (b_{y1} c_{y1} - b_{y1} c_{y1}) (b_{y1} d_{y1} - a_{y1} b_{y1})^2 (b_{y1} c_{y1} - b_{y1} c_{y1}) (b_{y1} d_{y1} - a_{y1} b_{y1})^2 (b_{y1} c_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1})^2 (b_{y1} c_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1})^2 (b_{y1} c_{y1} - a_{y1} b_{y1} (b_{y1} d_{x1})^2 (c_{x1} c_{y2} - c_{x2} c_{y1}) - 6 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (b_{x1} d_{x1} - a_{y1$ $(b_{y1} d_{x1})^2 - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) (c_{x1} d_{y1} - b_{y1} d_{x2}) (c_$ $(c_{y1} d_{x1}) + 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) (c_{x1} d_{y2} - b_{y1} d_{x2}) (c_{x$ $c_{y1}\,d_{x2}) - 4\,(a_{x1}\,b_{y1} - a_{y1}\,b_{x1})^2\,(b_{x1}\,c_{y1} - b_{y1}\,c_{x1})\,(b_{x1}\,d_{y1} - b_{y1}\,d_{x1})\,(b_{x1}\,d_{y2} - b_{y1}\,d_{x2})\,(c_{x1}\,c_{y2} - b_{y1}\,d_{x2})$ $c_{x2} c_{y1}) + 12 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right) \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right)^2 \left(a_{x1} c_{y2} - a_{y1} c_{x2}\right) \left(c_{x1} d_{y2} - c_{y1} d_{x2}\right)^2 - c_{y1} d_{y2} + c_{y1} d_{$ $12\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{2}\left(b_{x1}\,c_{y2}-b_{y1}\,c_{x2}\right)\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)\left(c_{x1}\,d_{y2}-c_{y1}\,d_{x2}\right)+$ $6\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{2}\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)^{2}\left(c_{x1}\,d_{y2}-c_{y1}\,d_{x2}\right)+6\left(a_{x1}\,b_{y1}-a_{y1}\,c_{y2}\right)^{2}$ $(a_{x1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (b_{x1} d_{y2} - b_{y1} d_{x2})^2 (c_{x1} d_{y1} - c_{y1} d_{x1}) - 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a$ $(a_{u1} c_{x2}) (b_{x1} d_{y2} - b_{y1} d_{x2})^2 (c_{x1} d_{y2} - c_{y1} d_{x2}) - 10 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_$ $b_{y1} d_{x2})^2 (c_{x1} c_{y2} - c_{x2} c_{y1}) + 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2})^2 (c_{x1} c_{y2} - b_{y$ $(c_{x2} c_{y1}) - 24 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (c_{x1} d_{y1} - c_{y1} d_{x1})^2 - (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (c_{x1} d_{y1} - c_{y1} d_{x1})^2 - (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (c_{x1} d_{y1} - c_{y1} d_{x1})^2 - (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (c_{x1} d_{y1} - c_{y1} d_{x1})^2 - (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (c_{x1} d_{y1} - c_{y1} d_{x1})^2 - (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (c_{x1} d_{y1} - c_{y1} d_{x1})^2 - (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (c_{x1} d_{y1} - c_{y1} d_{x1})^2 - (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (c_{x1} d_{y1} - c_{y1} d_{x1})^2 - (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (c_{x1} d_{y1} - c_{y1} d_{x1})^2 - (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 - (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 - (a_{x1} c_{y1} d_{x1} - a_{y1} d_{x1})^2 - (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 - (a_{x1} c_{y1} d_{x1} - a_{y1} d_{x1} - a_{y1} d_{x1})^2 - (a_{x1} c_{y1} d_{x1} - a_{y1} d_{x1})^2 - (a_{x1} c_{y1} d_{x1} - a_{y1} d_{x1} - a_{y1} d_{x1})^2 - (a_{x1} c_{y1} d_{x1} - a_{y1} d_{x1} - a_{y1} d_{x1})^2 - (a_{x1} c_{y1} d_{x1} - a_{y1} d_{x1} - a_{y1} d_{x1})^2 - (a_{x1} c_{y1} d_{x1} - a_{y1} d_{x1} - a_{y1} d_{x1})^2 - (a_{x1} c_{y1} d_{x1} - a_{y1} d_{x1} - a_{y1} d_{x1})^2 - (a_{x1} c_{y1} d_{x1} - a_{y1} d_{x1} - a_{y1} d_{x1})^2 - (a_{x1} c_{y1} d_{x1} - a_{y1} d_{x1} - a_{y1} d_{x1})^2 - (a_{x1} c_{y1} d_{x1} - a_{y1} d_{x1} - a_{y1} d_{x1})^2 - (a_{x1} c_{y1} d_{x1} - a_{y1} d_{x1} - a_{y1} d_{x1})^2 - (a_{x1} c_{y1} d_{x1} - a_{y1} d_{x1}$ $6\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{\underline{2}}\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)\left(c_{x1}\,d_{y1}-c_{y1}\,d_{x1}\right)\left(c_{y2}\,d_{x1}-c_{x2}\,d_{y1}\right)+$ $84\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)\left(c_{x1}\,d_{y1}-c_{y1}\,d_{x1}\right)\left(c_{x1}\,d_{y2}-c_{y1}\,d_{x2}\right)+$ $24\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)^{2}\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)^{2}\left(b_{x1}\,c_{y1}-b_{y1}\,c_{x1}\right)-42\left(a_{x1}\,b_{y1}-a_{y1}\,d_{x2}\right)^{2}$ $(a_{x1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (c_{x1} d_{y2} - c_{y1} d_{x2})^2 + 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 + 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} d_{x2})^2 + 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} d_{x2})^2 + 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} d_{x2})^2 + 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} d_{x2})^2 + 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} d_{x2})^2 + 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} d_{x2})^2 + 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} d_{x2})^2 + 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 + 6$ $(a_{y1} c_{x1})^2 (c_{y2} d_{x1} - c_{x2} d_{y1}) (d_{x1} d_{y2} - d_{x2} d_{y1}) - 42 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (c_{x1} c_{y2} - a_{y1} d_{x2})^2 (c_{x1} c_{y1} - a_{y1} d_{x2})^2 (c_{x1} c_{y2} - a_$ $(c_{x2} c_{y1}) (c_{x1} d_{y1} - c_{y1} d_{x1}) + 24 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (c_{x1} d_{y2} - a_{y1} d_{x2}) (c_{x$ $(c_{y1} d_{x2})^2 + 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} c_{y1} - b_{y1} c_{x1})^2 (b_{x1} d_{y2} - b_{y1} d_{x2}) (c_{x2} d_{y2} - c_{y2} d_{x2}) - (c_{x2} d_{y2} - c$ $4(a_{x1}b_{y1}-a_{y1}b_{x1})^{2}(b_{x1}c_{y1}-b_{y1}c_{x1})^{2}(b_{x1}d_{y1}-b_{y1}d_{x1})(c_{y2}d_{x1}-c_{x2}d_{y1})-6(a_{x1}b_{y1}-b_{y1}d_{x1})(c_{y2}d_{x1}-c_{x2}d_{y1})$ $(a_{x1} \, d_{y2} - a_{y1} \, d_{x2})^2 \, (a_{x1} \, d_{y2} - a_{y1} \, d_{x2})^2 \, (b_{x1} \, d_{y2} - b_{y1} \, d_{x2}) \, (c_{x2} \, d_{y2} - c_{y2} \, d_{x2}) + 10 \, (a_{x1} \, c_{y2} - a_{y1} \, c_{x2}) \, (a_{x1} \, d_{y2} - a_$ $(a_{y1} d_{x2})^4 (b_{x1} c_{y1} - b_{y1} c_{x1}) + 6 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (c_{y2} d_{x1} - c_{x2} d_{y1}) +$ $10\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)^{4}\left(b_{x1}\,c_{y2}-b_{y1}\,c_{x2}\right)-2\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)^{4}$ $(a_{y1} d_{x1})^2 (b_{x1} c_{y1} - b_{y1} c_{x1})^3 + 10 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (c_{x1} c_{y2} - c_{x2} c_{y1}) (c_{x1} d_{y1} - c_{y1} d_{x1})^2 +$ $(2(a_{x1}c_{y1} - a_{y1}c_{x1})^3(b_{x1}c_{y2} - b_{y1}c_{x2})(b_{x1}d_{y1} - b_{y1}d_{x1})^2 - 6(a_{x1}b_{y1} - a_{y1}b_{x1})(a_{x1}c_{y1} - a_{y1}b_{x1})(a_{$ $(a_{y1} c_{x1})^2 (b_{x1} d_{y1} - b_{y1} d_{x1})^2 (c_{x1} c_{y2} - c_{x2} c_{y1}) + 8 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x1} d_{y1} - a_{y1} c_{x2})^3 (b_{y1} c_{y2} - b_{y1} c_{y2}) (b_{y1} d_{y1} - a_{y1} c_{y2})^3 (b_{y1} c_{y2} - b_{y1} c_{y2}) (b_{y1} d_{y1} - a_{y1} c_{y2})^3 (b_{y1} c_{y2} - b_{y1} c_{y2}) (b_{y1} d_{y1} - a_{y1} c_{y2})^3 (b_{y1} c_{y2} - a_{y1} c_{y2}) (b_{y1} d_{y1} - a_{y1} c_{y2})^3 (b_{y1} c_{y2} - a_{y1} c_{y2}) (b_{y1} d_{y1} - a_{y1} c_{y2})^3 (b_{y1} c_{y2} - a_{y1} c_{y2}) (b_{y1} d_{y1} - a_{y1} c_{y2})^3 (b_{y1} c_{y2} - a_{y1} c_{y2}) (b_{y1} d_{y1} - a_{y1} c_{y2})^3 (b_{y1} c_{y2} - a_{y1} c_{y2}) (b_{y1} d_{y1} - a_{y1} c_{y2})^3 (b_{y1} c_{y2} - a_{y1} c_{y2}) (b_{y1} d_{y1} - a_{y1} c_{y2})^3 (b_{y1} c_{y2} - a_{y1} c_{y2}) (b_{y1} d_{y1} - a_{y1} c_{y2})^3 (b_{y1} c_{y2} - a_{y1} c_{y2}) (b_{y1} d_{y1} - a_{y1} c_{y2})^3 (b_{y1} c_{y2} - a_{y1} c_{y2}) (b_{y1} d_{y1} - a_{y1} c_{y2})^3 (b_{y1} c_{y1} - a_{y1} c_{y2}) (b_{y1} d_{y1} - a_{y1} c_{y2})^3 (b_{y1} c_{y1} - a_{y1} c_{y2}) (b_{y1} d_{y1} - a_{y1} c_{y2})^3 (b_{y1} c_{y1} - a_{y1} c_{y2}) (b_{y1} d_{y1} - a_{y1} c_{y2}) (b_{$ $b_{y1} d_{x1}) \left(b_{x1} d_{y2} - b_{y1} d_{x2}\right) + 12 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right) \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right)^2 \left(b_{x1} c_{y1} - b_{y1} c_{x1}\right) \left(b_{x1} d_{y2} - b_{y1} c_{x1}\right) \left(b_{x1} d_{y2} - b_{y1} d_{x2}\right) + 12 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right) \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right)^2 \left(b_{x1} c_{y1} - b_{y1} c_{x1}\right) \left(b_{x1} d_{y2} - b_{y1} d_{x2}\right) + 12 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right) \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right)^2 \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right) \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right)^2 \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right) \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right)^2 \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right) \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right)^2 \left(a_{x1} c_{y1} - a_{y$ $b_{y1} d_{x2}$) $(c_{y2} d_{x1} - c_{x2} d_{y1}) - 12 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{x1} c_{y2} - a_{y1} d_{x2}) (a_{y1} c_{y1} - a_{y1} c_{y1}) (a_{y1} c_{y2} - a_{y1} d_{y2}) (a_{y1} c_{y1} - a_{y1} c_{y1}) (a_{y1} c_{y2} - a_{y1} d_{y2}) (a_{y1} c_{y1} - a_{y1} c_{y1}) (a_{y1} c_{y2} - a_{y1} d_{y2}) (a_{y1} c_{y1} - a_{y1} c_{y1}) (a_{y1} c_{y2} - a_{y1} d_{y2}) (a_{y1} c_{y1} - a_{y1} c_{y1}) (a_{$ $b_{y1}\,c_{x2})\,(b_{x1}\,d_{y1}-b_{y1}\,d_{x1}) + 4\,(a_{x1}\,c_{y2}-a_{y1}\,c_{x2})\,(a_{x1}\,d_{y1}-a_{y1}\,d_{x1})\,(a_{x1}\,d_{y2}-a_{y1}\,d_{x2})\,(b_{x1}\,c_{y1}-a_{y1}\,d_{x2})\,(a_{x2}\,d_{y1}-a_{y1}\,d_{x2})\,(a_{x2}\,d_{y1}-a_{y1}\,d_{x2})\,(a_{x2}\,d_{y2}-a_{y1}\,d_{x2})\,(a_{x2}\,d_{y1}-a_{y1}\,d_{x2})\,(a_{x2}\,d_{y2}-a_{y1}\,d_{x2})\,(a_{x2}\,d_{y2}-a_{y1}\,d_{x2})\,(a_{x2}\,d_{y1}-a_{y1}\,d_{x2})\,(a_{x2}\,d_{y2}-a_{y1}\,d_{x2})\,(a_{x2}\,d_{y2}-a_{y1}\,d_{x2})\,(a_{x2}\,d_{y2}-a_{y1}\,d_{x2})\,(a_{x2}\,d_{y2}-a_{y1}\,d_{x2})\,(a_{x2}\,d_{y2}-a_{y1}\,d_{x2})\,(a_{x2}\,d_{y2}-a_{y1}\,d_{x2})\,(a_{x2}\,d_{y2}-a_{y1}\,d_{x2})\,(a_{x2}\,d_{y2}-a_{y1}\,d_{x2})\,(a_{x2}\,d_{y2}-a_{y1}\,d_{x2})\,(a_{x2}\,d_{y2}-a_{y1}\,d_{x2})\,(a_{x2}\,d_{y2}-a_{y1}\,d_{x2})\,(a_{x2}\,d_{y2}-a_{y2}\,d_{x2})\,(a_{x2}\,d_{y2}-a_{y2}\,d_{x2})\,(a_{x2}\,d_{y2}-a_{y2}\,d_{x2})\,(a_{x2}\,d_{y2}-a_{y2}\,d_{x2})\,(a_{x2}\,d_{y2}-a_{y2}\,d_{x2})\,(a_{x2}\,d_{y2}-a_{y2}\,d_{x2})\,(a_{x2}\,d_{y2}-a_{y2}\,d_{x2})\,(a_{x2}\,d_{y2}-a_{y2}\,d_{x2})\,(a_{x2}\,d_{y2}-a_{y2}\,d_{x2})\,(a_{x2}\,d_{y2}-a_{y2}\,d_{y2})\,(a_{x2}\,d_{y2} (c_{x1} c_{y1})^3 - 20 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (c_{x1} c_{y2} - c_{x2} c_{y1}) (c_{x1} d_{y1} - c_{y1} d_{x1}) (c_{x1} d_{y2} - c_{y1} d_{x2}) - (c_{x1} c_{y2} - c_{y1} d_{x2}) - (c_{x1} c_{y2} - c_{y1} d_{x2})$ $4\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{3}\left(b_{x1}\,c_{y2}-b_{y1}\,c_{x2}\right)\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)^{2}+6\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{2}\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)^{2}$ $(a_{y1} c_{x2}) (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2})^{2} + 10 (a_{x1} b_{y1} - a_{y1} b_{x1})^{3} (c_{x1} c_{y2} - c_{x2} c_{y1}) (c_{x1} d_{y2} - a_{y1} c_{x2})^{2}$

 $(c_{y1} d_{x2})^2 - 2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (b_{x1} c_{y1} - b_{y1} c_{x1})^3 + 16 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} b_{x1$ $(a_{u1} d_{x1})^3 (b_{x1} c_{u2} - b_{u1} c_{x2}) (b_{x1} d_{u2} - b_{u1} d_{x2}) - 12 (a_{x1} b_{u1} - a_{u1} b_{x1})^2 (a_{x1} d_{u1} - a_{u1} d_{x1})^2 (b_{x1} c_{u2} - b_{u1} d_{x2})^2 (a_{x1} d_{u2} - b_{u1} d_{x2})^2 - 12 (a_{x1} b_{u1} - a_{u1} b_{x1})^2 (a_{x1} d_{u1} - a_{u1} d_{x1})^2 (a_{x1} d_{u2} - a_{u1} d_{x2})^2 - 12 (a_{x1} d_{u1} - a_{u1} d_{x1})^2 (a_{x1} d_{u1} - a_{u1} d_{x1})^2 (a_{x1} d_{u2} - a_{u1} d_{x1})^2 - 12 (a_{x1} d_{u1} - a_{u1} d_{x1})^2 - 12 (a_$ $b_{y1} c_{x2} (d_{x1} d_{y2} - d_{x2} d_{y1}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (b_{x1} d_{y2} - b_{y1} d_{x2}) (c_{y2} d_{x1} - a_{y1} d_{x2}) (c_{y$ $(c_{x2} d_{y1}) + 12 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} d_{y1} - a_{y1} d_{x2}) (b_{x1} d_{y1} - a_{y1} d_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x2}) (a_{x1}$ $b_{y1} d_{x1})^2 - 6 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right)^3 \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right) \left(c_{x2} d_{y2} - c_{y2} d_{x2}\right) \left(d_{x1} d_{y2} - d_{x2} d_{y1}\right) + \\$ $6\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(b_{x1}\,d_{y1}-b_{y1}\,d_{x1}\right)\left(c_{x2}\,d_{y2}-c_{y2}\,d_{x2}\right) 6\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)^{2}\left(b_{x1}\,d_{y1}-b_{y1}\,d_{x1}\right)^{2}-36\left(a_{x1}\,b_{y1}-a_{y1}\,d_{x2}\right)^{2}$ $a_{y1} b_{x1}$) $(a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1}) (b_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x2} d_{y2} - a_{y2} d_{x2}) (a_{x2} d_{$ $(b_{y1} d_{x2}) + 4 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2})^3 (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1}) +$ $12\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)^{2}\left(b_{x1}\,d_{y1}-b_{y1}\,d_{x1}\right)\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right) 24\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)^{2}\left(b_{x1}\,c_{y2}-b_{y1}\,c_{x2}\right)\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)+$ $12\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)^{2}+$ $12\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{4}\left(b_{x1}\,d_{y1}-b_{y1}\,d_{x1}\right)\left(c_{y2}\,d_{x1}-c_{x2}\,d_{y1}\right)-10\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{3}\left(a_{x1}\,d_{y1}-a_{y1}\,c_{x1}\right)^{3}$ $a_{y1}\,d_{x1})\,(b_{x1}\,c_{y1}-b_{y1}\,c_{x1})\,(c_{y2}\,d_{x1}-c_{x2}\,d_{y1}) + 6\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})^3\,(a_{x1}\,c_{y2}-a_{y1}\,c_{x2})\,(b_{x1}\,d_{y1}-a_{y1}\,c_{x2})^2$ $b_{y1} d_{x1}) \left(c_{x1} d_{y1} - c_{y1} d_{x1}\right) - 8 \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right)^3 \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right) \left(b_{x1} c_{y1} - b_{y1} c_{x1}\right) \left(c_{x2} d_{y2} - a_{y1} c_{x1}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right) \left(a_{x1} d_{y1} (c_{y2} d_{x2}) - 12 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1}) (c_{x1} c_{y2} - c_{x2} c_{y1}) - 0$ $12\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{2}\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)\left(c_{x1}\,c_{y2}-c_{x2}\,c_{y1}\right)\left(c_{x1}\,d_{y2}-c_{y1}\,d_{x2}\right)+$ $4\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{3}\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)\left(b_{x1}\,c_{y1}-b_{y1}\,c_{x1}\right)\left(d_{x1}\,d_{y2}-d_{x2}\,d_{y1}\right)+8\left(a_{x1}\,b_{y1}-a_{y1}\,c_{x2}\right)\left(b_{x1}\,c_{y1}-b_{y1}\,c_{x1}\right)\left(d_{x1}\,d_{y2}-d_{x2}\,d_{y1}\right)+8\left(a_{x1}\,b_{y1}-a_{y1}\,c_{x2}\right)\left(b_{x1}\,c_{y1}-b_{y1}\,c_{x1}\right)\left(d_{x1}\,d_{y2}-d_{x2}\,d_{y1}\right)+8\left(a_{x1}\,b_{y1}-a_{y1}\,c_{x2}\right)\left(b_{x1}\,c_{y1}-b_{y1}\,c_{x1}\right)\left(d_{x1}\,d_{y2}-d_{x2}\,d_{y1}\right)+8\left(a_{x1}\,b_{y1}-a_{y1}\,c_{x2}\right)\left(b_{x1}\,c_{y1}-b_{y1}\,c_{x2}\right)\left(d_{x1}\,d_{y2}-d_{x2}\,d_{y1}\right)+8\left(a_{x1}\,b_{y1}-a_{y2}\,c_{x2}\right)\left(b_{x1}\,c_{y1}-b_{y1}\,c_{x2}\right)\left(d_{x1}\,d_{y2}-d_{x2}\,d_{y1}\right)+8\left(a_{x1}\,b_{y1}-a_{y2}\,c_{x2}\right)\left(d_{x1}\,d_{y2}-d_{x2}\,d_{y1}\right)+8\left(a_{x1}\,b_{y1}-a_{y2}\,c_{x2}\right)\left(d_{x1}\,d_{y2}-d_{x2}\,d_{y1}\right)+8\left(a_{x1}\,b_{y1}-a_{y2}\,c_{x2}\right)\left(d_{x1}\,d_{y2}-d_{x2}\,d_{y1}\right)+8\left(a_{x1}\,b_{y1}-a_{y2}\,c_{x2}\right)\left(d_{x1}\,d_{y2}-d_{x2}\,d_{y1}\right)+8\left(a_{x1}\,b_{y1}-a_{y2}\,d_{y$ $(a_{y1} b_{x1})^3 (b_{x1} d_{y1} - b_{y1} d_{x1}) (c_{x1} d_{y1} - c_{y1} d_{x1}) (c_{y2} d_{x1} - c_{x2} d_{y1}) + 8 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} d_{x1}) (a_{x1$ $(a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1})^3 + 18 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (b_{x1} d_{y1} - b_{y1} d_{x1}) (c_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_$ $(c_{x2} c_{y1}) (d_{x1} d_{y2} - d_{x2} d_{y1}) - 54 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1}) (b_{x1} d_{y1} - b_{y1} d_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x1}) (b_{x1} d_{y1} - b_{y1} d_{x1}) (b_{x1} d_{x1} - b_{y1} d_{x1}) (b_{x$ $b_{y1} d_{x2}$) $(c_{x1} c_{y2} - c_{x2} c_{y1}) - 16 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (b_{x1} c_{y1} - b_{y1} c_{x1}) (c_{y2} d_{x1} - c_{x2} d_{y1}) (d_{x1} d_{y2} - c_{x2} c_{y1}) - 16 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (b_{x1} c_{y1} - b_{y1} c_{x1}) (c_{y2} d_{x1} - c_{x2} d_{y1}) (d_{x1} d_{y2} - c_{x2} c_{y1}) - 16 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (b_{x1} c_{y1} - b_{y1} c_{x1}) (c_{y2} d_{x1} - c_{x2} d_{y1}) (d_{x1} d_{y2} - c_{x2} c_{y1}) - 16 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (b_{x1} c_{y1} - b_{y1} c_{x1}) (c_{y2} d_{x1} - c_{x2} d_{y1}) (d_{x1} d_{y2} - c_{x2} c_{y1}) - 16 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (b_{x1} c_{y1} - b_{y1} c_{x1}) (c_{y2} d_{x1} - c_{x2} d_{y1}) (d_{x1} d_{y2} - c_{x2} c_{y1}) - 16 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (b_{x1} c_{y1} - b_{y1} c_{x1}) (c_{y2} d_{x1} - c_{x2} d_{y1}) (d_{x1} d_{y2} - c_{x2} c_{y1}) - 16 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (b_{x1} c_{y1} - b_{y1} c_{x1}) (c_{y2} d_{x1} - c_{x2} d_{y1}) (d_{x1} d_{y2} - c_{x2} c_{y1}) - 16 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (b_{x1} c_{y1} - b_{y1} c_{x1}) (c_{y2} d_{x1} - c_{x2} d_{y1}) (d_{x1} d_{y2} - c_{x2} c_{y1}) - 16 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (b_{x1} c_{y1} - b_{y1} c_{x1}) (c_{y2} d_{x1} - c_{x2} d_{y1}) (d_{x1} d_{y2} - c_{x2} c_{y1}) - 16 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (b_{x1} c_{y1} - b_{y1} c_{x1}) (c_{y2} d_{x1} - c_{x2} d_{y1}) (d_{x1} d_{y2} - c_{x2} c_{y1}) - 16 (a_{x1} d_{x1} - c_{x2} d_{y1}) (d_{x1} d_{y2} - c_{x2} d_{y1})$ $d_{x2} d_{y1}) + 24 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1}) (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) (c_{y2} d_{x1} - b_{y1} c_{x1}) (c_{y2} d_{x2} - b_{y1} d_{x2}) (c_{y2} d_{x1} - b_{y1} c_{x1}) (c_{y2$ $c_{x2}\,d_{y1}) - 24\,(a_{x1}\,b_{y1} - a_{y1}\,b_{x1})\,(a_{x1}\,c_{y2} - a_{y1}\,c_{x2})\,(a_{x1}\,d_{y1} - a_{y1}\,d_{x1})\,(b_{x1}\,c_{y1} - b_{y1}\,c_{x1})\,(b_{x1}\,d_{y1} - a_{y1}\,d_{x2})\,(a_{x1}\,d_{y1} - a_{y1}\,d_{x2})\,(a_{x1}\,d_{y1} - a_{y1}\,d_{x2})\,(a_{x1}\,d_{y2} - a_{y1}\,d_{x2})\,(a_{x2}\,d_{y2} - a_{y2}\,d_{y2})\,(a_{x1}\,d_{y2} - a_{y1}\,d_{x2})\,(a_{x2}\,d_{y2} - a_{y2}\,d_{y2})\,(a_{x2}\,d_{y2} - a_{y2}\,d_{y2})\,(a_{x2}\,$ $b_{y1} d_{x1}) \left(b_{x1} d_{y2} - b_{y1} d_{x2}\right) - 6 \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right)^4 \left(b_{x1} d_{y2} - b_{y1} d_{x2}\right) \left(c_{x2} d_{y2} - c_{y2} d_{x2}\right) - 4 \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right)^4 \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right) + 2 \left(a_{x1} d_{y1} - a_{y1} d_{x2}\right) + 2 \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right) + 2 \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right) + 2 \left(a_{x1} d_{y1} - a_{y1$ $(a_{y1} c_{x1})^3 (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} d_{y2} - b_{y1} d_{x2}) (c_{x1} c_{y2} - c_{x2} c_{y1}) + 10 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} d_{y2} - a_{y$ $a_{y1} d_{x2}$) $(b_{x1} c_{y2} - b_{y1} c_{x2}) (c_{x1} d_{y2} - c_{y1} d_{x2}) - 8 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (b_{x1} c_{y2} - b_{y1} c_{x2}) (c_{x1} d_{y2} - b_{y1} c_{x2})$ $c_{v1} d_{x2}) (d_{x1} d_{v2} - d_{x2} d_{v1}) - 28 (a_{x1} b_{v1} - a_{v1} b_{x1})^3 (b_{x1} d_{v2} - b_{v1} d_{x2}) (c_{x1} c_{v2} - c_{x2} c_{v1}) (d_{x1} d_{v2} - b_{v1} d_{x2}) (c_{x1} c_{v2} - c_{x2} c_{v1}) (d_{x1} d_{v2} - b_{v1} d_{x2}) (c_{x1} c_{v2} - c_{x2} c_{v1}) (d_{x1} d_{v2} - b_{v1} d_{x2}) (c_{x1} c_{v2} - c_{x2} c_{v1}) (d_{x1} d_{v2} - b_{v1} d_{x2}) (c_{x2} c_{v2} - c_{v2} c_{v1}) (d_{x2} d_{v2} - c_{v2} c_{v2}) (c_{x2} c_{v2} - c_{v2} c_{v2}) (c_{x2$ $d_{x2} d_{y1}) + 24 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (b_{x1} d_{y2} - b_{y1} d_{x2}) (c_{x1} d_{y2} - c_{y1} d_{x2}) (c_{y2} d_{x1} - c_{x2} d_{y1}) +$ $30\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)^{2}\left(c_{x1}\,c_{y2}-c_{x2}\,c_{y1}\right)+24\left(a_{x1}\,b_{y1}-a_{y1}\,d_{x2}\right)^{2}\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)^{2}$ $(a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2})^{2} + 8 (a_{x1} b_{y1} - a_{y1} c_{x2}) (a_{y1} c_{y1} - a_{y1} c_{y1}) (a_{y1} c_{y2} - a_{y1} c_{x2}) (a_{y1} c_{y1} - a_{y1} c_{y1}) (a_{$ $(a_{y1} b_{x1})^3 (b_{x1} d_{y2} - b_{y1} d_{x2}) (c_{x1} d_{y2} - c_{y1} d_{x2}) (c_{x2} d_{y2} - c_{y2} d_{x2}) - 8 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} b_{x1}) (a_{y1} c_{y1} - a_{y1} b_{y1}) (a_{y1$ $a_{y1} c_{x1} (a_{x1} c_{y2} - a_{y1} c_{x2}) (b_{x1} d_{y2} - b_{y1} d_{x2})^3 + 8 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^3 (b_{x1} c_{y1} - a_{y1} c_{x2})^3 + 6 (a_{x1} c_{y1} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^3 + 8 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^3 (b_{x1} c_{y1} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^3 + 8 (a_{x1} c_{y1} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^3 (a_{x1} d_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^3 + 8 (a_{x1} c_{y1} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^3 (a_{x1} d_{y2} - a_{y1} d_{x2})^3 + 8 (a_{x1} c_{y1} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^3 (a_{x1} d_{y2} - a_{$ $b_{y1} c_{x1} (b_{x1} c_{y2} - b_{y1} c_{x2}) - 12 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x1} d_{y1} - a_{y1} d_{x1})^2$ $(b_{y1} d_{x1}) - 12 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} c_{y1} - b_{y1} c_{x1})^2 +$ $12\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{2}\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)^{2}\left(b_{x1}\,c_{y2}-b_{y1}\,c_{x2}\right)\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)+12\left(a_{x1}\,c_{y1}-a_{y1}\,d_{x1}\right)^{2}\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)^{2}$ $(a_{x1} c_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1})^2 - 42 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_$ $(a_{x1} c_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (c_{x1} d_{y1} - c_{y1} d_{x1}) (c_{x2} d_{y2} - c_{y2} d_{x2}) + 36 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} b_{x1})^2$ $(a_{y1} c_{x1})^2 (c_{x2} d_{y2} - c_{y2} d_{x2}) (d_{x1} d_{y2} - d_{x2} d_{y1}) - 12 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} c_{x2})^2 (a_{x2} d_{y2} - a_{y1} c_{x2}) (a_{x2} d_{y2} - a_{y2} d_{y2}) (a_{x2} d_{y2} - a_{y1} c_{x2}) (a_{x2} d_{y2} - a_{y1} c_{x2}) (a_{x2} d_{y2} - a_{y1} c_{y2}) (a_{x2} d_{y2} - a_{y2} c_{y2}) ($ $a_{y1} d_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2})^{2} - 12 (a_{x1} c_{y1} - a_{y1} c_{x1})^{2} (a_{x1} d_{y2} - a_{y1} d_{x2})^{2} (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x1} d_{y1} - a_{y1} c_{x2})^{2} (a_{x1} d_{y2} - a_{y1} d_{x2})^{2} (a_{x1} d_{y$ $b_{y1} d_{x1}$) + 12 $(a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (b_{x1} c_{y1} - b_{y1} c_{x1})^2 - a_{y1} d_{x2}$

 $8\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)^{3}\left(b_{x1}\,c_{y1}-b_{y1}\,c_{x1}\right)\left(b_{x1}\,c_{y2}-b_{y1}\,c_{x2}\right)+12\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x2}\right)$ $(a_{x1} c_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x1} d_{y2} - b_{y1} d_{x2}) - 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_{$ $a_{y1} c_{x1}$) $(a_{x1} d_{y2} - a_{y1} d_{x2}) (c_{x1} d_{y2} - c_{y1} d_{x2}) (c_{x2} d_{y2} - c_{y2} d_{x2}) + 8 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} d_{x2}) (a_{y1} c_{y1} - a_{y1} d_{x2}) (a_{y2} - a_{y1} d_{x2}) (a_{y2$ $(a_{x1} c_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^3 (c_{x2} d_{y2} - c_{y2} d_{x2}) - 16 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^3 (a_{x1} d_{y2} - a_{y1} d_{x1})^3 (a_{x1} d_{y1} - a_{y1} d_{x1})^3 (a_{x1} d_{y2} - a_{y1} d_{x1})^3 (a_{x1} d_{y1} - a_{y1} d_{x1})^3 (a_{x1} d_{y1} - a_{y1} d_{x1})^3 (a_{x1} d_{y2} - a_{y1} d_{x1})^3 (a_{x1} d_{y1} - a_{y$ $(a_{y1} d_{x2}) (b_{x1} c_{y2} - b_{y1} c_{x2}) - 24 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} c_{x2}) (a_{x2} d_{y1} - a_{y1} d_{x2})^2 (a_{x2} d_{y2} - a_{y2} d_{x2})^2 (a_{x2} d_{x2} - a_{y2} d$ $(a_{y1} d_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1}) - 48 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^2$ $a_{y1}\,d_{x2})\,(c_{x1}\,d_{y1}-c_{y1}\,d_{x1})-12\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})^3\,(a_{x1}\,c_{y2}-a_{y1}\,c_{x2})\,(a_{x1}\,d_{y1}-a_{y1}\,d_{x1})\,(d_{x1}\,d_{y2}-a_{y1}\,c_{x2})$ $d_{x2} d_{y1}) + 18 \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right)^2 \left(a_{x1} c_{y2} - a_{y1} c_{x2}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right)^2 \left(c_{x1} d_{y2} - c_{y1} d_{x2}\right) - c_{y1} d_{y1} + c_{y2} d_{y1} d_{y2} + c_{y1} d_{y2} d_{y1} d_{y2} + c_{y1} d_{y2} d_{y1} d_{y2} + c_{y2} d_{y1} d_{y2} d_{y1} d_{y2} + c_{y1} d_{y2} d_{y1} d_{y2} d_{y2} d_{y1} d_{y2} d_{y2} d_{y1} d_{y2} d_{y2} d_{y1} d_{y2} d_{y1} d_{y2} d_{y1} d_{y2} d_{y1} d_{y2} d_{y1} d_{y2} d_{y2} d_{y1} d_{y2} d_{$ $24\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)^{3}\left(b_{x1}\,d_{y1}-b_{y1}\,d_{x1}\right)+24\left(a_{x1}\,b_{y1}-a_{y1}\,d_{x2}\right)^{3}$ $a_{y1} b_{x1}) \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right) \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right)^{2} \left(c_{x2} d_{y2} - c_{y2} d_{x2}\right) - 16 \left(a_{x1} c_{y2} - a_{y1} d_{x2}\right)^{2} \left(a_{x2} d_{y2} - a_{y$ $(a_{x1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2})^3 (b_{x1} c_{y1} - b_{y1} c_{x1}) - 12 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} c_{y2} - a_{y$ $(a_{x1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (d_{x1} d_{y2} - d_{x2} d_{y1}) - 18 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} c_{x2}) (a_{x$ $(a_{y1} d_{x2})^2 (c_{x1} d_{y1} - c_{y1} d_{x1}) - 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} c_{y1} - b_{y1} c_{x1})^2 (b_{x1} c_{y2} - b_{y1} c_{x2}) (d_{x1} d_{y2} - b_{y1} c_{x2}) (d$ $d_{x2}\,d_{y1}) - 8\,(a_{x1}\,b_{y1} - a_{y1}\,b_{x1})^2\,(b_{x1}\,c_{y1} - b_{y1}\,c_{x1})\,(b_{x1}\,c_{y2} - b_{y1}\,c_{x2})\,(b_{x1}\,d_{y2} - b_{y1}\,d_{x2})\,(c_{x1}\,d_{y1} - b_{y1}\,d_{x2})\,(c_{x1}$ $(c_{y1} d_{x1}) + 36 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (b_{x1} c_{y2} - b_{y1} c_{x2}) - (b_{x1} c_{y2} - b_{y1} c_{x2})^2 (b_{x1} c_{y2} - b_{y1} c_{x2}) - (b_{x1} c_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (b_{x1} c_{y2} - b_{y1} c_{x2}) - (b_{x1} c_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (b_{x1} c_{y2} - b_{y1} c_{x2}) - (b_{x1} c_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (b_{x1} c_{y2} - b_{y1} c_{x2}) - (b_{x1} c_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (b_{x1} c_{y2} - b_{y1} c_{x2}) - (b_{x1} c_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (b_{x1} c_{y2} - b_{y1} c_{x2}) - (b_{x1} c_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (b_{x1} c_{y2} - b_{y1} c_{x2}) - (b_{x1} c_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (b_{x1} c_{y2} - b_{y1} c_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (a_{x1} d_{y1} - a_$ $72\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)^{2}\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)+$ $72\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)^{2}\left(b_{x1}\,d_{y1}-b_{y1}\,d_{x1}\right)$ $c_2 = 3 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (c_{x1} d_{y1} - c_{y1} d_{x1})^2 + 6 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 + 6 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 + 6 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 + 6 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 + 6 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 + 6 (a_{x1} c_{y$ $a_{y1} c_{x2})^2 (b_{x1} d_{y1} - b_{y1} d_{x1})^2 + 21 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (c_{x1} c_{y2} - c_{x2} c_{y1})^2 +$ $9\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})^2\,(a_{x1}\,c_{y2}-a_{y1}\,c_{x2})^2\,(c_{x1}\,d_{y2}-c_{y1}\,d_{x2})^2+21\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})^2\,(a_{x1}\,d_{y2}-a_{y1}\,d_{y2})^2+21\,(a_{x1}\,a_{y1}-a_{y1}\,b_{x1})^2\,(a_{x1}\,a_{y2}-a_{y1}\,a_{x2})^2+21\,(a_{x1}\,a_{y1}-a_{y1}\,b_{x1})^2\,(a_{x1}\,a_{y2}-a_{y1}\,a_{x2})^2+21\,(a_{x1}\,a_{y1}-a_{y1}\,b_{x1})^2\,(a_{x1}\,a_{y2}-a_{y1}\,a_{x2})^2+21\,(a_{x1}\,a_{y1}-a_{y1}\,b_{x1})^2\,(a_{x1}\,a_{y2}-a_{y1}\,a_{x2})^2+21\,(a_{x1}\,a_{y1}-a_{y1}\,b_{x1})^2\,(a_{x1}\,a_{y2}-a_{y1}\,a_{x2})^2+21\,(a_{x1}\,a_{y1}-a_{y1}\,b_{x1})^2\,(a_{x1}\,a_{y2}-a_{y1}\,a_{x2})^2+21\,(a_{x1}\,a_{y1}-a_{y1}\,a_{y1})^2+21\,(a_{x1}\,a_{y1}-a_{y1}\,a_{y1})^2+21\,(a_{x1}\,a_{y1}-a_{y1}\,a_{y1})^2+21\,(a_{x1}\,a_{y1}-a_{y1}\,a_{y1})^2+21\,(a_{x1}\,a_{y1}-a_{y1}\,a_{y1})^2+21\,(a_{x1}\,a_{y1}-a_{y1}\,a_{y1})^2+21\,(a_{x1}\,a_{y1}-a_{y1}\,a_{y1})^2+21\,(a_{x1}\,a_{y1}-a_{y1}\,a_{y1})^2+21\,(a_{x1}\,a_{y1}-a_{y1}\,a_{y1})^2+21\,(a_{x1}\,a_{y1}-a_{y1}\,a_{y1})^2+21\,(a_{x1}\,a_{y1}-a_{y1}\,a_{y1})^2+21\,(a_{x1}\,a_{y1}-a_{y1}\,a_{y1})^2+21\,(a_{x1}\,a_{y1}-a_{y1}\,a_{y1})^2+21\,(a_{x1}\,a_{y1}-a_{y1}\,a_{y1})^2+21\,(a_{x1}\,a_{y1}-a_{y1}\,a_{y1})^2+21\,(a_{x1}\,a_{y1}-a_{y1}\,a_{y1})^2+21\,(a_{x1}\,a_{y1}-a_{y1}\,a_{y1})^2+21\,(a_{x1}\,a_{y1}-a_{y1}\,a_{y1}-a_{y1}\,a_{y1})^2+21\,(a_{x1}\,a_{y1}-a_{y1}\,a_{y1}-a_{y1}\,a_{y1})^2+21\,(a_{x1}\,a_{y1}-a_{y1}\,a_{y1}-a_{y1}\,a_{y1}-a_{y1}\,a_{y1})^2+21\,(a_{x1}\,a_{y1}-a_{y1}-a_{y1}\,a_{y1}-a_{y1}-a_{y1}\,a_{y1}-a_{y1}\,a_{y1}-a_{y1}-a_{y1}\,a_{y1}-a_{y1}-a_{$ $a_{y1} d_{x2})^2 \left(c_{x1} c_{y2} - c_{x2} c_{y1}\right)^2 - 12 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right)^2 \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right)^2 \left(c_{x2} d_{y2} - c_{y2} d_{x2}\right)^2 + \\$ $12\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)^{2}\left(c_{x1}\,d_{y2}-c_{y1}\,d_{x2}\right)^{2}-6\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)^{2}\left(a_{x1}\,d_{y2}-a_{y1}\,c_{x2}\right)^{2}$ $(a_{u1} d_{u2})^2 (b_{u1} c_{u1} - b_{u1} c_{u1})^2 + 6 (a_{u1} b_{u1} - a_{u1} b_{u1})^2 (b_{u1} c_{u2} - b_{u1} c_{u2})^2 (b_{u1} d_{u1} - b_{u1} d_{u1})^2 +$ $6(a_{x1}b_{y1} - a_{y1}b_{x1})^{2}(b_{x1}c_{y2} - b_{y1}c_{x2})^{2}(b_{x1}d_{y2} - b_{y1}d_{x2})^{2} + (a_{x1}b_{y1} - a_{y1}b_{x1})^{2}(b_{x1}c_{y1} - a_{y1}b_{x1})^{2}(b_{x1}c_{y2} - b_{y1}d_{x2})^{2} + (a_{x1}b_{y1} - a_{y1}b_{x1})^{2}(b_{x1}c_{y1} - a_{y1}b_{x1})^{2}(b_{x1}c_{y2} - b_{y1}c_{x2})^{2} + (a_{x1}b_{y1} - a_{y1}b_{x1})^{2}(b_{x1}c_{y1} - a_{y1}b_{x1})^{2}(b_{x1}c_{y2} - b_{y1}c_{x2})^{2} + (a_{x1}b_{y1} - a_{y1}b_{x1})^{2}(b_{x1}c_{y1} - a_{y1}b_{x1})^{2} + (a_{x1}b_{x1} - a_{x1}b_{x1})^{2} + (a_{x1}b_{x1} - a_{x1}b_{x1})^{2} + (a_{x1}b_{x1} - a_{x1}b_{x1})^{2}$ $(b_{y1} c_{x1})^2 (c_{x1} c_{y2} - c_{x2} c_{y1})^2 + 15 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^4 + 90 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^4 + 90 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^4 + 90 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^4 + 90 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^4 + 90 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^4 + 90 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^4 + 90 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^4 + 90 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^4 + 90 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^4 + 90 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^4 + 90 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^4 + 90 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^4 + 90 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^4 + 90 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^4 + 90 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^4 + 90 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^4 + 90 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^4 + 90 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^4 + 90 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^4 + 90 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^4 + 90 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^4 + 90 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x2})^4 + 90 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x2})^4 + 90 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x2})^4 + 90 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_$ $a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 + 15 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^4 + (a_{x1} c_{y1} - a_{y1} c_{x1})^4 (c_{x1} c_{y2} - a_{y1} c_{x2})^4 + (a_{x1} c_{y1} - a_{y1} c_{x2})^4 (c_{x1} c_{y2} - a_{y1} c_{x2})^4 + (a_{x1} c_{y1} - a_{y1} c_{x2})^4 (c_{x1} c_{y2} - a_{y1} c_{x2})^4 + (a_{x1} c_{y1} (a_{x1} \, d_{y1})^2 - 6 \, (a_{x1} \, b_{y2} - a_{y1} \, b_{x2}) \, (a_{x1} \, d_{y1} - a_{y1} \, d_{x1})^5 + 30 \, (a_{x1} \, b_{y2} - a_{y1} \, b_{x2}) \, (a_{x1} \, d_{y1} - a_{y1} \, d_{x1})^4 \, (a_{x1} \, d_{y2} - a_{y1} \, b_{x2})^2 + 30 \, (a_{x1} \, d_{y2} - a_{y1} \, b_{x2}) \, (a_{x1} \, d_{y1} - a_{y1} \, d_{x1})^4 \, (a_{x1} \, d_{y2} - a_{y1} \, b_{x2})^2 + 30 \, (a_{x1} \, d_{y2} - a_{y1} \, b_{x2}) \, (a_{x1} \, d_{y1} - a_{y1} \, d_{x1})^4 \, (a_{x1} \, d_{y2} - a_{y1} \, d_{x2})^4 \, (a_{x1} \, d$ $(a_{y1} d_{x2}) - 60 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^3 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 - 60 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x2})^2$ $(a_{x1} d_{x1})^3 (a_{x1} d_{y2} - a_{y1} d_{x2}) + 60 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^3 - (a_{x1} d_{y2}$ $30\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)^{4}-60\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)^{2}\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x2}\right)^{2}$ $(a_{x1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2})^3 + 6 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^5 - 2 (a_{x1} c_{y1} - a_{y1} c_{x1})^4 (b_{y2} c_{x1} - a_{y1} c_{x1})^4 + 6 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^5 - 2 (a_{x1} c_{y1} - a_{y1} c_{x1})^4 + 6 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^5 - 2 (a_{x1} c_{y1} - a_{y1} c_{x1})^4 + 6 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^5 - 2 (a_{x1} c_{y1} - a_{y1} c_{x1})^4 + 6 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^5 - 2 (a_{x1} c_{y1} - a_{y1} c_{x1})^4 + 6 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^5 - 2 (a_{x1} c_{y1} - a_{y1} c_{x1})^4 + 6 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^5 - 2 (a_{x1} c_{y1} - a_{y1} c_{x1})^4 + 6 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^5 - 2 (a_{x1} c_{y1} - a_{y1} c_{x1})^4 + 6 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^5 - 2 (a_{x1} c_{y1} - a_{y1} c_{x1})^4 + 6 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^5 - 2 (a_{x1} c_{y1} - a_{y1} c_{x1})^4 + 6 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^5 - 2 (a_{x1} c_{y1} - a_{y1} c_{x1})^4 + 6 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^5 - 2 (a_{x1} c_{y1} - a_{y1} c_{x1})^4 + 6 (a_{x1} d_{y2} - a_{y1} d_{x2})^5 - 2 (a_{x1} d_{y2}$ $(b_{x2} c_{y1}) (c_{x1} d_{y1} - c_{y1} d_{x1}) - 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} d_{y1} - b_{y1} d_{x1})^3 +$ $12\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(b_{x1}\,b_{y2}-b_{x2}\,b_{y1}\right)\left(b_{x1}\,d_{y1}-b_{y1}\,d_{x1}\right)^{2}\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)-12\left(a_{x1}\,b_{y1}-b_{y1}\,d_{x1}\right)^{2}\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)-12\left(a_{x1}\,b_{y1}-b_{y1}\,d_{x1}\right)^{2}\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)-12\left(a_{x1}\,b_{y1}-b_{y1}\,d_{x1}\right)^{2}\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)-12\left(a_{x1}\,b_{y1}-b_{y1}\,d_{x1}\right)^{2}\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)-12\left(a_{x1}\,b_{y1}-b_{y1}\,d_{x1}\right)^{2}\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)-12\left(a_{x1}\,b_{y1}-b_{y1}\,d_{x1}\right)^{2}\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)-12\left(a_{x1}\,b_{y1}-b_{y1}\,d_{x1}\right)^{2}\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)-12\left(a_{x1}\,b_{y1}-b_{y1}\,d_{x1}\right)^{2}\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)-12\left(a_{x1}\,b_{y1}-b_{y1}\,d_{x1}\right)^{2}\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)-12\left(a_{x1}\,b_{y1}-b_{y1}\,d_{x2}\right)+12\left(a_{x1}\,b_{y1}-b_{y1}\,d_{x1}\right)^{2}\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)-12\left(a_{x1}\,b_{y1}-b_{y1}\,d_{x1}\right)^{2}\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)-12\left(a_{x1}\,b_{y1}-b_{y1}\,d_{x1}\right)^{2}\left(b_{x1}\,d_{y1}-b_{y1}\,d_{x1}\right)+12\left(a_{x1}\,b_{y1}-b_{y1}\,d_{x1}\right)^{2}\left(b_{x1}\,d_{y1}-b_{y1}\,d_{x1}\right)+12\left(a_{x1}\,b_{y1}-b_{y1}\,d_{x1}\right)^{2}\left(b_{x1}\,d_{x1}-b_{y1}\,d_{x1}\right)+12\left(a_{x1}\,b_{y1}-b_{y1}\,d_{x1}\right)^{2}\left(b_{x1}\,d_{x1}-b_{y1}\,d_{x1}\right)+12\left(a_{x1}\,b_{y1}-b_{y1}\,d_{x1}\right)+12\left(a_{x1}\,b_{y1}-b_{y1}\,d_{x1}\right)^{2}\left(b_{x1}\,d_{x1}-b_{y1}\,d_{x1}\right)+12\left(a_{x1}\,b_{y1}-b_{y1}\,d_{x1}\right)^{2}\left(b_{x1}\,d_{x1}-b_{y1}\,d_{x1}\right)+12\left(a_{x1}\,b_{y1}-b_{y1}\,d_{x1}\right)+12\left(a_{x1}\,b_{y1}-b_{y1}\,d_{x1}\right)+12\left(a_{x1}\,b_{y1}-b_{y1}\,d_{x1}\right)+12\left(a_{x1}\,b_{y1}-b_{y1}\,d_{x1}\right)+12\left(a_{x1}\,b_{y1}-b_{y1}\,d_{x1}\right)+12\left(a_{x1}\,b_{y1}-b_{y1}\,d_{x1}\right)+12\left(a_{x1}\,b_{y1}-b_{y1}\,d_{x1}\right)+12\left(a_{x1}\,b_{y1}-b_{y1}\,d_{x1}\right)+12\left(a_{x1}\,b_{y1}-b_{y1}\,d_{x1}\right)+12\left(a_{x1}\,b_{y1}-b_{y1}\,d_{x1}\right)+12\left(a_{x1}\,b_{y1}-b_{y1}\,d_{x1}\right)+12\left(a_{x1}\,b_{y1}-b_{y1}\,d_{x1}\right)+12\left(a_{x1}\,b_{y1}-b_{y1}\,d_{x1}\right)+12\left(a_{x1}\,b_{y1}-b_{y1}\,d_{x1}\right)+12\left(a_{x1}\,b_{y1}-b_{y1}\,d_{x1}\right)+12\left(a_{x1}\,b_{y1}-b_{y1}\,d_{x1}\right)+12\left(a_{x1}\,b_{y1}-b_{y1}\,d_{x1}\right)+12\left(a_{x1}\,b_{y1}-b_{y1}-b_{y1}\,d_{x1}\right)+12\left(a_{x1}\,b_{y1}-b_{y1}-b_{y1}-b_{y1}-b_{y1}\right)+1$ $(a_{u1} b_{x1})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} d_{y1} - b_{y1} d_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2})^2 - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} c_{y2} - b_{y1} d_{x2})^2 - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} c_{y2} - b_{y1} d_{x2})^2 - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} c_{y2} - b_{y1} d_{x2})^2 - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} c_{y2} - b_{y1} d_{x2})^2 - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} c_{y2} - b_{y1} d_{x2})^2 - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} c_{y2} - b_{y1} d_{x2})^2 - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} c_{y2} - b_{y1} d_{x2})^2 - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} c_{y2} - b_{y1} d_{x2})^2 - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} c_{y2} - b_{y1} d_{x2})^2 - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} c_{y2} - b_{y1} d_{x2})^2 - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} c_{y2} - b_{y1} d_{x2})^2 - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} c_{y2} - b_{y1} d_{x2})^2 - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} c_{y1} - a_{y1} b_{x1})^2 - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} c_{y1} - a_{y1} b_{x1})^2 - 12 (a_{x1} b_{y1} - a_{y1} b_{x1} - a_{y1} b_{x1})^2 - 12 (a_{x1} b_{y1} - a_{y1} b_{x1} - a_{y1} b_{x1})^2 - 12 (a_{x1} b_{$ $b_{y1}\,c_{x2})^2\,(b_{x1}\,d_{y1} - b_{y1}\,d_{x1})\,(b_{x1}\,d_{y2} - b_{y1}\,d_{x2}) + 2\,(a_{x1}\,c_{y1} - a_{y1}\,c_{x1})^4\,(b_{y2}\,c_{x1} - b_{x2}\,c_{y1})\,(c_{x1}\,d_{y2} - a_{y1}\,c_{x1})^4\,(b_{y2}\,c_{x1} - a_{y1}\,c_{x1})^4\,(b_{y2}\,c_{y1} - a_{y1}\,c_{y1})^4\,(b_{y2}\,c_{y1} - a_{y1}\,c_{y1})^4\,(b_{y2}\,c_{y1} - a_{y1}\,c_{y1})^4\,(b_{y2}\,c$ $(c_{y1} d_{x2}) + 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} d_{y2} - b_{y1} d_{x2})^3 + 12 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} c_{y1}$ $a_{y1} c_{x2}$) $(a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x1} d_{y2} - b_{y1} d_{x2}) + 4 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} b_{x1}) (a_{x1}$ $(a_{y1} c_{x1})^2 (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{y2} c_{x1} - b_{x2} c_{y1}) (c_{x1} d_{y1} - c_{y1} d_{x1}) - 4 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} b_{x1}) (a_{x1$ $(a_{y1} c_{x1})^2 (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{y2} c_{x1} - b_{x2} c_{y1}) (c_{x1} d_{y2} - c_{y1} d_{x2}) - 2 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} b_{x1}) (a_{x1$ $(a_{u1} c_{x1})^2 (b_{x1} c_{y1} - b_{y1} c_{x1}) (c_{x1} c_{y2} - c_{x2} c_{y1})^2 - 2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} c_{y1} - b_{y1} c_{x1})^2 (b_{y2} c_{x1} - b_{y1} c_{x1})^2 (b_{y2} c_{y1} - b_{y1} c_{x1})^2 (b_{y2} c_{y1} - b_{y1} c_{y1})^2 (b_{y2} c_{y1} - b_{y1} c_{y1})^2 (b_{y2} c_{y1} - b_{y1} c_{y1} - b_{y1} c_{y1})^2 (b_{y2} c_{y1} - b_{y1$

 $b_{x2}\,c_{y1})\,(c_{x1}\,d_{y1}-c_{y1}\,d_{x1})+2\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})^2\,(b_{x1}\,c_{y1}-b_{y1}\,c_{x1})^2\,(b_{y2}\,c_{x1}-b_{x2}\,c_{y1})\,(c_{x1}\,d_{y2}-b_{y1}\,c_{x1})^2$ $(c_{y1} d_{x2}) - 72 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (c_{x1} d_{y1} - a_{y1} d_{x2}) (c_{x$ $(c_{y1} d_{x1}) - 48 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^3 (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{y2} c_{x1} - b_{x2} c_{y1}) +$ $144 \left(a_{x1} \, b_{y1} \, - \, a_{y1} \, b_{x1}\right) \left(a_{x1} \, b_{y2} \, - \, a_{y1} \, b_{x2}\right) \left(a_{x1} \, d_{y1} \, - \, a_{y1} \, d_{x1}\right)^2 \left(a_{x1} \, d_{y2} \, - \, a_{y1} \, d_{x2}\right) \left(c_{x1} \, d_{y2} \, - \, a_{y1} \, d_{x2}\right)$ $(c_{y1} d_{x2}) + 144 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (c_{x1} c_{y2} - a_{y1} d_{x2}) (a_{x2} d_{y1} - a_{y1} d_{x2}) (a_{x2} d_{y2} - a_{y2} d_{x2}) (a_{$ $(a_{x2} c_{y1}) + 36 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} d_{y1} - a_{y1} d_{x2})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x2}) (a_$ $b_{y1} d_{x1}$) - 18 $(a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} d_{y2} - a_{y1} d_{x2})$ $(b_{y1} d_{x2}) - 18 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} c_{y2} - b_{y1} c_{x2})^2 +$ $6\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{2}\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)^{2}\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(b_{y2}\,c_{x1}-b_{x2}\,c_{y1}\right)-144\left(a_{x1}\,b_{y1}-a_{y1}\,d_{x2}\right)$ $a_{y1} b_{x1}) \left(a_{x1} b_{y2} - a_{y1} b_{x2}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right) \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right)^{2} \left(c_{x1} d_{y2} - c_{y1} d_{x2}\right) - 144 \left(a_{x1} b_{y1} - a_{y1} d_{x2}\right)^{2} \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right)^{2} \left(a_{x1} d_{y1} - a_{$ $(a_{x1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (c_{x1} c_{y2} - c_{x2} c_{y1}) + 36 (a_{x1} b_{y1} - a_{y1} d_{x2})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_$ $(a_{x1} b_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) + 18 (a_{x1} b_{y1} - b_{y1} d_{y2}) + 18 (a_{x1} b_{y1} - b_{y1} d_{y2}) + 18 (a_{y1} b_{y1} - b_{y1} d_{y2}) + 18 (a_{y1$ $(a_{u1} b_{x1}) (a_{x1} d_{u1} - a_{u1} d_{x1}) (a_{x1} d_{u2} - a_{u1} d_{x2})^2 (b_{x1} c_{u2} - b_{u1} c_{x2})^2 - 6 (a_{x1} c_{u1} - a_{u1} c_{x1})^2 (a_{x1} d_{u1} - a_{$ $a_{y1} d_{x1}) \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right)^2 \left(b_{y2} c_{x1} - b_{x2} c_{y1}\right) + 24 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right) \left(a_{x1} b_{y2} - a_{y1} b_{x2}\right) \left(a_{x1} d_{y1} - a_{y1} b_{x2}\right) \left(a_{x1} d_{y1} - a_{y1} b_{x2}\right) \left(a_{x1} d_{y2} - a_{y1} b_{x2}\right) \left(a_{x1} d_{y1} - a_{y1} b_{x2}\right) \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right)^2 \left(a_{x1} d_{y1} - a_{y1} d_{x2}\right)^2 \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right)^2 \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right)^2 \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right)^2 \left(a_{x1} d_{y1} - a_{y1} d_{x2}\right)^2 \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right)^2 \left(a_{x1} d_{y1} - a_{y1} d_{x2}\right)^2 \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right)^2 \left(a_{x1} d_{y1} - a_{y1} d_{x2}\right)^2 \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right)^2 \left(a_{x1} d_{y1} - a_{y1} d_{x2}\right)^2 \left(a_{x1} d_{x2}\right)^2 \left($ $(a_{y1} d_{x1})^3 (c_{x1} d_{y1} - c_{y1} d_{x1}) - 4 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^4 (b_{y2} c_{x1} - b_{x2} c_{y1}) +$ $10\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)^{4}\left(b_{x1}\,b_{y2}-b_{x2}\,b_{y1}\right)-24\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,c_{y2}-a_{y1}\,b_{x1}\right)$ $(a_{x1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^3 (c_{x1} c_{y2} - c_{x2} c_{y1}) - 4 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^3 (b_{x1} b_{y2} - a_{y1} d_{x1})^3 (a_{x1} d_{y1} - a_{y1$ $(b_{x2} b_{y1}) (b_{x1} d_{y1} - b_{y1} d_{x1}) + 6 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^3 (b_{x1} c_{y2} - b_{y1} c_{x2})^2 - (a_{x1} b_{y1} - a_{y1} d_{x1})^3 (a_{x1} c_{y2} - b_{y1} c_{x2})^2 - (a_{x1} b_{y1} - a_{y1} d_{x1})^3 (a_{x1} c_{y2} - b_{y1} c_{x2})^2 - (a_{x1} b_{y1} - a_{y1} d_{x1})^3 (a_{x1} c_{y2} - b_{y1} c_{x2})^2 - (a_{x1} b_{y1} - a_{y1} d_{x1})^3 (a_{x1} c_{y2} - b_{y1} c_{x2})^2 - (a_{x1} b_{y1} - a_{y1} d_{x1})^3 (a_{x1} c_{y2} - b_{y1} c_{x2})^2 - (a_{x1} b_{y1} - a_{y1} d_{x1})^3 (a_{x1} c_{y2} - b_{y1} c_{x2})^2 - (a_{x1} b_{y1} - a_{y1} d_{x1})^3 (a_{x1} c_{y2} - b_{y1} c_{x2})^2 - (a_{x1} b_{y1} - a_{y1} d_{x1})^3 (a_{x1} c_{y2} - b_{y1} c_{x2})^2 - (a_{x1} b_{y1} - a_{y1} d_{x1})^3 (a_{x1} c_{y2} - b_{y1} c_{x2})^2 - (a_{x1} b_{y1} - a_{y1} d_{x1})^3 (a_{x1} c_{y2} - b_{y1} c_{x2})^2 - (a_{x1} b_{y1} - a_{y1} d_{x1})^3 (a_{x1} c_{y2} - b_{y1} c_{x2})^2 - (a_{x1} b_{y1} - a_{y1} d_{x1})^3 (a_{x1} c_{y2} - b_{y1} c_{x2})^2 - (a_{x1} b_{y1} - a_{y1} d_{x1})^3 (a_{x1} c_{y2} - a_{y1} d_{x1})^3 (a_{x1} c_{y2} - a_{y1} d_{x1})^3 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 - (a_{x1} c_{y1} - a_{y1} d_{x1})^3 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 - (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 - (a_{x1} c_{y1} - a_{y1} c_{y2} - a_{y1} c_{x2})^2 - (a_{x1} c_{y1} - a_{y1} c_{y2} - a_{y1} c_{y2})^2 - (a_{x1} c_{y1} - a_{y1} c_{y2} - a_{y1} c_{y2})^2 - (a_{x1} c_{y2} - a_{y1} c_{y2} - a_{y1} c_{y2})^2 - (a_{x1} c_{y2} - a_{y1} c_{y2} - a_{y1} c_{y2})^2 - (a_{x1} c_{y2} - a_{y1} c_{y2} - a_{y1} c_{y2})^2 - (a_{x1} c_{y2} - a_{y1} c_{y2} - a_{y1} c_{y2})^2 - (a_{x1} c_{y2} - a_{y1} c_{y2} - a_{y1} c_{y2})^$ $8\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{2}\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)^{3}\left(b_{y2}\,c_{x1}-b_{x2}\,c_{y1}\right)+24\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x1}\right)$ $(a_{x1} b_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^3 (c_{x1} d_{y2} - c_{y1} d_{x2}) + 6 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2})^4 (b_{y2} c_{x1} - a_{y1} d_{x2})^4 (a_{y1} d_{y2} - a_{y1} d_{y2})^4 (a_{y2} d_{y2} - a_{y1$ $(b_{x2} c_{y1}) + 48 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^3 (c_{x1} c_{y2} - c_{x2} c_{y1}) 10\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)^{3}\left(b_{x1}\,b_{y2}-b_{x2}\,b_{y1}\right)\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)-6\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x2}\right)$ $(a_{y1} b_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2})^3 (b_{x1} c_{y2} - b_{y1} c_{x2})^2 + 8 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^3 (b_{y2} c_{x1} - a_{y1} c_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^3 (b_{y2} c_{x1} - a_{y1} c_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^3 (b_{y2} c_{x1} - a_{y1} c_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^3 (a_{x1} d_{y2} - a$ $(b_{x2} c_{y1}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) (c_{x1} d_{y1} - b_{y1} d_{x2}) (c_{x$ $c_{y1}\,d_{x1}) + 12\,(a_{x1}\,b_{y1} - a_{y1}\,b_{x1})^2\,(a_{x1}\,b_{y2} - a_{y1}\,b_{x2})\,(b_{x1}\,d_{y1} - b_{y1}\,d_{x1})\,(b_{x1}\,d_{y2} - b_{y1}\,d_{x2})\,(c_{x1}\,d_{y2} - b_{y1}\,d_{x2})$ $(c_{y1} d_{x2}) + 24 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) (c_{x1} c_{y2} - a_{y1} c_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) (c_{x1} c_{y2} - a_{y1} c_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) (c_{x1} c_{y2} - a_{y1} c_{x2}) (c_{x$ $(c_{x2} c_{y1}) - 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{x1} d_{y1} - b_{y1} d_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) (b_{y2} c_{x1} - b_{y1} d_{x2}) (b_{y2$ $(b_{x2} c_{y1}) + 24 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (b_{x1} d_{y1} - b_{y1} d_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) (b_{y2} c_{x1} - a_{y1} c_{x1})^2 (b_{x1} d_{y1} - b_{y1} d_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) (b_{y2} c_{x1} - a_{y1} c_{x1})^2 (b_{x1} d_{y1} - a_{y1} d_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) (b_{y2} c_{x1} - a_{y1} c_{x1})^2 (b_{x1} d_{y1} - a_{y1} d_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) (b_{y2} c_{x1} - a_{y1} c_{x1})^2 (b_{x1} d_{y1} - a_{y1} d_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) (b_{y2} c_{x1} - a_{y1} c_{x1})^2 (b_{x1} d_{y1} - a_{y1} d_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) (b_{y2} c_{x1} - a_{y1} c_{x1})^2 (b_{x1} d_{y1} - a_{y1} d_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) (b_{y2} c_{x1} - a_{y1} d_{x1}) (b_{y1} d_{y1} - a_{y1} d_{x1}) (b_{y1} d_{y1} - a_{y1} d_{x1}) (b_{y2} d_{y1} - a_{y1} d_{x1}) (b_{y2} d_{y1} - a_{y1} d_{x1}) (b_{y2} d_{y1} - a_{y1} d_{y1}) (b_{y2} d_{y1} - a_{y1} d_{y2}) (b_{y2} d_{y1} - a_{y1} d_{y1}) (b_{y2} d_{y1} - a_{y1} d_{y2}) (b_{y2} d_{y2} - a_{y1} d$ $(b_{x2} c_{y1}) + 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1})^2 (c_{x1} d_{y1} - c_{y1} d_{x1}) +$ $10\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)\left(b_{x1}\,d_{y1}-b_{y1}\,d_{x1}\right)^{2}\left(b_{y2}\,c_{x1}-b_{x2}\,c_{y1}\right)-6\left(a_{x1}\,b_{y1}-a_{y1}\,d_{x1}\right)^{2}$ $(a_{x1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1})^2 (c_{x1} d_{y2} - c_{y1} d_{x2}) + 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} b_{x2}) + 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} b_{x2}) + 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} b_{x2}) + 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} b_{x2}) + 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} b_{x2}) + 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} b_{x2}) + 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} b_{x2}) + 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} b_{x1})^2 + 12 (a_{x1} c_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} b_{x1})^2 + 12 (a_{x1} c_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} b_{x1})^2 + 12 (a_{x1} c_{y1} - a_{y1} b_{x1})^2 + 12 (a_$ $(a_{u1} c_{x2}) (b_{x1} d_{u1} - b_{u1} d_{x1})^2 (c_{x1} c_{u2} - c_{x2} c_{u1}) + 6 (a_{x1} b_{u1} - a_{u1} b_{x1})^2 (b_{x1} c_{u1} - b_{u1} c_{x1}) (b_{x1} d_{u1} - a_{u1} b_{x1})^2 (b_{x1} c_{u1} - b_{u1} c_{x1}) (b_{x1} d_{u1} - a_{u1} b_{x1})^2 (b_{x1} c_{u1} - b_{u1} c_{x1}) (b_{x1} d_{u1} - a_{u1} b_{x1})^2 (b_{x1} c_{u1} - b_{u1} c_{x1}) (b_{x1} d_{u1} - a_{u1} b_{x1})^2 (b_{x1} c_{u1} - a_{u1} b_{x$ $(b_{y1} d_{x1})^2 (b_{y2} c_{x1} - b_{x2} c_{y1}) - 6 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (b_{x1} d_{y1} - a_{y1} d_{x1})^2 (b_{y1} d_{y1} - a_{y1} d_{y1})^2 (b_{y2} c_{x1} - b_{y2} c_{y1}) - 6 (a_{y1} b_{y1} - a_{y1} b_{x1}) (a_{y1} b_{y2} - a_{y1} b_{x2}) (a_{y1} d_{y1} - a_{y1} d_{x1})^2 (b_{y1} d_{y1} - a_{y1} d_{y1})^2 (b_{y2} c_{x1} - b_{y2} c_{y1}) - 6 (a_{y1} b_{y1} - a_{y1} b_{x1}) (a_{y1} d_{y1} - a_{y1} d_{y1})^2 (b_{y2} c_{x1} - a_{y1} d_{x1})^2 (b_{y2} c_{x1} - a_{y1} d_{x1})^2 (b_{y1} d_{y1} - a_{y1} d_{y1})^2 (b_{y2} c_{x1} - a_{y1} d_{x1})^2 (b_{y2} c_{x1} - a_{y1}$ $(b_{y1} d_{x1})^2 - 12 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (b_{x1} d_{y1} - b_{y1} d_{x1})^2 (b_{y2} c_{x1} - b_{x2} c_{y1}) +$ $6(a_{x1}b_{y1}-a_{y1}b_{x1})^2(a_{x1}b_{y2}-a_{y1}b_{x2})(b_{x1}d_{y2}-b_{y1}d_{x2})^2(c_{x1}d_{y1}-c_{y1}d_{x1})-6(a_{x1}b_{y1}-a_{y1}b_{x2})^2(a_{x1}b_{y1}-a_{y1}b_{x2})^2$ $(a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (b_{x1} d_{y2} - b_{y1} d_{x2})^2 (c_{x1} d_{y2} - c_{y1} d_{x2}) - 10 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (a_{y1} d_{y2} - a_{y1} d_{y2})^2 (a_{y1} d_{y2} - a_$ $(a_{y1} d_{x2}) (b_{x1} d_{y2} - b_{y1} d_{x2})^2 (b_{y2} c_{x1} - b_{x2} c_{y1}) - 18 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (b_{x1} d_{y2} - a_{y1} c_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_$ $b_{y1}\,d_{x2})^2\,(c_{x1}\,c_{y2}-c_{x2}\,c_{y1})+6\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})^2\,(b_{x1}\,c_{y1}-b_{y1}\,c_{x1})\,(b_{x1}\,d_{y2}-b_{y1}\,d_{x2})^2\,(b_{y2}\,c_{x1}-b_{y1}\,d_{x2})^2$ $b_{x2} c_{y1}$) - 12 $(a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (b_{x1} d_{y2} - b_{y1} d_{x2})^2 (b_{y2} c_{x1} - b_{x2} c_{y1}) +$ $12\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{2}\left(c_{x1}\,d_{y1}-c_{y1}\,d_{x1}\right)^{2}-12\left(a_{x1}\,b_{y1}-a_{y1}\,c_{x1}\right)^{2}$ $(a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (c_{x1} d_{y1} - c_{y1} d_{x1}) (c_{x1} d_{y2} - c_{y1} d_{x2}) - 12 (a_{x1} b_{y1} - a_{y1} c_{x1})^2 (a_{x1} c_{y1} - a_{y1}$

 $a_{y1}\,b_{x1})\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})^2\,(a_{x1}\,c_{y2}-a_{y1}\,c_{x2})\,(c_{x1}\,c_{y2}-c_{x2}\,c_{y1})\,(c_{x1}\,d_{y1}-c_{y1}\,d_{x1})+12\,(a_{x1}\,b_{y1}-a_{y1}\,c_{x1})^2$ $(a_{x1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (b_{x1} c_{y2} - b_{y1} c_{x2})^2 (c_{x1} d_{y1} - c_{y1} d_{x1}) + 12 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} c_{y2} - a_$ $(a_{y1} c_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x1}) (c_{x1} d_{y1} - c_{y1} d_{x1}) - 6 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x1} d_{y2} - a_{y1} c_{y1} c_{y2})^2 (a_{x1} d_{y2} - a_{y1} c_{y2} - a_{y1} c_{y2})^2 (a_{x1} d_{y2} - a_{y1} c_{y2} - a_{y1} c_{y2})^2 (a_{x1} d_{y2}$ $(a_{y1} d_{x2}) (c_{x1} d_{y1} - c_{y1} d_{x1}) + 12 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (c_{x1} d_{y2} - a_{y1} d_{x2})$ $(c_{y1} d_{x2})^2 + 12 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (c_{x1} c_{y2} - c_{x2} c_{y1}) (c_{x1} d_{y2} - a_{y1} c_{x2}) (c_{x1} c_{y2} - c_{x2} c_{y1}) (c_{x1} d_{y2} - a_{y1} c_{x2}) (c_{x1} c_{y2} - c_{x2} c_{y1}) (c_{x1} d_{y2} - a_{y1} c_{x2}) (c_{x1} c_{y2} - c_{x2} c_{y1}) (c_{x1} d_{y2} - a_{y1} c_{x2}) (c_{x1} c_{y2} - c_{x2} c_{y1}) (c_$ $(c_{y1} d_{x2}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (b_{x1} c_{y2} - b_{y1} c_{x2})^2 (c_{x1} d_{y2} - c_{y1} d_{x2}) +$ $12\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{2}\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)^{2}\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(c_{x1}\,d_{y2}-c_{y1}\,d_{x2}\right)-24\left(a_{x1}\,b_{y1}-a_{y1}\,d_{x2}\right)^{2}$ $(a_{x1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (c_{x1} d_{y1} - c_{y1} d_{x1})^2 + 84 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x1})^2 + 84 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x1})^2 + 84 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 + 84 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x1})^2 + 84 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 + 84 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 + 84 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 + 84 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y1} - a$ $a_{y1} b_{x2}$) $(a_{x1} d_{y1} - a_{y1} d_{x1}) (c_{x1} d_{y1} - c_{y1} d_{x1}) (c_{x1} d_{y2} - c_{y1} d_{x2}) - 36 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} d_{x2}) - 36 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} d_{x2}) - 36 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} d_{x1}) (a_{x1} c_{y2} - a_{y1} d_{x$ $(a_{y1} c_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (c_{x1} d_{y1} - c_{y1} d_{x1}) - 40 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^3 (a_{x1} d_{y2} - a_{y1} d_{x1})^3 (a_{y1} d_{y2} - a_{y1} d_{y2})^3 (a_{y1} d_{y1} - a_{y1} d_{y1})^3 (a_{y1} d_{y2} - a_{y1} d_{y1})^3 (a_{y1} d_{y1} - a_{y1} d_{y1} - a_{y1} d_{y1})^3 (a_{y1} d_{y1} - a_{y1} d_{y1} - a_{y1} d_{y1})^3 (a_{y1} d_{y1} - a_{y1} d_{y1} - a_{y1} d_{y1} - a_{y1} d_{y1})^3 (a_{y1} d_{y1} - a_{y1} d_{y1} - a_{y1}$ $(a_{y1} d_{x2}) (b_{x1} c_{y1} - b_{y1} c_{x1}) - 20 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^3 (b_{x1} c_{y1} - b_{y1} c_{x1}) +$ $60\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)^{2}\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)^{2}\left(b_{x1}\,c_{y1}-b_{y1}\,c_{x1}\right)+60\left(a_{x1}\,c_{y2}-a_{y1}\,d_{x2}\right)^{2}\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)^{2}$ $(a_{u1} c_{x2})^2 (a_{x1} d_{u1} - a_{u1} d_{x1})^2 (a_{x1} d_{u2} - a_{u1} d_{x2}) (b_{x1} c_{u1} - b_{u1} c_{x1}) - 36 (a_{x1} b_{u1} - a_{u1} b_{x1})^2 (a_{x1} b_{u2} - a_{u1} d_{x2}) (a_{x1} d_{u2} - a_{u1} d_{x2}) (a_{x1} d_{u1} - a_{u1} d_{x2}) - 36 (a_{x1} d_{u1} - a_{u1} d_{x1})^2 (a_{x1} d_{u2} - a_{u1} d_{x2}) (a_{x1} d_{u1} - a_{u1} d_{x2}) (a_{x1} d_{u2} - a_{u1} d_{x2}) (a_{x1} d_{u1} - a_{u1} d_{x2}) (a_{x1} d_{u1} - a_{u1} d_{x2}) (a_{x1} d_{u2} - a_{u1} d_{x2}) (a_{x1} d_{u1} - a_{u1} d_{x2}) (a_{x1} d_{u1} - a_{u1} d_{x2}) (a_{x1} d_{u2} - a_{u1} d_{x2}) (a_{x1} d_{u1} - a_{u1} d_{x2}) (a_{x1} d_{u2} - a_{u1} d_{u2}) (a_{x1} d_{u2} - a_{u1} d_$ $(a_{u1} b_{u2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (c_{x1} d_{y1} - c_{y1} d_{x1}) (c_{x1} d_{y2} - c_{y1} d_{x2}) + 24 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} d_{x2}) + 24 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} d_{x2}) + 24 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} d_{x2}) + 24 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} d_{x2}) + 24 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} d_{x2}) + 24 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} d_{x2}) + 24 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} d_{x2}) + 24 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} d_{x2}) + 24 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} d_{x2}) + 24 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} d_{x2}) + 24 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} d_{x2}) + 24 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} d_{x2}) + 24 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} d_{x1}) + 24 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} d_{x1}) + 24 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1}) + 24 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1}) + 24 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1}) + 24 (a_{x1} b_{y1} -$ $(a_{u1} b_{u2}) (a_{x1} d_{u2} - a_{u1} d_{x2}) (c_{x1} d_{u2} - c_{u1} d_{x2})^2 - 18 (a_{x1} b_{u1} - a_{u1} b_{x1})^2 (a_{x1} d_{u2} - a_{u1} d_{x2}) (b_{x1} c_{u2} - a_{u1} d_{x2}) (b_{x1} c_{u2} - a_{u1} d_{x2}) (a_{x1} d_{u2} - a_{u1} d_{u2}) (a_$ $(b_{y1} c_{x2})^2 (c_{x1} d_{y2} - c_{y1} d_{x2}) - 64 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2})^3 (b_{x1} c_{y1} - a_{y1} d_{x2})^3 (a_{x1} d_{y2} - a_{y1} d_{x2})^3 (a_{x1} d_{y1} - a_{y1} d_{x2})^3 (a_{x1} d_{y2} - a_{y1} d_{x2})^3 (a_{x1} d_{y2} - a_{y1} d_{x2})^3 (a_{x1} d_{y1} - a_{y1} d_{x2})^3 (a_{x1} d_{y2} - a_{y1} d_{x2})^3 (a_{x1} d_{y1} - a_{y$ $(b_{y1} c_{x1}) - 60 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (b_{x1} c_{y1} - b_{y1} c_{x1}) +$ $10\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)^{4}\left(b_{x1}\,c_{y1}-b_{y1}\,c_{x1}\right)+8\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)^{2}\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)^{2}$ $(a_{y1} d_{x2})^3 (b_{x1} c_{y1} - b_{y1} c_{x1}) + 42 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (c_{x1} c_{y2} - a_{y1} c_{x2}) (c_$ $c_{x2}\,c_{y1})\,(d_{x1}\,d_{y2}-d_{x2}\,d_{y1})-2\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})^2\,(b_{x1}\,c_{y1}-b_{y1}\,c_{x1})\,(b_{x1}\,c_{y2}-b_{y1}\,c_{x2})^2\,(c_{x1}\,d_{y1}-a_{y1}\,d_{y1})^2$ $(c_{y1} d_{x1}) + 2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{x1} c_{y2} - b_{y1} c_{x2})^2 (c_{x1} d_{y2} - c_{y1} d_{x2}) +$ $4\left(a_{x1}\,b_{u1}-a_{y1}\,b_{x1}\right)^{2}\left(b_{x1}\,c_{y1}-b_{y1}\,c_{x1}\right)\left(b_{x1}\,c_{y2}-b_{y1}\,c_{x2}\right)\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)\left(c_{x1}\,c_{y2}-c_{x2}\,c_{y1}\right)-\left(c_{x1}\,c_{y2}-c_{x2}\,c_{y1}\right)^{2}$ $4\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(b_{x1}\,c_{y1}-b_{y1}\,c_{x1}\right)\left(b_{x1}\,c_{y2}-b_{y1}\,c_{x2}\right)\left(b_{x1}\,d_{y1}-b_{y1}\,d_{x1}\right)\left(c_{x1}\,c_{y2}-c_{x2}\,c_{y1}\right) 24\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)^{3}\left(b_{x2}\,d_{y2}-b_{y2}\,d_{x2}\right)-6\left(a_{x1}\,c_{y1}-a_{y1}\,d_{x1}\right)^{3}$ $(a_{x1} c_{y1})^3 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (c_{x2} d_{y2} - c_{y2} d_{x2}) + 6 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} c_{y2} - a_{y1} c_{x2}) + 6 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} c_{y2} - a_{y1} c_{x2}) + 6 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} c_{y2} - a_{y1} c_{x1})^3 (a_{x1} c_{y2} - a_{y1} c_{x2}) + 6 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} c_{y2} - a_{y1} c_{x2}) + 6 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (a_{x1} c_{y2}$ $(a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (c_{y2} d_{x1} - c_{x2} d_{y1}) + 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} c_{y1} - b_{y1} c_{x1})^2 (b_{x1} d_{y2} - a_{y1} b_{x1})^2 (b_{x1} c_{y1} - b_{y1} c_{x1})^2 (b_{x1} d_{y2} - a_{y1} b_{x1})^2 (b_{x1} c_{y1} - a_{y1} b_{x1} b_{x1})^2 (b_{x1} c_{y1} - a_{y1} b_{x1} b_{x1} - a_{y1} b_{x1} b_{x1})^2 (b_{x1} c_{y1} - a_{y1} b_{x1} b_{x1} - a_{y1} b_{x1} b$ $b_{y1} d_{x2}$) $(b_{x2} d_{y2} - b_{y2} d_{x2}) - 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} c_{y1} - b_{y1} c_{x1})^2 (b_{x1} d_{y1} - b_{y1} d_{x1}) (b_{y2} d_{x1} - b_{y1} d_{x2})^2$ $b_{x2} d_{y1}) + 6 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (b_{x2} d_{y2} - b_{y2} d_{x2}) - 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (a_{y1} d_{y2} - a_{y1} d_{y2})^2 (a_{y1} d_{y2} -$ $(a_{y1} d_{x2})^2 (b_{x1} d_{y2} - b_{y1} d_{x2}) (b_{x2} d_{y2} - b_{y2} d_{x2}) + 6 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (b_{y2} d_{x1} - a_{y1} d_{x2})^2 (b_{y2} d_{y2} - b_{y2} d_{x2}) + 6 (a_{y1} c_{y1} - a_{y1} c_{x1})^3 (a_{y1} d_{y2} - a_{y1} d_{x1})^2 (b_{y2} d_{x1} - a_{y1} d_{x2})^2 (b_{y2} d_{y2} - a_{y1} d_{x2})^2 (b_{y2} d_{x2} - a$ $(b_{x2} d_{y1}) + 36 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (b_{y2} c_{x1} - b_{x2} c_{y1}) +$ $36\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)^{2}\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)^{2}\left(c_{x1}\,d_{y2}-c_{y1}\,d_{x2}\right)-72\left(a_{x1}\,b_{y1}-a_{y1}\,d_{x2}\right)^{2}$ $(a_{u1} b_{u1}) (a_{u1} b_{u2} - a_{u1} b_{u2}) (a_{u1} c_{u1} - a_{u1} c_{u1}) (a_{u1} d_{u1} - a_{u1} d_{u1}) (a_{u1} d_{u2} - a_{u1} d_{u2}) (d_{u1} d_{u2} - a_{u1} d_{u2}) (d_{u2} d_{u2} - a_{u2} d_{u2}) (d_{u2} d_{u$ $d_{x2} d_{y1}) - 72 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right) \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right) \left(a_{x1} c_{y2} - a_{y1} c_{x2}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right) \left(a_{x1} d_{y2} - a_{y1} c_{x2}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right) \left(a_{x1} d_{y2} - a_{y1} d_{x1}\right) \left(a_{x1} d_{y2} - a_{y1} d_{x1}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right) \left(a_{x1} d_{y2} - a_{y1} d_{x1}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right) \left(a_{x1} d_{y2} - a_{y1} d_{x1}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right) \left(a_{x1} d_{y2} - a_{y1} d_{x1}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right) \left(a_{x1} d_{y2} - a_{y1} d_{x1}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right) \left(a_{x1} d_{y2} - a_{y1} d_{x1}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right) \left(a_{x1} d_{y2} - a_{y1} d_{x1}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right) \left(a_{x1} d_{y2} - a_{y1} d_{x1}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right) \left(a_{x1} d_{y2} - a_{y1} d_{x1}\right) \left(a_{x1} d_{y1} -$ $(a_{y1} d_{x2}) (c_{y2} d_{x1} - c_{x2} d_{y1}) + 12 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (c_{x2} d_{y2} - a_{y1} c_{x2})$ $(c_{y2} d_{x2}) + 24 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2})^3 (b_{x1} b_{y2} - b_{x2} b_{y1}) - (a_{x1} d_{y2} - a_{y1} d_{x2})^3 (b_{x1} b_{y2} - b_{x2} b_{y1}) - (a_{x1} d_{y1} - a_{y1} d_{x2})^3 (b_{x1} b_{y2} - b_{x2} b_{y1}) - (a_{x1} d_{y1} - a_{y1} d_{x2})^3 (b_{x1} d_{y2} - b_{y2} d_{y1}) - (a_{x1} d_{y1} - a_{y1} d_{x2})^3 (b_{x1} d_{y2} - b_{y2} d_{y1}) - (a_{x1} d_{y1} - a_{y1} d_{x2})^3 (b_{x1} d_{y2} - b_{y2} d_{y1}) - (a_{x1} d_{y1} - a_{y1} d_{x2})^3 (b_{x1} d_{y2} - b_{y2} d_{y1}) - (a_{x1} d_{y1} - a_{y1} d_{x2})^3 (b_{x1} d_{y2} - b_{y2} d_{y1}) - (a_{x1} d_{y1} - a_{y1} d_{x2})^3 (b_{x1} d_{y2} - b_{y2} d_{y1}) - (a_{x1} d_{y1} - a_{y1} d_{x2})^3 (b_{x1} d_{y2} - b_{y2} d_{y1}) - (a_{x1} d_{y1} - a_{y1} d_{x2})^3 (b_{x1} d_{y2} - b_{y2} d_{y1}) - (a_{x1} d_{y1} - a_{y1} d_{x2})^3 (b_{x1} d_{y2} - b_{y2} d_{y1}) - (a_{x1} d_{y1} - a_{y1} d_{x2})^3 (b_{x1} d_{y2} - b_{y2} d_{y1}) - (a_{x1} d_{y1} - a_{y1} d_{y1} d_{y1} - a_{y1} d_{y1}) - (a_{x1} d_{y1} - a_{y1} d_{y1} d_{y1} - a_{y1} d_{y1} d_{y1} d_{y1} - a_{y1} d_{y1} d_{$ $18\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{2}\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)^{2}\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)\left(c_{x1}\,d_{y2}-c_{y1}\,d_{x2}\right)-48\left(a_{x1}\,b_{y1}-a_{y1}\,d_{x2}\right)^{2}$ $(a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2})^3 (b_{y2} d_{x1} - b_{x2} d_{y1}) - 12 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x$ $(a_{x1} c_{x1})^3 (a_{x1} d_{y1} - a_{y1} d_{x1}) (d_{x1} d_{y2} - d_{x2} d_{y1}) + 72 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} b_{x2}) (a_{x$ $(a_{x1} c_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (d_{x1} d_{y2} - d_{x2} d_{y1}) + 18 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x2})^2$ $(a_{y1} d_{x1})^2 (c_{x1} d_{y2} - c_{y1} d_{x2}) - 36 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (c_{x1} d_{y1} - a_{y1} d_{x2})^2 (c_{x1} d_{y1} - a_{y1} d_{x2})^2 (c_{x1} d_{y2} - a_{y1} d_{x2})^2 (c_{x1} d_{y1} - a_{y1} d_{x2})^2 (c_{x1} d_{y1} - a_{y1} d_{x2})^2 (c_{x1} d_{y1} - a_{y1} d_{x2})^2 (c_{x1} d_{y2} - a_{y1} d_{x2})^2 (c_{x1} d_{y2} - a_{y1} d_{x2})^2 (c_{x1} d_{y1} - a_{y1} d_{x2})^2 (c_{x1} d_{y1} - a_{y1} d_{x2})^2 (c_{x1} d_{y2} - a_{y1} d_{x2})^2 (c_{x1} d_{y1} - a_$ $(c_{y1} d_{x1}) - 12 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} d_{y2} - a_{y1} d_{x2}) (d_{x1} d_{y2} - d_{x2} d_{y1}) - (d_{x1} d_{y2} - d_{y1} d_{x2}) (d_{x1} d_{y2} - d_{x2} d_{y1}) - (d_{x1} d_{y2} - d_{y1} d_{x2}) (d_{x1} d_{y2} - d_{x2} d_{y1}) - (d_{x1} d_{y2} - d_{y1} d_{x2}) (d_{x1} d_{y2} - d_{x2} d_{y1}) - (d_{x1} d_{y2} - d_{y1} d_{x2}) (d_{x1} d_{y2} - d_{x2} d_{y1}) - (d_{x1} d_{y2} - d_{y1} d_{x2}) (d_{x1} d_{y2} - d_{x2} d_{y1}) - (d_{x1} d_{y2} - d_{y1} d_{x2}) (d_{x1} d_{y2} - d_{x2} d_{y1}) - (d_{x1} d_{y2} - d_{x2} d_{y1}) - (d_{x1} d_{y2} - d_{y1} d_{x2}) (d_{x1} d_{y2} - d_{x2} d_{y1}) - (d_{x1} d_{y2} - d_{y1} d_{x2}) (d_{x1} d_{y2} - d_{x2} d_{y1}) - (d_{x1} d_{y2} - d_{y1} d_{x2}) (d_{x1} d_{y2} - d_{x2} d_{y1}) - (d_{x1} d_{y2} - d_{y1} d_{x2}) (d_{x1} d_{y2} - d_{x2} d_{y1}) - (d_{x1} d_{y2} - d_{y1} d_{x2}) (d_{x1} d_{y2} - d_{x2} d_{y1}) - (d_{x1} d_{y2} - d_{y1} d_{x2}) (d_{x1} d_{y2} - d_{x2} d_{y1}) - (d_{x1} d_{y2} - d_{y1} d_{x2}) (d_{x1} d_{y2} - d_{x2} d_{y1}) - (d_{x1} d_{y2} - d_{y1} d_{x2}) (d_{x1} d_{y2} - d_{x2} d_{y1}) - (d_{x1} d_{y1} - d_{y1} d_{x2}) (d_{x1} d_{y2} - d_{x2} d_{y1}) - (d_{x1} d_{y1} - d_{y1} d_{x2}) (d_{x1} d_{y2} - d_{y1} d_{x2}) (d_{x1} d_{y2} - d_{x2} d_{y1}) - (d_{x1} d_{y2} - d_{y1} d_{x2}) ($

 $72\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(c_{x2}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(a_{x2}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(a_{x2}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(a_{x2}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(a_{x2}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(a_{x2}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(a_{x2}\,d_{y2}-a_{y2}\,d_{x$ $(c_{y2} d_{x2}) - 18 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (c_{x1} d_{y1} - c_{y1} d_{x1}) - (c_{y1} d_{y1} - c_{y1} d_{x1})^2 (a_{y1} d_{y2} - a_{y1} d_{y2})^2 (c_{y1} d_{y1} - c_{y1} d_{x1}) - (c_{y1} d_{y1} - c_{y1} d_{y1})^2 (a_{y1} d_{y2} - a_{y1} d_{y2})^2 (a_{y1} d_{y1} - a_{y1} d_{y1})^2 (a_{y1} d_{y2} - a_{y1} d_{y2})^2 (a_{y1} d_{y1} - a_{y1} d_{y1})^2 (a_{y1} d_{y1} - a_{y1} d_{y1} - a_{y1} d_{y1})^2 (a_{y1} d_{y1} - a_{y1} d_{y1} - a_{y1} d_{y1})^2 (a_{y1} d_{y1} - a_{y1} d$ $24 \left(a_{x1} \, c_{y1} - a_{y1} \, c_{x1}\right) \left(a_{x1} \, c_{y2} - a_{y1} \, c_{x2}\right) \left(a_{x1} \, d_{y2} - a_{y1} \, d_{x2}\right)^{3} \left(b_{x1} \, c_{y2} - b_{y1} \, c_{x2}\right) - 4 \left(a_{x1} \, b_{y1} - a_{y1} \, c_{y2}\right)^{3} + 4 \left(a_{x1} \, c_{y2} - a_{y1} \, c_{x2}\right)^{3} + 4 \left(a_{x1} \, c_{y2} - a_{y1} \, c_{y2}\right)^{3} + 4 \left(a_{x1} \, c_{y2} - a_{y1} \, c_{y2}\right)^{3} + 4 \left(a_{x1} \, c_{y2} - a_{y1} \, c_{y2}\right)^{3} + 4 \left(a_{x1} \, c_{y2} - a_{y1} \, c_{y2}\right)^{3} + 4 \left(a_{x1} \, c_{y2} - a_{y1} \, c_{y2}\right)^{3}$ $(a_{y1} b_{x1})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} c_{y1} - b_{y1} c_{x1})^2 (d_{x1} d_{y2} - d_{x2} d_{y1}) + 36 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x1}) (a_$ $(a_{y1} c_{x2})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (b_{x1} d_{y2} - b_{y1} d_{x2}) - 8 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} c_{y1} - a_{y1} b_{x1})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} c_{y1} - a_{y1} b_{x1})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} c_{y1} - a_{y1} b_{x1})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} c_{y1} - a_{y1} b_{x1})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} c_{y1} - a_{y1} b_{x1})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} c_{y1} - a_{y1} b_{x1})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} c_{y1} - a_{y1} b_{x1})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} c_{y1} - a_{y1} b_{x1})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} c_{y1} - a_{y1} b_{x1})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} c_{y1} - a_{y1} b_{x1})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} c_{y1} - a_{y1} b_{x1})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} c_{y1} - a_{y1} b_{x1})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} c_{y1} - a_{y1} b_{x1})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} c_{y1} - a_{y1} b_{x1})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} c_{y1} - a_{y1} b_{x1})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} c_{y1} - a_{y1} b_{x1})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} c_{y1} - a_{y1} b_{x1})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} c_{y1} - a_{y1} b_{x1})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} c_{y1} - a_{y1} b_{x1})^2 (b_{x1} b_{x1} - a_{y1} b_{x1})^2 (b_{x1} b_{x1} - a_{y1} b_{x$ $b_{u1} c_{x1}$) $(b_{x1} d_{u2} - b_{u1} d_{x2}) (c_{x1} d_{u1} - c_{u1} d_{x1}) + 8 (a_{x1} b_{u1} - a_{u1} b_{x1})^3 (b_{x1} d_{u1} - b_{u1} d_{x1}) (b_{u2} d_{x1} - b_{u2} d_{x1})$ $b_{x2} \, d_{y1}) \, (c_{x1} \, d_{y1} - c_{y1} \, d_{x1}) + 8 \, (a_{x1} \, b_{y1} - a_{y1} \, b_{x1}) \, (a_{x1} \, b_{y2} - a_{y1} \, b_{x2}) \, (a_{x1} \, c_{y1} - a_{y1} \, c_{x1}) \, (b_{x1} \, d_{y1} - a_{y1} \, c_{x2}) \, (a_{x1} \, c_{y1} - a_{y1} \, c_{x2}) \, (a_{x2} \, c_{y2} - a_{y2} \, c_{y2}) \, (a_{x2}$ $(b_{u1} d_{x1})^3 + 8(a_{x1} b_{y1} - a_{y1} b_{x1})^3 (b_{x1} d_{y2} - b_{y1} d_{x2}) (b_{x2} d_{y2} - b_{y2} d_{x2}) (c_{x1} d_{y2} - c_{y1} d_{x2}) - b_{y1} d_{x2}$ $8\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)^{3}+6\left(a_{x1}\,c_{y1}-a_{y1}\,b_{$ $(a_{y1} c_{x1})^3 (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} b_{y2} - b_{x2} b_{y1}) (c_{x1} d_{y2} - c_{y1} d_{x2}) + 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (b_{y2} c_{x1} - a_{y1$ $b_{x2} c_{y1} (c_{x1} d_{y1} - c_{y1} d_{x1})^2 - 4 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} d_{y1} - b_{y1} d_{x1})^2 +$ $4\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)^{2}\left(b_{x1}\,c_{y1}-b_{y1}\,c_{x1}\right)^{3}+6\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{3}\left(a_{x1}\,d_{y1}-a_{y1}\,c_{x1}\right)^{3}$ $(a_{u1} d_{x1}) (b_{x1} b_{y2} - b_{x2} b_{y1}) (c_{x1} d_{y1} - c_{y1} d_{x1}) + 8 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^3 (b_{x1} c_{y2} - a_{y1}$ $(b_{y1} c_{x2})^2 - 12(a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (b_{x1} c_{y2} - b_{y1} c_{x2}) (c_{y2} d_{x1} - c_{x2} d_{y1}) + (c_{y1} c_{x2})^2 (a_{x1} c_{y1} - a_{y1} c_{x2})^2 (a_{x1} c_{y1} - a_{y1} c_{x2}) + (c_{y1} c_{x2})^2 (a_{x1} c_{y1} - a_{y1} c_{x2})^2 (a_{x1} c_{y1} - a_{y1} c_{x2}) + (c_{y1} c_{x2} c_{y1} c_{x2})^2 (a_{x1} c_{y1} - a_{y1} c_{x2})^2 (a_{x1} c_{y1} - a_{y1} c_{x2}) + (c_{y1} c_{x2} c_{y1} c_{x2})^2 (a_{x1} c_{y1} - a_{y1} c_{x2}) + (c_{y1} c_{x2} c_{y1} c_{x2})^2 (a_{x1} c_{y1} - a_{y1} c_{x2}) + (c_{y1} c_{x2} c_{y1} c_{x2})^2 (a_{x1} c_{y1} - a_{y1} c_{x2}) + (c_{y1} c_{x2} c_{y1} c_{x2} c_{y1} c_{x2}) + (c_{y1} c_{x2} c_{y1} c_{x2} c_{y1} c_{x2} c_{y1} c_{x2}) + (c_{y1} c_{x2} c_{y1} c_{x2} c_{y1} c_{x2} c_{y1} c_{x2} c_{y1} c_{x2} c_{y1} c_{x2} c_{y1} c_{y1} c_{x2} c_{y1} c_{y1} c_{y1} c_{y1} c_{y2} c_{y1} c_{y1} c_{y2} c_{y1} c_{y1} c_{y2} c_{y1} c_{y1} c_{y1} c_{y1} c_{y1} c_{y1} c_{y2} c_{y1} c_{y1} c_{y1} c_{y1} c_{y2} c_{y1} c_{y1} c_{y2} c_{y1} c_{y1} c_{y1} c_{y1} c_{y1} c_{y2} c_{y1} c_{y1} c_{y1} c_{y2} c_{y1} c_{y1} c_{y1} c_{y2} c_{y1} c_{y1} c_{y1} c_{y1} c_{y2} c_{y1} c_{y1} c_{y2} c_{y1} c_{y1} c_{y2} c_{y1} c_{y1} c_{y2} c_{y2} c_{y1} c_{y2} c_{y2} c_{y1} c_{y2} c_{y2}$ $6\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)^{2}\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)\left(b_{x1}\,d_{y1}-b_{y1}\,d_{x1}\right)^{2}-8\left(a_{x1}\,b_{y1}-a_{y1}\,d_{x1}\right)^{2}$ $(a_{y1} b_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2})^3 (b_{x1} c_{y2} - b_{y1} c_{x2})^2 - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (b_{x1} d_{y2} -$ $(b_{y1} d_{x2}) (b_{y2} d_{x1} - b_{x2} d_{y1}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (b_{x1} c_{y2} - b_{y1} c_{x2}) (c_{x2} d_{y2} - a_{y1} d_{x2})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (a_{x2} d_{y2} - a_{y1} d_{x2})^2 (a_{y2} d_{y2} - a_{y1} d_{y2})^2 (a_{y2} d_{y2} - a_{y$ $(a_{x1} b_{y2} - a_{y1} b_{x1}) + 4 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2})^3 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} d_{y1} - b_{y1} d_{x1}) - 6 (a_{x1} b_{y1} - a_{y1} b_{x1}) - 6 (a$ $(a_{u1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} d_{y2} - b_{y1} d_{x2})^2 + 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{y1})^2$ $(a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} d_{y2} - b_{y1} d_{x2}) (b_{x2} d_{y2} - b_{y2} d_{x2}) - 28 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (b_{x1} d_{y1} - a_{y1}$ $b_{y1} d_{x1}) \left(b_{y2} c_{x1} - b_{x2} c_{y1}\right) \left(d_{x1} d_{y2} - d_{x2} d_{y1}\right) + 24 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right)^2 \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right)^2 \left(b_{x1} d_{y1} - a_{y1} d_{x1}\right)^2 \left(a_{x1} d_{$ $b_{y1} d_{x1}$) $(b_{x2} d_{y2} - b_{y2} d_{x2}) - 30 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1})^2 (b_{y2} c_{x1} - a_{y1} d_{x2})^2$ $(b_{x2} c_{y1}) + 4 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^3 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) + 16 (a_{x1} b_{y1} - a_{y1} d_{x2}) + 16 (a$ $(a_{y1} b_{x1})^3 (b_{x1} b_{y2} - b_{x2} b_{y1}) (c_{x1} d_{y1} - c_{y1} d_{x1}) (d_{x1} d_{y2} - d_{x2} d_{y1}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{y1})^2 (a_{x1} b_{y2} - a_{y1} b_{y1})^2 (a_{y1} b_{y1} - a_{y1} b_{y1})^2 (a_{y1} b_{y2} - a_{y1} b_{y1})^2 (a_{y1} b_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1})^2 (a_{y1} b_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1})^2 (a_{y1} b_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1})^2 (a_{y1} b_{y1} - a_{y1} b_{y1}$ $a_{y1} b_{x2}) \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right) \left(b_{x1} d_{y1} - b_{y1} d_{x1}\right) \left(d_{x1} d_{y2} - d_{x2} d_{y1}\right) + 24 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right)^{2} \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right) \left(a_{x1} d_{y1$ $(a_{y1} d_{x1}) (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} c_{y1} - b_{y1} c_{x1}) (d_{x1} d_{y2} - d_{x2} d_{y1}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x1} d_{y1} - a_{y1} b_{x1} - a_{y1} b_{x1})^3 (a_{x1} d_{y1} - a_{y1} b_{x1} - a_{y1} b_{x1})^3 (a_{x1} d_{y1} - a_{y1} b_{x1} - a_{y1} b$ $a_{y1} d_{x1} (b_{x2} d_{y2} - b_{y2} d_{x2}) (d_{x1} d_{y2} - d_{x2} d_{y1}) - 24 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1}) (b_{x1} b_{y2} - a_{y1} d_{x1}) (b_{x1} d_{y1} - a_{y1} d_{x1}) (b_{x1} d_{y2} - a_{y1} d_{x1}) (b_{x1} d_{y2} - a_{y1} d_{x1}) (b_{x1} d_{y2} - a_{y1} d_{x1}) (b_{x1} d_{y1} - a_{y1} d_{x1}) (b_{x1} d_{y2} - a_{y1} d_{x1}) (b_{x1} d_{y1} - a_{y1} d_{x1}) (b_{x1} d_{y2} - a_{y1} d_{x1}) (b_{x1} d_{y1} - a_{y1} d_{x1}) (b_{x1} d_{x1} - a_{y1} d_{x1}) (b_{x1}$ $(b_{x2} b_{y1}) (b_{x1} d_{y1} - b_{y1} d_{x1}) (c_{x1} d_{y2} - c_{y1} d_{x2}) + 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (b_{x1} d_{y2} - a_{y1} d_{x1})^2 (a_{y1} d_{y1} - a_{y1} d_{y1})^2 (a_{y1} d_{y1} - a_{y1} d_{y1} - a_{y1} d_{y1})^2 (a_{y1} d_{y1} - a_{y1} d_{y1} - a_{y1} d_{y1})^2 (a_{y1} d_{y1} - a_{y1} d_{y1} - a_{y1$ $b_{y1}\,d_{x2})\,(b_{x2}\,d_{y2}-b_{y2}\,d_{x2})-24\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})\,(a_{x1}\,b_{y2}-a_{y1}\,b_{x2})\,(a_{x1}\,d_{y1}-a_{y1}\,d_{x1})\,(b_{x1}\,c_{y1}-a_{y1}\,d_{x2})$ $b_{y1}\,c_{x1})\,(b_{x1}\,d_{y1}-b_{y1}\,d_{x1})\,(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}) - 6\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})\,(a_{x1}\,b_{y2}-a_{y1}\,b_{x2})\,(a_{x1}\,d_{y2}-a_{y1}\,b_{x2})$ $(a_{y1} d_{x2})^2 (b_{x1} d_{y1} - b_{y1} d_{x1})^2 - 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (b_{x1} d_{y2} - b_{y1} d_{x2}) (b_{y2} c_{x1} - b_{x2} c_{y1}) (d_{x1} d_{y2} - b_{y1} d_{x2})^2 + 2 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (b_{x1} d_{y2} - b_{y1} d_{x2}) (b_{y2} c_{x1} - b_{x2} c_{y1}) (d_{x1} d_{y2} - b_{y1} d_{x2})^2 + 2 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (b_{x1} d_{y2} - b_{y1} d_{x2}) (b_{y2} c_{x1} - b_{x2} c_{y1}) (d_{x1} d_{y2} - b_{y1} d_{x2}) (d_{x1} d_{x2} - b$ $d_{x2} d_{y1}) - 36 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right) \left(a_{x1} b_{y2} - a_{y1} b_{x2}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right) \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right) \left(b_{x1} d_{y1} - a_{y1} d_{x2}\right) \left(a_{x1} d_{y1} -$ $(b_{y1} d_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) + 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2})^2 (b_{y2} c_{x1} - a_{y1} d_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2})^2 (b_{y2} c_{x1} - a_{y1} d_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2})^2 (b_{y2} c_{x1} - a_{y1} d_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2})^2 (b_{y2} c_{x1} - a_{y1} d_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2})^2 (b_{y2} c_{x1} - a_{y1} d_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2})^2 (b_{y2} c_{x1} - a_{y1} d_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2})^2 (b_{y2} c_{x1} - a_{y1} d_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2})^2 (b_{y2} c_{x1} - a_{y1} d_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2})^2 (b_{y2} c_{x1} - a_{y1} d_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2})^2 (b_{y2} c_{x1} - a_{y1} d_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2})^2 (b_{y2} c_{x1} - a_{y1} d_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2})^2 (b_{y2} c_{x1} - a_{y1} d_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2})^2 (b_{y2} c_{x1} - a_{y1} d_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2})^2 (b_{y2} c_{x1} - a_{y1} d_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2})^2 (b_{y2} c_{x1} - a_{y1} d_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2})^2 (b_{y2} c_{x1} - a_{y1} d_{x2})^2 (b_{y2} c_{x1} - a$ $b_{x2} c_{y1}$) $-24 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x1}) (b_{x1} d_{y1} - b_{y1} d_{x1}) (b_{x1} d_{y2} - a_{y1} c_{x2})^2$ $(b_{y1} d_{x2}) - 8 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (b_{x1} b_{y2} - b_{x2} b_{y1}) (c_{x1} d_{y2} - c_{y1} d_{x2}) (d_{x1} d_{y2} - d_{x2} d_{y1}) - 12 (a_{x1} b_{y1} - a_{y1} b_{y1})^3 (a_{y1} b_{y2} - b_{y2} b_{y1}) (c_{y1} d_{y2} - c_{y1} d_{x2}) (d_{y1} d_{y2} - d_{y2} d_{y1}) - 12 (a_{y1} b_{y1} - a_{y1} b_{y1})^3 (a_{y1} b_{y2} - b_{y2} b_{y1}) (c_{y1} d_{y2} - c_{y1} d_{y2}) (d_{y1} d_{y2} - d_{y2} d_{y1}) - 12 (a_{y1} b_{y1} - a_{y1} b_{y1})^3 (a_{y1} b_{y2} - a_{y1} b_{y1}) (a_{y1} d_{y2} - a_{y1} d_{y2}) (a_{y1} d_{y2} -$ $(a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) (c_{y2} d_{x1} - c_{x2} d_{y1}) + 24 (a_{x1} b_{y1} - a_{y1} d_{x2}) (a_{y1} c_{y2} - a_{y1} c_{y2}) (a_{y2} c_{y1} c_{y2} - a_{y1} c_{y2}) (a_{y1} c_{y1} c_{y2} - a_{y1} c_{y2}) (a_{y1} c_{y2} - a_{y1}$ $(a_{y1} b_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1}) (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) (c_{x1} d_{y2} - c_{y1} d_{x2}) - 18 (a_{x1} b_{y1} - b_{y1} d_{x2}) (a_{y1} d_{y2} - b_{y1} d_{y2}) - 18 (a_{y1} d_{y1} - b_{y1} d_{y2}) - 18 (a_{y1} d_{y2} - b_{y1} d_{y2}) - 18 (a_{y1} d_{$ $a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1})^2 + 24 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} b_{x1}) (a_{$ $a_{y1} c_{x1}$) $(a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} d_{y1} - b_{y1} d_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) + 12 (a_{x1} b_{y1} - b_{y1} d_{x2})$ $(a_{y1} b_{x1})^3 (a_{x1} d_{y2} - a_{y1} d_{x2}) (c_{y2} d_{x1} - c_{x2} d_{y1})^2 + 6 (a_{x1} c_{y1} - a_{y1} c_{x1})^4 (b_{x1} d_{y1} - b_{y1} d_{x1}) (b_{y2} d_{x1} - a_{y1} c_{x1})^4 (b_{x1} d_{y1} - b_{y1} d_{x1}) (b_{y2} d_{x1} - a_{y1} c_{x1})^4 (b_{x1} d_{y2} - a_{y1} d_{x1}) (b_{y2} d_{x1} - a_{y1} c_{x1})^4 (b_{x1} d_{y2} - a_{y1} d_{x1}) (b_{y2} d_{x1} - a_{y1} c_{x1})^4 (b_{x1} d_{y2} - a_{y1} d_{x1}) (b_{y2} d_{x1} - a_{y1} c_{x1})^4 (b_{x1} d_{y2} - a_{y1} d_{x1}) (b_{y2} d_{x1} - a_{y1} c_{x1})^4 (b_{x1} d_{y1} - a_{y1} c_{x1})^4 (b_{x1} d_{y1} - a_{y1} d_{x1}) (b_{y2} d_{x1} - a_{y1} c_{x1})^4 (b_{y1} d_{y1} - a_{y1} d_{x1}) (b_{y2} d_{x1} - a_{y1} c_{x1})^4 (b_{y1} d_{y1} - a_{y1} d_{x1}) (b_{y2} d_{x1} - a_{y1} d_{x1}) (b_{y2} d_{x1}$ $b_{x2} d_{y1}$)+12 $(a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x1} d_{y1} - a_{y1} d_{y2})^2$

 $(b_{y1} d_{x1}) - 4 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} d_{y1} - a_{y1} d_{x1}) (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{y2} d_{x1} - b_{x2} d_{y1}) +$ $12\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)^{2}\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(b_{x1}\,d_{y1}-b_{y1}\,d_{x1}\right)\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right) 4\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{4}\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)\left(b_{y2}\,d_{x1}-b_{x2}\,d_{y1}\right)+18\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,c_{y2}-a_{y1}\,b_{x2}\right)$ $(a_{u1} c_{x2})^2 (a_{x1} d_{u1} - a_{u1} d_{x1}) (b_{x1} d_{u2} - b_{u1} d_{x2})^2 - 8 (a_{x1} b_{u1} - a_{u1} b_{x1}) (a_{x1} c_{u1} - a_{u1} c_{x1})^3 (b_{u2} d_{x1} - a_{u2} c_{x1})^3 (b_{u2} d_{x1} - a_{$ $(b_{x2} d_{y1}) (c_{x1} d_{y2} - c_{y1} d_{x2}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x1} d_{y1} - a_{y1} d_{x1}) (c_{x2} d_{y2} - c_{y2} d_{x2})^2 - (a_{x1} d_{y1} - a_{y1} d_{x1}) (c_{x2} d_{y2} - c_{y2} d_{x2})^2 - (a_{x1} d_{y1} - a_{y1} d_{x1}) (c_{x2} d_{y2} - c_{y2} d_{x2})^2 - (a_{x1} d_{y1} - a_{y1} d_{x1}) (c_{x2} d_{y2} - c_{y2} d_{x2})^2 - (a_{x1} d_{y1} - a_{y1} d_{x1}) (c_{x2} d_{y2} - c_{y2} d_{x2})^2 - (a_{x1} d_{y1} - a_{y1} d_{x1}) (c_{x2} d_{y2} - c_{y2} d_{x2})^2 - (a_{x1} d_{y1} - a_{y1} d_{x1}) (c_{x2} d_{y2} - c_{y2} d_{x2})^2 - (a_{x2} d_{y1} - a_{y1} d_{x1}) (c_{x2} d_{y2} - c_{y2} d_{x2})^2 - (a_{x2} d_{y1} - a_{y1} d_{x1}) (c_{x2} d_{y2} - c_{y2} d_{x2})^2 - (a_{x2} d_{y2} - a_{y1} d_{x2}) (c_{x2} d_{y2} - c_{y2} d_{x2})^2 - (a_{x2} d_{y2} - a_{y1} d_{x2}) (c_{x2} d_{y2} - c_{y2} d_{x2})^2 - (a_{x2} d_{y2} - a_{y1} d_{x2}) (c_{x2} d_{y2} - c_{y2} d_{x2})^2 - (a_{x2} d_{y2} - a_{y1} d_{x2}) (c_{x2} d_{y2} - c_{y2} d_{x2})^2 - (a_{x2} d_{y2} - a_{y1} d_{x2}) (c_{x2} d_{y2} - a_{y2} d_{x2})^2 - (a_{x2} d_{y2} - a_{y1} d_{x2}) (c_{x2} d_{y2} - a_{y2} d_{x2})^2 - (a_{x2} d_{y2} - a_{y2} d_{x2})^2 - ($ $12\left(a_{x1}\,c_{v1}-a_{v1}\,c_{x1}\right)^{3}\left(a_{x1}\,d_{v2}-a_{v1}\,d_{x2}\right)\left(b_{x1}\,b_{v2}-b_{x2}\,b_{v1}\right)\left(c_{x1}\,d_{v1}-c_{v1}\,d_{x1}\right)+12\left(a_{x1}\,b_{v1}-a_{v1}\,d_{x2}\right)\left(b_{x1}\,b_{v2}-b_{x2}\,b_{v1}\right)\left(c_{x1}\,d_{v1}-c_{v1}\,d_{x1}\right)+12\left(a_{x1}\,b_{v1}-a_{v1}\,d_{x2}\right)\left(b_{x1}\,b_{v2}-b_{x2}\,b_{v1}\right)\left(c_{x1}\,d_{v1}-c_{v1}\,d_{x1}\right)+12\left(a_{x1}\,b_{v1}-a_{v1}\,d_{x2}\right)\left(b_{x1}\,b_{v2}-b_{x2}\,b_{v1}\right)\left(c_{x1}\,d_{v1}-c_{v1}\,d_{x1}\right)+12\left(a_{x1}\,b_{v1}-a_{v1}\,d_{x2}\right)\left(b_{x1}\,b_{v2}-b_{x2}\,b_{v1}\right)\left(c_{x1}\,d_{v1}-c_{v1}\,d_{x1}\right)+12\left(a_{x1}\,b_{v1}-a_{v1}\,d_{x2}\right)\left(b_{x1}\,b_{v2}-b_{x2}\,b_{v1}\right)\left(c_{x1}\,d_{v1}-c_{v1}\,d_{x1}\right)+12\left(a_{x1}\,b_{v1}-a_{v1}\,d_{x2}\right)\left(b_{x1}\,b_{v2}-b_{x2}\,b_{v1}\right)\left(c_{x1}\,d_{v1}-c_{v1}\,d_{x1}\right)+12\left(a_{x1}\,b_{v1}-a_{v1}\,d_{x2}\right)\left(b_{x1}\,b_{v2}-b_{x2}\,b_{v1}\right)\left(c_{x1}\,d_{v1}-c_{v1}\,d_{x1}\right)+12\left(a_{x1}\,b_{v1}-a_{v2}\,d_{x2}\right)\left(b_{x1}\,b_{v2}-b_{x2}\,b_{v1}\right)\left(c_{x1}\,d_{v1}-c_{v1}\,d_{x1}\right)+12\left(a_{x1}\,b_{v1}-a_{v2}\,d_{x2}\right)\left(b_{x1}\,b_{v2}-b_{x2}\,d_{x2}\right)\left(b_{x1}\,b_{v2}-b_{x2}\,d_{x2}\right)+12\left(a_{x1}\,d_{x2}-a_{v1}\,d_{x2}\right)\left(b_{x1}\,d_{x2}-a_{v2}\,d_{x2}\right)\left(b_{x1}\,d_{x2}-a_{v2}\,d_{x2}\right)+12\left(a_{x1}\,d_{x2}-a_{v2}\,d_{x2}\right)\left(b_{x1}\,d_{x2}-a_{v2}\,d_{x2}\right)\left(b_{x1}\,d_{x2}-a_{v2}\,d_{x2}\right)+12\left(a_{x1}\,d_{x2}-a_{v2}\,d_{x2}\right)\left(b_{x1}\,d_{x2}-a_{v2}\,d_{x2}\right)\left(b_{x1}\,d_{x2}-a_{v2}\,d_{x2}\right)$ $(a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{x1} c_{y2} - b_{y1} c_{x2})^2 - 4 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} b_{x2}) (a_{$ $(a_{y1} c_{x1})^3 (b_{x1} c_{y1} - b_{y1} c_{x1}) (d_{x1} d_{y2} - d_{x2} d_{y1}) - 24 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y1} - a_{y1} c_{x1}) (a_{x$ $(a_{y1} d_{x1}) (b_{x1} c_{y2} - b_{y1} c_{x2})^2 (b_{x1} d_{y1} - b_{y1} d_{x1}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} b_{x2}) (a_{x$ $(a_{y1} c_{x1})^2 (c_{x1} d_{y1} - c_{y1} d_{x1}) (c_{x1} d_{y2} - c_{y1} d_{x2}) - 8 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (b_{x1} c_{y1} - b_{y1} c_{x1}) (c_{y2} d_{x1} - b_{y1} c_{x1}) (c_{$ $(c_{x2} d_{y1})^2 + 2 (a_{x1} c_{y1} - a_{y1} c_{x1})^4 (b_{x1} c_{y2} - b_{y1} c_{x2}) (c_{y2} d_{x1} - c_{x2} d_{y1}) - 24 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - b_{y1} c_{x2}) (a_{y2} d_{x1} - c_{x2} d_{y1}) - 24 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - b_{y1} c_{x2}) (a_{y2} d_{x1} - c_{x2} d_{y1}) - 24 (a_{y1} b_{y1} - a_{y1} b_{x1})^2 (a_{y1} c_{y2} - b_{y1} c_{y2}) (a_{y1} d_{y1} - a_{y1} d_{y1}) - 24 (a_{y1} d_{y1} - a_{y1} d_{y1})^2 (a_{y1} d_{y1} - a_{y1} d_{y1} - a_{y1} d_{y1} - a_{y1} d_{y1})^2 (a_{y1} d_{y1} - a_{y1} d_{y1} - a_{$ $(a_{y1} c_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1})^2 (c_{x1} c_{y2} - c_{x2} c_{y1}) - 8 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (c_{x1} c_{y2} - a_{y1} c_{y1} c_{y1})^3 (c_{x1} c_{y2} - a_{y1} c_{y1} c_{y1} c_{y1})^3 (c_{x1} c_{y2} - a_{y1} c_{y1} c_{y1} c_{y1} c_{y1} c_{y1} c_{y1} c_{y2} c_{y1} c_{y1} c_{y1} c_{y1} c_{y1} c_{y1} c_{y1} c_{y2} c_{y1} c_{y1} c_{y1} c_{y1} c_{y1} c_{y1} c_{y2} c_{y1} c_{y1} c_{y1} c_{y1} c_{y1} c_{y2} c_{y1} c_{y1} c_{y1} c_{y1} c_{y2} c_{y1} c_{y2} c_{y2} c_{y1} c_{y2} c_{y2} c_{y1} c_{y2} c_{y1} c_{y2} c_$ $c_{x2}\,c_{y1})\,(c_{y2}\,d_{x1}-c_{x2}\,d_{y1})+6\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})^2\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})\,(b_{x1}\,c_{y2}-b_{y1}\,c_{x2})\,(b_{x1}\,d_{y1}-a_{y1}\,c_{y2})$ $b_{y1}\,d_{x1})\,(c_{y2}\,d_{x1}-c_{x2}\,d_{y1})-6\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})^3\,(a_{x1}\,c_{y2}-a_{y1}\,c_{x2})\,(b_{x1}\,d_{y1}-b_{y1}\,d_{x1})\,(c_{x1}\,c_{y2}-a_{y2}\,c_{x3})$ $(c_{x2} c_{y1}) - 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (b_{x1} c_{y2} - b_{y1} c_{x2})^2 (d_{x1} d_{y2} - d_{x2} d_{y1}) 6\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{4}\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)\left(b_{x2}\,d_{y2}-b_{y2}\,d_{x2}\right)+12\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,c_{y1}-a_{y1}\,b_{x1}\right)^{2}$ $a_{y1} c_{x1} (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1}) (c_{x2} d_{y2} - c_{y2} d_{x2}) + 4 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} d_{y2} - a_{y1} c_{x1})^3 (a_{y1} c_{y2} - a_{y1} c_{y2}) + 4 (a_{y1} c_{y2} - a_{y1} c_{y2})^3 (a_{y1} c_{y2} - a_{y1} c_{y2}) + 4 (a_{y1} c_{y2} - a_{y1} c_{y2})^3 (a_{y1} c_{y2} - a_{y1} c_{y2}) + 4 (a_{y1} c_{y2} - a_{y2} c_{y2}) + 4 (a_{y1} c_{y2} - a_{y1} c_{y2}) + 4 (a_{y1} c_{y2} - a_{y1} c_{y2}) + 4 (a_{y1} c_{y2} - a_{y2} c_{y2}) + 4 (a_{y1} c_{y2} - a_{y1} c_{y2}) + 4 (a_{y1} c_{y2} - a_{y2} c_{y2}) + 4 (a_{y1} c_{y2} - a_{y2} c_{y2}) + 4 (a_{y1} c_{y2} c_{y2} - a_{y2} c_{y2}) + 4 (a_{y1} c_{y2} c_{y2} c_{y2} - a_{y2} c_{y2}) + 4 (a_{y1} c_{y2} c_{y2} c_{y2} c_{y2} c_{y2}) + 4 (a_{y1} c_{y2} c_$ $a_{y1} d_{x2}$) $(b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{x2} d_{y2} - b_{y2} d_{x2}) + 24 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y1} - a_{y1} c_{x1}) (a_{x2} d_{y2} - a_{y2} d_{x2}) + 24 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x2}) + 24 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x2} d_{y2} - a_{y2} d_{x2}) + 24 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x2} d_{y2} - a_{y1} c_{x1}) (a_{x2} d_{y2} - a_{y2} d_{x2}) + 24 (a_{x$ $(a_{u1} d_{x1}) (b_{x1} c_{u2} - b_{u1} c_{x2})^2 (b_{x1} d_{u2} - b_{u1} d_{x2}) + 2 (a_{x1} c_{u1} - a_{u1} c_{x1})^4 (b_{x1} c_{u2} - b_{u1} c_{x2}) (c_{x2} d_{u2} - b_{u1} c_{x2})^4 (c_{x2} d_{u2} - b_{u2} c_{x2})^4 (c_{x2} d_{u2} - b_{u2$ $(c_{y2} d_{x2}) + 24 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} c_{y2} - b_{y1} c_{x2})^2 (c_{x1} d_{y1} - c_{y1} d_{x1}) +$ $8\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{3}\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(b_{x1}\,c_{y2}-b_{y1}\,c_{x2}\right)\left(c_{x1}\,c_{y2}-c_{x2}\,c_{y1}\right)-16\left(a_{x1}\,b_{y1}-a_{y1}\,c_{x2}\right)\left(c_{x1}\,c_{y2}-c_{x2}\,c_{y1}\right)$ $(a_{y1} b_{x1})^3 (b_{x1} c_{y1} - b_{y1} c_{x1}) (c_{y2} d_{x1} - c_{x2} d_{y1}) (c_{x2} d_{y2} - c_{y2} d_{x2}) - 2 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} c_{y2} - a_{y1} c_{y1} c_{y2})^3 (a_{x1} c_{y2} - a_{y1} c_{y2} c_{y2})^3 (a_{x1} c_{y2} - a_{y1} c_{y2} c_{y2} c_{y2})^3 (a_{x1} c_{y2} - a_{y1} c_{y2} c_{$ $(a_{y1} c_{x2}) (b_{x1} d_{y2} - b_{y1} d_{x2}) (c_{x1} c_{y2} - c_{x2} c_{y1}) + 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (c_{x1} d_{y1} - a_{y1} c_{x2})^2 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (c_{x1} d_{y1} - a_{y1} c_{y1} - a_{y1} c_{y1} c_{y1} - a_{y1} c_{y1} c_{y1} - a_{y1} c_{y1} c_{y1} c_{y1} - a_{y1} c_{y1} c_{y1$ $(c_{y1} d_{x1})^2 + 8 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^3 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} c_{y1} - b_{y1} c_{x1}) 12\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{2}\left(c_{y2}\,d_{x1}-c_{x2}\,d_{y1}\right)^{2}-12\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{2}\left(a_{x1}\,d_{y1}-a_{y1}\,c_{x1}\right)^{2}$ $(a_{y1} d_{x1})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} d_{y1} - b_{y1} d_{x1}) + 12 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x1}) (a_{x$ $a_{y1} c_{x2}$) $(a_{x1} d_{y1} - a_{y1} d_{x1}) (b_{x1} d_{y1} - b_{y1} d_{x1}) (c_{x1} c_{y2} - c_{x2} c_{y1}) - 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} b_{x1})^2 (a_{x2} c_{y1}) - 6 (a_{x1} b_{y2} - a_{y2} b_{x2}) (a_{x2} c_{y2} - a_{y2} c_{y2}) - 6 (a_{x2} c_{y2} c_{y2} - a_{y2} c_{y2}) - 6 (a_{x2} c_{y2} c_{y2} - a_{y2} c_{y2}) - 6 (a_{x2} c_{y2} c_{y2} c_{y2} - a_{y2} c_{y2}) - 6 (a_{x2} c_{y2} c_{y2} c_{y2} c_{y2}) - 6 (a_{x2} c_{y2} c_{y2} c_{y2} c_{y2} c_{y2}) - 6 (a_{x2} c_{y2} c_{y2} c_{y2} c_{y2} c_{y2}) - 6 (a_{x2} c_{y2} c_{y2} c_{y2} c_{y2} c_{y2} c_{y2}) - 6 (a_{x2} c_{y2} c_{y2} c_{y2} c_{y2} c_{y2} c_{y2}) - 6 (a_{x2} c_{y2} c_{y2$ $a_{u1} c_{x1} (a_{x1} d_{u1} - a_{u1} d_{x1}) (b_{u2} d_{x1} - b_{x2} d_{u1}) (c_{x1} d_{u1} - c_{u1} d_{x1}) + 18 (a_{x1} b_{u2} - a_{u1} b_{x2}) (a_{x1} c_{u1} - a_{u1} d_{x1}) (a_{x1} c$ $(a_{x1} c_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1})^2 - 18 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x1})^2 (a_{x1} d_{y1} - a_$ $a_{y1} d_{x2}) (b_{x1} c_{y1} - b_{y1} c_{x1})^2 + 36 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x2}) (a_{x1$ $a_{y1} d_{x2}$) $(b_{x1} b_{y2} - b_{x2} b_{y1}) (c_{x1} d_{y1} - c_{y1} d_{x1}) - 48 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} b_{x2}) (a_{x1$ $(a_{u1} c_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) (c_{x1} d_{y1} - c_{y1} d_{x1}) + 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x2}) (a_{y1} d_{y1} - a_{y1} d_{y1}) + 6 (a_{y1} d_{y1} - a_{y1} d_{y1})^2 (a_{y1} d_{y1} - a_{y1} d_{y1} - a_{y1$ $(a_{y1} d_{x1})^2 (b_{y2} c_{x1} - b_{x2} c_{y1}) (c_{x1} d_{y2} - c_{y1} d_{x2}) - 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) - 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) - 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) - 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) - 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) - 6 (a_{x1}$ $a_{v1} d_{x2} (c_{x1} d_{v1} - c_{v1} d_{x1})^2 + 12 (a_{x1} b_{v1} - a_{v1} b_{x1}) (a_{x1} c_{v1} - a_{v1} c_{x1}) (a_{x1} d_{v1} - a_{v1} d_{x1}) (b_{x1} c_{v1} - a_{v1} d_{x1}) (b_{x1} c_{v1} - a_{v1} d_{x1}) (a_{x1} d_{v1} - a_{v1} d_{x1}) (a_{x1}$ $b_{y1}\,c_{x1})\,(b_{x1}\,d_{y1}-b_{y1}\,d_{x1})\,(b_{y2}\,c_{x1}-b_{x2}\,c_{y1}) + 6\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})^2\,(a_{x1}\,b_{y2}-a_{y1}\,b_{x2})\,(a_{x1}\,d_{y2}-a_{y1}\,b_{x2})$ $(a_{y1} d_{x2}) (c_{x1} d_{y1} - c_{y1} d_{x1})^2 + 2 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (b_{y2} c_{x1} - b_{x2} c_{y1}) (c_{x1} d_{y1} - c_{y1} d_{x1})^2 - (a_{x1} d_{y1} - c_{y1} d_{x1})^2 - (a_{x1} d_{y1} - c_{y1} d_{x1})^2 + (a_{x1} d_{y1} - a_{y1} d_{x1})^3 (b_{y2} c_{x1} - b_{x2} c_{y1}) (c_{x1} d_{y1} - c_{y1} d_{x1})^2 - (a_{x1} d_{y1} - c_{y1} d_{x1})^2 + (a_{x1} d_{y1} - a_{y1} d_{x1})^3 (b_{y2} c_{x1} - b_{x2} c_{y1}) (c_{x1} d_{y1} - c_{y1} d_{x1})^2 - (a_{x1} d_{y1} - c_{y1} d_{x1})^2 + (a_{x1} d_{y1} - c_{y1} d_{x1})^2 - (a_{x1} d_{y1} - c_{y1} d_{x1})^2 + (a_{x1} d_{y1} - c_{y1} d_{x1})^2 + (a_{x1} d_{y1} - c_{y1} d_{x1})^2 + (a_{x1} d_{y1} - c_{y1} d_{x1})^3 (b_{y2} c_{x1} - b_{x2} c_{y1}) (c_{x1} d_{y1} - c_{y1} d_{x1})^2 + (a_{x1} d_{y1} - c_{y1} d_{x1})^2$ $6\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(c_{x1}\,d_{y1}-c_{y1}\,d_{x1}\right)^{2}-6\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x2}\right)^{2}$ $(a_{x1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (b_{x1} b_{y2} - b_{x2} b_{y1}) (c_{x1} d_{y1} - c_{y1} d_{x1})^2 + 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x1})^2 + 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x1})^2 + 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x1})^2 + 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 + 6 (a$ $(a_{y1} b_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (c_{x1} d_{y1} - c_{y1} d_{x1})^2 + 10 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (b_{y2} c_{x1} - b_{x2} c_{y1}) (c_{x1} d_{y1} - a_{y1} d_{x2})^2 + 10 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{y1} c_{y1} - a_{y1} d_{x2})^2 + 10 (a_{y1} c_{y1} c_{y1} d_{y1} - a_{y1} d_{y1})^3 (a_{y1} c_{y1} - a_{y1} d_{y1})^3 + 10 (a_{y1} c_{y1} d_{y1} - a_{y1} d_{y1})^3 (a_{y1} c_{y1} - a_{y1} d_{y1})^3 + 10 (a_{y1} c_{y1} d_{y1} - a_{y1} d_{y1} - a_{y1} d_{y1})^3 + 10 (a_{y1} c_{y1} d_{y1} - a_{y1} d_{y1} - a_{y1} d_{y1})^3 + 10 (a_{y1} c_{y1} d_{y1} - a_{y1} d_{y1} - a_{y1} d_{y1})^3 + 10 (a_{y1} c_{y1} d_{y1} - a_{y1} d_{y1} - a_{y1} d_{y1})^3 + 10 (a_{y1} c_{y1} d_{y1} - a_{y1} d_{y1} - a_{y1} d_{y1})^3 + 10 (a_{y1} c_{y1} d_{y1} - a_{y1} d_{y1} - a_{y1} d_{y1})^3 + 10 (a_{y1} c_{y1} d_{y1} - a_{y1} d_{y1} - a_{y1} d_{y1} - a_{y1} d_{y1})^3 + 10 (a_{y1} c_{y1} d_{y1} - a_{y1} d_{$ $(c_{y1} d_{x1})^2 - 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (c_{x1} d_{y1} - c_{y1} d_{x1})^2 +$ $4(a_{x1}b_{y2}-a_{y1}b_{x2})(a_{x1}d_{y1}-a_{y1}d_{x1})(a_{x1}d_{y2}-a_{y1}d_{x2})(b_{x1}c_{y1}-b_{y1}c_{x1})^{3}+6(a_{x1}b_{y1}-a_{y1}d_{x2})(a_{x1}d_{y2}-a_{y1}d_{x2})(a_{x1}d_{y1}-a_{y1}d_{x2})^{3}$

 $(a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (c_{x1} d_{y1} - c_{y1} d_{x1})^2 + 12 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} b_{x1})^2 + 12 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} b_{x1})^2 + 12 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} b_{x1})^2 + 12 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} b_{x1})^2 + 12 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} b_{x1})^2 + 12 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} b_{x1})^2 + 12 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} b_{x1})^2 + 12 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} b_{x1})^2 + 12 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} b_{x1})^2 + 12 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} b_{x1})^2 + 12 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} b_{x1})^2 + 12 (a_{x1} b_{y1} - a_{y1} b_{x1} b_{y1} - a_{y1} b_{x1})^2 + 12 (a_{x1} b_{y1} - a_{y1} b_{x1} b_{y1} - a_{y1} b_{x1})^2 + 12 (a_{$ $(a_{u1} c_{x1})^2 (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{x1} d_{y1} - b_{y1} d_{x1}) (b_{x2} d_{y2} - b_{y2} d_{x2}) - 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - b_{y2} d_{x2})$ $(a_{y1} b_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (c_{x1} d_{y1} - c_{y1} d_{x1})^{2} - 12 (a_{x1} c_{y1} - a_{y1} c_{x1})^{2} (a_{x1} d_{y1} - a_{y1} d_{x1}) (b_{x1} b_{y2} - a_{y1} d_{x1})^{2}$ $(b_{x2} b_{y1}) (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) + 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y2} - a_{y1} b_{x2}) (a_{x1$ $a_{y1} d_{x2}) (c_{x1} d_{y1} - c_{y1} d_{x1})^{2} + 8 (a_{x1} c_{y1} - a_{y1} c_{x1})^{3} (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} d_{y1} - b_{y1} d_{x1}) (b_{x1} d_{y2} - b_{y2} b_{y1}) (b_{y1} d_{y1} - b_{y1} d_{y1}) (b_{y1} d_{y2} - b_{y2} b_{y1}) (b_{y1} d_{y1} - b_{y1} d_{y1}) (b_{y1} d_{y2} - b_{y2} b_{y1}) (b_{y1} d_{y1} - b_{y1} d_{y1}) (b_{y1} d_{y2} - b_{y2} b_{y1}) (b_{y1} d_{y1} - b_{y1} d_{y1}) (b_{y1} d_{y2} - b_{y2} b_{y1}) (b_{y1} d_{y1} - b_{y1} d_{y1}) (b_{y1} d_{y2} - b_{y2} b_{y1}) (b_{y1} d_{y1} - b_{y1} d_{y1}) (b_{y1} d_{y2} - b_{y2} b_{y1}) (b_{y1} d_{y1} - b_{y1} d_{y1}) (b_{y1} d_{y2} - b_{y2} b_{y1}) (b_{y1} d_{y1} - b_{y1} d_{y1}) (b_{y1} d_{y2} - b_{y2} b_{y1}) (b_{y1} d_{y1} - b_{y1} d_{y1}) (b_{y1} d_{y2} - b_{y2} b_{y1}) (b_{y1} d_{y1} - b_{y1} d_{y1}) (b_{y1} d_{y2} - b_{y2} b_{y1}) (b_{y1} d_{y1} - b_{y1} d_{y1}) (b_{y1} d_{y2} - b_{y2} b_{y1}) (b_{y1} d_{y1} - b_{y1} d_{y1}) (b_{y1} d_{y2} - b_{y2} b_{y1}) (b_{y1} d_{y1} - b_{y1} d_{y1}) ($ $(a_{x1} b_{y1} d_{x2}) - 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (c_{x1} d_{y1} - c_{y1} d_{x1})^2 - (c_{x1} d_{y1} - c_{y1} d_{x1})^2$ $20\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{3}\left(b_{y2}\,c_{x1}-b_{x2}\,c_{y1}\right)\left(c_{x1}\,d_{y1}-c_{y1}\,d_{x1}\right)\left(c_{x1}\,d_{y2}-c_{y1}\,d_{x2}\right)+6\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{3}$ $(a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (c_{x1} d_{y1} - c_{y1} d_{x1})^2 - 2 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (b_{x1} c_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 - 2 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y2} - a_{y1} d_$ $b_{y1} c_{x2}$)² $(b_{x1} d_{y1} - b_{y1} d_{x1}) - 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (c_{x1} d_{y1} - a_{y1} d_{x2})$ $(c_{y1} d_{x1})^2 + 6 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (b_{x1} c_{y2} - b_{y1} c_{x2})^2 (c_{x1} d_{y1} - c_{y1} d_{x1}) +$ $(6(a_{x1}b_{y1}-a_{y1}b_{x1})^2(a_{x1}b_{y2}-a_{y1}b_{x2})(a_{x1}d_{y2}-a_{y1}d_{x2})(c_{x1}d_{y1}-c_{y1}d_{x1})^2+12(a_{x1}b_{y1}-a_{y1}d_{x2})(a_{x1}d_{y2}-a_{y1}d_{x2})(a_{x1}d_{y2}-a_{y1}d_{x2})^2+12(a_{x1}b_{y1}-a_{y1}d_{x2})(a_{x1}d_{y2}-a_{y1}d_{x2})(a_{x1}d_{y2}-a_{y1}d_{x2})^2+12(a_{x1}d_{y1}-a_{y1}d_{x2})(a_{x1}d_{y1}-a_{y1}d_{x2})^2+12(a_{x1}d_{y1}-a_{y1}d_{x2})(a_{x1}d_{y1}-a_{y1}d_{x2})(a_{x1}d_{y1}-a_{y1}d_{x2})^2+12(a_{x1}d_{y1}-a_{y1}d_{x2})(a_{x1}d_{y1}-a_{y1}d_{x2})(a_{x1}d_{y1}-a_{y1}d_{x2})^2+12(a_{x1}d_{y1}-a_{y1}d_{x2})(a_{x1}d_{y1$ $(a_{x1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) (c_{y2} d_{x1} - c_{x2} d_{y1}) - 6 (a_{x1} b_{y1} - b_{y1} c_{x2}) (a_{y2} d_{y1} - a_{y1} c_{y2}) (a_{y2} d_{y1} - a_{y1} c_{y1}) - 6 (a_{y1} b_{y1} - a_{y1} c_{y1}) (a_{y1} c_{y1} - a_{y1} c_{y1}) (a_{y1} c_{y1} - a_{y1} c_{y1}) - 6 (a_{y1} c_{y1} - a_{y1} c_{y1}) (a_{y1} c_{y1} - a_{y1} c_{y1}$ $(a_{u1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (c_{x1} d_{y1} - c_{y1} d_{x1})^2 + 2 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x2})^2$ $a_{y1} d_{x1}) (b_{x1} c_{y1} - b_{y1} c_{x1})^3 + 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (c_{x1} d_{y1} - a_{y1} d_{x2}) (c_{x1} d_{y1} - a_{y1} d_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x2}) (a_{x$ $(c_{v1} d_{x1})^2 - 10 (a_{x1} b_{v1} - a_{v1} b_{x1})^3 (c_{x1} c_{v2} - c_{x2} c_{v1})^2 (c_{x1} d_{v1} - c_{v1} d_{x1}) + 12 (a_{x1} c_{v1} - a_{v1} c_{x1})^2 (a_{x1} d_{v1} - a_{v1} c_{x1})^2 (a_{x1} d_{v$ $(a_{y1} d_{x1})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) + 2 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (b_{x1} c_{y2} - b_{y1} c_{x2})^2 (b_{x1} d_{y2} - b_{$ $(b_{y1} d_{x2}) - 12(a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} d_{y1} - b_{y1} d_{x1}) - b_{y1} d_{x1}$ $6\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{2}\left(b_{x1}\,c_{y2}-b_{y1}\,c_{x2}\right)^{2}\left(c_{x1}\,d_{y2}-c_{y1}\,d_{x2}\right)-24\left(a_{x1}\,b_{y1}-a_{y1}\,c_{x2}\right)^{2}$ $(a_{u1} b_{u1}) (a_{u1} c_{u1} - a_{u1} c_{u1}) (a_{u1} d_{u1} - a_{u1} d_{u1}) (a_{u1} d_{u2} - a_{u1} d_{u2}) (b_{u1} b_{u2} - b_{u2} b_{u1}) (c_{u1} d_{u2} - a_{u1} d_{u2}) (c_{u1} d_{u$ $c_{y1} d_{x2}) + 12 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right) \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right)^2 \left(b_{x1} c_{y1} - b_{y1} c_{x1}\right) \left(b_{x1} c_{y2} - b_{y1} c_{x2}\right) \left(c_{x2} d_{y2} - b_{y1} c_{y2}\right) \left(c_{x2} d_{y2}$ $(c_{u2} d_{x2}) - 30 (a_{x1} b_{u1} - a_{u1} b_{x1})^2 (a_{x1} b_{u2} - a_{u1} b_{x2}) (a_{x1} d_{u1} - a_{u1} d_{x1}) (c_{x1} d_{u2} - c_{u1} d_{x2})^2 - (a_{x1} d_{u2} - a_{u1} d_{x2})^2$ $2\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)^{2}\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(b_{x1}\,c_{y1}-b_{y1}\,c_{x1}\right)^{3}+12\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,c_{y1}-a_{y1}\,b_{x1}\right)^{2}$ $a_{y1} c_{x1}$) $(a_{x1} d_{y1} - a_{y1} d_{x1}) (b_{x2} d_{y2} - b_{y2} d_{x2}) (c_{x1} d_{y2} - c_{y1} d_{x2}) + 10 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (c_{x1} c_{y2} - a_{y1} d_{x2}) + 10 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x1} c_{y2} - a_{y1} d_{x2}) + 10 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x1} c_{y2} - a_{y1} d_{x2}) + 10 (a_{x1} b_{y1} - a_{y1} d_{x2}) + 10 (a_{x1} b_{$ $(c_{x2} c_{y1})^2 (c_{x1} d_{y2} - c_{y1} d_{x2}) - 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (b_{y2} c_{x1} - b_{x2} c_{y1}) (c_{x1} d_{y1} - a_{y1} d_{x2})^2 (c_{x1} d_{y2} - a_{y1} d_{x2})^2 (c_{y1} d_{y1} - a_{y1} d_{y1} - a_{y1} d_{y1} - a_{y1} d_{y1})^2 (c_{y1} d_{y2} - a_{y1} d_{y1} - a$ $c_{y1} d_{x1}) + 2 \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right)^3 \left(b_{x1} b_{y2} - b_{x2} b_{y1}\right) \left(b_{x1} d_{y2} - b_{y1} d_{x2}\right)^2 - 8 \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right) \left(a_{x1} d_{y2} - b_{y1} d_{x2}\right)^2 - 8 \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right) \left(a_{x1} d_{y2} - b_{y1} d_{x2}\right)^2 - 8 \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right) \left(a_{x1} d_{y2} - b_{y1} d_{x2}\right)^2 - 8 \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right) \left(a_{x1} d_{y2} - b_{y1} d_{x2}\right)^2 - 8 \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right) \left(a_{x1} d_{y2} - b_{y1} d_{x2}\right)^2 - 8 \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right) \left(a_{x1} d_{y2} - b_{y1} d_{x2}\right)^2 - 8 \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right) \left(a_{x1} d_{y2} - b_{y1} d_{x2}\right)^2 - 8 \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right) \left(a_{x1} d_{y2} - b_{y1} d_{x2}\right)^2 - 8 \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right) \left(a_{x1} d_{y2} - b_{y1} d_{x2}\right)^2 - 8 \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right) \left(a_{x1} d_{y2} - b_{y1} d_{x2}\right)^2 - 8 \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right) \left(a_{x1} d_{y2} - b_{y1} d_{x2}\right)^2 - 8 \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right) \left(a_{x1} d_{y2} - b_{y1} d_{x2}\right)^2 - 8 \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right) \left(a_{x1} d_{y2} - b_{y1} d_{x2}\right)^2 - 8 \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right) \left(a_{x1} d_{y2} - b_{y1} d_{x2}\right)^2 - 8 \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right)^2 - 8$ $(a_{y1} d_{x2})^3 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} c_{y1} - b_{y1} c_{x1}) - 6 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (b_{x1} d_{y2} - a_{y1} c_{x1})^2 (b_{x1} d_{y1} - a_{y1} c_{x1})^2 (b_{x1} d_{y2} - a_{y1} c_{x1})^2 (b_{x1} d_{y1} - a_{y1$ $(b_{y1} d_{x2})^2 (b_{y2} c_{x1} - b_{x2} c_{y1}) + 12 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} d_{y2} - a_{y1} d_{x2})^2 (b_{y2} c_{y1} - b_{y2} c_{y1}) + 12 (a_{y1} c_{y1} - a_{y1} c_{x1})^2 (a_{y1} d_{y2} - a_{y1} d_{x2})^2 (b_{y2} c_{y1} - b_{y2} c_{y1}) + 12 (a_{y1} c_{y1} - a_{y1} c_{x1})^2 (a_{y1} d_{y2} - a_{y1} d_{x2})^2 (b_{y2} c_{y1} - b_{y2} c_{y1}) + 12 (a_{y1} c_{y1} - a_{y1} c_{y1})^2 (a_{y1} d_{y2} - a_{y1} d_{x2})^2 (b_{y2} c_{y1} - b_{y2} c_{y1}) + 12 (a_{y1} c_{y1} - a_{y1} c_{y1})^2 (a_{y1} d_{y2} - a_{y1} d_{y2})^2 (b_{y2} c_{y1} - a_{y1} c_{y1}) (b_{y1} d_{y2} - a_{y1} d_{y2})^2 (b_{y2} c_{y1} - a_{y1} c_{y1}) (b_{y1} d_{y2} - a_{y1} c_{y1})^2 (a_{y1} d_{y2} - a_{y1} d_{y2})^2 (b_{y2} c_{y1} - a_{y1} c_{y1}) (b_{y1} d_{y2} - a_{y1} c_{y1})^2 (a_{y1} d_{y2} - a_{y1} d_{y2})^2 (b_{y2} c_{y1} - a_{y1} c_{y1}) (b_{y1} d_{y2} - a_{y1} c_{y1})^2 (a_{y1} d_{y2} - a_{y1} d_{y2})^2 (b_{y2} c_{y1} - a_{y1} c_{y1})^2 (a_{y1} d_{y2} - a_{y1} d_{y2})^2 (a_{y1} d_{y2}$ $(b_{y1} d_{x2}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) (b_{x2} d_{x2} - b_{y1} d_{x2}) (b_{x$ $(b_{y2} d_{x2}) - 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x2} d_{y2} - b_{y2} d_{x2}) (c_{x1} d_{y2} - a_{y1} d_{x2}) (c_{x2} d_{y2} - a_{y2} d_{x2}) (c_{x1} d_{y2} - a_{y2} d_{x2}) (c_{x2} d_{y2} - a_{y2} d_{y2}) (c_{x2$ $c_{y1}\,d_{x2}) - 2\,(a_{x1}\,b_{y2} - a_{y1}\,b_{x2})\,(a_{x1}\,d_{y2} - a_{y1}\,d_{x2})^2\,(b_{x1}\,c_{y1} - b_{y1}\,c_{x1})^3 - 14\,(a_{x1}\,b_{y1} - a_{y1}\,b_{x1})^3\,(b_{x1}\,c_{y1} - a_{y1}\,b_{x2})^3$ $b_{y1} c_{x1} (c_{x2} d_{y2} - c_{y2} d_{x2})^2 + 10 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (b_{y2} c_{x1} - b_{x2} c_{y1}) (c_{x1} d_{y2} - c_{y1} d_{x2})^2 -$ $12\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(b_{x1}\,c_{y1}-b_{y1}\,c_{x1}\right)\left(b_{x1}\,c_{y2}-b_{y1}\,c_{x2}\right)\left(b_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)$ $(b_{y1} d_{x2}) - 54 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (c_{y2} d_{x1} - c_{x2} d_{y1}) (c_{x2} d_{y2} - c_{y2} d_{x2}) - c_{y2} d_{x2}$ $60\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)\left(c_{x1}\,d_{y1}-c_{y1}\,d_{x1}\right)\left(c_{x2}\,d_{y2}-c_{y2}\,d_{x2}\right) 72\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(c_{x1}\,c_{y2}-c_{x2}\,c_{y1}\right)^{2}-24\left(a_{x1}\,b_{y1}-a_{y1}\,d_{x2}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)$ $(a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) (c_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x2}) (a_{x1} d_{y$ $(c_{x2} c_{y1}) - 12 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (b_{x1} d_{y1} - b_{y1} d_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2})^2$ $c_3 = -6\left(a_{x1}\,a_{y2} - a_{x2}\,a_{y1}\right)\left(a_{x1}\,d_{y1} - a_{y1}\,d_{x1}\right)^5 + 30\left(a_{x1}\,a_{y2} - a_{x2}\,a_{y1}\right)\left(a_{x1}\,d_{y1} - a_{y1}\,d_{x1}\right)^4\left(a_{x1}\,d_{y2} - a_{y2}\,a_{y1}\right)^2 + 30\left(a_{x1}\,a_{y2} - a_{x2}\,a_{y1}\right)^2 + 30\left(a_{x1}\,a_{y2} - a_{x2}\,a_{y2}\right)^2 + 30\left(a_{x1}\,a_{y2}$ $(a_{x1} d_{x2}) + 30 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^4 - 60 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} d_{y1} - a_{y1} d_{x2})^4 - 60 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} d_{y1} - a_{y1} d_{x2})^4 - 60 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} d_{y1} - a_{y1} d_{x2})^4 - 60 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} d_{y1} - a_{y1} d_{x2})^4 - 60 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} d_{y1} - a_{y1} d_{x2})^4 - 60 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} d_{y1} - a_{y1} d_{x2})^4 - 60 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} d_{y1} - a_{y1} d_{x2})^4 - 60 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} d_{y1} - a_{y1} d_{x2})^4 - 60 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} d_{y1} - a_{y1} d_{x2})^4 - 60 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} d_{y1} - a_{y1} d_{x2})^4 - 60 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} d_{y1} - a_{y1} d_{x2})^4 - 60 (a_{x1} a_{y2} - a_{y1} a_{y1} - a_{y1} d_{x2})^4 - 60 (a_{x1} a_{y2} - a_{y1} a_{y1} - a_{y1} a_{y1} - a_{y1} a_{y1} - a_{y1} a_{y1} a_{y1} - a_{y1} a_{y1} a_{y1} a_{y1} - a_{y1} a_{y1}$ $(a_{u1} d_{u1})^3 (a_{u1} d_{u2} - a_{u1} d_{u2})^2 - 120 (a_{u1} b_{u2} - a_{u1} b_{u2}) (a_{u1} c_{u2} - a_{u1} c_{u2}) (a_{u1} d_{u1} - a_{u1} d_{u1})^3 (a_{u1} d_{u2} - a_{u1} d_{u2})^3 - 120 (a_{u1} b_{u2} - a_{u1} b_{u2}) (a_{u1} c_{u2} - a_{u1} c_{u2}) (a_{u1} d_{u1} - a_{u1} d_{u1})^3 (a_{u1} d_{u2} - a_{u1} d_{u2})^3 - 120 (a_{u1} b_{u2} - a_{u1} b_{u2}) (a_{u1} c_{u2} - a_{u1} c_{u2}) (a_{u1} d_{u2} - a_{u1} d_{u1})^3 (a_{u1} d_{u2} - a_{u1} d_{u2})^3 - 120 (a_{u1} b_{u2} - a_{u1} b_{u2}) (a_{u1} c_{u2} - a_{u1} c_{u2}) (a_{u1} d_{u2} - a_{u1} d_{u2})^3 - 120 (a_{u1} d_{u2} - a_{u1} d_{u2}) (a_{u1} d_{u2} - a_{u1} d_{u2})^3 - 120 (a_{u1} d_{u2} - a_{u1} d_{u2}) (a_{u2} d_{u2} - a_{u2} d_{u2}) (a_{u2} d_{u2} - a_{$

 $a_{y1} d_{x2}) - 20 \left(a_{x1} c_{y2} - a_{y1} c_{x2}\right)^3 \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right)^3 + 60 \left(a_{x1} a_{y2} - a_{x2} a_{y1}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right)^2 \left(a_{x1} d_{y2} - a_{y1} a_{y1}\right)^2 + 60 \left(a_{x1} a_{y2} - a_{y2} a_{y1}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right)^2 + 60 \left(a_{x1} a_{y2} - a_{y2} a_{y1}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right)^2 + 60 \left(a_{x1} a_{y2} - a_{y2} a_{y1}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right)^2 + 60 \left(a_{x1} a_{y2} - a_{y2} a_{y1}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right)^2 + 60 \left(a_{x1} a_{y2} - a_{y2} a_{y1}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right)^2 + 60 \left(a_{x1} a_{y2} - a_{y2} a_{y1}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right)^2 + 60 \left(a_{x1} a_{y2} - a_{y2} a_{y1}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right)^2 + 60 \left(a_{x1} a_{y2} - a_{y2} a_{y1}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right)^2 + 60 \left(a_{x1} a_{y2} - a_{y2} a_{y1}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right)^2 + 60 \left(a_{x1} a_{y2} - a_{y2} a_{y1}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right)^2 + 60 \left(a_{x1} a_{y2} - a_{y2} a_{y1}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right)^2 + 60 \left(a_{x1} a_{y2} - a_{y2} a_{y1}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right)^2 + 60 \left(a_{x1} a_{y2} - a_{y2} a_{y1}\right) \left(a_{x1} d_{y2} - a_{y2} a_{y1}\right) \left(a_{x1} d_{y2} - a_{y2} a_{y1}\right) \left(a_{x1} d_{y2} - a_{y2} a_{y2}\right) \left(a_{x1} d_{y2} -$ $(a_{y1} d_{x2})^3 + 180 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 + (a_{x1} d_{y2}$ $60\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)^{3}\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)^{2}\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)-30\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x2}\right)$ $a_{y1} d_{x1}$) $(a_{x1} d_{y2} - a_{y1} d_{x2})^4 - 120 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2})^4 - 120 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2})^4 - 120 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2})^4 - 120 (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x2} d_{y2} - a_{y1} d_{x2})^4 - 120 (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x2} d_{y2} - a_{y2} d_{y2}) (a_{x2} d_{y2} - a_{y2} d_{y2} - a_{y2} d_{y2}) (a_{x2} d_{y2} - a_$ $a_{y1} d_{x2})^3 - 60 \left(a_{x1} c_{y2} - a_{y1} c_{x2}\right)^3 \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right) \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right)^2 + 6 \left(a_{x1} a_{y2} - a_{x2} a_{y1}\right) \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right)^2 + 6 \left(a_{x1} a_{y2} - a_{x2} a_{y1}\right) \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right)^2 + 6 \left(a_{x1} a_{y2} - a_{x2} a_{y1}\right) \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right)^2 + 6 \left(a_{x1} a_{y2} - a_{y1} a_{x2}\right)^2 + 6 \left(a_{x1} a$ $(a_{u1} d_{x2})^5 + 30 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^4 + 20 (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (a_{x1} d_{y2} - a_{y1} c_{y2})^4 + 20 (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (a_{x1} d_{y2} - a_{y1} c_{y2})^4 + 20 (a_{y1} c_{y2} - a_{y1} c_{y2})^3 (a_{y1} d_{y2} - a_{y1} c_{y2})^4 + 20 (a_{y1} c_{y2} - a_{y1} c_{y2})^3 (a_{y1} d_{y2} - a_{y1} c_{y2})^4 + 20 (a_{y1} c_{y2} - a_{y1} c_{y2})^3 (a_{y1} d_{y2} - a_{y1} c_{y2})^4 + 20 (a_{y1} c_{y2} - a_{y1} c_{y2})^3 (a_{y1} d_{y2} - a_{y1} c_{y2})^4 + 20 (a_{y1} c_{y2} - a_{y1} c_{y2})^3 (a_{y1} d_{y2} - a_{y1} c_{y2})^4 + 20 (a_{y1} c_{y2} - a_{y1} c_{y2})^3 (a_{y1} d_{y2} - a_{y1} c_{y2})^4 + 20 (a_{y1} c_{y2} - a_{y1} c_{y2})^3 (a_{y1} d_{y2} - a_{y1} c_{y2})^4 + 20 (a_{y1} c_{y2} - a_{y1} c_{y2})^3 (a_{y1} d_{y2} - a_{y1} c_{y2})^3 (a_{y1} d_{y2} - a_{y1} c_{y2})^4 + 20 (a_{y1} c_{y2} - a_{y1} c_{y2})^3 (a_{y1} d_{y2} - a_{y1} c_{y2})^4 + 20 (a_{y1} c_{y2} - a_{y1} c_{y2})^3 (a_{y1} d_{y2} - a_{y1} c_{$ $(a_{y1} d_{x2})^3 - 2 (a_{x1} c_{y1} - a_{y1} c_{x1})^4 (a_{y2} c_{x1} - a_{x2} c_{y1}) (c_{x1} d_{y1} - c_{y1} d_{x1}) - 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} (a_{x2} b_{y1}) (b_{x1} d_{y1} - b_{y1} d_{x1})^3 + 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} d_{y1} - b_{y1} d_{x1})^2 (b_{x1} d_{y2} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{y2} b_{y1}) (a_{y1} b_{y1} - a_{y1} d_{x1})^2 (a_{y2} b_{y1} - a_{y1} b_{y1})^2 (a_{y2} b_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1})^2 (a_{y2} b_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1})^2 (a_{y2} b_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1})^2 (a_{y2} b_{y1} - a_{y1} b_{y1} -$ $(b_{y1} d_{x2}) + 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1})^2 - b_{y1} d_{y1} d_{y1} + b_{y1} d_{y1} d_{y$ $12\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{y2}\,b_{x1}-a_{x2}\,b_{y1}\right)\left(b_{x1}\,d_{y1}-b_{y1}\,d_{x1}\right)\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)^{2}-24\left(a_{x1}\,b_{y1}-a_{y1}\,b_{y1}\right)^{2}$ $(a_{y1} b_{x1})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) - 4 (a_{x1} b_{y1} - b_{y1} d_{x2})$ $(a_{y1} b_{x1})^2 (b_{x1} c_{y2} - b_{y1} c_{x2})^3 (b_{x1} d_{y1} - b_{y1} d_{x1}) + 2 (a_{x1} c_{y1} - a_{y1} c_{x1})^4 (a_{y2} c_{x1} - a_{x2} c_{y1}) (c_{x1} d_{y2} - a_{y1} c_{x1})^4 (a_{y2} c_{x1} - a_{y2} c_{y1}) (c_{x1} d_{y2} - a_{y1} c_{x1})^4 (a_{y2} c_{x1} - a_{y2} c_{y1}) (c_{x1} d_{y2} - a_{y1} c_{x1})^4 (a_{y2} c_{x1} - a_{y2} c_{y1}) (c_{x1} d_{y2} - a_{y1} c_{x1})^4 (a_{y2} c_{x1} - a_{y2} c_{y1}) (c_{x1} d_{y2} - a_{y1} c_{x1})^4 (a_{y2} c_{x1} - a_{y2} c_{y1}) (c_{x1} d_{y2} - a_{y1} c_{x1})^4 (a_{y2} c_{x1} - a_{y2} c_{y1}) (c_{x1} d_{y2} - a_{y1} c_{x1})^4 (a_{y2} c_{x1} - a_{y2} c_{y1}) (c_{x1} d_{y2} - a_{y1} c_{x1})^4 (a_{y2} c_{x1} - a_{y2} c_{y1}) (c_{x1} d_{y2} - a_{y1} c_{x1})^4 (a_{y2} c_{x1} - a_{y2} c_{y1}) (c_{x1} d_{y2} - a_{y1} c_{x1})^4 (a_{y2} c_{x1} - a_{y2} c_{y1}) (c_{x1} d_{y2} - a_{y1} c_{x1})^4 (a_{y2} c_{x1} - a_{y2} c_{y1}) (c_{x1} d_{y2} - a_{y1} c_{x1})^4 (a_{y2} c_{x1} - a_{y2} c_{y1}) (c_{x1} d_{y2} - a_{y1} c_{x1})^4 (a_{y2} c_{x1} - a_{y2} c_{y1}) (c_{x1} d_{y2} - a_{y1} c_{y1})^4 (a_{y2} c_{x1} - a_{y2} c_{y1}) (c_{x1} d_{y2} - a_{y1} c_{y1})^4 (a_{y2} c_{x1} - a_{y2} c_{y1}) (c_{x1} d_{y2} - a_{y1} c_{y1})^4 (a_{y2} c_{x1} - a_{y2} c_{y1}) (c_{x1} d_{y2} - a_{y1} c_{y1})^4 (a_{y2} c_{x1} - a_{y2} c_{y1}) (c_{x1} d_{y2} - a_{y1} c_{y1})^4 (a_{y2} c_{y1} - a_{y1} c_{y1} c_{y1} c_{y1})^4 (a_{y2} c_{y1} - a_{y1} c_{y1} c_{y1} c_{y1} c_{y1})^4 (a_{y2} c_{y1} c_{y1$ $(c_{y1} d_{x2}) + 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} d_{y2} - b_{y1} d_{x2})^3 + 2 (a_{x1} c_{y1} - a_{y1} c_{x1})^4 (b_{y2} c_{x1} - a_{y1} c_{x1})^4 (b_{y2} c_{y1} - a_{y1} c_{x1})^4 (b_{y2} c_{y1} - a_{y1} c_{y1})^4 (b_{y2} c_{y1}$ $b_{x2}\,c_{y1})\,(c_{x1}\,c_{y2}-c_{x2}\,c_{y1})+12\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})^2\,(b_{x1}\,b_{y2}-b_{x2}\,b_{y1})\,(b_{x1}\,c_{y2}-b_{y1}\,c_{x2})\,(b_{x1}\,d_{y2}-b_{y2}\,b_{y1})$ $b_{y1} d_{x2})^2 + 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} c_{y2} - b_{y1} c_{x2})^3 (b_{x1} d_{y2} - b_{y1} d_{x2}) - 4 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} b_{x1})$ $(a_{y1} d_{x1})^3 (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} d_{y1} - b_{y1} d_{x1}) - 2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^3 (a_{y2} c_{x1} - a_{$ $(a_{x2} c_{y1}) + 12 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^3 (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) +$ $12\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)^{3}\left(b_{x1}\,b_{y2}-b_{x2}\,b_{y1}\right)\left(b_{x1}\,c_{y2}-b_{y1}\,c_{x2}\right)+24\left(a_{x1}\,a_{y2}-b_{y2}\,a_{y1}\,a_{y2}-b_{y2}\,a_{y2}\,a_{y1}\right)$ $(a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^3 (c_{x1} d_{y1} - c_{y1} d_{x1}) + 6 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^3 (a_{y1} - a_{y1} d_{y1}) + 6 (a_{y1} a_{y1} - a_{y1} a_{y1}) (a_{y1} a_{y1} - a_{y1} a_{y1}) (a_{y1} a_{y1} - a_{y1} a_{y1}) + 6 (a_{y1} a_{y1} - a_{y1} a_{y1}) (a_{y1} a_{y1} - a_{y1} a_{y1} a_{y1}) (a_{y1} a_{y1} - a_{y1} a_{y1} a_{y1} - a_{y1} a_{y1}) (a_{y1} a_{y1} - a_{y1} a_{y1} a_{y1}) (a_{y1} a_{y1} - a_{y1} a_{y1} a_{y1} a_{y1} a_{y1}) (a_{y1} a_{y1} - a_{y1} a_{y1}$ $a_{u1}\,d_{x1})^4\,(a_{u2}\,c_{x1} - a_{x2}\,c_{y1}) - 8\,(a_{x1}\,a_{y2} - a_{x2}\,a_{y1})\,(a_{x1}\,b_{y1} - a_{y1}\,b_{x1})\,(a_{x1}\,d_{y1} - a_{y1}\,d_{x1})^3\,(c_{x1}\,d_{y2} - a_{y1}\,d_{x1})^3\,(a_{y1}\,d_{y1} - a_{y1}\,d_{y1})^3\,(a_{y1}\,d_{y2} - a_{y1}\,d_{y1})^3\,(a_{y1}\,d_{y2} - a_{y1}\,d_{y1})^3\,(a_{y1}\,d_{y1} - a_{y1}\,d_{y1})^3\,(a_{y1}\,d_{y2} - a_{y1}\,d_{y1})^3\,(a_{y1}\,d_{y1} - a_{y1}\,d_{y1})^3\,(a_{y1}\,d_{y1} - a_{y1}\,d_{y1})^3\,(a_{y1}\,d_{y2} - a_{y1}\,d_{y1})^3\,(a_{y1}\,d_{y1} - a_{y1}$ $(c_{y1} d_{x2}) - 16 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^3 (b_{x1} d_{y2} - b_{y1} d_{x2}) - (a_{x1} a_{y2} - a_{y1} a_{x2}) (a_{x1} a_{y2} - a_{y1} a_{x2}) - (a_{x1} a_{y2} - a_{y1} a_{x2}) - (a_{x1} a_{y2} - a_{y1} a_{x2}) (a_{x1} a_{y2} - a_{y1} a_{x2}) - (a_{x1} a_{y2} - a_{y1} a_{x2}) - (a_{x1} a_{y2} - a_{y1} a_{x2}) (a_{x1} a_{y2} - a_{y1} a_{x2}) - (a_{x1} a_{y1} a_{x2} - a_{y1} a_{x2}) - (a_{x1} a_{y2} - a_{y1} a_{x2}) - (a_{x1} a_{y1} a_{y1} - a_{y1} a_{x2}) - (a_{x1} a_{y2} - a_{y1} a_{x2}) - (a_{x1} a_{y2} - a_{y1} a_{x2}) - (a_{x1} a_{y1} a_{y1} a_{x2}) - (a_{x1} a_{y2} a_{y1} a_{y1} a_{y2} a_{y2} a_{y1} a_{y2}) - (a_{x1} a_{y2} a_{y1} a_{y2} a_{y1} a_{y2} a_{y2} a_{y2} a_{y2} a_{y2}) - (a_{x1} a_{y2} a_{y1} a_{y2} a_{y2}$ $32\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)^{3}\left(c_{x1}\,c_{y2}-c_{x2}\,c_{y1}\right)+6\left(a_{x1}\,c_{y1}-a_{y1}\,b_{x2}\right)\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)^{3}$ $(a_{y1} c_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} c_{x1} - a_{x2} c_{y1}) - 18 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x2}) (a_{y2} c_{x1} - a_{x2} c_{y1}) - 18 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x2}) (a_{y2} c_{x1} - a_{x2} c_{y1}) - 18 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x2}) (a_{y2} c_{x1} - a_{y2} c_{y1}) - 18 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x2}) (a_{y2} c_{x1} - a_{y2} c_{y1}) - 18 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x2}) (a_{y2} c_{x1} - a_{y2} c_{y1}) - 18 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x2}) (a_{y2} c_{x1} - a_{y2} c_{y1}) - 18 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x2}) (a_{y2} c_{x1} - a_{y2} c_{y1}) - 18 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x2}) (a_{y2} c_{x1} - a_{y2} c_{y1}) - 18 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x2}) (a_{y2} c_{x1} - a_{y2} c_{y1}) - 18 (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} c_{x1} - a_{y2} c_{y1}) - 18 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x2}) (a_{y2} c_{x1} - a_{y2} c_{y1}) - 18 (a_{x1} d_{y1} - a_{y1} d_{x2}) (a_{y2} c_{x1} - a_{y2} c_{y1}) - 18 (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} c_{x1} - a_{y2} c_{y1}) - 18 (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} c_{x1} - a_{y2} c_{y1}) - 18 (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} c_{x1} - a_{y2} c_{y1}) - 18 (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} c_{x1} - a_{y2} c_{y1}) - 18 (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} c_{x1} - a_{y2} c_{y1}) - 18 (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} c_{x1} - a_{y2} c_{y1}) - 18 (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} c_{x1} - a_{y2} c_{y1}) - 18 (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} c_{x1} - a_{y2} c_{y1}) - 18 (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})$ $(a_{u1} d_{u1})^2 (a_{u1} d_{u2} - a_{u1} d_{u2}) (a_{u2} b_{u1} - a_{u2} b_{u1}) (b_{u1} d_{u2} - b_{u1} d_{u2}) - 36 (a_{u1} b_{u1} - a_{u1} b_{u1}) (a_{u1} d_{u1} - a_{u2} b_{u1}) (a_{u2} d_{u2} - a_{u1} d_{u2}) - 36 (a_{u1} b_{u2} - a_{u1} d_{u2}) (a_{u2} d_{u2} - a_{u1} d_{u2}) (a_{u2} d_{u2} - a_{u1} d_{u2}) - 36 (a_{u1} d_{u2} - a_{u1} d_{u2}) (a_{u2} d_{u2} - a_{u2} d_{$ $a_{y1}\,d_{x1})^2\left(a_{x1}\,d_{y2} - a_{y1}\,d_{x2}\right)\left(b_{x1}\,b_{y2} - b_{x2}\,b_{y1}\right)\left(b_{x1}\,c_{y2} - b_{y1}\,c_{x2}\right) + 144\left(a_{x1}\,a_{y2} - a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1} - a_{y1}\,a_{y2}\right) + 144\left(a_{x1}\,a_{y2} - a_{x2}\,a_{y1}\right)\left(a_{x1}\,a_{y2} - a_{y1}\,a_{y2}\right) + 144\left(a_{x1}\,a_{y2} - a_{y2}\,a_{y1}\right) + 144\left(a_{x$ $(a_{x1} b_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (c_{x1} d_{y2} - c_{y1} d_{x2}) + 60 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} d_{y1} - a_{y1} d_{x2}) + 60 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} d_{y1} - a_{y1} d_{x2}) + 60 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} d_{y1} - a_{y1} d_{x2}) + 60 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} d_{y1} - a_{y1} d_{x2}) + 60 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} d_{y1} - a_{y1} a_{x2}) + 60 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{x2}) + 60 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{x2}) + 60 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{x2}) + 60 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{x2}) + 60 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{x2}) + 60 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{x2}) + 60 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{x2}) + 60 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{x2}) + 60 (a_{x1} a_{y2} - a_{y1} a_{x2}) + 60 (a_{x1} a_{y2} - a_{y1} a_{y2}) + 60 (a_{x1} a_{y2} - a_{y1} a_{y2} - a_{y1} a_{y2}) + 60 (a_{x1} a_{y2} - a_{y1} a_{y2}) + 60 (a_{x1} a_{y2} - a_{y1} a_{y2}) + 60 (a_{x1} a_{y2$ $(a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (b_{x1} c_{y1} - b_{y1} c_{x1}) + 96 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y1} - a_{y1} b_{x2}) (a_{x1} d_{y1} - a_{y1} b_{x2}) (a_{x1} d_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y1} - a_{y1} b_{x2}) (a_{x1} d_{y1} - a_{y1} b_{x2}) (a_{x1} d_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y1} - a_{y1} b_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x2})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x2})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x2})^2 ($ $(a_{u1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (c_{x1} c_{y2} - c_{x2} c_{y1}) - 6 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x2} d_{y2} - a_{y2} d_{x2}) - 6 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x2} d_{y2} - a_{y1} d_{x2}) (a_{x2} d_{y2} - a_{y2} d_{x2}) - 6 (a_{x2} d_{y2} - a_{y1} d_{x2}) (a_{x2} d_{y2} - a_{y2} d_{x2}) (a_{x2} d_{y2} - a_{y2} d_{x2}) - 6 (a_{x2} d_{y2} - a_{y2} d_{x2}) (a_{x2} d_{y2} - a_{y2} d_{x2}) (a_{x2} d_{y2} - a_{y2} d_{x2}) - 6 (a_{x2} d_{y2} - a_{y2} d_{x2}) (a_{x2} d_{y2} - a$ $(a_{y1} d_{x2})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) + 36 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (a_{y2} b_{x1} - a_{y$ $(a_{x2} b_{y1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) + 36 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (b_{x1} b_{y2} - a_{y1} d_{x2})^2 (b_{x1} b_{x1} - a_{y1}$ $b_{x2}\,b_{y1})\,(b_{x1}\,c_{y2}-b_{y1}\,c_{x2})-72\,(a_{x1}\,a_{y2}-a_{x2}\,a_{y1})\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})\,(a_{x1}\,d_{y1}-a_{y1}\,d_{x1})\,(a_{x1}\,d_{y2}-a_{y2}\,d_{x2})$ $(a_{u1} d_{u2})^2 (c_{x1} d_{u2} - c_{u1} d_{x2}) - 8 (a_{x1} b_{u1} - a_{u1} b_{x1}) (a_{x1} d_{u1} - a_{u1} d_{x1}) (a_{x1} d_{u2} - a_{u1} d_{x2})^3 (a_{u2} c_{x1} - a_{u1$ $(a_{x2} c_{y1}) - 40 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2})^3 (a_{y2} b_{x1} - a_{x2} b_{y1}) - (a_{x1} d_{y2} - a_{y1} d_{x2})^3 (a_{y2} b_{x1} - a_{x2} b_{y1}) - (a_{x1} d_{y2} - a_{y1} d_{x2})^3 (a_{y2} b_{x1} - a_{x2} b_{y1}) - (a_{x1} d_{y2} - a_{y1} d_{x2})^3 (a_{y2} b_{x1} - a_{x2} b_{y1}) - (a_{y1} d_{y2} - a_{y1} d_{x2})^3 (a_{y2} d_{y1} - a_{y1} d_{y2}) - (a_{y1} d_{y1} - a_{y1} d_{y1}) - (a_{y1} d_{y1} - a_{y$ $96\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)^{2}\left(c_{x1}\,c_{y2}-c_{x2}\,c_{y1}\right)+$ $(2(a_{x1}c_{y1} - a_{y1}c_{x1})^2(a_{x1}d_{y2} - a_{y1}d_{x2})^3(a_{y2}c_{x1} - a_{x2}c_{y1}) - 4(a_{x1}b_{y1} - a_{y1}b_{x1})(a_{x1}d_{y2} - a_{y1}d_{x2})^3$ $(a_{y1} d_{x2})^3 (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2})^3 (b_{x1} b_{y2} - a_{y1} d_{x2})^3 (a_{y2} b_{y1} - a_{y1} d_{y2})^3 (a_{y2} b_{y1} - a_{y$ $b_{x2}\,b_{y1})\,(b_{x1}\,c_{y2}-b_{y1}\,c_{x2})+24\,(a_{x1}\,a_{y2}-a_{x2}\,a_{y1})\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})\,(a_{x1}\,d_{y2}-a_{y1}\,d_{x2})^3\,(c_{x1}\,d_{y2}-a_{y1}\,d_{y2})^3$ $(a_{y1} d_{x2}) + 6 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2})^4 (a_{y2} c_{x1} - a_{x2} c_{y1}) + 10 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} d_{y2} - a_{y1} d_{x2})^4 (a_{y2} c_{x1} - a_{x2} c_{y1}) + 10 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} d_{y2} - a_{y1} d_{x2})^4 (a_{y2} c_{x1} - a_{x2} c_{y1}) + 10 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} d_{y2} - a_{y1} d_{x2})^4 (a_{y2} c_{x1} - a_{x2} c_{y1}) + 10 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} d_{y2} - a_{y1} d_{x2})^4 (a_{y2} c_{x1} - a_{x2} c_{y1}) + 10 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} d_{y2} - a_{y1} d_{x2})^4 (a_{y2} c_{x1} - a_{x2} c_{y1}) + 10 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} d_{y2} - a_{y1} d_{x2})^4 (a_{y2} c_{x1} - a_{x2} c_{y1}) + 10 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} d_{y2} - a_{y1} d_{x2})^4 (a_{y2} c_{x1} - a_{x2} c_{y1}) + 10 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} d_{y2} - a_{y1} d_{x2})^4 (a_{y2} c_{x1} - a_{y2} c_{y1}) + 10 (a_{x1} a_{y2} - a_{y2} a_{y1}) (a_{x1} d_{y2} - a_{y1} d_{x2})^4 (a_{y2} c_{x1} - a_{y2} c_{y1}) + 10 (a_{x1} a_{y2} - a_{y2} a_{y1}) (a_{x1} d_{y2} - a_{y1} a_{y2}) (a_{x1} d_{y2} - a_{y1} a_{y2}) + 10 (a_{x1} a_{y2} - a_{y2} a_{y1}) (a_{x1} d_{y2} - a_{y1} a_{y2}) (a_{x1} d_{y2} - a_{y1} a_{y2$ $(a_{x1} \, d_{x2})^4 \, (b_{x1} \, c_{y1} - b_{y1} \, c_{x1}) + 32 \, (a_{x1} \, b_{y1} - a_{y1} \, b_{x1}) \, (a_{x1} \, b_{y2} - a_{y1} \, b_{x2}) \, (a_{x1} \, d_{y2} - a_{y1} \, d_{x2})^3 \, (c_{x1} \, c_{y2} - a_{y$ $(c_{x2} c_{y1}) - 6 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (c_{x1} d_{y1} - c_{y1} d_{x1}) +$ $24\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{2}\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)\left(c_{x1}\,d_{y1}-c_{y1}\,d_{x1}\right)-$

 $12\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{2}\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(c_{x1}\,d_{y1}-c_{y1}\,d_{x1}\right) 8\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{2}\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)^{3}\left(c_{x1}\,d_{y1}-c_{y1}\,d_{x1}\right)-12\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,c_{y1}-a_{y1}\,b_{x1}\right)$ $(a_{y1} c_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} d_{y1} - b_{y1} d_{x1}) (c_{x1} d_{y1} - c_{y1} d_{x1}) + 24 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} b_{x1}) (a_{x$ $(a_{y1} c_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) (c_{x1} d_{y1} - c_{y1} d_{x1}) + 24 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} b_{x1}) (a_{x$ $(a_{y1} c_{x1})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) (c_{x1} d_{y1} - c_{y1} d_{x1}) + 12 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} c_{x2}) (a_{y1} c_{y1} c_{y2} - a_{y1} c_{y1} c_{y1} c_{y1}) + 12 (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y1} c_{y1} c_{y1}$ $(a_{u1} b_{x1}) (a_{x1} c_{v1} - a_{v1} c_{x1})^2 (c_{x1} d_{v1} - c_{v1} d_{x1})^2 - 12 (a_{x1} a_{v2} - a_{x2} a_{v1}) (a_{x1} b_{v1} - a_{v1} b_{x1}) (a_{x1} c_{v1} - a_{v1} b_{x1}) (a_$ $(a_{y1} c_{x1})^2 (c_{x1} d_{y1} - c_{y1} d_{x1}) (c_{x1} d_{y2} - c_{y1} d_{x2}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} b_{x2}) (a_{x$ $(a_{y1} c_{x1})^2 (c_{x1} c_{y2} - c_{x2} c_{y1}) (c_{x1} d_{y1} - c_{y1} d_{x1}) + 4 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{y2} c_{x1} - a_{y1$ $a_{x2}\,c_{y1})\,(b_{x1}\,c_{y1}-b_{y1}\,c_{x1})\,(c_{x1}\,d_{y1}-c_{y1}\,d_{x1}) - 6\,(a_{x1}\,a_{y2}-a_{x2}\,a_{y1})\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})\,(a_{x1}\,d_{y1}-a_{y1}\,b_{x1})$ $(a_{x1} d_{x1})^2 (b_{x1} d_{y1} - b_{y1} d_{x1})^2 - 20 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (b_{x1} d_{y1} - b_{y1} d_{x1})^2 +$ $6\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(b_{x1}\,d_{y1}-b_{y1}\,d_{x1}\right)^{2}\left(c_{x1}\,d_{y1}-c_{y1}\,d_{x1}\right)+10\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}$ $(a_{y1} b_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{y2} c_{x1} - a_{x2} c_{y1}) (b_{x1} d_{y1} - b_{y1} d_{x1})^2 - 12 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} a_{y1})^2 - 12 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} a_{y1})^2 - 12 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{y1})^2 - 12 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{y1})^2 - 12 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{y1})^2 - 12 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{y1})^2 - 12 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{y1}) (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{y1}) (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y1} - a_{y1} a$ $(a_{u1} b_{x1})^2 (b_{x1} d_{y1} - b_{y1} d_{x1})^2 (c_{x1} d_{y2} - c_{y1} d_{x2}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (b_{x1} d_{y1} - a_{y1} b_{x2})^2 (a_{y1} d_{y2} - a_{y1} d_{y2}) (a_{y1} d_{y1} - a_{y1} d_{y2})^2 (a_{y1} d_{y2} - a_{y1} d_{y2}) (a_{y1} d_{y1} - a_{y1} d_{y2})^2 (a_{y1} d_{y2} - a_{y1} d_{y2}) (a_{y1} d_{y1} - a_{y1} d_{y2})^2 (a_{y1} d_{y2} - a_{y1} d_{y2}) (a_{y1} d_{y1} - a_{y1} d_{y2})^2 (a_{y1} d_{y2} - a_{y1} d_{y2}) (a_{y1} d_{y1} - a_{y1} d_{y2})^2 (a_{y1} d_{y2} - a_{y1} d_{y2}) (a_{y1} d_{y1} - a_{y1} d_{y2})^2 (a_{y1} d_{y2} - a_{y1} d_{y2}) (a_{y1} d_{y2} - a_{y1} d_{y2})^2 (a_{y1} d_{y2} - a_{y1} d_{y2}) (a_{y1} d_{y2} - a_{y1} d_{y2})^2 (a_{y1} d_{y2} - a_{y1} d_{y2}) (a_{y1} d_{y2} - a_{y1} d_{y2})^2 (a_{y1} d_{y2} - a_{y1} d_{y2}) (a_{y1} d_{y2} - a_{y1} d_{y2})^2 (a_{y1} d_{y2} - a_{y1} d_{y2}) (a_{y1} d_{y2} - a_{y1} d_{y2})^2 (a_{y1} d_{y2} - a_{y1} d_{y2}) (a_{y1} d_{y2} - a_{y1} d_{y2})^2 (a_{y1} d_{y1} - a_{y1} d_{y2})^2 (a_{y1} d_{y2} - a_{y1} d_{y2})^2 (a_{y1} d_{y1} - a_{y1} d_{y1} - a_{y1} d_{y2})^2 (a_{y1} d_{y1} - a_{y1} d_{y1} - a_{y1} d_{y1})^2 (a_{y1} d_{y1} - a_{y1} d_{y1} - a_{y1}$ $b_{y1}\,d_{x1})^2\,(c_{x1}\,c_{y2}-c_{x2}\,c_{y1}) + 6\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})^2\,(a_{y2}\,c_{x1}-a_{x2}\,c_{y1})\,(b_{x1}\,c_{y1}-b_{y1}\,c_{x1})\,(b_{x1}\,d_{y1}-a_{y1}\,b_{x1})^2$ $(b_{y1} d_{x1})^2 + 12 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (b_{x1} d_{y1} - b_{y1} d_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) +$ $12\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(b_{x1}\,d_{y1}-b_{y1}\,d_{x1}\right)\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)\left(c_{x1}\,d_{y2}-c_{y1}\,d_{x2}\right)+$ $24\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)\left(b_{x1}\,d_{y1}-b_{y1}\,d_{x1}\right)\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)\left(c_{x1}\,c_{y2}-c_{x2}\,c_{y1}\right) 4\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{y2}\,c_{x1}-a_{x2}\,c_{y1}\right)\left(b_{x1}\,c_{y1}-b_{y1}\,c_{x1}\right)\left(b_{x1}\,d_{y1}-b_{y1}\,d_{x1}\right)\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)+$ $6\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{2}\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)^{2}\left(c_{x1}\,d_{y2}-c_{y1}\,d_{x2}\right)+24\left(a_{x1}\,b_{y2}-a_{y1}\,d_{x2}\right)^{2}$ $a_{u1} \, b_{x2}) \, (a_{x1} \, c_{y1} - a_{y1} \, c_{x1})^2 \, (a_{x1} \, c_{y2} - a_{y1} \, c_{x2}) \, (a_{x1} \, d_{y2} - a_{y1} \, d_{x2}) \, (c_{x1} \, d_{y2} - c_{y1} \, d_{x2}) + 8 \, (a_{x1} \, c_{y1} - a_{y1} \, d_{x2}) \, (a_{x1} \, c_{y1} - a_{y1} \, d_{x2}) + 6 \, (a_{x1} \, c_{y1} - a_{y1} \, d_{x2}) \, (a_{x1} \, c_{y1} - a_{y1} \, d_{x2}) + 6 \, (a_{x1} \, c_{y1} - a_{y1} \, d_{x2}) \, (a_{x1} \, c_{y1} - a_{y1} \, d_{x2}) + 6 \, (a_{x1} \, c_{y1} - a_{y1} \, d_{x2}) \, (a_{x1} \, c_{y1} - a_{y1} \, d_{x2}) + 6 \, (a_{x1} \, c_{y1} - a_{y1} \, d_{x2}) \, (a_{x1} \, c_{y1} - a_{y1} \, d_{x2}) + 6 \, (a_{x1} \, c_{y1} - a_{y1} \, d_{x2}) \, (a_{x1} \, c_{y1} - a_{y$ $(a_{y1} c_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (c_{x1} d_{y2} - c_{y1} d_{x2}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{y2} b_{x1} - a_$ $a_{x2}\,b_{y1})\,(b_{x1}\,d_{y2}-b_{y1}\,d_{x2})\,(c_{x1}\,d_{y2}-c_{y1}\,d_{x2}) - 24\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})^2\,(b_{x1}\,b_{y2}-a_{y1}\,b_{x1})^2\,(a_{x2}\,b_{y1}-a_{y1}\,b_{x1})^2\,(a_{x1}\,b_{y2}-a_{y1}\,b_{x1})^2\,(a_{x1}\,b_{y2}-a_{y1}\,b_{x1})^2\,(a_{x2}\,b_{y1}-a_{y1}\,b_{x1})^2\,(a_{x1}\,b_{y2}-a_{y1}\,b_{y2}-a_{y1}\,b_{y2})^2\,(a_{x1}\,b_{y2}-a_{y1}\,b_{y2}-a_{y1}\,b_{y2})^2\,(a_{x1}\,b_{y2}-a_{y1}\,b_{y2}-a_{y1}\,b_{y2})^2\,(a_{x1}\,b_{y2}-a_{y1}\,b_{y2}-a_{y1}\,b_{y2})^2\,(a_{x1}\,b_{y2}-a_{y1}\,b_{y2}-a_{y1}\,b_{y2})^2\,(a_{x1}\,b_{y2}-a_{y1}\,b_{y2}-a_{y1}\,b_{y2})^2\,(a_{x1}\,b_{y2}-a_{y1}\,b_{y$ $(b_{x2} \ b_{y1}) \ (b_{x1} \ c_{y2} - b_{y1} \ c_{x2}) \ (c_{x1} \ d_{y2} - c_{y1} \ d_{x2}) + 12 \ (a_{x1} \ a_{y2} - a_{x2} \ a_{y1}) \ (a_{x1} \ b_{y1} - a_{y1} \ b_{x1}) \ (a_{x1} \ c_{y1} - a_{y1} \ b_{x2}) + 12 \ (a_{x1} \ a_{y2} - a_{x2} \ a_{y1}) \ (a_{x2} \ b_{y1} - a_{y1} \ b_{x2}) + 12 \ (a_{x1} \ a_{y2} - a_{x2} \ a_{y1}) \ (a_{x2} \ b_{y1} - a_{y2} \ b_{x2}) + 12 \ (a_{x2} \ a_{y2} - a_{x2} \ a_{y2}) + 12 \ (a_{x2} \ a_{y2} - a_{x2} \ a_{y2}) + 12 \ (a_{x2} \ a_{y2} - a_{y2} \ a_{y2} - a_{y2} \ a_{y2}) + 12 \ (a_{x2} \ a_{y2} - a_{y2} \ a_{y2}) + 12 \ (a_{x2} \ a_{y2} - a_{y2} \ a_{y2}) + 12 \ (a_{x2} \ a_{y2} - a_{y2} \ a_{y2}) + 12 \ (a_{x2} \ a_{y2} - a_{y2} \ a_{y2}) + 12 \ (a_{x2} \ a_{y2} - a_{y2} \ a_{y2}) + 12 \ (a_{x2} \ a_{y2} - a_{y2} \ a_{y2}) + 12 \ (a_{x2} \ a_{y2} - a_{y2} \ a_{y2}) + 12 \ (a_{x2} \ a_{y2} - a_{y2} \ a_{y2}) + 12 \ (a_{x2} \ a_{y2} - a_{y2} \ a_{y2}) + 12 \ (a_{x2} \ a_{y2} - a_{y2} \ a_{y2}) + 12 \ (a_{x2} \$ $(a_{y1} c_{x1})^2 (c_{x1} d_{y2} - c_{y1} d_{x2})^2 + 12 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (c_{x1} c_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (c_{x1} c_{y2} - a_{y1} c_{y1} c_{y1})^2 (c_{x1} c_{y2} - a_{y1} c_{y1} c_{y1} c_{y1})^2 (c_{x1} c_{y1} c_$ $(c_{x2} c_{y1}) (c_{x1} d_{y2} - c_{y1} d_{x2}) - 4 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) (b_{x1} c_{y1} - a_{y1} c_{x1})^2$ $b_{y1} c_{x1} (c_{x1} d_{y2} - c_{y1} d_{x2}) - 6 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (b_{x1} d_{y2} - a_{y1} d_{x2})^2$ $b_{y1} d_{x2}$)²-20 $(a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (b_{x1} d_{y2} - b_{y1} d_{x2})^2 + 6 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x2})^2$ $(a_{y1} b_{x1})^2 (b_{x1} d_{y2} - b_{y1} d_{x2})^2 (c_{x1} d_{y1} - c_{y1} d_{x1}) - 6 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} d_{y2} - a_{$ $b_{y1}\,d_{x2})^2\,(c_{x1}\,d_{y2}-c_{y1}\,d_{x2})-10\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})^2\,(a_{x1}\,d_{y2}-a_{y1}\,d_{x2})\,(a_{y2}\,c_{x1}-a_{x2}\,c_{y1})\,(b_{x1}\,d_{y2}-a_{y1}\,d_{x2})$ $(b_{y1} d_{x2})^2 - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (b_{x1} d_{y2} - b_{y1} d_{x2})^2 (c_{x1} c_{y2} - c_{x2} c_{y1}) + (c_{x1} c_{y2} - c_{x2} c_{y1})^2 + (c_{x1} c_{y2} - c_{y2} c_{y1} c_{y2} - c_{y2} c_{y2} c_{y1})^2 + (c_{x1} c_{y2} c$ $(6(a_{x1}b_{y1} - a_{y1}b_{x1})^2(a_{y2}c_{x1} - a_{x2}c_{y1})(b_{x1}c_{y1} - b_{y1}c_{x1})(b_{x1}d_{y2} - b_{y1}d_{x2})^2 + 24(a_{x1}b_{y1} - a_{y1}b_{x1})^2$ $(a_{u1} b_{u1}) (a_{u1} c_{u2} - a_{u1} c_{u2})^3 (a_{u1} d_{u1} - a_{u1} d_{u1}) (c_{u1} d_{u1} - c_{u1} d_{u1}) - 24 (a_{u1} a_{u2} - a_{u2} a_{u1}) (a_{u1} b_{u1} - a_{u1} d_{u1}) - 24 (a_{u1} a_{u2} - a_{u2} a_{u1}) (a_{u1} b_{u1} - a_{u1} d_{u1}) - 24 (a_{u1} a_{u2} - a_{u2} a_{u1}) (a_{u1} b_{u1} - a_{u1} d_{u1}) - 24 (a_{u1} a_{u2} - a_{u2} a_{u1}) (a_{u1} b_{u1} - a_{u1} d_{u1}) - 24 (a_{u1} a_{u2} - a_{u2} a_{u1}) (a_{u1} a_{u1} - a_{u1} d_{u1}) - 24 (a_{u1} a_{u2} - a_{u2} a_{u1}) (a_{u1} a_{u1} - a_{u1} a_{u2}) - 24 (a_{u1} a_{u2} - a_{u2} a_{u1}) (a_{u1} a_{u2} - a_{u2} a_{u1}) - 24 (a_{u1} a_{u2} - a_{u2} a_{u1}) (a_{u1} a_{u2} - a_{u2} a_{u1}) - 24 (a_{u1} a_{u2} - a_{u2} a_{u2}) - 24 (a_{u1} a_{u2} - a_{u2} a_{u2} - a_{u2} a_{u2}) - 24 (a_{u1} a_{u2} - a_{u2} a_{u2} - a_{u2} a_{u2}) - 24 (a_{u1} a$ $(a_{y1} b_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1}) (c_{x1} d_{y1} - c_{y1} d_{x1})^2 + 36 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 + 36 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 + 36 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 + 36 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 + 36 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 + 36 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 + 36 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 + 36 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 + 36 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y1} - a_{y1} b_{x1})^2 + 36 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y1} - a_{y1} b_{x1})^2 + 36 (a_{x1} a_{y1} - a_{y1} a_{y1} - a_{y1} a_{y1} a_{y1})^2 + 36 (a_{x1} a_{y1} - a_{y1} a_{y$ $(a_{y1} d_{x1}) (c_{x1} d_{y1} - c_{y1} d_{x1}) (c_{x1} d_{y2} - c_{y1} d_{x2}) + 36 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x2})$ $a_{y1} d_{x1}$) $(c_{x1} c_{y2} - c_{x2} c_{y1}) (c_{x1} d_{y1} - c_{y1} d_{x1}) - 36 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y1} - a_{y1} c_{x1}) (a_{x1$ $a_{y1} d_{x1}) \left(a_{y2} b_{x1} - a_{x2} b_{y1}\right) \left(b_{x1} d_{y1} - b_{y1} d_{x1}\right) \left(b_{x1} d_{y2} - b_{y1} d_{x2}\right) - 36 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right) \left(a_{x1} c_{y1} - a_{y1} b_{x1}\right) \left(a_{x1} c_{y1}$ $a_{y1}\,c_{x1})\,(a_{x1}\,d_{y1}-a_{y1}\,d_{x1})\,(b_{x1}\,b_{y2}-b_{x2}\,b_{y1})\,(b_{x1}\,c_{y2}-b_{y1}\,c_{x2})\,(b_{x1}\,d_{y1}-b_{y1}\,d_{x1})+10\,(a_{x1}\,a_{y2}-b_{y1}\,a_{x1})+10\,(a_{x1}\,a_{y2}-a_{y1}\,a_{y1})+10\,(a_{x1}\,a_{y2}-a_{y1}\,a_{y1})+10\,(a_{x1}\,a_{y1}-a_{y1}\,a_{y1}-a_{y1}\,a_{y1})+10\,(a_{x1}\,a_{y1}-a_{y1}\,a_{y1}-a_{y1}\,a_{y1}-a_{y1}\,a_{y1})+10\,(a_{x1}\,a_{y1}-a_{y1}\,a_{y1}-a_{y1}\,a_{y1}-a_{y1}$ $a_{x2} a_{y1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^4 (b_{x1} c_{y1} - b_{y1} c_{x1}) + 20 (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (b_{x1} c_{y1} - a_{y1} d_{x1})^2 (a_{x1} c_{y1} - a_{$ $(a_{x1} c_{x1}) - 32 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (a_{x1} d_{y1} - a_{y1} d_{x1}) (c_{x1} d_{y2} - c_{y1} d_{x2}) + (c_{x1} d_{y1} c_{y1} d_{y2} - c_{y1} d_{y2}) + (c_{x1} d_{y1} c_{y1} d_{y2} - c_{y1} d_{y2}) + (c_{x1} d_{y1} c_{y1} d_{y1} c_{y1} d_{y2} - c_{y1} d_{y2}) + (c_{x1} d_{y1} c_{y1} d_{y1} c_{y1} d_{y2} - c_{y1} d_{y2}) + (c_{x1} d_{y1} c_{y1} d_{y1} d_{y$ $6\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)^{2}\left(a_{y2}\,c_{x1}-a_{x2}\,c_{y1}\right)\left(c_{x1}\,d_{y2}-c_{y1}\,d_{x2}\right)-54\left(a_{x1}\,a_{y2}-a_{y1}\,d_{x2}\right)$ $(a_{x1} \, d_{y1}) \, (a_{x1} \, b_{y1} - a_{y1} \, b_{x1})^2 \, (a_{x1} \, d_{y1} - a_{y1} \, d_{x1}) \, (c_{x1} \, d_{y2} - c_{y1} \, d_{x2})^2 - 84 \, (a_{x1} \, b_{y1} - a_{y1} \, b_{x1})^2 \, (a_{x1} \, b_{y2} - a_{y1} \, b_{x2})^2 \, (a_{x2} \, b_{y2} - a_{y1} \, b_{x2})^2 + 64 \, (a_{x1} \, b_{y2} - a_{y1} \, b_{x2})^2 \, (a_{x2} \, b_{y2} - a_{y2} \, b_{y2})^2 \, (a_{x2} \, b_{y2}$

 $a_{y1} b_{x2}) \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right) \left(c_{x1} c_{y2} - c_{x2} c_{y1}\right) \left(c_{x1} d_{y2} - c_{y1} d_{x2}\right) + 12 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right)^{2} \left(a_{x1} c_{y1} - a_{y1} b_{x2}\right) \left(a_{x1} c_{y1$ $(a_{u1} c_{x1})^2 (a_{x2} d_{u2} - a_{u2} d_{x2}) (d_{x1} d_{u2} - d_{x2} d_{u1}) + 24 (a_{x1} b_{u1} - a_{u1} b_{x1}) (a_{x1} c_{u2} - a_{u1} c_{x2})^3 (a_{x1} d_{u2} - a_{u2} d_{u2})$ $(a_{y1} d_{x2}) (c_{x1} d_{y2} - c_{y1} d_{x2}) + 24 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (c_{x1} d_{y2} - a_{y1} d_{x2}) (c_{x$ $(c_{y1} d_{x2})^2 - 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x2} d_{y2} - a_{y2} d_{x2}) (c_{x1} d_{y2} - a_{y1} d_{x2})$ $(c_{y1} d_{x2}) + 36 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (c_{x1} c_{y2} - c_{x2} c_{y1}) (c_{x1} d_{y2} - a_{y1} d_{x2})$ $c_{y1} d_{x2}) - 36 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right) \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right) \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right) \left(b_{x1} b_{y2} - b_{x2} b_{y1}\right) \left(b_{x1} c_{y2} - a_{y1} d_{x2}\right) + c_{y1} d_{y2} + c_{y2} d_{y1} d_{y2} + c_{y1} d_{y2} d_{y2} + c_{y2} d_{y2} d_{y2$ $b_{y1} c_{x2}) (b_{x1} d_{y2} - b_{y1} d_{x2}) + 20 (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (b_{x1} c_{y1} - b_{y1} c_{x1}) - b_{y1} c_{x2}$ $4\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(b_{x1}\,b_{y2}-b_{x2}\,b_{y1}\right)\left(b_{x1}\,c_{y1}-b_{y1}\,c_{x1}\right)\left(b_{x1}\,c_{y2}-b_{y1}\,c_{x2}\right)\left(c_{x1}\,d_{y1}-c_{y1}\,d_{x1}\right) (2(a_{x1}b_{y1} - a_{y1}b_{x1})^2(a_{y2}c_{x1} - a_{x2}c_{y1})(b_{x1}c_{y1} - b_{y1}c_{x1})^2(c_{x1}d_{y1} - c_{y1}d_{x1}) + 4(a_{x1}b_{y1} - a_{y1}d_{x1})^2(a_{y2}c_{x1} - a_{x2}c_{y1})(a_{y1}c_{y1} - a_{y1}c_{x1})^2(a_{y1}c_{x1} - a_{y1}d_{x1}) + 4(a_{x1}b_{y1} - a_{y1}d_{x1})^2(a_{y2}c_{x1} - a_{x2}c_{y1})(a_{y1}c_{y1} - a_{y1}c_{x1})^2(a_{y1}c_{x1} - a_{y1}d_{x1}) + 4(a_{x1}b_{y1} - a_{y1}d_{x1})^2(a_{y1}c_{x1} - a_{y1}d_{x1})^2(a_{y1}c_{x1} - a_{y1$ $(a_{u1} \ b_{x1})^2 \ (b_{x1} \ b_{y2} - b_{x2} \ b_{y1}) \ (b_{x1} \ c_{y1} - b_{y1} \ c_{x1}) \ (b_{x1} \ c_{y2} - b_{y1} \ c_{x2}) \ (c_{x1} \ d_{y2} - c_{y1} \ d_{x2}) + 2 \ (a_{x1} \ b_{y1} - b_{y1} \ c_{x2}) + 2 \ (a_{x1} \ b_{y2} - b_{y1} \ c_{x2}) + 2 \ (a_{x2} \ b_{y1} (a_{y1} b_{x1})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) (b_{x1} c_{y1} - b_{y1} c_{x1})^2 (c_{x1} d_{y2} - c_{y1} d_{x2}) - 18 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (a_{y1} d_{y2} - a_{y1} d_{y2})^2 (a_{y1} d_{y2} - a_$ $(a_{y1} d_{x2})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) (c_{x1} d_{y1} - c_{y1} d_{x1}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} c_{x2}) (a_$ $(a_{u1} d_{u2}) (b_{u2} c_{x1} - b_{x2} c_{u1}) (c_{x1} d_{u1} - c_{u1} d_{x1}) + 18 (a_{x1} b_{u1} - a_{u1} b_{x1})^2 (a_{x1} c_{u2} - a_{u1} c_{x2}) (b_{x1} c_{u2} - a_{u1} c_{x2}) (a_{x1} c_{u2} - a_{u1} c_{u2}) (a_{x$ $b_{y1} c_{x2})^2 (c_{x1} d_{y1} - c_{y1} d_{x1}) - 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (c_{x1} c_{y2} - c_{x2} c_{y1}) (c_{x1} d_{y1} - a_{y1} c_{x2})^2 (c_{x1} c_{y2} - c_{x2} c_{y1}) (c_{x1} d_{y1} - a_{y1} c_{x2})^2 (c_{x1} c_{y2} - c_{x2} c_{y1}) (c_{x1} d_{y1} - a_{y1} c_{x2})^2 (c_{x1} c_{y2} - c_{x2} c_{y1}) (c_{x1} d_{y1} - a_{y1} c_{x2})^2 (c_{x1} c_{y2} - c_{x2} c_{y1}) (c_{x1} d_{y1} - a_{y1} c_{x2})^2 (c_{x1} c_{y2} - a_{y1} c_{x2})^2 (c_{x1} c_{y2} - c_{x2} c_{y1}) (c_{x1} d_{y1} - a_{y1} c_{x2})^2 (c_{x1} c_{y2} - c_{x2} c_{y1}) (c_{x1} d_{y1} - a_{y1} c_{x2})^2 (c_{x1} c_{y2} - c_{x2} c_{y1}) (c_{x1} d_{y1} - a_{y1} c_{x2})^2 (c_{x1} c_{y2} - c_{x2} c_{y1}) (c_{x1} d_{y1} - a_{y1} c_{x2})^2 (c_{x1} c_{y2} - c_{x2} c_{y1}) (c_{x1} d_{y1} - a_{y1} c_{x2})^2 (c_{x1} c_{y2} - c_{x2} c_{y1}) (c_{x1} d_{y1} - a_{y1} c_{x2})^2 (c_{x1} c_{y2} - c_{x2} c_{y1}) (c_{x1} d_{y1} - c_{y1} c_{y1} c_{y1}) (c_{x1} d_{y1} - c_{y1} c_{y1} c_{y1}) (c_{x1} d_{y1} - c_{y1} c_{y1} c_{y1} c_{y1} c_{y1}) (c_{x1} d_{y1} - c_{y1} c_{$ $(c_{y1} d_{x1}) + 36 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (c_{x1} c_{y2} - c_{x2} c_{y1}) +$ $6\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)^{2}\left(b_{y2}\,c_{x1}-b_{x2}\,c_{y1}\right)\left(c_{x1}\,c_{y2}-c_{x2}\,c_{y1}\right)-18\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}$ $(a_{u1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (c_{x1} c_{y2} - c_{x2} c_{y1})^2 - 18 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{y2})^2$ $a_{y1} c_{x2}) (b_{x1} c_{y2} - b_{y1} c_{x2})^2 (c_{x1} d_{y2} - c_{y1} d_{x2}) + 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (c_{x1} c_{y2} - a_{y$ $(c_{x2} c_{y1}) (c_{x1} d_{y2} - c_{y1} d_{x2}) + 36 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (c_{x1} c_{y2} - a_{y1} c_{x2})^2$ $(c_{x2} c_{y1}) + 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (b_{y2} c_{x1} - b_{x2} c_{y1}) (c_{x1} c_{y2} - c_{x2} c_{y1}) +$ $18\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(c_{x1}\,c_{y2}-c_{x2}\,c_{y1}\right)^{2}-4\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}$ $(a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{y2} c_{x1} - b_{x2} c_{y1}) (c_{x1} c_{y2} - c_{x2} c_{y1}) + 2 (a_{x1} b_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{$ $(a_{y1} b_{x1})^2 (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{x1} c_{y2} - b_{y1} c_{x2})^2 (c_{x1} c_{y2} - c_{x2} c_{y1}) - 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{y2})^2 (a_{x1} c_{y2} - a_{y1} c_{y2})^2 (a_{y1} c_{y2} - a_{$ $(a_{y1} c_{x2}) (b_{x1} c_{y1} - b_{y1} c_{x1}) (c_{x1} c_{y2} - c_{x2} c_{y1})^2 + 2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} c_{y1} - b_{y1} c_{x1})^2 (b_{y2} c_{x1} - b_{$ $\left(b_{x2}\,c_{y1} \right) \left(c_{x1}\,c_{y2} - c_{x2}\,c_{y1} \right) + 4 \left(a_{x1}\,b_{y1} - a_{y1}\,b_{x1} \right) \left(a_{x1}\,c_{y1} - a_{y1}\,c_{x1} \right)^2 \left(a_{x1}\,c_{y2} - a_{y1}\,c_{x2} \right) \left(c_{x1}\,c_{y2} - a_{y1}\,c_{x2} \right) \left($ $(a_{x2} c_{y1})^2 + 40 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^3 (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} c_{y1} - b_{y1} c_{x1}) +$ $40\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)^{3}\left(b_{x1}\,c_{y1}-b_{y1}\,c_{x1}\right)+2\left(a_{x1}\,c_{y1}-a_{y1}\,d_{x2}\right)^{3}$ $(a_{u1} c_{x1})^3 (a_{x1} c_{y2} - a_{y1} c_{x2}) (b_{x1} c_{y2} - b_{y1} c_{x2}) (c_{x1} c_{y2} - c_{x2} c_{y1}) + 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x2} d_{y2} - a_{y1} c_{y2}) (a_{y2} c_{y1}) + 4 (a_{y1} c_{y2} - a_{y1} c_{y2}) (a_{y2} c_{y1} c_{y2} - a_{y1} c_{y2}) (a_{y2} c_{y2} c_{y1}) + 4 (a_{y1} c_{y2} - a_{y1} c_{y2}) (a_{y2} c_{y2} c_{y1}) + 4 (a_{y2} c_{y2} c_{y1} c_{y2} c_{y2} c_{y1}) + 4 (a_{y2} c_{y1} c_{y2} c_{y2} c_{y1} c_{y2} c_{y2} c_{y2}) (a_{y2} c_{y2} c_{y1} c_{y2} c_{y2} c_{y2} c_{y2} c_{y2} c_{y1}) + 4 (a_{y2} c_{y2} c_$ $(a_{y2} d_{x2}) (b_{x1} c_{y1} - b_{y1} c_{x1})^2 (b_{x1} d_{y2} - b_{y1} d_{x2}) - 6 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (c_{x2} d_{y2} - a_{y1} c_{y2})^2 (c_{x2} d_{y2} - a_{$ $(c_{y2} d_{x2}) - 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{y2} d_{x1} - a_{x2} d_{y1}) (b_{x1} c_{y1} - b_{y1} c_{x1})^2 (b_{x1} d_{y1} - b_{y1} d_{x1}) - b_{y1} d_{x1}$ $6(a_{x1}c_{y1} - a_{y1}c_{x1})^3(a_{x1}c_{y2} - a_{y1}c_{x2})^2(c_{y2}d_{x1} - c_{x2}d_{y1}) - 40(a_{x1}b_{y2} - a_{y1}b_{x2})(a_{x1}c_{y2} - a_{y1}b_{x2})$ $(a_{u1} c_{u2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^3 (b_{x1} c_{y1} - b_{y1} c_{x1}) + 24 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y1} - a_{y1} c_{x1}) (a_{x$ $(a_{y1} d_{x1})^3 (b_{x2} c_{y2} - b_{y2} c_{x2}) - 88 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^3 (c_{x1} c_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^3 (c_{x1} c_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^3 (c_{x1} c_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^3 (c_{x1} c_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^3 (c_{x1} c_{y2} - a_{y1} d_{x1})^3 (a_{x1} d_{y1} - a_{y1} d_{x1$ $(a_{x2} c_{y1}) + 36 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) +$ $72\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)^{2}\left(c_{y2}\,d_{x1}-c_{x2}\,d_{y1}\right) 72\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(d_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x$ $d_{x2} d_{y1}) + 72 \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right) \left(a_{x1} c_{y2} - a_{y1} c_{x2}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right)^{2} \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right) \left(b_{x1} b_{y2} - a_{y1} d_{x2}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right)^{2} \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right) \left(a_{x1} d$ $b_{x2}\,b_{y1}) + 72\,(a_{x1}\,b_{y1} - a_{y1}\,b_{x1})\,(a_{x1}\,b_{y2} - a_{y1}\,b_{x2})\,(a_{x1}\,c_{y1} - a_{y1}\,c_{x1})\,(a_{x1}\,d_{y1} - a_{y1}\,d_{x1})^2\,(c_{x2}\,d_{y2} - a_{y1}\,b_{x2})^2\,(a_{x1}\,d_{y1} - a_{y1}\,d_{x1})^2\,(a_{x1}\,d_{y1} - a_{y1}\,d_{x1})^2\,(a_{x2}\,d_{y2} - a_{y1}\,d_{x2})^2\,(a_{x1}\,d_{y1} - a_{y1}\,d_{x1})^2\,(a_{x2}\,d_{y2} - a_{y1}\,d_{x2})^2\,(a_{x2}\,d_{y2} - a_{y1}\,d_{x2})^2\,(a_{x2}\,d_{y2} - a_{y1}\,d_{x2})^2\,(a_{x2}\,d_{y2} - a_{y1}\,d_{x2})^2\,(a_{x2}\,d_{y2} - a_{y2}\,d_{x2})^2\,(a_{x2}\,d_{y2} - a_{y2}\,d_{y2})^2\,(a_{x2}\,d_{y2} - a_{y2}\,$ $(a_{x1}, b_{y1}, a_{y1}, b_{x1}) + 144 + (a_{x1}, b_{y1}, a_{y1}, b_{x1}) + (a_{x1}, b_{y2}, a_{y1}, b_{x2}) + (a_{x1}, a_{y2}, a_{y1}, a_{x2}) + (a_{x1}, a_{y1}, a_{y1}, a_{y1}, a_{x1}, a_{y2}, a_{y2}, a_{y2}, a_{y2}) + (a_{x1}, a_{y1}, a_{y1}, a_{y1}, a_{y1}, a_{y1}, a_{y1}, a_{y2}, a_{y2}$ $a_{y1} d_{x2}) \left(c_{x1} d_{y1} - c_{y1} d_{x1}\right) + 48 \left(a_{x1} b_{y2} - a_{y1} b_{x2}\right) \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right)^{2} \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right) + 48 \left(a_{x1} b_{y2} - a_{y1} b_{x2}\right) \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right)^{2} \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right) + 48 \left(a_{x1} b_{y2} - a_{y1} b_{x2}\right) \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right)^{2} \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right) + 48 \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right) \left(a_{x1} c_{y1} - a_{y1} d_{x2}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x2}\right)^{2} \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right)^{2} \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right) + 48 \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x2}\right)^{2} \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right)^{2} \left(a_{x1}$ $a_{y1} d_{x2}$) $(b_{x1} c_{y2} - b_{y1} c_{x2}) - 120 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} c_{x1}) (a_{x2} d_{y2} - a_{y1} d_{x2}) (a_{x2} d_{y2} - a_{y2} d_{y2}) (a_{x$

 $(a_{y1} d_{x2})^2 (b_{x1} c_{y2} - b_{y1} c_{x2}) - 6 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (b_{x2} c_{y2} - b_{y2} c_{x2}) - 6 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (b_{x2} c_{y2} - b_{y2} c_{x2}) - 6 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (b_{x2} c_{y2} - b_{y2} c_{x2}) - 6 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (b_{x2} c_{y2} - b_{y2} c_{x2}) - 6 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (b_{x2} c_{y2} - b_{y2} c_{x2}) - 6 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (b_{x2} c_{y2} - b_{y2} c_{x2}) - 6 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (b_{x2} c_{y2} - b_{y2} c_{x2}) - 6 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (b_{x2} c_{y2} - b_{y2} c_{x2}) - 6 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (b_{x2} c_{y2} - b_{y2} c_{x2}) - 6 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (b_{x2} c_{y2} - b_{y2} c_{x2}) - 6 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (b_{x2} c_{y2} - b_{y2} c_{x2}) - 6 (a_{x1} c_{y1} - a_{y1} c_{x2})^3 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (b_{x2} c_{y2} - b_{y2} c_{x2}) - 6 (a_{x1} c_{y1} - a_{y1} c_{x2})^3 (a_{x1} d_{y1} - a_{y1} d_{x2})^2 (a_{x1} d_{x2} - a_{y1} d_{x$ $72\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)^{2}\left(b_{y2}\,d_{x1}-b_{x2}\,d_{y1}\right)+$ $12\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{3}\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)\left(c_{y2}\,d_{x1}-c_{x2}\,d_{y1}\right)-144\left(a_{x1}\,b_{y1}-a_{y1}\,d_{x1}\right)\left(c_{y2}\,d_{x1}-c_{x2}\,d_{y1}\right)-144\left(a_{x1}\,b_{y1}-a_{y1}\,d_{x1}\right)\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)\left(c_{y2}\,d_{x1}-c_{x2}\,d_{y1}\right)-144\left(a_{x1}\,b_{y1}-a_{y1}\,d_{x1}\right)\left(a_{x1}\,d_{x1}-a_{y1}\,d_{x1}\right)\left(a_{x1}\,d_{x1}-a_{y1}\,d_{x1}\right)\left(a_{x1}\,d_$ $(a_{u1} b_{u1}) (a_{u1} b_{u2} - a_{u1} b_{u2}) (a_{u1} c_{u2} - a_{u1} c_{u2}) (a_{u1} d_{u2} - a_{u1} d_{u2})^2 (c_{u1} d_{u1} - c_{u1} d_{u1}) - 12 (a_{u1} c_{u1} - a_{u1} d_{u2})^2$ $(a_{y1} c_{x1})^3 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{y2} d_{x1} - b_{x2} d_{y1}) - 144 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x2} d_{x1} - b_{x2} d_{y1}) - 144 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x2} d_{x2} - a_{y1} d_{x2}$ $(a_{u1} b_{u2}) (a_{x1} c_{u1} - a_{u1} c_{x1}) (a_{x1} d_{u1} - a_{u1} d_{x1}) (a_{x1} d_{u2} - a_{u1} d_{x2}) (c_{x2} d_{u2} - c_{u2} d_{x2}) + 12 (a_{x1} b_{u2} - a_{u1} d_{x2}) (a_{x2} d_{u2} - a_{u2} d_{x2}) + 12 (a_{x1} b_{u2} - a_{u1} d_{x2}) (a_{x2} d_{u2} - a_{u2} d_{x2}) + 12 (a_{x1} d_{u2} - a_{u2} d_{x2}) + 12 (a_{x2} d_{u2} - a$ $(a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} d_{y1} - a_{y1} d_{x1}) (c_{x2} d_{y2} - c_{y2} d_{x2}) - 12 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} c_{y1} - a_{y1} d_{x1}) (a_{y1} c_{y1} - a_{y1} d_{y1}) (a_{y$ $a_{y1} c_{x1})^3 \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right) \left(d_{x1} d_{y2} - d_{x2} d_{y1}\right) + 12 \left(a_{x1} b_{y2} - a_{y1} b_{x2}\right) \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right)^3 \left(a_{x1} c_{y2} - a_{y1} b_{x2}\right) \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right)^3 \left(a_{x1} c_{y2} - a_{y1} b_{x2}\right) \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right)^3 \left(a_{x1} c_{y2} - a_{y1} b_{x2}\right) \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right)^3 \left(a_{x1} c_{y2} - a_{y1} b_{x2}\right) \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right)^3 \left(a_{x1} c_{y2} - a_{y1} c_{x1}\right)^3 \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right)^3 \left(a_{x1} c_{y2} - a_{y1} c_{x1}\right)^3 \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right)^3 \left(a_{x1} c_{y2} - a_{y1} c_{x1}\right)^3 \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right)^3 \left(a_{x1} c_{y2} - a_{y1} c_{x2}\right)^3 \left(a_{x1} c_{y2} - a_{y1} c_{x1}\right)^3 \left(a_{x1} c_{y2} - a_{y1} c_{x2}\right)^3 \left(a_{x1} c_{y2} - a_{y2} c_{x2}\right)^3 \left(a_{x1} c_{y2} - a_$ $(a_{y1} c_{x2}) (d_{x1} d_{y2} - d_{x2} d_{y1}) + 18 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (c_{x1} d_{y2} - a_{y1} d_{x1})^2 (c_{x1} d_{y1} - a_{y1} d_{x1})^2 (c_{x1} d_{y2} - a_{y1} d_{x1})^2 (c_{x1} d_{y1} - a_{y1} d_{x1})^2 (c_{x1} d_{y2} - a_{y1} d_{x1})^2 (c_{x1} d_{y1} - a_{y$ $(c_{y1} d_{x2}) - 36 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (c_{x1} d_{y2} - a_{y1} c_{x2}) (a_{x2} d_{y1} - a_{y1} d_{x2}) (a_{x2} d_{y2} - a_{y2} d_{x2}) (a_{x$ $(c_{y1} d_{x2}) - 12 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} d_{y2} - a_{y1} d_{x2}) (d_{x1} d_{y2} - d_{x2} d_{y1}) - (d_{x1} d_{y2} - d_{x$ $6\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{3}\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)^{2}\left(b_{x2}\,c_{y2}-b_{y2}\,c_{x2}\right)-18\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{2}$ $(a_{u1} c_{x1})^2 (a_{x1} d_{u2} - a_{u1} d_{x2})^2 (c_{x1} d_{u1} - c_{u1} d_{x1}) - 12 (a_{x1} b_{u2} - a_{u1} b_{x2}) (a_{x1} c_{u1} - a_{u1} c_{x1})^3 (a_{x1} d_{u2} - a_{u1} d_{x2})^3 (a_{x1} d_{u2} - a_$ $(a_{y1} d_{x2}) (c_{x2} d_{y2} - c_{y2} d_{x2}) + 40 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2})^3 (b_{x1} c_{y2} - a_{y1}$ $(b_{y1} c_{x2}) - 24 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1}) +$ $24\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)^{3}\left(b_{y2}\,c_{x1}-b_{x2}\,c_{y1}\right)+24\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x2}\right)^{3}$ $(a_{u1} b_{u1}) (a_{u1} c_{u2} - a_{u1} c_{u2})^3 (a_{u1} d_{u1} - a_{u1} d_{u1}) (c_{u1} d_{u2} - c_{u1} d_{u2}) + 24 (a_{u1} b_{u1} - a_{u1} b_{u1}) (a_{u1} b_{u2} - a_{u1} c_{u2})^3 (a_{u1} d_{u1} - a_{u1} d_{u1}) (a_{u1} d_{u2} - a_{u1} d_{u2}) + 24 (a_{u1} b_{u1} - a_{u1} b_{u1}) (a_{u1} d_{u2} - a_{u1} d_{u2}) + 24 (a_{u1} d_{u1} - a_{u1} d_{u1}) (a_{u1} d_{u2} - a_{u1} d_{u2}) + 24 (a_{u1} d_{u1} - a_{u1} d_{u1}) (a_{u1} d_{u2} - a_{u1} d_{u2}) + 24 (a_{u1} d_{u1} - a_{u1} d_{u1}) (a_{u1} d_{u2} - a_{u1} d_{u2}) + 24 (a_{u1} d_{u1} - a_{u1} d_{u1}) (a_{u1} d_{u2} - a_{u1} d_{u2}) + 24 (a_{u1} d_{u1} - a_{u1} d_{u1}) (a_{u1} d_{u2} - a_{u1} d_{u2}) + 24 (a_{u1} d_{u1} - a_{u1} d_{u1}) (a_{u1} d_{u2} - a_{u1} d_{u2}) + 24 (a_{u1} d_{u1} - a_{u1} d_{u1}) (a_{u1} d_{u2} - a_{u1} d_{u2}) + 24 (a_{u1} d_{u1} - a_{u1} d_{u1}) (a_{u1} d_{u2} - a_{u1} d_{u2}) + 24 (a_{u1} d_{u1} - a_{u1} d_{u1}) (a_{u1} d_{u2} - a_{u1} d_{u2}) + 24 (a_{u1} d_{u1} - a_{u1} d_{u1}) (a_{u1} d_{u2} - a_{u1} d_{u2}) + 24 (a_{u1} d_{u1} - a_{u1} d_{u1}) (a_{u1} d_{u2} - a_{u1} d_{u2}) + 24 (a_{u1} d_{u1} - a_{u1} d_{u2}) + 24 (a_{u1} d_{u1} - a_{u1} d_{u1}) (a_{u1} d_{u2} - a_{u1} d_{u2}) + 24 (a_{u1} d_{u1} - a_{u1} d_{u2}) + 24 (a_{u1} d_{u1} - a_{u1} d_{u2}) + 24 (a_{u1} d_{u2} - a_{u1} d_{u2}) + 24 (a_{u1} d_{u1} - a_{u1} d_{u2}) + 24 (a_{u1} d_{u2} - a_{u1} d_{u2}) + 24 (a_{u$ $(a_{x1} b_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^3 (c_{x1} c_{y2} - c_{x2} c_{y1}) - 72 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x1} d_{y1} - a_{y1} b_{x2})^2 (a_{x1} d_{y1} - a_{y1} b_{x2})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (a_{x1} d_{y1} - a_{y$ $a_{y1} d_{x1}$) $(a_{x1} d_{y2} - a_{y1} d_{x2}) (c_{x1} c_{y2} - c_{x2} c_{y1}) + 72 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} b_{x2}) (a_{x2} c_{y1} - a_{y2} c_{y2}) (a_{x2} c_{y2} - a_{y2} c_{y2}) (a_{x2$ $(a_{x1} c_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (c_{x2} d_{y2} - c_{y2} d_{x2}) - 16 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (a_{x1} d_{y1} - a_{y1} c_{x2})^3 (a_{x1} d_{y2} - a_{y1} c_{x2})^3 (a_{x2} d_{y2} - a_{y2} d_{x2}) - 16 (a_{x1} c_{y1} - a_{y1} c_{x2}) (a_{x2} d_{y2} - a_{y1} c_{x2})^3 (a_{x2} d_{y2} - a_{y2} d_{x2}) - 16 (a_{x2} d_{y2} - a_{y1} d_{x2}) (a_{x2} d_{y2} - a_{y2} d_{x2}) - 16 (a_{x2} d_{y2} - a_{y1} d_{x2}) (a_{x2} d_{y2} - a_{y2} d_{x2}) - 16 (a_{x2} d_{y2} - a_{y2} d_{x2}) (a_{x2} d_{y2} - a_{y2} d_{x2}) - 16 (a_{x2} d_{y2} - a_{y2} d_{x2}) (a_{x2} d_{y2} - a_{y2} d_{x2}) - 16 (a_{x2} d_{y2} - a_{y2} d_{x2}) (a_{x2} d_{y2} - a_{y2} d_{x2}) (a_{x2} d_{y2} - a_{y2} d_{x2}) - 16 (a_{x2} d_{y2} - a_{y2} d_{x2}) (a_{x2} d_{y2} - a_{y2} d_{x2}) (a_{x2} d_{y2} - a_{y2} d_{x2}) - 16 (a_{x2} d_{y2} - a_{y2} d_{x2}) - 16 (a_{x2} d_{y2} - a_{y2} d_{x2}) (a_{x2} d_{y2}$ $a_{y1}\,d_{x1})\,(b_{x1}\,d_{y2}-b_{y1}\,d_{x2})-4\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})^2\,(b_{x1}\,c_{y1}-b_{y1}\,c_{x1})^2\,(b_{x1}\,d_{y1}-b_{y1}\,d_{x1})\,(b_{x2}\,c_{y2}-b_{y1}\,d_{x2})^2$ $b_{y2} c_{x2}$) + 8 $(a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^3 (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1})$ - $8\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(b_{x1}\,c_{y1}-b_{y1}\,c_{x1}\right)\left(b_{x1}\,c_{y2}-b_{y1}\,c_{x2}\right)\left(b_{x1}\,d_{y1}-b_{y1}\,d_{x1}\right)\left(b_{y2}\,c_{x1}-b_{x2}\,c_{y1}\right) 32\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)^{3}\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(a_{y2}\,c_{x1}-a_{x2}\,c_{y1}\right)-4\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{3}$ $(a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} c_{y1} - b_{y1} c_{x1})^2 (d_{x1} d_{y2} - d_{x2} d_{y1}) - 72 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} c_{y1} - a_{y2} a_{y1}) (a_{y1} c_{y1} - a_{y2} a_{y2} a_{y1}) (a_{y1} c_{y1} - a_{y2} a_{y2} a_{y1}) (a_{y1} c_{y1} - a_{y$ $(a_{y1} c_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1}) - 8 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{y1$ $a_{x2}\,b_{y1})\,(b_{x1}\,c_{y1}-b_{y1}\,c_{x1})\,(b_{x1}\,d_{y2}-b_{y1}\,d_{x2})\,(c_{x1}\,d_{y1}-c_{y1}\,d_{x1}) + 24\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})\,(a_{x1}\,c_{y1}$ $(a_{u1} c_{x1}) (a_{x1} d_{u2} - a_{u1} d_{x2})^3 (a_{u2} d_{x1} - a_{x2} d_{u1}) + 4 (a_{x1} b_{u1} - a_{u1} b_{x1})^2 (b_{x1} c_{u1} - b_{u1} c_{x1})^2 (b_{x1} d_{u2} - a_{u1} d_{u2})^2$ $b_{y1}\,d_{x2})\,(b_{x2}\,c_{y2}-b_{y2}\,c_{x2})-40\,(a_{x1}\,a_{y2}-a_{x2}\,a_{y1})\,(a_{x1}\,d_{y1}-a_{y1}\,d_{x1})\,(a_{x1}\,d_{y2}-a_{y1}\,d_{x2})^3\,(b_{x1}\,c_{y1}-a_{y1}\,d_{x2})^3\,(a_{x1}\,d_{y2}-a_{y1}\,d_{x2})^3\,(a_{x1}\,d_{y2}-a_{y1}\,d_{x2})^3\,(a_{x1}\,d_{y1}-a_{y1}\,d_{x2})^3\,(a_{x1}\,d_{y2}-a_{y1}\,d_{x2})^3\,(a_{x1}\,d_{y2}-a_{y1}\,d_{x2})^3\,(a_{x1}\,d_{y1}-a_{y1}\,d_{x2})^3\,(a_{x1}\,d_{y2}-a_{y1}\,d_{x2})^3\,(a_{x1}\,d_{y2}-a_{y1}\,d_{x2})^3\,(a_{x1}\,d_{y1}-a_{y1}\,d_{x2})^3\,(a_{x1}\,d_{y1}-a_{y1}\,d_{x2})^3\,(a_{x1}\,d_{y2}-a_{y1}\,d_{x2})^3\,(a_{x1}\,d_{y1}-a_{y1}\,d_{x2})^3\,(a_{x1}\,d_{x2}-a_{y1}\,d_{x2})^3\,(a_{x1}\,d_{x2}-a_{y1}\,d_{x2})^3\,(a_{x1}\,d_{x2}-a_{y1}\,d_{x2})^3\,(a_{x1}\,d_{x2}-a_{y1}\,d_{x2})^3\,(a_{x1}\,d_{x2}-a_{y1}\,d_{x2})^3\,(a_{x1}\,d_{x2}-a_{y1}\,d_{x2})^3\,(a_{x1}\,d_{x2}-a_{x2}\,d_{x2})^3\,(a_{x1}\,d_{x2}-a_{x2}\,d_{x2})^3\,(a_{x1}\,d_{x2}-a_{x2}\,d_{x2})^3\,(a_{x1}\,d_{x2}-a$ $b_{y1}\,c_{x1}) + 8\,(a_{x1}\,b_{y1} - a_{y1}\,b_{x1})^2\,(b_{x1}\,c_{y1} - b_{y1}\,c_{x1})\,(b_{x1}\,c_{y2} - b_{y1}\,c_{x2})\,(b_{x1}\,d_{y2} - b_{y1}\,d_{x2})\,(b_{y2}\,c_{x1} - b_{y1}\,d_{x2})\,(b_{y2}\,c_{y1} - b_{y1}\,d_{y2})\,(b_{y2}\,c_{y1} - b_{y1}\,d_{y2})\,(b_{y2}$ $(b_{x2} c_{y1}) + 8 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{y2} d_{x1} - a_{x2} d_{y1}) (b_{x1} d_{y1} - b_{y1} d_{x1}) (c_{x1} d_{y1} - c_{y1} d_{x1}) +$ $8\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)\left(b_{x1}\,d_{y1}-b_{y1}\,d_{x1}\right)^{3}-8\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{3}$ $(a_{y1} b_{x1})^3 (b_{x1} c_{y2} - b_{y1} c_{x2}) (c_{x1} c_{y2} - c_{x2} c_{y1}) (c_{y2} d_{x1} - c_{x2} d_{y1}) + 8 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} b_{x1}) (a_{x1$ $(a_{u1} c_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (b_{x1} c_{y2} - b_{y1} c_{x2})^3 + 8 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x2} d_{y2} - a_{y2} d_{x2}) (b_{x1} d_{y2} - a_{y2} d_{x2}) (b_{x1} d_{y2} - a_{y2} d_{x2}) (a_{x2} d_{y2} - a_{y2} d_{x2}) (a_{$ $b_{y1} d_{x2}$) $(c_{x1} d_{y2} - c_{y1} d_{x2}) - 8 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (b_{x1} d_{y2} - a_{y1} c_{x1}) (a_{y1} c_{y1} - a_{y1} c_{y1}) (a_{y1}$ $(b_{y1} d_{x2})^3 - 8(a_{x1} b_{y1} - a_{y1} b_{x1})^3 (b_{x1} c_{y2} - b_{y1} c_{x2}) (c_{x1} c_{y2} - c_{x2} c_{y1}) (c_{x2} d_{y2} - c_{y2} d_{x2}) - c_{y2} d_{x2}$ $8(a_{x1}b_{y1} - a_{y1}b_{x1})(a_{x1}c_{y1} - a_{y1}c_{x1})(a_{x1}d_{y2} - a_{y1}d_{x2})(b_{x1}c_{y2} - b_{y1}c_{x2})^3 + 6(a_{x1}c_{y1} - a_{y1}c_{x2})^3 + 6(a_{x1}c_{y1} - a_{y1}c_{x2})^3$ $a_{y1} c_{x1})^4 \left(a_{y2} d_{x1} - a_{x2} d_{y1}\right) \left(b_{x1} d_{y1} - b_{y1} d_{x1}\right) + 6 \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right)^3 \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right) \left(a_{y2} b_{x1} - a_{y1} d_{x1}\right) \left(a_{y2} d_{x1} - a_{y1} d_{x1}\right) \left(a_{y2} d_{x1}$ $a_{x2}\,b_{y1})\,(c_{x1}\,d_{y1}\,-\,c_{y1}\,d_{x1})\,-\,4\,(a_{x1}\,c_{y1}\,-\,a_{y1}\,c_{x1})^4\,(a_{x2}\,d_{y2}\,-\,a_{y2}\,d_{x2})\,(b_{x1}\,d_{y1}\,-\,b_{y1}\,d_{x1})\,-\,$ $4\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{3}\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)\left(a_{y2}\,d_{x1}-a_{x2}\,d_{y1}\right)\left(b_{x1}\,c_{y1}-b_{y1}\,c_{x1}\right)+16\left(a_{x1}\,b_{y1}-a_{y1}\,c_{x1}\right)$ $(a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x2} d_{y2} - a_{y2} d_{x2}) (c_{x1} d_{y1} - c_{y1} d_{x1}) - 4 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{y2} b_{x1} - a_{y1$

 $a_{x2}\,b_{y1})\,(b_{x1}\,d_{y1}-b_{y1}\,d_{x1})^2+4\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})^3\,(a_{x1}\,d_{y2}-a_{y1}\,d_{x2})\,(a_{y2}\,d_{x1}-a_{x2}\,d_{y1})\,(b_{x1}\,c_{y1}-a_{y1}\,c_{x1})^3+a_{x2}\,d_{y1}\,d_{x2}$ $b_{y1} c_{x1}$)+10 $(a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{y2} c_{x1} - a_{x2} c_{y1}) (c_{x1} d_{y1} - c_{y1} d_{x1})^2 - 12 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} d_{y1} - a_{y1} c_{x1})^3 (a_{y1} c_{y1} - a_{y1} c_{y1})^3 (a_{y1} c_{y1} - a_{y1} c_{y1} c_{y1})^3 (a_{y1} c_{y1} - a_{y1} c_{y1} c_{y1} c_{y1})^3 (a_{y1} c_{y1} - a_{y1} c_{y1} c_{$ $(a_{y1} d_{x1}) (a_{y2} c_{x1} - a_{x2} c_{y1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) + 6 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^{2} (b_{x1} c_{y1} - a_{y1} c_{x1})^{2} (b_{x1} c_{y1} - a_{y1} c_{x1})^{2} (a_{x1} c_{y1} - a_{$ $b_{y1} c_{x1} (b_{x1} d_{y1} - b_{y1} d_{x1})^2 - 12 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (c_{x1} d_{y1} - a_{y1} c_{x1})^2 (c_{x1} d_{y1} - a_{y1} c_{x1})^2 + 12 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 + 12 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 + 12 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y1} - a_{y1} b_{x1}) (a_{x1} a_{y1} - a_{y1} a_{y1})^2 + 12 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{y1})^2 + 12 (a_{x1} a_{y1} - a_{y1} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{y1} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{y1}$ $c_{y1} d_{x1}) (c_{x1} d_{y2} - c_{y1} d_{x2}) - 2 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (b_{x1} c_{y1} - b_{y1} c_{x1})^3 - a_{y1} d_{x1} d_{y1} - a_{y1} d_{x2}) - 2 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (b_{x1} c_{y1} - b_{y1} c_{x1})^3 - a_{y1} d_{x1} d_{y2} - a_{y1} d_{x2}) - 2 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (b_{x1} c_{y1} - b_{y1} c_{x1})^3 - a_{y1} d_{x1} d_{x1}$ $4\left(a_{x1}\,c_{v1}-a_{v1}\,c_{x1}\right)^{4}\left(b_{x1}\,d_{v1}-b_{v1}\,d_{x1}\right)\left(b_{x2}\,c_{v2}-b_{v2}\,c_{x2}\right)-16\left(a_{x1}\,b_{v1}-a_{v1}\,b_{x1}\right)\left(a_{x1}\,d_{v2}-a_{v1}\,d_{x1}\right)$ $(a_{y1} d_{x2})^3 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) + 16 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (b_{x2} c_{y2} - a_{y1} c_{x2})^3 (b_{x2} c_{y2} - a_{y2} c_{x2})^3 (b_{x2} c_{y2} - a_{y2} c_{x2})^3 (b_{x2} c_{x2} - a_{y$ $b_{y2} c_{x2} (c_{x1} d_{y1} - c_{y1} d_{x1}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x2} d_{y2} - a_{y1} d_{x2})^2 (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x2} d_{y2} - a_{y1} d_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x2})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (a_{x1} d_{y1} - a_{y1} d$ $(b_{y2} d_{x2}) - 12 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} d_{y1} - a_{y1} d_{x1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{y2} c_{x1} - b_{x2} c_{y1}) - (b_{y2} c_{x1} - b_{x2} c_{y1}) - (b_{y2} c_{x1} - b_{x2} c_{y1}) - (b_{y2} c_{x1} - b_{y2} c_{y1}) - (b_{y2} c_{y1} - b_{y2} c_{y1}) - (b_{y2} c_{y1} - b_{y2} c_{y2}) - (b_{y2} c_{y1} - b_{y2} c_{y2}) - (b_{y2} c_{y1} - b_{y2} c_{y2}) - (b_{y2} c_{y2} - b_{y$ $12\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)^{2}\left(b_{x1}\,b_{y2}-b_{x2}\,b_{y1}\right)\left(c_{x2}\,d_{y2}-c_{y2}\,d_{x2}\right)+4\left(a_{x1}\,c_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)^{2}$ $(a_{x1} c_{x1})^3 (a_{x1} c_{y2} - a_{y1} c_{x2}) (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{y2} d_{x1} - b_{x2} d_{y1}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} c_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x$ $(a_{x1} b_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} d_{y2} - b_{y1} d_{x2})^2 - 12 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^2 - 12 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^2 - 12 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^2 - 12 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} b_{y2} (a_{u1} b_{u2}) (a_{x1} c_{u1} - a_{u1} c_{x1})^2 (c_{x1} c_{u2} - c_{x2} c_{u1}) (c_{x1} d_{u1} - c_{u1} d_{x1}) - 24 (a_{x1} b_{u1} - a_{u1} b_{x1})^2 (a_{x1} d_{u2} - a_{u1} d_{x1})^2 (a_{x1} d_{u2} - a_{u1} d_{u2})^2 (a_{x1} d_{u2} - a_{u2} d_{u2})^2 (a_{x1} d_{u2} - a_{u$ $(a_{y1} d_{x2})^2 (a_{y2} d_{x1} - a_{x2} d_{y1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) - 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x1} c_{y2} - a_{y1} c_{x2}) (c_{y2} d_{x1} - a_{y2} d_{x2})$ $(a_{x2} d_{y1})^2 + 4 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2})^3 (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} d_{y1} - b_{y1} d_{x1}) - a_{y1} d_{y1} d_{y1} d_{y1} - a_{y1} d_{y1} d_{y1$ $24\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)^{2}\left(b_{x1}\,d_{y1}-b_{y1}\,d_{x1}\right)\left(c_{y2}\,d_{x1}-c_{x2}\,d_{y1}\right)+12\left(a_{x1}\,a_{y2}-a_{y1}\,c_{x2}\right)^{2}\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)\left(a_{x1}\,a_{y2}-a_{y1}\,a_{x1}\right)^{2}$ $(a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} d_{y2} - b_{y1} d_{x2}) (d_{x1} d_{y2} - d_{x2} d_{y1}) + 16 (a_{x1} b_{y1} - a_{y1} d_{y2}) (a_{y1} d_{y2} - a_{y1} d_{y2}) (a_{y$ $(a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (b_{x1} d_{y1} - b_{y1} d_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) + 16 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} b_{x1}) (a_{x$ $(a_{u1} d_{x1})^3 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) + 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (b_{x1} d_{y2} - a_{y1} c_{x2})^2 (b_{y1} d_{y2} - a_{y1} c_{y2})^2 (b_{y1} d_{y2} - a_$ $b_{y1}\,d_{x2})\,(c_{y2}\,d_{x1}-c_{x2}\,d_{y1})-12\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})^2\,(a_{x1}\,d_{y1}-a_{y1}\,d_{x1})^2\,(b_{x1}\,b_{y2}-b_{x2}\,b_{y1})\,(c_{y2}\,d_{x1}-a_{y1}\,d_{x2})^2$ $c_{x2} d_{y1}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (b_{x1} d_{y1} - b_{y1} d_{x1}) (c_{x2} d_{y2} - c_{y2} d_{x2}) 12\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)^{2}\left(b_{x1}\,c_{y2}-b_{y1}\,c_{x2}\right)\left(b_{y2}\,d_{x1}-b_{x2}\,d_{y1}\right)+12\left(a_{x1}\,b_{y1}-a_{y1}\,d_{x1}\right)^{2}\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)^{2}$ $(a_{x1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} c_{y2} - b_{y1} c_{x2})^{2} + 12 (a_{x1} b_{y1} - a_{y1} d_{x2}) (a_{x2} b_{y1} - a_{y1} d_{x2}) (a_{x2} b_{y1} - a_{y1} d_{x2}) (a_{x2} b_{y1} - a_{y1} d_{x2})^{2} + 12 (a_{x2} b_{y1} - a_{y1} d_{x2}) (a_{x2} b_{y2} - a_{y2} d_$ $(a_{x1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (b_{x1} d_{y1} - b_{y1} d_{x1})^{2} - 4 (a_{x1} c_{y1} - a_{y1} d_{x1})^{2}$ $(a_{y1} c_{x1})^3 (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} d_{y2} - b_{y1} d_{x2})^2 + 16 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^3 (a_{y2} b_{x1} - a_$ $(a_{x2} b_{y1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) + 6 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{x1} d_{y2} - a_{y2} a_{y1}) (a_{y1} c_{y1} - a_{y1} c_{y1})^2 (b_{y1} c_{y1} - b_{y1} c_{y1}) (b_{y1} d_{y2} - a_{y2} a_{y1}) (a_{y1} c_{y1} - a_{y1} c_{y1})^2 (b_{y1} c_{y1} - b_{y1} c_{y1}) (b_{y1} d_{y2} - a_{y2} a_{y1}) (a_{y1} c_{y1} - a_{y1} c_{y1})^2 (b_{y1} c_{y1} - a_{y1} c_{y1}) (a_{y1} c_{y1} - a_{y1} c_{y1})^2 (a_{y1} c_{y1} - a_{y1} c_{y1} c_{y1})^2 (a_{y1} c_{y1} - a_{y1} c_{y1} c_{y1} c_{y1})^2 (a_{y1} c_{y1} - a_{y1} c_{y1} c_{y1} c_{y1} c_{y1})^2 (a_{y1} c_{y1} - a_{y1} c_{y1} c_{y$ $(b_{y1} d_{x2})^2 - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{y2} d_{x1} - a_{x2} d_{y1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) - b_{y1} d_{x2}$ $2\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)^{2}\left(b_{x1}\,c_{y1}-b_{y1}\,c_{x1}\right)^{3}-12\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,d_{y1}-a_{y1}\,b_{x1}\right)^{2}$ $(a_{u1} d_{x1})^2 (a_{u2} b_{x1} - a_{x2} b_{u1}) (d_{x1} d_{u2} - d_{x2} d_{u1}) + 10 (a_{x1} b_{u1} - a_{u1} b_{x1})^3 (a_{u2} c_{x1} - a_{x2} c_{u1}) (c_{x1} d_{u2} - a_{u2} d_{u2}) + 10 (a_{x1} b_{u1} - a_{u1} b_{u1})^3 (a_{u2} c_{x1} - a_{u2} c_{u1}) (a_{u1} d_{u2} - a_{u2} d_{u2}) + 10 (a_{u1} d_{u2} - a_{u1} d_{u2})^3 (a_{u2} c_{x1} - a_{u2} d_{u2}) + 10 (a_{u1} d_{u2} - a_{u2} d_{u2}) + 10 (a_{u2} d_{u2} - a_{u2} d_{u2}) + 10 (a_{u1} d_{u2} - a_{u2} d_{u2}) + 10 (a_{u2} d_{u2}$ $(a_{x1} d_{x2})^2 + 12 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} d_{y1} - a_{y1} d_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x2}) (a_{x$ $(b_{y1} d_{x1})^2 - 2 (a_{x1} c_{y1} - a_{y1} c_{x1})^4 (a_{x2} d_{y2} - a_{y2} d_{x2}) (b_{x1} d_{y2} - b_{y1} d_{x2}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x1} d_{y1} - a_{y1} b_{x1})^3 (a_{y1} d_{y2} - a_{y1} d_{y2}) - 12 ($ $(a_{u1} d_{u1}) (a_{u2} d_{u2} - a_{u2} d_{u2}) (d_{u1} d_{u2} - d_{u2} d_{u1}) - 4 (a_{u1} b_{u1} - a_{u1} b_{u1}) (a_{u1} c_{u1} - a_{u1} c_{u1})^3 (a_{u2} d_{u2} - a_{u2} d_{u2})$ $a_{y2} d_{x2}$) $(c_{x1} d_{y2} - c_{y1} d_{x2}) + 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x2} d_{y2} - a_{y2} d_{x2}) (b_{x1} d_{y2} - a_{y2} d_{x2})$ $(b_{y1} d_{x2}) + 6 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (c_{x1} d_{y2} - c_{y1} d_{x2}) - (c_{y1} d_{y2} - c_{y1} d_{y2}) - (c_{y1} d_{y2} - c_{y1$ $6\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)^{2}\left(b_{x1}\,d_{y1}-b_{y1}\,d_{x1}\right)^{2}+4\left(a_{x1}\,c_{y1}-a_{y1}\,d_{x2}\right)^{2}$ $(a_{y1} c_{x1})^4 (b_{x1} d_{y2} - b_{y1} d_{x2}) (b_{x2} c_{y2} - b_{y2} c_{x2}) - 36 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} b_{x2}) (a_{y1} c_{y2} - a_{y2} a_{y2}) - 36 (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y1} a_{y2} - a_{y1} a_{y2} - a_{y1} a_{y2} - a_{y2} a_{y1})$ $a_{y1} d_{x1}$) $(a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) - 16 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} b_{x1}) (a_{x1$ $(a_{y1} c_{x1})^3 (b_{x2} c_{y2} - b_{y2} c_{x2}) (c_{x1} d_{y2} - c_{y1} d_{x2}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x1} c_{y2} - a_{y1} c_{x2}) (b_{y2} d_{x1} - a_{y1} c_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x2} c_{y2} - a_{y1} c_{x2}) (a_$ $(b_{x2} d_{y1}) (d_{x1} d_{y2} - d_{x2} d_{y1}) + 12 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{y2} c_{x1} - a_{y1} c_{x2}) (a_{y1} c_{y2} - a_{y1} c_{y2}) (a_{y2} c_{y1} - a_{y1} c_{y2}) (a_{y2} c_{y2} - a_{y2} c_{y2}) (a_{y$ $(b_{x2} c_{y1}) - 36 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x1} d_{y1} - a_{y1} d_{x1}) (b_{x2} d_{y2} - b_{y2} d_{x2}) (c_{y2} d_{x1} - c_{x2} d_{y1}) +$ $4\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{3}\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)\left(b_{x1}\,c_{y1}-b_{y1}\,c_{x1}\right)\left(b_{x2}\,d_{y2}-b_{y2}\,d_{x2}\right)+24\left(a_{x1}\,b_{y1}-a_{y1}\,c_{x2}\right)\left(b_{x2}\,d_{y2}-b_{y2}\,d_{x2}\right)$

 $(a_{x1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) (d_{x1} d_{y2} - d_{x2} d_{y1}) + 12 (a_{x1} b_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x2}) (a_{x$ $a_{y1}\,b_{x1})\,(a_{x1}\,b_{y2}-a_{y1}\,b_{x2})\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})^2\,(c_{x1}\,c_{y2}-c_{x2}\,c_{y1})\,(c_{x1}\,d_{y2}-c_{y1}\,d_{x2})-12\,(a_{x1}\,b_{y1}-a_{y1}\,c_{x1})^2$ $(a_{x1} b_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) - 6 (a_{x1} b_{y1} - b_{y2} b_{y1}) (a_{y1} c_{y2} - b_{y1} c_{y2}) - 6 (a_{y1} b_{y1} - b_{y2} b_{y1}) (a_{y1} c_{y2} - b_{y1} c_{y2}) - 6 (a_{y1} b_{y1} - b_{y2} b_{y1}) (a_{y1} c_{y2} - b_{y1} c_{y2}) - 6 (a_{y1} c_{y2} - b_{y1} c_{y2}) -$ $(a_{y1} b_{x1})^3 (a_{x1} c_{y2} - a_{y1} c_{x2}) (c_{x2} d_{y2} - c_{y2} d_{x2})^2 - 72 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} b_{x2}) (a_{x2} c_{y2} - a_{y1} c_{x2}) (a_{x2} c_{y2} - a_{y2} c_{x2})^2 - 72 (a_{x2} c_{y2} - a_{y1} c_{x2}) (a_{x2} c_{y2} - a_{y1} c_{x2}) (a_{x2} c_{y2} - a_{y2} c_{x2}) (a_{x2} c_{y2} - a_{y1} c_{x2}) (a_{x2} c_{y2} - a_{y2} c_{y2}) (a_{x2} c_{y2} - a_{y2} c_{y$ $(a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (b_{x1} d_{y1} - b_{y1} d_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) + 24 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1}$ $(a_{u1} c_{x2})^2 (b_{x1} d_{u2} - b_{u1} d_{x2}) (c_{x2} d_{u2} - c_{u2} d_{x2}) + 24 (a_{x1} b_{u1} - a_{u1} b_{x1})^3 (a_{x1} d_{u2} - a_{u1} d_{x2}) (b_{x2} d_{u2} - a_{u2} d_{x2}) + 24 (a_{x1} b_{u1} - a_{u1} b_{x1})^3 (a_{x1} d_{u2} - a_{u1} d_{x2}) (b_{x2} d_{u2} - a_{u2} d_{x2}) + 24 (a_{x1} b_{u1} - a_{u1} b_{x1})^3 (a_{x1} d_{u2} - a_{u1} d_{x2}) (b_{x2} d_{u2} - a_{u2} d_{x2}) + 24 (a_{x2} b_{u1} - a_{u1} b_{x1})^3 (a_{x2} d_{u2} - a_{u1} d_{x2}) (b_{x2} d_{u2} - a_{u2} d_{x2}) + 24 (a_{x2} b_{u1} - a_{u1} b_{x1})^3 (a_{x2} d_{u2} - a_{u1} d_{x2}) (b_{x2} d_{u2} - a_{u2} d_{x2}) + 24 (a_{x2} b_{u1} - a_{u2} b_{x1})^3 (a_{x2} d_{u2} - a_{u1} d_{x2}) (b_{x2} d_{u2} - a_{u2} d_{x2}) + 24 (a_{x2} b_{u1} - a_{u2} b_{x1})^3 (a_{x2} d_{u2} - a_{u1} d_{x2}) (b_{x2} d_{u2} - a_{u2} d_{x2}) + 24 (a_{x2} b_{u2} - a_{u2} d_{x2}) (a_{x2} d_{u2} - a_{u2} d_{x2}) + 24 (a_{x2} d_{u2} - a_{u2} d_{x2}) (a_{x2} d_{u2} - a_{u2} d_{x2}) + 24 (a_{x2} d_{u2} - a_{u2} d_{u2}) + 24 (a_{x2} d_{u2} - a_{u2} d$ $b_{y2}\,d_{x2})\,(c_{y2}\,d_{x1}-c_{x2}\,d_{y1})-4\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})^3\,(a_{y2}\,c_{x1}-a_{x2}\,c_{y1})\,(b_{x1}\,d_{y2}-b_{y1}\,d_{x2})\,(d_{x1}\,d_{y2}-b_{y1}\,d_{x2})$ $d_{x2} d_{u1}) + 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (b_{x1} d_{y1} - b_{y1} d_{x1}) (b_{x2} c_{y2} - b_{y2} c_{x2}) +$ $30\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)\left(a_{y2}\,c_{x1}-a_{x2}\,c_{y1}\right)\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)^{2}+24\left(a_{x1}\,b_{y1}-a_{y1}\,d_{x2}\right)^{2}+24\left(a_{x1$ $(a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} d_{y2} - b_{y1} d_{x2}) (b_{y2} d_{x1} - b_{x2} d_{y1}) - 8 (a_{x1} b_{y1} - b_{y1} d_{x2}) (a_{y1} c_{y2} - a_{y1} c_{y2}) (a_{y1$ $(a_{y1} b_{x1})^3 (a_{y2} b_{x1} - a_{x2} b_{y1}) (c_{x1} d_{y2} - c_{y1} d_{x2}) (d_{x1} d_{y2} - d_{x2} d_{y1}) + 12 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x1}) (a_{x$ $a_{y1} b_{x2}$) $(a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2})^2 + 24 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} d_{x2})^2 + 24 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} d_{x2})^2 + 24 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y2} a_{y2}) (a_{x1} a_{y2} - a_{y2} a_{y1}) (a_{x1} a_{y2} - a_{y2} a_{y2}) (a_{x1} a_{y2} - a_{y2} a_{y1}) (a_{x1} a_{y2} - a_{y2} a_{y2}) (a_{x2} a_{y1} a_{y2} - a_{y2} a_{y2}) (a_{x1} a_{y2} - a_{y2} a_{y2}) (a_{x2} a_{y2}$ $(a_{u1} b_{x1})^2 (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) (d_{x1} d_{y2} - d_{x2} d_{y1}) + 72 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{y1}) (a_{x1} b_{y2} - a_{y1} b_{y1}) (a_{y1} b_{y1} - a_{y1} b_{y1}) (a_{y1} b_{y2} - a_{y1} b_{y1}) (a_{y1} b_{y2} - a_{y1} b_{y1}) (a_{y1} b_{y1} - a_{y1} b_{y1}) (a_{y1} b_{y2} - a_{y1} b_{y1}) (a_{y1} b_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1}) (a_{y$ $a_{y1} b_{x2}) \left(a_{x1} c_{y2} - a_{y1} c_{x2}\right) \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right) \left(b_{x1} d_{y1} - b_{y1} d_{x1}\right) \left(b_{x1} d_{y2} - b_{y1} d_{x2}\right) + 24 \left(a_{x1} b_{y1} - b_{y1} d_{x2}\right) \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right) + 24 \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x2}\right) \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right) \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x2}\right) \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right) \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x2}\right) \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x2}\right) \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right) \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x2}\right) \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x2}\right) \left(a_{x1} d_{y$ $(a_{y1} b_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) (c_{x1} d_{y1} - c_{y1} d_{x1}) - 8 (a_{x1} b_{y1} - a_{y1} d_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{y2} b_{x1} - a_{y2} b_{y1}) (a_{y2$ $(a_{y1} b_{x1})^3 (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{y2} d_{x1} - b_{x2} d_{y1}) (c_{x2} d_{y2} - c_{y2} d_{x2}) + 24 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y2} a_{y2}) + 24 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y2} a_{y2}) + 24 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y2} a_{y2}) + 24 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y2} - a_{y2} a_{y2}) + 24 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y2} - a_{y2} a_{y2}) + 24 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y2} - a_{y2} a_{y2}) + 24 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y2} - a_{y2} a_{y2}) + 24 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y2} - a_{y2} a_{y2}) + 24 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y2} - a_{y2} a_{y2}) + 24 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y2} - a_{y2} a_{y2}) + 24 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y2} - a_{y2} a_{y2}) + 24 (a_{x1} a_{y2} - a_{y2} a_{y2} a_{y2} a_{y2} a_{y2}) + 24 (a_{x1} a_{y2} - a_{y2} a_{y2$ $a_{v1} b_{x1}$) $(a_{x1} d_{v2} - a_{v1} d_{x2}) (b_{x1} c_{v1} - b_{v1} c_{x1}) (b_{x1} d_{v1} - b_{v1} d_{x1}) (b_{x1} d_{v2} - b_{v1} d_{x2}) - 40 (a_{x1} b_{v1} - b_{v1} d_{x2})$ $(a_{y1} b_{x1})^3 (b_{x1} b_{y2} - b_{x2} b_{y1}) (c_{x1} d_{y1} - c_{y1} d_{x1}) (c_{x2} d_{y2} - c_{y2} d_{x2}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x2} d_{y2} - a_{y1} b_{x1})^3 (a_{y1} d_{y1} - a_{y1} d_{y1})^3 (a_{y2} d_{y2} - a_{y1} d_{y1})^3 (a_{y1} d_{y1} - a_{y1} d_{y1})^3 (a_{y2} d_{y2} - a_{y1} d_{y1})^3 (a_{y1} d_{y1} - a_{y1} d_{y1})^3 (a_{y2} d_{y2} - a_{y1} d_{y1})^3 (a_{y1} d_{y1} - a_{y1} d_{y1})^3 (a_{y2} d_{y2} - a_{y1} d_{y1})^3 (a_{y1} d_{y1} - a_{y1} d_{y1})^3 (a_{y2} d_{y2} - a_{y1} d_{y1})^3 (a_{y1} d_{y1} - a_{y1} d_{y1})^3 (a_{y2} d_{y2} - a_{y1} d_{y1})^3 (a_{y1} d_{y1} - a_{y1} d_{y1})^3 (a_{y2} d_{y2} - a_{y1} d_{y1})^3 (a_{y1} d_{y1} - a_{y1} d_{y1})^3 (a_{y2} d_{y2} - a_{y1} d_{y1})^3 (a_{y1} d_{y1} - a_{y1} d_{y1})^3 (a_{y2} d_{y2} - a_{y1} d_{y1})^3 (a_{y1} d_{y1} - a_{y1} d_{y1})^3 (a_{y2} d_{y2} - a_{y1} d_{y2})^3 (a_{y2} d_{y2} - a_{y1} d_{y1})^3 (a_{y2} d_{y2} - a_{y1} d_{y2})^3 (a_{y2} d_{y2} - a_{y1} d_{y2})^3 (a_{y2} d_{y2} - a_{y2} d_{y2} - a_{y2} d_{y2})^3 (a_{y2} d_{y2} - a_{y2} d_{y2} - a_{y2} d_{y2})^3 (a_{y2} d_{y2} - a_{y2} d_{y2} - a_{y2} d_{y2})^3 (a_{y2}$ $(a_{y2} d_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1}) (c_{x1} d_{y1} - c_{y1} d_{x1}) + 48 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (b_{x1} b_{y2} - a_{y1} c_{x2}) (a_{x2} c_{y2} - a_{y1} c_{y2}) (a_{x2} c_{y2} - a_{y2} c_{y2}) (a_{x$ $b_{x2}\,b_{y1})\,(b_{x1}\,d_{y2}-b_{y1}\,d_{x2})\,(c_{x1}\,d_{y1}-c_{y1}\,d_{x1}) + 6\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})^2\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})\,(a_{x2}\,d_{y2}-a_{y1}\,d_{x2})$ $(a_{y2} d_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1})^2 - 24 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (b_{x1} c_{y1} - a_{y1} b_{x2}) (a_{x2} c_{y2} - a_{y1} c_{x2}) (a_{x2} c_{y2} - a_{y2} c_{y2}) (a_{x$ $b_{y1}\,c_{x1})\,(b_{x1}\,d_{y1}-b_{y1}\,d_{x1})\,(b_{x1}\,d_{y2}-b_{y1}\,d_{x2})+12\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})\,(a_{x1}\,d_{y1}-a_{y1}\,d_{x1})^2\,(a_{u2}\,b_{x1}-a_{y1}\,b_{x1})$ $(a_{x2} b_{y1}) (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) + 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (b_{x1} c_{y2} - a_{y1} c_{x1}) (b_{x$ $b_{y1} c_{x2}$) $(b_{x1} d_{y1} - b_{y1} d_{x1}) (b_{x2} d_{y2} - b_{y2} d_{x2}) - 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{y2} d_{x1} - a_{x2} d_{y1}) (b_{x1} c_{y1} - a_{y1} b_{x1})^3$ $b_{y1} c_{x1} (d_{x1} d_{y2} - d_{x2} d_{y1}) + 36 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} d_{y2} - b_{y2} b_{y1}) (b_{x1} d_{y2} - b_{y2} b_{y1}) (b_{y1} d_{y2} - b_{y2} b_{y1}) (b_{y2} d_{y2} - b_{y2} b_{y2}) (b_{y2}$ $b_{y1} d_{x2}$) $(c_{y2} d_{x1} - c_{x2} d_{y1}) - 24 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} d_{y1} - a_{y1} b_{x1})^2$ $b_{y1} d_{x1}$) $(c_{x1} d_{y1} - c_{y1} d_{x1}) + 72 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (b_{x1} b_{y2} - a_{y1} c_{x2}) (b_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1$ $(b_{x2} b_{y1}) (b_{x1} d_{y1} - b_{y1} d_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (b_{x1} d_{y1} - b_{y1} d_{x1}) (b_{x2} c_{y2} - b_{y1} d_{x2}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{y1} - a_{y1} d_{x1}) (a_{y1} - a_{y1} d_{x1$ $b_{y2}\,c_{x2})\,(c_{x1}\,d_{y1}-c_{y1}\,d_{x1})-16\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})^3\,(b_{x1}\,c_{y1}-b_{y1}\,c_{x1})\,(b_{x2}\,c_{y2}-b_{y2}\,c_{x2})\,(d_{x1}\,d_{y2}-b_{y2}\,c_{x2})$ $d_{x2} d_{y1}) + 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (b_{x1} d_{y1} - b_{y1} d_{x1})^2 (b_{x2} c_{y2} - b_{y2} c_{x2}) 16\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{3}\left(b_{x1}\,c_{y1}-b_{y1}\,c_{x1}\right)\left(b_{y2}\,d_{x1}-b_{x2}\,d_{y1}\right)\left(c_{x2}\,d_{y2}-c_{y2}\,d_{x2}\right)+12\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{3}\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{3}\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{3}\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{3}\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{3}\left(a_{x1}\,a_{y1}-a_{y1$ $(a_{u1} b_{u1}) (a_{u1} d_{u1} - a_{u1} d_{u1})^2 (b_{u1} b_{u2} - b_{u2} b_{u1}) (b_{u1} c_{u1} - b_{u1} c_{u1}) (b_{u1} c_{u2} - b_{u1} c_{u2}) - 8 (a_{u1} b_{u1} - b_{u1} c_{u2}) - 8 (a_{u1} b_{u2} - b_{u1} c_{u2}) - 8 (a_{u1} b_{u2} - b_{u2} c_{u2}) - 8 (a_{u1} b_{u2} - b_{u2} c_{u2}) - 8 (a_{u1} b_{u2} - b_{u2} c_{u2}) - 8 (a_{u2} b_{u2} c_{u2} c_{u2}) - 8 (a_{u2} b_{u2} c_{u2} c_{u2}) - 8 (a_{u2} b_{u2} c_{u2} c_{u2}) - 8 (a_{u2} c_{u2} c_{u$ $(a_{y1} b_{x1})^3 (b_{x1} d_{y1} - b_{y1} d_{x1}) (b_{y2} c_{x1} - b_{x2} c_{y1}) (c_{x2} d_{y2} - c_{y2} d_{x2}) - 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (b_{x1} c_{y1} - a_{y1$ $b_{y1} c_{x1} (b_{y2} d_{x1} - b_{x2} d_{y1}) (c_{y2} d_{x1} - c_{x2} d_{y1}) + 8 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^3 (a_{y2} b_{x1} - a_{y1} c_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^3 (a_{y2} b_{x1} - a_{y1} c_{x1}) (a_{y1} d_{y1} - a_{y1} d_{y1})^3 (a_{y2} b_{x1} - a_{y1} c_{x1}) (a_{y1} d_{y1} - a_{y1} d_{y1})^3 (a_{y2} d_{y1} - a_{y1} d_{y1} - a_{y1} d_{y1})^3 (a_{y2} d_{y1} - a_{y1} d_{y1} - a_{y1} d_{y1})^3 (a_{y2} d_{y1} - a_{y1} d_$ $(a_{x2} b_{y1}) (b_{x1} c_{y1} - b_{y1} c_{x1}) - 24 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} d_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} b_{y2} - b_{x2} b_{y1}) (a_{x1} d_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} b_{y2} - b_{x2} b_{y1}) (a_{x1} d_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} b_{y2} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y1} - a_{y1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1})^2 (a_{x1} d_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1})^2 (a_{x1} d_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1$ $b_{y1}\,d_{x1})\,(c_{x1}\,d_{y1}-c_{y1}\,d_{x1})-12\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})^2\,(a_{x1}\,d_{y1}-a_{y1}\,d_{x1})^2\,(a_{y2}\,b_{x1}-a_{x2}\,b_{y1})\,(b_{x1}\,d_{y1}-a_{y1}\,d_{x1})^2$ $(b_{y1} d_{x1}) - 8 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2})^3 (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} c_{y1} - b_{y1} c_{x1}) - b_{y1} c_{x1}$ $6\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)\left(a_{y2}\,d_{x1}-a_{x2}\,d_{y1}\right)\left(c_{x1}\,d_{y1}-c_{y1}\,d_{x1}\right)+$ $12\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{2}\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)^{2}\left(a_{y2}\,b_{x1}-a_{x2}\,b_{y1}\right)\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)+12\left(a_{x1}\,c_{y1}-a_{y1}\,d_{x2}\right)^{2}$ $(a_{y1} c_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (b_{x1} d_{y2} - b_{y1} d_{x2})$ $b_{y1} d_{x2}$) $(b_{x2} c_{y2} - b_{y2} c_{x2}) (c_{x1} d_{y2} - c_{y1} d_{x2}) + 30 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y2} - a_{y1} a_{y1})^2$

 $a_{u1} d_{x2}) (c_{x1} d_{u1} - c_{u1} d_{x1})^{2} + 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^{2} (a_{x1} c_{y1} - a_{y1} c_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2})^{2} (b_{x2} c_{y2} - a_{y1} c_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2})^{2} (b_{x2} c_{y2} - a_{y1} c_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2})^{2} (b_{x2} c_{y2} - a_{y1} c_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2})^{2} (b_{x2} c_{y2} - a_{y1} c_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2})^{2} (b_{x2} c_{y2} - a_{y1} c_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2})^{2} (b_{x2} c_{y2} - a_{y1} c_{x1}) (b_{x1} d_{y2} - a_{y1} c_{x1}) (b_{x1} d$ $b_{y2} c_{x2}$) + 24 $(a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} b_{x1} - a_{y1} d_{x2}) (a_{y2} b_{y2} - a_{y1} d_{y2}) (a_{y2$ $(a_{x2} b_{y1}) (c_{x1} d_{y1} - c_{y1} d_{x1}) + 12 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} c_{y1} - b_{y2} b_{y1}) (b_{x1} c_{y1} - b_{y2} b_{y1}) (b_{y1} c_{y1} - b_{y2} b_{y2} b_{y2} b_{y2} b_{y2}) (b_{y1} c_{y1} - b_{y2} b_{y2} b_{y2} b_{y2} b_{y2} b_{y2}) (b_{y1} c_{y1} - b_{y2} b$ $b_{y1} c_{x1} (b_{x1} c_{y2} - b_{y1} c_{x2}) + 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} d_{x1} - a_{y1} c_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} d_{x1} - a_{y1} c_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} d_{x1} - a_{y1} d_{x2}) (a_{y2}$ $(a_{x2} d_{y1}) (c_{x1} d_{y1} - c_{y1} d_{x1}) - 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{x2} d_{y2} - b_{y2} d_{x2}) (c_{x2} d_{y2} - b_{y2} d_{x2}) (c_{x2$ $(c_{u2} d_{x2}) + 36 (a_{x1} b_{u1} - a_{u1} b_{x1})^2 (a_{x1} c_{u1} - a_{u1} c_{x1})^2 (b_{x2} d_{u2} - b_{u2} d_{x2}) (c_{u2} d_{x1} - c_{x2} d_{u1}) - (c_{u2} d_{x2}) (c_{u2} d_{x1} - c_{x2} d_{u1}) - (c_{u2} d_{x2}) (c_{u2} d_{x2})$ $24\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)\left(b_{x1}\,b_{y2}-b_{x2}\,b_{y1}\right)\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)\left(c_{x1}\,d_{y2}-c_{y1}\,d_{x2}\right)+$ $12\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{2}\left(b_{x2}\,c_{y2}-b_{y2}\,c_{x2}\right)\left(d_{x1}\,d_{y2}-d_{x2}\,d_{y1}\right)-12\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{2}$ $(a_{y1} c_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} d_{y1} - b_{y1} d_{x1}) - 24 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} b_{x1}) (a_$ $(a_{y1} c_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{y2} d_{x1} - b_{x2} d_{y1}) - 24 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} b_{x1}) (a_{x$ $a_{y1} c_{x1}$) $(a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (c_{x1} d_{y2} - c_{y1} d_{x2}) - 24 (a_{x1} b_{y2} - a_{y1} d_{x2}) - 24 (a_{x1}$ $(a_{x1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1}) + 24 (a_{x1} a_{y2} - a_{y1} d_{x2}) (a_{x2} c_{y2} - a_{y2} d_{x2}) (a_{x$ $(a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (c_{x1} d_{y2} - c_{y1} d_{x2}) (d_{x1} d_{y2} - d_{x2} d_{y1}) + 24 (a_{x1} b_{y1} - a_{y1} c_{y1}) (a_{y1} d_{y2} - d_{y1} d_{y2}) (d_{y1} d_{y2} - d_{y1} d_{y2}) + 24 (a_{y1} d_{y1} - a_{y1} d_{y1}) + 24 (a_{y1} d_{y1} - a_{y1} d_{y2}) (d_{y1} d_{y2} - d_{y1} d_{y1}) + 24 (a_{y1} d_{y1} - a_{y1} d_{y1} - a_{y1} d_{y1}) + 24 (a_{y1} d_{y1} - a_{y1} d_{y1} - a_{y1} d_{y1}) + 24 (a_{y1} d_{y1} - a_{y1} d_{y1} - a_{y1} d_{y1}) + 24 (a_{y1} d_{y1} - a_{y1} d_{y1} - a_{y1} d_{y1}) + 24 (a_{y1} d_{y1} - a_{y1} d_{y1} - a_{y1} d_{y1}) + 24 (a_{y1} d_{y1} - a_{y1} d_{y1} - a_{y1} d_{y1}) + 24 (a_{y1} d_{y1} - a_{y1} d_{y1} - a_{y1} d_{y1}) + 24 (a_{y1} d_{y1} - a_{y1} d_{y1} - a_{y1} d_{y1}) + 24 (a_{y1} d_{y1} - a_{y1} d_{y1} - a_{y1} d_{y1}) + 24 (a_{y1} d_{y1} - a_{y1} d_{y1} - a_{y1} d_{y1}) + 24 (a_{y1} d_{y1} - a_{y1} d_{y1} - a_{y1} d_{y1}) + 24 (a_{y1} d_{y1} - a_{y1} d_{y1} - a_{y1} d_{y1}) + 24 (a_{y1} d_{y1} - a_{y1} d_{y1} - a_{y1} d_{y1}) + 24 (a_{y1} d_{y1} - a_{y1} d_{y1} - a_{y1} d_{y1}) + 24 (a_{y1} d_{y1} - a_{y1} d_{y1} - a_{y1} d_{y1}) + 24 (a_{y1} d_{y1} - a_{y1} d_{y1} - a_{y1}$ $(a_{u1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{y2} d_{x1} - b_{x2} d_{y1}) - 8 (a_{x1} b_{y1} - b_{y1} c_{y2}) (a_{y1} c_{y2} - b_{y1} c_{y2}) (a_{y2} c_{y1} - b_{y2} c_{y1}) - 8 (a_{y1} c_{y2} - b_{y1} c_{y2}) (a_{y2} c_{y1} - b_{y2} c_{y1}) - 8 (a_{y1} c_{y2} - b_{y1} c_{y2}) (a_{y2} c_{y1} - b_{y2} c_{y1}) - 8 (a_{y1} c_{y2} - b_{y1} c_{y2}) (a_{y2} c_{y1} - b_{y2} c_{y1}) - 8 (a_{y1} c_{y2} - b_{y1} c_{y2}) (a_{y2} c_{y1} - b_{y2} c_{y1}) - 8 (a_{y1} c_{y2} - b_{y1} c_{y2}) (a_{y2} c_{y1} - b_{y2} c_{y1}) - 8 (a_{y1} c_{y2} - b_{y1} c_{y2}) (a_{y2} c_{y1} - b_{y2} c_{y1}) - 8 (a_{y1} c_{y2} - b_{y1} c_{y2}) (a_{y1} c_$ $(a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (b_{x1} c_{y2} - b_{y1} c_{x2})^2 (c_{x1} d_{y1} - c_{y1} d_{x1}) + 24 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{y1} c_{y2} - a_{y1} c_{y2})^2 (a_{y1} c_{y1} c_{y2} - a_{y1} c_{y2})^2 (a_{y1} c_{y2}$ $(a_{x1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} c_{y1} - b_{y1} c_{x1})^2 + 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^2$ $(a_{y1} d_{x1}) (b_{x1} c_{y2} - b_{y1} c_{x2})^2 (c_{x1} c_{y2} - c_{x2} c_{y1}) - 72 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} c_{x2})^2$ $a_{y1} d_{x2}) \left(b_{y2} c_{x1} - b_{x2} c_{y1}\right) \left(c_{x1} d_{y1} - c_{y1} d_{x1}\right) + 12 \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right)^{2} \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right)^{2} \left(b_{x1} b_{y2} - a_{y1} d_{x1}\right)^{2} \left(a_{x1} d_{y1} -$ $(b_{x2} b_{y1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) - 24 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (b_{x1} b_{y2} - a_{y1} c_{x2})$ $b_{x2}\,b_{y1})\,(b_{x1}\,d_{y2}-b_{y1}\,d_{x2})+24\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})\,(a_{x1}\,c_{y2}-a_{y1}\,c_{x2})\,(a_{x1}\,d_{y1}-a_{y1}\,d_{y2})$ $(a_{y1} d_{x1}) (b_{x1} b_{y2} - b_{x2} b_{y1}) (c_{x1} d_{y1} - c_{y1} d_{x1}) + 12 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{y2} b_{x1} - a_{y1}$ $(a_{x2} b_{y1}) (b_{x1} c_{y1} - b_{y1} c_{x1}) (d_{x1} d_{y2} - d_{x2} d_{y1}) + 18 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} b_{x2}) (a_{x$ $a_{y1} c_{x2}) (c_{x1} d_{y1} - c_{y1} d_{x1})^{2} + 4 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} c_{y1} - a_{y1} d_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x2} d_{y1} - a_{y2} d_{x2}) (a_{x2} d_{y1} - a_{y1} d_{x2}) (a_{x2} d_{y2} - a_{y1} d_{x2}) (a_{x2} d_{y2} - a_{y2} d_{x2}) (a_{x2} d_{y1} - a_{y2} d_{x2}) (a_{x2} d_{y2} - a_{y2} d_{x2}) (a_{x2} d_{x2} - a_{y2} d_{x2}) (a_{x2} d_{x2} - a_{y2} d_{x2}) (a_{x$ $(b_{y1} c_{x1})^3 + 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (b_{y2} c_{x1} - b_{x2} c_{y1}) (c_{x1} d_{y1} - a_{y1} d_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} c_{y1} - a_{y1} d_{x1}) (a_{y1} c_{y2} - a_{y1} c_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} c_{y1} - a_{y1} d_{x1}) (a_{y1} c_{y2} - a_{y1} c_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} c_{y1} - a_{y1} d_{x1}) (a_{y1} c_{y2} - a_{y1} c_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_$ $(c_{y1} d_{x1}) - 12 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{x1} d_{y1} - b_{y1} d_{x1}) (b_{x1} d_{y2} - a_{y1} c_{x1})^2 (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{x1} d_{y1} - b_{y1} d_{x1}) (b_{x1} d_{y2} - a_{y1} c_{x1})^2 (b_{x1} c_{y1} - a_{y1} c_{x1})^2 (b_{x1} c_{y1} - a_{y1} c_{x1}) (b_{x1} d_{y1} - b_{y1} d_{x1}) (b_{x1} d_{y1} - a_{y1} c_{x1})^2 (b_{x1} c_{y1} - a_{y1} c_{x1}) (b_{x1} d_{y1} - a_{y1} c_{x1$ $b_{y1} d_{x2}$) +8 $(a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{x1} d_{y1} - b_{y1} d_{x1}) + 8 (a_{x1} c_{y1} - b_{y1} d_{x1}) + 8 (a_{x1} c_{y1} - a_{y1} d_{x1}) + 8 (a_{x1} c_{y1} - a$ $(a_{y1} c_{x1})^3 (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} d_{y1} - b_{y1} d_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) - 12 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x1})^2 (a_{y1} c_{y2} - a_{y1} c_{y1})^2 (a_{y1} c_{y1} - a_{y1} c_{y1} c_{y1})^2 (a_{y1} c_{y1} - a_{y1} c_{y1} c_{y1} c_{y1})^2 (a_{y1} c_{y1} - a_{y1} c_{y1} c_{y1$ $(a_{u1} c_{x2})^2 (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1}) - 20 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{y2} c_{x1} - a_{x2} c_{y1}) (c_{x1} d_{y1} - a_{y1} b_{x1})^3$ $c_{y1} d_{x1}) (c_{x1} d_{y2} - c_{y1} d_{x2}) + 8 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (b_{x1} c_{y2} - b_{y1} c_{x2})^2 (c_{x1} d_{y2} - a_{y1} c_{y1} c_{y1} - a_{y1} c_{y2})^2 (c_{x1} d_{y2} - a_{y1} c_{y1} c_{y1} - a_{y1} c_{y2})^2 (c_{x1} d_{$ $(c_{y1} d_{x2}) + 4 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (b_{x1} c_{y1} - b_{y1} c_{x1})^3 6\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(b_{x1}\,c_{y2}-b_{y1}\,c_{x2}\right)^{2}\left(c_{x1}\,c_{y2}-c_{x2}\,c_{y1}\right)+12\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}$ $(a_{u1} b_{u1}) (a_{u1} c_{u1} - a_{u1} c_{u1})^2 (b_{u1} b_{u2} - b_{u2} b_{u1}) (b_{u1} c_{u1} - b_{u1} c_{u1}) (c_{u2} d_{u1} - c_{u2} d_{u1}) + 12 (a_{u1} c_{u1} - a_{u1} c_{u1}) (a_{u1} c_{u1} - a_{u1} c_{u1}) (a_{u1} c_{u1} - a_{u1} c_{u1}) + 12 (a_{u1} c_{u1} - a_{u1} c_{u1}) (a_{u1} c_{u1} - a_{u1} c_{u1})$ $(a_{x1} c_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) - 12 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} b_{x2}) (a_$ $(a_{u1} c_{x1})^2 (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1}) + 24 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} b_{x1}) (a_{x$ $a_{u1} c_{x1}$) $(a_{x1} c_{u2} - a_{u1} c_{x2}) (a_{x1} d_{u2} - a_{u1} d_{x2}) (b_{x1} b_{u2} - b_{x2} b_{u1}) (c_{x1} d_{u2} - c_{u1} d_{x2}) + 8 (a_{x1} c_{u1} - a_{u1} c_{u2}) + 8 (a_{x1} c_{u1} - a_{u1} c_{u2}) + 8 (a_{x1} c_{u1} - a_{u1} c_{u2}) + 8 (a_{x1} c_{u2} - a_{u1} c_{u2}) + 8 (a_{x1} c_{u1} - a_{u2} c_{u2}) + 8 (a_{x1} c_{u2} - a_{u1} c_{u2}) + 8 (a_{x1} c_{u2} - a_{u2} c_{u2}) + 8 (a_{x1} c_{u2} - a_{u2}$ $(a_{y1} c_{x1})^3 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1}) + 18 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - b_{y1} c_{x2}) (a_{y1} c_{y1} c_{y2} - b_{y1} c_{y2}) (a_{y1} c_{y2} - b_{y1} c_{y$ $a_{y1}\,b_{x2})\,(a_{x1}\,c_{y2}-a_{y1}\,c_{x2})\,(c_{x1}\,d_{y2}-c_{y1}\,d_{x2})^2-20\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})^3\,(b_{y2}\,c_{x1}-b_{x2}\,c_{y1})\,(c_{x1}\,c_{y2}-a_{y1}\,c_{x2})^2+20\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x2})^3\,(a_{y1}\,c_{y2}-a_{y1}\,c_{y2})^2+20\,(a_{y1}\,c_{y2}-a_{y1}\,c_{y2})^3\,(a_{y1}\,c_{y2}-a_{y1}\,c_{y2})^3+20\,(a_{y1}\,c_{y2}-a_{y2}\,c_{y2})^3+20\,(a_{y1}\,c_{y2}-a_{y2}\,c_{y2})^3+20\,(a_{y1}\,c_{y2}-a_{$ $c_{x2} c_{y1}) (c_{x1} d_{y1} - c_{y1} d_{x1}) + 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{y2} c_{x1} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} c_{y1} - a_{y1} d_{x2}) (a_{y2$ $b_{x2} c_{y1}$) $(c_{x1} d_{y2} - c_{y1} d_{x2}) - 4 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} c_{y1} - a_{y1} d_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1}$ $(b_{y1} c_{x1})^3 - 8 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) +$ $12\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{2}\left(b_{x1}\,b_{y2}-b_{x2}\,b_{y1}\right)\left(b_{x1}\,c_{y1}-b_{y1}\,c_{x1}\right)\left(c_{x2}\,d_{y2}-c_{y2}\,d_{x2}\right)+$

 $12\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{2}\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)^{2}\left(b_{x1}\,c_{y2}-b_{y1}\,c_{x2}\right)\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)+12\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{2}\left(b_{x1}\,c_{y1}-b_{y1}\,c_{x1}\right)\left(b_{x1}\,c_{y2}-b_{y1}\,c_{x2}\right)\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)-2\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{3}\left(c_{x1}\,c_{y2}-c_{x2}\,c_{y1}\right)^{3}-8\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{3}\left(b_{x1}\,b_{y2}-b_{x2}\,b_{y1}\right)\left(b_{x1}\,c_{y2}-b_{y1}\,c_{x2}\right)\left(b_{x1}\,d_{y2}-b_{y1}\,c_{x2}\right)\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)-4\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)\left(b_{x1}\,c_{y1}-b_{y1}\,c_{x1}\right)\left(b_{x1}\,c_{y2}-b_{y1}\,c_{x2}\right)\left(c_{x1}\,c_{y2}-c_{x2}\,c_{y1}\right)+20\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{3}\left(b_{y2}\,c_{x1}-b_{x2}\,c_{y1}\right)\left(c_{x1}\,c_{y2}-c_{x2}\,c_{y1}\right)\left(c_{x1}\,d_{y2}-c_{y1}\,d_{x2}\right)$

 $c_4 = 30 \left(a_{x1} \, a_{y2} - a_{x2} \, a_{y1} \right) \left(a_{x1} \, c_{y2} - a_{y1} \, c_{x2} \right) \left(a_{x1} \, d_{y1} - a_{y1} \, d_{x1} \right)^4 + 15 \left(a_{x1} \, b_{y2} - a_{y1} \, b_{x2} \right)^2 \left(a_{x1} \, d_{y1} - a_{y1} \, d_{x1} \right)^4 + 16 \left(a_{x1} \, b_{y2} - a_{y1} \, b_{x2} \right)^2 \left(a_{x1} \, d_{y1} - a_{y1} \, d_{x1} \right)^4 + 16 \left(a_{x1} \, b_{y2} - a_{y1} \, b_{x2} \right)^2 \left(a_{x1} \, d_{y1} - a_{y1} \, d_{x1} \right)^4 + 16 \left(a_{x1} \, b_{y2} - a_{y1} \, b_{x2} \right)^2 \left(a_{x1} \, d_{y1} - a_{y1} \, d_{x1} \right)^4 + 16 \left(a_{x1} \, b_{y2} - a_{y1} \, b_{x2} \right)^2 \left(a_{x1} \, d_{y1} - a_{y1} \, d_{x1} \right)^4 + 16 \left(a_{x1} \, b_{y2} - a_{y1} \, b_{x2} \right)^2 \left(a_{x1} \, d_{y1} - a_{y1} \, d_{x1} \right)^4 + 16 \left(a_{x1} \, b_{y2} - a_{y1} \, b_{x2} \right)^2 \left(a_{x1} \, d_{y1} - a_{y1} \, d_{x1} \right)^4 + 16 \left(a_{x1} \, b_{y2} - a_{y1} \, b_{x2} \right)^2 \left(a_{x1} \, d_{y1} - a_{y1} \, d_{x1} \right)^4 + 16 \left(a_{x1} \, b_{y2} - a_{y1} \, b_{x2} \right)^2 \left(a_{x1} \, d_{y1} - a_{y1} \, d_{x1} \right)^4 + 16 \left(a_{x1} \, b_{y2} - a_{y1} \, b_{x2} \right)^2 \left(a_{x1} \, d_{y1} - a_{y1} \, d_{x1} \right)^4 + 16 \left(a_{x1} \, b_{y2} - a_{y1} \, b_{x2} \right)^2 \left(a_{x1} \, d_{y1} - a_{y1} \, d_{x1} \right)^4 + 16 \left(a_{x1} \, b_{y2} - a_{y1} \, b_{x2} \right)^2 \left(a_{x1} \, d_{y1} - a_{y1} \, d_{y1} \right)^4 + 16 \left(a_{x1} \, b_{y2} - a_{y1} \, b_{y2} \right)^2 \left(a_{x1} \, d_{y1} - a_{y1} \, d_{y1} \right)^4 + 16 \left(a_{x1} \, b_{y2} - a_{y1} \, b_{y2} \right)^2 \left(a_{x1} \, d_{y1} - a_{y1} \, d_{y1} \right)^2 + 16 \left(a_{x1} \, b_{y2} - a_{y1} \, b_{y2} \right)^2 \left(a_{x1} \, d_{y1} - a_{y1} \, d_{y1} \right)^2 + 16 \left(a_{x1} \, b_{y2} - a_{y1} \, b_{y2} \right)^2 \left(a_{x1} \, d_{y1} - a_{y1} \, d_{y1} \right)^2 + 16 \left(a_{x1} \, d_{y1} - a_{y1} \, d_{y1} \right)^2 \left(a_{x1} \, d_{y1} - a_{y1} \, d_{y1} \right)^2 + 16 \left(a_{x1} \, d_{y1} - a_{y1} \, d_{y1} \right)^2 + 16 \left(a_{x1} \, d_{y1} - a_{y1} \, d_{y1} \right)^2 + 16 \left(a_{x1} \, d_{y1} - a_{y1} \, d_{y1} \right)^2 + 16 \left(a_{x1} \, d_{y1} - a_{y1} \, d_{y1} \right)^2 + 16 \left(a_{x1} \, d_{y1} - a_{y1} \, d_{y1} \right)^2 + 16 \left(a_{x1} \, d_{y1} - a_{y1} \, d_{y1} \right)^2 + 16 \left(a_{x1} \, d_{y1} - a_{y1} \, d_{y1} \right)^2 + 16 \left(a_{x1} \, d_{y1} - a_{y1} \, d_{y1} \right)^2 + 16 \left(a_{x1} \, d_{y1}$ $(a_{y1} d_{x1})^4 - 120 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^3 (a_{x1} d_{y2} - a_{y1} d_{x2}) - (a_{x1} d_{y2} - a_{y1} d_{x2})^3 (a_{x1} d_{y2} - a_{y1} d_{x2}) - (a_{x1} d_{y2} - a_{y1} d_{x2})^3 (a_{x1} d_{y2} - a_{y1} d_{x2})^3 - (a_{x1} d_{y2} - a_{y1} d_{x2})^3 (a_{x1} d_{y2} - a_{y1} d_{x2})^3 - (a_{x1} d_{y2} - a_{y1}$ $60\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)^{2}\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)^{3}\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)-60\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)\left(a_{x1}\,c_{y2}-a_{y1}\,b_{x2}\right)$ $(a_{x1} c_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^3 + 180 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} c_{x2})$ $(a_{y1} d_{x2})^2 + 90 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 + 180 (a_{x1} b_{y2} - a_{y1} d_{x2})^2$ $a_{y1}\,b_{x2})\,(a_{x1}\,c_{y2}-a_{y1}\,c_{x2})^2\,(a_{x1}\,d_{y1}-a_{y1}\,d_{x1})^2\,(a_{x1}\,d_{y2}-a_{y1}\,d_{x2})+15\,(a_{x1}\,c_{y2}-a_{y1}\,c_{x2})^4\,(a_{x1}\,d_{y1}-a_{y1}\,d_{x2})+15\,(a_{x1}\,c_{y2}-a_{y1}\,c_{x2})^4\,(a_{x1}\,d_{y1}-a_{y1}\,d_{x2})+15\,(a_{x1}\,c_{y2}-a_{y1}\,c_{x2})^4\,(a_{x1}\,d_{y1}-a_{y1}\,d_{x2})+15\,(a_{x2}\,c_{y2}-a_{y1}\,c_{x2})^4\,(a_{x1}\,d_{y1}-a_{y1}\,d_{x2})+15\,(a_{x2}\,c_{y2}-a_{y1}\,c_{x2})^4\,(a_{x2}\,d_{y1}-a_{y1}\,d_{x2})+15\,(a_{x2}\,c_{y2}-a_{y1}\,c_{x2})^4\,(a_{x2}\,d_{y1}-a_{y1}\,d_{x2})+15\,(a_{x2}\,c_{y2}-a_{y1}\,c_{x2})^4\,(a_{x2}\,d_{y1}-a_{y1}\,d_{x2})+15\,(a_{x2}\,c_{y2}-a_{y1}\,c_{x2})^4\,(a_{x2}\,d_{y1}-a_{y1}\,d_{x2})+15\,(a_{x2}\,c_{y2}-a_{y1}\,c_{x2})^4\,(a_{x2}\,d_{y1}-a_{y1}\,d_{x2})+15\,(a_{x2}\,c_{y2}-a_{y1}\,c_{x2})^4\,(a_{x2}\,d_{y1}-a_{y1}\,d_{x2})+15\,(a_{x2}\,c_{y2}-a_{y1}\,c_{x2})^4\,(a_{x2}\,d_{y1}-a_{y1}\,d_{x2})+15\,(a_{x2}\,c_{y2}-a_{y1}\,c_{x2})^4\,(a_{x2}\,d_{y1}-a_{y1}\,d_{x2})+15\,(a_{x2}\,c_{y2}-a_{y1}\,c_{x2})^4\,(a_{x2}\,d_{y1}-a_{y1}\,d_{x2})+15\,(a_{x2}\,c_{y2}-a_{y1}\,c_{x2})^4\,(a_{x2}\,d_{y1}-a_{y2}\,d_{y2}-a_{y1}\,d_{x2})+15\,(a_{x2}\,d_{y1}-a_{y2}\,d_{y2}-a_{y1}\,d_{y2})+15\,(a_{x2}\,d_{y1}-a_{y2}\,d_{y2}-a_{y1}\,d_{y2})+15\,(a_{x2}\,d_{y1}-a_{y2}\,d_{y2}-a_{y1}\,d_{y2})+15\,(a_{x2}\,d_{y2}-a_{y1}\,d_{y2}-a_{y2}\,d_{y2}-a_{y2}\,d_{y2}-a_{y2}\,d_{y2})+15\,(a_{x2}\,d_{y2}-a_{y2}\,$ $(a_{y1} d_{x1})^2 - 120 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2})^3 - 120 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2})^3 - 120 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2})^3 - 120 (a_{x1} a_{y2} - a_{y1} a_{x2}) (a_{x1} a_{y2} - a_{y1} a_{x2}) (a_{x2} a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{x2} a_{y2} - a_{y2} a_{y1}) (a_{x2} a_{y2} - a_{y2} a_{y2}) (a_{x$ $60\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)^{2}\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)^{3}-180\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)\left(a_{x1}\,c_{y2}-a_{y1}\,b_{x2}\right)^{2}$ $(a_{v1} c_{v2})^2 (a_{x1} d_{v1} - a_{v1} d_{x1}) (a_{x1} d_{v2} - a_{v1} d_{x2})^2 - 30 (a_{x1} c_{v2} - a_{v1} c_{x2})^4 (a_{x1} d_{v1} - a_{v1} d_{x1}) (a_{x1} d_{v2} - a_{v1} d_{x2})^4 - 30 (a_{x1} c_{v2} - a_{v1} c_{x2})^4 (a_{x1} d_{v1} - a_{v1} d_{x1}) (a_{x1} d_{v2} - a_{v1} d_{x2})^2 - 30 (a_{x1} c_{v2} - a_{v1} c_{x2})^4 (a_{x1} d_{v1} - a_{v1} d_{x1}) (a_{x1} d_{v2} - a_{v1} d_{x2})^2 - 30 (a_{x1} c_{v2} - a_{v1} c_{x2})^4 (a_{x1} d_{v1} - a_{v1} d_{x1}) (a_{x1} d_{v2} - a_{v1} d_{x2})^2 - 30 (a_{x1} c_{v2} - a_{v1} c_{x2})^4 (a_{x1} d_{v1} - a_{v1} d_{x1}) (a_{x1} d_{v2} - a_{v1} d_{x2})^2 - 30 (a_{x1} c_{v2} - a_{v1} c_{x2})^4 (a_{x1} d_{v1} - a_{v1} d_{x1}) (a_{x1} d_{v2} - a_{v1} d_{x2})^2 - 30 (a_{x1} c_{v2} - a_{v1} c_{x2})^4 (a_{x1} d_{v1} - a_{v1} d_{x1}) (a_{x1} d_{v2} - a_{v1} d_{x2})^2 - 30 (a_{x1} c_{v2} - a_{v1} c_{x2})^4 (a_{x1} d_{v1} - a_{v1} d_{x1}) (a_{x1} d_{v2} - a_{v1} d_{x2})^2 - 30 (a_{x1} c_{v2} - a_{v1} c_{x2})^4 (a_{x1} d_{v1} - a_{v1} d_{x1}) (a_{x1} d_{v2} - a_{v1} d_{x2})^2 - 30 (a_{x1} c_{v2} - a_{v1} c_{x2})^4 (a_{x1} d_{v1} - a_{v1} d_{x1}) (a_{x1} d_{v2} - a_{v1} d_{x2})^2 - 30 (a_{x1} c_{v2} - a_{v1} c_{x2})^4 (a_{x1} d_{v1} - a_{v1} d_{x1}) (a_{x1} d_{v2} - a_{v1} d_{x2})^2 - 30 (a_{x1} c_{v2} - a_{v1} c_{x2})^4 (a_{x1} d_{v1} - a_{v1} d_{x1}) (a_{x1} d_{v2} - a_{v1} d_{x2})^2 - 30 (a_{x1} c_{v2} - a_{v1} c_{x2})^4 (a_{x1} d_{v1} - a_{v1} d_{x2})^2 - 30 (a_{x1} c_{v2} - a_{v1} c_{x2})^4 (a_{x1} d_{v1} - a_{v1} d_{x2})^2 - 30 (a_{x1} c_{v2} - a_{v1} c_{x2})^4 (a_{x1} d_{v2} - a_{v1} d_{x2})^2 - 30 (a_{x1} c_{v2} - a_{v1} c_{x2})^4 (a_{x1} d_{v2} - a_{v1} d_{x2})^2 - 30 (a_{x1} c_{v2} - a_{v1} c_{x2})^4 (a_{x1} d_{v2} - a_{v1} d_{x2})^2 - 30 (a_{x1} c_{v2} - a_{v1} c_{x2})^4 (a_{x1} d_{v2} - a_{v1} d_{x2})^2 - 30 (a_{x1} c_{v2} - a_{v1} c_{x2})^4 (a_{x1} d_{v2} - a_{v1} d_{x2})^2 - 30 (a_{x1} c_{v2} - a_{v1} c_{x2})^4 (a_{x1} d_{v2} - a_{v2} c_{x2})^4 - 30 (a_{x1} c_{v2} - a_{v2} c_{x2})^4 - 30 (a_{x1} c_{v2} - a_{v2} c_{x2})^4 - 30 (a_{x1} c_{v2} - a_{v2} c_{x2})^4$ $(a_{y1} d_{x2}) + 30 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^4 + 15 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^4 + 15 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^4 + 15 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^4 + 15 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^4 + 15 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^4 + 15 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^4 + 15 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^4 + 15 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^4 + 15 (a_{x1} b_{y2} - a_{y1} d_{x2})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (a_{x1} d_$ $(a_{y1} d_{x2})^4 + 60 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^3 + 15 (a_{x1} c_{y2} - a_{y1} c_{x2})^4 (a_{x1} d_{y2} - a_{y1} c_{x2})^4 + 15 (a_{x1} c_{y2} - a_{y1} c_{x2})^4 (a_{x1} d_{y2} - a_{y1} c_{x2})^4 + 15 (a_{x1} c_{y2} - a_{y1} c_{x2})^4 (a_{x1} d_{y2} - a_{y1} c_{x2})^4 + 15 (a_{x1} c_{y2} - a_{y1} c_{x2})^4 (a_{x1} d_{y2} - a_{y1} c_{x2})^4 + 15 (a_{x1} c_{y2} - a_{y1} c_{x2})^4 (a_{x1} d_{y2} - a_{y1} c_{x2})^4 + 15 (a_{x1} c_{y2} - a_{y1} c_{y2})^4 + 15 (a_{x1} c_{y2} - a_{y1} c_{y2})^4 + 15 (a_{x1} c_{y2} - a_{y1} c_{y2})^4 + 15 (a_{x1} c_{y2} - a_{y1} c_{y2}$ $(a_{y1} d_{x2})^2 + 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1})^2 +$ $6(a_{x1}b_{y1} - a_{y1}b_{x1})^{2}(b_{x1}b_{y2} - b_{x2}b_{y1})^{2}(b_{x1}d_{y1} - b_{y1}d_{x1})^{2} - 24(a_{x1}b_{y1} - a_{y1}b_{x1})^{2}(a_{y2}b_{x1} - a_{y1}b_{$ $(a_{x2} b_{y1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^{2} (b_{x1} b_{y2} - b_{y1} d_{x2}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^{2} (b_{x1} b_{y2} - b_{y1} d_{x2}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^{2} (b_{x1} b_{y2} - b_{y1} d_{x2}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^{2} (b_{x1} b_{y2} - b_{y1} d_{x2}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^{2} (b_{x1} b_{y2} - b_{y1} d_{x2}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^{2} (b_{x1} b_{y2} - b_{y1} d_{x2}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^{2} (b_{x1} b_{y2} - b_{y1} d_{x2}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^{2} (b_{x1} b_{y2} - b_{y1} d_{x2}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^{2} (b_{x1} b_{y2} - b_{y1} d_{x2}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^{2} (b_{x1} b_{y2} - b_{y1} d_{x2}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^{2} (b_{x1} b_{y2} - b_{y1} d_{x2}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^{2} (b_{x1} b_{y2} - b_{y1} d_{x2}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^{2} (b_{x1} b_{y2} - b_{y1} d_{x2}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^{2} (b_{x1} b_{y2} - b_{y1} d_{x2}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^{2} (b_{x1} b_{y2} - b_{y1} d_{x2}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^{2} (b_{x1} b_{y2} - b_{y1} d_{x2}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^{2} (b_{x1} b_{y2} - b_{y1} d_{x2}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^{2} (b_{x1} b_{y2} - b_{y1} d_{x2}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^{2} (b_{x1} b_{y2} - b_{y1} d_{x2}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^{2} (b_{x1} b_{y2} - b_{y1} d_{x2}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^{2} (b_{x1} b_{y2} - b_{y1} d_{x2}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^{2} (b_{x1} b_{y2} - b_{y1} d_{x2}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^{2} (b_{x1} b_{x1} - a_{y1} b_{x1})^{$ $(b_{x2} b_{y1})^2 (b_{x1} d_{y1} - b_{y1} d_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} c_{y2} - b_{y1} d_{x2}) - 12 (a_{y1} b_{y1} - a_{y1} b_{y1})^2 (a_{y1} b_{y2} - b_{y2} b_{y1}) (a_{y1} c_{y2} - b_{y1} d_{y2}) - 12 (a_{y1} b_{y1} - a_{y1} b_{y1})^2 (a_{y1} b_{y2} - b_{y2} b_{y1}) (a_{y1} c_{y2} - b_{y1} d_{y2}) - 12 (a_{y1} b_{y1} - a_{y1} b_{y1})^2 (a_{y1} b_{y2} - b_{y2} b_{y1}) (a_{y1} c_{y2} - a_{y1} b_{y1})^2 (a_{y1} c_{y1} c_{y2} - a_{y1} b_{y1})^2 (a_{y1} c_{y2} - a_{y1} b_{y1} c_{y2})^2 (a_{y1} c_{y1} c_{y2} - a_{y1} b_{y1} c_{y2})^2 (a_{y1} c_{y1} c_{y2} - a_{y1} c_{y1} c_{y2})^2 (a_{y1} c_{y1} c_{y2} - a_{y1} c_{y2} c_{y1} c_{y2})^2 (a_{y1} c_{y1} c_{y2} c_{y2$ $(b_{y1} c_{x2})^2 (b_{x1} d_{y1} - b_{y1} d_{x1}) + 2 (a_{x1} c_{y1} - a_{y1} c_{x1})^4 (a_{y2} c_{x1} - a_{x2} c_{y1}) (c_{x1} c_{y2} - c_{x2} c_{y1}) +$ $12\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{y2}\,b_{x1}-a_{x2}\,b_{y1}\right)\left(b_{x1}\,c_{y2}-b_{y1}\,c_{x2}\right)\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)^{2}+\left(a_{x1}\,c_{y1}-a_{y2}\,b_{y1}\,d_{y2}\right)^{2}$ $(a_{y1} c_{x1})^4 (b_{y2} c_{x1} - b_{x2} c_{y1})^2 + 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} b_{y2} - b_{x2} b_{y1})^2 (b_{x1} d_{y2} - b_{y1} d_{x2})^2 +$ $12\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(b_{x1}\,b_{y2}-b_{x2}\,b_{y1}\right)\left(b_{x1}\,c_{y2}-b_{y1}\,c_{x2}\right)^{2}\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)+\left(a_{x1}\,b_{y1}-b_{y1}\,d_{x2}\right)^{2}$ $(a_{y1} b_{x1})^2 (b_{x1} c_{y2} - b_{y1} c_{x2})^4 + 21 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (c_{x1} d_{y1} - c_{y1} d_{x1})^2 + (c_{x1} d_{$ $3(a_{x1}b_{y1}-a_{y1}b_{x1})^{2}(a_{x1}d_{y1}-a_{y1}d_{x1})^{2}(b_{y2}c_{x1}-b_{x2}c_{y1})^{2}+6(a_{x1}c_{y1}-a_{y1}c_{x1})^{2}(a_{x1}d_{y1}-a_{y1}c_{x1})^{2}$ $(a_{y1} d_{x1})^2 (b_{x1} b_{y2} - b_{x2} b_{y1})^2 + 21 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (c_{x1} d_{y2} - c_{y1} d_{x2})^2 + (c_{x1} d_{$ $(3(a_{x1}b_{y1} - a_{y1}b_{x1})^2(a_{x1}d_{y2} - a_{y1}d_{x2})^2(b_{y2}c_{x1} - b_{x2}c_{y1})^2 + 6(a_{x1}c_{y1} - a_{y1}c_{x1})^2(a_{x1}d_{y2} - a_{y1}d_{x2})^2$ $(a_{y1} d_{x2})^2 (b_{x1} b_{y2} - b_{x2} b_{y1})^2 + 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (c_{x1} c_{y2} - c_{x2} c_{y1})^2 +$ $(a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} c_{y1} - b_{y1} c_{x1})^2 (b_{y2} c_{x1} - b_{x2} c_{y1})^2 + 12 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{x1} - a_{y1} d_{x1})^2 ($ $(a_{y1} d_{x1})^3 (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) + 20 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^3 (b_{x1} b_{y2} - a_{y1} d_{x1})^3 (a_{y1} d_{y1} - a_{y1} d_{y1})^3 (a_{y2} b_{y1} - a_{y$ $(b_{x2} b_{y1})^2 - 96 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^3 (c_{x1} c_{y2} - c_{x2} c_{y1}) - (c_{x1} c_{y2} - c_{x2} c_{y2}) - (c_{x2} c_{y1} - c_{y2} c_{y2}) - (c_{x2} c_{y2} - c_$ $24\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)^{3}\left(b_{y2}\,c_{x1}-b_{x2}\,c_{y1}\right)-40\left(a_{x1}\,a_{y2}-a_{y1}\,b_{x2}\right)^{3}$ $a_{x2}\,a_{y1})\,(a_{x1}\,c_{y2}-a_{y1}\,c_{x2})\,(a_{x1}\,d_{y1}-a_{y1}\,d_{x1})^3\,(b_{x1}\,c_{y1}-b_{y1}\,c_{x1})-36\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})\,(a_{x1}\,d_{y1}-a_{y1}\,d_{x1})^3$ $(a_{u1} d_{x1})^2 (a_{x1} d_{u2} - a_{u1} d_{x2}) (a_{u2} b_{x1} - a_{x2} b_{u1}) (b_{x1} c_{u2} - b_{u1} c_{x2}) - 18 (a_{x1} b_{u1} - a_{u1} b_{x1}) (a_{x1} d_{u1} - a_{u1} b_{x1}) (a_{x2} d_{u1} - a_{u2} d_{u2}) - 18 (a_{x2} d_{u2} - a_{u1} d_{u2}) (a_{x2} d_{u2} - a_{u2} d_{u2}) (a_{x2} d_{u2} - a_{u2} d_{u2}) - 18 (a_{x2} d_{u2} - a_{u1} d_{u2}) (a_{x2} d_{u2} - a_{u2} d_{$ $(a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} b_{y2} - b_{x2} b_{y1})^2 + 96 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} b_{x1}) (a_$ $(a_{x1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (c_{x1} c_{y2} - c_{x2} c_{y1}) + 144 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y1} - a_{y1} b_{x2}) (a_{x1} d_{y1} - a_{y1} b_{x2}) (a_{x1} d_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y1} - a_{y1} b_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x2}) (a_{$ $(a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{y2} c_{x1} - b_{x2} c_{y1}) + 48 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y1} - a_{y1} c_{x2}) (a_{y1} d_{y2} - a_{y1} d_{y2}) (a_{y2} c_{y1} - a_{y2} c_{y1}) + 48 (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y1} c_{y1} - a_{y1} c_{y1}) (a_{y1} d_{y2} - a_{y1} d_{y2}) (a_{y2} c_{y1} - a_{y2} c_{y1}) + 48 (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y1} c_{y1} - a_{y1} c_{y1}) (a_{y2} c_{y1} - a_{y2} c_{y1}) + 48 (a_{y2} a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y2} a_{y1} a_{y2} - a_{y2} a_{y2}) (a_{y2} a_{y1} a_{y2} - a_{y2} a_{y2}) (a_{y2} a_{y2} a_{$ $(a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} c_{y2} - b_{y1} c_{x2}) + 36 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x$

 $(a_{y1} d_{x2})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) + 18 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) + 18 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x1})$ $a_{y1} d_{x2}$) $^{2} (b_{x1} b_{y2} - b_{x2} b_{y1})^{2} - 96 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y2} a_{y1}) (a_{y1} b_{y1} - a_{y1} b_{y1}) (a_{y1} d_{y2} - a_{y1} d_{y1}) (a_{y1} d_{y2} - a_{y1} d_{y1}) (a_{y1} d_{y2} - a_{y1} d_{y1}) (a_{y1} d_{y1} - a_{y1} d_{y1}) (a_{y1} d_{y2} - a_{y1} d_{y1}) (a_{y1} d_{y1} - a_{y1} d_{y1$ $(a_{y1} d_{x2})^2 (c_{x1} c_{y2} - c_{x2} c_{y1}) - 144 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2})$ $(a_{y1}, d_{y2})^2 (b_{y2}, c_{x1} - b_{x2}, c_{y1}) - 48 (a_{x1}, a_{y2} - a_{x2}, a_{y1}) (a_{x1}, c_{y1} - a_{y1}, c_{x1}) (a_{x1}, d_{y1} - a_{y1}, d_{x1}) (a_{x1}, d_{y2} - a_{y2}, a_{y1}) (a_{y1}, c_{y1} - a_{y1}, c_{y1}) (a_{y1}, c_{y1}, c_{y1}) (a_{y1}, c_{y1}, c_{y1}$ $a_{y1}\,d_{x2})^2\,(b_{x1}\,c_{y2}-b_{y1}\,c_{x2})-12\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})\,(a_{x1}\,d_{y2}-a_{y1}\,d_{x2})^3\,(a_{y2}\,b_{x1}-a_{x2}\,b_{y1})\,(b_{x1}\,c_{y2}-a_{y1}\,d_{x2})^3$ $b_{u1} c_{x2}$) $-20 (a_{x1} b_{u1} - a_{u1} b_{x1}) (a_{x1} d_{u2} - a_{u1} d_{x2})^3 (b_{x1} b_{u2} - b_{x2} b_{u1})^2 + 96 (a_{x1} a_{u2} - a_{x2} a_{u1}) (a_{x1} b_{u1} - a_{u2} a_{u2}) (a_{x1} b_{u2} - a_{u2} a_{u2}) (a_{x2} b_{u2} - a_{u2} a_{u2}$ $a_{y1} b_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2})^3 (c_{x1} c_{y2} - c_{x2} c_{y1}) + 24 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^3 (a_{x1} d_{y2} - a_{y1} d_{x$ $(a_{y1} d_{x2})^3 (b_{y2} c_{x1} - b_{x2} c_{y1}) + 40 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^3 (b_{x1} c_{y1} - a_{y1} d_{x2})^3 (a_{y1} d_{y2} - a_{y1} d_{y2})^3 (a_{y1} d_{y2} - a_{y1} d_{y2} - a_{y1} d_{y2})^3 (a_{y1} d_{y2} - a_{y1} d_{y2} - a_{y1} d_{y2})^3 (a_{y1} d_{y2} - a_{y1} d_{y2} - a_{y1} d_{y2})^3 (a_{y1}$ $b_{y1}\,c_{x1}) + 24\left(a_{x1}\,a_{y2} - a_{x2}\,a_{y1}\right)\left(a_{x1}\,c_{y1} - a_{y1}\,c_{x1}\right)^2\left(a_{x1}\,c_{y2} - a_{y1}\,c_{x2}\right)\left(a_{x1}\,d_{y1} - a_{y1}\,d_{x1}\right)\left(c_{x1}\,d_{y1} - a_{y1}\,d_{x1}\right)$ $(c_{y1} d_{x1}) + 12 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1}) (c_{x1} d_{y1} - c_{y1} d_{x1}) - (c_{x1} d_{y1} - c_$ $12\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{2}\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(c_{x1}\,d_{y1}-c_{y1}\,d_{x1}\right) (6(a_{x1}b_{y2}-a_{y1}b_{x2})^2(a_{x1}c_{y1}-a_{y1}c_{x1})^2(a_{x1}d_{y2}-a_{y1}d_{x2})(c_{x1}d_{y1}-c_{y1}d_{x1})-6(a_{x1}b_{y2}-a_{y1}d_{x2})$ $(a_{u1} b_{u2}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (c_{x1} d_{y1} - c_{y1} d_{x1}) + 24 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} b_{x1}) (a_$ $a_{y1}\,c_{x1})^2\,(a_{y2}\,b_{x1}-a_{x2}\,b_{y1})\,(b_{x1}\,c_{y2}-b_{y1}\,c_{x2})\,(c_{x1}\,d_{y1}-c_{y1}\,d_{x1}) + 12\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})\,(a_{x1}\,c_{y1}-a_{y1}\,b_{x2})$ $(a_{u1} c_{x1})^2 (b_{x1} b_{y2} - b_{x2} b_{y1})^2 (c_{x1} d_{y1} - c_{y1} d_{x1}) - 12 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} b_{y1})$ $(a_{x1} c_{x1})^2 (c_{x1} c_{y2} - c_{x2} c_{y1}) (c_{x1} d_{y1} - c_{y1} d_{x1}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} b_{x2}) (a_{x$ $(a_{u1} c_{x1})^2 (b_{u2} c_{x1} - b_{x2} c_{y1}) (c_{x1} d_{y1} - c_{y1} d_{x1}) - 18 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} b_{x2}) (a_{x$ $(a_{y1} c_{x2})^2 (b_{x1} d_{y1} - b_{y1} d_{x1})^2 - 12 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} d_{y1} - b_{y1} d_{x1})^2 (c_{x1} c_{y2} - a_{y1} a_{y1})^2 (a_{y1} c_{y2} - a_{y2} a_{y1}) (a_{y1} c_{y2} - a_{y2} a_{y1}) (a_{y1} c_{y2} - a_{y2} a_{y1})^2 (a_{y1} c_{y2} - a_{y2} a_{y2} a_{y1})^2 (a_{y1} c_{y2} - a_{y2} a_{y$ $(c_{x2} c_{y1}) - 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1})^2 (b_{y2} c_{x1} - b_{x2} c_{y1}) +$ $36\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)^{2}\left(b_{x1}\,d_{y1}-b_{y1}\,d_{x1}\right)\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)+$ $24\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(b_{x1}\,d_{y1}-b_{y1}\,d_{x1}\right)\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)\left(c_{x1}\,c_{y2}-c_{x2}\,c_{y1}\right)+$ $24 \left(a_{x1} \, b_{y1} - a_{y1} \, b_{x1}\right)^2 \left(a_{x1} \, b_{y2} - a_{y1} \, b_{x2}\right) \left(b_{x1} \, d_{y1} - b_{y1} \, d_{x1}\right) \left(b_{x1} \, d_{y2} - b_{y1} \, d_{x2}\right) \left(b_{y2} \, c_{x1} - b_{x2} \, c_{y1}\right) + \\ \left(a_{x1} \, b_{y1} - a_{y1} \, b_{x1}\right)^2 \left(a_{x1} \, b_{y2} - a_{y1} \, b_{x2}\right) \left(a_{x1} \, b_{y1} - a_{y1} \, b_{x1}\right) \left(a_{x1} \, b_{y2} - a_{y1} \, b_{x2}\right) \left(a_{x1} \, b_{y1} - a_{y1} \, b_{x1}\right) \left(a_{x1} \, b_{y2} - a_{y1} \, b_{x2}\right) \left(a_{x1} \, b_{y2} - a_{y1} \, b_{x2}\right) \left(a_{x1} \, b_{y1} - a_{y1} \, b_{x1}\right) \left(a_{x1} \, b_{y2} - a_{y1} \, b_{x2}\right) \left(a_{x1} \, b_{y1} - a_{y1} \, b_{x2}\right) \left(a_{x1} \, b_{y2} 24 \left(a_{x1} \, b_{y1} - a_{y1} \, b_{x1}\right) \left(a_{x1} \, b_{y2} - a_{y1} \, b_{x2}\right) \left(a_{x1} \, c_{y1} - a_{y1} \, c_{x1}\right) \left(b_{x1} \, b_{y2} - b_{x2} \, b_{y1}\right) \left(b_{x1} \, d_{y1} - b_{y1} \, d_{x1}\right) \left(b_{x1} \, d_{y2} - b_{y1} \, d_{y1}\right) \left(a_{y1} \, d_{y2} - a_{y1} \, d_{y1}\right) \left(a_{y1} \, d_{y2}\right) \left(a_{y1} \, d_{y1}\right) \left(a_{y1} \, d_{y1}\right) \left(a_{$ $b_{y1} d_{x2}$) + 24 $(a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (c_{x1} d_{y2} - a_{y1} c_{x2})$ $c_{y1} d_{x2}) + 12 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (c_{x1} d_{y2} - c_{y1} d_{x2}) +$ $6\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{2}\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)^{2}\left(c_{x1}\,d_{y2}-c_{y1}\,d_{x2}\right)-24\left(a_{x1}\,b_{y1}-a_{y1}\,c_{x2}\right)^{2}$ $(a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) (c_{x1} d_{y2} - c_{y1} d_{x2}) - 12 (a_{x1} b_{y1} - a_{y1} c_{y2}) (a_{y2} b_{y1} c_{y2} - a_{y1} c_{y2}) - 12 (a_{y2} b_{y1} c_{y2} - a_{y1} c_{y2}) (a_{y2} b_{y1} c_{y2} c_{y1} c_{y2}) (a_{y2} b_{y1} c_{y2} c_{y1} c_{y2} c_{y1} c_{y2}) (a_{y2} b_{y1} c_{y2} c_{y1} c_{y2} c_{y1} c_{y2} c_{y2} c_{y1} c_{y2}) (a_{y2} c_{y1} c_{y$ $a_{u1} b_{x1}) (a_{x1} c_{u1} - a_{u1} c_{x1})^2 (b_{x1} b_{u2} - b_{x2} b_{u1})^2 (c_{x1} d_{u2} - c_{u1} d_{x2}) + 12 (a_{x1} a_{u2} - a_{x2} a_{u1}) (a_{x1} b_{u1} - a_{u1} b_{u2}) + 12 (a_{x1} a_{u2} - a_{x2} a_{u1}) (a_{x1} b_{u1} - a_{u1} b_{u1}) + 12 (a_{x1} a_{u2} - a_{u2} a_{u1}) (a_{x1} b_{u1} - a_{u1} b_{u1}) + 12 (a_{x1} a_{u2} - a_{u2} a_{u1}) + 12 (a_{x1} a_{u2} - a_{u2} a_{u1}) (a_{x1} a_{u2} - a_{u2} a_{u2}) (a_{x1} a_{u2}$ $a_{y1}\,b_{x1})\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})^2\,(c_{x1}\,c_{y2}-c_{x2}\,c_{y1})\,(c_{x1}\,d_{y2}-c_{y1}\,d_{x2})+12\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})\,(a_{x1}\,b_{y2}-a_{y1}\,b_{x2})+12\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x2})+12\,(a_{x1}\,b_{y2}-a_{y1}\,b_{x2})+12\,(a_{x1}\,b_{y2}-a_{y1}\,b_{x2})+12\,(a_{x2}\,b_{y2}-a_{y1}\,b_{x2})+12\,(a_{x2}\,b_{y2}-a_{y1}\,b_{x2})+12\,(a_{x2}\,b_{y2}-a_{y1}\,b_{x2})+12\,(a_{x2}\,b_{y2}-a_{y1}\,b_{x2})+12\,(a_{x2}\,b_{y2}-a_{y1}\,b_{x2})+12\,(a_{x2}\,b_{y2}-a_{y2}\,b_{x2})+12\,(a_{x2}\,b_{y2}-a_{y2}\,b_{x2})+12\,(a_{x2}\,b_{y2}-a_{y2}\,b_{x2})+12\,(a_{x2}\,b_{y2}-a_{y2}\,b_{x2})+12\,(a_{x2}\,b_{y2}-a_{y2}\,b_{x2})+12\,(a_{x2}\,b_{y2}-a_{y2}\,b_{x2})+12\,(a_{x2}\,b_{y2}-a_{y2}\,b_{x2})+12\,(a_{x2}\,b_{y2}-a_{y2}\,b_{x2})+12\,(a_{x2}\,b_{y2}-a_{y2}\,b_{x2})+12\,(a_{x2}\,b_{y2}-a_{y2}\,b_{x2})+12\,(a_{x2}\,b_{y2}-a_{y2}\,b_{x2})+12\,(a_{x2}\,b_{y2}-a_{y2}\,b_{x2})+12\,(a_{x2}\,b_{y2}-a_{y2}\,b_{x2})+12\,(a_{x2}\,b_{y2}-a_{y2}\,b_{x2})+12\,(a_{x2}\,b_{y2}-a_{y2}\,b_{x2})+12\,(a_{x2}\,b_{y2}-a_{y2}\,b_{x2})+12\,(a_{x2}\,b_{y2}-a_{y2}\,b_{x2})+12\,(a_{x2}\,b_{y2}-a_{y2}\,b_{x2})+12\,(a_{x2}\,b_{y2}-a_{y2}\,b_{y2}-a_{y2}\,b_{y2})+12\,(a_{x2}\,b_{y2}-a_{y2}\,b_{y2}-a_{y2}\,b_{y2})+12\,(a_{x2}\,b_{y2}-a_{y2}\,b$ $(a_{u1} b_{u2}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (b_{u2} c_{x1} - b_{x2} c_{y1}) (c_{x1} d_{y2} - c_{y1} d_{x2}) - 18 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{y1} c_{y1} c_{y1} c_{y1} c_{y2} - a_{y1} c_{y1}) (a_{y1} c_{y1} c$ $a_{y1}\,b_{x2})\,(a_{x1}\,c_{y2}-a_{y1}\,c_{x2})^2\,(b_{x1}\,d_{y2}-b_{y1}\,d_{x2})^2-12\,(a_{x1}\,a_{y2}-a_{x2}\,a_{y1})\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})^2\,(b_{x1}\,d_{y2}-a_{y2}\,a_{y1})^2$ $b_{y1} d_{x2})^2 (c_{x1} c_{y2} - c_{x2} c_{y1}) - 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (b_{x1} d_{y2} - b_{y1} d_{x2})^2 (b_{y2} c_{x1} - a_{y1} b_{x2})^2 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x2} b_{y2} - a_{y2} b_{y2} - a_$ $(b_{x2} c_{y1}) - 36 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (c_{x1} d_{y1} - c_{y1} d_{x1}) +$ $144\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)^{2}\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)\left(c_{x1}\,d_{y1}-c_{y1}\,d_{x1}\right)+$ $36\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)\left(c_{x1}\,c_{y2}-c_{x2}\,c_{y1}\right)\left(c_{x1}\,d_{y1}-c_{y1}\,d_{x1}\right)+$ $36\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)\left(b_{x1}\,b_{y2}-b_{x2}\,b_{y1}\right)\left(c_{x1}\,d_{y1}-a_{y1}\,d_{x2}\right)$ $(c_{y1} d_{x1}) - 36 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} c_{y2} - a_{y1} d_{x1}) (a_{y2} b_{x1} - a_{y2} b_{y1}) (a_{y1} c_{y2} - a_{y1} d_{x1}) (a_{y2} b_{x1} - a_{y2} b_{y1}) (a_{y2} b_{y1} - a_{y2} b_{y1}) (a_{y2} b_{y2} - a_{y2} b_{y2}) (a_{y2}$ $b_{y1}\,c_{x2})\,(b_{x1}\,d_{y1}-b_{y1}\,d_{x1})-12\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})\,(a_{x1}\,d_{y1}-a_{y1}\,d_{x1})\,(b_{x1}\,b_{y2}-a_{y1}\,d_{x1})$ $(b_{x2}\,b_{y1})^2\,(b_{x1}\,d_{y1}-b_{y1}\,d_{x1})-20\,(a_{x1}\,b_{y2}-a_{y1}\,b_{x2})^2\,(a_{x1}\,d_{y1}-a_{y1}\,d_{x1})^3\,(b_{x1}\,c_{y1}-b_{y1}\,c_{x1})+\\$ $24\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)^{2}\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)^{2}\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(b_{x1}\,c_{y1}-b_{y1}\,c_{x1}\right)+60\left(a_{x1}\,b_{y2}-a_{y1}\,d_{x2}\right)^{2}$ $(a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (b_{x1} c_{y1} - b_{y1} c_{x1}) - 96 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y1} - a_{y$

 $(a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x1}) (c_{x1} d_{y2} - c_{y1} d_{x2}) - 84 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} d_{x2}) - 84 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} d_{x2}) - 84 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} d_{x2}) - 84 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y1} - a_{y1} d_{x2}) - 84 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y1} - a_{y1} d_{x2}) - 84 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{x2}) - 84 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{x2}) - 84 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{x2}) - 84 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{x2}) - 84 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{x2}) - 84 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{x2}) - 84 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{x2}) - 84 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{x2}) - 84 (a_{x1} a_{y2} - a_{y1} a_{x2}) - 84 (a_{x1} a_{y1} - a_{y1} a_{x2}) - 84 (a_{x1} a_{y2} - a_{y1} a_{x2}) - 84 (a_{x1} a_{y1} - a_{y1} a_{x2$ $(a_{y1} b_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1}) (c_{x1} c_{y2} - c_{x2} c_{y1}) (c_{x1} d_{y2} - c_{y1} d_{x2}) - 84 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x2} b_{y2} - a_{y2} b_{x2}) - 84 (a_{x2} b_{y2} - a_{y1} b_{x2})^2 (a_{x2} b_{y2} - a_{y2} b_{y2} - a_{y2} b_{y2})^2 (a_{x2} b_{y2} - a_{y2} b_{y2} - a_{y2} b_{y2})^2 (a_{x2} b_{y2} - a_{y2} b_{y2} (a_{y1} b_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (b_{y2} c_{x1} - b_{x2} c_{y1}) (c_{x1} d_{y2} - c_{y1} d_{x2}) + 42 (a_{x1} b_{y1} - a_{y1} b_{x1})^{2} (a_{x1} b_{y2} - a_{y1} b_{x2})^{2} (a_{x1} b_{y2} - a_$ $a_{y1}b_{x2}$) $(a_{x1}c_{y1} - a_{y1}c_{x1})(b_{y2}c_{x1} - b_{x2}c_{y1})(d_{x1}d_{y2} - d_{x2}d_{y1}) + 36(a_{x1}b_{y1} - a_{y1}b_{x1})(a_{x1}b_{y2} - d_{y2}d_{y1})$ $(a_{y1} b_{x2})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (c_{x1} d_{y2} - c_{y1} d_{x2}) + 144 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} b_{x2}) (a$ $(a_{u1} c_{x2})^2 (a_{x1} d_{u2} - a_{u1} d_{x2}) (c_{x1} d_{u2} - c_{u1} d_{x2}) + 36 (a_{x1} a_{u2} - a_{x2} a_{u1}) (a_{x1} b_{u1} - a_{u1} b_{x1})^2 (a_{x1} d_{u2} - a_{u2} a_{u1}) (a_{x2} b_{u2} - a_{u2} a_{u2}) (a_{x2} d_{u2} - a_{u2} a_{u2}) (a_$ $(a_{y1} d_{x2}) (c_{x1} c_{y2} - c_{x2} c_{y1}) (c_{x1} d_{y2} - c_{y1} d_{x2}) + 36 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} b_{x2}) (a_{x1}$ $a_{y1} c_{x1}$) $(a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} b_{y2} - b_{x2} b_{y1}) (c_{x1} d_{y2} - c_{y1} d_{x2}) - 36 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} b_{x2}) - 36 (a_{x1} b_{y1} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} b_{x2}) - 36 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} b_{x$ $a_{y1} c_{x1}$) $(a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x1} d_{y2} - b_{y1} d_{x2}) - 12 (a_{x1} b_{y1} - b_{y1} d_{y2}) - 12 (a_{x2} b_{y1} - a_{y2} b_{y1}) (a_{y2} b_{y1} c_{y2}) (a_{y2} b_{y1} c_{y2}) (a_{y2} b_{y1} c_{y2}) - 12 (a_{y2} b_{y1} c_{y2}) (a$ $(a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} b_{y2} - b_{x2} b_{y1})^2 (b_{x1} d_{y2} - b_{y1} d_{x2}) - 24 (a_{x1} b_{y2} - b_{y1} d_{x2}) - 24 (a_{x1$ $(a_{x1} b_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (b_{x1} c_{y1} - b_{y1} c_{x1}) + 20 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x2})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x2})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x2})^2 (a_{x1} d_{y2} - a_$ $(a_{x1} d_{x2})^3 (b_{x1} c_{y1} - b_{y1} c_{x1}) + 60 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (b_{x1} c_{y1} - a_{y1} d_{x2})^2 (b_{x1} c_{y1} - a_{y1} d_{x2})^2 (b_{x1} c_{y1} - a_{y1} d_{x2})^2 (a_{x1} d_{y2} - a_$ $(b_{y1} c_{x1}) - 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) (c_{x1} d_{y1} - b_{y1} c_{x2}) (c_{x1} d_{y1} - b_{y1} c_{x2}) (c_{y1} d_{y1} - b_{y1} c_{y1}) (c_{y1} c_{y2} - b_{y1} c_{y2}) (c_{y1} d_{y1} - b_{y1} c_{y1}) (c_{y1} c_{y2} - b_{y1} c_{y2}) (c_{y1} d_{y1} - b_{y1} c_{y1}) (c_{y1} c_{y2} - b_{y1} c_{y2}) (c_{y1} d_{y1} - b_{y1} c_{y1}) (c_{y1} c_{y2} - b_{y1} c_{y2}) (c_{y1} d_{y1} - b_{y1} c_{y1}) (c_{y1} c_{y2} - b_{y1} c_{y2}) (c_{y1} d_{y1} - b_{y1} c_{y1}) (c_{y1} c_{y2} - b_{y1} c_{y2}) (c_{y1} d_{y1} - b_{y1} c_{y1}) (c_{y1} c_{y2} - b_{y1} c_{y2}) (c_{y1} d_{y1} - b_{y1} c_{y1}) (c_{y1} c_{y2} - b_{y1} c_{y2}) (c_{y1} d_{y1} - b_{y1} c_{y2}) (c_{y1} d_{y1} - b_{y1} c_{y1}) (c_{y1} c_{y1} - b_{y1} c_{y2}) (c_{y1} d_{y1} - b_{y1} c_{y1}) (c_{y1} c_{y1} - b_{y1} c_{y1}) (c_{y1$ $(c_{y1} d_{x1}) - 2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} b_{y2} - b_{x2} b_{y1})^2 (b_{x1} c_{y1} - b_{y1} c_{x1}) (c_{x1} d_{y1} - c_{y1} d_{x1}) +$ $4\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{y2}\,b_{x1}-a_{x2}\,b_{y1}\right)\left(b_{x1}\,c_{y1}-b_{y1}\,c_{x1}\right)\left(b_{x1}\,c_{y2}-b_{y1}\,c_{x2}\right)\left(c_{x1}\,d_{y2}-c_{y1}\,d_{x2}\right)+$ $2\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(b_{x1}\,b_{y2}-b_{x2}\,b_{y1}\right)^{2}\left(b_{x1}\,c_{y1}-b_{y1}\,c_{x1}\right)\left(c_{x1}\,d_{y2}-c_{y1}\,d_{x2}\right)-12\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x1}\right)^{2}$ $(a_{u1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} c_{x1} - a_{x2} c_{y1}) (c_{x1} d_{y1} - c_{y1} d_{x1}) + 48 (a_{x1} b_{y1} - a_{y1} d_{x2}) (a_{y1} c_{y1} d_{y2} - a_{y1} d_{x2}) (a_{y2} c_{y1} - a_{y2} c_{y1}) (c_{y1} d_{y1} - c_{y1} d_{x1}) + 48 (a_{y1} c_{y1} - a_{y1} d_{y2}) (a_{y1} c_{y1} - a_{y1} d$ $(a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) (c_{x1} d_{y1} - c_{y1} d_{x1}) - 36 (a_{x1} b_{y1} - b_{y1} c_{y2}) (a_{y1} c_{y2} - b_{y1} c_{y2}) (a_{y$ $(a_{v1} b_{v1})^2 (a_{v1} b_{v2} - a_{v1} b_{v2}) (a_{v1} c_{v2} - a_{v1} c_{v2}) (c_{v1} c_{v2} - c_{v2} c_{v1}) (c_{v1} d_{v1} - c_{v1} d_{v1}) - 6 (a_{v1} b_{v1} - c_{v2} c_{v2}) (c_{v1} c_{v2} - c_{v2} c_{v1}) (c_{v2} c_{v2} c_{v2}) (c_{v2} c_{v2} c_{v2} c_{v2}) (c_{v2} c_{v2} c_{v2}) (c_{v2} c_{v2} c_{v2} c_{v2} c_{v2}) (c_{v2} c_{v2} c_{v2} c_{v2} c_{v2} c_{v2}) (c_{v2} c_{v2} c_{v2} c_{v2} c_{v2} c_{v2} c_{v2}) (c_{v2} c_{v2} c_{v$ $(a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (b_{y2} c_{x1} - b_{x2} c_{y1}) (c_{x1} d_{y1} - c_{y1} d_{x1}) + 24 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} b_{x1}) (a_$ $a_{y1}\,c_{x1})\,(a_{x1}\,c_{y2}-a_{y1}\,c_{x2})\,(b_{x1}\,b_{y2}-b_{x2}\,b_{y1})\,(b_{x1}\,c_{y2}-b_{y1}\,c_{x2})\,(b_{x1}\,d_{y1}-b_{y1}\,d_{x1})-24\,(a_{x1}\,b_{y1}-b_{y1}\,d_{x2})$ $(a_{x1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (a_{x1} d_{y1} - a_{y1} d_{x1}) (c_{x1} c_{y2} - c_{x2} c_{y1}) - 6 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (a_{x1} d_{y1} - a_{y1} d_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x2})$ $(a_{y1} c_{x2})^4 (c_{x1} d_{y1} - c_{y1} d_{x1}) + 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) (c_{x1} c_{y2} - a_{y1} c_{x1})^2 (a_{y1} c_{y1} c_{y1}$ $(c_{x2} c_{y1}) - 48 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) (c_{x1} d_{y2} - b_{y2} c_{y1}) (c_{y1} c_{y2} - c_{y1} c_{y2}) (c_{y1} c_{y1} c_{y2} - c_{y1} c_{y2}) (c_{y1} c_{y2} - c_{y1} c_{y2}$ $(c_{y1} d_{x2}) + 36 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (c_{x1} c_{y2} - c_{x2} c_{y1}) (c_{x1} d_{y2} - a_{y1} c_{x2}) (c_{x1} c_{y2} - c_{x2} c_{y1}) (c_{x1} d_{y2} - a_{y1} c_{x2}) (c_{x2} c_{y2} - c_{x2} c_{y1}) (c_{x2} c_{y2} - c_{x2} c_{y2}) (c_{x2} c_{y2} - c_{x2} c_{y1}) (c_{x2} c_{y2} - c_{x2} c_{y2}) (c_{x$ $(c_{y1} d_{x2}) + 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (b_{y2} c_{x1} - b_{x2} c_{y1}) (c_{x1} d_{y2} - c_{y1} d_{x2}) +$ $24\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)^{3}\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(c_{x1}\,c_{y2}-c_{x2}\,c_{y1}\right)+6\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x2}\right)\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)^{3}$ $(a_{u1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^4 (c_{x1} d_{y2} - c_{y1} d_{x2}) + 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (a_{y2} c_{x1} - a_{y1} d_{x2})^2$ $a_{x2} c_{y1} (c_{x1} c_{y2} - c_{x2} c_{y1}) + 10 (a_{x1} c_{y2} - a_{y1} c_{x2})^4 (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} c_{y1} - b_{y1} c_{x1}) +$ $10\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)^{3}\left(b_{x1}\,c_{y2}-b_{y1}\,c_{x2}\right)\left(b_{x1}\,d_{y1}-b_{y1}\,d_{x1}\right)-10\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x2}\right)$ $(a_{x1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x1} d_{y2} - b_{y1} d_{x2}) - 24 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} b_{x2}) (a_{y1} c_{y2} - a_{y1} c_{y2})^3 (a_{y1} c_{y2} - a_{y1} c_{y2}) (a_$ $a_{u1} c_{x1}$) $(a_{x1} c_{u2} - a_{u1} c_{x2}) (b_{x1} b_{u2} - b_{x2} b_{u1}) (b_{x1} c_{u2} - b_{u1} c_{x2}) (b_{x1} d_{u2} - b_{u1} d_{x2}) - 4 (a_{x1} b_{u1} - b_{u2} b_{u1}) (a_{x1} c_{u2} - b_{u1} c_{x2}) (a_{x2} c_{u2} - b_{u1} c_{x2}) (a_{x2} c_{u2} - b_{u1} c_{x2}) - 4 (a_{x2} c_{u2} - b_{u1} c_{x2}) (a_{x2} c_{u2} - b_{u2} c_{u2}) (a_$ $(a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) (b_{x1} c_{y1} - b_{y1} c_{x1}) (c_{x1} c_{y2} - c_{x2} c_{y1}) + 6 (a_{x1} b_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) + 6 (a_{x1} b_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) + 6 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{x1} - a_{$ $(a_{y1} b_{x1})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) (c_{x1} c_{y2} - c_{x2} c_{y1}) - 12 (a_{x1} b_{y1} - b_{y1} c_{x2}) (a_{y1} c_{y2} - c_{y2} c_{y1}) - 12 (a_{y1} c_{y1} - c_{y2} c_{y1}) - 12 (a_{y1} c_{y2} - c_{y2} c_{y1}) - 12 (a_{y1} c_{y1} - c_{y2} c_{y1}) - 12 (a_{y1} c_{y2} - c_{y2} c_{y1}) - 12 (a_{y1} c_{y1} - c_{y1} c_{y2} - c_{y2} c_{y1}) - 12 (a_{y1} c_{y1} - c_{y1} c_{y2} - c_{y2} c_{y1}) - 12 (a_{y1} c_{y1} - c_{y1} c_{y2} - c_{y2} c_{y1}) - 12 (a_{y1} c_{y1} - c_{y1} c_{y2} - c_{y2} c_{y1}) - 12 (a_{y1} c_{y1} - c_{y1} c_{y2} - c_{y2} c_{y1}) - 12 (a_{y1} c_{y1} - c_{y1} c_{y2} - c_{y2} c_{y1}) - 12 (a_{y1} c_{y1} - c_{y1} c_{y2} - c_{y2} c_{y1}) - 12 (a_{y1} c_{y1} - c_{y1} c_{y2} - c_{y2} c_{y1}) - 12 (a_{y1} c_{y1} - c_{y1} c_{y2} - c_{y2} c_{y1}) - 12 (a_{y1} c_{y1} - c_{y1} c_{y2} - c_{y2} c_{y1}) - 12 (a_{y1} c_{y1} - c_{y2} c_{y2} - c_{y2} c_{y1}) - 12 (a_{y1} c_{y2} - c_{y2} c_{y2} - c_{y2} c_{y2}) - 12 (a_{y1} c_{y2} - c_{y2} c_{y2} - c_{y2} c_{y2}) - 12 (a_{y1} c_{y2} - c_{y2} c_{y2} - c_{y2} c_{y2}) - 12 (a_{y1} c_{y2} - c_{y2} c_{y2} - c_{y2} c_{y2}) - 12 (a_{y1} c_{y2} - c_{y2} c_{y2} - c_{y2} c_{y2}) - 12 (a_{y1} c_{y2} - c_{y2} c_{y2} - c_{y2} c_{y2}) - 12 (a_{y1} c_{y2} - c_{y2} c_{y2} - c_$ $(a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (b_{x1} c_{y1} - b_{y1} c_{x1}) (c_{x1} c_{y2} - c_{x2} c_{y1})^2 + 2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{y2} c_{x1} - a_{y1} b_{x1})^2 (a_{y1} c_{y1} - a_{y1} b_{x1})^2 (a_{y2} c_{x1} - a_{y1} b_{x1})^2 (a_{y1} c_{y1} - a_{y1} b_{x1})^2 (a_{y2} c_{x1} - a_{y1} b_{x1})^2 (a_{y1} c_{y1} - a_{$ $a_{x2} c_{y1}) (b_{x1} c_{y1} - b_{y1} c_{x1})^2 (c_{x1} c_{y2} - c_{x2} c_{y1}) + 2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (c_{x1} c_{y2} - a_{y$ $(c_{x2} c_{y1}) + 12 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (c_{x1} c_{y2} - c_{x2} c_{y1})^2 - (c_{x1} c_{y1} - a_{y1} c_{x1})^2 (c_{x1} c_{y2} - c_{x2} c_{y1})^2$ $24\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)^{2}\left(b_{x1}\,b_{y2}-b_{x2}\,b_{y1}\right)\left(b_{y2}\,d_{x1}-b_{x2}\,d_{y1}\right)-4\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}$ $(a_{y1} b_{x1})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{x1} d_{y1} - b_{y1} d_{x1}) (b_{y2} c_{x1} - b_{x2} c_{y1}) + 6 (a_{x1} b_{y2} - b_{y2} c_{y1}) + 6 (a_{y1} b_{y2} - b_{y2} c_{y2}) + 6 (a_{y1} b_{y2} c_{y2} - b_{y2} c_{y2}) + 6 (a_{y1} b_{y2} - b_{y2} c_{y2}) + 6 (a_{y1} b_{y2}$ $(a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} d_{y1} - a_{y1} d_{x1}) (b_{y2} d_{x1} - b_{x2} d_{y1}) + 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} b_{y2} - b_{x2} d_{y1})^2 + 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} b_{y2} - b_{x2} d_{y1}) + 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} b_{y2} - b_{x2} d_{y1}) + 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} b_{y2} - b_{x2} d_{y1}) + 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} b_{y2} - b_{x2} d_{y1}) + 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} b_{y2} - b_{x2} d_{y1}) + 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} b_{y2} - b_{x2} d_{y1}) + 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{y1} d_{y1} - b_{y2} d_{y1}) + 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{y1} d_{y1} - b_{y2} d_{y1}) + 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{y1} d_{y1} - b_{y1} d_{y1}) + 4 (a_{x1} b_{y1} - a_{y1} d_{y1})^2 (b_{y1} d_{y1} - b_{y1} d_{y1}) + 4 (a_{x1} d_{y1} - a_{y1} d_{y1})^2 (b_{y1} d_{y1} - b_{y1} d_{y1}) + 4 (a_{x1} d_{y1} - a_{y1} d_{y1}) + 4 (a_{$ $(b_{x2} b_{y1}) (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) (b_{y2} c_{x1} - b_{x2} c_{y1}) - 24 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{y1} b_{y2})^2 (a_{x1} b_{y2} - a_{y1} b_{y1} b_{y2} - a_{y1} b_{y2} b_{y1} b_{y2})^2 (a_{x1} b_{y2} - a_{y1} b_{y2} b_{y2$

 $(a_{y1} b_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} d_{y2} - b_{y1} d_{x2}) (b_{x2} d_{y2} - b_{y2} d_{x2}) + 20 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{y2} c_{x1} - a_{y1} b_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x2} d_{x2} - a_{y1} d_{x2}) (a_{x$ $(a_{x2} c_{y1}) (c_{x1} c_{y2} - c_{x2} c_{y1}) (c_{x1} d_{y2} - c_{y1} d_{x2}) + 10 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (b_{y2} c_{x1} - b_{x2} c_{y1})^2 (c_{x1} d_{y2} - c_{y1} d_{x2})$ $(c_{y1} d_{x2}) - 48 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x1}) (b_{x1} d_{y2} - a_{y1} c_{x2})^2$ $(b_{y1} d_{x2}) - 20 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{y2} c_{x1} - a_{x2} c_{y1}) (c_{x1} c_{y2} - c_{x2} c_{y1}) (c_{x1} d_{y1} - c_{y1} d_{x1}) - (c_{y1} d_{y1} - c_{y1} d_{y1}) - (c_{y1} d_{y1} - c_{y$ $10\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{3}\left(b_{y2}\,c_{x1}-b_{x2}\,c_{y1}\right)^{2}\left(c_{x1}\,d_{y1}-c_{y1}\,d_{x1}\right)-2\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,c_{y1}-a_{y1}\,b_{x1}\right)$ $(a_{u1} c_{x1})^2 (b_{x1} c_{u1} - b_{u1} c_{x1}) (b_{u2} c_{x1} - b_{x2} c_{u1})^2 + 6 (a_{x1} b_{u1} - a_{u1} b_{x1})^2 (a_{x1} c_{u2} - a_{u1} c_{x2})^2 (b_{x1} c_{u2} - a_{u1} c_{u2})^2 (b_{x1} c_{u2} - a_{u2} c_{u2})^2 (b_{x1} c_{u2} - a$ $b_{y1}\,c_{x2})\,(c_{x2}\,d_{y2}-c_{y2}\,d_{x2})+4\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})\,(a_{x1}\,c_{y2}-a_{y1}\,c_{x2})^2\,(b_{x1}\,c_{y1}-b_{y1}\,c_{x1})\,(b_{x1}\,c_{y2}-a_{y2}\,c_{x3})^2$ $(b_{y1} c_{x2})^2 - 6 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x2} d_{y2} - b_{y2} d_{x2}) +$ $6(a_{x1}b_{y1} - a_{y1}b_{x1})^{2}(a_{x1}c_{y2} - a_{y1}c_{x2})^{2}(b_{x1}c_{y2} - b_{y1}c_{x2})(c_{y2}d_{x1} - c_{x2}d_{y1}) + 6(a_{x1}b_{y1} - a_{y1}b_{x1})^{2}(a_{x1}c_{y2} - a_{y1}c_{x2})^{2}(a_{x1}c_{y2} - a_{y1}c_{x2})(a_{x1}c_{y2} - a_{y1}$ $(a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (b_{y2} d_{x1} - b_{x2} d_{y1}) (b_{x2} d_{y2} - b_{y2} d_{x2}) - 6 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} b_{x1}) (a_{$ $(a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (b_{x1} c_{y2} - b_{y1} c_{x2})^3 - 10 (a_{x1} c_{y2} - a_{y1} c_{x2})^4 (a_{x1} d_{y1} - a_{y1} d_{x1}) (b_{x1} c_{y1} - a_{y1} d_{x2})^4$ $b_{y1} c_{x1}$) $-2 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{y2} d_{x1} - b_{x2} d_{y1})^2 + 18 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x1} d_{y2} - a_{y1} d_{x1})^3 (a_{x1} d_{y1} - a_{y1} d_{x1})^3 (a_{x1} d_{y2} - a_{y1} d_{x1})^3 (a_{x1} d_{y2} - a_{y1} d_{x1})^3 (a_{x1} d_{y1} - a_{y1} d_{x1})^3 (a_{x1} d_{y2} - a_{y1} d_{x1})^3 (a_{x1} d_{y1} - a_{y1} d_{x1})^3 (a_{x1} d_{x1} - a_{y1} d_{x1})^3 (a_{x1} d_{x1}$ $(a_{u1} d_{x2}) (b_{x2} d_{y2} - b_{y2} d_{x2})^2 - 2 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{x2} d_{y2} - b_{y2} d_{x2})^2 +$ $6\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{3}\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)\left(b_{y2}\,d_{x1}-b_{x2}\,d_{y1}\right)^{2}-2\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(b_{x1}\,c_{y1}-a_{y1}\,b_{x1}\right)^{2}$ $(b_{y1} c_{x1})^2 (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x2} c_{y2} - b_{y2} c_{x2}) - 8 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) (b_{x1} c_{y1} - a_{y1} b_{x1})^2 (a_{y2} c_{x1} - a_{y2} c_{y1}) (a_{y2} c_{x2} - a_{y2} c_{y1}) (a_{y2} c_{x2} - a_{y2} c_{y2}) (a_{y2} c_{y2} - a_{y2} c_{y2}) (a$ $b_{y1}\,c_{x1})\,(b_{x1}\,c_{y2}-b_{y1}\,c_{x2})\,(b_{x1}\,d_{y1}-b_{y1}\,d_{x1})+72\,(a_{x1}\,a_{y2}-a_{x2}\,a_{y1})\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})\,(a_{x1}\,c_{y1}-a_{y1}\,b_{x2})$ $a_{y1} c_{x1} (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (c_{x2} d_{y2} - c_{y2} d_{x2}) - 72 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} b_{x2}) (a_{x1}$ $a_{y1} c_{x1}$) $(a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{y2} d_{x1} - b_{x2} d_{y1}) - 72 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} d_{x2}) (a_{y1} d_{y2} - a_{y1} d_{y2})$ $(a_{u1} b_{u1}) (a_{u1} c_{u2} - a_{u1} c_{u2}) (a_{u1} d_{u2} - a_{u1} d_{u2})^2 (c_{u1} d_{u1} - c_{u1} d_{u1}) - 144 (a_{u1} b_{u1} - a_{u1} b_{u1}) (a_{u1} b_{u2} - a_{u1} d_{u2})^2 (a_{u1} d_{u2} - a_{u1} d_{u2})^2 (a_{u1} d_{u1} - a_{u1} d_{u1}) - 144 (a_{u1} b_{u1} - a_{u1} b_{u1}) (a_{u1} b_{u2} - a_{u1} d_{u2})^2 (a_{u1} d_{u2} - a_{u1} d_{u2})^2 (a_{u1} d_{u2} - a_{u1} d_{u2})^2 (a_{u1} d_{u2} - a_{u1} d_{u2}) - 144 (a_{u1} d_{u2} - a_{u1} d_{u2}) (a_{u1} d_{u2} - a_{u1} d_{u2})^2 (a_{u1} d_{u2} - a$ $(a_{x1} b_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (c_{x1} d_{y1} - c_{y1} d_{x1}) + 2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} d_{x2}) (a_{x1} c_{y1} - a_{y1} d_{x2}) (a_{x1} c_{y2} - a_{y1} d_{x2}) (a_{x1} c_{y1} - a_{y1} d_{x2}) (a_{x1} c_{y1} - a_{y1} d_{x2}) (a_{x1} c_{y2} - a_{y1} d_{x2}) (a_{x1} c_{y1} - a_{y1} d_{x2}) (a_{x1$ $(a_{u1} c_{x1})^3 (b_{x1} c_{u1} - b_{u1} c_{x1}) (b_{x2} d_{u2} - b_{u2} d_{x2}) + 2 (a_{x1} b_{u2} - a_{u1} b_{x2}) (a_{x1} c_{u1} - a_{u1} c_{x1})^3 (b_{x1} d_{u1} - a_{u1} c_{x1})^3 (b_{x1} d_{u1} - a_{u1} c_{x1})^3 (b_{x2} d_{u2} - b_{u2} d_{x2}) + 2 (a_{x1} b_{u2} - a_{u1} b_{x2}) (a_{x1} c_{u1} - a_{u1} c_{x1})^3 (b_{x1} d_{u1} - a_{u1} c_{x1})^3 (b_{x2} d_{u2} - a_{u1} d_{x2}) + 2 (a_{x2} d_{u2} - a_{u1} d_{x2}) (a_{x2} d_{u2} - a_{u2} d_{x2}) (a_{x2} d_{u2} - a_{$ $b_{y1} d_{x1}$) $(b_{y2} c_{x1} - b_{x2} c_{y1}) + 6 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{y2} c_{x1} - b_{y2} c_{y1}) + 6 (a_{y1} c_{y1} - a_{y1} c_{x1})^3 (a_{y1} c_{y2} - a_{y1} d_{x2}) (b_{y2} c_{y1} - b_{y2} c_{y1}) + 6 (a_{y1} c_{y1} - a_{y1} c_{y1})^3 (a_{y1} c_{y2} - a_{y1} d_{x2}) (b_{y2} c_{y1} - b_{y2} c_{y1}) + 6 (a_{y1} c_{y1} - a_{y1} c_{y1})^3 (a_{y1} c_{y2} - a_{y1} d_{x2}) (b_{y2} c_{y1} - a_{y1} c_{y1}) (a_{y2} c_{y1} - a_{y1} c_{y1}) + 6 (a_{y1} c_{y1} - a_{y1} c_{y1})^3 (a_{y1} c_{y2} - a_{y1} c_{y1}) (a_{y2} c_{y1} - a_{y1} c_{y1}) + 6 (a_{y1} c_{y1} - a_{y1} c_{y1})^3 (a_{y1} c_{y2} - a_{y1} c_{y1}) (a_{y2} c_{y1} - a_{y1} c_{y1}) (a_{y2}$ $(b_{x2} c_{y1}) + 8 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) (c_{x1} c_{y2} - b_{y1} d_{x2}) (c_{x1$ $(c_{x2} c_{y1}) - 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x2} c_{y2} - a_{y2} c_{x2}) (b_{x1} c_{y1} - b_{y1} c_{x1})^2 (b_{x1} d_{y2} - b_{y1} d_{x2}) 12\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)^{2}\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{2}\left(b_{x1}\,d_{y1}-b_{y1}\,d_{x1}\right)\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)+24\left(a_{x1}\,b_{y1}-b_{y1}\,d_{x2}\right)$ $(a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^3 (a_{y2} c_{x1} - a_{x2} c_{y1}) + 12 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x2})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (a_{y1} d_{y2} - a_{y1} d_{y2})^2 (a_{y1} d_{y2} - a_{y$ $(a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} c_{y1} - b_{y1} c_{x1})^2 + 4 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} c_{y2} - a_{y1} c_{x2}) (b_{x1} c_{y1} - a_{y1} c_{x2})^2 + 4 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x2})^2 + 4 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 + 4 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 + 4 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 + 4 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 + 4 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 + 4 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 + 4 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 + 4 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 + 4 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 + 4 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 + 4 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 + 4 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 + 4 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 + 4 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 + 4 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 + 4 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 + 4 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 + 4 (a_{x1} c_{y1} - a_{y1} c_{y$ $b_{y1}\,c_{x1})\,(b_{x2}\,c_{y2}-b_{y2}\,c_{x2})-4\,(a_{x1}\,a_{y2}-a_{x2}\,a_{y1})\,(a_{x1}\,c_{y2}-a_{y1}\,c_{x2})\,(a_{x1}\,d_{y2}-a_{y1}\,d_{x2})\,(b_{x1}\,c_{y1}-a_{y2}\,a_{y1})\,(a_{y1}\,c_{y2}-a_{y1}\,a_{y2})\,(a_{y1}\,a_{y2}-a_{y2}\,a_{y2})\,(a_{y1}\,a_{y2}-a_{y2}\,a_{y2})\,(a_{y1}\,a_{y2}-a_{y2}\,a_{y2})\,(a_{y1}\,a_{y2}-a_{y2}\,a_{y2})\,(a_{y1}\,a_{y2}-a_{y2}\,a_{y2})\,(a_{y1}\,a_{y2}-a_{y2}\,a_{y2})\,(a_{y1}\,a_{y2}-a_{y2}\,a_{y2})\,(a_{y1}\,a_{y2}-a_{y2}\,a_{y2})\,(a_{y1}\,a_{y2}-a_{y2}\,a_{y2})\,(a_{y1}\,a_{y2}-a_{y2}\,a_{y2})\,(a_{y1}\,a_{y2}-a_{y2}\,a_{y2})\,(a_{y1}\,a_{y2}-a_{y2}\,a_{y2})\,(a_{y1}\,a_{y2}-a_$ $(a_{x1} c_{x1})^3 - 4(a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x2} c_{y2} - a_{y2} c_{x2}) (b_{x1} c_{y1} - b_{y1} c_{x1})^2 (b_{x1} d_{y1} - b_{y1} d_{x1}) - b_{y1} d_{x1}$ $12\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})^2\,(a_{x1}\,d_{y1}-a_{y1}\,d_{x1})\,(a_{x1}\,d_{y2}-a_{y1}\,d_{x2})\,(b_{x1}\,b_{y2}-b_{x2}\,b_{y1})^2 + 36\,(a_{x1}\,b_{y2}-b_{x2}\,b_{y1})^2 + 36\,(a_{x1}\,b_{y2}-b_{y2}\,b_{y1})^2 + 36\,(a_{x1}\,b_{y2}-b_{y2}\,b_{$ $(a_{y1} b_{x2})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (b_{x1} d_{y2} - b_{y1} d_{x2}) + 4 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} c_{y2} - a_{y1} a_{y2}) + 4 (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y1} a_{y2} - a_{y2} a_{y2}) (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y1} a_{y2} - a_{y2} a_{y2}) (a_{y2} a_{y2} - a_{y2} a_{y2} a_{y2}) (a_{y2} a_{y2} - a_{y2} a_{y2} a_{y2}) (a_{y2} a_{y2} - a_{y2} a_{y2} a_{y2}) (a_{y2} a_{$ $a_{u1} c_{x2}$) $(a_{x1} d_{u1} - a_{u1} d_{x1}) (b_{x1} c_{u1} - b_{u1} c_{x1})^3 + 6 (a_{x1} c_{u1} - a_{u1} c_{x1})^3 (a_{x1} c_{u2} - a_{u1} c_{x2}) (b_{x1} b_{u2} - a_{u1} c_{x2}) (a_{x2} c_{u2} - a_{u1} c_{x2}) (a_{x2} c_{u2} - a_{u2} c_{x2}) (a_$ $b_{x2}\,b_{y1})\,(c_{x1}\,c_{y2}-c_{x2}\,c_{y1})-6\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})^4\,(b_{x1}\,c_{y2}-b_{y1}\,c_{x2})\,(b_{x2}\,c_{y2}-b_{y2}\,c_{x2})-8\,(a_{x1}\,b_{y2}-b_{y2}\,c_{x2})^2$ $(a_{u1} b_{u2}) (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (b_{x1} b_{y2} - b_{x2} b_{y1}) (c_{x1} d_{y1} - c_{y1} d_{x1}) + 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} b_{x1})^2 (a_{y1} c_{y2} - a_{y1} b_{y2})^2 (a_{y1} c_{y1} - a_{y1} b_{y2})^2 (a_{y1} c_{y2} - a_{y1} b_{y2})^2 (a_{y1} c_{y1} - a_{y1} b_{y1})^2 (a_{y1} c_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1})^2 (a_{y1} c_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1})^2 (a_{y1} c_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1})^2 (a_{y1} c_{y1} - a_{y1} b_{y1} -$ $(a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{y2} c_{x1} - a_{x2} c_{y1}) (c_{x1} d_{y1} - c_{y1} d_{x1}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{y1}) (a_{y2} c_{x1} - a_{y2} c_{y1}) (a_{y1} c_{y1} d_{y1}) - 12 (a_{y1} c_{y1} c_{y1} d_{y1} d_{y1}) - 12 (a_{y1} c_{y1} d_{y1} d_{y1} d_{y1} d_{y1}) - 12 (a_{y1} c_{y1} d_{y1} d_{y1} d_{y1} d_{y1} d_{y1} d_{y1} d_{y1}) - 12 (a_{y1} c_{y1} d_{y1} d$ $a_{y1}\,c_{x2})\,(a_{x1}\,d_{y1}-a_{y1}\,d_{x1})\,(b_{y2}\,c_{x1}-b_{x2}\,c_{y1})\,(c_{x1}\,c_{y2}-c_{x2}\,c_{y1})+12\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})\,(a_{x1}\,c_{y1}-a_{y1}\,b_{x1})$ $(a_{y1} c_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} c_{y1} - b_{y1} c_{x1}) (c_{x2} d_{y2} - c_{y2} d_{x2}) - 6 (a_{x1} c_{y1} - a_{y1} c_{x1})^4 (b_{x1} b_{y2} - a_{y1} c_{x1})^4 (b_{x1} b_{x1} c_{x2})^4 (b_{x1} b_{x1} c_{x2})^4 (b_{x1$ $(b_{x2} b_{y1}) (b_{y2} d_{x1} - b_{x2} d_{y1}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) (b_{x1} c_{y2} - a_{y1} c_{x1})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) (a_{x1} c_{y2} - a_{y1} c_{x1})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) (a_{x1} c_{y2} - a_{y1} c_{x1})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) (a_{x1} c_{y2} - a_{y1} c_{x1})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) (a_{x1} c_{y2} - a_{y1} c_{x1})^2 (a_{y2} c_{x1} - a_{y2} c_{y1}) (a_{y2} c_{y1} - a_{y2} c_{y1}) (a_{y2} c_{y1} - a_{y2} c_{y2}) (a_{y2} c_{y1} - a_{y2} c_{y2}) (a_{y2} c_{y2} - a_{y2} c_{$ $b_{y1} c_{x2}$) $(b_{x1} d_{y2} - b_{y1} d_{x2}) + 4 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x1} d_{y2} - b_{y1} c_{x2})$ $b_{y1} d_{x2}$) + 12 $(a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{y2} c_{x1} - b_{x2} c_{y1}) (c_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x2} c_{y2} - a_{y1} c_{x2}) (a_{$ $(c_{x2} c_{y1}) + 12 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} c_{y1} - b_{y1} c_{x1}) (c_{y2} d_{x1} - a_{y1} c_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{x1} c_{y1} - b_{y1} c_{x1}) (a_{y2} d_{x1} - a_{y1} c_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{y1} c_{y1} - a_{y1} c_{x1}) (a_{y2} d_{x1} - a_{y2} b_{y1}) (a_{y2} d_{x2} - a_{y2} b_{y2}) ($

 $c_{x2}\,d_{y1}) - 2\,(a_{x1}\,b_{y2} - a_{y1}\,b_{x2})^2\,(a_{x1}\,d_{y2} - a_{y1}\,d_{x2})\,(b_{x1}\,c_{y1} - b_{y1}\,c_{x1})^3 + 6\,(a_{x1}\,b_{y1} - a_{y1}\,b_{x1})^2\,(a_{x1}\,d_{y1} - a_{y1}\,b_{x1})^2$ $(a_{u1} d_{x1}) (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{y2} c_{x1} - b_{x2} c_{y1})^2 - 12 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} b_{x2}) (a_{x$ $(a_{y1} c_{x1}) (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} c_{y1} - b_{y1} c_{x1}) (c_{x1} d_{y1} - c_{y1} d_{x1}) - 4 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} d_{y1} - a_{y1} b_{x2})^2 (a_{y1} d_{y1} - a_{y1} d_{y1}) - 4 (a_{y1} b_{y2} - a_{y1} b_{y2})^2 (a_{y1} d_{y1} - a_{y1} d_{y1}) - 4 (a_{y1} d_{y1} - a_{y1} d_{y1})^2 (a_{y1} d_{y1} - a_{y1} d_{y1}) - 4 (a_{y1} d_{y1} - a_{y1} d_{y$ $(a_{y1} d_{x1}) (b_{x1} c_{y1} - b_{y1} c_{x1})^3 + 4 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (b_{x1} b_{y2} - b_{x2} b_{y1})^2 (b_{x1} d_{y1} - b_{y1} d_{x1}) +$ $12\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{2}\left(a_{y2}\,c_{x1}-a_{x2}\,c_{y1}\right)\left(b_{x1}\,c_{y2}-b_{y1}\,c_{x2}\right)\left(b_{x1}\,d_{y1}-b_{y1}\,d_{x1}\right) 4\left(a_{x1}\,c_{v1}-a_{v1}\,c_{x1}\right)^{3}\left(a_{v2}\,b_{x1}-a_{x2}\,b_{v1}\right)\left(b_{x1}\,c_{v2}-b_{v1}\,c_{x2}\right)\left(b_{x1}\,d_{v1}-b_{v1}\,d_{x1}\right)+18\left(a_{x1}\,b_{v1}-a_{v2}\,b_{v1}\right)$ $(a_{x1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (c_{x1} c_{y2} - c_{x2} c_{y1})^2 + 12 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (a_{x1} d_{y2} - a_$ $(a_{y1} d_{x2})^2 (b_{x1} c_{y1} - b_{y1} c_{x1})^2 + 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} b_{y2} - b_{x2} b_{y1})^2 (c_{x1} d_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} b_{y2} - b_{x2} b_{y1})^2 (c_{x1} d_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} b_{y2} - b_{x2} b_{y1})^2 (c_{x1} d_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x2}) (a_{x1} d_{y2} - a_{y1$ $(c_{y1} d_{x1}) + 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (b_{x1} c_{y2} - b_{y1} c_{x2})^2 (b_{x2} d_{y2} - b_{y2} d_{x2}) - b_{y2} d_{x2}$ $8\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{3}\left(b_{x1}\,c_{y1}-b_{y1}\,c_{x1}\right)\left(b_{x2}\,c_{y2}-b_{y2}\,c_{x2}\right)\left(c_{x2}\,d_{y2}-c_{y2}\,d_{x2}\right)-12\left(a_{x1}\,b_{y2}-a_{y2}\,b_{y2}\,c_{y2}\right)$ $(a_{y1} b_{x2})^2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (b_{x1} d_{y2} - b_{y1} d_{x2})^2 + 2 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x1})^2 (a_{x1} c_{y1} - a_{$ $(a_{y1} c_{x2})^2 (b_{x1} c_{y2} - b_{y1} c_{x2}) (c_{x1} c_{y2} - c_{x2} c_{y1}) + (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (b_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x1} c_{y2} - a_{y1$ $(b_{y1} c_{x2})^2 - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} d_{y1} - b_{y1} d_{x1}) (b_{x2} d_{y2} - b_{y2} d_{y1}) (b_{y1} d_{y1} - b_{y1} d_{y1}) (b_{y2} d_{y2} - b_{y2} d_{y1}) (b_{y1} d_{y1} - b_{y1} d_{y1}) (b_{y2} d_{y2} - b_{y2} d_{y1}) (b_{y1} d_{y1} - b_{y1} d_{y1}) (b_{y2} d_{y2} - b_{y2} d_{y1}) (b_{y1} d_{y1} - b_{y1} d_{y1}) (b_{y2} d_{y2} - b_{y2} d_{y1}) (b_{y1} d_{y1} - b_{y1} d_{y1}) (b_{y2} d_{y2} - b_{y2} d_{y1}) (b_{y1} d_{y1} - b_{y1} d_{y1}) (b_{y2} d_{y2} - b_{y2} d_{y2}) (b_$ $b_{y2}\,d_{x2}) + 12\,(a_{x1}\,b_{y2} - a_{y1}\,b_{x2})^2\,(a_{x1}\,d_{y1} - a_{y1}\,d_{x1})^2\,(b_{x1}\,c_{y1} - b_{y1}\,c_{x1})^2 + 4\,(a_{x1}\,c_{y1} - a_{y1}\,c_{x1})^3\,(a_{x1}\,d_{y2} - a_{y1}\,c_{x1})^2 + 4\,(a_{x1}\,c_{y1} - a_{y1}\,c_{x1})^3\,(a_{x1}\,d_{y2} - a_{y1}\,c_{x1})^3\,(a_{x1}\,d_{y2} - a_{y1}\,c_{x1})^3 + 4\,(a_{x1}\,c_{y1} - a_{y1}\,$ $a_{u1} d_{x2}$) $(a_{x2} c_{u2} - a_{u2} c_{x2}) (b_{x1} c_{u1} - b_{u1} c_{x1}) - 12 (a_{x1} b_{u2} - a_{u1} b_{x2})^2 (a_{x1} c_{u1} - a_{u1} c_{x1})^2 (b_{x1} d_{u1} - a_{u1} c_{x1})^2$ $(a_{x1} a_{y1} a_{x1})^2 - 12(a_{x1} a_{y2} - a_{x2} a_{y1})(a_{x1} c_{y1} - a_{y1} c_{x1})^3(a_{x1} d_{y2} - a_{y1} d_{x2})(c_{x2} d_{y2} - c_{y2} d_{x2}) - 12(a_{x1} a_{y2} - a_{x2} a_{y1})(a_{x1} c_{y1} - a_{y1} c_{x1})^3(a_{x1} d_{y2} - a_{y1} d_{x2})(c_{x2} d_{y2} - c_{y2} d_{x2}) - 12(a_{x1} a_{y2} - a_{y1} a_{x2})(a_{x1} a_{y2} -$ $6\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{3}\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)^{2}\left(a_{x2}\,c_{y2}-a_{y2}\,c_{x2}\right)+12\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,c_{y1}-a_{y2}\,c_{y2}\right)$ $(a_{y1} c_{x1})^3 (a_{x1} d_{y1} - a_{y1} d_{x1}) (c_{y2} d_{x1} - c_{x2} d_{y1}) - 16 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{y2} d_{x1} - a_{y1} d_{x1})^3 (b_{y1} c_{y1} - b_{y1} c_{y1}) (b_{y2} d_{x1} - a_{y1} d_{x1}) (b_{y2} d_{x1} - a_{y1} d_{x1})^3 (a_{x1} d_{y1} - a_{y1} d_{x1}) (b_{y2} d_{x1} - a_{y1} d_{x1}) (b_{y2} d_{x1} - a_{y1} d_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})$ $(b_{x2} d_{y1}) (b_{x2} d_{y2} - b_{y2} d_{x2}) + 4 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{y2} d_{x1} - a_{x2} d_{y1}) (b_{x1} c_{y1} - a_{y1} c_{x2})^3 (a_{y1} c_{y1} - a_{y1} c_{y1}) (a_{y2} d_{y2} - a_{y1} c_{y2}) (a_{y2} d_{y2} - a_{y1} c_{y1}) (a_{y1} c_{y1} - a_{y1} c_{y1}) (a_{y2} d_{y2} - a_{y1} c_{y2}) (a_{y2} d_{y2} - a_{y1} c_{y1}) (a_{y2} d_{y2} - a_{y1} c_{y2}) (a_{y2} d_{y2} - a_{y1} c_{y1}) (a_{y2} d_{y2} - a_{y1} c_{y1}) (a_{y2} d_{y2} - a_{y1} c_{y2}) (a_{$ $(b_{y1} c_{x1}) + 18 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1}) (b_{x1} b_{y2} - b_{x2} b_{y1})^2 (c_{x1} d_{y2} - c_{y1} d_{x2}) +$ $36\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)\left(b_{x1}\,b_{y2}-b_{x2}\,b_{y1}\right)\left(b_{x1}\,c_{y2}-b_{y1}\,c_{x2}\right)\left(c_{x2}\,d_{y2}-c_{y2}\,d_{x2}\right)+$ $18\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)\left(c_{x1}\,d_{y1}-c_{y1}\,d_{x1}\right)^{2}-18\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}$ $(a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (c_{x1} c_{y2} - c_{x2} c_{y1})^2 - 24 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (b_{x1} c_{y2} - a_{y1} b_{x1})^3 (b_{x1} c_{y2} - a_{y1} b_{x1})^3 (a_{x1} b_{y1} - a_$ $(b_{y1} c_{x2}) (b_{x2} d_{y2} - b_{y2} d_{x2}) (c_{x1} c_{y2} - c_{x2} c_{y1}) - 6 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x2} c_{y2} - a_{y1} c_{y1})^3 (a_{y1} d_{y1} - a_{y1} d_{y1})^2 (a_{y1} c_{y2} - a_{y1} d_{y1})^2 (a_{y1} c_{y1} - a_{y1$ $a_{y2} c_{x2}$) $-24 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (b_{x1} b_{y2} - a_{y1} c_{x2}) (a_{x2} d_{y1} - a_{y1} d_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x2} d_{y2} - a_{y2} d_{x2}) (a_{x2} d_{y2} - a_{y1} d_{x2}) (a_{x2} d_{y2} - a_{y2} d_{x2}) (a_{x2}$ $b_{x2}\,b_{y1})\,(c_{x1}\,c_{y2}-c_{x2}\,c_{y1})-12\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})^2\,(a_{x1}\,c_{y2}-a_{y1}\,c_{x2})^2\,(b_{x1}\,b_{y2}-b_{x2}\,b_{y1})\,(b_{x1}\,d_{y1}-a_{y1}\,c_{x2})^2$ $b_{y1} d_{x1}$)+12 $(a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{y2} c_{x1} - a_{x2} c_{y1}) (c_{x1} d_{y2} - a_{y1} c_{x2})$ $(c_{y1} d_{x2}) + 4 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x2} d_{y2} - a_{y2} d_{x2}) (b_{x1} c_{y1} - b_{y1} c_{x1}) +$ $12\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{3}\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(a_{y2}\,c_{x1}-a_{x2}\,c_{y1}\right)\left(b_{x1}\,c_{y2}-b_{y1}\,c_{x2}\right)+72\left(a_{x1}\,a_{y2}-a_{y1}\,d_{x2}\right)$ $(a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (c_{y2} d_{x1} - c_{x2} d_{y1}) - 24 (a_{x1} b_{y1} - a_{y1} d_{x1})^2 (a_{y1} d_{y1} - a_{y1} d_{y1})^2 - 24 (a_{y1} d_{y1} - a_{y1} d_{y1} - a_{y1} d_{y1})^2 - 24 (a_{y1} d_{y1} - a_{y1} d_{y1} - a_{y1} d_{y1})^2 - 24 (a_{y1} d_{y1} - a_{y1} d_{y1} - a_{y1} d_{y1})^2 - 24 (a_{y1} d_{y1} - a_{y1} d_{y1} - a_{y1} d_{y1})^2 - 24 (a_{y1} d_{y1} - a_{y1} d_{y1} - a_{y1} d_{y1})^2 - 24 (a_{y1} d_{y1} - a_{y1} d_{y1} - a_{y1} d_{y1})^2 - 24 (a_{y1} d_{y1} - a_{y1} d_{y1} - a_{y1} d_{y1})^2 - 24 (a_{y1} d_{y1} - a_{y1} d_{y1} - a_{y1} d_{y1})^2 - 24 (a_{y1} d_{y1} - a_{y1} d_{y1} - a_{y1} d_{y1})^2 - 24 (a_{y1} d_{y1} - a_{y1} d_{y1} - a_{y1} d_{y1})^2 - 24 (a_{y1} d_{y1} - a_{y1} d_{y1} - a_{y1} d_{y1})^2 - 24 (a_{y1} d_{y1} - a_{y1} d_{y1} - a_{y1} d_{y1})^2 - 24 (a_{y1} d_{y1} - a_{y1} d_{y1$ $a_{y1}\,b_{x1})\,(a_{x1}\,c_{y2}-a_{y1}\,c_{x2})\,(a_{x1}\,d_{y1}-a_{y1}\,d_{x1})^3\,(a_{y2}\,c_{x1}-a_{x2}\,c_{y1})+24\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})\,(a_{x1}\,c_{y1}-a_{y1}\,b_{x2})$ $a_{u1} c_{x1}$) $(a_{x1} c_{u2} - a_{u1} c_{x2}) (a_{x1} d_{u2} - a_{u1} d_{x2}) (b_{x1} b_{u2} - b_{x2} b_{u1}) (c_{x1} c_{u2} - c_{x2} c_{u1}) + 12 (a_{x1} c_{u1} - a_{u1} c_{u2}) (a_{x1} c_{u2} - a_{u1} c_{u2}) (a_{x2} c_{u2} - a_{u1} c_{u2}) (a_{x2} c_{u2} - a_{u2} c_{u2}) + 12 (a_{x2} c_{u2} - a_{u2} c_{u2}) + 12 (a_{x2} c_{u2} - a_{u2} c_{u2}) (a_{x2} c_{u2} - a_{u2} c_{u$ $(a_{y1} c_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} b_{x1}) (a_$ $(a_{u1} c_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{y2} c_{x1} - a_{x2} c_{y1}) (c_{x1} d_{y1} - c_{y1} d_{x1}) - 4 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} d_{y1} - a_{y1} c_{x1})^3 (a_{y1} c_{y1} - a_{y1} c_{y1})^3 (a_{y1} c_{y1} - a_{y1} c_{y1} c_{y1})^3 (a_{y1} c_{y1} - a_{y1} c_{y1} c_{y1} c_{y1})^3 (a_{y1} c_{y1} - a_{y1} c_{y1} c_{y1}$ $(a_{y1} d_{x1}) (a_{x2} c_{y2} - a_{y2} c_{x2}) (b_{x1} c_{y1} - b_{y1} c_{x1}) - 12 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{y2} c_{x1} - a_{y1} d_{x1})^3 (a_{y1} d_{y1} - a_{y1} d_{y1}) (a_{y2} c_{y1} - a_{y1} d_{y1}) (a_$ $(a_{x2} c_{y1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) - 24 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} b_{x1} - a_{y2} c_{x2})$ $a_{x2}\,b_{y1})\,(b_{x1}\,d_{y1}-b_{y1}\,d_{x1})-72\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})\,(a_{x1}\,b_{y2}-a_{y1}\,b_{x2})\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})\,(a_{x1}\,c_{y2}-a_{y1}\,b_{x2})$ $(a_{x1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (c_{x2} d_{y2} - c_{y2} d_{x2}) + 36 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x1} d_{y2} - a_{y1} c_{x2})^2$ $(a_{y1} d_{x2})^2 (b_{y2} c_{x1} - b_{x2} c_{y1}) + 24 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} c_{x2}) (a_{x$ $a_{y1} d_{x1}$) $(a_{y2} b_{x1} - a_{x2} b_{y1}) (c_{x1} d_{y1} - c_{y1} d_{x1}) + 12 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{y2} b_{x1} - a_{y1} d_{x1})^2 (a_{y1} a_{y1} - a_{y1} d_{x1})^2 (a_{y2} b_{x1} - a_{y1} d_{x1})^2 (a_{y1} a_{y1} - a_{$ $(a_{x2} b_{y1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) + 12 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} a_{y1}) (a_{y1} c_{y2} - a_{y1} a_{y1}) (a_{y1}$

 $(a_{y1} d_{x1}) (b_{x1} d_{y1} - b_{y1} d_{x1})^2 - 24 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} d_{y1} - a_{y1} b_{x1})^2$ $b_{y1} d_{x1}$) $(c_{x1} d_{y1} - c_{y1} d_{x1}) + 12 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} c_{y1} - a_{y1} d_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{x1} c_{y1} - a_{y1} d_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{x1} c_{y1} - a_{y1} d_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{x1} c_{y1} - a_{y1} d_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{x1} c_{y1} - a_{y1} d_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{x1} c_{y1} - a_{y1} d_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{x1} c_{y1} - a_{y1} d_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{x1} c_{y1} - a_{y1} d_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{x1} c_{y1} - a_{y1} d_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{x1} c_{y1} - a_{y1} d_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{x1} c_{y1} - a_{y1} d_{x1})^2 (a_{y1} c_{y1} - a_{y1} d_{x1})^2 (a_{y1}$ $b_{y1} c_{x1} (b_{x1} c_{y2} - b_{y1} c_{x2}) + 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x2} c_{y2} - a_{y2} c_{x2}) (b_{x1} d_{y1} - a_{y1} c_{x1}) (a_{x2} c_{y2} - a_{y2} c_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x2} c_{y2} - a_{y2} c_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x2} c_{y2} - a_{y2} c_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x2} c_{y2} - a_{y2} c_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x2} c_{y2} - a_{y2} c_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x2} c_{y2} - a_{y2} c_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x2} c_{y2} - a_{y2} c_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x2} c_{y2} - a_{y2} c_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x2} c_{y2} - a_{y2} c_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x2} c_{y2} - a_{y2} c_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x2} c_{y2} - a_{y2} c_{x2}) (a_{x2}$ $(b_{y1} d_{x1})^2 - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x2} c_{y2} - a_{y2} c_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1}) (c_{x1} d_{y1} - c_{y1} d_{x1}) - (c_{y1} d_{y1} - c_{y1} d_{x1}) - (c_{y1} d_{y1} - c_{y1} d_{y1}) (c_{y1} d_{y1} - c_{y1} d_{y1}) - (c_{y1} d_{y1} - c_{y1} d_{y1}) (c_{y1} d_{y1} - c_{y1} d_{y1}) - (c_{y1} d_{y1} - c_{y1} d_{y1}) (c_{y1} d_{y1} - c_{y1} d_{$ $24\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)\left(a_{y2}\,b_{x1}-a_{x2}\,b_{y1}\right)\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)\left(c_{x1}\,d_{y2}-c_{y1}\,d_{x2}\right) (6(a_{x1}b_{y1} - a_{y1}b_{x1})^2(a_{x1}c_{y1} - a_{y1}c_{x1})(a_{x2}c_{y2} - a_{y2}c_{x2})(b_{x1}d_{y2} - b_{y1}d_{x2})^2 + 12(a_{x1}a_{y2} - a_{y2}c_{x2})(a_{x1}d_{y2} - a_{y2}d_{x2})^2 + 12(a_{x1}a_{y2} -$ $(a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2})^{2} - 24 (a_{x1} a_{y2} - a_{y1} c_{x2}) (a_{x2} a_{y1}) (a_{x2} a_{y2} - a_{y1} a_{x2})^{2} - 24 (a_{x2} a_{y1} a_{y2} - a_{y1} a_{y2})^{2} - 24 (a_{x2} a_{y2} - a_{y1} a_{y2})^{2} - 24 (a_{x2} a_{y1} a_{y2} - a_{y1} a_{y2} a_{y2})^{2} - 24 (a_{x2} a_{y1} a_{y2} - a_{y1} a_{y2} a_{y2} a_{y2})^{2} - 24 (a_{x2} a_{y1} a_{y2} a_{y2}$ $(a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) (c_{x2} d_{y2} - c_{y2} d_{x2}) + 12 (a_{x1} a_{y2} - b_{y1} d_{x2}) (a_{y2} - b_{y1} d_{x2}) (a_{y2} - b_{y1} d_{x2}) (a_{y2} - b_{y1} d_{x2}) (a_{y2} - b_{y1} d_{x2}) + 12 (a_{y2} - b_{y1} d_{x2}) (a_{y2$ $(a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{x1} d_{y1} - b_{y1} d_{x1}) (c_{x2} d_{y2} - c_{y2} d_{x2}) - 4 (a_{x1} b_{y1} - b_{y1} d_{x2}) (a_{y1} a_{y1} - a_{y1} b_{y1})^2 (a_{y1} a_{y1} - a_{y1} a_{y1})^2 (a_{y1} a_{y1} - a_{y1} a_{y1} a_{y1})^2 (a_{y1} a_{y1} - a_{y1} a_{y1} a_{y1} a_{y1} - a_{y1} a_$ $(a_{y1} b_{x1})^3 (a_{y2} d_{x1} - a_{x2} d_{y1}) (b_{x1} c_{y1} - b_{y1} c_{x1}) (c_{y2} d_{x1} - c_{x2} d_{y1}) + 8 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x2} d_{y2} - a_{y1} b_{x1})^3 (a_{y2} d_{y1} - a_{y1} b_{y1})^3 (a_{y2} d_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1})^3 (a_{y2} d_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1})^3 (a_{y2} d_{y1} - a_{y1} b_{y1} - a$ $(a_{y2} d_{x2}) (b_{x1} c_{y1} - b_{y1} c_{x1}) (c_{x2} d_{y2} - c_{y2} d_{x2}) + 12 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} c_{y2} - a_{y2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} c_{y2} - a_{y2} a_{y1}) (a_{y1} c_{y1} - a_{y1} b_{y1})^2 (a_{y1} c_{y2} - a_{y2} a_{y1}) (a_{y1} c_{y1} - a_{y1} b_{y1})^2 (a_{y1} c_{y2} - a_{y2} a_{y1}) (a_{y1} c_{y1} - a_{y1} a_{y1})^2 (a_{y1} c_{y2} - a_{y2} a_{y1}) (a_{y1} c_{y1} - a_{y1} a_{y1})^2 (a_{y1} c_{y2} - a_{y2} a_{y1}) (a_{y1} c_{y1} - a_{y1} a_{y1})^2 (a_{y1} c_{y2} - a_{y2} a_{y1}) (a_{y1} c_{y1} - a_{y1} a_{y1})^2 (a_{y1} c_{y1} - a_{y1} a_{y1} a_{y1})^2 (a_{y1} c_{y1} - a_{y1} a_{y1} a_{y1} a_{y1} - a_{y1} a_{y1} a_{y1})^2 (a_{y1} c_{y1} a_{y1} a_{y1}$ $b_{y1}\,c_{x2})\,(b_{x1}\,d_{y2}-b_{y1}\,d_{x2})\,(c_{x1}\,d_{y1}-c_{y1}\,d_{x1}) + 72\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})\,(a_{x1}\,b_{y2}-a_{y1}\,b_{x2})\,(a_{x1}\,c_{y1}-a_{y1}\,b_{x2})$ $a_{u1} c_{x1}$) $(a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (c_{y2} d_{x1} - c_{x2} d_{y1}) + 36 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1$ $(a_{x1} c_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (b_{y2} c_{x1} - b_{x2} c_{y1}) - 18 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (b_{x1} b_{y2} - a_{y1} b_{x2}) (b_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} b_{y2} - a_{y1} b_{x2}) ($ $(b_{x2} b_{y1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) (c_{x1} d_{y2} - c_{y1} d_{x2}) + 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x2} d_{y2} - b_{y2} b_{y2}) (b_{x2$ $b_{y2}\,d_{x2})\,(c_{x1}\,d_{y2}-c_{y1}\,d_{x2})-72\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})\,(a_{x1}\,b_{y2}-a_{y1}\,b_{x2})\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})\,(a_{x1}\,d_{y1}-a_{y1}\,c_{x2})$ $a_{y1} d_{x1} (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x2} d_{y2} - b_{y2} d_{x2}) - 18 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (b_{x1} b_{y2} - a_{y1} b_{x2}) (b_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1}$ $(b_{x2} b_{y1}) (b_{x1} d_{y1} - b_{y1} d_{x1}) (c_{x1} d_{y1} - c_{y1} d_{x1}) - 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{y2} d_{x1} - b_{y1} d_{x1})^3 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{y2} d_{x1} - b_{y1} d_{x1})^3 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{y2} d_{x1} - b_{y1} d_{x1})^3 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{y2} d_{x1} - b_{y1} d_{x1})^3 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{y2} d_{x1} - b_{y1} d_{x1}) (b_{y2} d_{x1} - b_{y1} d_{x1}$ $(b_{x2} d_{y1}) (c_{x1} d_{y1} - c_{y1} d_{x1}) + 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (b_{x1} c_{y2} - b_{y1} c_{x2})^2 (b_{y2} d_{x1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (b_{y2} d_{x1} - a_{y1} c_{x2})^2 (a_{y1} c_{y2} - a_{y1} c_{x2})^2 (a_{y1} c_{y2} - a_{y1} c_{x2})^2 (a_{y1} c_{y2} - a_{y1} c_{y2})^2 (a_{y2} c_{y2} - a_{y1} c_{y2})^2 (a_{y1} c_{y2} - a_{y1}$ $(b_{x2} d_{y1}) + 16 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{x2} c_{y2} - b_{y2} c_{x2}) (c_{y2} d_{x1} - c_{x2} d_{y1}) 36\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)^{2}\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)^{2}\left(b_{x1}\,d_{y1}-b_{y1}\,d_{x1}\right)+36\left(a_{x1}\,b_{y1}-a_{y1}\,d_{x2}\right)^{2}$ $(a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) (c_{y2} d_{x1} - c_{x2} d_{y1}) + 144 (a_{x1} a_{y2} - b_{y1} c_{x2}) (a_{y2} d_{x1} - c_{x2} d_{y1}) + 144 (a_{x1} a_{y2} - b_{y1} c_{x2}) (a_{y2} d_{x1} - c_{x2} d_{y1}) + 144 (a_{x1} a_{y2} - b_{y1} c_{x2}) (a_{y2} d_{x1} - c_{x2} d_{y1}) + 144 (a_{y1} a_{y2} - b_{y1} c_{y2}) (a_{y1} d_{y1} - c_{y2} d_{y1}) + 144 (a_{y1} a_{y2} - b_{y1} c_{y2}) (a_{y2} d_{y1} - c_{y2} d_{y1}) + 144 (a_{y1} a_{y2} - b_{y1} c_{y2}) (a_{y2} d_{y1} - c_{y2} d_{y1}) + 144 (a_{y1} a_{y2} - b_{y1} c_{y2}) (a_{y2} d_{y1} - c_{y2} d_{y1}) + 144 (a_{y1} a_{y2} - b_{y1} c_{y2}) (a_{y2} d_{y1} - c_{y2} d_{y1}) + 144 (a_{y1} a_{y2} - b_{y1} c_{y2}) (a_{y2} d_{y1} - c_{y2} d_{y1}) + 144 (a_{y1} a_{y2} - b_{y1} c_{y2}) (a_{y1} d_{y1} - c_{y2} d_{y1}) + 144 (a_{y1} a_{y2} - b_{y1} c_{y2}) (a_{y1} d_{y1} - c_{y2} d_{y1}) + 144 (a_{y1} a_{y2} - b_{y1} c_{y2}) (a_{y1} d_{y1} - c_{y2} d_{y1}) + 144 (a_{y1} a_{y2} - b_{y1} c_{y2}) (a_{y1} d_{y1} - c_{y2} d_{y1}) + 144 (a_{y1} a_{y2} - b_{y1} c_{y2}) (a_{y1} d_{y1} - c_{y2} d_{y1}) + 144 (a_{y1} a_{y2} - b_{y1} c_{y2}) (a_{y1} d_{y1} - c_{y2} d_{y1}) + 144 (a_{y1} a_{y2} - b_{y1} c_{y2}) (a_{y1} d_{y1} - c_{y2} d_{y1}) + 144 (a_{y1} a_{y2} - b_{y1} c_{y2}) (a_{y1} d_{y1} - c_{y2} d_{y1}) + 144 (a_{y1} a_{y2} - c$ $(a_{x1} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (c_{x1} d_{y1} - a_{y1} d_{x2}) (c_{x1} d_{y$ $c_{y1}\,d_{x1}) - 12\,(a_{x1}\,b_{y1} - a_{y1}\,b_{x1})\,(a_{x1}\,c_{y1} - a_{y1}\,c_{x1})\,(a_{x1}\,c_{y2} - a_{y1}\,c_{x2})\,(b_{x1}\,b_{y2} - b_{x2}\,b_{y1})\,(b_{x1}\,c_{y1} - a_{y1}\,c_{x2})\,(a_{x1}\,b_{y2} - b_{x2}\,b_{y1})\,(a_{x1}\,c_{y1} - a_{y1}\,c_{x2})\,(a_{x1}\,b_{y2} - b_{x2}\,b_{y1})\,(a_{x1}\,c_{y1} - a_{y1}\,c_{x2})\,(a_{x1}\,b_{y2} - b_{x2}\,b_{y1})\,(a_{x1}\,c_{y1} - a_{y1}\,b_{x2})\,(a_{x1}\,b_{y2} - b_{x2}\,b_{y1})\,(a_{x1}\,b_{y2} - b_{x2}\,b_{y2})\,(a_{x1}\,b_{y2} - b_{x2}\,b_{y1})\,(a_{x1}\,b_{y2} - b_{x2}\,b_{y2})\,(a_{x1}\,b_{y2} - b_{x2}\,b_{y2})\,(a_{x1}\,b_{y2} - b_{y2}\,b_{y2})\,(a_{x1}\,b_{y2} - b_{y2}\,b_{y2})\,(a_{x1}\,$ $b_{y1} c_{x1} (c_{x1} c_{y2} - c_{x2} c_{y1}) - 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (b_{x1} b_{y2} - b_{x2} b_{y1}) (c_{x1} c_{y2} - b_{y2} b_{y2}) (c_{x1}$ $(c_{x2} c_{y1})^2 + 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x1} b_{y2} - a_{y1} b_{x2}) (c_{y2} d_{x1} - c_{x2} d_{y1})^2 - 24 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (b_{x1} b_{y2} - a_{y1} b_{x2})^2 + 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{y1} a_{y1} - a_{y1} b_{x1})^3 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 + 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{y1} a_{y1} - a_{y1} b_{x1})^3 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{y1} a_{y1} - a_{y1} b_{x1})^3 (a_{x1} a_{y2} - a_{y1} b_{x2}) (a_{y1} a_{y1} - a_{y1} b_{x1})^3 (a_{y1} a_{y2} - a_{y1} b_{x2}) (a_{y1} a_{y1} - a_{y1} b_{x1})^3 (a_{y1} a_{y2} - a_{y1} b_{x2}) (a_{y1} a_{y1} - a_{y1} a_{y1} a_{y1} - a_{y1} a_{y$ $b_{x2}\,b_{y1})\,(c_{x1}\,c_{y2}-c_{x2}\,c_{y1})\,(c_{y2}\,d_{x1}-c_{x2}\,d_{y1})+12\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})^2\,(a_{x1}\,c_{y2}-a_{y1}\,c_{x2})\,(a_{x1}\,d_{y1}-a_{y1}\,d_{y1})$ $(a_{u1} d_{x1}) (b_{x1} b_{y2} - b_{x2} b_{y1}) (c_{y2} d_{x1} - c_{x2} d_{y1}) + 24 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x2} c_{y2} - b_{y2} c_{y2}) (b_{x$ $b_{y2}\,c_{x2})\,(c_{x1}\,d_{y1}-c_{y1}\,d_{x1})-18\,(a_{x1}\,b_{y2}-a_{y1}\,b_{x2})^2\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})^2\,(a_{x1}\,d_{y1}-a_{y1}\,d_{x1})\,(c_{x1}\,d_{y2}-a_{y1}\,d_{x2})^2$ $(c_{y1} d_{x2}) + 12 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} d_{y1} - a_{y1} d_{x1}) (b_{x2} d_{y2} - b_{y2} d_{x2}) - (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} d_{y1} - a_{y1} d_{x1}) (b_{x2} d_{y2} - b_{y2} d_{x2}) - (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x2} d_{y2} - a_{y2} d_{x2}) - (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} c_{y1} - a_{y1} d_{x1}) (a_{x2} d_{y2} - a_{y2} d_{x2}) - (a_{x2} c_{y1} - a_{y1} c_{x1})^3 (a_{x2} d_{y2} - a_{y2} d_{x2}) - (a_{x2} c_{y1} - a_{y2} d_{x2}) (a_{x2} c_{y1} - a_{y2} d_{x2}) - (a_{x2} c_{y2} - a_{y2} d_{x2}) (a_{x2} c_{y2} - a_{y2} d_{x2}) - (a_{x2} c_{y2} - a_{y2} d_{x2}) (a_{x2} c_{y2} - a_{y2} d_{x2}) - (a_{x2} c_{y2} - a_{y2} d_{x2}) (a_{x2} c_{y2} - a_{y2} d_{x2}) - (a_{x2} c_{y2} - a_{y2} d_{x2}) (a_{x2} c_{y2} - a_{y2} d_{x2}) - (a_{x2} c_{y2} - a_{y2} d_{x2}) (a_{x2} c_{y2} - a_{y2} d_{x2}) - (a_{x2} c_{y2} - a_{y2} d_{x2}) (a_{x2} c_{y2} - a_{y2} d_{x2}) - (a_{x2} c_{y2} - a_{y2} d_{x2}) (a_{x2} c_{y2} - a_{y2} d_{x2}) - (a_{x2} c_{y2} - a_{y2} d_{x2}) (a_{x2} c_{y2} - a_{y2} d_{x2}) - (a_{x2} c_{y2} - a_{y2} d_{x2}) (a_{x2} c_{y2} - a_{y2} d_{x2}) - (a_{x2} c_{y2} c_{y2} - a_{y2} d_{x2}) - (a_{x2} c_{y2} c_{y2} - a_{y2} d_{x2}) (a_{x2} c_{y2} - a_{y2} d_{x2}) - (a_{x2} c_{y2} c_{y2} - a_{y2} d_{x2}) (a_{x2} c_{y2} - a_{y2} d_{x2}) - (a_{x2} c_{y2} c_{y2} - a_{y2} d_{x2}) (a_{x2} c_{y2} - a_{y2} d_{x2}) - (a_{x2} c_{y2} c_{y2} - a_{y2} d_{x2}) (a_{x2} c_{y2} - a_{y2} d_{x2}) - (a_{x2} c_{y2} c_{y2} - a_{y2} d_{x2}) (a_{x2} c_{y2} - a_{y2} d_{x2}) - (a_{x2} c_{y2} c_{y2} - a_{y2} d_{x2}) (a_{x2} c_{y2} - a_{y2} d_{x2}) - (a_{x2} c_{y2} c_{y2} - a_{y2} d_{x2}) (a_{x2} c_{y2} - a_{y2} d_{x2}) - (a_{x2} c_{y2} c_{y2} - a_{y2} d_{x2}) (a_{x2} c_{y2} - a_{y2} d_{x2}) - (a_{x2} c_{y2} c_{y2} - a_{y2} d_{x2}) (a_{x2} c_{y2} - a_{y2} d_{x2}) (a_{x2}$ $18\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{2}\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)^{2}\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)\left(b_{y2}\,c_{x1}-b_{x2}\,c_{y1}\right)-12\left(a_{x1}\,b_{y2}-a_{y1}\,c_{x2}\right)^{2}\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)\left(a_{y2}\,c_{x1}-a_{y2}\,c_{y1}\right)-12\left(a_{x1}\,b_{y2}-a_{y1}\,c_{x2}\right)^{2}\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)\left(a_{y2}\,c_{x1}-a_{y2}\,c_{y1}\right)-12\left(a_{x1}\,a_{y2}-a_{y1}\,a_{x2}\right)^{2}\left(a_{x1}\,a_{y2}-a_{y1}\,a_{x2}\right)^{2}\left(a_{x1}\,a_{y1}-a_{y1}\,a_{x2}\right)^{2}\left(a_{x1}\,a_{y2}-a_{y1}\,a_{y2}\right)^{2}\left(a_{x1}\,a_{y2}-a_{y1}\,a_{y2}\right)^{2}\left(a_{x1}\,a_{y2}-a_{y1}\,a_{y$ $(a_{u1} b_{u2}) (a_{u1} c_{u1} - a_{u1} c_{x1})^3 (a_{u1} c_{u2} - a_{u1} c_{x2}) (c_{u2} d_{u1} - c_{u2} d_{u1}) + 12 (a_{u1} c_{u1} - a_{u1} c_{x1})^3 (a_{u1} c_{u2} - a_{u1} c_{u2}) + 12 (a_{u1} c_{u1} - a_{u1} c_{u1})^3 (a_{u1} c_{u2} - a_{u1} c_{u2}) + 12 (a_{u1} c_{u1} - a_{u1} c_{u1})^3 (a_{u1} c_{u2} - a_{u1} c_{u2}) + 12 (a_{u1} c_{u1} - a_{u1} c_{u1})^3 (a_{u1} c_{u2} - a_{u1} c_{u2}) + 12 (a_{u1} c_{u1} - a_{u1} c_{u1})^3 (a_{u1} c_{u2} - a_{u1} c_{u2}) + 12 (a_{u1} c_{u1} - a_{u1} c_{u1})^3 (a_{u1} c_{u2} - a_{u1} c_{u2}) + 12 (a_{u1} c_{u1} - a_{u1} c_{u1})^3 (a_{u1} c_{u2} - a_{u1} c_{u2}) + 12 (a_{u1} c_{u1} - a_{u1} c_{u1})^3 (a_{u1} c_{u2} - a_{u1} c_{u2}) + 12 (a_{u1} c_{u1} - a_{u1} c_{u1})^3 (a_{u1} c_{u2} - a_{u1} c_{u2}) + 12 (a_{u1} c_{u1} - a_{u1} c_{u1})^3 (a_{u1} c_{u2} - a_{u1} c_{u2}) + 12 (a_{u1} c_{u1} - a_{u1} c_{u1})^3 (a_{u1} c_{u2} - a_{u1} c_{u2}) + 12 (a_{u1} c_{u1} - a_{u1} c_{u1})^3 (a_{u1} c_{u2} - a_{u1} c_{u2}) + 12 (a_{u1} c_{u1} - a_{u1} c_{u1})^3 (a_{u1} c_{u2} - a_{u1} c_{u2}) + 12 (a_{u2} c_{u1} - a_{u1} c_{u2}) + 12 (a_{u2} c_{u1} - a_{u1} c_{u2}) + 12 (a_{u2} c_{u2} - a_{u2} c_{u2}) + 12 (a_$ $(a_{y1} c_{x2})^2 (b_{y2} d_{x1} - b_{x2} d_{y1}) + 18 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} c_{x2}) (a_$ $(a_{y1} d_{x2}) (c_{x1} c_{y2} - c_{x2} c_{y1}) - 6 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x2} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x2} c_{y2} - a_{y1} c_{x2}) (a_{x2$ $b_{y2} c_{x2}$)+12 $(a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} d_{y1} - a_{y1} d_{x2})^2$ $(b_{y1} d_{x1}) - 12(a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{y2} d_{x1} - a_{x2} d_{y1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) +$ $4\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)^{3}\left(a_{y2}\,b_{x1}-a_{x2}\,b_{y1}\right)\left(b_{x1}\,c_{y2}-b_{y1}\,c_{x2}\right)-12\left(a_{x1}\,a_{y2}-a_{y1}\,a_{x2}\right)^{3}$ $(a_{x1} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} c_{y1} - b_{y1} c_{x1}) (c_{x1} d_{y2} - a_{y1} d_{x2}) (c_{x1} d_{y$ $(c_{y1} d_{x2}) + 18 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (c_{x1} d_{y2} - c_{y1} d_{x2})^2 +$ $12\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{2}\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)^{2}\left(a_{y2}\,b_{x1}-a_{x2}\,b_{y1}\right)\left(b_{x1}\,c_{y2}-b_{y1}\,c_{x2}\right)+36\left(a_{x1}\,b_{y1}-a_{y1}\,c_{x2}\right)^{2}$ $(a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (c_{x1} d_{y2} - a_{y1} c_{x2}) (a_{y2} b_{y1} - a_{y2} b_{y1}) (a_{y2} b_{y1} - a_{y2} b_{y1}) (a_{y2} b_{y2} - a_{y1} c_{y2}) (a_{y2} b_{y2} - a_{y1} c_{y2}) (a_{y2} b_{y2} - a_{y2} b_{y2}) (a_{y2} b_{y$

 $(a_{x1} a_{y2}) - 36 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} a_{y2} - a_{y1} d_{x2}) (a_{x1}$ $(b_{y1} d_{x2})^2 - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (a_{x2} c_{y2} - a_{y2} c_{x2}) (b_{x1} d_{y2} - b_{y1} d_{x2}) +$ $8\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)^{3}\left(a_{y2}\,b_{x1}-a_{x2}\,b_{y1}\right)\left(b_{x1}\,c_{y2}-b_{y1}\,c_{x2}\right)-12\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x2}\right)^{3}$ $(a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) + 24 (a_{x1} b_{y1} - b_{y2} b_{y1}) (a_{y1} c_{y2} - b_{y1} c_{y2}) + 24 (a_{y1} c_{y2} - b_{y1} c_{y2} - b_{y1} c_{y2}) + 24 (a_{y1} c_{y2} - b_{y1} c_{y2} - b_{y1} c_{y2}) + 24 (a_{y1} c_{y2} - b_{y1} c_{y2} - b_{y1} c_{y2}) + 24 (a_{y1} c_{y2} - b_{y1} c_{y2} - b_{y1} c_{y2}) + 24 (a_{y1} c_{y2} - b_{y1} c_{y2} - b_{y1} c_{y2}) + 24 (a_{y1} c_{y2} - b_{y1} c_{y2} - b_{y1} c_{y2}) + 24 (a_{y1} c_{y2} - b_{y1} c_{y2} - b_{y1} c_{y2}) + 24 (a_{y1} c_{y2} - b_{y1} c_{y2} - b_{y1} c_{y2}) + 24 (a_{y1} c_{y2} - b_{y1} c_{y2} - b_{y1} c_{y2}) + 24 (a_{y1} c_{y2} - b_{y1} c_{y2} - b_{y1} c_{y2}) + 24 (a_{y1} c_{y2} - b_{y1} c_{y2} - b_{y1} c_{y2}) + 24 (a_{y1} c_{y2} - b_{y1} c_{y2} - b_{y1} c_{y2}) + 24 (a_{y1} c_{y2} - b_{y1} c_{y2} - b_{y1} c_{y2}) + 24 (a_{y1} c_{y2} - b_{y1} c_{y2} - b_{y1} c_{y2}) + 24 (a_{y1} c_{y2} - b_{y1} c_{y2} - b_{y1} c_{y2}) + 24 (a_{y1} c_{y2} - b_{y1} c_{y2} - b_{y1} c_{y2}) + 24 (a_{y1} c_{y2} - b_{y1} c_{y2} - b_{y1} c_{y2}) + 24 (a_{y1} c_{y2} - b_{y1} c_{y2} - b_{y1} c_{y2}) + 24 (a_{y1} c_{y2} - b_$ $(a_{x1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x2} d_{y2} - a_{y2} d_{x2}) (b_{x1} d_{y2} - b_{y1} d_{x2}) - 6 (a_{x1} b_{y1} - a_{y1} d_{x2}) - 6 (a_{x1} b_{y1} - a_{y1$ $(a_{u1} b_{u1}) (a_{x1} b_{u2} - a_{u1} b_{x2}) (a_{x1} d_{u2} - a_{u1} d_{x2})^2 (b_{x1} c_{u2} - b_{u1} c_{x2})^2 - 24 (a_{x1} b_{u1} - a_{u1} b_{x1}) (a_{x1} b_{u2} - a_{u1} b_{x2})^2 - 24 (a_{x1} b_{u1} - a_{u1} b_{x1}) (a_{x1} b_{u2} - a_{u1} b_{x2})^2 - 24 (a_{x1} b_{u1} - a_{u1} b_{x1}) (a_{x1} b_{u2} - a_{u1} b_{x2})^2 - 24 (a_{x1} b_{u1} - a_{u1} b_{x1}) (a_{x1} b_{u2} - a_{u1} b_{x2})^2 - 24 (a_{x1} b_{u1} - a_{u1} b_{x1}) (a_{x1} b_{u2} - a_{u1} b_{x2})^2 - 24 (a_{x1} b_{u1} - a_{u1} b_{x1}) (a_{x1} b_{u2} - a_{u1} b_{x2})^2 - 24 (a_{x1} b_{u1} - a_{u1} b_{x1}) (a_{x1} b_{u2} - a_{u1} b_{x2}) (a_{x1} b_{u2} - a_{u1} b_{x2})^2 - 24 (a_{x1} b_{u1} - a_{u1} b_{x1}) (a_{x1} b_{u2} - a_{u1} b_{x2})^2 - 24 (a_{x1} b_{u1} - a_{u1} b_{x1}) (a_{x1} b_{u2} - a_{u1} b_{x2})^2 - 24 (a_{x1} b_{u1} - a_{u1} b_{x1}) (a_{x1} b_{u2} - a_{u1} b_{x2})^2 - 24 (a_{x1} b_{u1} - a_{u1} b_{x1}) (a_{x1} b_{u2} - a_{u1} b_{x2})^2 - 24 (a_{x1} b_{u1} - a_{u1} b_{x1}) (a_{x1} b_{u2} - a_{u1} b_{x2})^2 - 24 (a_{x1} b_{u1} - a_{u1} b_{x1}) (a_{x1} b_{u2} - a_{u1} b_{x2})^2 - 24 (a_{x1} b_{u1} - a_{u1} b_{x1}) (a_{x1} b_{u2} - a_{u1} b_{x1}) (a_{x1} b_{u2} - a_{u1} b_{x2})^2 - 24 (a_{x1} b_{u1} - a_{u1} b_{x1}) (a_{x1} b_{u2} - a_{u1} b_{x2})^2 - 24 (a_{x1} b_{u1} - a_{u1} b_{x1}) (a_{x1} b_{u2} - a_{u1} b_{x1}) (a_{x1} b_{u2} - a_{u1} b_{x2})^2 - 24 (a_{x1} b_{u1} - a_{u1} b_{x1}) (a_{x1} b_{u2} - a_{u1} b_{x2})^2 - 24 (a_{x1} b_{u1} - a_{u1} b_{x1}) (a_{x1} b_{u2} - a_{u1} b_{x2}) (a_{x1} b_{u2} - a_{u1} b_{x1}) (a_{x1} b_{u2} - a_{u1} b_{x2}) (a_{x1} b_{u$ $a_{y1}\,b_{x2})\,(a_{x1}\,c_{y2}-a_{y1}\,c_{x2})\,(a_{x1}\,d_{y2}-a_{y1}\,d_{x2})\,(b_{x1}\,c_{y2}-b_{y1}\,c_{x2})\,(b_{x1}\,d_{y2}-b_{y1}\,d_{x2})+12\,(a_{x1}\,b_{y1}-a_{y1}\,d_{$ $(a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (b_{x1} d_{y2} - b_{y1} d_{x2}) (b_{x2} d_{y2} - b_{y2} d_{x2}) + 12 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} b_{x2}) (a_$ $(a_{y1} c_{x1})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) + 6 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - b_{y1} c_{x1}) (a_{x1} c_{y1} - a_{y1} b_{x1}) (a_{x1$ $(a_{y1} c_{x1})^2 (b_{x1} b_{y2} - b_{x2} b_{y1})^2 (c_{x1} d_{y2} - c_{y1} d_{x2}) - 10 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (b_{x1} b_{y2} - b_{x2} b_{y1})^2 (b_{x1} d_{y2} - b_{y2} b_{y1})^2 (b_{x1} d_{y2} - b_{y2} b_{y1})^2 (b_{y1} d_{y2}$ $b_{y1} d_{x2}$) $-42 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x2} d_{y1} - a_{y1} d_{x2})^2 (a_{x2} d_{y2} - a_{y1} d_{x2})^2 (a_{x2} d_{y2} - a_{y1} d_{x2})^2 (a_{x2} d_{y1} - a_{y1} d_{x2})^2 (a_{x2} d_{y2} - a_{y1} d_{x2})^2 (a_{x2} d_{y2} - a_{y1} d_{x2})^2 (a_{x2} d_{y2} - a_{y2} d_{x2}) (a_{x2} d_{y2} - a_{y1} d_{x2})^2 (a_{x2} d_{y2} - a_{y2} d_{y2})^2 (a_{x2} d_{y2} - a_{y2} d_{y2} - a_{y2} d_{y2} - a_{y2} d_{y2})^2 (a_{x2} d_{y2} - a_{y2} d_{$ $(b_{y1} c_{x2}) + 24 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x1} b_{y2} - a_{y1} b_{x2}) (c_{y2} d_{x1} - c_{x2} d_{y1}) (c_{x2} d_{y2} - c_{y2} d_{x2}) +$ $36\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(b_{x1}\,c_{y2}-b_{y1}\,c_{x2}\right)\left(b_{x2}\,c_{y2}-b_{y2}\,c_{x2}\right)+$ $24\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)^{2}\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(b_{x1}\,d_{y1}-b_{y1}\,d_{x1}\right)\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)+$ $60\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(b_{x1}\,b_{y2}-b_{x2}\,b_{y1}\right)\left(b_{x1}\,c_{y2}-a_{y1}\,d_{x2}\right)$ $b_{y1} c_{x2}$) + 24 $(a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x1}) (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} d_{y2} - b_{y2} b_{y1}) (b_{$ $(b_{y1} d_{x2}) - 12(a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) (d_{x1} d_{y2} - d_{x2} d_{y1}) - (d_{x1} d_{y2} - d_{x2} d_{y1}) - (d_{x1} d_{y2} - d_{y1} d_{y2})^2 (a_{y1} d_{y2} - d_{y1} d_{y2})^2 (a_{y1} d_{y2} - d_{y2} d_{y1}) - (d_{y1} d_{y2} - d_{y1} d_{y2})^2 (a_{y1} d_{y2} - d_{y2} d_{y1}) - (d_{y1} d_{y2} - d_{y2} d_{y2} - d_{y2} d_{y2}) - (d_{y1} d_{y2} - d_{y2} d_{y2} - d_{y2} d_{y2}) - (d_{y1} d_{y2} - d_{y2} d_{y2} - d_{y2} d_{y2}) - (d_{y1} d_{y2} - d_{y2} d_{y2} - d_{y2} d_{y2}) - (d_{y1} d_{y2} - d_{y2} d_{y2} - d_{y2} d_{y2}) - (d_{y1} d_{y2} - d_{y2} d_{y2} - d_{y2} d_{y2}) - (d_{y1} d_{y2} - d_{y2} d_{y2} - d_{y2} d_{y2}) - (d_{y1} d_{y2} - d_{y2} d_{y2} - d_{y2} d_{y2}) - (d_{y1} d_{y2} - d_{y2} d_{y2} - d_{y2} d_{y2}) - (d_{y1} d_{y2} - d_{y2} d_{y2} - d_{y2} d_{y2}) - (d_{y1} d_{y2} - d_{y2} d_{y2} - d_{y2} d_{y2}) - (d_{y1} d_{y2} - d_{y2} d_{y2} - d_{y2} d_{y2}) - (d_{y1} d_{y2} - d_{y2} d_{y2} - d_{y2} d_{y2}) - (d_{y1} d_{y2} - d_{y2} d_{y2} - d_{y2} d_{y2}) -$ $12\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(b_{x1}\,d_{y1}-b_{y1}\,d_{x1}\right)\left(b_{x2}\,d_{y2}-b_{y2}\,d_{x2}\right)+$ $18\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)^{2}\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)^{2}-12\left(a_{x1}\,b_{y1}-a_{y1}\,d_{x2}\right)^{2}$ $(a_{y1} b_{x1})^3 (a_{x1} d_{y1} - a_{y1} d_{x1}) (b_{x2} d_{y2} - b_{y2} d_{x2})^2 - 24 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x2})^2 + (a_{x1} d_{y1} -$ $(a_{y1} d_{x1}) (b_{x1} d_{y1} - b_{y1} d_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y1} - a_{y1} b_{x2}) (a_{x1} d_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y1} - a_{y1} b_{x2}) (a_{x$ $(a_{y1} d_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) (b_{y2} d_{x1} - b_{x2} d_{y1}) - 18 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} d_{y2} - a_{y1} b_{x2})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (a_{y1} d_{y2} - a_{y1} d_{y2})^2 (a_{y1} d_{y2} - a_{y1}$ $(a_{y1} d_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1})^2 + 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{y2} d_{x1} - b_{x2} d_{y1})^2 - (a_{y1} d_{x2}) (b_{y2} d_{x1} - b_{y2} d_{y1})^2 + (a_{y1} d_{y2} - a_{y1} d_{y2}) (a_{y2} d_{y1} - a_{y1} d_{y2})^2 - (a_{y1} d_{y2} - a_{y1} d_{y2}) (a_{y2} d_{y1} - a_{y1} d_{y2})^2 - (a_{y1} d_{y2} - a_{y1} d_{y2}) (a_{y2} d_{y1} - a_{y1} d_{y2})^2 - (a_{y1} d_{y2} - a_{y1} d_{y2}) (a_{y2} d_{y1} - a_{y1} d_{y2})^2 - (a_{y1} d_{y2} - a_{y1} d_{y2}) (a_{y2} d_{y1} - a_{y1} d_{y2})^2 - (a_{y1} d_{y2} - a_{y1} d_{y2}) (a_{y2} d_{y1} - a_{y1} d_{y2})^2 - (a_{y1} d_{y2} - a_{y1} d_{y2}) (a_{y2} d_{y1} - a_{y1} d_{y2})^2 - (a_{y1} d_{y2} - a_{y1} d_{y2})^2 - (a_{y1} d_{y1} - a_{y1} d_{y1} - a_{y1} d_{y1})^2 - (a_{y1} d_{y1} - a_{y1} d_{y1} - a_{y1} d_{y1})^2 - (a_{y1} d_{y1} - a_{y1} d_{y1} - a_{y1} d_{y1})^2 - (a_{y1} d_{y1} - a_{y1} d_{y1} - a_{y1} d_{y1})^2 - (a_{y1} d_{y1} - a_{y1} d_{y1} - a_$ $24\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{3}\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)\left(a_{x2}\,d_{y2}-a_{y2}\,d_{x2}\right)\left(c_{x2}\,d_{y2}-c_{y2}\,d_{x2}\right)-12\left(a_{x1}\,b_{y1}-a_{y1}\,d_{x1}\right)\left(a_{x2}\,d_{y2}-a_{y2}\,d_{x2}\right)$ $(a_{x1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x2} d_{y2} - a_{y2} d_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1}) + 12 (a_{x1} a_{y2} - a_{y1} d_{x2}) (a_{x2} d_{y2} - a_{y2} d_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) + 12 (a_{x1} a_{y2} - a_{y1} d_{x2}) (a_{x2} d_{y2} - a_{y2} d_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) + 12 (a_{x1} a_{y2} - a_{y1} d_{x2}) (a_{x2} d_{y2} - a_{y2} d_{x2}) (a_{x2} d_{y2} - a_{y1} d_{x2}) (a_{x2} d_{y2} - a_{y2} d_{x2}) (a_{x2} d_{y2} - a_{y2} d_{x2}) (a_{x2} d_{y2} - a_{y1} d_{x2}) (a_{x2} d_{y2} - a_{y2} d_{$ $(a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1}) - 36 (a_{x1} a_{y2} - b_{y1} c_{x2}) (a_{x2} a_{y1}) (a_{x2} a_{y1} a_{y2} - a_{y1} a_{y2}) - 36 (a_{x2} a_{y2} - a_{y1} a_{y2}) (a_{x2} a_{y1} a_{y2} - a_{y1} a_{y2} a_{y2}) (a_{x2} a_{y1} a_{y2} - a_{y1} a_{y2} a_{y2}) (a_{x2} a_{y1} a_{y2} - a_{y1} a_{y2} a_{y2} a_{y2} a_{y2}) (a_{x2} a_{y1} a_{y2} a_{y2$ $(a_{x2} \, a_{y1}) \, (a_{x1} \, b_{y1} - a_{y1} \, b_{x1})^2 \, (a_{x1} \, c_{y2} - a_{y1} \, c_{x2}) \, (b_{x1} \, d_{y2} - b_{y1} \, d_{x2}) \, (d_{x1} \, d_{y2} - d_{x2} \, d_{y1}) + 72 \, (a_{x1} \, a_{y2} - a_{y1} \, c_{x2}) \, (a_{y1} \, d_{y2} - a_{y1} \, d_{y2}) \, (a_$ $(a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2})^2 - 48 (a_{x1} a_{y2} - a_{y1} c_{x2}) (a_{x2} a_{y1} a_{y2} - a_{y1} a_{y2})^2 - 48 (a_{x2} a_{y2} - a_{y1} a_{y2} a_{y2} - a_{y1} a_{y2})^2 - 48 (a_{x2} a_{y2} - a_{y1} a_{y2} a_{y2}$ $(a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (b_{x1} d_{y1} - b_{y1} d_{x1}) (b_{x1} d_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y$ $b_{y1} d_{x2}$) $-24 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (b_{x1} d_{y1} - a_{y1} d_{x2})$ $b_{y1} d_{x1}$) $(b_{x1} d_{y2} - b_{y1} d_{x2}) - 72 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y$ $a_{y1} d_{x2}$ $(a_{x2} c_{y2} - a_{y2} c_{x2}) - 12 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y2} a_{y1}) (a_{y1} c_{y2} - a_{y1} c_{y2}) (a_{y1} c_{y2} - a_{y2} c_{y2}) - 12 (a_{y1} c_{y2} - a_{y2} c_{y2}) (a_{y2} c_{y2} - a_{y2} c_{y2}) (a_{y1} c_{y2} - a_{y2} c_{y2}) (a_{y2} c_{y2} - a_{y2} c_{y2}) (a$ $(a_{y1} d_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1})^2 - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x2} c_{y2} - a_{y2} c_{x2}) (b_{x1} d_{y2} - a_{y2} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 - 12 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x2} c_{y2} - a_{y2} c_{x2}) (b_{x1} d_{y2} - a_{y2} c_{x2}) (a_{x2} c_{y2} - a_{y2} c_{x2}) (a_{x1} d_{y2} - a_{y2} c_{x2}) (a_{x2} c_{y2} - a_{y2}$ $(b_{y1} d_{x2}) + 24 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1}) (d_{x1} d_{y2} - a_{y1} c_{x2})$ $(a_{x2} d_{y1}) - 24 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} d_{x1} - a_{x2} d_{y1}) (b_{x1} d_{y1} - a_{y1} d_{x2}) (a_{y2} d_{x1} - a_{x2} d_{y1}) (b_{x1} d_{y1} - a_{y1} d_{x2}) (a_{y2} d_{x1} - a_{y2} d_{y1}) (a_{y1} d_{y2} - a_{y1} d_{x2}) (a_{y2} d_{x1} - a_{y2} d_{y1}) (a_{y1} d_{y2} - a_{y1} d_{x2}) (a_{y2} d_{x1} - a_{y2} d_{y1}) (a_{y1} d_{y2} - a_{y1} d_{x2}) (a_{y2} d_{x1} - a_{y2} d_{y1}) (a_{y2} d_{x1} - a_{y2} d_{y2}) (a_{y2} d_{x2} - a_{y2} d_{y2}) (a_{y$ $b_{y1} d_{x1}$)+72 $(a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (b_{x1} d_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (b_{x1} d_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^$ $b_{y1} d_{x2}$)+144 $(a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} c_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x2}) (a_{x1}$ $a_{y1} d_{x1}) (c_{x2} d_{y2} - c_{y2} d_{x2}) - 18 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x2} c_{y2} - b_{y1} c_{x2}) (b_{$ $b_{y2} c_{x2}$) - 24 $(a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{y2} d_{x1} - a_{x2} d_{y1}) (c_{x2} d_{y2} - c_{y2} d_{x2})$ - $72\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)^{2}\left(d_{x1}\,d_{y2}-d_{x2}\,d_{y1}\right) 72\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)^{2}\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(b_{x1}\,b_{y2}-b_{x2}\,b_{y1}\right)-$

 $144\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(c_{x2}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x2}\right)\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x2}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(a_{x2}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x2}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(a_{x2}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(a_{x2}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(a_{x2}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(a_{x2}\,d_{y2}-a_{y2}\,d_{y2}\right)\left(a_{x2}\,d_{y2}-a_{y2}\,d_{y2}\right)\left(a_{x2}\,d_{y2}-a_{y2}\,d_{y2}\right)\left(a_{x2}\,d_{y2}-a_{y2}\,d_{y2}\right)\left(a_{x2}\,d_{y2}-a_{y2}\,d_{y2}\right)\left(a_{x2}\,d_{y2}-a_{y2}\,d_{y2}\right)\left(a_{x2}\,d_{y2}-a_{y2}\,d_{y2}\right)\left(a_{x2}\,d_{y2}-a_{y2}\,d_{y2}\right)\left(a_{x2}\,d_{y2}-a_{y2}\,d_{y2}\right)\left(a_{x2}\,d_{y2}-a_{y2}\,d_{y2}\right)\left(a_{x2}\,d_{y2}-a_{y2}\,d_{y2}\right)\left(a_{x2}\,d_{y2}-a_{y2}\,d_{y2}\right)\left(a_{x2}\,d_{y2}-a_{y2}\,d_{y2}\right)\left(a_{x2}\,d_{y2}-a_{y2}\,d_{y2}\right)\left(a_{x2}\,d_{y2}-a_{y2}\,d_{y2}\right)\left(a_{x2}\,d_{y2}-a_{y2}\,d_{y2}\right)\left(a_{x2}\,d_{y2}-a_{y2}\,d_{$ $(c_{y2} d_{x2}) - 72 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (c_{x1} c_{y2} - a_{y1}$ $c_{x2}\,c_{y1}) - 72\,(a_{x1}\,c_{y1} - a_{y1}\,c_{x1})\,(a_{x1}\,c_{y2} - a_{y1}\,c_{x2})\,(a_{x1}\,d_{y1} - a_{y1}\,d_{x1})\,(a_{x1}\,d_{y2} - a_{y1}\,d_{x2})^2\,(a_{y2}\,b_{x1} - a_{y1}\,d_{x2})^2\,(a_{y2}\,b_{x2} - a_{y1}\,d_{x2})^2\,(a_{y2}\,b_{x2} - a_{y1}\,d_{x2})^2\,(a_{y2}\,b_{x2} - a_{y2}\,d_{x2})^2\,(a_{y2}\,b_{x2} - a_{y2}\,$ $(a_{x2} b_{y1}) + 4 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x2} c_{y2} - b_{y1} c_{x2}) (b_{x2$ $(b_{y2} c_{x2}) + 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{x2} c_{y2} - b_{y2} c_{x2}) (c_{x1} c_{y2} - b_{y2} c_{x2}) (c_{x2} c_{y2} - b_{y2} c_{x2}) (c_{x1} c_{y2} - b_{y2} c_{x2}) (c_{x2} c_{y2} - b_{y2} c_{x2}) (c_{x1} c_{y2} - b_{y2} c_{x2}) (c_{x2} c_{y2} - b_{y2} c_{y2}) (c_{x2$ $(c_{x2} c_{v1}) + 48 (a_{x1} b_{v1} - a_{v1} b_{x1}) (a_{x1} c_{v1} - a_{v1} c_{x1}) (a_{x1} c_{v2} - a_{v1} c_{x2}) (a_{v2} b_{x1} - a_{x2} b_{v1}) (b_{x1} d_{v1} - a_{v2} b_{v1}) (b_{x1} d_{v2} - a_{v1} c_{v2}) (a_{v2} b_{v1} - a_{v2} b_{v1}) (a_{v1} c_{v2} - a_{v1} c_{v2}) (a_{v2} b_{v1} - a_{v2} b_{v1}) (a_{v1} c_{v2} - a_{v1} c_{v2}) (a_{v2} b_{v1} - a_{v2} b_{v1}) (a_{v1} c_{v2} - a_{v1} c_{v2}) (a_{v2} b_{v1} - a_{v2} b_{v1}) (a_{v1} c_{v2} - a_{v1} c_{v2}) (a_{v2} c_{v2} - a_{v2} c_{v2}) (a_{v2}$ $b_{y1} d_{x1}$) $(b_{x1} d_{y2} - b_{y1} d_{x2}) + 16 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{y2} b_{x1} - a_{x2} b_{y1}) (c_{x1} d_{y2} - c_{y1} d_{x2}) (c_{y2} d_{x1} - a_{y2} b_{y1}) (c_{x1} d_{y2} - c_{y1} d_{x2}) (c_{y2} d_{x1} - a_{y2} b_{y1}) (c_{x1} d_{y2} - c_{y1} d_{x2}) (c_{y2} d_{x1} - a_{y2} b_{y1}) (c_{x1} d_{y2} - c_{y1} d_{x2}) (c_{y2} d_{x1} - a_{y2} b_{y1}) (c_{x1} d_{y2} - c_{y1} d_{x2}) (c_{y2} d_{x1} - a_{y2} b_{y1}) (c_{x1} d_{y2} - c_{y1} d_{x2}) (c_{y2} d_{x1} - a_{y2} b_{y1}) (c_{x1} d_{y2} - c_{y1} d_{x2}) (c_{y2} d_{x1} - a_{y2} b_{y1}) (c_{x1} d_{y2} - c_{y1} d_{x2}) (c_{y2} d_{x1} - a_{y2} b_{y1}) (c_{x1} d_{y2} - c_{y1} d_{x2}) (c_{y2} d_{x1} - a_{y2} b_{y1}) (c_{x1} d_{y2} - c_{y1} d_{x2}) (c_{y2} d_{x1} - a_{y2} b_{y1}) (c_{x1} d_{y2} - c_{y1} d_{x2}) (c_{y2} d_{x1} - a_{y2} b_{y1}) (c_{x1} d_{y2} - c_{y1} d_{x2}) (c_{y2} d_{x1} - a_{y2} b_{y1}) (c_{x1} d_{y2} - c_{y1} d_{x2}) (c_{y2} d_{x1} - a_{y2} b_{y1}) (c_{x1} d_{y2} - c_{y1} d_{x2}) (c_{y2} d_{x1} - a_{y2} b_{y1}) (c_{x1} d_{y2} - c_{y1} d_{x2}) (c_{y2} d_{x1} - a_{y2} b_{y1}) (c_{x2} d_{x2} - a_{y2} b_{y2}) (c_{x2} d_{x2} - a_{y2} b_{y2} - a_{y2} b_{y2}) (c_{$ $(c_{x2} d_{y1}) + 48 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) (c_{x1} c_{y2} - a_{y1} d_{x2}) (c_{x$ $(c_{x2} c_{y1}) - 32 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{y2} b_{x1} - a_{x2} b_{y1}) (c_{x1} c_{y2} - c_{x2} c_{y1}) (d_{x1} d_{y2} - d_{x2} d_{y1}) - (d_{x1} d_{y2} - d_{x$ $4 \left(a_{x1} \, b_{y1} - a_{y1} \, b_{x1}\right)^3 \left(a_{y2} \, c_{x1} - a_{x2} \, c_{y1}\right) \left(b_{x1} \, c_{y2} - b_{y1} \, c_{x2}\right) \left(d_{x1} \, d_{y2} - d_{x2} \, d_{y1}\right) + 12 \left(a_{x1} \, b_{y1} - a_{y2} \, b_{y1} \, c_{y2}\right) + 12 \left(a_{x1} \, b_{y2} - a_{y2} \, d_{y1}\right) + 12 \left(a_{x1} \, b_{y2} - a_{y2} \, d_{y2}\right) + 12 \left(a_{x1} \, b_{y2} - a_{y2} \, d_{y2}\right) + 12 \left(a_{x1} \, b_{y2} - a_{y2} \, d_{y2}\right) + 12 \left(a_{x1} \, b_{y2} - a_{y2} \, d_{y2}\right) + 12 \left(a_{x2} \, b_{y2} - a_{y2$ $(a_{y1} b_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{y2} c_{x1} - a_{x2} c_{y1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x1} d_{y2} - b_{y1} d_{x2}) + 4 (a_{x1} b_{y1} - a_{y1} d_{x2}) + 4 (a_{x1} b_{y1} - a_{y1$ $(a_{y1} b_{x1})^3 (a_{y2} c_{x1} - a_{x2} c_{y1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) (c_{y2} d_{x1} - c_{x2} d_{y1}) + 8 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{y2} c_{x1} - a_{y1$ $(a_{x2} c_{y1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) (c_{y2} d_{x1} - c_{x2} d_{y1}) + 12 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} c_{y2}) (a_{y1} d_{y2} - a_{y1} c_{y2}) (a_{y2} d_{y1} - a_{y1} c_{y2}) (a_{y2} d_{y1} - a_{y1} c_{y2}) (a_{y1} d_{y2} - a_{y1} c_{y2}) (a_{y2} d_{y1} - a_{y1} c_{y2}) (a_{y1} d_{y2} - a_{y1} c_{y2}) (a_{y2} d_{y1} - a_{y1} c_{y2}) (a_{y1} d_{y2} - a_{y1} c_{y2}) (a_{y2} d_{y1} - a_{y1} c_{y2}) (a_{y1} d_{y2} - a_{y1} c_{y2}) (a_{y$ $(a_{y1} d_{x1}) (a_{x2} d_{y2} - a_{y2} d_{x2}) - 36 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} c_{x2})^2 (a_{y1} c_{y2} - a_{y1} c_{y2}) (a_{y1} d_{y1} - a_{y1} c_{y1})^2 (a_{y1} c_{y2} - a_{y1} c_{y2}) (a_{y1} d_{y1} - a_{y1} c_{y1})^2 (a_{y2} c_{y2} - a_{y1} c_{y2}) (a_{y1} d_{y1} - a_{y1} c_{y1})^2 (a_{y1} c_{y2} - a_{y1} c_{y2}) (a_{y1} d_{y1} - a_{y1} c_{y2}) (a_{y1} d_{y1} - a_{y1} c_{y1})^2 (a_{y1} c_{y1} - a_{y1} c_{y1} c_{y1})^2 (a_{y1} c_{y1} - a_{y1} c_{y1} c_{y1} c_{y1})^2 (a_{y1} c_{y1} c_$ $(a_{y1} d_{x1}) (c_{x1} d_{y2} - c_{y1} d_{x2}) + 12 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} d_{y1} - a_{y1} d_{x1}) (c_{x2} d_{y2} - a_{y2} a_{y1}) (a_{y1} c_{y1} - a_{y1} c_{y1})^3 (a_{y1} c_{y1} - a_{y1} d_{y1}) (c_{y2} d_{y2} - a_{y2} a_{y1}) (a_{y1} c_{y1} - a_{y1} c_{y1})^3 (a_{y1} c_{y1} - a_{y1} d_{y1}) (c_{y2} d_{y2} - a_{y2} a_{y1}) (a_{y1} c_{y1} - a_{y1} c_{y1})^3 (a_{y1} c_{y1} - a_{y1} d_{y1}) (a_{y1} c_{y1} - a_{y1} c_{y1}) (a_{y1} c_{y1} - a_{y1} c_{y1})$ $(c_{y2} d_{x2}) - 16 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{y2} c_{x1} - a_{x2} c_{y1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) (c_{y2} d_{x1} - c_{x2} d_{y1}) +$ $72\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)\left(a_{x2}\,c_{y2}-a_{y2}\,c_{x2}\right)\left(c_{x1}\,d_{y2}-c_{y1}\,d_{x2}\right) 72\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(a_{y2}\,c_{x1}-a_{x2}\,c_{y1}\right)\left(c_{x1}\,c_{y2}-c_{x2}\,c_{y1}\right)+$ $24\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(b_{x1}\,c_{y1}-b_{y1}\,c_{x1}\right)^{2} 24\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{2}\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)\left(b_{x1}\,c_{y2}-b_{y1}\,c_{x2}\right)\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)+$ $72\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)\left(a_{y2}\,d_{x1}-a_{x2}\,d_{y1}\right)\left(c_{x1}\,d_{y2}-c_{y1}\,d_{x2}\right) 36 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{y2} d_{x1} - a_{x2} d_{y1}) (c_{x2} d_{y2} - c_{y2} d_{x2})$

 $c_5 = 30 \left(a_{x1} \, a_{y2} - a_{x2} \, a_{y1} \right) \left(a_{x1} \, b_{y2} - a_{y1} \, b_{x2} \right) \left(a_{x1} \, d_{y1} - a_{y1} \, d_{x1} \right)^4 - 120 \left(a_{x1} \, a_{y2} - a_{x2} \, a_{y1} \right) \left(a_{x1} \, b_{y2} - a_{y2} \, a_{y2} \right) \left(a_{x1} \, b_{y2} - a_{y2}$ $a_{y1} b_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^3 (a_{x1} d_{y2} - a_{y1} d_{x2}) - 60 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x1} d_{y1} - a_{y1} c_{x2})^2 (a_{x1} d_{y2} - a_{y1} c_{x2})^2 (a_{x1} d_{y1} - a_{y1$ $(a_{y1} d_{x1})^3 - 60 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^3 + 180 (a_{x1} a_{y2} - a_{y1} c_{x2})^2 (a_{x1} a_{y2} - a_{y1} c_{x2})^2 (a_{x1} a_{y2} - a_{y1} a_{x2})^2 (a_{x1} a_{$ $a_{x2} a_{y1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 + 180 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} c_{y2} - a_{y1} d_{x2})^2 + 180 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} c_{y2} - a_{y1} d_{x2})^2 + 180 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y2} - a_{y1} d_{x2})^2 + 180 (a_{x1} a_{y1} - a_{y1} d_{x2})^2 + 180 (a_{x1} a_{y1} - a_{y1} d_{x2})^2 + 180 (a_{x1} a_{y1} - a_{y1} d_{x2})^2 + 180 (a_{x1} a_{y2} - a_{y1} d_{x2})^2 + 180 (a_{x1} a_{y2} - a_{y1} d_{x2})^2 + 180 (a_{x1} a_{y2} - a_{y1} d_{x2})^2 + 180 (a_{x1} a_{y1} - a_{y1} d_{$ $(a_{u1} c_{x2})^2 (a_{x1} d_{u1} - a_{u1} d_{x1})^2 (a_{x1} d_{u2} - a_{u1} d_{x2}) + 180 (a_{x1} b_{u2} - a_{u1} b_{x2})^2 (a_{x1} c_{u2} - a_{u1} c_{x2}) (a_{x1} d_{u1} - a_{u1} d_{x2})^2$ $(a_{x1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) + 60 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 - (a_{x1} d_{y2} - a_{y1} d_{x2})^3 (a_{x1} d_{y2} - a_{y1} d_{x2})^2$ $120\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)^{3}-180\left(a_{x1}\,a_{y2}-a_{y1}\,d_{x2}\right)^{3}-1$ $a_{x2} a_{y1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 - 180 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} c_{y2} - a_$ $(a_{x1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 - 120 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (a_{x1} d_{y1} - a_{y1} d_{x2})^3 (a_{x1} d_{y1} - a_{$ $a_{u1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) - 6 (a_{x1} c_{y2} - a_{y1} c_{x2})^5 (a_{x1} d_{y1} - a_{y1} d_{x1}) + 30 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y2} - a_{y1} c_{x2})^5 (a_{x1} d_{y1} - a_{y1} d_{x1}) + 30 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y2} - a_{y1} a_{x2}) + 30 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y2} - a_{y1} a_{x2}) + 30 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y2} - a_{y1} a_{x2}) + 30 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y2} - a_{y1} a_{x2}) + 30 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y2} - a_{y1} a_{x2}) + 30 (a_{x1} a_{y2} - a_{y1} a_{x2})$ $(a_{y1} b_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^4 + 60 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^3 +$ $60\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)^{2}\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)^{3}+60\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)\left(a_{x1}\,c_{y2}-a_{y1}\,b_{x2}\right)^{2}$ $a_{y1} c_{x2})^3 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 + 6 (a_{x1} c_{y2} - a_{y1} c_{x2})^5 (a_{x1} d_{y2} - a_{y1} d_{x2}) + 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{y1} b_{x2})^2 + 6 (a_{x1} c_{y2} - a_{y1} c_{x2})^5 (a_{x1} d_{y2} - a_{y1} d_{x2}) + 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{y1} b_{x2})^2 + 6 (a_{x1} c_{y2} - a_{y1} c_{x2})^5 (a_{x1} d_{y2} - a_{y1} d_{x2}) + 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{y1} b_{x2})^2 + 6 (a_{x1} c_{y2} - a_{y1} c_{x2})^5 (a_{x1} d_{y2} - a_{y1} d_{x2}) + 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{y1} b_{x2})^2 + 6 (a_{x1} c_{y2} - a_{y1} c_{x2})^5 (a_{x1} d_{y2} - a_{y1} d_{x2}) + 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{y1} b_{x2})^2 + 6 (a_{x1} c_{y2} - a_{y1} c_{x2})^5 (a_{x1} d_{y2} - a_{y1} d_{x2}) + 12 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (a_{y1} d_{x2})^2 + 6 (a_{x1} c_{y2} - a_{y1} c_{x2})^5 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 + 6 (a_{x1} c_{y2} - a_{y1} c_{x2})^5 (a_{x1} d_{y2} - a_{y1} d_{x2}) + 12 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (a_{y1} d_{x2})^2 + 6 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 + 6 (a$ $(a_{x2} b_{y1}) (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} d_{y1} - b_{y1} d_{x1})^2 - 24 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} b_{y2} - a_{y1} b_{y1})^2 - 24 (a_{y1} b_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1})^2 - 24 (a_{y1} b_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1})^2 - 24 (a_{y1} b_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1})^2 - 24 (a_{y1} b_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1})^2 - 24 (a_{y1} b_{y1} - a_{y1} b_{y1} - a_{$ $(b_{x2} b_{y1}) (b_{x1} d_{y1} - b_{y1} d_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} c_{y2} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{y2} b_{x1} - a_{y2} b_{y1}) (a_$ $b_{y1}\,c_{x2})^2\,(b_{x1}\,d_{y1}-b_{y1}\,d_{x1})-12\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})^2\,(b_{x1}\,b_{y2}-b_{x2}\,b_{y1})^2\,(b_{x1}\,c_{y2}-b_{y1}\,c_{x2})\,(b_{x1}\,d_{y1}-b_{y2})^2\,(b_{x1}\,d_{y1}-b_{y2})^2\,(b_{x2}\,d_{y1}-b_{y2})^2\,(b_{x2}\,d_{y1}-b_{y2})^2\,(b_{x2}\,d_{y1}-b_{y2})^2\,(b_{x2}\,d_{y1}-b_{y2})^2\,(b_{x2}\,d_{y2}-b_{y2}-b_{y2})^2\,(b_{x2}\,d_{y2}-b_{y2}-b_{y2})^2\,(b_{x2}\,d_{y2}-b_{y2}-b_{y2}-b_{y2}-b_{y2})^2\,(b_{x2}\,d_{y2}-b_{$ $b_{y1}\,d_{x1}) + 2\,(a_{x1}\,c_{y1} - a_{y1}\,c_{x1})^4\,(a_{y2}\,c_{x1} - a_{x2}\,c_{y1})\,(b_{y2}\,c_{x1} - b_{x2}\,c_{y1}) + 12\,(a_{x1}\,b_{y1} - a_{y1}\,b_{x1})^2\,(a_{y2}\,b_{x1} - a$ $(a_{x2} b_{y1}) (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} d_{y2} - b_{y1} d_{x2})^{2} + 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^{2} (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} c_{y2} - a_{y2} b_{y1}) (b_{x1} c_{y2} - a_{y1} b_{x1})^{2}$

 $(b_{y1} c_{x2})^2 (b_{x1} d_{y2} - b_{y1} d_{x2}) + 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} b_{y2} - b_{x2} b_{y1})^2 (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x1} d_{y2} - b_{y1} c_{x2})^2 (b_{x1} d_{y2} - b_{y1} d_{x2}) + 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} b_{y2} - b_{x2} b_{y1})^2 (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x1} d_{y2} - b_{y1} c_{x2})^2 (b_{x1} d_{y2} - b_{y1} d_{x2}) + 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} b_{y2} - b_{x2} b_{y1})^2 (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x1} d_{y2} - b_{y1} c_{x2})^2 (b_{x1} d_{y2} - b_{y1} c_{x2}) (b_{x1} d$ $(b_{y1} d_{x2}) + 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} c_{y2} - b_{y1} c_{x2})^3 + 12 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} b_{x2}) (a_{y1} d_{y2} - b_{y1} c_{y2})^3 + 12 (a_{y1} b_{y1} - a_{y1} b_{y1}) (a_{y1} d_{y2} - b_{y1} c_{y2})^3 + 12 (a_{y1} b_{y1} - a_{y1} b_{y1}) (a_{y1} d_{y1} - a_{y1} b_{y1}) (a_{y1} d_{y2} - b_{y1} c_{y2})^3 + 12 (a_{y1} b_{y1} - a_{y1} b_{y1}) (a_{y1} d_{y1} - a_{y1} d_{y1}) (a_{y1} d_$ $(a_{y1} d_{x1})^3 (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} b_{y2} - b_{x2} b_{y1}) - 96 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} b_{x1}) (a_{x$ $(a_{u1} d_{u1})^3 (b_{u2} c_{x1} - b_{x2} c_{u1}) - 40 (a_{x1} a_{u2} - a_{x2} a_{u1}) (a_{x1} b_{u2} - a_{u1} b_{x2}) (a_{x1} d_{u1} - a_{u1} d_{x1})^3 (b_{x1} c_{u1} - a_{u1} d_{u1})^3 (a_{x1} a_{u2} - a_{u2} a_{u1}) (a_{x1} a_{u2} - a_{u1} b_{u2}) (a_{x1} a_{u1} - a_{u1} d_{u1})^3 (a_{x1} a_{u2} - a_{u2} a_{u1}) (a_{x1} a_{u2} - a_{u1} a_{u2}) (a_{x1} a_{u2} - a_{u1} a_{u2}) (a_{x1} a_{u2} - a_{u1} a_{u2}) (a_{x1} a_{u2} - a_{u2} a_{u1}) (a_{x1} a_{u2} - a_{u2} a_{u2}) (a_{x1} a_{u2} - a_{u2} a_{u2})$ $b_{y1} c_{x1}$) $-36 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} b_{y2} - a_{y1} d_{x2})^2 (a_{y1} d_{y2} - a_{y1} d_{y2}) (a_{y2} b_{y1} - a_{y2} b_{y1}) (a_{y1} d_{y2} - a_{y1} d_{y2}) (a_{y2} d_{y1} - a_{y1} d_{y2}) (a_{y2} d_{y2} - a_{y1} d_{y2}) (a_$ $(b_{x2} b_{y1}) + 96 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{y2} c_{x1} - a_{y1} d_{x2}) (a_{y1} a_{y1} - a_{y1} d_{y2}) (a_{y1} a_{y2} - a_{y1} d_{y2}) (a_{y2} a_{y1} - a_{y1} d_{y2}) (a_{y1} a_{y2} - a_{y1} d_{y2}) (a_{y2} a_{y1} - a_{y1} d_{y2}) (a_{y$ $b_{x2} c_{v1}$)+48 $(a_{x1} a_{v2} - a_{x2} a_{v1}) (a_{x1} c_{v1} - a_{v1} c_{x1}) (a_{x1} d_{v1} - a_{v1} d_{x1})^2 (a_{x1} d_{v2} - a_{v1} d_{x2}) (b_{x1} b_{v2} - a_{v1} d_{v2}) (a_{x1} d_{v2} - a_{v2} d_{v2}) (a_{x1$ $(b_{x2} b_{y1}) + 36 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} b_{y2} - a_{y1} d_{x2})^2$ $(b_{x2} b_{y1}) - 96 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (b_{y2} c_{x1} - a_{y1}$ $b_{x2} c_{y1}$) $-48 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (b_{x1} b_{y2} - a_{y1} d_{x2})^2 (b_{x1} b_{x2} - a_{x2} d_{x2})^2 (b_{x1} b_{x2} - a_{x2}$ $(b_{x2} b_{y1}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2})^3 (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} b_{y2} - b_{x2} b_{y1}) +$ $96\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)^{3}\left(b_{y2}\,c_{x1}-b_{x2}\,c_{y1}\right)+40\left(a_{x1}\,a_{y2}-a_{y1}\,d_{x2}\right)^{3}$ $(a_{x2} a_{y1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^3 (b_{x1} c_{y1} - b_{y1} c_{x1}) + 24 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y2} - a_{y1} a_{x2})^3 (a_{y1} a_{y1} - a_{y1} a_{y2})^3 (a_{y1} a_{y2} - a_{y1} a_{y2}) + 24 (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y1} a_{y2} - a_{y1} a_{y2})^3 (a_{y1} a_{y1} a_{y2} - a_{y1} a_{y2})^3 (a_{y1} a_{y2} - a_{y1} a_{y2} - a_{y1} a_{y2})^3 (a_{y1} a_{y2} - a_{y1} a_{y2} - a_{y1} a_{y2})^3 (a_{y1} a_{y2} - a_{y1} a_{y2} - a_{y1} a_{y2} - a_{y1} a_{y2})^3 (a_{y1} a_{y2} - a_{y1} a_{y2}$ $a_{y1} b_{x2}) \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right)^2 \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right) \left(c_{x1} d_{y1} - c_{y1} d_{x1}\right) - 12 \left(a_{x1} a_{y2} - a_{x2} a_{y1}\right) \left(a_{x1} b_{y2} - a_{y1} d_{x1}\right) + 12 \left(a_{x1} a_{y2} - a_{x2} a_{y1}\right) \left(a_{x1} a_{y2} - a_{x2} a_{y2}\right) \left(a_{x1} a_$ $(a_{u1} b_{u2}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (c_{x1} d_{y1} - c_{y1} d_{x1}) - 6 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} c_{y1} - a_{y1} a_{x2}) (a_{y1} c_{y1} - a_{y1} a_{y2})$ $a_{y1} c_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (c_{x1} d_{y1} - c_{y1} d_{x1}) - 6 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x1} c_{y2} - a_$ $(a_{u1} c_{x2}) (c_{x1} d_{u1} - c_{u1} d_{x1}) + 24 (a_{x1} b_{u1} - a_{u1} b_{x1}) (a_{x1} c_{u1} - a_{u1} c_{x1})^2 (a_{u2} b_{x1} - a_{x2} b_{u1}) (b_{x1} b_{u2} - a_{u1} c_{x1})^2 (a_{u2} b_{x1} - a_{u2} b_{u1}) (a_{x1} b_{u2} - a_{u1} c_{x1})^2 (a_{u2} b_{x1} - a_{u2} b_{u1}) (a_{x1} b_{u2} - a_{u1} c_{x1})^2 (a_{u2} b_{x1} - a_{u2} b_{u1}) (a_{x1} b_{u2} - a_{u1} c_{x1})^2 (a_{u2} b_{x1} - a_{u2} b_{u1}) (a_{x1} b_{u2} - a_{u1} c_{x1})^2 (a_{u2} b_{x1} - a_{u2} b_{u1}) (a_{x1} b_{u2} - a_{u1} c_{x1})^2 (a_{u2} b_{x1} - a_{u2} b_{u1}) (a_{x1} b_{u2} - a_{u1} c_{x1})^2 (a_{u2} b_{x1} - a_{u2} b_{u1}) (a_{x1} b_{u2} - a_{u1} c_{x1})^2 (a_{u2} b_{u1} - a_{u2} b_{u1}) (a_{u1} b_{u2} - a_{u2} b_{u1}) (a_{u2} b_{u2} - a_{u2} b_{u2}) (a_{u2} b_{u2} - a_{u$ $b_{x2}\,b_{y1})\,(c_{x1}\,d_{y1}-c_{y1}\,d_{x1})-24\,(a_{x1}\,a_{y2}-a_{x2}\,a_{y1})\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})^2\,(b_{y2}\,c_{x1}-a_{y1}\,c_{x1})^2$ $b_{x2} c_{y1} (c_{x1} d_{y1} - c_{y1} d_{x1}) - 18 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (b_{x1} d_{y1} - a_{y1} a_{y1}) (a_{y1} c_{y2} - a_{y1} a_{y1}) (a_{y1} c_{y1} - a_{y1} a_{y1} a_{y1}) (a_{y1} c_{y1} - a_{y1} a_{y1} a_{y1} a_{y1} a_{y1}) (a_{y1} c_{y1} a_{y1} a_{y1}$ $(b_{y1} d_{x1})^2 - 18 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1})^2 - b_{y1} d_{x1} d_{x1} d_{x1} d_{x2} + b_{y1} d_{x1} d_$ $18\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(b_{x1}\,d_{y1}-b_{y1}\,d_{x1}\right)^{2}\left(b_{y2}\,c_{x1}-b_{x2}\,c_{y1}\right)-18\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,a_{y1}-a_{y1}\,a_{y1}\right)^{2}\left(a_{x1}\,a_{y1}-a_{y1}\,a_{y1}\right)^{2}\left(a_{x1}\,a_{y1}-a_{y1}\,a_{y1}\right)^{2}\left(a_{x1}\,a_{y1}-a_{y1}\,a_{y1}\right)^{2}\left(a_{x1}\,a_{y1}-a_{y1}\,a_{y1}\right)^{2}\left(a_{x1}\,a_{y1}-a_{y1}\,a_{y1}\right)^{2}\left(a_{x1}\,a_{y1}-a_{y1}\,a_{y1}\right)^{2}\left(a_{x1}\,a_{y1}-a_{y1}\,a_{y1}\right)^{2}\left(a_{x1}\,a_{y1}-a_{y1}\,a_{y1}\right)^{2}\left(a_{x1}\,a_{y1}-a_{y1}\,a_{y1}\right)^{2}\left(a_{x1}\,a_{y1}-a_{y1}\,a_{y1}\right)^{2}\left(a_{x1}\,a_{y1}-a_{y1}\,a_{y1}\right)^{2}\left(a_{x1}\,a_{y1}-a_{y1}\,a_{y1}\right)^{2}\left(a_{x1}\,a_{y1}-a$ $(a_{u1} b_{x1})^2 (a_{x1} b_{u2} - a_{u1} b_{x2}) (a_{y2} c_{x1} - a_{x2} c_{y1}) (b_{x1} d_{y1} - b_{y1} d_{x1})^2 + 36 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} a_{y1})^2 + 36 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} a_{y1})^2 + 36 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{y1})^2 + 36 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{y1})^2 + 36 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{y1})^2 + 36 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{y1})^2 + 36 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{y1}) (a_{x1} a_{y2} - a_{y1} a_{y1}) (a_{x1} a_{y1} - a_{y1} a$ $(a_{x1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (b_{x1} d_{y1} - b_{y1} d_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) + 36 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - b_{y1} d_{x2})$ $(a_{y1} b_{x2})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) + 24 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} a_{y2}) + 24 (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y1} a_{y2} - a_{y1} a_{y2}) + 24 (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y1} a_{y2} - a_{y1} a_{y2}) + 24 (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y1} a_{y2} - a_{y1} a_{y2}) + 24 (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y2} a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y1} a_{y2} - a_{y2} a_{y2}) (a_{y2} a_{y2} - a_{y2} a_{y2}) (a_{y1} a_{y2} - a_{y2} a_{y2}) (a_{y2} a_{y2} - a_{y2} a_{y2} a_{y2}) (a_{y2} a_{y2} - a_{y2} a_{y2} a_{y2} a_{y2}) (a_{y2} a_{y2} - a_{y2} a_{y2} a_{y2} a_{y2}) (a_{y2} a_{y2} a_{y2} a_{y2} a_{y2} a_{$ $(a_{y1} b_{x1})^2 (b_{x1} d_{y1} - b_{y1} d_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) (b_{y2} c_{x1} - b_{x2} c_{y1}) + 24 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y2} - a_{y2} a_{y1}) (a_{x1} b_{y2} - a_{y2} a_{y1}) (a_{y1} b_{y2} - a_{y2} a_{y1}) (a_{y2} b_{y2} - a_{y2} a_{y2}) (a_{y$ $(a_{x1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (c_{x1} d_{y2} - c_{y1} d_{x2}) + 6 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) + 6 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) + 6 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) + 6 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) + 6 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) + 6 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) + 6 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) + 6 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) + 6 (a_{x1} a_{y2} - a_{y1} a_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y2} - a_{y1} a_{y1}) + 6 (a_{x1} a_{y2} - a_{y1} a_{y1}) (a_{x1} c_{y1} - a_{y1} a_{y1}) + 6 (a_{x1} a_{y2} - a_{y1} a_{y1}) (a_{x1} c_{y1} - a_{y1} a_{y1}) + 6 (a_{x1} a_{y1} - a_{y1} a_{y1} a_{y1}) + 6 (a_{x1} a_{y1} - a_{y1} a_{y1}$ $(a_{x1} c_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (c_{x1} d_{y2} - c_{y1} d_{x2}) + 6 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2})^2$ $a_{u1} c_{x2} (c_{x1} d_{u2} - c_{u1} d_{x2}) - 24 (a_{x1} b_{u1} - a_{u1} b_{x1}) (a_{x1} c_{u1} - a_{u1} c_{x1})^2 (a_{u2} b_{x1} - a_{x2} b_{u1}) (b_{x1} b_{u2} - a_{u1} c_{x1})^2 (a_{u2} b_{x1} - a_{x2} b_{u1}) (a_{x1} b_{u2} - a_{u1} c_{x1})^2 (a_{u2} b_{x1} - a_{x2} b_{u1}) (a_{x1} b_{u2} - a_{u1} c_{x1})^2 (a_{u2} b_{x1} - a_{u2} b_{u1}) (a_{x1} b_{u2} - a_{u1} c_{x1})^2 (a_{u2} b_{x1} - a_{u2} b_{u1}) (a_{x1} b_{u2} - a_{u1} c_{x1})^2 (a_{u2} b_{x1} - a_{u2} b_{u1}) (a_{x1} b_{u2} - a_{u1} c_{x1})^2 (a_{u2} b_{x1} - a_{u2} b_{u1}) (a_{x1} b_{u2} - a_{u1} c_{x1})^2 (a_{u2} b_{x1} - a_{u2} b_{u1}) (a_{x1} b_{u2} - a_{u1} c_{x1})^2 (a_{u2} b_{x1} - a_{u2} b_{u1}) (a_{x1} b_{u2} - a_{u1} c_{x1})^2 (a_{u2} b_{x1} - a_{u2} b_{u1}) (a_{u2} b_{u2} - a_{u1} c_{x1})^2 (a_{u2} b_{u2} - a_{u2} b_{u1}) (a_{u2} b_{u2} - a_{u2} b_{u1}) (a_{u2} b_{u2} - a_{u2} b_{u1}) (a_{u2} b_{u2} - a_{u2} b_{u2}) (a_{u2} b_{u2} - a_$ $b_{x2}\,b_{y1})\,(c_{x1}\,d_{y2}-c_{y1}\,d_{x2})+24\,(a_{x1}\,a_{y2}-a_{x2}\,a_{y1})\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})^2\,(b_{y2}\,c_{x1}-a_{y1}\,c_{x1})^2$ $b_{x2}\,c_{y1})\,(c_{x1}\,d_{y2}-c_{y1}\,d_{x2})-18\,(a_{x1}\,a_{y2}-a_{x2}\,a_{y1})\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})\,(a_{x1}\,c_{y2}-a_{y1}\,c_{x2})^2\,(b_{x1}\,d_{y2}-a_{y1}\,a_{y2})^2$ $(b_{y1} d_{x2})^2 - 18 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (b_{x1} d_{y2} - b_{y1} d_{x2})^2 - (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x2} c_{y2} - a_{y1} c_{x2})^2 - (a_{x2} c_{y2} - a_{y1} c_{x2}) (a_{x2} c_{y2} - a_{y1} c_{x2})^2 - (a_{x2} c_{y2} - a_{y1} c_{x2}) (a_{x2} c_{y2} - a_{y1} c_{x2})^2 - (a_{x2} c_{y2} - a_{y1} c_{x2}) (a_{x2} c_{y2} - a_{y1} c_{x2})^2 - (a_{x2} c_{y2} - a_{y1} c_{x2}) (a_{x2} c_{y2} - a_{y1} c_{x2})^2 - (a_{x2} c_{y2} - a_{y1} c_{x2}) (a_{x2} c_{y2} - a_{y1} c_{x2})^2 - (a_{x2} c_{y2} - a_{y1} c_{x2}) (a_{x2} c_{y2} - a_{y1} c_{x2})^2 - (a_{x2} c_{y2} - a_{y1} c_{x2}) (a_{x2} c_{y2} - a_{y1} c_{x2})^2 - (a_{x2} c_{y2} - a_{y1} c_{x2}) (a_{x2} c_{y2} - a_{y1} c_{x2})^2 - (a_{x2} c_{y2} c_{y2} - a_{y1} c_{x2})^2 - (a_{x2} c_{y2} c_{y2} c_{y2} - a_{y2} c_{y2})^2 - (a_{x2} c_{y2} c_{y2$ $18\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)^{2}\left(b_{y2}\,c_{x1}-b_{x2}\,c_{y1}\right)-18\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}$ $(a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{y2} c_{x1} - a_{x2} c_{y1}) (b_{x1} d_{y2} - b_{y1} d_{x2})^2 + 144 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x2})^2 + 144 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x2})^2 + 144 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x2})^2 + 144 (a_{x1} a_{y2} - a_{y1} b_{x2}) (a_{y1} a_{y2} - a_{y1} a_{y2}) (a_{y2} a_{y1} - a_{y2} a_{y1}) (a_{y2} a_$ $(a_{u1} b_{u1}) (a_{u1} c_{u2} - a_{u1} c_{u2})^2 (a_{u1} d_{u1} - a_{u1} d_{u1}) (c_{u1} d_{u1} - c_{u1} d_{u1}) + 144 (a_{u1} b_{u1} - a_{u1} b_{u1}) (a_{u1} b_{u2} - a_{u1} b_{u2}) (a_{u1} b_{u2} - a_{u1} b_{u2}) (a_{u2} b_{u2} - a_{u1} b_{u2}) (a_{u2} b_{u2} - a_{u2} b_{u2}) (a_{$ $(a_{u1} b_{u2})^2 (a_{u1} c_{u2} - a_{u1} c_{u2}) (a_{u1} d_{u1} - a_{u1} d_{u1}) (c_{u1} d_{u1} - c_{u1} d_{u1}) - 36 (a_{u1} b_{u1} - a_{u1} b_{u1})^2 (a_{u1} d_{u1} - a_{u1} d_{u1})^2 (a_{u1} d_{u1} - a_{u$ $a_{y1} d_{x1}) \left(a_{y2} b_{x1} - a_{x2} b_{y1}\right) \left(b_{x1} b_{y2} - b_{x2} b_{y1}\right) \left(c_{x1} d_{y1} - c_{y1} d_{x1}\right) + 84 \left(a_{x1} a_{y2} - a_{x2} a_{y1}\right) \left(a_{x1} b_{y1} - a_{y1} b_{y1}\right) + 84 \left(a_{x1} a_{y2} - a_{x2} a_{y1}\right) \left(a_{x1} b_{y1} - a_{y1} b_{y1}\right) + 84 \left(a_{x1} a_{y2} - a_{x2} a_{y1}\right) \left(a_{x1} b_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1}\right) + 84 \left(a_{x1} a_{y2} - a_{x2} a_{y1}\right) \left(a_{x1} b_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1}\right) + 84 \left(a_{x1} a_{y2} - a_{x2} a_{y1}\right) \left(a_{x1} b_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1}\right) + 84 \left(a_{x1} a_{y2} - a_{x2} a_{y1}\right) \left(a_{x1} b_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1}\right) + 84 \left(a_{x1} a_{y2} - a_{x2} a_{y1}\right) \left(a_{x1} b_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1}\right) + 84 \left(a_{x1} a_{y2} - a_{x2} a_{y1}\right) \left(a_{x1} b_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1}\right) + 84 \left(a_{x1} a_{y2} - a_{x2} a_{y1}\right) \left(a_{x1} b_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1}\right) + 84 \left(a_{x1} a_{y2} - a_{x2} a_{y1}\right) \left(a_{x1} b_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1}\right) + 84 \left(a_{x1} a_{y1} - a$ $(a_{y1} b_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1}) (b_{y2} c_{x1} - b_{x2} c_{y1}) (c_{x1} d_{y1} - c_{y1} d_{x1}) - 42 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_{y$ $a_{y1} c_{x1}$) $(a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x2} b_{y2} - a_{y2} b_{x2}) (c_{x1} d_{y1} - c_{y1} d_{x1}) + 60 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} c_{y2} - a_{y2} b_{x2}) (a_{y1} c_{y1} d_{y1}) + 60 (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y1} c_{y2} - a_{y2} a_{y2}) (a_{y1} c_{y1} - a_{y1} a_{y1}) (a_{y1} c_{y2} - a_{y2} a_{y1}) (a_{y1} c_{y2} - a_{y2} a_{y2}) (a_{y1} c_{y1} - a_{y1} a_{y1}) (a_{y1} c_{y2} - a_{y2} a_{y2}) (a_{y1} c_{y1} a_{y1} - a_{y1} a_{y1}) (a_{y1} c_{y2} - a_{y2} a_{y2}) (a_{y1} c_{y1} - a_{y2} a_{y1}) (a_{y1} c_{y2} - a_{y2} a_{y2}) (a_{y1} c_{y1} - a_{y2} a_{y2}) (a_{y1} c_{y1} - a_{y2} a_{y2}) (a_{y1} c_{y1} - a_{y2} a_{y2} a_{y2}) (a_{y1} c_{y1} - a_{y2} a_{y2} a_{y2}) (a_{y1} c_{y2} - a_{y2} a_{y2} a_{y2}) (a_{y1} c_{y2} - a_{y2} a_{y2} a_{y2}) (a_{y1} c_{y2} - a_{y2} a_{y2} a_{y2} a_{y2} a_{y2}) (a_{y1} c_{y2} - a_{y2} a_$ $(a_{y1} c_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (b_{x1} c_{y1} - b_{y1} c_{x1}) + 60 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x2})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x2})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x2})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x2})^2 (a_{x1} d_{y1} - a_{y1} d$ $(a_{y1} d_{x1})^2 (b_{x1} c_{y1} - b_{y1} c_{x1}) - 96 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x1} d_{y1} - a_{y1} c_{x2})^2 (a_{y1} c_{y2} - a_{y1} c_{y2})^2 (a_{y1} c_{y2} - a_{y2} c_{y2})^2 (a_{y1} c_{y2} - a_{y2} c_{y2})^2 (a_{y1} c_{y2} - a_{y2} c_{y2})^2 (a_{y2} c_{y2} - a_{y2} c_{y2} c_{y2})^2 (a_{y2} c_{y2} - a_{y2} c_{y2})^2 (a_{y2} c_{y2} - a_{y2} c_{y2} c_{y2})^2 (a_{y2}$ $(a_{y1} d_{x1}) (c_{x1} d_{y2} - c_{y1} d_{x2}) - 96 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x2})^2$

 $(a_{y1} d_{x1}) (c_{x1} d_{y2} - c_{y1} d_{x2}) - 84 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1}) (b_{y2} c_{x1} - a_{y1} d_{x1}) (a_{y1} d_{y2} - a_{y1} d_{y1}) (a_{y1} d_{y2} - a_{y1} d_{y1}) (a_{y2} d_{y1} - a_{y1} d_{y1}) (a_{y1} d_{y2} - a_{y1} d_{y1}) (a_{y2} d_{y1} - a_{y1} d_{y1}) (a_{y2} d_{y1} - a_{y1} d_{y1}) (a_{y1} d_{y2} - a_{y1} d_{y1}) (a_{y1} d_{y1} - a_{y1} d_{y1}) (a_{y$ $b_{x2}\,c_{y1})\,(c_{x1}\,d_{y2}-c_{y1}\,d_{x2})+12\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})^2\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})^2\,(a_{x2}\,b_{y2}-a_{y2}\,b_{x2})\,(d_{x1}\,d_{y2}-a_{y2}\,b_{x2})$ $d_{x2} d_{y1}) + 144 \left(a_{x1} a_{y2} - a_{x2} a_{y1}\right) \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right) \left(a_{x1} c_{y2} - a_{y1} c_{x2}\right)^{2} \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right) \left(c_{x1} d_{y$ $(c_{u1} d_{x2}) + 144 (a_{x1} b_{u1} - a_{v1} b_{x1}) (a_{x1} b_{u2} - a_{v1} b_{x2})^2 (a_{x1} c_{u2} - a_{u1} c_{x2}) (a_{x1} d_{u2} - a_{v1} d_{x2}) (c_{x1} d_{u2} - a_{u1} d_{u2}) (c_{$ $(a_{y1} d_{x2}) - 36 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} b_{y2} - b_{x2} b_{y1}) (c_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{y2} b_{x2} - a_{y1} d_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{y2} b_{x2} - a_{y2} b_{y2}) (a_{y2} b_{y2} - a_{y2} b_{y2}) (a_{y$ $(c_{u1} d_{x2}) + 84 (a_{x1} a_{u2} - a_{x2} a_{u1}) (a_{x1} b_{u1} - a_{u1} b_{x1})^2 (a_{x1} d_{u2} - a_{u1} d_{x2}) (b_{u2} c_{x1} - b_{x2} c_{u1}) (c_{x1} d_{u2} - a_{u1} d_{x2}) (a_{x2} c_{u1} + a_{u2} c_{u2}) (a_{x1} d_{u2} - a_{u2} d_{u2}) (a_{x2} d_{u2} - a_{u2} d_{u2}) (a_{x$ $(c_{y1} d_{x2}) - 42 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x2} b_{y2} - a_{y2} b_{x2}) (c_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x2} b_{y2} - a_{y2} b_{x2}) (c_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x2} b_{y2} - a_{y2} b_{x2}) (a_{x$ $(c_{y1} d_{x2}) + 60 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (b_{x1} c_{y1} - b_{y1} c_{x1}) +$ $60 \left(a_{x1} \, b_{y2} - a_{y1} \, b_{x2}\right)^2 \left(a_{x1} \, c_{y2} - a_{y1} \, c_{x2}\right) \left(a_{x1} \, d_{y2} - a_{y1} \, d_{x2}\right)^2 \left(b_{x1} \, c_{y1} - b_{y1} \, c_{x1}\right) - 4 \left(a_{x1} \, b_{y1} - a_{y1} \, d_{x2}\right)^2 + 4 \left(a_{x1} \, b_{y2} - a_{y1} \, d_{x$ $(a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} c_{y1} - b_{y1} c_{x1}) (c_{x1} d_{y1} - c_{y1} d_{x1}) + 4 (a_{x1} b_{y1} - b_{y1} c_{x1}) (a_{y1} b_{y1} - b_{y1} c_{y1}) (a_{y1} b_{y1} - b_{y1} c_{y1}) + 4 (a_{y1} b_{y1} - b_{y1} c_{y1}) (a_{y1} b_{y1} - b_{y1} c_{y1}) (a_{y1} b_{y1} - b_{y1} c_{y1}) + 4 (a_{y1} b_{y1} - b_{y1} c_{y1}) (a_{y1} b_{y1} - b_{y1} c_{y1}$ $(a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} c_{y1} - b_{y1} c_{x1}) (c_{x1} d_{y2} - c_{y1} d_{x2}) - 36 (a_{x1} b_{y1} - b_{y1} c_{x1}) (a_{y2} b_{y1} - a_{y2} b_{y1}) (a_{y2} b_{y2} - a_{y2} b_{y1}) (a_{y2} b_{y2} - a_{y2} b_{y2}) (a_{y$ $(a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} c_{x1} - a_{x2} c_{y1}) (c_{x1} d_{y1} - c_{y1} d_{x1}) - 72 (a_{x1} b_{y1} - a_{y1} d_{x2}) (a_{y1} c_{y1} - a_{y1} d_{x2}) (a_{y$ $(a_{u1} b_{u1}) (a_{x1} b_{u2} - a_{u1} b_{x2}) (a_{x1} c_{u2} - a_{u1} c_{x2})^3 (c_{x1} d_{u1} - c_{u1} d_{x1}) + 48 (a_{x1} b_{u1} - a_{u1} b_{x1})^2 (a_{x1} c_{u2} - a_{u1} c_{u2})^3 (a_{x1} c_{u2} - a_{u2} c_{u2})^3 (a_{x1} c_{u2} - a_{u$ $a_{y1} c_{x2}) \left(a_{y2} b_{x1} - a_{x2} b_{y1}\right) \left(b_{x1} c_{y2} - b_{y1} c_{x2}\right) \left(c_{x1} d_{y1} - c_{y1} d_{x1}\right) + 6 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right)^2 \left(a_{x1} c_{y2} - a_{y1} b_{x1}\right)^2 + 6 \left(a_{x1} b_{y1} - a_{y1} b_{y1}\right)^2 + 6 \left(a_{x1$ $(a_{u1} c_{x2}) (b_{x1} b_{y2} - b_{x2} b_{y1})^2 (c_{x1} d_{y1} - c_{y1} d_{x1}) - 36 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y2} a_{y1})^2 (a_{y1} c_{y2} - a_{y2} a_{y2})^2 (a_{y1} c_{y2} - a_{y2} a_{y2} a_{y2})^2 (a_{y1} c_{y2} - a_{y2} a_{y2} a_{y2} a_{y2})^2 (a_{y1} c_{y2} - a_{y2} a_{y2$ $(a_{y1} c_{x2}) (c_{x1} c_{y2} - c_{x2} c_{y1}) (c_{x1} d_{y1} - c_{y1} d_{x1}) - 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{y2} c_{x1} - a_{y1} c_{x2})^2 (a_{y1} c_{y1} c_{y2} - a_{y1} c_{x2})^2 (a_{y2} c_{x1} - a_{y1} c_{y2})^2 (a_{y1} c_{y2} - a_{y1} c_{x2})^2 (a_{y2} c_{x1} - a_{y1} c_{y2})^2 (a_{y1} c_{y2} - a_{y1} c_{x2})^2 (a_{y2} c_{x1} - a_{y1} c_{y2})^2 (a_{y2} c_{y1} - a_{y1} c_{y2})^2 (a_{y2} c_{x1} - a_{y1} c_{y2})^2 (a_{y2} c_{y1} - a_{y1} c_{y2})^2 (a_{y2} c_{y1}$ $(a_{x2} c_{y1}) (c_{x1} d_{y1} - c_{y1} d_{x1}) - 36 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (b_{y2} c_{x1} - a_{y1} c_{x2}) (a_{y1} c_{y2} - a_{y1} c_{y2}) (a_{y2} c_{y1} - a_{y1} c_{y2}) (a_{y2} c_{y2} - a_{y1} c_{y2}) (a_{y$ $b_{x2}\,c_{y1})\,(c_{x1}\,d_{y1}-c_{y1}\,d_{x1})+24\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})\,(a_{x1}\,c_{y2}-a_{y1}\,c_{x2})\,(a_{y2}\,b_{x1}-a_{y1}\,c_{x1})\,(a_{x1}\,c_{y2}-a_{y1}\,c_{x2})\,(a_{y2}\,b_{x1}-a_{y1}\,c_{x1})\,(a_{x1}\,c_{y2}-a_{y1}\,c_{x2})\,(a_{y2}\,b_{x1}-a$ $(a_{x2} b_{y1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1}) + 96 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} b_{x2}) (a_{x1}$ $(a_{y1} c_{x2})^3 (c_{x1} d_{y2} - c_{y1} d_{x2}) - 48 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} c_{y2} - a_{y1} c_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{y2} b_{x1} - a_{y2} b_{y1}) (a_{y2} b_{y1} - a_{y2} b_{y1}) (a_{y2} b_{y1} - a_{y2} b_{y1}) (a_{y2} b_{y2} - a_{y2} b_{y2}) (a_$ $b_{y1} c_{x2}) (c_{x1} d_{y2} - c_{y1} d_{x2}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (b_{x1} b_{y2} - b_{x2} b_{y1})^2 (c_{x1} d_{y2} - a_{y1} c_{x2}) (a_{x2} c_{y2} - a_{y1} c_{y2}) (a_{x2} c_{y2} - a_{y2} c_{y2}) (a_{$ $(c_{y1} d_{x2}) + 36 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (c_{x1} c_{y2} - c_{x2} c_{y1}) (c_{x1} d_{y2} - a_{y1} c_{x2}) (c_{x1} c_{y2} - c_{x2} c_{y1}) (c_{x1} d_{y2} - a_{y1} c_{x2}) (c_{x2} c_{y2} - c_{x2} c_{y1}) (c_{x2} c_{y2} - c_{x2} c_{y2}) (c_{x2} c_{y2} - c_{x2} c_{y1}) (c_{x2} c_{y2} - c_{x2} c_{y2}) (c_{x$ $(c_{y1} d_{x2}) + 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) (c_{x1} d_{y2} - c_{y1} d_{x2}) +$ $36\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)\left(b_{y2}\,c_{x1}-b_{x2}\,c_{y1}\right)\left(c_{x1}\,d_{y2}-c_{y1}\,d_{x2}\right)+$ $16\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)^{3}\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(b_{x1}\,c_{y1}-b_{y1}\,c_{x1}\right)+36\left(a_{x1}\,b_{y1}-b_{y1}\,c_{x2}\right)^{3}\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x2}\right)+36\left(a_{x1}\,b_{y2}-a_{y1}\,d_{x2}\right)\left(a_{x1}\,c_{y2}-a_{y1}\,d_{x2}\right)\left(a_{x1}\,c_{y2}-a_{y1}\,d_{x2}\right)$ $(a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1}) + 24 (a_{x1} b_{y1} - b_{y1} d_{x2}) (a_{y1} c_{y2} - a_{y1} c_{y2})^2 (a_{y1} c_{y2} - a_{y1} c_{y2}) (a_$ $(a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1}) (b_{y2} c_{x1} - b_{x2} c_{y1}) - 36 (a_{x1} b_{y1} - b_{y1} d_{x1}) (b_{y2} c_{x1} - b_{x2} c_{y1}) - 36 (a_{x1} b_{y1} - b_{y1} d_{x1}) (b_{y2} c_{x1} - b_{x2} c_{y1}) - 36 (a_{x1} b_{y1} - b_{y1} d_{x1}) (b_{y2} c_{x1} - b_{y2} c_{y1}) - 36 (a_{x1} b_{y1} - b_{y1} d_{x1}) (b_{y2} c_{x1} - b_{y2} c_{y1}) - 36 (a_{x1} b_{y1} - b_{y1} d_{x1}) (b_{y2} c_{x1} - b_{y2} c_{y1}) - 36 (a_{x1} b_{y1} - b_{y1} d_{x1}) (b_{y2} c_{x1} - b_{y2} c_{y1}) - 36 (a_{x1} b_{y1} - b_{y1} d_{x1}) (b_{y2} c_{x1} - b_{y2} c_{y1}) - 36 (a_{x1} b_{y1} - b_{y1} d_{x1}) (b_{y2} c_{x1} - b_{y2} c_{y1}) - 36 (a_{x1} b_{y1} - b_{y1} d_{x1}) (b_{y2} c_{x1} - b_{y2} c_{y1}) - 36 (a_{x1} b_{y1} - b_{y1} d_{x1}) (b_{y2} c_{x1} - b_{y2} c_{y1}) - 36 (a_{x1} b_{y1} - b_{y1} d_{x1}) (b_{y2} c_{x1} - b_{y2} c_{y1}) - 36 (a_{x1} b_{y1} - b_{y1} d_{x1}) (b_{y2} c_{x1} - b_{y2} c_{y1}) - 36 (a_{x1} b_{y1} - b_{y1} d_{x2}) (b_{x1} c_{y2} - b_{y1} d_{x2}) (b_{x1} c_{y1} - b_{y1} d_{x1}) (b_{y2} c_{x1} - b_{y2} c_{y1}) - 36 (a_{x1} b_{y1} - b_{y1} d_{x2}) (b_{x1} c_{y2} - b_{y1} d_{x2}) (b_{x1} c_{y2} - b_{y1} d_{x2}) (b_{x1} c_{y2} - b_{y1} d_{x2}) (b_{x1} c_{y1} - b_{y1} d_{x2}) (b_{x1} c_{y2} - b_{y1} d_{x2}) (b_{$ $a_{y1}\,b_{x1})\,(a_{x1}\,b_{y2}-a_{y1}\,b_{x2})\,(a_{x1}\,c_{y2}-a_{y1}\,c_{x2})^2\,(b_{x1}\,c_{y2}-b_{y1}\,c_{x2})\,(b_{x1}\,d_{y2}-b_{y1}\,d_{x2})-24\,(a_{x1}\,b_{y1}-a_{y1}\,b_{y2})$ $(a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x1} d_{y2} - a_{y1} c_{x2}) (b_{x1} d_{y2} - a_{y1} c_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{y2} c_{y2} - a_{y1} c_{x2}) (a_{y2} c_{y2} - a_{y1} c_{y2}) (a_{y2} c_{y$ $b_{y1} d_{x2}) - 36 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right) \left(a_{x1} b_{y2} - a_{y1} b_{x2}\right) \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right) \left(b_{x1} b_{y2} - b_{x2} b_{y1}\right) \left(b_{x1} c_{y2} - a_{y1} b_{x2}\right) - 36 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right) \left(a_{x1} b_{y2} - a_{y1} b_{x2}\right) \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right) \left(a_{x1} b_{y2} - a_{y1} b_{x2}\right) \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right) \left(a_{x1} b_{y2} - a_{y1} b_{x2}\right) \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right) \left(a_{x1} c_{y2} - a_{y1} c_{x1}\right) \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right) \left(a_{x1} c_{y$ $b_{y1}\,c_{x2})\,(b_{x1}\,d_{y2}-b_{y1}\,d_{x2})+6\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})^2\,(a_{y2}\,b_{x1}-a_{x2}\,b_{y1})\,(b_{x1}\,c_{y1}-b_{y1}\,c_{x1})\,(b_{x1}\,c_{y2}-b_{y1}\,c_{x2})$ $(b_{y1} c_{x2}) (c_{x1} c_{y2} - c_{x2} c_{y1}) + 2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} b_{y2} - b_{x2} b_{y1})^2 (b_{x1} c_{y1} - b_{y1} c_{x1}) (c_{x1} c_{y2} - b_{y2} b_{y1})^2$ $(c_{x2} c_{y1}) - 12 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} c_{y1} - b_{y1} c_{x1}) (c_{x1} c_{y2} - c_{x2} c_{y1})^2 - (c_{x2} c$ $12\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)\left(b_{x1}\,c_{y1}-b_{y1}\,c_{x1}\right)\left(b_{y2}\,c_{x1}-b_{x2}\,c_{y1}\right)\left(c_{x1}\,c_{y2}-c_{x2}\,c_{y1}\right)+$ $6\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{2}\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)^{2}\left(c_{x1}\,c_{y2}-c_{x2}\,c_{y1}\right)+12\left(a_{x1}\,a_{y2}-a_{y1}\,c_{x2}\right)^{2}$ $a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (c_{x1} c_{y2} - c_{x2} c_{y1})^2 + 12 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x2} b_{y1} - a_{y1} b_{x2}) (a_{x1} b_{y2} - a_{y2} b_{x2})^2 + 12 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x2} b_{y2} - a_{y2} b_{x2})^2 + 12 (a_{x2} b_{y2} - a_{y2} b_{x2}) (a_{x2} b_{x2} - a_{y2} b_{x2}) (a_{x2} b_{x2} - a_{y2} b_{x2}) (a_{x2} b_{x2} - a_{y2$ $(a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (b_{y2} c_{x1} - b_{x2} c_{y1}) (c_{x1} c_{y2} - c_{x2} c_{y1}) - 48 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{y1} c_{y1} - a_{y1} c_{y1}) (a_$ $(a_{x1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) + 2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x1})^2 (a_{x1} c_{y1} - a_{y1$ $(a_{y1} c_{x2})^3 (b_{y2} c_{x1} - b_{x2} c_{y1}) - 4 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) (b_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{y2} c_{x1} - a_{y2} c_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{y2} c_{x1} - a_{y2} c_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{y2} c_{x1} - a_{y2} c_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{y2} c_{x1} - a_{y2} c_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{y2} c_{x1} - a_{y2} c_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{y2} c_{x1} - a_{y2} c_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{y2} c_{x1} - a_{y2} c_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{y2} c_{x1} - a_{y2} c_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{y2} c_{x1} - a_{y2} c_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{y2} c_{x1} - a_{y2} c_{y1}) (a_{y2} c_{x1} - a_{y2} c_{y2}) (a_{y2} c_{y2} - a_{y2} c_$ $b_{y1} c_{x1}$) $(b_{y2} c_{x1} - b_{x2} c_{y1}) - 2 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (b_{x1} c_{y2} - b_{y1} c_{x2})^2 - 6 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{y1} c_{y2} - a_{y1} c_{y2})^3 (a_{y1} c_{y2} - a_{y1} c_{y2})^2 - 6 (a_{y1} b_{y1} - a_{y1} b_{y1}) (a_{y1} c_{y2} - a_{y1} c_{y2})^3 (a_{y1} c_{y2} - a_{y1} c_{y2})^2 - 6 (a_{y1} b_{y1} - a_{y1} b_{y1}) (a_{y1} c_{y2} - a_{y1} c_{y2})^3 (a_{y1} c_{y2} - a_{y1} c_{y2})^2 - 6 (a_{y1} c_{y2} (a_{x1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (b_{x1} c_{y2} - b_{y1} c_{x2})^2 (c_{x1} c_{y2} - c_{x2} c_{y1}) - 10 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_$

 $(a_{u1} c_{x2}) (b_{x1} c_{y2} - b_{y1} c_{x2})^2 (b_{y2} c_{x1} - b_{x2} c_{y1}) - 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (c_{x1} c_{y2} - a_{$ $(c_{x2} c_{y1}) (c_{x1} d_{y1} - c_{y1} d_{x1}) + 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (c_{x1} c_{y2} - c_{x2} c_{y1}) (c_{x1} d_{y2} - a_{y1} b_{x2})^2 (c_{x1} c_{y2} - c_{x2} c_{y1}) (c_{x1} d_{y2} - a_{y1} b_{x2})^2 (c_{x1} c_{y2} - c_{x2} c_{y1}) (c_{x1} d_{y2} - a_{y1} b_{x2})^2 (c_{x1} c_{y2} - c_{x2} c_{y1}) (c_{x1} d_{y2} - a_{y1} b_{x2})^2 (c_{x1} c_{y2} - c_{x2} c_{y1}) (c_{x1} d_{y2} - a_{y1} b_{x2})^2 (c_{x1} c_{y2} - c_{x2} c_{y1}) (c_{x1} d_{y2} - a_{y1} b_{x2})^2 (c_{x1} c_{y2} - c_{x2} c_{y1}) (c_{x1} d_{y2} - a_{y1} b_{x2})^2 (c_{x1} c_{y2} - c_{x2} c_{y1}) (c_{x1} d_{y2} - a_{y1} b_{x2})^2 (c_{x1} c_{y2} - c_{x2} c_{y1}) (c_{x1} d_{y2} - a_{y1} b_{x2})^2 (c_{x1} c_{y2} - c_{x2} c_{y1}) (c_{x1} d_{y2} - a_{y1} b_{x2})^2 (c_{x1} c_{y2} - c_{x2} c_{y1}) (c_{x1} d_{y2} - a_{y1} b_{x2})^2 (c_{x1} c_{y2} - c_{x2} c_{y1}) (c_{x1} d_{y2} - a_{y1} b_{x2})^2 (c_{x1} c_{y2} - c_{x2} c_{y1}) (c_{x1} d_{y2} - a_{y1} b_{x2})^2 (c_{x1} c_{y2} - c_{x2} c_{y1}) (c_{x1} d_{y2} - a_{y1} b_{x2})^2 (c_{x1} c_{y2} - c_{x2} c_{y1}) (c_{x1} d_{y2} - a_{y1} b_{x2})^2 (c_{x1} c_{y2} - c_{x2} c_{y1}) (c_{x1} d_{y2} - a_{y1} b_{x2})^2 (c_{x1} c_{y2} - c_{x2} c_{y1}) (c_{x1} d_{y2} - a_{y1} b_{x2})^2 (c_{x1} c_{y2} - c_{x2} c_{y1}) (c_{x1} d_{y2} - a_{y1} b_{y2})^2 (c_{x1} c_{y2} - c_{y1} c_{y1} c_{y2} - a_{y1} c_{y2})^2 (c_{x1} c_{y2} - c_{y1} c_{y1} c_{y2} - c_{y1} c_{y2} c_{y2}) (c_{x1} c_{y2} - c_{y1} c_{y2} c_{y2} - c_{y1} c_{y2} c_{y2} c_{y2}) (c_{x1} c_{y2} - c_{y2} c_{y2}$ $(c_{y1} d_{x2}) + 6 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^4 (c_{x1} c_{y2} - c_{x2} c_{y1}) + 24 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} c_{x2})^4 (a_{x1} c_{y2} -$ $(a_{u1} b_{u2}) (a_{x1} c_{u2} - a_{u1} c_{x2}) (c_{x1} c_{u2} - c_{x2} c_{u1})^2 + 4 (a_{x1} b_{u1} - a_{u1} b_{x1})^2 (b_{x1} b_{u2} - b_{x2} b_{u1}) (b_{x1} c_{u1} - a_{u1} b_{x2})^2$ $b_{y1}\,c_{x1})\,(b_{x1}\,c_{y2}-b_{y1}\,c_{x2})\,(b_{y2}\,c_{x1}-b_{x2}\,c_{y1}) + 2\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})^2\,(a_{y2}\,c_{x1}-a_{x2}\,c_{y1})\,(b_{x1}\,c_{y1}-a_{y1}\,b_{x1})^2$ $(b_{u1} c_{x1})^2 (b_{u2} c_{x1} - b_{x2} c_{u1}) - 48 (a_{x1} b_{u2} - a_{u1} b_{x2})^2 (a_{x1} c_{u1} - a_{u1} c_{x1}) (a_{x1} c_{u2} - a_{u1} c_{x2}) (a_{x1} d_{u1} - a_{u1} c_{x2}) (a_{x1} c_{u2} - a_{u1} c_{x2}) (a_{x1} d_{u1} - a_{u1} c_{x2}) (a_{x1} c_{u2} - a_{u1} c_{x2}) (a_{x1} d_{u1} - a_{u1} c_{x2}) (a_{x1} c_{u2} - a_{u1} c_{x2}) (a_{x1} d_{u1} - a_{u1} c_{x2}) (a_{x1} c_{u2} - a_{u1} c_{x2}) (a_{x1} d_{u1} - a_{u1} c_{x2}) (a_{x1} c_{u2} - a_{u1} c_{x2}) (a_{x1} d_{u1} - a_{u1} c_{x2}) (a_{x1} c_{u2} - a_{u1} c_{x2}) (a_{x1} d_{u1} - a_{u1} c_{x2}) (a_{x1} d_{u2} - a_{u1} c_{x2}) (a_{x1} d_{u1} - a_{u1} c_{x2}) (a_{x1} d_{u2} - a_{u2} c_{x2}) (a_{x1} d_{u2} - a_{u2} c_{x2}) (a_{x1} d_{u2} - a_{u2} c_{x2}) (a_$ $a_{y1}\,d_{x1})\,(b_{x1}\,d_{y2}-b_{y1}\,d_{x2})-20\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})^3\,(a_{y2}\,c_{x1}-a_{x2}\,c_{y1})\,(b_{y2}\,c_{x1}-b_{x2}\,c_{y1})\,(c_{x1}\,d_{y1}-a_{y1}\,d_{x2})$ $(c_{y1} d_{x1}) - 16 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x2} d_{y2} - a_{y2} d_{x2}) (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{x2} d_{y2} - b_{y2} d_{x2}) +$ $12\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)^{2}\left(b_{x1}\,c_{y2}-b_{y1}\,c_{x2}\right)\left(b_{x2}\,d_{y2}-b_{y2}\,d_{x2}\right)+6\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}$ $(a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x2} d_{y2} - a_{y2} d_{x2}) (b_{x2} d_{y2} - b_{y2} d_{x2}) - 2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x2} c_{y2} - a_{y2} d_{x2}) - 2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x2} c_{y2} - a_{y2} d_{x2}) - 2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x2} c_{y2} - a_{y2} d_{x2}) - 2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x2} c_{y2} - a_{y2} d_{x2}) - 2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x2} c_{y2} - a_{y2} d_{x2}) - 2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x2} c_{y2} - a_{y2} d_{x2}) - 2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x2} c_{y2} - a_{y2} d_{x2}) - 2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x2} c_{y2} - a_{y2} d_{x2}) - 2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x2} c_{y2} - a_{y2} d_{x2}) - 2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x2} c_{y2} - a_{y2} d_{x2}) - 2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x2} c_{y2} - a_{y2} d_{x2}) - 2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x2} c_{y2} - a_{y2} d_{x2}) - 2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x2} c_{y2} - a_{y2} d_{x2}) - 2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x2} c_{y2} - a_{y2} d_{x2}) - 2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x2} c_{y2} - a_{y2} d_{x2}) - 2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x2} c_{y2} - a_{y2} d_{x2}) - 2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x2} c_{y2} - a_{y2} d_{x2}) - 2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x2} c_{y2} - a_{y2} d_{x2}) - 2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x2} c_{y2} - a_{y2} d_{x2}) - 2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x2} c_{y2} - a_{y2} d_{x2}) - 2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x2} c_{y2} - a_{y2} d_{x2}) - 2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x2} c_{y2} - a_{y2} d_{x2}) - 2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x2} c_{y2} - a_{y2} d_{x2}) - 2 (a_{x2} c_{y2} - a_{y2} d_$ $(a_{y2} c_{x2}) (b_{x1} c_{y1} - b_{y1} c_{x1})^2 (b_{x1} c_{y2} - b_{y1} c_{x2}) - 16 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (a_{x1} d_{y1} - a_{y1} c_{x2})^3 (a_{y1} c_{y2} - a_{y1} c_{y2})^3 (a_{y1} c_{y2} - a_{y$ $(a_{x1} d_{x1}) (b_{x1} c_{y1} - b_{y1} c_{x1}) - 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (b_{x2} c_{y2} - a_{y1} c_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x2} c_{y2} - a_{y2} c_{x2}) (a_{x2$ $b_{y2} c_{x2} (c_{x1} c_{y2} - c_{x2} c_{y1}) + 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{y2} d_{x1} - a_{x2} d_{y1}) (b_{y2} d_{x1} - a_{y1} c_{x1})^2$ $(b_{x2} d_{y1}) - 16 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{y2} d_{x1} - a_{x2} d_{y1}) (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{y2} d_{x1} - b_{x2} d_{y1}) +$ $20\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{3}\left(a_{y2}\,c_{x1}-a_{x2}\,c_{y1}\right)\left(b_{y2}\,c_{x1}-b_{x2}\,c_{y1}\right)\left(c_{x1}\,d_{y2}-c_{y1}\,d_{x2}\right)+12\left(a_{x1}\,b_{y1}-a_{y2}\,b_{y1}\right)\left(a_{y2}\,c_{y1}-a_{y2}\,b_{y1}\right)$ $(a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{y2} d_{x1} - b_{x2} d_{y1}) + 2 (a_{x1} c_{y2} - a_{y1} c_{x2})^5 (b_{x1} c_{y1} - a_{y1} c_{x2})^5 (b_{x1} c_{y2} - a_{y1} c_{x2})^5 (b_{x1} c_{y1} - a_{y1} c_{x2})^5 (b_{x1} c_{y2} - a_{y1} c_{x2})^5 (b_{x1} c_{y1} - a_{y1} c_{x2})^5 (b_{x1} c_{y2} - a_{y1} c_{x2})^5 (b_{x1} c_{y2} - a_{y1} c_{x2})^5 (b_{x1} c_{y1} - a_{y1} c_{x2})^5 (b_{x1} c_{y2} - a_{y1} c_{x2})^5 (b_{x1} c_{y2} - a_{y1} c_{x2})^5 (b_{x1} c_{y1} - a_{y1} c_{x2})^5 (b_{x1} c_{y2} - a_{y1} c_{x2})^5 (b_{x1} c_{y1} - a_{$ $b_{y1} c_{x1}$) - 12 $(a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} c_{y1} - a_{y1} b_{y2}) (b_{y1} c_{y1} - a_{y1} b_{y1}) (b_{y1} c_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1}) (b_{y1} c_{y1} - a_{y1} b_{y1} - a_{$ $b_{y1}\,c_{x1}) - 12\,(a_{x1}\,b_{y1} - a_{y1}\,b_{x1})\,(a_{x1}\,d_{y2} - a_{y1}\,d_{x2})^2\,(a_{y2}\,b_{x1} - a_{x2}\,b_{y1})\,(b_{x1}\,b_{y2} - b_{x2}\,b_{y1})\,(b_{x1}\,c_{y1} - a_{y1}\,b_{x2})^2\,(a_{y2}\,b_{y1} - a_{y2}\,b_{y1})\,(a_{y1}\,b_{y2} - a_{y2}\,b_{y1})\,(a_{y2}\,b_{y2} - a_{y2}\,b_{y2})^2\,(a_{y2}\,b_{y2} - a_{y2}\,b_{y$ $b_{y1} c_{x1}$) - 144 $(a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (c_{x1} d_{y1} - a_{y1} d_{y2})$ $c_{y1}\,d_{x1}) - 12\left(a_{x1}\,a_{y2} - a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1} - a_{y1}\,b_{x1}\right)\left(a_{x1}\,b_{y2} - a_{y1}\,b_{x2}\right)\left(b_{x1}\,c_{y1} - b_{y1}\,c_{x1}\right)\left(b_{x1}\,d_{y2} - a_{y1}\,b_{x2}\right)\left(a_{x1}\,a_{y2} - a_{y1}\,b_{x2}\right)\left(a_{x1}\,a_{$ $(b_{y1} d_{x2})^2 - 12 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{x1} d_{y1} - a_{y1} b_{x2}) (a_{x1} a_{y2} - a_{y1} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{y1}) (a_{x1} a_{y2} - a_{y1} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{y1}) (a_{x1} a_{y2} - a_{y1} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{y1}) (a_{x1} a_{y2} - a_{y1} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{y1}) (a_{x1} a_{y2} - a_{y1} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{y1}) (a_{x$ $(b_{y1} d_{x1})^2 + 8 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) (b_{y2} c_{x1} - a_{y2} b_{y1}) (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) (b_{y2} c_{x1} - a_{y2} b_{y1}) (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) (b_{y2} c_{x1} - a_{y2} b_{y1}) (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) (b_{y2} c_{x1} - a_{y2} b_{y1}) (b_{x1} c_{y1} - a_{y1} b_{x1}) (b_{x1} c_{y2} - b_{y1} d_{x2}) (b_{y2} c_{x1} - a_{y2} b_{y1}) (b_{x1} c_{y1} - a_{y1} b_{x1}) (b_{x1} c_{y2} - a_{y1} d_{x2}) (b_{y2} c_{x1} - a_{y2} b_{y1}) (b_{x1} c_{y1} - a_{y1} b_{x1}) (b_{x1} c_{y2} - a_{y1} d_{x2}) (b_{y2} c_{x1} - a_{y2} b_{y1}) (b_{x1} c_{y1} - a_{y1} b_{x1}) (b_{x1} c_{y2} - a_{y1} d_{x2}) (b_{y2} c_{x1} - a_{y2} b_{y1}) (b_{x1} c_{y1} - a_{y1} b_{x1}) (b_{x1} c_{y2} - a_{y1} d_{x2}) (b_{y2} c_{x1} - a_{y2} b_{y1}) (b_{x1} c_{y1} - a_{y1} b_{x1}) (b_{x1} c_{y1} - a_{y1} b_{x1}) (b_{y2} c_{x1} - a_{y2} b_{y1}) (b_{x1} c_{y1} - a_{y1} b_{x1}) (b_{x1} c_{y1} - a_{y1} b_{x1}) (b_{y2} c_{x1} - a_{y2} b_{y1}) (b_{x1} c_{y1} - a_{y1} b_{x1}) (b_{$ $(b_{x2} c_{y1}) - 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x2} b_{y2} - a_{y2} b_{x2}) (b_{x1} c_{y1} - b_{y1} c_{x1})^2 (b_{x1} d_{y2} - b_{y1} d_{x2}) +$ $2\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{3}\left(b_{x1}\,c_{y1}-b_{y1}\,c_{x1}\right)\left(b_{x2}\,c_{y2}-b_{y2}\,c_{x2}\right)+6\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{3}\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{3}$ $(a_{x1} c_{x1})^3 (a_{x1} c_{y2} - a_{y1} c_{x2}) (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{y2} c_{x1} - b_{x2} c_{y1}) + 4 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y2} - a_{y2} a_{y1}) (a_{x2} a_{y2} - a_{y2} a_{y2}) (a_{x2$ $(a_{x1} b_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (b_{x1} c_{y1} - b_{y1} c_{x1})^3 - 4 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y2} - a_{y1} a_{y2}) (a_{y1} a_{y2} - a_{y1} a_{y2}) (a_{y1$ $(a_{y1} d_{x2}) (b_{x1} c_{y1} - b_{y1} c_{x1})^3 + 12 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (b_{x1} d_{y1} - a_{y1} c_{x1})^2 (b_{x1} d_{y1} - a_{y1} c_{x1})^2 (b_{x1} d_{y1} - a_{y1} c_{x1})^2 (a_{x1} a_{y2} - a_{y1} a_{y1} c_{x1})^2 (a_{x1} a_{y1} - a_{y1} a_{y1} c_{y1} c_{y1} c_{y1})^2 (a_{x1} a_{y1} - a_{y1} a_{y1} c_{y1} c$ $(b_{y1} d_{x1})^2 + 4 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{y2} d_{x1} - a_{x2} d_{y1}) (b_{x1} c_{y1} - b_{y1} c_{x1}) +$ $4\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{3}\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(a_{x2}\,b_{y2}-a_{y2}\,b_{x2}\right)\left(b_{x1}\,c_{y1}-b_{y1}\,c_{x1}\right)-144\left(a_{x1}\,b_{y1}-a_{y1}\,c_{x2}\right)$ $(a_{u1} b_{u1}) (a_{x1} b_{u2} - a_{u1} b_{x2}) (a_{x1} c_{u2} - a_{u1} c_{x2}) (a_{x1} d_{u1} - a_{u1} d_{x1}) (a_{x1} d_{u2} - a_{u1} d_{x2}) (b_{u2} c_{x1} - a_{u1} d_{x2}) (a_{x1} d_{u2} - a_{u1} d_{x2}) (a_{x2} d_{u2} - a_{u2} d_{x2}) (a_{x2} d_{u2} - a_{u1} d_{x2}) (a_{x2} d_{u2} - a_{u2} d_{x2}) (a_{x2} d_{u$ $b_{x2} c_{y1}$) $-144 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} b_{x2}) (a_{x2} d_{y1} - a_{y1} d_{x2}) (a_{x1} d_{y2} - a_{y2} d_{x2}) (a_{x2} d_{y2} - a_{y2} d_{x2}) (a_{x2$ $(a_{y1} d_{x2}) (c_{x1} d_{y2} - c_{y1} d_{x2}) + 72 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x1}) (a_{x2} c_{y2} - a_{y1} c_{x2})^2$ $a_{y1} c_{x2}$) $(d_{x1} d_{y2} - d_{x2} d_{y1}) + 144 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} a_{y1}) (a_{x1} c_{y2} - a_{y1} a_{y1} a_{y1}) (a_{x1} c_{y2} - a_{y1} a_{y1} a_{y1}) (a_{x1} c_{y2} - a_{y1} a_{y1} a_{y1} a_{y1} a_{y1}) (a_{x1} c_{y2} - a_{y1} a_{y1$ $a_{y1} c_{x2} (a_{x1} d_{y1} - a_{y1} d_{x1}) (c_{x2} d_{y2} - c_{y2} d_{x2}) + 144 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y2} a_{y2}) + 144 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y2} a_{y2}) + 144 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y1} - a_{y1} b_{x1}) (a_{x1} a_{y2} - a_{y2} a_{y2}) + 144 (a_{x1} a_{y2} - a_{y2} a_{y1}) (a_{y1} a_{y1} - a_{y1} a_{y1}) (a_{y1} a_{y2} - a_{y2} a_{y2}) + 144 (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y1} a_{y1} - a_{y1} a_{y1}) (a_{y1} a_{y2} - a_{y2} a_{y2}) + 144 (a_{y1} a_{y2} - a_{y2} a_{y2}) + 144 (a_{y1} a_{y2} - a_{y2} a_{y2}) (a_{y1} a_{y1} - a_{y1} a_{y1}) (a_{y1} a_{y2} - a_{y2} a_{y2}) + 144 (a_{y1} a_{y2} - a_{y2} a_{y2}) + 144 (a_{y1} a_{y2} - a_{y2} a_{y2}) (a_{y1} a_{y1} - a_{y1} a_{y1}) (a_{y1} a_{y2} - a_{y2} a_{y2}) + 144 (a_{y1} a_{y2} - a_{y2} a_{y2}) (a_{y1} a_{y1} - a_{y1} a_{y1}) (a_{y1} a_{y2} - a_{y2} a_{y2}) + 144 (a_{y1} a_{y2} - a_{y2} a_{y2}) (a_{y1} a_{y1} - a_{y1} a_{y2}) (a_{y2} a_{y2} - a_{y2} a_{y2}) + 144 (a_{y1} a_{y2} - a_{y2} a_{y2}) (a_{y1} a_{y2} - a_{y2} a_{y2}) (a_{y2} a_{y2} - a_{y2} a_{y2}) + 144 (a_{y1} a_{y2} - a_{y2} a_{y2}) (a_{y2} a_{y2} - a_{y2} a_{y2}) (a_{y2} a_{y2} - a_{y2} a_{y2}) (a_{y2} a_{y2} - a_{y2} a_{y2}) + 144 (a_{y1} a_{y2} - a_{y2} a_{y2} a_{y2}) (a_{y2} a_{y2} - a_{y2} a_{y2}$ $a_{y1} b_{x2}$) $(a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (c_{x1} d_{y1} - c_{y1} d_{x1}) + 72 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} d_{x1})$ $(a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (c_{y2} d_{x1} - c_{x2} d_{y1}) + 72 (a_{x1} b_{y1} - a_{y1} d_{x1}) (c_{y2} d_{x1} - c_{x2} d_{y1}) + 72 (a_{x1} b_{y1} - a_{y1} d_{x1}) (c_{y2} d_{x1} - c_{x2} d_{y1}) + 72 (a_{x1} b_{y1} - a_{y1} d_{x1}) (c_{y2} d_{x1} - c_{x2} d_{y1}) + 72 (a_{x1} b_{y1} - a_{y1} d_{x1}) (c_{y2} d_{x1} - c_{x2} d_{y1}) + 72 (a_{x1} b_{y1} - a_{y1} d_{x1}) (c_{y2} d_{x1} - c_{x2} d_{y1}) + 72 (a_{x1} b_{y1} - a_{y1} d_{x1}) (c_{y2} d_{x1} - c_{x2} d_{y1}) + 72 (a_{x1} b_{y1} - a_{y1} d_{x1}) (c_{y2} d_{x1} - c_{x2} d_{y1}) + 72 (a_{x1} d_{x1} d_{x1}) (c_{y2} d_{x1} - c_{x2} d_{y1}) + 72 (a_{x1} d_{x1} d_{x1} - a_{y1} d_{x1}) (c_{y2} d_{x1} - c_{x2} d_{y1}) + 72 (a_{x1} d_{x1} d_{x1} - a_{y1} d_{x1}) (c_{y2} d_{x1} - c_{x2} d_{y1}) + 72 (a_{x1} d_{x1} d_{x1} - a_{y1} d_{x1}) (c_{y2} d_{x1} - c_{x2} d_{y1}) + 72 (a_{x1} d_{x1} d_{x1} - a_{y1} d_{x1}) (c_{y2} d_{x1} - c_{x2} d_{y1}) + 72 (a_{x1} d_{x1} d_{x1} - a_{y1} d_{x1}) (c_{y2} d_{x1} - c_{x2} d_{y1}) + 72 (a_{x1} d_{x1} d_{x1} - a_{y1} d_{x1}) (c_{y2} d_{x1} - c_{x2} d_{y1}) + 72 (a_{x1} d_{x1} d_{x1} - a_{y1} d_{x1}) (c_{y2} d_{x1} - c_{x2} d_{y1}) + 72 (a_{x1} d_{x1} d_{x1} - a_{y1} d_{x1}) (c_{y2} d_{x1} - c_{x2} d_{y1}) + 72 (a_{x1} d_{x1} d_{x1} - a_{y1} d_{x1}) (c_{y2} d_{x1} - c_{x2} d_{y1}) + 72 (a_{x1} d_{x1} d_{x1} - a_{y1} d_{x1}) (c_{y2} d_{x1} - c_{x2} d_{y1}) + 72 (a_{x1} d_{x1} - a_{y1} d_{x1} - a_{y1} d_{x1}) (c_{y2} d_{x1} - c_{x2} d_{y1}) + 72 (a_{x1} d_{x1} - a_{y1} d_{x1} - a_{y1} d_{x1}) (c_{y2} d_{$ $a_{y1} b_{x1}) \left(a_{x1} b_{y2} - a_{y1} b_{x2}\right) \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right) \left(a_{x1} c_{y2} - a_{y1} c_{x2}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right) \left(b_{y2} d_{x1} - a_{y1} d_{x2}\right) \left(a_{x1} d_{y1} - a_{y1$ $b_{x2}\,d_{y1}) + 72\left(a_{x1}\,a_{y2} - a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1} - a_{y1}\,b_{x1}\right)\left(a_{x1}\,b_{y2} - a_{y1}\,b_{x2}\right)\left(a_{x1}\,d_{y2} - a_{y1}\,d_{x2}\right)^{2}\left(c_{x1}\,d_{y2} - a_{y1}\,d_{x2}\right)^{2}$ $(c_{y1} d_{x2}) - 72 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (c_{x2} d_{y2} - a_{y1} d_{x2}) (c_{x$ $c_{y2} d_{x2}$) $-72 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (d_{x1} d_{y2} - a_{y1}$ $d_{x2} d_{y1}) - 72 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right) \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right)^{2} \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right) \left(a_{x2} b_{y2} - a_{y1} d_{x2}\right) \left(a_{x2} b_{y2} - a_{y1} d_{x2}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x2}\right) \left(a_{x2} d_{y2} - a_{y1} d_{x2}\right) \left(a_{x2} d_{y2$

 $a_{y2}\,b_{x2}) - 72\,(a_{x1}\,c_{y1} - a_{y1}\,c_{x1})\,(a_{x1}\,c_{y2} - a_{y1}\,c_{x2})^2\,(a_{x1}\,d_{y1} - a_{y1}\,d_{x1})\,(a_{x1}\,d_{y2} - a_{y1}\,d_{x2})\,(a_{y2}\,b_{x1} - a_{y1}\,d_{x2})\,(a_{y2}\,b_{x2} - a_{y1}\,d_{x2})\,(a_{y2}\,b_{x1} - a_{y1}\,d_{x2})\,(a_{y2}\,b_{x2} - a_{y2}\,d_{x2})\,(a_{y2}\,b_{x2} - a_{y2}\,d_{x2})\,(a_{y2$ $(a_{x2} b_{y1}) + 72 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2})^{2} (b_{y2} d_{x1} - a_{y1} b_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2})^{2} (b_{y2} d_{x1} - a_{y1} d_{x2})^{2} (a_{y1} d_{y2} - a_{y1} d_{y2})^{2} (a_{y1} d_{y1} - a_{y1} d_{y2})^{2} (a_{y1} d_{y1} - a_{y1} d_{y2})^{2} (a_{y1} d_{y1} - a_{y1} d_{y1} - a_{y1} d_{y2})^{2} (a_{y1} d_{y1} - a_{y1} d_{y1} - a_{y1} d_{y1})^{2} (a_{y1}$ $b_{x2} d_{y1}$) - 72 $(a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (c_{x1} d_{y1} - a_{y1} d_{x1})^2$ $(c_{u1} d_{x1}) - 72 (a_{x1} b_{u1} - a_{u1} b_{x1}) (a_{x1} b_{u2} - a_{u1} b_{x2}) (a_{x1} c_{u1} - a_{u1} c_{x1}) (a_{x1} c_{u2} - a_{u1} c_{x2})^2 (c_{u2} d_{x1} - a_{u1} c_{x2})^2 (c_{u2} d_{x1} - a_{u1} c_{x2})^2 (c_{u2} d_{x2} - a_{u2} c_{x2})^2 (c_{u2} d_{x2} - a_{u2}$ $(c_{x2} d_{y1}) - 72 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (c_{x2} d_{y2} - a_{y1} c_{y2})^2 (c_{x2} d_{y2} - a_{y1} c_{y2})^2 (c_{x2} d_{y2} - a_{y1}$ $(c_{u2} d_{x2}) - 72 (a_{x1} b_{u2} - a_{u1} b_{x2})^2 (a_{x1} c_{u1} - a_{u1} c_{x1}) (a_{x1} d_{u1} - a_{u1} d_{x1}) (a_{x1} d_{u2} - a_{u1} d_{x2}) (b_{x1} c_{u2} - a_{u1} d_{x2}) (b_{x1} c_{u2} - a_{u1} d_{x2}) (a_{x1} c_{u2} - a_{u1} d_{x2}) (a_{x$ $b_{y1}\,c_{x2}) - 72\left(a_{x1}\,a_{y2} - a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1} - a_{y1}\,b_{x1}\right)\left(a_{x1}\,c_{y1} - a_{y1}\,c_{x1}\right)\left(a_{x1}\,c_{y2} - a_{y1}\,c_{x2}\right)\left(a_{x1}\,d_{y2} - a_{y1}\,c_{y2}\right)\left(a_{x1}\,d_{y2}\right) + a_{x1}\,d_{y2}\left(a_{x1}\,d_{y2} - a_{y1}\,c_{y2}\right)\left(a_{x1}\,d_{y2}\right) + a_{x1}\,d_{y2}\left(a_{x1}\,d_{y2}\right)\left(a_{x1}\,d_{y2}\right) + a_{x2}\,d_{y2}\left(a_{x1}\,d_{y2}\right)\left(a_{x1}\,d_{y2}\right) + a_{x2}\,d_{y2}\left(a_{x1}\,d_{y2}\right) + a_{x2}\,d_{y2}\left(a_{x1}\,d_$ $a_{y1} d_{x2}) \left(c_{x2} d_{y2} - c_{y2} d_{x2}\right) - 72 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right) \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right) \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right)^{3} \left(a_{x2} b_{y2} - a_{y$ $(a_{y2} b_{x2}) - 72 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (a_{y2} b_{x1} - a_{y1}$ $(a_{x2} b_{y1}) - 72 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (b_{x2} c_{y2} - a_{y1} d_{x2})^2 (b_{x2} c_{y2} - a_{y1} d_{x2})^2 (a_{x1} b_{y1} - a_{y1} d_{x2})^2 (a_{x2} b_{y1} - a_{y1}$ $b_{y2} c_{x2}$)+72 $(a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (b_{x1} d_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (b_{x1} d_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (b_{x1} d_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (b_{x1} d_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (b_{x1} d_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (b_{x1} d_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (b_{x1} d_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x1})^2 (a_{x1} d_{y1} (b_{y1} d_{x2}) + 36 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) (c_{y2} d_{x1} - a_{y1} c_{x2}) (c_{y2} d_{x1} - a_{y2} b_{y1}) (c_{y2} d_{x2} - a_{y1} c_{x2}) (c_{y2} d_{x1} - a_{y2} b_{y1}) (c_{y2} d_{x2} - a_{y2} b_{y2}) (c_{y$ $(c_{x2} d_{y1}) + 36 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} c_{x1} - a_{x2} c_{y1}) (c_{x1} c_{y2} - a_{y1} c_{x2}) (a_{y2} c_{y1} - a_{y1} c_{y2}) (a_{y2} c_{y1} - a_{y2} c_{y1}) (a_{y2} c_{y1} - a_{y1} c_{y2}) (a_{y2} c_{y2} - a_{y2} c_{y2}) (a_{y$ $c_{x2} c_{y1}) + 36 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^{2} (a_{x1} d_{y2} - a_{y1} d_{x2})^{2} (c_{x1} c_{y2} - c_{x2} c_{y1}) - 18 (a_{x1} c_{y1} - a_{y1} c_{x1})^{2} (a_{x1} c_{y2} - a_{y1} c_{x2})^{2} (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{y2} c_{x1} - a_{x2} c_{y1}) + 6 (a_{x1} b_{y1} - a_{y1} c_{x2})^{2} (a_{x1} c_{y2} - a_{y1} c_{x2})^{2} (a_{x1} c_{y2}$ $(a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{y2} d_{x1} - a_{x2} d_{y1}) (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) + 4 (a_{x1} a_{y2} - a_{y1} c_{x2}) (a_{y2} d_{x1} - a_{x2} d_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) + 4 (a_{x1} a_{y2} - a_{y1} c_{x2}) (a_{y2} d_{x1} - a_{x2} d_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) + 4 (a_{x1} a_{y2} - a_{y1} c_{x2}) (a_{y2} d_{x1} - a_{x2} d_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x2}) (a_{y2} d_{x1} - a_{x2} d_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x2}) (a_{y2} d_{x1} - a_{x2} d_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x2}) (a_{y2} d_{x1} - a_{x2} d_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x2}) (a_{y2} d_{x1} - a_{x2} d_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x2}) (a_{y2} d_{x1} - a_{x2} d_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x2}) (a_{y2} d_{x1} - a_{x2} d_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x2}) (a_{y2} d_{x1} - a_{x2} d_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x2}) (a_{y2} d_{x1} - a_{x2} d_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x2}) (a_{y2} d_{x1} - a_{x2} d_{y1}) (a_{y2} d_{x1} - a_{y2} d_{y1}$ $(a_{x2} a_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (b_{x1} b_{y2} - b_{x2} b_{y1}) (c_{x1} d_{y1} - c_{y1} d_{x1}) - 4 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{y1} c_{y1} - a_{y1} c_{y1}) (a_{y1} c_{y1} - a_{y1} c_{y1})^3 (a_{y1} c_{y1} - a_{y1} c_{y1}) (a_{y1} c_{y1} - a_{y1} c_{y1})^3 (a_{y1} c_{y1} - a_{y1} c_{y1}) (a_{y1} c_{y1} - a_{y1} c_{y1})^3 (a_{y1} c_{y1} - a_{y1} c_{y1}) (a_{y1} c_{y1} - a_{y1} c_{y1}$ $(a_{y1} c_{x1})^3 (b_{x1} d_{y2} - b_{y1} d_{x2}) (b_{y2} c_{x1} - b_{x2} c_{y1}) - 2 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (b_{y2} c_{x1} - b_{x2} c_{y1})^2 (c_{x1} c_{y2} - b_{y1} c_{x1})^3 (b_{y2} c_{x1} - b_{x2} c_{y1})^2 (c_{x1} c_{y2} - b_{y1} c_{x1})^3 (b_{y2} c_{x1} - b_{x2} c_{y1})^2 (c_{x1} c_{y2} - b_{y1} c_{x1})^3 (b_{y2} c_{x1} - b_{x2} c_{y1})^2 (c_{x1} c_{y2} - b_{y1} c_{x1})^3 (b_{y2} c_{x1} - b_{x2} c_{y1})^2 (c_{x1} c_{y2} - b_{y1} c_{x1})^3 (b_{y2} c_{x1} - b_{x2} c_{y1})^2 (c_{x1} c_{y2} - b_{y1} c_{x1})^3 (b_{y2} c_{x1} - b_{x2} c_{y1})^2 (c_{x1} c_{y2} - b_{y1} c_{x1})^3 (b_{y2} c_{x1} - b_{x2} c_{y1})^2 (c_{x1} c_{y2} - b_{y1} c_{x1})^3 (b_{y2} c_{x1} - b_{x2} c_{y1})^2 (c_{x1} c_{y2} - b_{y1} c_{x1})^3 (b_{y2} c_{x1} - b_{x2} c_{y1})^2 (c_{x1} c_{y2} - b_{y1} c_{x1})^3 (b_{y2} c_{x1} - b_{x2} c_{y1})^2 (c_{x1} c_{y2} - b_{y1} c_{x1})^2 (c_{x1} c_{y2} - b_{y1} c_{y1})^2 (c_{x1} c_{y2} - b_{y1} c_{y1} c_{y1})^2 (c_{x1} c_{y2} - b_{y1} c_{y1} c_{y1})^2 (c_{x1} c_{y2} - b_{y1} c_{y1} c_{y1} c_{y1} c_{y1})^2 (c_{x1} c_{y2} - b_{y1} c_{y1} c_{y2} c_{y1} c_{y1} c_{y1} c_{y1} c_{y1} c_{y1} c_{y1} c_{y1} c_{y1}$ $(c_{x2} c_{y1}) - 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{y2} c_{x1} - b_{x2} c_{y1})^2 +$ $4 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (b_{x1} c_{y1} - b_{y1} c_{x1})^3 - 4 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (b_{x1} b_{y2} - a_{y1} c_{x2})^3 (a_{x1} c_{y2} - a_{y1} c_{x2})^3$ $(b_{x2} \, b_{y1})^2 \, (b_{x1} \, c_{y2} - b_{y1} \, c_{x2}) + 6 \, (a_{x1} \, a_{y2} - a_{x2} \, a_{y1}) \, (a_{x1} \, b_{y1} - a_{y1} \, b_{x1})^2 \, (a_{x1} \, d_{y2} - a_{y1} \, d_{x2}) \, (c_{x1} \, c_{y2} - a_{y1} \, d_{x2}) \, (c$ $(c_{x2} c_{y1})^2 - 8 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{x1} d_{y1} - b_{y1} c_{x2}) (b_{$ $(b_{y1} d_{x1}) - 4(a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x2} b_{y2} - a_{y2} b_{x2}) (b_{x1} c_{y1} - b_{y1} c_{x1})^2 (b_{x1} d_{y1} - b_{y1} d_{x1}) +$ $72\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(b_{x1}\,d_{y1}-b_{y1}\,d_{x1}\right)\left(b_{x1}\,d_{y2}-a_{y1}\,b_{x2}\right)$ $(b_{y1} d_{x2}) - 24 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (b_{y2} c_{x1} - b_{x2} c_{y1})^2 +$ $12\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{2}\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)^{2}\left(a_{y2}\,b_{x1}-a_{x2}\,b_{y1}\right)\left(b_{x1}\,b_{y2}-b_{x2}\,b_{y1}\right)-4\left(a_{x1}\,a_{y2}-a_{y1}\,a_{x1}\right)^{2}$ $(a_{x2} a_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (b_{x1} c_{y2} - b_{y1} c_{x2}) (c_{x1} c_{y2} - c_{x2} c_{y1}) - 12 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y2} - a_{y2} a_{y1}) (a_{x2} b_{y2} - a_{y2} a_{y2}) - 12 (a_{y2} a_{y2} - a_{y2} a_{y1}) (a_{y2} a_{y2} - a_{y2} a_{y2}) (a_{y2} a_{y2} - a_{y2} a_{y2})$ $(a_{u1} b_{u2}) (a_{x1} d_{u1} - a_{u1} d_{x1})^2 (b_{x1} c_{u1} - b_{u1} c_{x1})^2 + 10 (a_{x1} c_{u1} - a_{u1} c_{x1})^3 (a_{x1} c_{u2} - a_{u1} c_{x2}) (a_{u2} b_{x1} - a_{u1} c_{x2})^3 (a_{x1} c_{u2} - a_{u1} c_{x2}) (a_{u2} b_{x1} - a_{u1} c_{x2})^3 (a_{x1} c_{u2} - a_{u1} c_{x2}) (a_{u2} b_{x1} - a_{u1} c_{x2})^3 (a_{x1} c_{u2} - a_{u1} c_{x2}) (a_{u2} b_{x1} - a_{u1} c_{x2})^3 (a_{x1} c_{u2} - a_{u1} c_{x2}) (a_{u2} c_{u2} - a_{u1} c_{u2}) (a_{u2} c_{u2} - a_{u2} c_{u2}) (a_{u2} c_{u2} - a_{u1} c_{u2}) (a_{u2} c_{u2} - a_{u2} c$ $a_{x2}\,b_{y1})\,(c_{x1}\,c_{y2}-c_{x2}\,c_{y1})-2\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})^4\,(a_{x2}\,c_{y2}-a_{y2}\,c_{x2})\,(b_{x1}\,c_{y2}-b_{y1}\,c_{x2})+24\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x2})^4$ $(a_{u1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} b_{y2} - b_{x2} b_{y1}) + 12 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y1} c_{y2} - a_{y1} c_{y2})^3 (a_{y1} c_{y2} - a_{y1}$ $(a_{y1} d_{x2})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} b_{y2} - b_{x2} b_{y1}) + 12 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y2} - a_{y1} c_{y1})^2 (a_{y1} a_{y2} - a_{y1} a_{y1})^2 (a_{y1} a_{y2} - a_{y1} a_{y1} a_{y1} - a_{y1} a_{y1})^2 (a_{y1} a_{y2} - a_{y1} a_{y1} a_{y1} - a_{y1} a_{y1} a_{y1} a_{y1} - a_{y1} a_$ $(a_{u1} d_{u2}) (b_{x1} c_{u2} - b_{u1} c_{x2})^2 + 36 (a_{x1} b_{u1} - a_{u1} b_{x1}) (a_{x1} c_{u2} - a_{u1} c_{x2})^2 (a_{x1} d_{u2} - a_{u1} d_{x2})^2 (a_{u2} c_{x1} - a_{u2} c_{x2})^2$ $a_{x2} c_{y1}$) $-84 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (b_{x1} d_{y1} - a_{y1} d_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x2}) (a_{x1}$ $(b_{y1} d_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) + 12 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (b_{x1} d_{y1} - a_{y1} b_{y2}) (a_{y1} d_{y1} - a_{y1} d_{y2}) (a_{y1} d_{y2} - a_{y1} d_{y2}) (a_{y1} d_{y2} - a_{y1} d_{y2}) (a_{y1} d_{y1} - a_{y1} d_{y2}) (a_{y1} d_{y2} - a_{y1} d_{y2}) (a_{y$ $b_{y1} d_{x1}$) $(d_{x1} d_{y2} - d_{x2} d_{y1}) - 12 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (b_{x1} c_{y1} - a_{y2} a_{y1}) (a_{y1} d_{y2} - a_{y1} d_{y2}) (a_{y2} d_{y1} - a_{y1} d_{y2})^2 (a_{y1} d_{y2} - a_{y1} d_{y2})^2 (a_{y1} d_{y1} - a_{y1} d_{y2})^2 (a_{y1} d_{y2} - a_{y1} d_{y2})^2 (a_{y1} d_{y2} - a_{y1} d_{y2})^2 (a_{y1} d_{y1} - a_{y1} d_{y1} - a_{y1} d_{y2})^2 (a_{y1} d_{y1} - a_{y1} d_{y1} (b_{y1} c_{x1})^2 + 12 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (b_{x1} d_{y2} - b_{y1} d_{x2})^2 +$ $12\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{2}\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)^{2}\left(a_{y2}\,b_{x1}-a_{x2}\,b_{y1}\right)\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)+6\left(a_{x1}\,b_{y1}-a_{y2}\,b_{y1}\right)^{2}\left(a_{y2}\,b_{y1}-a_{y2}\,b_{y1}\right)^{2}$ $(a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x2} d_{y2} - a_{y2} d_{x2}) (b_{x1} c_{y2} - b_{y1} c_{x2})^2 - 12 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} c_{y2} - a_{y2} d_{x2}) (a_{y1} c_{y2} - a_{y2} d_{y2})^2 - 12 (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y2} c_{y2} - a_{y2} d_{y2}) (a_{y1} c_{y2} - a_{y2} d_{y2})^2 - 12 (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y2} c_{y2} - a_{y2} d_{y2}) (a_{y1} c_{y2} - a_{y2} d_{y2})^2 - 12 (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y1} c_{y2} - a_{y2} a_{y2}) (a_{y1} c_{y2} - a_{y2} a_{y2})^2 - 12 (a_{y1} a_{y2} - a_{y2} a_{y2}) (a_{y1} c_{y2} - a_{y2} a_{y2}) (a_{y2} c_{y2} - a_{y2} a_{y2}) (a_{y2}$ $a_{y1} c_{x2})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} c_{y1} - b_{y1} c_{x1})^2 + 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a$ $(a_{y1} d_{x2}) (b_{y2} c_{x1} - b_{x2} c_{y1}) (c_{x1} c_{y2} - c_{x2} c_{y1}) + 4 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (b_{x1} b_{y2} - a_{y1}$ $(b_{x2} b_{y1}) (b_{x1} d_{y1} - b_{y1} d_{x1}) + 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (b_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x$

 $b_{y1}\,c_{x2})\,(c_{y2}\,d_{x1}-c_{x2}\,d_{y1})-12\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})^3\,(a_{x1}\,c_{y2}-a_{y1}\,c_{x2})\,(a_{x1}\,d_{y1}-a_{y1}\,d_{x1})\,(a_{x2}\,c_{y2}-a_{y1}\,c_{x2})$ $(a_{y2} c_{x2}) + 36 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (c_{x1} c_{y2} - c_{x2} c_{y1}) +$ $36\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)^{2}\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)^{2}\left(a_{y2}\,c_{x1}-a_{x2}\,c_{y1}\right)-48\left(a_{x1}\,b_{y1}-a_{y1}\,d_{x1}\right)^{2}$ $(a_{u1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^3 (a_{y2} c_{x1} - a_{x2} c_{y1}) - 30 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^3 (a_{y2} c_{x1} - a_{y2} c_{y1}) - 30 (a_{y1} c_{y1} - a_{y1} c_{y1} c_{y1}) - 30 (a_{y1} c_{y1} c_{y1} c_{y1} c_{y1} c_{y1}) - 30 (a_{y1} c_{y1} c_{y1} c_{y1} c_{y1} c_{y1}) - 30 (a_{y1} c_{y1} c_{y1} c_{y1} c_{y1} c_{y1} c_{y1}) - 30 (a_{y1} c_{y1} c_{y1$ $(a_{y1} b_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) + 12 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x2}) (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y2} a_{y2} - a_{y2} a_{y1}) (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y2} a_{y2} - a_{y2} a_{y2}) (a_{y$ $(a_{u1} b_{u1}) (a_{x1} b_{u2} - a_{u1} b_{x2}) (a_{x1} d_{u1} - a_{u1} d_{x1}) (b_{x1} d_{u2} - b_{u1} d_{x2})^2 + 12 (a_{x1} b_{u1} - a_{u1} b_{x1})^2 (a_{x1} b_{u2} - a_{u1} b_{u2})^2 (a_{x1} b_{u2} - a_{u2} b_{u2})^2 (a_{x1} b_{u2} - a_{u2} b_{u2})^2 (a_{x1} b_{u2} - a_{u2} b_{u2} - a_{u2} b_{u2} - a_{u2} b_{u2})^2 (a_{x1} b_{u2} - a_{u2} b_{u2$ $a_{y1}\,b_{x2})\,(a_{x1}\,c_{y2}-a_{y1}\,c_{x2})\,(b_{x1}\,c_{y2}-b_{y1}\,c_{x2})\,(c_{x2}\,d_{y2}-c_{y2}\,d_{x2}) - 4\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})\,(a_{x1}\,c_{y2}-a_{y2}\,d_{x2}) - 4\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x2})\,(a_{x2}\,c_{y2}-a_{y2}\,d_{x2}) - 4\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x2})\,(a_{x2}\,c_{y2}-a_{y2}\,d_{x2}) - 4\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x2})\,(a_{x2}\,c_{y2}-a_{y2}\,d_{x2}) - 4\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x2})\,(a_{x2}\,c_{y2}-a_{y2}\,d_{x2}) - 4\,(a_{x2}\,c_{y2}-a_{y2}\,d_{x2}) - 4\,(a_{x2}\,c_{y2}-a_$ $(a_{y1} c_{x2})^3 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) + 12 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} c_{y1} - a_{y1} b_{x1})^2 (a_{x1} a_{y2} - a_{y1} a_{y1} a_{y2} - a_{y1} a_{y1} a_{y1} a_{y1} - a_{y1} a_$ $b_{y1} c_{x1}$) $(b_{x1} d_{y1} - b_{y1} d_{x1}) (b_{x2} d_{y2} - b_{y2} d_{x2}) - 132 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} b_{y2} - a_{y2} a_{y1}) (a_{y1} a_{y1} - a_{y1} a_{y1})^2 (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y1} a_{y1} - a_{y1} a_{y1})^2 (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y1} a_{y1} - a_{y1} a_{y1})^2 (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y1} a_{y1} - a_{y1} a_{y1})^2 (a_{y1} a_{y2} - a_{y2} a_{y2}) (a_{y1} a_{y1} - a_{y1} a_{y1})^2 (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y1} a_{y1} - a_{y1} a_{y1})^2 (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y1} a_{y1} - a_{y1} a_{y1})^2 (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y1} a_{y1} - a_{y1} a_{y1})^2 (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y1} a_{y1} - a_{y1} a_{y1})^2 (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y1} a_{y1} - a_{y1} a_{y1})^2 (a_{y1} a_{y1} - a_{y1} a_{y1} - a_{y1} a_{y1} - a_{y1} a_{y1})^2 (a_{y1} a_{y1} - a_{y1} a_{y1} - a_{y$ $(b_{x2} b_{y1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) (c_{x1} d_{y1} - c_{y1} d_{x1}) + 12 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} d_{y1} - a_{y1}$ $a_{y1} d_{x1}$) $(b_{y2} d_{x1} - b_{x2} d_{y1}) + 48 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{y2} b_{x1} - a_{y1} d_{x1}) (a_{y2} d_{y1} - a_{y1} d_{y1}) (a_{y2$ $(a_{x2} b_{y1}) (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) + 18 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2$ $(a_{u1} d_{x2}) (c_{x1} c_{y2} - c_{x2} c_{y1}) + 204 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} d_{y2} - a_{y1} b_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{y2} b_{x1} - a_{y2} b_{y1}) (a_{y2} b_{y1} - a_{y2} b_{y1}) (a_{y2} b_{y2} - a_{y2} b_{y1}) (a_{y2} b_{y2} - a_{y2} b_{y2}) (a_{$ $b_{y1}\,d_{x2})\,(c_{x1}\,d_{y1}-c_{y1}\,d_{x1})+12\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})^2\,(a_{x1}\,b_{y2}-a_{y1}\,b_{x2})\,(a_{y2}\,d_{x1}-a_{x2}\,d_{y1})\,(b_{x1}\,c_{y1}-a_{y1}\,b_{x2})$ $b_{y1} c_{x1} (b_{x1} d_{y2} - b_{y1} d_{x2}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (b_{y2} c_{x1} - a_{y1} d_{x2})$ $b_{x2}\,c_{y1})\,(c_{x1}\,c_{y2}-c_{x2}\,c_{y1})-12\,(a_{x1}\,b_{y2}-a_{y1}\,b_{x2})\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})^3\,(a_{x1}\,d_{y2}-a_{y1}\,d_{x2})\,(b_{x2}\,c_{y2}-a_{y1}\,d_{x2})\,(a_{x1}\,d_{y2}-a_{y1}\,d_{x2})\,(a_{x2}\,d_{y2}-a_{y1}\,d_{y2})\,(a_{x2}\,d_{y2}$ $(b_{y2} c_{x2}) - 18 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{y2} d_{x1} - a_{x2} d_{y1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) (c_{x1} c_{y2} - c_{x2} c_{y1}) +$ $(6(a_{x1}b_{y1} - a_{y1}b_{x1})^2(a_{x1}c_{y2} - a_{y1}c_{x2})(a_{x1}d_{y1} - a_{y1}d_{x1})(b_{y2}c_{x1} - b_{x2}c_{y1})^2 + 18(a_{x1}b_{y1} - a_{y1}d_{x1})(a_{x1}b_{y1} - a_{y1}d_{x1})(a_{x1}b_{y1} - a_{y1}d_{x1})^2$ $(a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{y2} c_{x1} - b_{x2} c_{y1})^2 - 12 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} c_{x1} - b_{x2} c_{y1})^2 - 12 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} c_{x2}) (a_{y1} c_{y2} - a_{y1} c_{x2}) (a_{y1} c_{y2} - a_{y1} c_{y2}) (a_{y1} c_{y2} - a_{y1} c_{y$ $(a_{y1} b_{x2})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x1} d_{y2} - b_{y1} d_{x2}) + 16 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} b_{x2}) (a_{x$ $(a_{y1} c_{x1})^3 (a_{y2} b_{x1} - a_{x2} b_{y1}) (c_{x1} d_{y2} - c_{y1} d_{x2}) - 4 (a_{x1} c_{y1} - a_{y1} c_{x1})^4 (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x2} d_{y2} - a_{y1} c_{x1})^4 (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{y2} d_{y2} - a_{y1} d_{x2}) - 4 (a_{y2} b_{y1} - a_{y1} c_{y1})^4 (a_{y2} b_{y1} - a_{y2} b_{y1}) (a_{y2} d_{y2} - a_{y1} d_{y2}) - 4 (a_{y2} d_{y2} - a_{y1} d_{y2}) - 4 (a_{y2} d_{y2} - a_{y1} d_{y2}) (a_{y2} d_{y2} - a_{y1} d_{y2}) - 4 (a_{y1} d_{y2} - a_{y1} d_{y2}) - 4 (a_{y1} d_{y2} - a_{y1} d_{y2}) - 4 (a_{y1} d_{y2} - a_{y1} d_{y2}) - 4 (a_{y2} d_{y2} - a_{y1} d_{y2}) - 4$ $b_{y2}\,d_{x2}) + 12\left(a_{x1}\,b_{y1} - a_{y1}\,b_{x1}\right)\left(a_{x1}\,c_{y1} - a_{y1}\,c_{x1}\right)^2\left(a_{y2}\,b_{x1} - a_{x2}\,b_{y1}\right)\left(b_{x1}\,c_{y1} - b_{y1}\,c_{x1}\right)\left(b_{y2}\,d_{x1} - a_{y1}\,c_{x1}\right)^2$ $(b_{x2} d_{y1}) - 6 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x2} b_{y2} - a_{y2} b_{x2}) - 8 (a_{x1} c_{y1} - a_{y1} c_{x1})^4 (a_{x2} d_{y2} - a_{y2} d_{x2})^4 (a_{y1} c_{y1} - a_{y1} c_{y1})^4 (a_{y1} c_{y1} - a_{y1} c_{y1} c_{y1})^4 (a_{y1} c_{y1} - a_{y1} c_{y1} c_{y1} c_{y1})^4 (a_{y1} c_{y1} c_{y1} - a_{y1} c_{y1} c_{y1$ $(a_{y2} d_{x2}) (b_{x1} b_{y2} - b_{x2} b_{y1}) - 8 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x2} c_{y2} - a_{y2} c_{x2}) (b_{x1} c_{y1} - b_{y1} c_{x1}) (c_{y2} d_{x1} - b_{y1} c_{x2}) (c_{y2} d_{x2} - c_{y2} c_{x2}) (c_{y2$ $(a_{x2} d_{y1}) + 16 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{y2} d_{x1} - a_{x2} d_{y1}) (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{x2} d_{y2} - b_{y2} d_{x2}) +$ $12\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{2}\left(a_{y2}\,c_{x1}-a_{x2}\,c_{y1}\right)\left(b_{x1}\,b_{y2}-b_{x2}\,b_{y1}\right)\left(b_{x1}\,d_{y1}-b_{y1}\,d_{x1}\right) 4\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{3}\left(a_{y2}\,b_{x1}-a_{x2}\,b_{y1}\right)\left(b_{x1}\,b_{y2}-b_{x2}\,b_{y1}\right)\left(b_{x1}\,d_{y1}-b_{y1}\,d_{x1}\right)+12\left(a_{x1}\,b_{y1}-a_{y1}\,b_{y1}\right)$ $(a_{x1} \, b_{x1})^3 \, (a_{x1} \, b_{y2} - a_{y1} \, b_{x2}) \, (b_{x2} \, d_{y2} - b_{y2} \, d_{x2}) \, (c_{x2} \, d_{y2} - c_{y2} \, d_{x2}) + 24 \, (a_{x1} \, b_{y1} - a_{y1} \, b_{x1}) \, (a_{x1} \, b_{y2} - a_{y1} \, b_{x2}) \, (a_{x2} \, b_{y2} - a_{y1} \, b_{x2}) \, (a_{x2} \, d_{y2} - a_{y2} \, d_{x2}) + 24 \, (a_{x2} \, b_{y1} - a_{y1} \, b_{x1}) \, (a_{x1} \, b_{y2} - a_{y1} \, b_{x2}) \, (a_{x2} \, b_{y2} - a_{y2} \, d_{x2}) \, (a_{x2} \, d_{y2} - a_{y2} \, d_{x2}) + 24 \, (a_{x2} \, b_{y2} - a_{y1} \, b_{x2}) \, (a_{x2} \, b_{y2} - a_{y2} \, d_{x2}) \, (a_{x2} \, b_{y2} - a_{y2} \, d_{$ $(a_{u1} b_{u2}) (a_{x1} c_{u1} - a_{u1} c_{x1}) (a_{x1} d_{u2} - a_{u1} d_{x2}) (b_{x1} c_{u2} - b_{u1} c_{x2}) (b_{u2} c_{x1} - b_{x2} c_{u1}) + 12 (a_{x1} b_{u2} - b_{u1} c_{x2}) (a_{x2} c_{u1} - b_{u2} c_{u1}) + 12 (a_{x1} c_{u2} - b_{u1} c_{u2}) (a_{x2} c_{u1} - b_{u2} c_{u1}) + 12 (a_{x2} c_{u2} - b_{u1} c_{u2}) (a_{x2} c_{u1} - b_{u2} c_{u1}) + 12 (a_{x2} c_{u1} - b_{u2} c_{u2}) + 12 (a_{x2} c_{u1} - b_{u2} c_{u2}) + 12 (a_{x2} c_{u1} - b_{u2} c_{u2}) + 12 (a_{x2} c_{u2} - b_{u2}$ $(a_{y1} b_{x2})^2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x1} d_{y2} - b_{y1} d_{x2}) - 12 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x2}) (a_{y1} c_{y2} - a_{y1} c_{y2}) (a_{y1} c_{y2} - a_{y1} c_{y2}) - 12 (a_{y1} c_{y2} - a_{y2} a_{y1}) (a_{y2} c_{y2} - a_{y2} a_{y1}) (a_{y2} c_{y2} - a_{y2} a_{y1}) (a_{y1} c_{y2} - a_{y2} a_{y1}) (a_{y1} c_{y2} - a_{y2} a_{y1}) (a_{y2} c_{y2} - a_{y2} a_{y2}) (a_{y2} c_{y2} - a_{y2} a_{y2}$ $(a_{u1} c_{x1})^3 (a_{x1} d_{u2} - a_{u1} d_{x2}) (b_{x2} d_{u2} - b_{u2} d_{x2}) - 6 (a_{x1} c_{u1} - a_{u1} c_{x1})^3 (a_{x1} d_{u2} - a_{u1} d_{x2})^2 (a_{x2} b_{u2} - a_{u1} d_{x2})^2$ $a_{y2}b_{x2}$) - 16 $(a_{x1}b_{y2} - a_{y1}b_{x2})(a_{x1}c_{y1} - a_{y1}c_{x1})^3(a_{y2}b_{x1} - a_{x2}b_{y1})(c_{x1}d_{y1} - c_{y1}d_{x1}) +$ $36 \left(a_{x1} \, b_{y1} - a_{y1} \, b_{x1}\right)^2 \left(a_{x1} \, c_{y1} - a_{y1} \, c_{x1}\right) \left(a_{y2} \, b_{x1} - a_{x2} \, b_{y1}\right) \left(b_{x1} \, c_{y2} - b_{y1} \, c_{x2}\right) \left(c_{x2} \, d_{y2} - c_{y2} \, d_{x2}\right) + \\$ $12\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)\left(b_{x1}\,d_{y1}-b_{y1}\,d_{x1}\right)^{2}+$ $6\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)^{2}\left(a_{y2}\,b_{x1}-a_{x2}\,b_{y1}\right)\left(b_{x1}\,c_{y1}-b_{y1}\,c_{x1}\right)^{2}-6\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x2}\right)^{2}$ $(a_{y1} c_{x1})^3 (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} c_{y2} - b_{y1} c_{x2})^2 + 8 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x2} c_{y2} - b_{y1} c_{x2})^2 + 8 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} c_{y2} - b_{y1} c_{x2})^2 + 8 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{y2} b_{x1} - a_{y2} b_{y1}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{y2} b_{x1} - a_{y2} b_{y1}) (a_{y2} b_{y1} - a_{y2} b_{y1}) (a_{y2} b_{y2} - a_{y2} b_{y1}) (a_{y2} b_{y2} - a$ $b_{y2}\,c_{x2})\,(c_{x1}\,c_{y2}-c_{x2}\,c_{y1})-8\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})\,(a_{x1}\,b_{y2}-a_{y1}\,b_{x2})\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})\,(b_{x1}\,c_{y2}-a_{y2}\,b_{x3})$ $(b_{y1} c_{x2})^3 - 12 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) (b_{y2} c_{x1} - a_{y1} c_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{x1} d_{y2} - b_{y1} d_{x2}) (a_{y2} c_{x1} - a_{y1} c_{x1})^2 (a_{y2} b_{x1} - a_{y2} b_{y1}) (a_{y2} c_{x1} - a_{y1} c_{x1})^2 (a_{y2} c_{x1} - a_{y2} c_{x1})^2 (a_{y2} c_{x2} - a_{y2} c_{x1})^2 (a_{y2} c_{x1} - a_{y2} c_{x2})^2 (a_{y2} c_{x2} - a_{y2} c_{$ $b_{x2} c_{y1}) + 4 \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right)^3 \left(a_{y2} b_{x1} - a_{x2} b_{y1}\right) \left(b_{x1} b_{y2} - b_{x2} b_{y1}\right) \left(b_{x1} d_{y2} - b_{y1} d_{x2}\right) - 24 \left(a_{x1} b_{y1} - a_{y1} c_{x1}\right)^3 \left(a_{y2} b_{x1} - a_{x2} b_{y1}\right) \left(a_{y1} b_{y2} - a_{y1} c_{x1}\right)^3 \left(a_{y2} b_{x1} - a_{x2} b_{y1}\right) \left(a_{y1} b_{y2} - a_{y1} c_{x1}\right)^3 \left(a_{y2} b_{x1} - a_{x2} b_{y1}\right) \left(a_{y1} b_{y2} - a_{y1} c_{x1}\right)^3 \left(a_{y2} b_{x1} - a_{x2} b_{y1}\right) \left(a_{y2} b_{x1} - a_{y1} c_{x1}\right)^3 \left(a_{y2} b_{x1} - a_{x2} b_{y1}\right) \left(a_{y1} b_{y2} - a_{y1} c_{x1}\right)^3 \left(a_{y2} b_{x1} - a_{x2} b_{y1}\right) \left(a_{y1} b_{y2} - a_{y1} b_{y1}\right) \left(a_{y2} b_{x1} - a_{y1} c_{x1}\right)^3 \left(a_{y2} b_{x1} - a_{x2} b_{y1}\right) \left(a_{y1} b_{y2} - a_{y1} b_{y1}\right) \left(a_{y2} b_{y1} - a_{y1} b_{y1}\right$ $(a_{y1} b_{x1})^3 (a_{x2} d_{y2} - a_{y2} d_{x2}) (b_{x1} c_{y2} - b_{y1} c_{x2}) (c_{x1} c_{y2} - c_{x2} c_{y1}) + 12 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y2} c_{y1}) + 12 (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y1} a_{y2} - a_{y2} a_{y2}) (a_{y2} a_{y2} - a_{y2} a_{y2}) (a_{y2} a_{y2} - a_{y2} a_{y2}) (a_{y1} a_{y2} - a_{y2} a_{y2}) (a_{y2} a_{y2} - a_{y2} a_{y2})$ $(a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) (c_{x1} c_{y2} - c_{x2} c_{y1}) + 72 (a_{x1} a_{y2} - a_{y1} c_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1}$

 $a_{x2}\,a_{y1})\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})\,(a_{x1}\,d_{y1}-a_{y1}\,d_{x1})^3\,(b_{y2}\,c_{x1}-b_{x2}\,c_{y1})+12\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})^2\,(a_{x1}\,d_{y2}-a_{y1}\,b_{x1})^2$ $(a_{u1} d_{u2})^2 (a_{u2} b_{u2} - a_{u2} b_{u2}) (b_{u1} d_{u1} - b_{u1} d_{u1}) - 24 (a_{u1} b_{u1} - a_{u1} b_{u1}) (a_{u1} b_{u2} - a_{u1} b_{u2}) (a_{u1} d_{u1} - a_{u1} d_{u1}) - 24 (a_{u1} b_{u1} - a_{u1} b_{u1}) (a_{u1} b_{u2} - a_{u1} b_{u2}) (a_{u1} d_{u1} - a_{u1} d_{u1}) - 24 (a_{u1} b_{u1} - a_{u1} b_{u1}) (a_{u1} b_{u2} - a_{u1} b_{u2}) (a_{u1} d_{u1} - a_{u1} d_{u1}) - 24 (a_{u1} b_{u1} - a_{u1} b_{u1}) (a_{u1} d_{u2} - a_{u1} d_{u1}) - 24 (a_{u1} b_{u1} - a_{u1} b_{u1}) (a_{u1} d_{u1} - a_{u1} d_{u1}) - 24 (a_{u1} b_{u1} - a_{u1} d_{u1}) (a_{u1} d_{u1} - a_{u1} d_{u1}) - 24 (a_{u1} d_{u1} - a_{u1} d_{u1}) (a_{u1} d_{u1} - a_{u1} d_{u1}) - 24 (a_{u1} d_{u1} - a_{u1} d_{u1}) (a_{u1} d_{u1} - a_{u1} d_{u1}) - 24 (a_{u1} d_{u1} - a_{u1} d_{u1}) (a_{u1} d_{u1} - a_{u1} d_{u1}) - 24 (a_{u1} d_{u1} - a_{u1} d_{u1}) (a_{u1} d_{u1} - a_{u1} d_{u1}) - 24 (a_{u1} d_{u1} - a_{u1} d_{u1}) - 24 (a_{u1} d_{u1} - a_{u1} d_{u1}) (a_{u1} d_{u1} - a_{u1} d_{u1}) - 24 (a_{u1} d_{u1} - a_{u1} d_{u1$ $(a_{y1} d_{x1})^3 (a_{y2} c_{x1} - a_{x2} c_{y1}) + 24 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} d_{x1} - a_{y2} d_{x2})$ $(a_{x2} d_{y1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) - 16 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{y2} d_{x1} - b_{x2} d_{y1}) (b_{x2} c_{y2} - b_{y1} c_{x1}) (b_{y2} d_{x1} - b_{x2} d_{y1}) (b_{x2} c_{y2} - b_{y1} c_{x1}) (b_{y2} d_{x1} - b_{y2} d_{y1}) (b_{x2} c_{y2} - b_{y1} c_{x1}) (b_{y2} d_{x1} - b_{y2} d_{y1}) (b_{x2} c_{y2} - b_{y1} c_{x1}) (b_{y2} d_{x1} - b_{y2} d_{y1}) (b_{x2} c_{y2} - b_{y1} c_{x1}) (b_{y2} d_{x1} - b_{y2} d_{y1}) (b_{x2} c_{y2} - b_{y1} c_{x1}) (b_{y2} d_{x1} - b_{y2} d_{y1}) (b_{x2} c_{y2} - b_{y1} c_{x1}) (b_{y2} d_{x1} - b_{y2} d_{y1}) (b_{x2} c_{y2} - b_{y1} c_{x1}) (b_{y2} d_{x1} - b_{y2} d_{y1}) (b_{x2} c_{y2} - b_{y1} c_{x1}) (b_{y2} d_{x1} - b_{y2} d_{y1}) (b_{x2} c_{y2} - b_{y1} c_{x1}) (b_{y2} d_{x1} - b_{y2} d_{y1}) (b_{x2} c_{y2} - b_{y1} c_{x1}) (b_{y2} d_{x1} - b_{y2} d_{y1}) (b_{x2} c_{y2} - b_{y1} c_{x1}) (b_{y2} d_{x1} - b_{y2} d_{y1}) (b_{x2} c_{y2} - b_{y1} c_{x1}) (b_{y2} d_{x1} - b_{y2} d_{y1}) (b_{x2} c_{y2} - b_{y1} c_{x1}) (b_{y2} d_{x1} - b_{y2} d_{y1}) (b_{x2} c_{y2} - b_{y1} c_{x1}) (b_{y2} d_{x1} - b_{y2} d_{y1}) (b_{x2} c_{y2} - b_{y1} c_{x1}) (b_{y2} d_{x1} - b_{y2} d_{y1}) (b_{x2} c_{y2} - b_{y1} d_{y2}) (b_{x2} d_{x1} - b_{y2} d_{y1}) (b_{x2} d_{x2} - b_{y2} d_{y1}) (b_{x2} d_{x2} - b_{y2} d_{y2}) (b_{x2} d_{x2} - b_{y2} d_{x2}) (b_{x2} d_{x2} - b_{y2} d_{y2}) (b_{x2} d_{x2} - b_{y2} d_{x2}) (b_{x2} d_{x2} - b_{x2} d_{x2}) (b_{x$ $(b_{y2} c_{x2}) + 24 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x2} d_{y2} - a_{y2} d_{x2}) (b_{y2} d_{x1} - b_{x2} d_{y1}) +$ $18\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)\left(b_{x1}\,b_{y2}-b_{x2}\,b_{y1}\right)^{2}\left(c_{x1}\,c_{y2}-c_{x2}\,c_{y1}\right)-12\left(a_{x1}\,b_{y1}-a_{y1}\,b_{y2}-a_{y2}\,b_{y1}\right)^{2}$ $(a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} d_{y1} - b_{y1} d_{x1}) (b_{x2} c_{y2} - b_{y2} c_{x2}) + 24 (a_{x1} b_{y1} - b_{y1} d_{x2}) (a_{y1} c_{y2} - b_{y2} c_{y2}) + 24 (a_{y1} c_{y1} - b_{y1} d_{y2}) (a_{y1} c_{y2} - b_{y2} c_{y2}) + 24 (a_{y1} c_{y1} - b_{y2} c_{y2} c_{y2}) + 24 (a_{y1} c_{y2} c_{y2} - b_{y2} c_{y2}) + 24 (a_{y1} c_{y2} c_{y2} c_{y2} c_{y2}) + 24 (a_{y1} c_{y2} c_{y2} c_{y2} c_{y2} c_{y2}) + 24 (a_{y1} c_{y2} c_{y2} c_{y2} c_{y2} c_{y2} c_{y2}) + 24 (a_{y1} c_{y2} c$ $(a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x1} d_{y1} - b_{y2} b_{y1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x1} d_{y1} - b_{y2} b_{y1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x1} d_{y1} - b_{y2} b_{y1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x1} d_{y1} - b_{y2} b_{y1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x1} d_{y1} - b_{y2} b_{y1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x1} d_{y1} - b_{y2} b_{y1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x1} d_{y1} - b_{y2} b_{y1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x1} d_{y1} - b_{y2} b_{y1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x1} d_{y1} - b_{y2} b_{y1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x1} d_{y1} - b_{y2} b_{y1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x1} d_{y1} - b_{y2} b_{y1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x1} d_{y1} - b_{y2} b_{y1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x1} d_{y1} - b_{y2} b_{y1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x1} d_{y1} - b_{y1} c_{x2}) (b_{x1} d_{y$ $b_{y1} d_{x1}$) $-8 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x2} c_{y2} - a_{y2} c_{x2}) (b_{x1} c_{y1} - b_{y1} c_{x1}) (c_{x2} d_{y2} - c_{y2} d_{x2}) + 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x2} c_{y2} - a_{y2} c_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (c_{x2} c_{y2} - a_{y2} c_{x2}) + 12 (a_{x1} b_{y1} - a_{y1} c_{x1}) (a_{x2} c_{y2} - a_{y2} c_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x2} c_{y2} - a_{y2} c_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x2} c_{y2} - a_{y2} c_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x2} c_{y2} - a_{y2} c_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x2} c_{y2} - a_{y2} c_{x2}) (a_{x2} c_{y2} - a_{y2} c_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x2} c_{y2} - a_{y2} c_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x2} c_{y2} - a_{y2} c_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x2} c_{y2} - a_{y2} c_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x2} c_{y2} - a_{y2} c_{x2}) (a_{x2} c_{y2} - a_{y2} c_$ $(a_{x1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x2} d_{y2} - a_{y2} d_{x2}) (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} c_{y1} - b_{y1} c_{x1}) - 24 (a_{x1} b_{y1} - b_{y1} c_{x1}) - 24 (a_{x1$ $(a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{y2} c_{x1} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x2}) (a_{x2} c_{y1} - a_{y1} c_{x2}) (a_{x2} c_{y1} - a_{y2} c_{x2}) (a_{x2} c_{y2} - a_{y1} c_{x2}) (a_{x2} c_{y2} - a_{y2} c_{y2}) (a_{x2} c_{y$ $b_{x2} c_{y1}$) $-12 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x2} d_{y2} - a_{y1} d_{x2}) (a_{y2} - a_{y1} d_{y2}) (a_{y2$ $(b_{y1} d_{x2})^2 + 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (a_{x2} b_{y2} - a_{y2} b_{x2}) (b_{x1} d_{y2} - b_{y1} d_{x2}) - b_{y1} d_{x2}$ $36\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)\left(a_{y2}\,c_{x1}-a_{x2}\,c_{y1}\right)\left(c_{x1}\,c_{y2}-c_{x2}\,c_{y1}\right)+$ $18\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{2}\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)^{2}\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(a_{y2}\,c_{x1}-a_{x2}\,c_{y1}\right)-6\left(a_{x1}\,a_{y2}-a_{y1}\,d_{x2}\right)$ $(a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1}) (c_{x1} c_{y2} - c_{x2} c_{y1})^2 + 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y1} - a_{$ $(a_{u1} d_{x1})^2 (a_{x2} b_{u2} - a_{u2} b_{x2}) (b_{x1} d_{u1} - b_{u1} d_{x1}) - 24 (a_{x1} c_{u1} - a_{u1} c_{x1}) (a_{x1} c_{u2} - a_{u1} c_{x2})^3 (a_{x1} d_{u1} - a_{u1} c_{x2})^3 (a_{x1} d_{u1} - a_{u1} c_{x2})^3 (a_{x2} d_{u2} - a_{u2} d_{u2}) + a_{u1} d_{u2} - a_{u2} d_{u2} - a_{u2} d_{u2} - a_{u2} d_{u2} - a_{u2} d_{u2} - a_{u2}$ $a_{y1} d_{x1}) \left(b_{x1} b_{y2} - b_{x2} b_{y1}\right) - 12 \left(a_{x1} a_{y2} - a_{x2} a_{y1}\right) \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right)^{2} \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right) \left(b_{x1} c_{y2} - a_{y1} d_{x1}\right)^{2} d_{x1} d_{y1} - a_{y1} d_{x1} d_{y1} + a_{y1} d_{x1} d_{y1} d_{x1} d_{y1} + a_{y1} d_{x1} d_{x1} d_{y1} + a_{y1} d_{x1} d_{x1} d_{y1} + a_{y1} d_{x1} d_$ $(b_{y1} c_{x2})^2 - 12 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} d_{y1} - b_{y1} d_{x1}) +$ $12\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)^{2}\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)\left(b_{x1}\,c_{y1}-b_{y1}\,c_{x1}\right)^{2}+12\left(a_{x1}\,c_{y1}-a_{y1}\,c_{y1}\right)^{2}+12\left(a_{x1}\,a_{y1}-a_{y1}\,a_{y1}\right)^{2}+12\left(a_{x1$ $(a_{y1} c_{x1})^3 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x2} c_{y2} - a_{y2} c_{x2}) - 18 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} c_{y1} - a_{y1} c_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x2}) (a_$ $(a_{u1} c_{x1})^2 (a_{x1} d_{u1} - a_{u1} d_{x1}) (c_{x1} c_{u2} - c_{x2} c_{u1}) + 12 (a_{x1} b_{u2} - a_{u1} b_{x2}) (a_{x1} c_{u1} - a_{u1} c_{x1})^3 (a_{x1} d_{u1} - a_{u$ $a_{y1} d_{x1}$) $(b_{x2} c_{y2} - b_{y2} c_{x2}) - 4 (a_{x1} c_{y1} - a_{y1} c_{x1})^4 (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{y2} d_{x1} - b_{x2} d_{y1}) - 8 (a_{x1} c_{y1} - a_{y1} c_{x1})^4 (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{y2} d_{x1} - b_{x2} d_{y1}) - 8 (a_{x1} c_{y1} - a_{y1} c_{x1})^4 (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{y2} d_{x1} - a_{y2} d_{y1}) - 8 (a_{y1} c_{y1} - a_{y1} c_{y1}) - 8 (a_{y1} c_{y1} - a_{y1} c_{y1}) (a_{y2} d_{y1} - a_{y1} c_{y1}) (a_{y2} d_{y1} - a_{y1} c_{y1}) - 8 (a_{y1} c_{y1} - a_{y1} c_{y1}) (a_{y2} d_{y1} - a_{y1} c_{y1}) (a_{y2} d_{y1$ $(a_{y1} c_{x1})^4 (a_{y2} d_{x1} - a_{x2} d_{y1}) (b_{x1} b_{y2} - b_{x2} b_{y1}) - 12 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (b_{x1} c_{y2} - a_{y1} b_{x2})^2 (a_{y1} c_{y1} - a_{y1} c_{y1})^2 (a_{y1} c_{y2} - a_{y1} c_{y1})^2 (a_{y1} c_{y1} - a_{y1} c_{y1})^2 (a_{y1} c_{y2} - a_{y1} c_{y1})^2 (a_{y1} c_{y1} - a_{y1} c_{y1} c_{y1})^2 (a_{y1} c_{y1} - a_{y1} c_{y1} c_{y1} c_{y1})^2 (a_{y1} c_{y1} - a_{y1} c_{y1} c_$ $b_{y1} c_{x2} (b_{x1} d_{y1} - b_{y1} d_{x1}) - 24 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (c_{x1} d_{y1} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (c_{x1} d_{y1} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (c_{x1} d_{y1} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (c_{x1} d_{y1} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (c_{x1} d_{y1} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (c_{x1} d_{y1} - a_{y1} c_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (c_{x1} d_{y1} - a_{y1} c_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (c_{x1} d_{y1} - a_{y1} c_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (c_{x1} d_{y1} - a_{y1} c_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (c_{x1} d_{y1} - a_{y1} c_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (c_{x1} d_{y1} - a_{y1} c_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (c_{x1} d_{y1} - a_{y1} c_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (c_{x1} d_{y1} - a_{y1} c_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (c_{x1} d_{y1} - a_{y1} c_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (c_{x1} d_{y1} - a_{y1} c_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (c_{x1} d_{y1} - a_{y1} c_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (c_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (c_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (c_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (c_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (c_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (c_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (c_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (c_{x1} c_{y2} - a_{y1} c_{y2}) (a_{x1} c_{y2} - a_{y1} c$ $(c_{y1} d_{x1}) - 24 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{y2} c_{x1} - b_{y2} c_{x2}) (b_{y2} c_{x1} - b_{y2} c_{x2}) (b_{y2} c_{x2} - b_{y2} c_{x2}) (b_{y2} c_{x1} - b_{y2} c_{x2}) (b_{y2} c_{x2} - b_{y2} c_{x2}) (b_{y2} c_{y2} - b_{y2} c_{y2}) (b_{y$ $(b_{x2} c_{y1}) - 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{x2} c_{y2} - b_{y2} c_{x2}) (b_{x2} d_{y2} - b_{y2} d_{x2}) + 12 (a_{x1} b_{y1} - b_{y1} c_{x1}) (a_{y1} b_{y2} c_{y2} - b_{y2} c_{x2}) (a_{y2} b_{y2} c_{y2} - b_{y2} c_{x2}) + 12 (a_{y1} b_{y1} - b_{y1} c_{y1} c_{y2} - b_{y2} c_{y2})$ $(a_{x1} \ b_{x1}) \ (a_{x1} \ b_{y2} - a_{y1} \ b_{x2})^2 \ (b_{x1} \ c_{y1} - b_{y1} \ c_{x1}) \ (b_{x1} \ c_{y2} - b_{y1} \ c_{x2}) \ (b_{x1} \ d_{y2} - b_{y1} \ d_{x2}) + 6 \ (a_{x1} \ b_{y1} - b_{y1} \ d_{x2}) + 6 \ (a_{x1} \ b_{y1} - b_{y1} \ d_{x2}) + 6 \ (a_{x1} \ b_{y1} - b_{y1} \ d_{x2}) + 6 \ (a_{x2} \ b_{y1} - b_{y1} \ d_{x2}) + 6 \ (a_{x1} \ b_{y1} - b_{y1} \ d_{x2}) + 6 \ (a_{x2} \ b_{y1} - b_{y1} \ d_{x2}) + 6 \ (a_{x2} \ b_{y1} - b_{y1} \ d_{x2}) + 6 \ (a_{x2} \ b_{y1} - b_{y1} \ d_{x2}) + 6 \ (a_{x2} \ b_{y1} - b_{y1} \ d_{x2}) + 6 \ (a_{x2} \ b_{y1} - b_{y1} \ d_{x2}) + 6 \ (a_{x2} \ b_{y1} - b_{y1} \ d_{x2}) + 6 \ (a_{x2} \ b_{y1} - b_{y1} \ d_{x2}) + 6 \ (a_{x2} \ b_{y1} - b_{y1} \ d_{x2}) + 6 \ (a_{x2} \ b_{y1} - b_{y1} \ d_{x2}) + 6 \ (a_{x2} \ b_{y1} - b_{y1} \ d_{x2}) + 6 \ (a_{x2} \ b_{y1} - b_{y1} \ d_{x2}) + 6 \ (a_{x2} \ b_{y1} - b_{y1} \ d_{x2}) + 6 \ (a_{x2} \ b_{y1} - b_{y1} \ d_{x2}) + 6 \ (a_{x2} \ b_{y1} - b_{y1} \ d_{x2}) + 6 \ (a_{x2} \ b_{y1} - b_{y1} \ d_{x2}) + 6 \ (a_{x2} \ b_{y1} - b_{y1} \ d_{x2}) + 6 \ (a_{x2} \ b_{y1} - b_{y2} \ d_{x2}) + 6 \ (a_{x2} \ b_{y1} - b_{y2} \ d_{x2}) + 6 \ (a_{x2} \ b_{y1} - b_{y2} \ d_{x2}) + 6 \ (a_{x2} \ b_{y2} (a_{x1} \, b_{x1})^2 \, (a_{x1} \, b_{y2} - a_{y1} \, b_{x2}) \, (b_{x1} \, b_{y2} - b_{x2} \, b_{y1}) \, (b_{x1} \, c_{y1} - b_{y1} \, c_{x1}) \, (c_{x2} \, d_{y2} - c_{y2} \, d_{x2}) - 6 \, (a_{x1} \, b_{y1} - b_{y1} \, c_{y2}) \, (a_{x1} \, b_{y2} - a_{y1} \, b_{x2}) \, (a_{$ $(a_{u1} b_{x1})^3 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{y2} c_{x1} - b_{x2} c_{y1}) (c_{x2} d_{y2} - c_{y2} d_{x2}) + 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y1} - a_{y1} b_{x2})^2 (a_{y1} d_{y2} - a_{y2} d_{y2}) + 12 (a_{y1} d_{y2} - a_{y1} d_{y2}) + 12 (a_{y1} d_{y2} - a_{y1} d_{y2})^2 (a_{y1} d_{y2} - a_{y1} d_{y2}) + 12 (a_{y1} d_{y2} - a_{y1} d_{y2} - a_{y1} d_{y2}) + 12 (a_{y1} d_{y2} - a_{y1} d_{y2} - a_{y1} d_{y2}) + 12 (a_{y1} d_{y2} - a_{y1} d_{y2} - a_{y1} d_{y2}) + 12 (a_{y1} d_{y2} - a_{y1} d_{y2} - a_{y1} d_{y2}) + 12 (a_{y1} d_{y2} - a_{y1} d_{y2} - a_{y1} d_{y2}) + 12 (a_{y1} d_{y2} - a_{y1} d_{y2} - a_{y1} d_{y2}) + 12 (a_{y1} d_{y2} - a_{y1} d_{y2} - a_{y1} d_{y2}) + 12 (a_{y1} d_{y2} - a_{y1} d_{y2} - a_{y1} d_{y2}) + 12 (a_{y1} d_{y2} - a_{y1} d_{y2} - a_{y1} d_{y2}) + 12 (a_{y1} d_{y2} - a_{y1} d_{y2} - a_{y1} d_{y2}) + 12 (a_{y1} d_{y2} - a_{y1} d_{y2} - a_{y1} d_{y2}) + 12 (a_{y1} d_{y2} - a_{y1} d_{y2} - a_{y1} d_{y2}) + 12 (a_{y1} d_{y2} - a_{y1} d_{y2} - a_{y2}$ $(a_{v1} d_{v1})^2 (a_{v2} b_{v2} - a_{v2} b_{v2}) (b_{v1} d_{v2} - b_{v1} d_{v2}) + 24 (a_{v1} a_{v2} - a_{v2} a_{v1}) (a_{v1} b_{v1} - a_{v1} b_{v1})^2 (a_{v1} d_{v1} - a_{v2} b_{v2}) (a_{v1} d_{v2} - a_{v2} a_{v1}) (a_{v2} b_{v2} - a_{v2} b_{v2}) (a_{v2} b_{v2} - a_{v2} b_{v2} - a_{v2} b_{v2} - a_{v2} b_{v2}) (a_{v2} b_{v2} - a_{v2} b_{v2} - a_$ $(a_{u1} d_{x1}) (b_{x1} d_{y1} - b_{u1} d_{x1}) (b_{x2} d_{y2} - b_{y2} d_{x2}) + 18 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y2} - a_{y1} b_{x2})$ $(a_{y1} d_{x2}) (b_{x1} d_{y2} - b_{y1} d_{x2}) (b_{x2} c_{y2} - b_{y2} c_{x2}) - 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x2} c_{y2} - a_{y2} d_{x2})$ $b_{y2} c_{x2}$) $(b_{x2} d_{y2} - b_{y2} d_{x2}) - 24 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x2} d_{y2} - a_{y2} d_{x2}) (b_{y2} d_{x1} - a_{y1} d_{x1}) (a_{x2} d_{y2} - a_{y2} d_{x2}) (a_{y2} d_{y2} - a_{y2} d_{x2}) (a_{y2} d_{y2} - a_{y2} d_{y2}) (a_{$ $b_{x2} d_{y1}$) $-24 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} d_{y1} - a_{y1} c_{x1})^2 (a_{y1} d_{y2} - a_{y1} d_{y2}) (a_{y2} b_{y1} - a_{y2} b_{y1}) (a_{y1} d_{y1} - a_{y1} d_{y2}) (a_{y1} d_{y2} - a_{y1} d_{y2}) (a_{y2} d_{y1} - a_{y1} d_{y2}) (a_{y1} d_{y1} - a_{y1} d_{y2}) (a_{y1} d_{y2} - a_{y1} d_{y2}) (a_{y1} d_{y1} - a_{y1} d_{y2}) (a_{y1} d_{y2} - a_{y1} d_{y2}) (a_{y1} d_{y1} - a_{y1} d_{y2}) (a_{y1} d_{y2} - a_{y1} d_{y2}) (a_$ $(b_{y1} d_{x1}) - 36 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{y2} c_{x1} - b_{x2} c_{y1}) (d_{x1} d_{y2} - d_{x2} d_{y1}) +$ $72\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(a_{y2}\,b_{x1}-a_{x2}\,b_{y1}\right)\left(b_{x1}\,c_{y2}-a_{y1}\,d_{x2}\right)\left(a_{y2}\,b_{y1}-a_{y2}\,b_{y1}\right)\left(a_{y1}\,a_{y2}-a_{y1}\,a_{y2}\right)\left(a_{y2}\,b_{y1}-a_{y2}\,b_{y1}\right)\left(a_{y1}\,a_{y2}-a_{y1}\,a_{y2}\right)\left(a_{y2}\,b_{y1}-a_{y2}\,b_{y1}\right)\left(a_{y1}\,a_{y2}-a_{y1}\,a_{y2}\right)\left(a_{y2}\,a_{y1}-a_{y2}\,a_{y1}\,a_{y2}\right)\left(a_{y2}\,a_{y1}-a_{y2}\,a_{y1}\,a_{y2}\right)\left(a_{y2}\,a_{y1}-a_{y2}\,a_{y1}\,a_{y2}\right)\left(a_{y2}\,a_{y1}-a_{y2}\,a_{y1}\,a_{y2}\right)\left(a_{y2}\,a_{y1}-a_{y2}\,a_{y1}\,a_{y2}\right)\left(a_{y2}\,a_{y1}-a_{y2}\,a_{y1}\,a_{y2}\right)\left(a_{y2}\,a_{y1}-a_{y2}\,a_{y1}\,a_{y2}\right)\left(a_{y2}\,a_{y1}-a_{y2}\,a_{y1}\,a_{y2}\right)\left(a_{y2}\,a_{y1}-a_{y2}\,a_{y1}\,a_{y2}\right)\left(a_{y2}\,a_{y1}-a_{y2}\,a_{y1}\,a_{y2}\right)\left(a_{y2}\,a_{y1}-a_{y2}\,a_{y1}\,a_{y2}\right)\left(a_{y2}\,a_{y1}-a_{y2}\,a_{y1}\,a_{y2}\right)\left(a_{y2}\,a_{y1}-a_{y2}\,a_{y1}\,a_{y2}\right)\left(a_{y2}\,a_{y1}-a_{y2}\,a_{y1}\,a_{y2}\right)\left(a_{y2}\,a_{y1}-a_{y2}\,a_{y1}\,a_{y2}\right)\left(a_{y2}\,a_{y1}-a_{y2}\,a_{y1}\,a_{y2}\right)\left(a_{y2}\,a_{y1}-a_{y2}\,a_{y1}\,a_{y2}\right)\left(a_{y2}\,a_{y1}-a_{y2}\,a_{y1}\,a_{y2}\right)\left(a_{y2}\,a_{y1}-a_{y2}\,a_{y2}\,a_{y1}\,a_{y2}\right)\left(a_{y2}\,a_{y1}-a_{y2}\,a_{y2}\,a_{y1}\,a_{y2}\right)\left(a_{y2}\,a_{y1}-a_{y2}\,a_{y1}\,a_{y2}\right)\left(a_{y2}\,a_{y1}-a_{y2}\,a_{y1}\,a_{y2}\right)\left(a_{y2}\,a_{y1}-a_{y2}\,a_{y1}\,a_{y2}\right)\left(a_{y2}\,a_{y1}-a_{y2}\,a_{y2}\,a_{y2}\,a_{y2}\right)\left(a_{y2}\,a_{y1}-a_{y2}\,a_{y2}\,a_{y2}\,a_{y2}\right)\left(a_{y2}\,a_{y2}\,a_{y2}\,a_{y2}\,a_{y2}\,a_{y2}\,a_{y2}\right)\left(a_{y2}\,a$ $(b_{y1} c_{x2}) - 124 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{y2} d_{x1} - a_{x2} d_{y1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) (b_{y2} c_{x1} - b_{x2} c_{y1}) +$ $20\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{3}\left(a_{x2}\,b_{y2}-a_{y2}\,b_{x2}\right)\left(b_{x1}\,d_{y1}-b_{y1}\,d_{x1}\right)\left(c_{x1}\,d_{y2}-c_{y1}\,d_{x2}\right)+148\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{3}$ $(a_{y1} b_{x1})^3 (a_{y2} c_{x1} - a_{x2} c_{y1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) (b_{y2} d_{x1} - b_{x2} d_{y1}) - 36 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} b_{x1}) (a_{x$ $(a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) - 6 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y2} a_{y1}) (a_{y1} c_{y2} - a_{y1} a_{y2}) - 6 (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y1} a_{y1} - a_{y2} a_{y1}) (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y2} a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y2} a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y2} a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y2} a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y2} a_{y2} - a_{y2} a_{y2}) (a_{y2$

 $a_{y1} b_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (b_{x1} c_{y2} - b_{y1} c_{x2})^2 - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x2} d_{y2} - a_{y1} c_{y2})^2 (a_{x2} d_{y2} - a$ $(a_{y2} d_{x2}) (b_{x1} d_{y2} - b_{y1} d_{x2}) + 24 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x2} d_{y2} - a_{y2} d_{x2}) (c_{x2} d_{y2} - a_{y2} d_{x2})$ $(c_{y2} d_{x2}) + 24 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (b_{y2} d_{x1} - b_{x2} d_{y1}) (c_{x1} d_{y2} - a_{y1} c_{x1}) (a_{y2} d_{y1} - a_{y1} c_{y1}) (a_{y1} d_{y2} - a_{y1} c_{y1}) (a_{y2} d_{y1} - a_{y1} c_{y1}) (a_{y2} d_{y1} - a_{y1} c_{y1}) (a_{y1} d_{y2} - a_{y1} c_{y1}) (a_{y2} d_{y1} - a_{y1} c_{y1}) (a_{y1} d_{y2} - a_{y1} c_{y1}) (a_{y1} d_{y1} - a_{y1} c_{y1}) (a_{y$ $(a_{v1} d_{v2}) - 24 (a_{x1} b_{v1} - a_{v1} b_{x1})^2 (a_{x1} d_{v1} - a_{v1} d_{x1}) (a_{x1} d_{v2} - a_{v1} d_{x2}) (a_{v2} c_{x1} - a_{x2} c_{v1}) (b_{v2} c_{x1} - a_{v2} c_{v1}) (a_{v2} c_{x1} - a_{v2} c_{v2}) (a_{v2} c_{x2} - a_{v2} c_{v2}) (a_{v2} c_{x2} - a_{v2} c_{v2}) (a_{v2} c_{v2} - a_{v2} c_{v2}) (a_{v$ $(b_{x2} c_{y1}) + 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x2} b_{y2} - a_{y2} b_{x2}) (d_{x1} d_{y2} - d_{x2} d_{y1}) + 10 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x2} b_{y2} - a_{y2} b_{x2}) (d_{x1} d_{y2} - d_{x2} d_{y1}) + 10 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x2} b_{y2} - a_{y2} b_{x2}) (d_{x1} d_{y2} - d_{x2} d_{y1}) + 10 (a_{x1} c_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x2} c_{y2} - a_{y2} c_{x2}) (d_{x1} d_{y2} - d_{x2} d_{y1}) + 10 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x2} c_{y1} - a_{y1} c_{x1})^2 (a_{x2} c_{y2} - a_{y2} c_{x2}) (d_{x2} c_{y1} - a_{y2} c_{x2}) (d_{x2} c_{y1} - a_{y2} c_{x2}) (d_{x2} c_{y2} - a_{y2} c_{x2}) (d_{x2} c_{y1} - a_{y2} c_{y2}) (d_{x2} c_{y2} - a_{y2} c_{y2})$ $12\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(b_{x1}\,c_{y2}-b_{y1}\,c_{x2}\right)^{2} 24\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(a_{y2}\,d_{x1}-a_{x2}\,d_{y1}\right)\left(b_{x1}\,c_{y2}-b_{y1}\,c_{x2}\right)+$ $12\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)^{2}\left(a_{y2}\,b_{x1}-a_{x2}\,b_{y1}\right)\left(d_{x1}\,d_{y2}-d_{x2}\,d_{y1}\right)+24\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}$ $(a_{y1} b_{x1})^3 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x2} d_{y2} - a_{y2} d_{x2}) (c_{y2} d_{x1} - c_{x2} d_{y1}) + 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x1} c_{y2} - a_{y2} d_{x2}) (a_{y2} d_{y2} - a_{y2} d_{x2}) (a_{y2} d_{y2} - a_{y2} d_{y2}) + 12 (a_{y2} d_{y2} - a_{y1} d_{y2}) (a_{y2} d_{y2} - a_{y2} d_{y2}) (a_{y2} d_{y2} - a_{y2} d_{y2}) + 12 (a_{y2} d_{y2} - a_{y1} d_{y2}) (a_{y2} d_{y2} - a_{y2} d_{y2}) (a_{y2} d_{y2} - a_{y2} d_{y2}) (a_{y2} d_{y2} - a_{y2} d_{y2}) + 12 (a_{y2} d_{y2} - a_{y2} d_{y2}) (a_{y2} d_{y2} - a_{$ $(a_{y1} c_{x2}) (b_{y2} d_{x1} - b_{x2} d_{y1})^2 + 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (b_{x1} c_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (b_{x1} c_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_$ $b_{y1} c_{x2} (b_{y2} d_{x1} - b_{x2} d_{y1}) - 42 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (b_{x1} b_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (b_{x1} b_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1$ $(b_{x2} b_{y1})^2 + 24 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x1} c_{y2} - a_{y1} c_{x2}) (b_{y2} d_{x1} - b_{x2} d_{y1}) (b_{x2} d_{y2} - b_{y2} d_{x2}) - b_{y2} d_{x2}$ $24\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)^{2}\left(b_{x1}\,b_{y2}-b_{x2}\,b_{y1}\right)\left(b_{x2}\,c_{y2}-b_{y2}\,c_{x2}\right)-36\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}$ $(a_{u1} b_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x2} c_{y2} - b_{y2} c_{x2}) + 60 (a_{x1} b_{y1} - a_{y1} d_{x2}) (a_{y1} b_{y2} - a_{y1} d_{y2}) (a_{y$ $(a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} c_{y2} - b_{y2} b_{y1}) (b_{y1} c_{y2} - b_{y2} b_{y1}) (b_{y1} c_{y2} - b_{y2} b_{y1}) (b_{y1} c_{y2} - b_{y2} b_{y1}) (b_{y2} c_{y2} - b_{y2} b_{y2}) (b_{y2} c_{y2} - b_{y2} b_{y1}) (b_{y2} c_{y2} - b_{y2} b_{y2}) (b_{y2} c_{y$ $b_{y1} c_{x2}$) + 24 $(a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x1} d_{y1} - a_{y1} d_{y2})$ $(a_{x1} b_{y1} d_{x1}) + 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (b_{x1} c_{y2} - b_{y1} c_{x2}) (d_{x1} d_{y2} - d_{x2} d_{y1}) +$ $12\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{3}\left(c_{y2}\,d_{x1}-c_{x2}\,d_{y1}\right)^{2}-18\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{3}$ $(a_{u1} b_{u1}) (a_{u1} d_{u1} - a_{u1} d_{u1})^2 (b_{u1} c_{u2} - b_{u1} c_{u2})^2 + 12 (a_{u1} b_{u1} - a_{u1} b_{u1})^2 (a_{u1} c_{u2} - a_{u1} c_{u2}) (a_{u1} d_{u1} - a_{u1} b_{u1})^2$ $a_{u1} d_{x1}$) $(a_{u2} b_{x1} - a_{x2} b_{u1}) (c_{u2} d_{x1} - c_{x2} d_{u1}) - 24 (a_{x1} b_{u1} - a_{u1} b_{x1}) (a_{x1} c_{u2} - a_{u1} c_{x2}) (a_{x1} d_{u1} - a_{u1} b_{x1}) (a_{x2} c_{u2} - a_{u1} c_{x2}) (a_{x2} d_{u1} - a_{u2} d_{u1}) - 24 (a_{x2} b_{u1} - a_{u2} b_{u1}) (a_{x2} c_{u2} - a_{u1} c_{x2}) (a_{x2} d_{u1} - a_{u2} d_{u1}) - 24 (a_{x2} d_{u1} - a_{u2} d_{u1}) (a_{x2} d_{u2} - a_{u2} d_{u1}) (a_{x2} d_{u2} - a_{u2} d_{u1}) - 24 (a_{x2} d_{u1} - a_{u2} d_{u1}) (a_{x2} d_{u2} - a_{u2} d_{u2}) (a_{x2} d_{u2} - a_{u2} d_{u1}) - 24 (a_{x2} d_{u2} - a_{u2} d_{u2}) (a_{x2} d_{u2} - a$ $(a_{y1} d_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) + 4 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (b_{x1} c_{y1} - a_{y2} a_{y1}) (a_{y1} c_{y2} - a_{y1} c_{y2})^2 (a_{y2} b_{y1} c_{y2} - a_{y1} c_{y2})^2 (a_{y1} c_{y1} - a_{y1} c_{y1} c_{y2})^2 (a_{y1} c_{y1} - a_{y1} c_{y1} c_{y2})^2 (a_{y1} c_{y1} - a_{y1} c_{y2})^2 (a_{y1} c_{y1} - a_{y1} c_{y2} c_{y1} c_{y1} c_{y1} c_{y1} c_{y2})^2 (a_{y1} c_{y1} c_{y1} c_{y2} c_{y1} c_{y1} c_{y2} c_{y1} c_{y2} c_{y2} c_{y1} c_{y2} c_{y1} c_{y2} c_{y2} c_{y1} c_{y2} c_$ $(b_{y1} c_{x1})^3 - 4 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} c_{y2} - b_{y1} c_{x2})^2 + 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{y2} c_{x1} - a_{y1} b_{x1})^3 (a_{y2} c_{x1}$ $(a_{x2} c_{y1}) (c_{x1} c_{y2} - c_{x2} c_{y1})^2 - 8 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (a_{x2} b_{y2} - a_{y2} b_{x2}) (b_{x1} d_{y2} - a_{y2} b_{x2}) (b_{x1} d_{y2} - a_{y2} b_{x2}) (a_{x2} b_{y2} - a_{y2} b_{x2}) (a$ $b_{y1} d_{x2}$) $-36 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1}) (c_{x1} d_{y2} - a_{y1} d_{x2})$ $(c_{y1} d_{x2}) + 12 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} d_{y1} - a_{y1} d_{x1}) (b_{x2} d_{y2} - b_{y2} d_{x2}) +$ $12\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{3}\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)\left(a_{x2}\,d_{y2}-a_{y2}\,d_{x2}\right)-16\left(a_{x1}\,b_{y1}-a_{y1}\,d_{x1}\right)\left(a_{x2}\,d_{y2}-a_{y2}\,d_{x2}\right)$ $(a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) - 8 (a_{x1} b_{y1} - a_{y1} b_{x2}) (a_{y1} b_{y1} - a_{y2} b_{y1}) (a_{y2} b_{y1} - a_{y1} b_{y2}) - 8 (a_{y1} b_{y1} - a_{y1} b_{y2}) (a_{y1} b_{y2} - a_{y1} b_{y2}) (a_{y2} b_{y1} - a_{y2} b_{y1}) (a_{y2} b_{y1} - a_{y2} b_{y1}) (a_{y2} b_{y1} - a_{y2} b_{y1}) (a_{y2} b_{y1} - a_{y1} b_{y2}) - 8 (a_{y1} b_{y1} - a_{y1} b_{y2}) (a_{y2} b_{y1} - a_{y1} b_{y2}$ $(a_{x1} b_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (a_{x2} d_{y2} - a_{y2} d_{x2}) (b_{x1} b_{y2} - b_{x2} b_{y1}) + 8 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} b_{x2}) (a_{y1} c_{y1} - a_{y2} c_{y1}) + 8 (a_{y1} c_{y1} - a_{y1} c_{y1}) (a_{y1} c_{y1} - a_{y1} c_{y1}) (a_{y1} c_{y1} - a_{y1} c_{y1}) + 8 (a_{y1} c_{y1} - a_{y1} c_{y1}) (a_{y1} c_{y1} - a_{y1} c_{y$ $a_{y1}\,c_{x1})\,(a_{x1}\,c_{y2}-a_{y1}\,c_{x2})^2\,(b_{x1}\,b_{y2}-b_{x2}\,b_{y1})\,(c_{x1}\,c_{y2}-c_{x2}\,c_{y1})+4\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})^2\,(a_{x1}\,c_{y2}-a_{y2}\,c_{y1})+4\,(a_{x2}\,c_{y1}-a_{y1}\,c_{x2})^2\,(a_{x1}\,c_{y2}-a_{y2}\,c_{y2})+4\,(a_{x2}\,c_{y2}-a_{y2}\,c_{y2})^2\,(a_{x2}\,c_{y2}-a_{y2}\,c_{y2})+4\,(a_{x2}\,c_{y2}-a_{y2}\,c_{y2})^2\,(a_{x2}\,c_{y2}-a_{y2}\,c_{y2})^2$ $a_{u1} c_{x2})^2 \left(b_{x1} b_{y2} - b_{x2} b_{y1}\right) \left(b_{x1} c_{y2} - b_{y1} c_{x2}\right) + 16 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right) \left(a_{x1} b_{y2} - a_{y1} b_{x2}\right) \left(a_{x1} d_{y1} - a_{y1} b_{x2}\right) \left(a_{x1} d_{y1} - a_{y1} d_{y1}\right) \left(a_{y1} d_{y2} - a_{y1} d_{y2}\right) \left(a_{y1} d_{y1} - a_{y1} d_{y1}\right) \left(a_{y1} d_{y1}$ $(a_{u1} d_{x1})^2 (a_{u2} b_{x1} - a_{x2} b_{u1}) (b_{x1} d_{u1} - b_{u1} d_{x1}) - 8 (a_{x1} b_{u1} - a_{u1} b_{x1})^2 (a_{x1} d_{u1} - a_{u1} d_{x1})^2 (a_{u2} d_{x1} - a_{u2} d_{x1})^2$ $a_{x2} d_{v1}$) $(b_{x1} b_{v2} - b_{x2} b_{v1}) + 12 (a_{x1} b_{v1} - a_{v1} b_{x1})^2 (a_{x1} c_{v1} - a_{v1} c_{x1})^2 (a_{v2} d_{x1} - a_{x2} d_{v1}) (b_{x2} d_{v2} - a_{v2} d_{v1}) (b_{v2} d_{v2} - a_{v2} d_{v1}) (a_{v2} d_{v2} - a_{v2} d_{v2}) (a$ $(b_{y2} d_{x2}) + 24 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} d_{x1} - a_{x2} d_{y1}) (b_{y2} c_{x1} - a_{y1} c_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} d_{x1} - a_{x2} d_{y1}) (a_{y2} c_{x1} - a_{y1} c_{x1}) (a_{y2} d_{x2} - a_{y1} d_{x2}) (a_{y2} d_{x1} - a_{x2} d_{y1}) (a_{y2} c_{x1} - a_{y1} c_{x1}) (a_{y2} d_{x2} - a_{y1} d_{x2}) (a_{y2} d_{x1} - a_{y2} d_{y1}) (a_{y2} d_{x1} - a_{y1} d_{x2}) (a_{y2} d_{x1} - a_{y2} d_{y1}) (a_{y2} d_{x1} - a_{y1} d_{x2}) (a_{y2} d_{x1} - a_{y2} d_{y1}) (a_{y2} d_{x2} - a_{y2} d_{y2}) (a_{y$ $b_{x2} c_{y1}$) $-48 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{y2} b_{x1} - a_{y1} c_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{y2} b_{x1} - a_{y1} c_{x1}) (a_{y1} d_{y1} - a_{y1} d_{x1}) (a_{y2} d_{y1} - a_{y1} d_{y1}) (a_{y1} d_{y1} - a_{y1} d_{y1}) (a_{y2} d_{y1} - a_{y1} d_{y1}) (a_{y1} d_{y1} - a_{y1} d_{y1}) (a_{y1} d_{y1} - a_{y1} d_{y1}) (a_{y2} d_{y1} - a_{y1} d_{y1}) (a_{y1} d_{y1} - a_{y1} d_{y1}) (a_{y2} d_{y1} - a_{y1} d_{y1}) (a_{y2} d_{y1} - a_{y1} d_{y1}) (a_{y1} d_{y1} - a_{y1} d_{y1}) (a_{y2} d_{y1} - a_{y1} d_{y1}) (a_{y2} d_{y1} - a_{y1} d_{y1}) (a_{y2} d_{y1} - a_{y1} d_{y1}) (a_{y1} d_{y1} - a_{y1} d_{y1}) (a_{y2} d_{y1} - a_{y1} d_{y1}) (a_{y1} d_{y1} - a_{y1} d_{y1}) (a_{y2} d_{y1} - a_{y1} d_{y1}) (a_{y1} d_{y1} - a_{y1} d_{y1}) (a_{y1}$ $(a_{x2} b_{y1}) (c_{x1} d_{y2} - c_{y1} d_{x2}) + 24 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{y2} b_{x1} - a_{y1} d_{x2})^2$ $a_{x2} b_{u1} (b_{x2} d_{u2} - b_{u2} d_{x2})$

 $c_{6} = 15 \left(a_{x1} \, a_{y2} - a_{x2} \, a_{y1}\right)^{2} \left(a_{x1} \, d_{y1} - a_{y1} \, d_{x1}\right)^{4} - 60 \left(a_{x1} \, a_{y2} - a_{x2} \, a_{y1}\right)^{2} \left(a_{x1} \, d_{y1} - a_{y1} \, d_{x1}\right)^{3} \left(a_{x1} \, d_{y2} - a_{y1} \, d_{x2}\right) - 120 \left(a_{x1} \, a_{y2} - a_{x2} \, a_{y1}\right) \left(a_{x1} \, b_{y2} - a_{y1} \, b_{x2}\right) \left(a_{x1} \, c_{y2} - a_{y1} \, c_{x2}\right) \left(a_{x1} \, d_{y1} - a_{y1} \, d_{x1}\right)^{3} - 20 \left(a_{x1} \, b_{y2} - a_{y1} \, b_{x2}\right)^{3} \left(a_{x1} \, d_{y1} - a_{y1} \, d_{x1}\right)^{3} + 90 \left(a_{x1} \, a_{y2} - a_{x2} \, a_{y1}\right)^{2} \left(a_{x1} \, d_{y1} - a_{y1} \, d_{x1}\right)^{2} \left(a_{x1} \, d_{y2} - a_{y1} \, d_{x2}\right)^{2} + 360 \left(a_{x1} \, a_{y2} - a_{x2} \, a_{y1}\right) \left(a_{x1} \, b_{y2} - a_{y1} \, b_{x2}\right) \left(a_{x1} \, c_{y2} - a_{y1} \, c_{x2}\right) \left(a_{x1} \, d_{y1} - a_{y1} \, d_{x1}\right)^{2} \left(a_{x1} \, d_{y2} - a_{y1} \, d_{x2}\right)^{2} + 360 \left(a_{x1} \, a_{y2} - a_{x2} \, a_{y1}\right) \left(a_{x1} \, b_{y2} - a_{y1} \, b_{x2}\right) \left(a_{x1} \, c_{y2} - a_{y1} \, c_{x2}\right) \left(a_{x1} \, d_{y1} - a_{y1} \, d_{x1}\right)^{2} \left(a_{x1} \, d_{y2} - a_{y1} \, d_{x2}\right)^{2} + 360 \left(a_{x1} \, a_{y2} - a_{x2} \, a_{y1}\right) \left(a_{x1} \, b_{y2} - a_{y1} \, b_{x2}\right) \left(a_{x1} \, c_{y2} - a_{y1} \, c_{x2}\right) \left(a_{x1} \, d_{y1} - a_{y1} \, d_{x1}\right)^{2} \left(a_{x1} \, d_{y2} - a_{y1} \, d_{x2}\right)^{2} + 360 \left(a_{x1} \, a_{y2} - a_{x2} \, a_{y1}\right) \left(a_{x1} \, b_{y2} - a_{y1} \, b_{x2}\right) \left(a_{x1} \, c_{y2} - a_{y1} \, c_{x2}\right) \left(a_{x1} \, d_{y1} - a_{y1} \, d_{x1}\right)^{2} \left(a_{x1} \, d_{y2} - a_{y1} \, d_{x2}\right)^{2} + 360 \left(a_{x1} \, a_{y2} - a_{x2} \, a_{y1}\right) \left(a_{x1} \, b_{y2} - a_{y1} \, b_{x2}\right) \left(a_{x1} \, d_{y2} - a_{y1} \, d_{x1}\right)^{2} \left(a_{x1} \, d_{y1} - a_{y1} \, d_{x1}\right)^{2} \left(a_{x1} \, d_{y2} - a_{y1} \, d_{x1}\right)^{2} \left(a_{x1} \, d_{y2} - a_{y1} \, d_{x2}\right)^{2} \left(a_{x1} \, d_{y2} - a_{y1} \, d_{x2}\right)^$

 $(a_{y1} d_{x2}) + 60 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 + 60 (a_{x1} b_{y2} - a_{y1} b_{x2})^3 (a_{x1} d_{y1} - a_{y1} d_{x2})^3 (a_{x1} d_{y1}$ $(a_{x1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) + 90 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 - (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 - (a_{x1} d_{y2}$ $60\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)^{2}\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)^{3}-360\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y2}-a_{y1}\,d_{x2}\right)^{3}$ $(a_{u1} b_{u2}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 - 120 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} c_{y2} - a_{y1} a_{y2})^2 - 120 (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y1} a_{y2} - a_{y1} a_{y2})^2 - 120 (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y1} a_{y2} - a_{y2} a_{y2}) (a_{y2} a_{y2} - a_{y2} a_{y2}) (a_{y1} a_{y2} - a_{y2} a_{y2}) (a_{y2} a_{y2} - a_{$ $(a_{y1} c_{x2})^3 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) - 60 (a_{x1} b_{y2} - a_{y1} b_{x2})^3 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2})$ $(a_{u1} d_{u2})^2 - 180 (a_{x1} b_{u2} - a_{u1} b_{x2})^2 (a_{x1} c_{u2} - a_{u1} c_{x2})^2 (a_{x1} d_{u1} - a_{u1} d_{x1}) (a_{x1} d_{u2} - a_{u1} d_{x2}) - (a_{x1} d_{u2} - a_{u1} d_{x2})^2 (a_{x1} d_{u2} - a_{u1} d_{x2})$ $30\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)^{4}\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)+15\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)^{2}\left(a_{x1}\,d_{y2}-a_{y1}\,a_{y2}\right)^{2}$ $(a_{y1} d_{x2})^4 + 120 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^3 +$ $60\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)^{3}\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)^{2}+20\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)^{3}\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)^{2}+20\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)^{3}\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)^{2}+20\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)^{3}\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)^{2}+20\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)^{3}\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)^{2}+20\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)^{3}+20\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)^{2}+20\left(a_{x1}\,d_{x2}-a_{y1}\,d_{x2}\right)^{2}+20\left(a_{x1}\,d_{$ $(a_{x1} d_{x2})^3 + 90 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 + 30 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2})^2 + 30 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2})^2 + 30 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2})^2 + 30 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2})^2 + 30 (a_{x1} c_{y2} - a_{y1} c_{y2})^2 + 30 (a_{x1} c_{y2} - a_{y1} c_{y2})$ $(a_{y1} c_{x2})^4 (a_{x1} d_{y2} - a_{y1} d_{x2}) + (a_{x1} c_{y2} - a_{y1} c_{x2})^6 + 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1})^2 (b_{x1} d_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{y2} b_{y1})^2 (a_{y2} b_{y1} - a_{y2} b_{y1} - a_{y2} b_{y1} - a_{y2} b_{y1})^2 (a_{y2} b_{y1} - a_{y2} b_{y2} - a_{y2} b_{y1} - a_{y2} b_{y2} - a_{y2} b_{y$ $(b_{y1} d_{x1})^2 - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1})^2 (b_{x1} d_{y1} - b_{y1} d_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) - b_{y1} d_{x2}$ $24\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{y2}\,b_{x1}-a_{x2}\,b_{y1}\right)\left(b_{x1}\,b_{y2}-b_{x2}\,b_{y1}\right)\left(b_{x1}\,c_{y2}-b_{y1}\,c_{x2}\right)\left(b_{x1}\,d_{y1}-b_{y1}\,d_{x1}\right) 4\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(b_{x1}\,b_{y2}-b_{x2}\,b_{y1}\right)^{3}\left(b_{x1}\,d_{y1}-b_{y1}\,d_{x1}\right)+\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{4}\left(a_{y2}\,c_{x1}-a_{y2}\,c_{y1}\right)^{2}+6\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{y2}\,b_{x1}-a_{x2}\,b_{y1}\right)^{2}\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)^{2}+24\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{y2}\,b_{x1}-a_{x2}\,b_{y1}\right)^{2}+24\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{y2}\,b_{x1}-a_{x2}\,b_{y1}\right)^{2}+24\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}+24\left(a_{x1}\,b_{y1}-a_{y1}\,b_{y1}\right)^{2}+24\left(a_{x1}\,b_{y1}-a_{y1}\,b_{y1}\right)^{2}+24\left(a_{x1}\,b_{y1}-a_{y1}\,b_{y1}\right)^{2}+24\left(a_{x1}\,b_{y1}-a_{y1}\,b_{y1}\right)^{2}+24\left(a_{x1}\,b_{y1}-a_{$ $a_{x2}\,b_{y1})\,(b_{x1}\,b_{y2}-b_{x2}\,b_{y1})\,(b_{x1}\,c_{y2}-b_{y1}\,c_{x2})\,(b_{x1}\,d_{y2}-b_{y1}\,d_{x2})+4\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})^2\,(a_{y2}\,b_{x1}-a_{y2}\,b_{y1})$ $(a_{x2} b_{y1}) (b_{x1} c_{y2} - b_{y1} c_{x2})^3 + 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} b_{y2} - b_{x2} b_{y1})^3 (b_{x1} d_{y2} - b_{y1} d_{x2}) +$ $6\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(b_{x1}\,b_{y2}-b_{x2}\,b_{y1}\right)^{2}\left(b_{x1}\,c_{y2}-b_{y1}\,c_{x2}\right)^{2}+3\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)^{2}\left(a_{x1}\,b_{y1}-a_{y2}\,a_{y2}\right)^{2}$ $(a_{y1} b_{x1})^2 (c_{x1} d_{y1} - c_{y1} d_{x1})^2 + 6 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (b_{x1} d_{y1} - b_{y1} d_{x1})^2 +$ $21\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)^{2}\left(a_{y2}\,c_{x1}-a_{x2}\,c_{y1}\right)^{2}+21\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)^{2}\left(a_{x1}\,b_{y1}-a_{y2}\,a_{y1}\right)^{2}$ $(a_{y1} b_{x1})^2 (c_{x1} d_{y2} - c_{y1} d_{x2})^2 - 18 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x2} d_{y2} - a_{y2} d_{x2})^2 + (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x2} d_{y2} - a_{y2} d_{x2})^2 + (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x2} d_{y2} - a_{y2} d_{x2})^2 + (a_{x2} d_{y2}$ $6\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)^{2}\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{2}\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)^{2}+21\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)^{2}+21\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)^{2}+21\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)^{2}+21\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)^{2}+21\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)^{2}+21\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)^{2}+21\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)^{2}+21\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)^{2}+21\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)^{2}+21\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)^{2}+21\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)^{2}+21\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}+21\left(a_{x1}\,b_{x1}-a_{y1}\,b_{x1}\right)^{2}+21\left(a_{x1}\,b_{x1}-a_{y1}\,b_{x1}\right$ $(a_{y1} d_{x2})^2 (a_{y2} c_{x1} - a_{x2} c_{y1})^2 - 6 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (b_{x1} c_{y1} - b_{y1} c_{x1})^2 +$ $6\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{2}\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)^{2}\left(a_{y2}\,b_{x1}-a_{x2}\,b_{y1}\right)^{2}+21\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)^{2}$ $(a_{y1} b_{x2})^2 (c_{x1} c_{y2} - c_{x2} c_{y1})^2 + 3 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (b_{y2} c_{x1} - b_{x2} c_{y1})^2 +$ $6\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{2}\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)^{2}\left(b_{x1}\,b_{y2}-b_{x2}\,b_{y1}\right)^{2}+\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{y2}\,c_{x1}-a_{y1}\,b_{x1}\right)^{2}$ $(a_{x2} c_{y1})^2 (b_{x1} c_{y1} - b_{y1} c_{x1})^2 + 20 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^3 (a_{y2} b_{x1} - a_{x2} b_{y1})^2 - (a_{y1} b_{y1} c_{y1} - a_{y1} b_{y1})^2 - (a_{y1} b_{y1} c_{y1} - a_{y1} b_{y1} c_{y1})^2 + (a_{y1} b_{y1} c_{y1} - a_{y1} b_{y1})^2 - (a_{y1} b_{y1} c_{y1} - a_{y1} b_{y1} c_{y1})^2 - (a_{y1} b_{y1} c_{y1} - a_{y1} b_{y1} c_{y1})^2 - (a_{y1} b_{y1} c_{y1} - a_{y1} b_{y1} c_{y1})^2 - (a_{y1} b_{y1} c_{y1} c_$ $24\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)^{3}\left(a_{y2}\,c_{x1}-a_{x2}\,c_{y1}\right)-20\left(a_{x1}\,a_{y2}-a_{y2}\,a_{y1}\right)$ $(a_{x2} a_{y1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^3 (b_{x1} c_{y1} - b_{y1} c_{x1}) - 18 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x1})^2 (a_{x1} d_{y1} - a_$ $(a_{u1} d_{x2}) (a_{u2} b_{x1} - a_{x2} b_{y1})^2 + 144 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} a_{y1})^2 + 144 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} a_{y1})^2 + 144 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} a_{y1})^2 + 144 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{y1})^2 + 144 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{y1})^2 + 144 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{y1})^2 + 144 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{y1})^2 + 144 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{y1} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_$ $(a_{y1} d_{x2}) (a_{y2} c_{x1} - a_{x2} c_{y1}) + 60 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} c_{y1} - a_{y1} d_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x2}) (a_$ $b_{y1} c_{x1} + 18 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (a_{y2} b_{x1} - a_{x2} b_{y1})^2 - a_{y1} d_{y2} + a_{y2} d_{y1} d_{y2} + a_{y1} d_{y2} d_{y2} d_{y1} d_{y2} + a_{y2} d_{y2} d_$ $144 \left(a_{x1} \, a_{y2} - a_{x2} \, a_{y1}\right) \left(a_{x1} \, b_{y1} - a_{y1} \, b_{x1}\right) \left(a_{x1} \, d_{y1} - a_{y1} \, d_{x1}\right) \left(a_{x1} \, d_{y2} - a_{y1} \, d_{x2}\right)^{2} \left(a_{y2} \, c_{x1} - a_{y1} \, d_{x2}\right)^{2}$ $(a_{x2} c_{y1}) - 60 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (b_{x1} c_{y1} - b_{y1} c_{x1}) - b_{y1} c_{y1} - b_{y1} c_{y1} - b_{y1} c_{y1} - b_{y1} c_{y1})$ $20\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)^{3}\left(a_{y2}\,b_{x1}-a_{x2}\,b_{y1}\right)^{2}+24\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y2}\,b_{y1}\right)^{2}+24\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y2}\,b_{y1}\right)^{2}+24\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y2}\,b_{y1}\right)^{2}+24\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y2}\,b_{y1}\right)^{2}+24\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y2}\,b_{y1}\right)^{2}+24\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y2}\,b_{y1}\right)^{2}+24\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y2}\,b_{y1}\right)^{2}+24\left(a_{x1}\,a_{y2}-a_{y2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y2}\,b_{y1}\right)^{2}+24\left(a_{x1}\,a_{y2}-a_{y2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y2}\,b_{y1}\right)^{2}+24\left(a_{x1}\,a_{y2}-a_{y2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y2}\,b_{y1}\right)^{2}+24\left(a_{x1}\,a_{y2}-a_{y2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y2}\,b_{y1}\right)^{2}+24\left(a_{x1}\,a_{y2}-a_{y2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y2}\,b_{y1}\right)^{2}+24\left(a_{x1}\,a_{y2}-a_{y2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y2}\,b_{y1}\right)^{2}+24\left(a_{x1}\,a_{y2}-a_{y2}\,a_{y2}\right)^{2}+24\left(a_{x1}\,a_{y2}-a_{y2}\,a_{y2}\right)^{2}+24\left(a_{x1}\,a_{y2}-a_{y2}\,a_{y2}\right)^{2}+24\left(a_{x1}\,a_{y2}-a_{y2}\,a_{y2}\right)^{2}+24\left(a_{x1}\,a_{y2}-a_{y2}\,a_{y2}\right)^{2}+24\left(a_{x1}\,a_{y2}-a_{y2}\,a_{y2}\right)^{2}+24\left(a_{x1}\,a_{y2}-a_{y2}\,a_{y2}\right)^{2}+24\left(a_{x1}\,a_{y2}$ $(a_{y1} b_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2})^3 (a_{y2} c_{x1} - a_{x2} c_{y1}) + 20 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^3 (b_{x1} c_{y1} - a_{y1} d_{x2})^3 (a_{y2} c_{y1} - a_{y1} d_{y2})^3 (a_{y2} c_{y1} - a_$ $b_{y1} c_{x1}) + 12 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1}) (c_{x1} d_{y1} - c_{y1} d_{x1}) - a_{y1} d_{x1} + a_$ $6\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)^{2}\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{2}\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(c_{x1}\,d_{y1}-c_{y1}\,d_{x1}\right)-12\left(a_{x1}\,a_{y2}-a_{y2}\,a_{y1}\,d_{x2}\right)$ $a_{x2} a_{y1}$) $(a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (c_{x1} d_{y1} - c_{y1} d_{x1}) - 2 (a_{x1} b_{y2} - a_{y1} c_{x2}) (c_{x2} d_{y1} - c_{y1} d_{x2}) - 2 (a_{x2} d_{y2} - a_{y1} d_{x2}) - 2 (a_{x2} d_{y2} - a_{y2} d$ $(a_{y1} b_{x2})^3 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (c_{x1} d_{y1} - c_{y1} d_{x1}) + 12 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{y2} b_{x1} - a_{y1} c_{x1})^2 (a_{y2} b_{x1} - a_{y1} c_{x1})^2 (a_{y1} c_{y1} - a_{y1} c_{x1})^2 (a_{y2} b_{x1} - a_{y1} c_{x1})^2 (a_{y2} b_{x1} - a_{y1} c_{x1})^2 (a_{y2} b_{x1} - a_{y1} c_{x1})^2 (a_{y1} c_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{y2} b_{x1} - a_{y1} c_{x1})^2 (a_{y1} c_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{y2} c_{x1} c_{y1} c_{y1} c_{x1} c_{y$ $(a_{x2} b_{y1})^2 (c_{x1} d_{y1} - c_{y1} d_{x1}) - 12 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{y2} c_{x1} - a_{y1} c_{x1})^2 (a_{y2} c_{x1} - a_{y1} c_{x1})^2 (a_{y1} c_{y1} - a_{y1} c_{x1})^2 (a_{y2} c_{x1} - a_{y1} c_{x1})^2 (a_{y1} c_{y1} - a_{y1} c_{x1})^2 (a_{y2} c_{x1} - a_{y1} c_{x1})^2 (a_{y1} c_{y1} - a_{y1} c_{x1})^2 (a_{y2} c_{x1} - a_{y1} c_{x1})^2 (a_{y1} c_{y1} - a_{y1} c_{x1})^2 (a_{y2} c_{x1} - a_{y$

 $a_{x2} c_{y1}$) $(c_{x1} d_{y1} - c_{y1} d_{x1}) - 36 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} a_{y1}) (a_{x1} a_{y2} - a_{y1} a_{y1}) (a_{x1$ $(a_{y1} c_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1})^2 - 20 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^3 (b_{x1} d_{y1} - b_{y1} d_{x1})^2 +$ $12\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{y2}\,c_{x1}-a_{x2}\,c_{y1}\right)\left(b_{x1}\,d_{y1}-b_{y1}\,d_{x1}\right)^{2}+72\left(a_{x1}\,a_{y2}-a_{y2}\,a_{y1}\right)^{2}+72\left(a_{x1$ $(a_{x1} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1}) (b_{x1} d_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} c_{y$ $(b_{y1} d_{x2}) + 12 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^3 (b_{x1} d_{y1} - b_{y1} d_{x1}) (b_{x1} d_{y2} - b_{u1} d_{x2}) +$ $24\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{y2}\,c_{x1}-a_{x2}\,c_{y1}\right)\left(b_{x1}\,d_{y1}-b_{y1}\,d_{x1}\right)\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)+$ $12\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)^{2}\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{2}\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(c_{x1}\,d_{y2}-c_{y1}\,d_{x2}\right)+12\left(a_{x1}\,a_{y2}-a_{y1}\,d_{x2}\right)^{2}\left(a_{x1}\,a_{y2}-a_{y1}\,d_{x2}\right)+12\left(a_{x1}\,a_{y2}-a_{y1}\,d_{x2}\right)^{2}\left(a_{x1}\,a_{y2}-a_{y1}\,d_{x2}\right)+12\left(a_{x1}\,a_{y2}-a_{y1}\,d_{x2}\right)^{2}\left(a_{x1}\,a_{y2}-a_{y1}\,d_{x2}\right)+12\left(a_{x1}\,a_{y2}-a_{y1}\,d_{x2}\right)^{2}\left(a_{x1}\,a_{y2}-a_{y1}\,d_{x2}\right)+12\left(a_{x1}\,a_{y2}-a_{y1}\,d_{x2}\right)^{2}\left(a_{x1}\,a_{y2}-a_{y1}\,d_{x2}\right)+12\left(a_{x1}\,a_{y2}-a_{y1}\,d_{x2}\right)^{2}\left(a_{x1}\,a_{y2}-a_{y1}\,d_{x2}\right)+12\left(a_{x1}\,a_{y2}-a_{y1}\,d_{x2}\right)^{2}\left(a_{x1}\,a_{y2}-a_{y1}\,d_{x2}\right)+12\left(a_{x1}\,a_{y2}-a_{y1}\,d_{x2}\right)^{2}\left(a_{x1}\,a_{y2}-a_{y1}\,d_{x2}\right)+12\left(a_{x1}\,a_{y2}-a_{y1}\,d_{x2}\right)^{2}\left(a_{x1}\,a_{y2}-a_{y1}\,d_{x2}\right)+12\left(a_{x1}\,a_{y2}-a_{y1}\,d_{x2}\right)^{2}\left(a_{x1}\,a_{y2}-a_{y1}\,d_{x2}\right)+12\left(a_{x1}\,a_{y2}-a_{y1}\,d_{x2}\right)^{2}\left(a_{x1}\,a_{y2}-a_{y1}\,d_{x2}\right)+12\left(a_{x1}\,a_{y2}-a_{y1}\,d_{x2}\right)^{2}\left(a_{x1}\,a_{y2}-a_{y1}\,d_{x2}\right)+12\left(a_{x1}\,a_{y2}-a_{y1}\,d_{x2}\right)^{2}\left(a_{x1}\,a_{y2}-a_{y1}\,d_{x2}\right)+12\left(a_{x1}\,a_{y2}-a_{y1}\,d_{x2}\right)^{2}\left(a_{x1}\,a_{y2}-a_{y1}\,d_{x2}\right)+12\left(a_{x1}\,a_{y2}-a_{y1}\,d_{x2}\right)^{2}\left(a_{x1}\,a_{y2}-a_{y1}\,d_{x2}\right)+12\left(a_{x1}\,a_{y2}-a_{y1}\,d_{x2}\right)^{2}\left(a_{x1}\,a_{y2}-a_{y1}\,d_{x2}\right)+12\left(a_{x1}\,a_{y2}-a_{y1}\,d_{x2}\right)^{2}\left(a_{x1}\,a_{y2}-a_{y1}\,d_{x2}\right)+12\left(a_{x1}\,a_{y2}-a_{y1}\,d_{x2}\right)^{2}\left(a_{x1}\,a_{y2}-a_{y1}\,d_{x2}\right)+12\left(a_{x1}\,a_{y2}-a_{y1}\,d_{x2}\right)^{2}\left(a_{x1}\,a_{y2}-a_{y1}\,d_{x2}\right)+12\left(a_{x1}\,a_{y2}-a_{y1}\,d_{x2}\right)^{2}\left(a_{x1}\,a_{y2}-a_{y1}\,d_{x2}\right)+12\left(a_{x1}\,a_{y2}-a_{y1}\,d_{x2}\right)^{2}\left(a_{x1}\,a_{y2}-a_{y1}\,d_{x2}\right)+12\left(a_{x1}\,a_{y2}-a_{y1}\,d_{x2}\right)^{2}\left(a_{x1}\,a_{y2}-a_{y1}\,d_{x2}\right)+12\left(a_{x1}\,a_{y2}-a_{y1}\,d_{x2}\right)^{2}\left(a_{x1}\,a_{y2}-a_{y1}\,d_{x2}\right)+12\left(a_{x1}\,a_{y2}-a_{y1}\,d_{x2}\right)^{2}\left(a_{x1}\,a_{y2}-a_{y1}\,d_{x2}\right)^{2}\left(a_{x1}\,a_{y2}-a_{y1}\,d_{x2}\right)+12\left(a_{x1}\,a_{y2}-a_{y1}\,d_{x2}\right)^{2}\left(a_{x1}\,a_{y2}-a_{y1}\,d_{x2}\right)+12\left(a_{x1}\,a_{y2}-a_{y1}\,d_{x2}\right)^{2}\left(a_{x1}\,a_{y2}-a_{y1}\,d_{x2}\right)^{2}\left(a_{x1}\,a_{y2}-a_{y1}\,d_{x2}\right)^{2}\left(a_{x1}\,a_{y2}-a_{y1}\,d_{x2}\right)^{2}\left(a_{x1$ $(a_{x2} a_{y1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (c_{x1} d_{y2} - c_{y1} d_{x2}) + 2 (a_{x1} b_{y2} - a_{y1} c_{x2}) (a_{x2} a_{y1} c_{y2} - a_{y1} c_{x2}) + 2 (a_{x2} a_{y1} c_{y2} - a_{y1} c_{y2}) + 2 (a_{x2} a_{y1} c_{y2} c_{y2} - a_{y1} c_{y2}) + 2 (a_{x2$ $(a_{y1} b_{x2})^3 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (c_{x1} d_{y2} - c_{y1} d_{x2}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{y2} b_{x1} - a_$ $(a_{x2} b_{y1})^2 (c_{x1} d_{y2} - c_{y1} d_{x2}) + 12 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{y2} c_{x1} - a_{y$ $a_{x2} c_{y1}$) $(c_{x1} d_{y2} - c_{y1} d_{x2}) - 36 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} a_{y2}) (a_{x1$ $(a_{y1} c_{x2}) (b_{x1} d_{y2} - b_{y1} d_{x2})^2 - 20 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^3 (b_{x1} d_{y2} - b_{y1} d_{x2})^2 +$ $12\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{y2}\,c_{x1}-a_{x2}\,c_{y1}\right)\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)^{2}-36\left(a_{x1}\,a_{y2}-a_{y2}\,a_{y1}\right)^{2}$ $(a_{x1}\,a_{y1})^2\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})\,(a_{x1}\,d_{y1}-a_{y1}\,d_{x1})^2\,(c_{x1}\,d_{y1}-c_{y1}\,d_{x1}) + 288\,(a_{x1}\,a_{y2}-a_{x2}\,a_{y1})\,(a_{x1}\,b_{y1}-a_{y1}\,a_{x1})^2\,(a_{y1}\,a_{y1}-a_{y1}\,a_{y1})^2\,(a_{y1}\,a_$ $a_{y1} b_{x1}$) $(a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (c_{x1} d_{y1} - c_{y1} d_{x1}) + 48 (a_{x1} b_{y1} - a_{y1} d_{x1}) (a_{y1} c_{y1} d_{y1} - a_{y1} d_{y1}) + 48 (a_{y1} c_{y1} d_{y1} - a_{y1} d_{y1}) (a_{y1} c_{y1} d_{y1} - a_{y1} d_{y1}) + 48 (a_{y1} c_{y1} d_{y1} - a_{y1} d_{y1}) (a_{y1} c_{y1} d_{y1} - a_{y1} d_{y1}) + 48 (a_{y1} c_{y1} d_{y1} - a_{y1} d_{y1}) (a_{y1} c_{y1} d_{y1} - a_{y1} d_{y1} d_{y1}) (a_{y1} c_{y1} d_{y1} d_{y1} - a_{y1} d_{y1} d_{y1}) (a_{y1} c_{y1} d_{y1} d_{y1} - a_{y1} d_{y1} d_{y1}) (a_{y1} c_{y1} d_{y1} d_{y1} d_{y1} d_{y1} d_{y1}) (a_{y1} c_{y1} d_{y1} d_{y1} d_{y1} d_{y1} d_{y1} d_{y1} d_{y1} d_{y1}) (a_{y1} c_{y1} d_{y1} d_{y$ $(a_{x1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^3 (a_{x1} d_{y1} - a_{y1} d_{x1}) (c_{x1} d_{y1} - c_{y1} d_{x1}) + 12 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} a_{x1}) (a_{x1} a_{y1} - a_{y1} a_{x1}) + 12 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{x1}) (a_{x1} a_{y1} - a_{y1} a_{x1}) + 12 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{x1}) (a_{x1} a_{y1} - a_{y1} a_{x1}) + 12 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{x1}) (a_{x1} a_{y1} - a_{y1} a_{x1}) + 12 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{x1}) (a_{x1} a_{y1}$ $a_{y1}b_{x1}$) $(a_{x1}c_{y1}-a_{y1}c_{x1})(a_{x1}d_{y1}-a_{y1}d_{x1})(a_{y2}c_{x1}-a_{x2}c_{y1})(b_{x1}d_{y1}-b_{y1}d_{x1})+120(a_{x1}a_{y2}-a_{y1}c_{y1})(a_{x1}c_{y1}-a_{y1}c_{y1})(a_{x1}c_{y1}-a_{y1}c_{y1})$ $(a_{x2} a_{y1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (b_{x1} c_{y1} - b_{y1} c_{x1}) + 20 (a_{x1} b_{y2} - a_{y1} c_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x2} c_{y1} - a_{y1} c_{x2}) (a_{x2} c_{y1} - a_{y1} c_{x2}) (a_{x2} c_{y2} - a_{y1} c_{x2}) (a_{x2} c_{y2} - a_{y1} c_{x2}) (a_{x2} c_{y1} - a_{y1} c_{x2}) (a_{x2} c_{y2} - a_{y2} c_{y2}) (a_{x$ $(a_{u1} b_{u2})^3 (a_{x1} d_{u1} - a_{u1} d_{x1})^2 (b_{x1} c_{u1} - b_{u1} c_{x1}) - 432 (a_{x1} a_{u2} - a_{x2} a_{u1}) (a_{x1} b_{u1} - a_{u1} b_{x1}) (a_{x1} b_{u2} - a_{u2} a_{u1}) (a_{x1} b_{u2} - a_{u2} a_{u2}) (a$ $(a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (c_{x1} d_{y2} - c_{y1} d_{x2}) - 56 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) - 66 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) - 66 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) - 66 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) - 66 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) - 66 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) - 66 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) - 66 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) - 66 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) - 66 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) - 66 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) - 66 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) - 66 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) - 66 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) - 66 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) - 66 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) - 66 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) - 66 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) - 66 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) - 66 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1}) - 66 (a_{x1} d_{x1} d_{x1}) (a_{x1} d_{x1} - a_{y1} d_{x1}) - 66 (a_{x1} d_{x1} d_{x1}) - 66 (a_$ $(a_{y1} b_{x2})^3 (a_{x1} d_{y1} - a_{y1} d_{x1}) (c_{x1} d_{y2} - c_{y1} d_{x2}) - 84 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x2}) - 84 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x2}) - 84 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x2}) - 84 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{x1}) (a_{x1} a_{y2} - a_{y1} a_{x2}) - 84 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{x1}) (a_{x1} a_{y2} - a_{y1} a_{x2}) - 84 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{x1}) (a_{x1} a_{y2} - a_{y1} a_{x2}) - 84 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{x1}) (a_{x1} a_{y2} - a_{y1} a_{x2}) - 84 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{x1}) (a_{x1} a_{y2} - a_{y1} a_{x2}) - 84 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{x1}) (a_{x1} a_{y1} - a_{y1} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{y1}) - 84 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{y1} a_{y1} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{y1} a_{y1} a_{y1} a_{y1} a_{y1} a_{y1} a_{y1}) (a_{x1} a_{y1} a_{y1}$ $a_{v1} d_{x1} (a_{v2} c_{x1} - a_{x2} c_{v1}) (c_{x1} d_{v2} - c_{v1} d_{x2}) + 42 (a_{x1} a_{v2} - a_{x2} a_{v1}) (a_{x1} b_{v1} - a_{v1} b_{x1})^2 (a_{x1} c_{v1} - a_{v1} b_{v1})^2 (a_{x2} c_{v1} - a_{v2} c_{v1}) (a_{v2} c_{v2} - a_{v2} c_{v1}) (a_{v2} c_{v2} - a_{v2} c_{v2}) (a_{v$ $(a_{y1} c_{x1}) (a_{y2} c_{x1} - a_{x2} c_{y1}) (d_{x1} d_{y2} - d_{x2} d_{y1}) + 36 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y2} - a_{y1} a_{y1})^2 (a_{y1} a_{y1} - a_{y1} a_{y1}) + 36 (a_{y1} a_{y2} - a_{y1} a_{y1} a_{y1} - a_{y1} a_{y$ $(a_{y1} d_{x2})^2 (c_{x1} d_{y2} - c_{y1} d_{x2}) + 288 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} b_{x2}) (a_{$ $(a_{x1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (c_{x1} d_{y2} - c_{y1} d_{x2}) + 48 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^3 (a_{x1} d_{y2} - a_{y1} d_{x2})^3$ $a_{y1} d_{x2}$) $(c_{x1} d_{y2} - c_{y1} d_{x2}) + 120 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} c_{x2}) (a_{x2} d_{y2} - a_{y1} d_{x2}) (a_{x2} d_{y2} - a_{y2} d_{y2}) (a_{x$ $(a_{y1} d_{x2})^2 (b_{x1} c_{y1} - b_{y1} c_{x1}) + 20 (a_{x1} b_{y2} - a_{y1} b_{x2})^3 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (b_{x1} c_{y1} - b_{y1} c_{x1}) - (a_{x1} b_{y2} - a_{y1} b_{x2})^3 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (b_{x1} c_{y1} - b_{y1} c_{x1}) - (a_{x1} b_{y2} - a_{y1} b_{x2})^3 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (b_{x1} c_{y1} - b_{y1} c_{x1}) - (a_{x1} b_{y2} - a_{y1} b_{x2})^3 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (b_{x1} c_{y1} - b_{y1} c_{x1}) - (a_{x1} b_{y2} - a_{y1} b_{x2})^3 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (b_{x1} c_{y1} - b_{y1} c_{x1}) - (a_{x1} b_{y2} - a_{y1} b_{x2})^3 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (b_{x1} c_{y1} - b_{y1} c_{x1}) - (a_{x1} b_{y2} - a_{y1} d_{x2})^2 (b_{x1} c_{y1} - b_{y1} c_{x1}) - (a_{x1} b_{y2} - a_{y1} d_{x2})^2 (b_{x1} c_{y1} - b_{y1} c_{x1}) - (a_{x1} b_{y2} - a_{y1} d_{x2})^2 (b_{x1} c_{y1} - b_{y1} c_{x1}) - (a_{x1} b_{y2} - a_{y1} d_{x2})^2 (b_{x1} c_{y1} - b_{y1} c_{x1}) - (a_{x1} b_{y2} - a_{y1} d_{x2})^2 (b_{x1} c_{y1} - b_{y1} c_{x1}) - (a_{x1} b_{y1} - a_{y1} d_{x2})^2 (b_{x1} c_{y1} - b_{y1} c_{x1}) - (a_{x1} b_{y1} - a_{y1} d_{x2})^2 (b_{x1} c_{y1} - b_{y1} c_{x1}) - (a_{x1} b_{y1} - a_{y1} d_{x2})^2 (b_{x1} c_{y1} -$ $6(a_{x1}b_{y1} - a_{y1}b_{x1})^2(a_{y2}b_{x1} - a_{x2}b_{y1})^2(b_{x1}c_{y1} - b_{y1}c_{x1})(c_{x1}d_{y1} - c_{y1}d_{x1}) + 6(a_{x1}b_{y1} - a_{y1}b_{x1})^2(a_{y2}b_{x1} - a_{x2}b_{y1})^2(a_{y1}b_{y1} - a_{y1}b_{x1})(c_{x1}d_{y1} - a_{y1}d_{x1}) + 6(a_{x1}b_{y1} - a_{y1}b_{x1})^2(a_{y2}b_{x1} - a_{x2}b_{y1})^2(a_{y1}b_{x1} - a_{y1}b_{x1})(c_{x1}d_{y1} - a_{y1}d_{x1}) + 6(a_{x1}b_{y1} - a_{y1}b_{x1})^2(a_{y2}b_{x1} - a_{y1}b_{x1})^2(a_{y2}b_{x1} - a_{y1}b_{x1})^2(a_{y1}b_{x1} - a_{y1}b_{x1}$ $(a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1})^2 (b_{x1} c_{y1} - b_{y1} c_{x1}) (c_{x1} d_{y2} - c_{y1} d_{x2}) - 32 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} a_{y2}) - 32 (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y2} a_{y2} - a_{y2} a_{y1}) (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y2} a_{y2} - a_{y2} a_{y2}) (a_{y2} a_{y2} - a_{y2} a_{y2}$ $(a_{u1} b_{u1}) (a_{u1} c_{u2} - a_{u1} c_{u2})^3 (c_{u1} d_{u1} - c_{u1} d_{u1}) - 48 (a_{u1} b_{u1} - a_{u1} b_{u1}) (a_{u1} b_{u2} - a_{u1} b_{u2})^2 (a_{u1} c_{u2} - a_{u1} b_{u2})^2 (a_{u1} c_{u2} - a_{u1} b_{u2})^2 (a_{u2} c_{u2} - a_{u1} b_{u2})^2 (a_{u2} c_{u2} - a_{u1} b_{u2})^2 (a_{u2} c_{u2} - a_{u2} b_{u2} - a_{u2} b_{u2})^2 (a_{u2} c_{u2} - a_{u2} b_{u2} - a_{u2} b_{u2})^2 (a_{u2} c_{u2} - a_{u2} b_{u2} - a_{u2} b_{u2}$ $(a_{y1} c_{x2})^2 (c_{x1} d_{y1} - c_{y1} d_{x1}) + 24 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} b_{y2} - a_{y1} c_{x2})$ $b_{x2}\,b_{y1})\,(c_{x1}\,d_{y1}-c_{y1}\,d_{x1})-84\,(a_{x1}\,a_{y2}-a_{x2}\,a_{y1})\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})^2\,(a_{x1}\,c_{y2}-a_{y1}\,c_{x2})\,(b_{y2}\,c_{x1}-a_{y1}\,c_{y2})$ $b_{x2} c_{y1} (c_{x1} d_{y1} - c_{y1} d_{x1}) - 16 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (b_{x1} d_{y1} - a_{y1} c_{x2})^3 (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (a_{x1} c_{y1} - a_{y1} c_{x2})^3 (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (a_{x1} c_{y1} - a_{y1} c$ $(b_{y1} d_{x1}) - 24 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (b_{x1} d_{y1} - b_{y1} d_{x1}) - (b_{y1} d_{y1} - a_{y1} c_{y1}) (a_{y1} c_{y1} - a_{y1} c_{y2})^2 (a_{y1} c_{y1} - a_{y1} c_{y1}) - (a_{y1} c_{y1} c_{y1} - a_{y1} c_{y1}) (a_{y1} c_{y1} - a_{y1} c_{y1}) - (a_{y1} c_{y1} c_{y1} - a_{y1} c_{y1}) (a_{y1} c_{y1} - a_{y1} c_{y1}) (a_{y1} c_{y1} - a_{y1} c_{y1}) - (a_{y1} c_{y1} c_{y1} - a_{y1} c_{y1}) (a_{y1} c_{y1} - a_{y1} c_{y1} c_{y1}) (a_{y1} c_{y1} - a_{y1} c_{y1} c_{y1}) (a_{y1} c_{y1} - a_{y1} c_{y1} c_{y1}) (a_{y1} c_{y1} c_{y1} - a_{y1} c_{y1} c_{y1}) (a_{y1} c_{y1} c_{y1}$ $12\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)\left(a_{y2}\,c_{x1}-a_{x2}\,c_{y1}\right)\left(c_{x1}\,c_{y2}-c_{x2}\,c_{y1}\right)+$ $32\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)^{3}\left(c_{x1}\,d_{y2}-c_{y1}\,d_{x2}\right)+108\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)^{3}$ $(a_{x1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (c_{x1} d_{y2} - c_{y1} d_{x2}) - 24 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{y1} c_{y2} - a_{y1} c_{y2})^2 - 24 (a_{y1} c_{y2} - a_{y1$ $a_{y1} c_{x2}$) $(a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} b_{y2} - b_{x2} b_{y1}) (c_{x1} d_{y2} - c_{y1} d_{x2}) + 84 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y2} a_{y1}) (a_{y1} b_{y2} - a_{y2} a_{y1}) (a_{y1} b_{y2} - a_{y2} a_{y1}) (a_{y2} b_{y1} - a_{y2} a_{y1}) (a_{y1} b_{y2} - a_{y2} a_{y1}) (a_{y2} b_{y1} - a_{y2} a_{y1}) (a_{y1} b_{y2} - a_{y2} a_{y1}) (a_{y2} b_{y1} - a_{y2} a_{y1}) (a_{y2} b_{y2} - a_{y2} a_{y1}) (a_{y2} b_{y2} - a_{y2} a_{y2}) (a_{y2$ $(a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (b_{y2} c_{x1} - b_{x2} c_{y1}) (c_{x1} d_{y2} - c_{y1} d_{x2}) + 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} c_{x2}) (a_{y2} c_{y1} c_{y2} - a_{y1} c_{y2}) (a_{y2} c_{y1} c_{y2} - a_{y1} c_{y2}) + 12 (a_{y2} c_{y1} c_{y2} c_{y1} c_{y2} - a_{y1} c_{y2}) (a_{y2} c_{y1} c_{y2} c_{y1} c_{y2} - a_{y1} c_{y2}) (a_{y2} c_{y1} c_{y2} c_{y1} c_{y2} c_{y1} c_{y2} c_{y1} c_{y2} c_{y1} c_{y2}) (a_{y2} c_{y1} c_{y2} c_{y2} c_{y1} c_{y2} c_{y1} c_{y2} c_{y1} c_{y2} c_{y1} c_{y2} c_{y1} c_{y2} c_{y2} c_{y2} c_{y1} c_{y2} c_{$ $a_{y1} b_{x2}$) $(a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} c_{x1} - a_{x2} c_{y1}) (c_{x1} c_{y2} - c_{x2} c_{y1}) - 96 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y2} - a_{y2} a_{y1}) (a_{y2} c_{y1} - a_{y2} a_{y2}) (a_{y2} c_{y2} - a_{y2} a_{y2}) (a_{y2$ $(a_{x1} b_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} c_{y1} - b_{y1} c_{x1}) + 24 (a_{x1} b_{y2} - a_{y1} d_{x2}) (a_{x2} c_{y2} - a_{y1} c_{x2}) (a_{x2}$

 $(a_{y1} b_{x2})^2 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} c_{y1} - b_{y1} c_{x1}) + 36 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} a_{x2}) (a_{y1} a_{y1} - a_{y2} a_{y1}) (a_{y1} a_{y2} - a_{y1} a_{y2}) (a_{y1} a_{y2} - a_{y1} a_{y2}) (a_{y1} a_{y1} - a_{y1} a_{y2}) (a_{y1} a_{y2} - a_{y1} a_{y2}) (a_{y1} a_{y1} - a_{y1} a_{y2}) (a_{y1} a_{y2} - a_{y1} a_{y2}) (a_$ $a_{y1}\,b_{x1})\,(a_{x1}\,c_{y2}-a_{y1}\,c_{x2})^2\,(b_{x1}\,c_{y2}-b_{y1}\,c_{x2})\,(b_{x1}\,d_{y1}-b_{y1}\,d_{x1}) + 36\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})\,(a_{x1}\,b_{y2}-a_{y1}\,b_{x2})^2\,(a_{x1}\,b_{y2}-a_{y1}\,b_{y2})^2\,(a_{x1}\,b_{y2}$ $(a_{y1} b_{x2})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1}) - 36 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} a_{x2}) (a_{y1} a_{y1} - a_{y2} a_{y1}) (a_{y1} a_{y1} - a_{y1} a_{y1}) (a_{y$ $(a_{u1} b_{u1}) (a_{u1} c_{u2} - a_{u1} c_{u2})^2 (b_{u1} c_{u2} - b_{u1} c_{u2}) (b_{u1} d_{u2} - b_{u1} d_{u2}) - 18 (a_{u1} b_{u1} - a_{u1} b_{u1}) (a_{u1} b_{u2} - b_{u1} d_{u2})$ $(a_{y1} b_{x2})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x1} d_{y2} - b_{y1} d_{x2}) + 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{y1} b_{x2})^2 (a_{y2} b_{x1} - a_{y2} b_{x1} - a_{y2} b_{x2})^2 (a_{y2} b_{x2} - a_{y2} b_{x2})^2 (a_{y2} b_{x2} - a_{y2} b_{x2})^2 (a_{y2} b_{x2} - a_{y2} b_{x2} - a_{y2} b_{x2} - a_{y2} b_{x2})^2 (a_{y2} b_{x2} - a_{y2} b_{x2} - a_{y2$ $(a_{x2} b_{v1}) (b_{x1} b_{v2} - b_{x2} b_{v1}) (b_{x1} c_{v1} - b_{v1} c_{x1}) (c_{x1} c_{v2} - c_{x2} c_{v1}) - 24 (a_{x1} a_{v2} - a_{x2} a_{v1}) (a_{x1} b_{v1} - a_{v2} a_{v1}) (a_{x1} b_{v2} - a_{v2} a_{v2}) (a_{x2} a_{v2} - a_{v2} a_{v2}) (a_{x2} a_{v2} - a_{v2} a_{v2}) (a_{x2}$ $(a_{y1} b_{x1})^2 (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{y2} c_{x1} - b_{x2} c_{y1}) (c_{x1} c_{y2} - c_{x2} c_{y1}) + 6 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} c_{y1} - a_{y1} c_{y1}) (a_{y1} c_{y1} - a_{y2} c_{y1}) + 6 (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y1} c_{y1} - a_{y2} a_{y1}) (a_{y2} c_{y1} - a_{y2} a_{y2}) (a_{y2} c_{y1} - a_{y2} a_{y2}) (a_{y2} c_{y2} - a_{y2} a_{y2}) (a$ $(a_{y1} c_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (c_{x1} c_{y2} - c_{x2} c_{y1}) + 12 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2})^2$ $(a_{y1} c_{x2}) (c_{x1} c_{y2} - c_{x2} c_{y1}) + 12 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (b_{y2} c_{x1} - a_{y1} c_{x2})^2 (b_{y2} c_{x1} - a_{y1}$ $(c_{x1} c_{y2} - c_{x2} c_{y1}) + 24 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} d_{y1} - a_{y1} b_{x2})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} d_{y1} - a_{y1} b_{x2}) (a_{x1} b_{y2} - a_$ $b_{y1} d_{x1} (b_{y2} c_{x1} - b_{x2} c_{y1}) - 6 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1}) (b_{y2} c_{x1} - a_{y1} d_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{y1} d_{y1} - a_{y1} d_{x1}) (a_{y2} c_{x1} - a_{y1} d_{x1})^2 (a_{y1} d_{y1} - a_{y1} d_{y1})^2 (a_{y1} d_{y1} - a_{y1} d_{y1}) (a_{y2} d_{y1} - a_{y1} d_{y1})^2 (a_{y1} d_{y1} - a_{y1} d_{y1} - a_{y1} d_{y1} - a_{y1} d_{y1})^2 (a_{y1} d_{y1} - a_{y1} d_{y1}$ $(b_{x2} c_{y1}) + 6 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{y2} c_{x1} - b_{x2} c_{y1}) 6\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{2}\left(b_{x1}\,b_{y2}-b_{x2}\,b_{y1}\right)^{2}\left(b_{y2}\,c_{x1}-b_{x2}\,c_{y1}\right)+6\left(a_{x1}\,b_{y1}-a_{y1}\,c_{x1}\right)^{2}\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x1}\right)^{2}$ $a_{y1}\,b_{x1})\,(a_{x1}\,b_{y2}-a_{y1}\,b_{x2})\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})^2\,(b_{y2}\,c_{x1}-b_{x2}\,c_{y1})^2-24\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})^2\,(a_{x1}\,b_{y2}-a_{y1}\,b_{x2})^2$ $(a_{u1} b_{u2}) (b_{x1} b_{u2} - b_{x2} b_{u1}) (b_{x1} d_{u2} - b_{u1} d_{x2}) (b_{u2} c_{x1} - b_{x2} c_{u1}) - 6 (a_{x1} b_{u1} - a_{u1} b_{x1}) (a_{x1} b_{u2} - b_{u2} b_{u1}) (a_{x1} b_{u2} - b_{u1} b_{u2}) (a_{x1} b_{u2} - b_{u2} b_{u1}) (a_{x1} b_{u2} - b_{u1} b_{u2}) (a_{x1} b_{u2} - b_{u2} b_{u1}) (a_{x1} b_{u2} - b_{u2} b_{u2}) (a_{x1} b_{u2} - b_{u2} b_{u1}) (a_{x1} b_{u2} - b_{u2} b_{u2}) (a_{x1}$ $(a_{x1} b_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (b_{x1} c_{y2} - b_{y1} c_{x2})^2 - 6 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} c_{y2} - a_{y1} c_{x2})^2$ $(b_{y1} c_{x2})^2 (c_{x1} c_{y2} - c_{x2} c_{y1}) - 10 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{y2} c_{x1} - a_{x2} c_{y1}) (b_{x1} c_{y2} - a_{y1} c_{x2}) (a_{y2} c_{x1} - a_{y2} c_{y1}) (a_{y2} c_{x2} - a_{y1} c_{y2}) (a_{y2} c_{x1} - a_{y2} c_{y1}) (a_{y2} c_{x2} - a_{y1} c_{y2}) (a_{y2} c_{x2} - a_{y2} c_{y1}) (a_{y2} c_{x2} - a_{y2} c_{y2}) (a_{y2} c_{x2} - a_{y2} c_{y1}) (a_{y2} c_{x2} - a_{y2} c_{y2}) (a_{y2} c_{y2} - a_{y2} c_{y2}) (a_$ $(b_{y1} c_{x2})^2 - 18 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (b_{x1} c_{y2} - b_{y1} c_{x2})^2 (b_{y2} c_{x1} - b_{x2} c_{y1}) - (b_{y1} c_{x2})^2 (b_{y2} c_{x1} - b_{x2} c_{y1}) - (b_{y1} c_{x2})^2 (b_{y2} c_{x1} - b_{y2} c_{y1})$ $24\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)^{2}\left(b_{y2}\,c_{x1}-b_{x2}\,c_{y1}\right)\left(c_{x1}\,d_{y1}-c_{y1}\,d_{x1}\right)+24\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x2}\right)^{2}$ $(a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (b_{y2} c_{x1} - b_{x2} c_{y1}) (c_{x1} d_{y2} - c_{y1} d_{x2}) + 24 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{y1} b_{y2} - a_{y1} b_{x2})^2 (a_{y2} c_{x1} - b_{x2} c_{y1}) (a_{y1} d_{y2} - a_{y1} d_{x2}) + 24 (a_{y1} b_{y1} - a_{y1} b_{x1}) (a_{y1} b_{y2} - a_{y1} b_{x2})^2 (a_{y1} b_{y1} - a_{y1$ $(a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (c_{x1} c_{y2} - c_{x2} c_{y1}) - 18 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (b_{x1} b_{y2} - a_{y1} c_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_$ $(c_{x1} c_{y2} - c_{x2} c_{y1}) + 24 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (c_{x1} c_{y2} - a_{y1} c_{x2}) (c_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} c_{y2} - a_{y$ $(a_{x2} c_{y1})^2 + 36 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (b_{x1} b_{y2} - a_{y1} c_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x$ $(b_{x2} b_{y1}) (c_{x1} c_{y2} - c_{x2} c_{y1}) + 2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} b_{y2} - b_{x2} b_{y1})^2 (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{y2} c_{x1} - b_{y2} c_{x1})^2 (b_{y1} c_{y2} - c_{y2} c_{y1}) + 2 (a_{y1} c_{y1} - a_{y1} c_{y1})^2 (b_{y1} c_{y2} - b_{y2} c_{y1})^2 (b_{y1} c_{y1} - b_{y1} c_{y1}) (b_{y2} c_{x1} - b_{y1} c_{y1})^2 (b_{y1} c_{y1} - b_{y1} c_{y1})^2 (b_{y2} c_{y1} - b_{y1} c_{y1})^2 (b_{y2} c_{y1} - b_{y1} c_{y1})^2 (b_{y1} c_{y1} - b_{y1} c_{y1})^2 (b_{y2} c_{y1} - b_{y1} c_{y1})^2 (b_{y1} c_{y1} - b_{y1} c_{y1})^2 (b_{y2} c_{y1} - b_{y1} c_{y1} - b_{y1} c_{y1})^2 (b_{y2} c_{y1} - b_{y1} c_{y1} - b_{y1} c_{y1})^2 (b_{y2} c_{y1} - b_{y1} c_{y1} - b_{y1$ $b_{x2} c_{y1}$) + 2 $(a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} c_{y1} - a_{y1} c_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x2}) (a_{x1}$ $b_{y1} c_{x1} (b_{y2} c_{x1} - b_{x2} c_{y1}) - 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{x2} d_{y2} - a_{y2} d_{x2}) (b_{x1} c_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{x2} d_{y2} - a_{y2} d_{x2}) (b_{x1} c_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{x2} d_{y2} - a_{y2} d_{x2}) (b_{x1} c_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{x2} d_{y2} - a_{y2} d_{x2}) (a_{y2} b_{x1} - a_{y2} b_{y1}) (a_{y2} d_{y2} - a_{y2} d_{x2}) (a_{y2} b_{x1} - a_{y2} b_{y1}) (a_{y2} d_{y2} - a_{y2} d_{x2}) (a_{y2} d_{y2} - a_{y2} d_{y2}) (a$ $(b_{y1} c_{x1})^2 + 48 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} d_{y1} - a_{y1} b_{x1}) (a_{y2} b_{y1} - a_{y2} b_{y1}) (a_{y2} b_{y1} - a_{y2} b_{y1}) (a_{y2} b_{y1} - a_{y1} b_{y1}) (a_{y2} b_{y1} - a_{y1} b_{y1}) (a_{y2} b_{y1} - a_{y2} b_{y1}) (a_{y2} b_{y1} - a_{y1} b_{y1}) (a_{y2} b_{y1} - a_{y1} b_{y1}) (a_{y2} b_{y1} - a_{y2} b_{y1}) (a_{y2} b_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1}) (a_{y$ $b_{y1} d_{x1} (b_{x1} d_{y2} - b_{y1} d_{x2}) + 6 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{y2} d_{x1} - a_{y1} d_{x2})^3 (a_{y1} d_{y2} - a_{y1} d_{y1}) (a_{y2} d_{y1} - a_{y1} d_{y1}) (a_{y2} d_{y1} - a_{y1} d_{y1}) (a_{y1} d_{y2} - a_{y1} d_{y1}) (a_{y2} d_{y1} - a_{y1} d_{y2}) (a_{y2} d_{y2} - a_{y2} d_{y2}) (a_{y2$ $(a_{x2} d_{y1}) - 24 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x2} d_{y2} - a_{y2} d_{x2}) (b_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} - a_{y2} d_{y2}) (a_{y2} - a$ $b_{u1} d_{u2}$) $-24 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{y2} d_{x1} - a_{x2} d_{y1}) (b_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{y1} d_{y1} - a_{y1} d_{y1}) (a_{y2} d_{y1} - a_{y2} d_{y1}) (a_{y1} d_{y1} - a_{y1} d_{y1})^2 (a_{y1} d_{y1} - a_{y1} d_{y1}) (a_{y2} d_{y1} - a_{y2} d_{y1}) (a_{y1} d_{y1} - a_{y1} d_{y1})^2 (a_{y1} d_{y1} - a_{y1} d_{y1}) (a_{y2} d_{y1} - a_{y2} d_{y1}) (a_{y1} d_{y1} - a_{y1} d_{y1})^2 (a_{y1} d_{y1} - a_{y1} d_{y1}) (a_{y2} d_{y1} - a_{y2} d_{y1}) (a_{y1} d_{y1} - a_{y1} d_{y1})^2 (a_{y1} d_{y1} - a_{y1} d_{y1}) (a_{y2} d_{y1} - a_{y1} d_{y1}) (a_{y1} d_{y1} - a_{y1} d_{y1}) (a_{y2} d_{y1} - a_{y1} d_{y1}) (a_{y1} d_{y1} - a_{y1} d_{$ $b_{y1} d_{x1}$) + 10 $(a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{y2} c_{x1} - a_{x2} c_{y1})^2 (c_{x1} d_{y2} - c_{y1} d_{x2}) - 16 (a_{x1} b_{y2} - a_{y1} b_{x2})^3 (a_{x1} c_{y1} - a_{y1} b_{x2})^3 (a_{y1} c_{y1} - a_{y1} b_{y2})^3 (a_{y2} c_{y1} - a_{y2} c_{y1})^2 (a_{y2} c_{y1} - a_{y2} c_{y1} b_{y2})^3 (a_{y2} c_{y1} - a_{y2} c_{y1})^2 (a_{y2} c_{y1} - a_{y2} c_{y1} b_{y2})^3 (a_{y2} c_{y1} - a_{y2} c_{y1} b_{y2} b_{y2})^3 (a_{y2} c_{y1} - a_{y2} c_{y1} b_{y2} b_{y2} b_{y2})^3 (a_{y2} c_{y1} - a_{y2} c_{y2} b_{y2} b_$ $(a_{u1} c_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) - 6 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} d_{y2} - a_{y1} c_{y1})^3 (a_{y1} d_{y1} - a_{y1} c_{y1})^3 (a_{y1} d_{y2} - a_{y1} c_{y1})^3 (a_{y1} d_{y2} - a_{y1} c_{y1})^3 (a_{y1} d_{y1} - a_{y1} c_{y1})^3 (a_{y1} d_{y2} - a_{y1} c_{y1})^3 (a_{y1} d_{y1} - a_{y1} c_{y1} c_{y1})^3 (a_{y1} d_{y1} - a_{y1} c_{y1} c_{y1} c_{y1})^3 (a_{y1} d_{y1} - a_{y1} c_{y1} c$ $(a_{y1} d_{x2}) (a_{x2} d_{y2} - a_{y2} d_{x2}) - 10 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{y2} c_{x1} - a_{x2} c_{y1})^2 (c_{x1} d_{y1} - c_{y1} d_{x1}) - (c_{y1} d_{y1} - c_{y1} d_{x1})^2 (c_{x1} d_{y1} - c_{y1} d_{x1}) - (c_{y1} d_{y1} - c_{y1} d_{x1})^2 (c_{y1} d_{y1} - c_{y1} d_{x1}) - (c_{y1} d_{y1} - c_{y1} d_{x1})^2 (c_{y1} d_{y1} - c_{y1} d_{x1})^2 (c_{y1} d_{y1} - c_{y1} d_{x1}) - (c_{y1} d_{y1} - c_{y1} d_{x1})^2 (c_{y1} d_{y1} - c_{y1} d_{y1})^2 (c_{y1} d_{y1} - c_$ $2\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{2}\left(a_{y2}\,c_{x1}-a_{x2}\,c_{y1}\right)^{2}\left(b_{x1}\,c_{y1}-b_{y1}\,c_{x1}\right)+2\left(a_{x1}\,b_{y2}-a_{y1}\,c_{x1}\right)^{2}\left(a_{y2}\,c_{x1}-a_{y2}\,c_{y1}\right)^{2}\left(a_{y2}\,c_{y1}-a_{y1}\,c_{y1}\right)$ $(a_{u1} b_{u2})^2 (a_{x1} c_{u1} - a_{u1} c_{x1})^2 (b_{x1} c_{u1} - b_{u1} c_{x1}) (b_{u2} c_{x1} - b_{x2} c_{u1}) - 12 (a_{x1} b_{u1} - a_{u1} b_{x1}) (a_{x1} b_{u2} - a_{u1} b_{x1}) (a_$ $a_{y1} b_{x2}) \left(a_{x1} c_{y2} - a_{y1} c_{x2}\right) \left(b_{x1} b_{y2} - b_{x2} b_{y1}\right) \left(b_{x1} c_{y1} - b_{y1} c_{x1}\right) \left(b_{x1} c_{y2} - b_{y1} c_{x2}\right) - 6 \left(a_{x1} b_{y1} - b_{y1} c_$ $(a_{x1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x2} c_{y2} - a_{y2} c_{x2}) (c_{x1} c_{y2} - c_{x2} c_{y1}) + 24 (a_{x1} b_{y1} - a_{y1} c_{x2}) (a_{y2} c_{y2} - a_{y2} c_{y2}) (a_{y2} c_{y2} - a_{y2} c_{y2}) + 24 (a_{y2} c_{y2} - a_{y2} c_{y2}) (a_{y2} c_{y2} - a_{y2} c_{y2}) (a_{y2} c_{y2} - a_{y2} c_{y2}) + 24 (a_{y2} c_{y2} - a_{y2} c_{y2}) (a_{y2} c_{y2} - a_{y2} c_{$ $(a_{x1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (b_{x1} d_{y2} - b_{y1} d_{x2}) (b_{x2} d_{y2} - b_{y2} d_{x2}) - 18 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x2} b_{y2} - a_$ $(a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (b_{y2} c_{x1} - b_{x2} c_{y1}) (b_{x2} d_{y2} - b_{y2} d_{x2}) + 16 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1}$ $(a_{x1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (b_{x1} d_{y2} - b_{y1} d_{x2}) - 18 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} b_{x2})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} b_{x2})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} b_{x2})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} b_{x2})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} b_{x2})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} b_{x2})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} b_{x2})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} b_{x2})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} b_{x2})^2 (a_{x1} c_{y1} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} b_{x2})^2 (a_{x$ $a_{y1} c_{x1}) \left(b_{y2} c_{x1} - b_{x2} c_{y1}\right) \left(b_{y2} d_{x1} - b_{x2} d_{y1}\right) + 24 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right)^2 \left(a_{x1} c_{y2} - a_{y1} c_{x2}\right)^2 \left(a_{y2} d_{x1} - b_{y2} d_{y1}\right) + 24 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right)^2 \left(a_{x1} c_{y2} - a_{y1} c_{x2}\right)^2 \left(a_{y2} d_{x1} - b_{y2} d_{y1}\right) + 24 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right)^2 \left(a_{x1} c_{y2} - a_{y1} c_{x2}\right)^2 \left(a_{y2} d_{x1} - b_{y2} d_{y1}\right) + 24 \left(a_{y1} b_{y1} - a_{y1} b_{x1}\right)^2 \left(a_{y1} c_{y2} - a_{y1} c_{x2}\right)^2 \left(a_{y2} d_{x1} - b_{y2} d_{y1}\right) + 24 \left(a_{y1} b_{y1} - a_{y1} b_{x1}\right)^2 \left(a_{y1} c_{y2} - a_{y1} c_{x2}\right)^2 \left(a_{y2} d_{x1} - b_{y2} d_{y1}\right) + 24 \left(a_{y1} b_{y1} - a_{y1} b_{x1}\right)^2 \left(a_{y1} c_{y2} - a_{y1} c_{x2}\right)^2 \left(a_{y2} d_{x1} - b_{y2} d_{y1}\right) + 24 \left(a_{y1} b_{y1} - a_{y1} b_{x1}\right)^2 \left(a_{y1} c_{y2} - a_{y1} c_{x2}\right)^2 \left(a_{y2} d_{x1} - b_{y2} d_{y1}\right) + 24 \left(a_{y1} b_{y1} - a_{y1} b_{x1}\right)^2 \left(a_{y1} c_{y2} - a_{y1} c_{x2}\right)^2 \left(a_{y2} d_{x1} - b_{y2} d_{y1}\right) + 24 \left(a_{y1} b_{y1} - a_{y1} b_{x1}\right)^2 \left(a_{y1} c_{y1} - a_{y1} b_{x1}\right)^2 \left(a_{y1} c_{y1} - a_{y1} b_{y1}\right)^2 \left(a_{y1} c_{y1} - a_{y1} b_{x1}\right)^2 \left(a_{y1} c_{y1} - a_{y1}$

 $a_{x2}\,d_{v1})\,(b_{x1}\,c_{v2}-b_{v1}\,c_{x2})+12\,(a_{x1}\,b_{v1}-a_{v1}\,b_{x1})^2\,(a_{x1}\,c_{y2}-a_{y1}\,c_{x2})^2\,(a_{x2}\,d_{y2}-a_{y2}\,d_{x2})\,(b_{x1}\,c_{y2}-a_{y2}\,d_{x2})$ $(b_{y1} c_{x2}) - 4 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) - 24 (a_{x1} b_{y1} - a_{y1} b_{x2}) - 24 (a$ $(a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (b_{x1} d_{y1} - b_{y1} d_{x1}) (b_{y2} d_{x1} - b_{x2} d_{y1}) + 6 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} b_{x2})^2 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} b_{y1} - a_{y1} b_{x2})^2 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} b_{y1} - a_{y1} b_{x2})^2 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} b_{y1} - a_{y1} b_{x2})^2 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} b_{y1} - a_{y1} b_{x2})^2 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} b_{y1} - a_{y1$ $(a_{y1} c_{x2})^4 (b_{x1} b_{y2} - b_{x2} b_{y1}) + 2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (a_{y2} c_{x1} - a_{x2} c_{y1}) +$ $4 \left(a_{x1} \, b_{y1} - a_{y1} \, b_{x1}\right)^3 \left(b_{y2} \, c_{x1} - b_{x2} \, c_{y1}\right)^3 + 4 \left(a_{x1} \, b_{y2} - a_{y1} \, b_{x2}\right) \left(a_{x1} \, c_{y2} - a_{y1} \, c_{x2}\right)^4 \left(b_{x1} \, c_{y1} - a_{y1} \, b_{x2}\right)^2 + 2 \left(a_{x1} \, b_{y2} - a_{y1} \, b_{x2}\right)^2 + 2 \left(a_{x1} \, b_{x2} \, b_{x2}\right)^2 + 2 \left(a_{x1} \, b_{x2} \, b_{x2}\right)^2 + 2 \left(a_{x$ $(b_{u1} c_{x1}) - 4 (a_{x1} b_{u1} - a_{u1} b_{x1})^2 (a_{u2} b_{x1} - a_{x2} b_{u1}) (a_{u2} d_{x1} - a_{x2} d_{u1}) (b_{x1} c_{u1} - b_{u1} c_{x1})^2 - (a_{x2} b_{x1} - a_{x2} b_{u1}) (a_{u2} d_{x1} - a_{x2} d_{u1}) (a_{u2} d_{x1} - a_{u2} d_{u2}) (a_{u2} d_{x2} - a_{u2} d_{u2}) (a_{u2} d_{x2} - a_{u2} d_{u2}) (a$ $6\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{3}\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)\left(b_{x2}\,c_{y2}-b_{y2}\,c_{x2}\right)-18\left(a_{x1}\,b_{y1}-a_{y1}\,c_{x2}\right)\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)$ $(a_{y1} b_{x1})^3 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{y2} d_{x1} - a_{x2} d_{y1})^2 - 14 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{x2} c_{y2} - a_{y1} b_{x1})^3 (b_{x1} c_{y1} - a_{y1} d_{x1}) (a_{y2} d_{x1} - a_{x2} d_{y1})^2 - 14 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{y1} c_{y1} - a_{y1} d_{x1}) (a_{y2} d_{x1} - a_{y2} d_{y1})^2 - 14 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{y1} c_{y1} - a_{y1} d_{x1}) (a_{y2} d_{x1} - a_{x2} d_{y1})^2 - 14 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{y1} c_{y1} - a_{y1} d_{x1}) (a_{y2} d_{x1} - a_{y2} d_{y1})^2 - 14 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{y1} c_{y1} - a_{y1} d_{x1}) (a_{y2} d_{x1} - a_{x2} d_{y1})^2 - 14 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{y1} c_{y1} - a_{y1} d_{x1}) (a_{y2} d_{x1} - a_{y2} d_{y1})^2 - 14 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{y1} c_{y1} - a_{y1} d_{x1}) (a_{y2} d_{x1} - a_{y2} d_{y1})^2 - 14 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{y1} c_{y1} - a_{y1} d_{x1}) (a_{y2} d_{x1} - a_{y2} d_{y1})^2 - 14 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{y1} c_{y1} - a_{y1} d_{x1}) (a_{y2} d_{x1} - a_{y2} d_{y1})^2 - 14 (a_{x1} b_{y1} - a_{y1} d_{x1})^3 (a_{y1} c_{y1} - a_{y1} d_{x1})^2 - 14 (a_{x1} b_{y1} - a_{y1} d_{x1})^3 (a_{y1} c_{y1} - a_{y1} d_{x1})^2 - 14 (a_{x1} b_{y1} - a_{y1} d_{x1})^3 (a_{y1} c_{y1} - a_{y1} d_{x1})^2 - 14 (a_{x1} b_{y1} - a_{y1} d_{x1})^3 - 14 (a_{x1} b_{y1} - a_{y1}$ $(b_{y2} c_{x2})^2 - 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x1} b_{y2} - a_{y1} b_{x2}) (b_{x2} d_{y2} - b_{y2} d_{x2})^2 - 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 - 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x2} b_{y2} - a_{y1} b_{x2})^2 - 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x2} b_{y2} - a_{y1} b_{x2})^2 - 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x2} b_{y2} - a_{y1} b_{x2})^2 - 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x2} b_{y2} - a_{y1} b_{x2})^2 - 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x2} b_{y2} - a_{y1} b_{x2})^2 - 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 - 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 - 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 - 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 - 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 - 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 - 6 (a_{x1} b_{y1} - a_{y1} b_{x2})^3 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 - 6 (a_{x1} b_{y1} - a_{y1} b_{x2})^3 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 - 6 (a_{x1} b_{y1} - a_{y1} b_{x2})^3 (a_{x1} b_{y2} - a_{y1} b_{x2})^3 - 6 (a_{x1} b_{y1} - a_{y1} b_{x2})^3 (a_{x1} b_{y2} - a_{y1} b_{x2})^3 - 6 (a_{x1} b_{y1} - a_{y1} b_{x2})^3 -$ $(a_{y1} b_{x2}) (b_{y2} d_{x1} - b_{x2} d_{y1})^2 + 288 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} b_{x2}) (a_{x2} c_{y2} - a_{y1} c_{x2}) (a_{x2} c_{y2} - a_{y2} c_{y2}) (a_{$ $a_{y1} c_{x2}$) $(a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x2} d_{y2} - a_{y2} d_{x2}) - 72 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} b_{x1}) (a_{x2} d_{y2} - a_{y2} d_{x2}) - 72 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} b_{x1}) (a_{x2} d_{y2} - a_{y2} d_{x2}) - 72 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} b_{x1}) (a_{x2} d_{y2} - a_{y2} d_{x2}) - 72 (a_{x2} a_{y2} - a_{y2} a_{y2}) (a_{x1} a_{y2} - a_{y2} a_{y2}) (a_{x2} a_{y2} - a_{y2} a_{y2}) - 72 (a_{x2} a_{y2} - a_{y2} a_{y2}) (a_{x2} a_{y2} - a_{y2} a_{y2} a_{y2} a_{y2}) (a_{x2} a_{y2}$ $a_{y1} c_{x1}$) $(a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x2} d_{y2} - a_{y2} d_{x2}) + 144 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y2} d_{x2})$ $(a_{u1} b_{u2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} d_{x1} - a_{x2} d_{y1}) + 2 (a_{x1} a_{y2} - a_{y1} d_{x2}) (a_{y2} d_{x1} - a_{y2} d_{y1}) + 2 (a_{x1} a_{y2} - a_{y1} d_{x2}) (a_{y2} d_{y1} - a_{y1} d_{y2}) (a_{y2} d_{y1} - a_{y1} d_{y2}) + 2 (a_{y1} a_{y2} - a_{y1} d_{y2}) (a_{y2} d_{y1} - a_{y1} d_{y2}) (a_{y2} d_{y1} - a_{y1} d_{y2}) + 2 (a_{y1} a_{y2} - a_{y1} d_{y2}) (a_{y2} d_{y1} - a_{y1} d_{y2}) (a_{y2} d_{y2} - a_{y1} d_{y$ $(a_{x2} a_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x2} d_{y2} - a_{y2} d_{x2}) (b_{x1} c_{y1} - b_{y1} c_{x1}) + 48 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y2} d_{x2}) (a_{x2} a_{y2} - a_{y2} d_{x2}) (a_{x1} a_{y1} - a_{y1} a_{x1}) + 48 (a_{x1} a_{y1} - a_{y1} a_{x1}) (a_{x1} a_{y2} - a_{y2} a_{y2}) (a_{x2} a_{y2} - a_{y2} a_{x2}) (a_{x2} a_{y2} - a_{y2} a_{x2})$ $(a_{y1} c_{x2})^3 (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} c_{x1} - a_{x2} c_{y1}) - 144 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} a_{y2})$ $(a_{x1} b_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (c_{x1} c_{y2} - c_{x2} c_{y1}) - 6 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} c_{y1} - a_{y1} a_{y1} a_{y1})^2 (a_{x1} c_{y1} - a_{y1} a_{y1} a_{y1} a_{y1} - a_{y1} a_{y$ $(a_{y1} c_{x1})^3 (d_{x1} d_{y2} - d_{x2} d_{y1}) - 144 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} a_{y1}) (a_{y1} a_{y2} - a_{y1} a_{y2}) (a_{y1} a_{y2} - a_{y1} a_{y2}) (a_{y1} a_{y2} - a_{y1} a_{y2}) (a_{y1} a_{y1} - a_{y1} a_{y2}) (a_{y1} a_{y2} - a_{y1} a_{y2}) (a_{y1} a_{y1} - a_{y1} a_{y2}) (a_{y1} a_{y2} - a_{y1} a_{y2}) (a_{y1} a_{y1} - a_{y1} a_{y1} a_{y2}) (a_{y1} a_{y1} - a_{y1} a_{y1} a_{y2}) (a_{y1} a_{y1} - a_{y1} a_{y1}$ $a_{y1} c_{x1} (a_{x1} d_{y2} - a_{y1} d_{x2}) (c_{x2} d_{y2} - c_{y2} d_{x2}) + 72 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y2} a_{y2}) + 72 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y2} a_{y2}) + 72 (a_{x1} a_{y2} - a_{y2} a_{y1}) (a_{x1} a_{y2} - a_{y1} a_{y2}) (a_{x2} a_{y2} - a_{y2} a_{y2}) + 72 (a_{x2} a_{y2} - a_{y2} a_{y2}) (a_{x2} a_{y2} - a_{y2} a_{y2}) + 72 (a_{x2} a_{y2} - a_{y2} a_{y2}) (a_{x2} a_{y2} - a_{y2} a_{y2}) + 72 (a_{x2} a_{y2} - a_{y2} a_{y2}) (a_{x2} a_{y2} - a_{y2} a_{y2}) (a_{x2} a_{y2} - a_{y2} a_{y2}) + 72 (a_{x2} a_{y2} - a_{y2} a_{y2}) (a_{x2} a_{y2} - a_{y2} a_{y2}) (a_{x2} a_{y2} - a_{y2} a_{y2}) + 72 (a_{x2} a_{y2} - a_{y2} a_{y2}) (a_{x2} a_{y2} - a_{y2} a_{y2}) (a_{x2} a_{y2} - a_{y2} a_{y2}) + 72 (a_{x2} a_{y2} - a_{y2} a_{y2}) + 72 (a_{x2} a_{y2} - a_{y2} a_{y2} a_{y2}) (a_{x2} a_{y2} - a_{y2} a_{y2} a_{y2}) (a_{x2} a_{y2} - a_{y2} a_{y2} a_{y2}) (a_{x2} a_{y2} - a_{y2} a_{y2} a_{y2} a_{y2}) (a_{x2} a_{y2} - a_{y2} a_{y2} a_{y2} a_{y2} a_{y2}) (a_{x2} a_{y2} a_{y2}$ $(a_{u1} b_{u2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (c_{x1} c_{y2} - c_{x2} c_{y1}) + 72 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} b_{x2}) (a_{x$ $(a_{u1} c_{x1}) (a_{x1} c_{u2} - a_{u1} c_{x2}) (a_{x1} d_{u1} - a_{u1} d_{x1}) (a_{u2} d_{x1} - a_{x2} d_{u1}) + 18 (a_{x1} b_{u1} - a_{u1} b_{x1})^3 (a_{x1} d_{u2} - a_{u1} d_{x1}) (a_{x2} d_{x1} - a_{x2} d_{u1}) + 18 (a_{x2} d_{x1} - a_{x2} d_{u1}) + 18 (a_{x2} d_{x1} - a_{x2} d_{u1})^3 (a_{x2} d_{x2} - a_{x2} d_{u1}) + 18 (a_{x2} d_{x2} - a_{x2} d_{u2}) + 18 (a_{x2} d_{x2} - a_{x2} d_{x2}) + 18 (a_{x2} d_{x2}$ $(a_{y1} d_{x2}) (a_{x2} d_{y2} - a_{y2} d_{x2})^2 + 6 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{y2} c_{x1} - a_{y2} c_{x1})^3$ $(a_{x2} c_{v1}) - 36 (a_{x1} a_{v2} - a_{x2} a_{v1})^2 (a_{x1} b_{v1} - a_{v1} b_{x1}) (a_{x1} d_{v2} - a_{v1} d_{x2})^2 (c_{x1} d_{v1} - c_{v1} d_{x1}) +$ $72\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)\left(b_{y2}\,d_{x1}-a_{y1}\,c_{x2}\right)$ $b_{x2} d_{y1}$) - 144 $(a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} c_{x2})$ $(a_{y1} d_{x2}) (b_{x1} b_{y2} - b_{x2} b_{y1}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{y2} d_{x1} - a_{x2} d_{y1})^2 +$ $12\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)^{2}\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(c_{x1}\,d_{y1}-c_{y1}\,d_{x1}\right)^{2}+12\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)^{2}\left(a_{x1}\,c_{y2}-a_{y1}\,b_{x2}\right)^{2}$ $(a_{y1} c_{x2})^2 (b_{x1} c_{y1} - b_{y1} c_{x1})^2 - 12 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (b_{x1} c_{y2} - b_{y1} c_{x2})^2 +$ $18\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{2}\left(a_{y2}\,d_{x1}-a_{x2}\,d_{y1}\right)\left(a_{x2}\,d_{y2}-a_{y2}\,d_{x2}\right)+36\left(a_{x1}\,a_{y2}-a_{y2}\,d_{x2}\right)$ $(a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (c_{x1} d_{y2} - c_{y1} d_{x2}) - 72 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{y1} a_{y1} - a_{y1} a_{y1})^2 (a_{y1} a_{y2} - a_{y1} a_{y1}) (a_{y1} a_{y1} - a_{y1} a_{y1})^2 (a_{y1} a_{y1} - a_{y1} a_{y1} - a_{y1} a_{y1})^2 (a_{y1} a_{y1} - a_{y1} a_{y1} - a_{y1} a_{y1})^2 (a_{y1} a_{y1} - a_{y1} a_{y1} - a_{y1} a_{y1} a_{y1})^2 (a_{y1} a_{y1} - a_{y1} a_{y1} a_{y1} - a_{y1} a_{y$ $a_{u1} b_{x1}) \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right) \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right) \left(a_{y2} d_{x1} - a_{x2} d_{y1}\right) + 2 \left(a_{x1} a_{y2} - a_{y1} d_{x2}\right) \left(a_{y1} d_{y1} - a_{y1} d_{y1}\right) + 2 \left(a_{y1} d_{y1} - a_{y1} d_{y1}\right) \left(a_{y1} d_{y1} - a_{y1} d_{y1}\right) + 2 \left(a_{y1} d_{y1} - a_{y1} d_{y1}\right) \left(a_{y1} d_$ $(a_{x2} a_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{y2} d_{x1} - a_{x2} d_{y1}) (b_{x1} c_{y1} - b_{y1} c_{x1}) - 6 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} d_{y1} - a_{y1} c_{x1})^3 (a_{y1} d_{y1} - a_{y1} c_{y1})^3 (a_{y1} d_{y1} - a_{y1$ $a_{y1} d_{x1}$) $(a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{y2} c_{x1} - a_{x2} c_{y1}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{y2} d_{x1} - a_{y2} d_{x1})^2$ $a_{x2}\,d_{y1})\,(a_{x2}\,d_{y2}-a_{y2}\,d_{x2})-72\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})\,(a_{x1}\,b_{y2}-a_{y1}\,b_{x2})^2\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})\,(a_{x1}\,c_{y2}-a_{y1}\,b_{x2})^2$ $(a_{u1} c_{x2}) (c_{x2} d_{u2} - c_{u2} d_{x2}) - 48 (a_{x1} b_{u1} - a_{u1} b_{x1}) (a_{x1} c_{u2} - a_{u1} c_{x2})^3 (a_{x1} d_{u1} - a_{u1} d_{x1}) (a_{u2} c_{x1} - a_{u1} d_{x2})^3$ $(a_{x2} c_{y1}) + 72 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (b_{x2} d_{y2} - a_{y1} b_{x2})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (b_{x2} d_{y2} - a_{y1} b_{x2})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (b_{x2} d_{y2} - a_{y1} b_{x2})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x2} d_{y2} - a_{y1} d_{x2}) (a_{x2} d_{y2} - a_{y1} d_{x2})$ $b_{y2} d_{x2}$) $-24 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} c_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} c_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{x1} c_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{x1} c_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{x1} c_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{x1} c_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{x1} c_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y1} - a_{y1} c$ $(b_{y1} c_{x2}) + 8 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{y2} c_{x1} - b_{y1} c_{x2}) (b_{y2$ $(b_{x2} c_{y1}) - 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x2} b_{y2} - a_{y2} b_{x2}) (b_{x1} c_{y1} - b_{y1} c_{x1})^2 (b_{x1} c_{y2} - b_{y1} c_{x2}) + 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x2} b_{y2} - a_{y2} b_{x2}) (a_{x1} c_{y1} - b_{y1} c_{x1})^2 (a_{x2} b_{y2} - a_{y2} b_{x2}) + 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x2} b_{y2} - a_{y2} b_{x2}) (a_{x1} c_{y1} - b_{y1} c_{x1})^2 (a_{x2} b_{y2} - a_{y2} b_{x2}) (a_{x2} b_{y2} - a_{$ $a_{y1}\,b_{x1})^2\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})\,(b_{x1}\,b_{y2}-b_{x2}\,b_{y1})^2\,(b_{x2}\,d_{y2}-b_{y2}\,d_{x2})+12\,(a_{x1}\,a_{y2}-a_{x2}\,a_{y1})\,(a_{x1}\,b_{y1}-a_{y2}\,a_{y2})$ $(a_{x1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (b_{x1} c_{y2} - b_{y1} c_{x2}) (c_{x2} d_{y2} - c_{y2} d_{x2}) - 4 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x2} c_{y2} - a_{y1} c_{x2}) (a_{x2$ $(a_{u1} c_{x2})^3 (a_{u2} b_{x1} - a_{x2} b_{u1}) (b_{x1} d_{u2} - b_{y1} d_{x2}) - 12 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (b_{x1} d_{y1} - a_{y1} c_{x1})^2 (b_{x1} d_{y1} - a_{y1} c_{x1})^2 (a_{x1} c_{y1} - a_$

 $b_{y1} d_{x1} (b_{x1} d_{y2} - b_{y1} d_{x2}) + 12 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} c_{y1} - a_{y1} d_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x2}) (a_{x1}$ $(b_{y1} c_{x1})^2 - 12 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1})^2 - (a_{y1} c_{y1})^2 - (a_{y1} c_{y1} c_{y1})^2 - (a_{y1} c_{y1} c_{y1} c_{y1} c_{y1})^2 - (a_{y1} c_{y1} c_{y1} c_{y1} c_{y1} c_{y1} c_{y1})^2 - (a_{y1} c_{y1} c_{y1}$ $24\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)^{3}\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(c_{x1}\,d_{y1}-c_{y1}\,d_{x1}\right)-24\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)^{3}$ $(a_{u1} b_{u2})^3 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) + 24 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} d_{x2}) + 24 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} d_{x2}) + 24 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} d_{x2}) + 24 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} d_{x2}) + 24 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} d_{x2}) + 24 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} d_{x2}) + 24 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} d_{x2}) + 24 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} d_{x2}) + 24 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} d_{x2}) + 24 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} d_{x2}) + 24 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} d_{x2}) + 24 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} d_{x2}) + 24 (a_{x1} b_{y2} - a_{y1}$ $(a_{y1} c_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) - 72 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y2} a_{y1}) (a_{y2} b_{y1} - a_{y2} a_{y2}) - 72 (a_{y2} a_{y2} - a_{y2} a_{y1}) (a_{y2} b_{y1} - a_{y2} a_{y2}) - 72 (a_{y2} a_{y2} - a_{y2} a_{y1}) (a_{y2} a_{y2} - a_{y2} a_{y1}) (a_{y2} a_{y2} - a_{y2} a_{y2}) - 72 (a_{y2} a_{y2} - a_{y2} a_{y2}) (a_{y2} a_{y2} - a_{y2} a_{y2}) - 72 (a_{y2} a_{y2} - a_{y2} a_{y2}) (a_{y2} a_{y2} - a_{y2} a_{y2}) - 72 (a_{y2} a_{y2} - a_{y2} a_{y2}) (a_{y2} a_{y2} - a_{y2} a_{y2}) (a_{y2} a_{y2} - a_{y2} a_{y2}) - 72 (a_{y2} a_{y2} - a_{y2} a_{y2}) (a_{y2} a_{y2} - a_{y2} a_{y2}) (a_{y2} a_{y2} - a_{y2} a_{y2}) - 72 (a_{y2} a_{y2} - a_{y2} a_{y2}) (a_{y2} a_{y2} - a_{y2} a_{y2}) (a_{y2} a_{y2} - a_{y2} a_{y2}) - 72 (a_{y2} a_{y2} - a_{y2} a_{y2}) (a_{y2} a_{y2} - a_{y2} a_{y2}) (a_{y2} a_{y2} - a_{y2} a_{y2}) - 72 (a_{y2} a_{y2} - a_{y2} a_{y2}) (a_{y2} a_{y2} - a_{y2}$ $(a_{u1} b_{x1}) (a_{x1} c_{u1} - a_{u1} c_{x1}) (a_{x1} d_{u2} - a_{u1} d_{x2})^2 (b_{x2} c_{u2} - b_{u2} c_{x2}) + 12 (a_{x1} a_{u2} - a_{x2} a_{u1}) (a_{x1} b_{u1} - a_{u2} a_{u2}) + 12 (a_{x1} a_{u2} - a_{x2} a_{u1}) (a_{x1} a_{u2} - a_{u2} a_{u1}) (a_{x2} a_{u2} - a_{u2} a_{u2}) (a_{x2} a_{u2} - a_{u2} a_{u2} - a_{u2} a_{u2}) (a_{x2} a_{u2} - a_{u2} a_{u2} - a_{u2} a_{u2}) (a_{x2} a_{u2} - a_{u2} a_{u2}$ $a_{y1} b_{x1}) \left(a_{x1} c_{y2} - a_{y1} c_{x2}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right) \left(b_{x1} c_{y2} - b_{y1} c_{x2}\right)^{2} + 72 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right) \left(a_{x1} b_{y2} - a_{y1} b_{x1}\right) \left(a_{x1} b_{y2} - a_{y1} b_{x1}\right) \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right) \left(a_{x1} b_{y2} - a_{y1} b_{x1}\right) \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right) \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right) \left(a_{x1} b_{y2} - a_{y1} b_{x1}\right) \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right) \left(a_{x1} b_{y1$ $(a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) + 72 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} c_{x2})^2 (a_{y1} c_{y2} - a_{y1} c_{y2})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) + 72 (a_{y1} c_{y2} - a_{y1} c_{y2}) (a_{y1} c_{y2} - a_{y1} c_{y2}) (a_{y2} c_{y1} - a_{y1} c_{y2}) (a_{y2} c_{y1} - a_{y1} c_{y2}) (a_{y1} c_{y2} - a_{y1} c_{y2}) (a_{y2} c_{y1} - a_{y1} c_{y$ $(a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{y2} c_{x1} - b_{x2} c_{y1}) + 36 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x2} c_{y1} - a_{y1} c_{x2})^2 (a_{x2} c_{y2} - a_{y2} c_{y2})^2 (a_{x2} c_{y2} - a_{y2} c_{y2} c_{y2})^2 (a_{x2} c_{y2} - a_{y2} c_{y2} c_{y2})^2 (a_{x2} c_{y2} - a_{y2} c_{y2} c_{y2} c_{y2} c_{y2})^2 (a_{x2} c_{y2} - a_{y2} c_{y2} c_{y2}$ $(a_{x1} c_{x2})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} c_{y1} - b_{y1} c_{x1}) - 72 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} b_{x2}) (a_{x$ $(a_{y1} c_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x1}) (b_{y2} c_{x1} - b_{x2} c_{y1}) - 72 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} c_{y1} - a_{y$ $(a_{x1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (c_{y2} d_{x1} - c_{x2} d_{y1}) - 36 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x1} c_{y1} - a_{y1} c_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_$ $(a_{u1} c_{x2})^2 (b_{x1} d_{u1} - b_{u1} d_{x1}) - 72 (a_{x1} a_{u2} - a_{x2} a_{u1}) (a_{x1} b_{u1} - a_{u1} b_{x1})^2 (a_{x1} b_{u2} - a_{u1} b_{x2}) (b_{x1} d_{u1} - a_{u1} b_{u2}) (a_{x1} a_{u2} - a_{u1} b_{u2}) (a_{x1} a_{u2} - a_{u2} a_{u1}) (a_{x1} a_{u2} - a_{u1} a_{u2}) (a_{x1} a_{u2} - a_{u1} a_{u2}) (a_{x1} a_{u2} - a_{u2} a_{u1}) (a_{x1} a_{u2} - a_{u1} a_{u2}) (a_{x1} a_{u2} - a_{u2} a_{u1}) (a_{x1} a_{u2} - a_{u2} a_{u2}) (a_$ $b_{y1} d_{x1}) (c_{x2} d_{y2} - c_{y2} d_{x2}) - 2 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} c_{y1} - b_{y1} c_{x1})^3 +$ $2(a_{x1}a_{y2}-a_{x2}a_{y1})^{2}(a_{x1}d_{y1}-a_{y1}d_{x1})(b_{x1}c_{y1}-b_{y1}c_{x1})^{3}+4(a_{x1}c_{y1}-a_{y1}c_{x1})^{3}(a_{x1}c_{y2}-a_{y1}c_{x1})^{3}$ $a_{y1} c_{x2}) \left(a_{x2} b_{y2} - a_{y2} b_{x2}\right) \left(b_{x1} c_{y1} - b_{y1} c_{x1}\right) + 4 \left(a_{x1} b_{y2} - a_{y1} b_{x2}\right) \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right)^3 \left(a_{y2} b_{x1} - a_{y1} c_{x2}\right) + 4 \left(a_{x1} b_{y2} - a_{y1} b_{x2}\right) \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right)^3 \left(a_{y2} b_{x1} - a_{y1} c_{x2}\right) + 4 \left(a_{x1} b_{y2} - a_{y1} b_{x2}\right) \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right)^3 \left(a_{y2} b_{x2} - a_{y2} b_{x2}\right) + 4 \left(a_{x1} b_{y2} - a_{y1} b_{x2}\right) \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right)^3 \left(a_{y2} b_{x1} - a_{y1} b_{x2}\right) + 4 \left(a_{x1} b_{y2} - a_{y1} b_{x2}\right) \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right)^3 \left(a_{y2} b_{x1} - a_{y1} b_{x2}\right) + 4 \left(a_{x1} b_{y2} - a_{y1} b_{x2}\right) \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right)^3 \left(a_{y2} b_{x1} - a_{y1} b_{x2}\right) + 4 \left(a_{x1} b_{y2} - a_{y1} b_{x2}\right) \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right)^3 \left(a_{y2} b_{x1} - a_{y1} b_{x2}\right) + 4 \left(a_{x1} b_{y2} - a_{y1} b_{x2}\right) \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right)^3 \left(a_{y2} b_{x1} - a_{y1} b_{x2}\right) + 4 \left(a_{x1} b_{y2} - a_{y1} b_{x2}\right) \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right)^3 \left(a_{y2} b_{x1} - a_{y1} b_{x2}\right) + 4 \left(a_{x1} b_{y2} - a_{y1} b_{x2}\right) \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right)^3 \left(a_{y2} b_{x1} - a_{y1} b_{x2}\right) + 4 \left(a_{x1} b_{y2} - a_{y1} b_{x2}\right) \left(a_{x1} c_{y1} - a_{y1} b_{x2}\right) + 4 \left(a_{x1} b_{y2} - a_{y1} b_{x2}\right) \left(a_{x1} c_{y1} - a_{y1} b_{x2}\right) + 4 \left(a_{x1} b_{y2} - a_{y1} b_{x2}\right) \left(a_{x1} c_{y1} - a_{y1} b_{x2}\right) + 4 \left(a_{x1} b_{y2} - a_{y1} b_{x2}\right) + 4 \left(a_{x1} b_{y2}$ $(a_{x2} b_{y1}) (c_{x1} c_{y2} - c_{x2} c_{y1}) + 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (b_{x1} b_{y2} - b_{x2} b_{y1})^2 (b_{y2} d_{x1} - a_{y1} b_{x1})^2 (a_{y1} c_{y1} - a_{y1} c_{y1})^2 (a_{y2} c_{y1} - a_{y1} c_{y1})^2 (a_{y1} c_{y1} - a_{y1} c_{y1} c_{y1})^2 (a_{y1} c_{y1} - a_{y1} c_{y1} c_{y1} c_{y1} c_{y1})^2 (a_{y1} c_{y1} - a_{y1} c_{y1} c_{y1}$ $(b_{x2} d_{y1}) + 36 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (b_{y2} d_{x1} - a_{y1} d_{x1}) (a_{y1} d_{y1} - a_{y1} d_{y1}) (a_{y$ $(b_{x2} d_{y1}) - 36 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (b_{x1} d_{y1} - b_{y1} d_{x1}) (b_{x1} d_{y2} - a_{y1} d_{y1}) (a_{y1} d_{y1} - a_{y1} d_{y1}) (a_{y$ $b_{y1} d_{x2}$) $-48 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} b_{y2} - a_{y1} d_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{y1} b_{y2} - a_{y1} d_{x2}) (a_{y2} b_{x1} - a_{y2} b_{y1}) (a_{y2} b_{y1} - a_{y2} b_{y1}) (a_{y2} b_{y2} - a_{y2} b_{y1}) (a_{y2} b_{y2} - a_{y2} b_{y2}) (a_{y2}$ $b_{x2}\,b_{y1})\,(b_{x1}\,c_{y1}-b_{y1}\,c_{x1})+24\,(a_{x1}\,a_{y2}-a_{x2}\,a_{y1})\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})^3\,(b_{y2}\,d_{x1}-b_{x2}\,d_{y1})\,(c_{y2}\,d_{x1}-b_{y2}\,d_{y1})$ $(c_{x2} d_{y1}) - 60 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{y2} d_{x1} - a_{x2} d_{y1}) (b_{x1} b_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{y2} d_{x1} - a_{x2} d_{y1}) (b_{x1} b_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{y2} d_{x1} - a_{x2} d_{y1}) (a_{x1} d_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{y2} d_{x1} - a_{x2} d_{y1}) (a_{x1} d_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{y2} d_{x1} - a_{x2} d_{y1}) (a_{x1} d_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{y2} d_{x1} - a_{x2} d_{y1}) (a_{x1} d_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{y2} d_{x1} - a_{x2} d_{y1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{y2} d_{x1} - a_{x2} d_{y1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{y2} d_{x1} - a_{y2} d_{y1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{y2} d_{x1} - a_{y2} d_{y1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{y2} d_{x1} - a_{y2} d_{y1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{y2} d_{x1} - a_{y2} d_{y1}) (a_{x1} d_{y1} - a_{y1} d_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{y2} d_{x1} - a_{y2} d_{y1}) (a_{x1} d_{y1} - a_{y1} d_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{y2} d_{x1} - a_{y2} d_{y1}) (a_{x1} d_{y1} - a_{y1} d_{x2}) (a_{x$ $(b_{x2} b_{y1}) + 36 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1}) (b_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y1} a_{y1} - a_{y1} a_{y1}) (a_{y1} a_{y2} - a_{y1} a_{y1}) (a_{y1} a_{y1} - a_{y1} a_{y1}) (a_{y1} a_{y2} - a_{y1} a_{y1}) (a_{y1} a_{y1} - a_{y1} a_{y1} a_{y1}) (a_{y1} a_{y1} - a_{y1} a_{y1} a_{y1} - a_{y1} a_{y1}) (a_{y1} a_{y1} - a_{y1} a_{y1} a_{y1} a_{y1} - a_{y1} a_{y1} a_{y1}) (a_{y1} a_{y1} - a_{y1} a$ $(b_{y1} d_{x2}) + 12 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^3 (a_{x1} d_{y1} - a_{y1} d_{x1}) (c_{x1} d_{y1} - c_{y1} d_{x1}) - (c_{x1} d_{y1} - c_{y$ $84\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)\left(b_{x1}\,b_{y2}-b_{x2}\,b_{y1}\right)\left(b_{x1}\,d_{y1}-a_{y1}\,d_{x2}\right)$ $b_{y1} d_{x1}$) + 12 $(a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (c_{x1} c_{y2} - a_{y1} c_{x2})^2$ $(a_{x2} c_{y1}) + 8 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (b_{x1} c_{y1} - b_{y1} c_{x1})^3 + 4 (a_{x1} c_{y1} - b_{y1} c_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x2} c_{y1} - b_{y1} c_{x2})^3 + 4 (a_{x1} c_{y1} - b_{y1} c_{x2})^3 + 4 (a$ $(a_{u1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} c_{y1} - b_{y1} c_{x1}) + 6 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y2} a_{y1})^2 (a_{y1} b_{y1} - a_{y2} a_{y1})^2 (a_{y2} a_{y1} - a_{y2} a_{y1})^2 (a_{y1} b_{y1} - a_{y2} a_{y1} a_{y1} - a_{y2} a_{y1})^2 (a_{y1} b_{y1} - a_{y2} a_{y1} a_{y1} - a_{y2} a_{y1} a_{y1} a_{y1} a_{y2} a_{y1} a_{y2} a_{y1} a_{y2} a_{y2} a_{y1} a_{y2} a_{y2$ $(a_{x1} \, b_{x1}) \, (a_{x1} \, d_{y1} - a_{y1} \, d_{x1}) \, (b_{x1} \, d_{y2} - b_{y1} \, d_{x2})^2 - 6 \, (a_{x1} \, a_{y2} - a_{x2} \, a_{y1})^2 \, (a_{x1} \, b_{y1} - a_{y1} \, b_{x1}) \, (a_{x1} \, d_{y2} - a_{y1} \, d_{x2})^2 + 6 \, (a_{x1} \, a_{y2} - a_{x2} \, a_{y1})^2 \, (a_{x1} \, b_{y1} - a_{y1} \, b_{x1}) \, (a_{x1} \, d_{y2} - a_{y1} \, d_{x2})^2 + 6 \, (a_{x1} \, a_{y2} - a_{x2} \, a_{y1})^2 \, (a_{x1} \, b_{y1} - a_{y1} \, b_{x1}) \, (a_{x1} \, d_{y2} - a_{y1} \, d_{x2})^2 + 6 \, (a_{x1} \, a_{y2} - a_{x2} \, a_{y1})^2 \, (a_{x1} \, b_{y1} - a_{y1} \, b_{x1}) \, (a_{x1} \, d_{y2} - a_{y1} \, d_{x2})^2 + 6 \, (a_{x1} \, a_{y2} - a_{x2} \, a_{y1})^2 \, (a_{x1} \, b_{y1} - a_{y1} \, b_{x1}) \, (a_{x1} \, d_{y2} - a_{y1} \, d_{x2})^2 + 6 \, (a_{x1} \, a_{y2} - a_{x2} \, a_{y1})^2 \, (a_{x1} \, b_{y1} - a_{y1} \, b_{x1}) \, (a_{x1} \, d_{y2} - a_{y1} \, d_{x2})^2 + 6 \, (a_{x1} \, a_{y2} - a_{x2} \, a_{y1})^2 \, (a_{x1} \, b_{y1} - a_{y1} \, b_{x1}) \, (a_{x1} \, d_{y2} - a_{y1} \, d_{x2})^2 + 6 \, (a_{x1} \, a_{y2} - a_{x2} \, a_{y1})^2 \, (a_{x1} \, b_{y1} - a_{y1} \, b_{x1}) \, (a_{x1} \, d_{y2} - a_{y1} \, d_{x2})^2 + 6 \, (a_{x1} \, a_{y2} - a_{x2} \, a_{y1})^2 \, (a_{x1} \, b_{y1} - a_{y1} \, b_{x1}) \, (a_{x1} \, d_{y2} - a_{y1} \, d_{x2})^2 + 6 \, (a_{x1} \, a_{y2} - a_{x2} \, a_{y1})^2 \, (a_{x1} \, b_{y1} - a_{y1} \, b_{x1}) \, (a_{x1} \, d_{y2} - a_{y1} \, d_{x2})^2 + 6 \, (a_{x1} \, a_{y2} - a_{x2} \, a_{y1})^2 \, (a_{x1} \, b_{y1} - a_{y1} \, b_{x1}) \, (a_{x1} \, d_{y2} - a_{y1} \, d_{x2})^2 + 6 \, (a_{x1} \, a_{y2} - a_{y1} \, a_{y1})^2 \, (a_{x1} \, a_{y2} - a_{y1} \, a_{y1}) \, (a_{x1} \, a_{y2} - a_{y1} \, a_{y1})^2 + 6 \, (a_{x1} \, a_{y2} - a_{y1} \, a_{y1})^2 \, (a_{x1} \, a_{y2} - a_{y1} \, a_{y2})^2 + 6 \, (a_{x1} \, a_{y2} - a_{y1} \, a_{y2})^2 + 6 \, (a_{x1} \, a_{y2} - a_{y1} \, a_{y2})^2 + 6 \, (a_{x1} \, a_{y2} - a_{y1} \, a_{y2})^2 + 6 \, (a_{x1} \, a_{y2} - a_{y1} \, a_{y2})^2 + 6 \, (a_{x1} \, a_{y2} - a_{y2} \, a_{y2})^2 + 6 \, (a_{x1} \, a_{y2} - a_{y2} \, a_{y2})^2 + 6 \, (a_{x1} \, a_{y2} - a_{y2} \, a_{y2})^2 + 6 \, (a_{x1} \, a_{y2} - a_{y2} \, a_{y2})^2 + 6 \, (a_{x1} \, a_{y2} - a_{y2} \, a_{y2})^2 + 6$ $(a_{u1} d_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1})^2 - 8 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} c_{y2} - b_{y2} b_{y2} b_{y2}) (b_{x1} c_{y2} - b_{y2} b_{y2} b_{y2} - b_{y2} b_{y2} b_{y2}) (b_{x1} c_{y2} - b_{y2} b_{y2} b_{y2} - b_{y2} b_{y2} b_{y2}) (b_{x1} c_{y2} - b_{y2} b_{y2} b_{y2} - b_{y2} b_{y2} b_{y2} b_{y2}) (b_{x1} c_{y2} - b_{y2} b_{y2}$ $(b_{y1} c_{x2}) + 12 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{y2} c_{x1} - a_{x2} c_{y1}) (b_{y2} c_{x1} - a_{y1} c_{x2})^2 (a_{y1} c_{y2} - a_{y1} c_{y2}) (a_{y2} c_{x1} - a_{y2} c_{y1}) (a_{y2} c_{x1} - a_{y2} c_{y2}) (a_{y2} c_{x1} - a_{y2} c_{y1}) (a_{y2} c_{x1} - a_{y2} c_{y2}) (a_{y2} c_{x2} - a_{y2} c_{y2}) (a_{y2} c_{y2} - a_{y2} c_{y2}) (a_$ $b_{x2} c_{y1}$) + 8 $(a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{y2} c_{x1} - a_{x2} c_{y1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) + 12 (a_{x1} b_{y1} - a_{y1} c_{x2}) + 12 (a_{x1} b_{y1} - a_{y1} c_{x2}) + 12 (a_{x1} b_{y1} - a_{y1} c_{x2}) + 12 (a_{x1} b_{y2} - a_{y1} c_{x2}) + 12 (a_{x1} b_{y1} - a_{y1} c_{x2}) + 12 (a_{x1} b_{y2} - a_{y1} c_{x2}) + 12 (a_{x1} b_{y1} - a_{y1} c_{x2}) + 12 ($ $(a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x2} b_{y2} - a_{y2} b_{x2}) (b_{x1} c_{y1} - b_{y1} c_{x1}) (c_{x1} c_{y2} - c_{x2} c_{y1}) - 8 (a_{x1} b_{y1} - a_{y1} c_{x1}) (a_{x2} b_{y2} - a_{y2} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x2} b_{y2} - a_{y2} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x2} c_{y2} - a_{y2} c_{x2}) - 8 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x2} c_{y2} - a_{y2} c_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x2} c_{y2} - a_{y2} c_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x2} c_{y2} - a_{y2} c_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x2} c_{y2} - a_{y2} c_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x2} c_{y2} - a_{y2} c_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x2} c_{y2} - a_{y2} c_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x2} c_{y2} - a_{y2} c_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x2} c_{y2} - a_{y2} c_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x2} c_{y2} - a_{y2} c_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x2} c_{y2} - a_{y2} c_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x2} c_{y2} - a_{y2} c_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x2} c_{y2} - a_{y2} c_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x2} c_{y2} - a_{y2} c_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x2} c_{y2} - a_{y2} c_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x2} c_{y2} - a_{y2} c_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x2} c_{y2} - a_{y2} c_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x2}) (a$ $(a_{u1} b_{u1}) (a_{u1} c_{u1} - a_{u1} c_{u1}) (a_{u1} d_{u2} - a_{u1} d_{u2}) (b_{u1} b_{u2} - b_{u2} b_{u1})^3 - 8 (a_{u1} a_{u2} - a_{u2} a_{u1}) (a_{u1} b_{u1} - a_{u2} a_{u1}) (a_{u1} b_{u2} - a_{u2} a_{u1}) (a_{u2} a_{u2} - a_{u2} a_{u1}) (a_{u1} b_{u2} - a_{u2} a_{u1}) (a_{u2} a_{u2} - a_{u2} a_{u2}) (a_{u2$ $(a_{u1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (b_{x1} c_{y2} - b_{y1} c_{x2})^3 + 8 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x2} c_{y2} - a_{y2} c_{x2}) (b_{x1} c_{y2} - a_{y2} c_{x2}) (a_{x1} c_{y2} - a_{y2} c_{x2}) (a_{x1} c_{y2} - a_{y2} c_{x2}) (a_{x2} c_{y2} - a_{y2} c_{x2}) (a_{x1} c_{y2} - a_{y2} c_{x2}) (a_{x2} c_{y2} - a_{y2} c_{x2}) (a_{x1} c_{y2} - a_{y2} c_{x2}) (a_{x2} c_{y2} - a_{y2} c_{x2}) (a_{x1} c_{y2} - a_{y2} c_{x2}) (a_{x2} c_{y2} - a_{y2} c_{x2}) (a_{$ $b_{y1}\,c_{x2})\,(c_{x1}\,c_{y2}-c_{x2}\,c_{y1})-12\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})^2\,(a_{x1}\,c_{y2}-a_{y1}\,c_{x2})\,(a_{y2}\,c_{x1}-a_{x2}\,c_{y1})\,(b_{x1}\,c_{y1}-a_{y1}\,b_{x1})^2$ $b_{y1}\,c_{x1})\,(b_{y2}\,c_{x1}-b_{x2}\,c_{y1})-4\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})^3\,(a_{y2}\,c_{x1}-a_{x2}\,c_{y1})\,(b_{y2}\,c_{x1}-b_{x2}\,c_{y1})\,(c_{x1}\,c_{y2}-a_{y2}\,c_{y1})$ $(a_{x2} c_{y1}) + 12 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} d_{x1} - a_{x2} d_{y1}) (b_{x1} d_{y2} - a_{y1} d_{x2})$ $(b_{y1} d_{x2}) + 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} d_{x1} - a_{x2} d_{y1}) (a_{x2} d_{y2} - a_{y2} d_{x2}) +$ $24\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)\left(a_{x2}\,d_{y2}-a_{y2}\,d_{x2}\right)\left(b_{x1}\,d_{y1}-b_{y1}\,d_{x1}\right)+$ $24 \left(a_{x1} \, b_{y1} - a_{y1} \, b_{x1}\right) \left(a_{x1} \, c_{y2} - a_{y1} \, c_{x2}\right)^2 \left(a_{x1} \, d_{y1} - a_{y1} \, d_{x1}\right) \left(b_{x1} \, b_{y2} - b_{x2} \, b_{y1}\right)^2 - 12 \left(a_{x1} \, b_{y1} - a_{y1} \, b_{y2}\right)^2 + 12 \left(a_{x1} \, b_{y2} - a_{y1} \, b_{y2}\right)^2 + 12 \left(a_{x1} \, b_{y2} - a_{y1} \, b_{y2}\right)^2 + 12 \left(a_{x1} \, b_{y2} - a_{y2} \, b_{y2}\right)^2 + 12 \left(a_{x1} \, b_{y2} - a_{y2} \, b_{y2}\right)^2 + 12 \left(a_{x1} \, b_{y2} - a_{y2} \, b_{y2}\right)^2 + 12 \left(a_{x1} \, b_{y2} - a_{y2} \, b_{y2}\right)^2 + 12 \left(a_{x1} \, b_{y2} - a_{y2} \, b_{y2}\right)^2 + 12 \left(a_{x1} \, b_{y2} - a_{y2} \, b_{y2}\right)^2 + 12 \left(a_{x1} \, b_{y2} - a_{y2} \, b_{y2}\right)^2 + 12 \left(a_{x2} \, b_{y2} - a_{y2} \, b_{y2}$

 $a_{y1}\,b_{x1})^2\,(a_{x1}\,d_{y1}-a_{y1}\,d_{x1})^2\,(a_{y2}\,b_{x1}-a_{x2}\,b_{y1})\,(a_{x2}\,d_{y2}-a_{y2}\,d_{x2})+12\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})^2\,(a_{x1}\,b_{y2}-a_{y2}\,d_{x2})+12\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})^2\,(a_{x1}\,b_{y2}-a_{y2}\,b_{x1})^2$ $(a_{u1} b_{u2})^2 (b_{u1} c_{u2} - b_{u1} c_{u2}) (c_{u2} d_{u1} - c_{u2} d_{u1}) - 6 (a_{u1} b_{u1} - a_{u1} b_{u1})^3 (a_{u1} b_{u2} - a_{u1} b_{u2}) (b_{u2} c_{u2} - a_{u2} b_{u2}) (b_{$ $b_{y2}\,c_{x2})\,(c_{y2}\,d_{x1}-c_{x2}\,d_{y1}) + 8\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})\,(a_{x1}\,d_{y1}-a_{y1}\,d_{x1})\,(b_{x1}\,b_{y2}-a_{y1}\,d_{x1})\,(a_{x2}\,d_{y1}-a_{y1}\,d_{y2}) + 6\,(a_{x1}\,b_{y2}-a_{y1}\,b_{x1})\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})\,(a_{x1}\,d_{y1}-a_{y1}\,d_{x1})\,(a_{x2}\,d_{y2}-a_{y1}\,d_{y2}) + 6\,(a_{x1}\,b_{y2}-a_{y1}\,b_{x1})\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})\,(a_{x2}\,d_{y2}-a_{y2}\,d_{y2}) + 6\,(a_{x2}\,d_{y2}-a_{y2}\,d_{y2}) + 6\,(a_{x2}\,d_{y2}-a_{y2}\,d_{y2})\,(a_{x2}\,d_{y2}-a_{y2}\,d_{y2}) + 6\,(a_{x2}\,d_{y2}-a_{y2}\,d_{y2}) + 6\,(a_{x2}\,d_{y2}-a_{y2}\,d_{y2})$ $(b_{x2} b_{y1})^3 + 12 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) (b_{x2} c_{y2} - a_{y2} a_{y1}) (a_{y1} b_{y1} - a_{y1} b_{x1})^2 (a_{y1} c_{y1} - a_{y1} c_{y1}) ($ $b_{y2}\,c_{x2}) - 12\,(a_{x1}\,b_{y1} - a_{y1}\,b_{x1})\,(a_{x1}\,b_{y2} - a_{y1}\,b_{x2})^2\,(a_{x1}\,c_{y1} - a_{y1}\,c_{x1})\,(b_{x1}\,d_{y1} - b_{y1}\,d_{x1})\,(b_{y2}\,c_{x1} - a_{y1}\,b_{x2})^2\,(a_{x1}\,c_{y1} - a_{y1}\,c_{x1})\,(a_{x1}\,d_{y1} - a_{y1}\,d_{x1})\,(a_{y2}\,c_{x1} - a_{y1}\,d_{x2})^2\,(a_{x1}\,c_{y1} - a_{y1}\,c_{x1})\,(a_{x1}\,d_{y1} - a_{y1}\,d_{x1})\,(a_{y2}\,c_{x1} - a_{y1}\,d_{x2})^2\,(a_{x1}\,c_{y1} - a_{y1}\,c_{x1})\,(a_{x1}\,d_{y1} - a_{y1}\,d_{x1})\,(a_{y2}\,c_{x1} - a_{y1}\,d_{x2})^2\,(a_{x1}\,c_{y1} - a_{y1}\,d_{x1})\,(a_{y1}\,d_{y1} - a_{y1}\,d_{x1})\,(a_{y2}\,c_{x1} - a_{y1}\,d_{x2})^2\,(a_{y1}\,d_{y2}\,d_{y1} - a_{y1}\,d_{y1})^2\,(a_{y1}\,d_{y1} - a_{y1}\,d_{y1})^2$ $(b_{x2} c_{v1}) - 4 (a_{x1} b_{v2} - a_{v1} b_{x2})^3 (a_{x1} c_{v1} - a_{v1} c_{x1}) (b_{x1} c_{v1} - b_{v1} c_{x1}) (b_{x1} d_{v1} - b_{v1} d_{x1}) - 12 (a_{x1} a_{v2} - a_{v1} b_{x2})^3 (a_{x1} c_{v1} - a_{v1} c_{x1}) (a_{x1} c_{v1} - a_{v1} c_{x1})$ $(a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1}) (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2})^2 - 12 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} a_{y2} - a_{y1} a_{y1})^2 (a_{x1} a_{y2} - a_{y1} a_{y1})^2 (a_{x1} a_{y1} - a_{y1} a_{y1} a_{y1})^2 (a_{x1} a_{y1} - a_{y1} a_{y1} a_{y1} a_{y1} a_{y1})^2 (a_{x1} a_{y1} - a_{y1} a$ $a_{y1} b_{x1}) (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{x1} d_{y1} - b_{y1} d_{x1})^2 - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{y2} b_{x1} - a_{y1} b_{x1})^2 (a_{y1} c_{y2} - a_{y1} c_{y2})^2 (a_{y2} b_{x1} - a_{y1} b_{x1})^2 + 12 (a_{y1} c_{y2} - a_{y1} c_{y2})^2 (a_{y2} b_{x1} - a_{y1} b_{x1})^2 + 12 (a_{y1} c_{y2} - a_{y1} c_{y2})^2 (a_{y2} b_{x1} - a_{y1} b_{x1})^2 + 12 (a_{y1} c_{y2} - a_{y1} c_{y2})^2 + 12 (a_{y1} c_{y2} - a_{y1} c_{y2} - a_{y1} c_{y2})^2 + 12 (a_{y1} c_{y2} - a_{y1} c_{y2} - a_{y1} c_{y2})^2 + 12 (a_{y1} c_{y2} - a_{y1} c_{y2} - a_{y1} c_{y2})^2 + 12 (a_{y1} c_{y2} - a_{y1} c_{y2} - a_{y1} c_{y2})^2 + 12 (a_{y1} c_{y2} - a_{y1} c_{y2} - a_{y1} c_{y2})^2 + 12 (a_{y1} c_{y2} - a_{y1} c_{y2} - a_{y1} c_{y2})^2 + 12 (a_{y1} c_{y2} - a_{y1} c_{y2} - a_{y1} c_{y2})^2 + 12 (a_{y1} c_{y2} - a_{y1} c_{y2} - a_{y1} c_{y2})^2 + 12 (a_{y1} c_{y2} - a_{y1} c_{y2} - a_{y1} c_{y2})^2 + 12 (a_{y1} c_{y2} - a_{y1} c_{y2} - a_{y1} c_{y2})^2 + 12 (a_{y1} c_{y2} - a_{y1} c_{y2} - a_{y1} c_{y2})^2 + 12 (a_{y1} c_{y2} - a$ $(a_{x2} b_{y1}) (c_{y2} d_{x1} - c_{x2} d_{y1}) - 2 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{y2} b_{x1} - a_{x2} b_{y1})^2 (b_{x1} d_{y1} - b_{y1} d_{x1}) - (a_{y1} c_{y1} d_{y1} - a_{y1} d_{y1})^2 (b_{y1} d_{y1} - b_{y1} d_{y1}) - (a_{y1} c_{y1} d_{y1} - a_{y1} c_{y1})^3 (a_{y2} b_{y1} - a_{y1} d_{y1})^2 (b_{y1} d_{y1} - b_{y1} d_{y1}) - (a_{y1} c_{y1} d_{y1} - a_{y1} d_{y1})^3 (a_{y2} d_{y1} - a_{y1} d_{y1$ $8\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)^{3}\left(a_{y2}\,b_{x1}-a_{x2}\,b_{y1}\right)\left(b_{x1}\,d_{y1}-b_{y1}\,d_{x1}\right)+2\left(a_{x1}\,c_{y1}-a_{y1}\,b_{x1}\right)^{3}\left(a_{y2}\,b_{x1}-a_{y2}\,b_{y1}\right)\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)+2\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)^{3}\left(a_{y2}\,b_{x1}-a_{x2}\,b_{y1}\right)\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)+2\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)^{3}\left(a_{y2}\,b_{x1}-a_{x2}\,b_{y1}\right)\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)+2\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)^{3}\left(a_{y2}\,b_{x1}-a_{x2}\,b_{y1}\right)\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)+2\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)^{3}\left(a_{y2}\,b_{x1}-a_{x2}\,b_{y1}\right)\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)+2\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)^{3}\left(a_{y2}\,b_{x1}-a_{x2}\,b_{y1}\right)\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)+2\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)^{3}\left(a_{y2}\,b_{x1}-a_{x2}\,b_{y1}\right)\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)+2\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)^{3}\left(a_{y2}\,b_{x1}-a_{x2}\,b_{y1}\right)\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)+2\left(a_{x1}\,d_{x1}-a_{x2}\,d_{x2}\right)^{3}\left(a_{y2}\,b_{x1}-a_{x2}\,b_{y1}\right)\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)+2\left(a_{x1}\,d_{x2}-a_{x2}\,d_{x2}\right)^{3}\left(a_{y2}\,b_{x1}-a_{x2}\,b_{y1}\right)\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)+2\left(a_{x1}\,d_{x2}-a_{x2}\,d_{x2}\right)^{3}\left(a_{y2}\,d_{x2}-a_{y1}\,d_{x2}\right)$ $(a_{y1} c_{x1})^3 (a_{y2} b_{x1} - a_{x2} b_{y1})^2 (b_{x1} d_{y2} - b_{y1} d_{x2}) - 6 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} b_{x1} - a_{y2} b_{x1})^2$ $(a_{x2} b_{y1})^2 (b_{x1} c_{y1} - b_{y1} c_{x1}) + 6 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (b_{x1} c_{y1} - b_{y1} c_{x1})^2 (b_{x1} d_{y2} - a_{y2} a_{y1})^2$ $(b_{y1} d_{x2}) - 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{y2} c_{x1} - a_{x2} c_{y1})^2 (b_{x1} d_{y2} - b_{y1} d_{x2}) +$ $6\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{2}\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)\left(a_{y2}\,b_{x1}-a_{x2}\,b_{y1}\right)^{2}\left(b_{x1}\,c_{y1}-b_{y1}\,c_{x1}\right)-6\left(a_{x1}\,a_{y2}-a_{y1}\,a_{x1}\right)^{2}$ $(a_{x2} a_{y1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (b_{x1} c_{y1} - b_{y1} c_{x1})^2 (b_{x1} d_{y1} - b_{y1} d_{x1}) + 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} b_{x1})^2 (a_{y1} c_{y1} - a_{y1} b_{y1})^2 (a_{y1} c_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1})^2 (a_{y1} c_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1})^2 (a_{y1} c_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1})^2 (a_{y1} c_{y1} - a_{y1} b_{y1} (a_{y1} c_{x1}) (a_{y2} c_{x1} - a_{x2} c_{y1})^2 (b_{x1} d_{y1} - b_{y1} d_{x1}) + 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (b_{x1} b_{y2} - a_{y1} c_{x2})^2 (b_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (b_{x1} b_{y2} - a_{y1} c_{x2})^2 (b_{x1} b_{y1} - a_{y1} c_{x2})^2 (b_{x1} b_{y2} - a_{$ $(b_{x2} b_{y1}) (b_{x2} d_{y2} - b_{y2} d_{x2}) + 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x1} b_{y2} - a_{y1} b_{x2}) (b_{x2} c_{y2} - b_{y2} c_{x2}) (c_{x2} d_{y2} - b_{y2} c_{y2}) (c_{y2} d_{y2} - b_{y2} c_{y2}) (c_{y2$ $(c_{y2} d_{x2}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (b_{x1} b_{y2} - b_{x2} b_{y1}) (c_{x2} d_{y2} - a_{y1} c_{x2}) (a_{x2} c_{y2} - a_{y1} c_{y2}) (a_{x2} c_{y2} - a_{y1} c_{x2}) (a_{x2} c_{y2} - a_{y1} c_{y2}) (a_{x$ $(c_{y2} d_{x2}) + 12 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) (b_{y2} c_{x1} - a_{y1} c_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y2} - b_{y1} d_{x2}) (a_{y2} c_{x1} - a_{y1} c_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} c_{x1} - a_{y1} c_{x1}) (a_{y2} c_{y1} - a_{y1} c_{x1}) (a_{y2} c_{y1} - a_{y1} c_{x1}) (a_{y2} c_{y1} - a_{y1} c_{y1}) (a_$ $b_{x2}\,c_{y1}) + 4\,(a_{x1}\,b_{y2} - a_{y1}\,b_{x2})^3\,(a_{x1}\,c_{y1} - a_{y1}\,c_{x1})\,(b_{x1}\,c_{y1} - b_{y1}\,c_{x1})\,(b_{x1}\,d_{y2} - b_{y1}\,d_{x2}) - 12\,(a_{x1}\,b_{y1} - a_{y1}\,c_{x1})\,(a_{x1}\,a_{y2} - a_{y1}\,a_{x2}) + 12\,(a_{x1}\,a_{y1} - a_{y1}\,a_{x2})^3\,(a_{x1}\,a_{y1} - a_{y1}\,a_{x1})\,(a_{x1}\,a_{y1} - a_{y1}\,a_{x2}) + 12\,(a_{x1}\,a_{y1} - a_{y1}\,a_{x2})^3\,(a_{x1}\,a_{y1} - a_{y1}\,a_{x1})\,(a_{x1}\,a_{y1} - a_{y1}\,a_{x2})^3\,(a_{x1}\,a_{y1} - a_{y1}\,a_{x1})\,(a_{x1}\,a_{y1} - a_{y1}\,a_{x2})^3\,(a_{x1}\,a_{y1} - a_{y1}\,a_{x2})^3\,(a_{x1}\,a_{y1} - a_{y1}\,a_{x1})\,(a_{x1}\,a_{y1} - a_{y1}\,a_{x2})^3\,(a_{x1}\,a_{y1} - a_{y1}\,a_{x1})\,(a_{x1}\,a_{y1} - a_{y1}\,a_{x1})\,(a_{x1}\,a_{y1} - a_{y1}\,a_{x2})^3\,(a_{x1}\,a_{y1} - a_{y1}\,a_{x1})\,(a_{x1}\,a_{y1} - a_{y1}\,a_{x1})^3\,(a_{x1}\,a_{y1} - a_{y1}\,a_{y1})^3\,(a_{x1}\,a_{y1} - a_{y1}\,a_{y1}$ $(a_{u1} b_{x1})^2 (a_{x1} c_{u1} - a_{u1} c_{x1}) (a_{u2} b_{x1} - a_{x2} b_{u1}) (b_{x1} b_{u2} - b_{x2} b_{u1}) (c_{u2} d_{x1} - c_{x2} d_{u1}) + 12 (a_{x1} b_{u1} - a_{x2} b_{u1}) (a_{u2} b_{u1} - a_{u2} b_{u1}) (a_{u2} b_{u2} - a_{u2} b_{u1}) (a_{u2} b_{u1} - a_{u2} b_{u1}) (a_{u2} b_{u2} - a_{u2} b_{u2}) (a_{u$ $(a_{x1} \, b_{x1})^2 \, (a_{x1} \, b_{y2} - a_{y1} \, b_{x2}) \, (a_{x2} \, c_{y2} - a_{y2} \, c_{x2}) \, (b_{x1} \, c_{y1} - b_{y1} \, c_{x1}) \, (b_{x1} \, d_{y2} - b_{y1} \, d_{x2}) - 8 \, (a_{x1} \, b_{y1} - a_{y1} \, b_{y1}) \, (a_{x2} \, c_{y2} - a_{y2} \, c_{x2}) \, (a_{x2} \, c_{y2} - a_{y2} \, c_{x2}) \, (a_{x2} \, c_{y1} - a_{y1} \, c_{x1}) \, (a_{x2} \, c_{y2} - a_{y1} \, b_{x2}) - 8 \, (a_{x1} \, b_{y2} - a_{y1} \, b_{x2}) \, (a_{x2} \, c_{y2} - a_{y2} \, c_{x2}) \, (a_{x2} \, c_{y2} - a_{y2} \, c_{y2}) \, (a_{x2} \, c_{y2} - a_{y2} \, c_{x2}) \, (a_{x2} \, c_{y2} - a_{y2} \, c_{y2}) \,$ $(a_{y1} b_{x1})^3 (a_{y2} c_{x1} - a_{x2} c_{y1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x2} d_{y2} - b_{y2} d_{x2}) + 16 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{y2} c_{x1} - a_{y2} c_{y1}) (a_{y2} c_{y2} - a_{y1} c_{y2}) (a_{y2} c_{y2} - a_{y2} c_{y1}) (a_{y2} c_{y2} - a_{y1} c_{y2}) (a_{y2} c_{y2} - a_{y2} c_{y2}) + 16 (a_{y2} c_{y2} - a_{y2} c_{y1}) (a_{y2} c_{y2} - a_{y2} c_{y2}) (a_{y2} c_{y2} - a_{y2} c_{y2}$ $(a_{x2} c_{y1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) (b_{x2} c_{y2} - b_{y2} c_{x2}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{y2} b_{x1} - a_{y2} b_{x1})^2$ $(a_{x2} b_{y1}) (b_{x1} b_{y2} - b_{x2} b_{y1}) (c_{x1} d_{y2} - c_{y1} d_{x2}) + 18 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x1} c_{y2} - a_{y1} c_{x2}) (b_{y2} d_{x1} - a_{y1} b_{x1})^3 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{y2} d_{x1} - a_{y1} b_{x1})^3 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{y2} d_{x1} - a_{y1} d_{x2}) (a_{x2} d_{y2} - a_{y1} d_{x2}) (a_{y2} d_{x1} - a_{y1} d_{x2}) ($ $(b_{x2} d_{y1}) (b_{x2} c_{y2} - b_{y2} c_{x2}) - 24 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} c_{y2} - b_{y2} a_{y1}) (a_{y1} a_{y2} - a_{y1} a_{y2}) - 24 (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y1} a_{y1} - a_{y1} a_{y1})^2 (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y2} a_{y2} - a_{y2} a_{y2}) (a_{y2} a_{y2} - a_{y2} a_{y2}$ $b_{y1} c_{x2}$) $(c_{x1} d_{y2} - c_{y1} d_{x2}) - 42 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} c_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1$ $(a_{u1} d_{x2}) (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) - 18 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y2} - a_{y1} c_{y1})^2$ $(a_{u1} d_{u2}) (c_{x1} d_{y1} - c_{y1} d_{x1}) + 96 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{y2} c_{x1} - a_{x2} c_{y1}) (b_{x1} b_{y2} - a_{y1} d_{x2})$ $b_{x2}\,b_{y1})\,(b_{x1}\,c_{y2}-b_{y1}\,c_{x2})-84\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})^2\,(a_{x1}\,b_{y2}-a_{y1}\,b_{x2})\,(a_{y2}\,b_{x1}-a_{x2}\,b_{y1})\,(b_{x1}\,d_{y2}-a_{y1}\,b_{x2})$ $b_{u1} d_{x2}$) $(c_{x1} c_{y2} - c_{x2} c_{y1}) - 72 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y2} a_{y1}) (a_{y1} c_{y2} - a_{y2} c_{y2}) (a_{y2} c_{y2} - a_{y2} c_{y2}) (a_{y1} c_{y2} - a_{y2} c_{y2}) (a_{y2} c_{y2} - a_{y2} c_{y2}) (a_{y1} c_{y2} - a_{y2} c_{y2}) (a_{y2} c_{y2} - a_{y2} c_{y2}) (a_{y2$ $(a_{u1} c_{x2})^2 (c_{x2} d_{u2} - c_{u2} d_{x2}) - 72 (a_{x1} a_{u2} - a_{x2} a_{u1}) (a_{x1} b_{u1} - a_{u1} b_{x1})^2 (a_{x1} d_{u2} - a_{u1} d_{x2}) (b_{x1} d_{u1} - a_{u1} b_{u1})^2$ $b_{u1} d_{x1}$ $(b_{x2} c_{u2} - b_{u2} c_{x2}) + 48 (a_{x1} a_{u2} - a_{x2} a_{u1}) (a_{x1} b_{u1} - a_{u1} b_{x1})^2 (b_{x1} b_{u2} - b_{x2} b_{u1}) (b_{x1} c_{u1} - a_{u2} b_{u2}) (a_{x1} b_{u2} - b_{u2} b_{u1}) (b_{x2} c_{u2} - b_{u2} b_{u1}) (a_{x1} a_{u2} - a_{x2} a_{u1}) (a_{x1} b_{u1} - a_{u1} b_{x1})^2 (b_{x1} b_{u2} - b_{x2} b_{u1}) (b_{x1} c_{u1} - a_{u2} b_{u2}) (a_{x1} a_{u2} - a_{u2} a_{u1}) (a_{x2} a_{u2} - a_{u2} a_{u2}) (a_$ $b_{y1} c_{x1} (c_{y2} d_{x1} - c_{x2} d_{y1}) - 36 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} c_{x2})^2$ $(a_{y1} d_{x1}) (a_{y2} c_{x1} - a_{x2} c_{y1}) - 80 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} d_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{y1} a_{y1} - a_{y1} b_{y1})^2 (a_{y2} b_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1})^2 (a_{y2} b_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1})^2 (a_{y2} b_{y1} - a_{y1} b_{$ $b_{y1} d_{x1}$) $(c_{x1} d_{y1} - c_{y1} d_{x1}) - 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{y2} d_{x1} - a_{x2} d_{y1}) (c_{x1} d_{y1} - a_{y1} d_{y1}) (c_{x1} d_{y1} - a_{y1} d_{y1}) (a_{y2} d_{x1} - a_{x2} d_{y1}) (a_{y$ $(a_{y1}, a_{y1}) + 4(a_{x1}, a_{y2} - a_{x2}, a_{y1})(a_{x1}, b_{y1} - a_{y1}, b_{x1})^2(a_{y2}, b_{x1} - a_{x2}, b_{y1})(b_{x1}, a_{y1} - b_{y1}, a_{x1})(c_{x1}, a_{y1} - a_{y1}, a_{y1})$ $(c_{y1} d_{x1}) + 12 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{y2} d_{x1} - a_{x2} d_{y1}) +$ $6\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{y2}\,b_{x1}-a_{x2}\,b_{y1}\right)\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)\left(c_{x1}\,d_{y2}-c_{y1}\,d_{x2}\right) 12\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{3}\left(a_{x2}\,d_{y2}-a_{y2}\,d_{x2}\right)\left(b_{x1}\,b_{y2}-b_{x2}\,b_{y1}\right)\left(c_{x1}\,c_{y2}-c_{x2}\,c_{y1}\right)-12\left(a_{x1}\,a_{y2}-a_{y2}\,d_{x2}\right)\left(a_{x1}\,a_{y2}-a_{y2}\,d_{x2}\right)\left(a_{x1}\,a_{y2}-a_{y2}\,d_{x2}\right)$ $(a_{x2} a_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} d_{x1} - a_{x2} d_{y1}) - 12 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y2} - a_{y1} d_{x2}) (a_{y2} d_{x1} - a_{x2} d_{y1}) - 12 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y2} - a_{y1} d_{x2}) (a_{y2} d_{x1} - a_{y2} d_{y1}) - 12 (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y1} d_{y2} - a_{y1} d_{y2})$

 $(a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (c_{y2} d_{x1} - c_{x2} d_{y1}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{y2} b_{x1} - a_{y1} c_{x1})^2$ $(a_{x2}\,b_{y1})\,(b_{x1}\,c_{y2}-b_{y1}\,c_{x2})\,(b_{y2}\,d_{x1}-b_{x2}\,d_{y1})-12\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})^2\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})\,(a_{y2}\,d_{x1}-a_{y1}\,c_{x2})$ $(a_{x2} d_{y1}) (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) - 8 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x2} b_{y2} - a_{y2} b_{x2}) (b_{x1} c_{y2} - a_{y2} b_{x2}) (b_{x1} c_{y2} - a_{y2} b_{x2}) (a_{x2} b_{y2} - a_{y2} b_{x2}) (a_{x2$ $b_{y1} c_{x2} (c_{x1} d_{y1} - c_{y1} d_{x1}) - 12 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1}) (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{x1} d_{y2} - a_{y1} a_{y1})^2 (a_{y1} c_{y1} - a_{y1} a_{y1}) (a_{y1} c_{y1} - a_{y1} a_{y1} a_{y1}) (a_{y1} c_{y1} - a_{y1} a_{y1} a_{y1} a_{y1} a_{y1}) (a_{y1} c_{y1} a_{y1} a_{y1}$ $(b_{y1} d_{x2})^2 - 8 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (b_{x1} b_{y2} - b_{x2} b_{y1})^2 (c_{x1} d_{y1} - c_{y1} d_{x1}) +$ $8(a_{x1}b_{y1} - a_{y1}b_{x1})^{2}(a_{x1}b_{y2} - a_{y1}b_{x2})(b_{x1}b_{y2} - b_{x2}b_{y1})^{2}(c_{x1}d_{y2} - c_{y1}d_{x2}) + 12(a_{x1}a_{y2} - a_{y1}b_{x2})(a_{y1}b_{y2} - a_{y1}b_{y2})^{2}(a_{y1}b_{y2} - a_{y1}b_{y2}) + 12(a_{y1}a_{y2} - a_{y1}b_{y2})^{2}(a_{y1}b_{y2} - a_{y1}b_{y2})^{2}(a_{y1}b_{y2} - a_{y1}b_{y2}) + 12(a_{y1}a_{y2} - a_{y1}b_{y2})^{2}(a_{y1}b_{y2} - a_{y1}b_{y2})^{2}(a_{y1}a_{y2} - a_{y1}b_{y2})^{2}(a_{y1}a_{y2} - a_{y1}b_{y2})^{2}(a_{y1}a_{y2} - a_{y1}a_{y2})^{2}(a_{y1}a_{y2} - a_{y1}a_{y2})^{2}(a$ $a_{x2} a_{y1}$) $(a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} b_{x1} - a_{y2} b_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} b_{x1} - a_{y2} b_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} b_{x1} - a_{y2} b_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} b_{x1} - a_{y2} b_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} b_{x1} - a_{y2} b_{y1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} b_{x1} - a_{y2} b_{y1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} b_{x1} - a_{y2} b_{y1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} d_{y2} - a_{y1} d_{x2}) (a_{y2} d_{y2} - a_{y1} d_{y2}) (a_{y2} d_{$ $b_{y1} d_{x2}$) $-10 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{y2} c_{x1} - a_{x2} c_{y1}) (b_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{y2} c_{x1} - a_{x2} c_{y1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{y2} c_{x1} - a_{x2} c_{y1}) (a_{y2} c_{x1} - a_{y2} c_{y1}) (a_{y2} c_{y1} - a_{y2} c_{y1}) (a_{y2} c_{y2} - a_{y2} c_{y2}) (a_{y$ $(b_{y1} d_{x2}) + 8 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{x2} d_{y2} - a_{y2} d_{x2}) (c_{x1} d_{y2} - c_{y1} d_{x2}) - (c_{y1} d_{y2} - c_{y1} d_{y2}) - (c_{y1} d_{y2} - c_{y1$ $4\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{3}\left(a_{y2}\,b_{x1}-a_{x2}\,b_{y1}\right)\left(a_{x2}\,d_{y2}-a_{y2}\,d_{x2}\right)\left(c_{x1}\,d_{y2}-c_{y1}\,d_{x2}\right)-4\left(a_{x1}\,b_{y1}-a_{y2}\,b_{y1}\right)$ $(a_{y1} b_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{y2} c_{x1} - a_{x2} c_{y1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) - 16 (a_{x1} b_{y1} - a_{y2} b_{y1}) (a_{y2} c_{x1} - a_{y2} c_{y1}) (a_{y$ $(a_{y1} b_{x1})^3 (a_{x2} b_{y2} - a_{y2} b_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1}) (c_{x1} c_{y2} - c_{x2} c_{y1}) + 40 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y2} a_{y1})^2 (a_{y1} b_{y1} - a_{y2} a_{y2} a_{y1})^2 (a_{y1} b_{y1} - a_{y2} a_{y1})^2 (a_{y1} b_{y1} - a_{y2} a_{y1})^2 (a_{y1} b_{y1} - a_{y2} a_{y2} a_{y1})^2 (a_{y1} b_{y1} - a_{y2} a_{y1})^2 (a_{y1} a_{y1} - a_{y2} a_{y1})^2 (a_{y1} a_{y1} - a_{y2} a_{y2} a_{y1})^2 (a_{y1} a_{y1} - a_{y2} a_{y2} a_{y1})^2 (a_{y1} a_{y1} - a_{y2} a_{y1} a_{y1} - a_{y2} a_{y1})^2 (a_{y1} a_{y1} - a_{y2} a_{y2} a_{y1})^2 (a_{y1} a_{y1} - a_{y2} a_{y1} a_{y1} - a_{y2} a_{y1} a_{y1}$ $(a_{u1} b_{x1}) (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2})^2 - 72 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} b_{x1}) (a_{x$ $a_{y1} c_{x1}) \left(a_{x1} c_{y2} - a_{y1} c_{x2}\right)^2 \left(c_{y2} d_{x1} - c_{x2} d_{y1}\right) - 40 \left(a_{x1} a_{y2} - a_{x2} a_{y1}\right) \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right) \left(a_{x1} c_{y1} - a_{y1} b_{x1}\right) \left(a_{x1} c_{y1}$ $(a_{y1} c_{x1}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} d_{y2} - b_{y1} d_{x2})^{2} + 72 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} b_{y1}) (a_{y1} c_{y1} - a_{y1} b_{y1}) (a_{y2} b_{y1} - a_{y1} b_{y1}) (a_{y1} c_{y1} - a_{y1} b_{y1}) (a_$ $(a_{x1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (c_{y2} d_{x1} - c_{x2} d_{y1}) - 24 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (b_{x1} b_{y2} - a_{y1} b_{x2}) (b_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_$ $b_{x2}\,b_{y1})\,(b_{x1}\,c_{y1}-b_{y1}\,c_{x1})\,(b_{y2}\,d_{x1}-b_{x2}\,d_{y1})+72\,(a_{x1}\,a_{y2}-a_{x2}\,a_{y1})\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})\,(a_{x1}\,c_{y1}-a_{y1}\,b_{y1})$ $(a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (c_{x2} d_{y2} - c_{y2} d_{x2}) - 48 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{y2} c_{x1} - a_{y1} d_{x1})^2 (a_{y2} c_{y2} d_{y2}) - 48 (a_{y2} c_{y2} d_{y2} - a_{y1} d_{y2})^2 (a_{y2} c_{y2} d_{y2}) - 48 (a_{y1} d_{y1} - a_{y1} d_{y1})^2 (a_{y2} d_{y2} - a_{y1} d_{y1}) (a_{y2} d_{y2} - a_{y1} d_{y1})^2 (a_{y2} d_{y2} - a_{y1} d_{y$ $(a_{x2} c_{y1}) (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) + 28 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{y2} c_{x1} - a_{x2} c_{y1}) (a_{y2} d_{x1} - a_{y2} c_{y2}) (a_{y2} d_{x2} - a_{y2} c_{y2}) (a_{y$ $(a_{x2} d_{v1}) (b_{x1} d_{v2} - b_{v1} d_{x2}) + 24 (a_{x1} b_{v1} - a_{v1} b_{x1})^3 (a_{x1} b_{v2} - a_{v1} b_{x2}) (a_{x2} d_{v2} - a_{v2} d_{x2}) (c_{x2} d_{v2} - a_{v2} d_{x2}) (c_{x$ $(c_{u2} d_{x2}) + 24 (a_{x1} a_{u2} - a_{x2} a_{u1}) (a_{x1} b_{u1} - a_{u1} b_{x1})^2 (b_{x1} b_{u2} - b_{x2} b_{u1}) (b_{x1} c_{u2} - b_{u1} c_{x2}) (c_{x1} d_{u1} - a_{u1} b_{u2}) (c_{x1} d_{u2} - a_{u2} a_{u1}) (a_{x2} b_{u2} - a_{u2} a_{u2}) (a_{x2} b_{u1} - a_{u2} a_{u2}) (a_{x2} b_{u2} - a_{u2} a_{u2}) (a_{x$ $c_{y1} d_{x1}) - 24 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{x2} d_{y2} - b_{y2} b_{y1}) (b_{y2} c_{y1} - b_{y1} c_{y1}) (b_{y2} c_{y2} - b_{y2} b_{y1}) (b_{y2} c_{y1} - b_{y1} c_{y1}) (b_{y2} c_{y2} - b_{y2} b_{y1}) (b_{y2} c_{y1} - b_{y1} c_{y1}) (b_{y2} c_{y2} - b_{y2} b_{y1}) (b_{y2} c_{y1} - b_{y1} c_{y1}) (b_{y2} c_{y2} - b_{y2} b_{y1}) (b_{y2} c_{y1} - b_{y1} c_{y1}) (b_{y2} c_{y2} - b_{y2} b_{y1}) (b_{y2} c_{y1} - b_{y1} c_{y1}) (b_{y2} c_{y2} - b_{y2} b_{y1}) (b_{y2} c_{y1} - b_{y1} c_{y1}) (b_{y2} c_{y2} - b_{y2} b_{y1}) (b_{y2} c_{y1} - b_{y1} c_{y1}) (b_{y2} c_{y2} - b_{y2} b_{y1}) (b_{y2} c_{y1} - b_{y1} c_{y1}) (b_{y2} c_{y2} - b_{y2} b_{y1}) (b_{y2} c_{y1} - b_{y1} c_{y1}) (b_{y2} c_{y2} - b_{y2} b_{y1}) (b_{y2} c_{y2} - b_{y2} b_{y2}) (b_{y2} c_{y2} - b_{y2} b_{y2} - b_{y2$ $(b_{y2} d_{x2}) + 24 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) (c_{x1} d_{y1} - a_{y1} b_{y2}) (c_{y1} d_{y2} - a_{y2} d_{y1}) (c_{y2} d_{y2} - a_{y2} d_{y2}) (c_{y$ $(c_{y1} d_{x1}) - 24 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} b_{y2} - b_{x2} b_{y1}) (c_{x2} d_{y2} - a_{y1} d_{x2}) (a_{y1} a_{y2} - a_{y1} a_{y2}) (a_{y1} a_{y2} - a_{y1} a_{y2}) (a_{y2} a_{y1} a_{y2} - a_{y1} a_{y2}) (a_{y1} a_{y2} - a_{y1} a_{y2}$ $(c_{y2} d_{x2}) - 12 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} c_{y2} - a_{y1} d_{x2})^2$ $(b_{y1} c_{x2}) + 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (a_{x2} c_{y2} - a_{y2} c_{x2}) (b_{x1} b_{y2} - b_{x2} b_{y1}) +$ $12\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(a_{y2}\,b_{x1}-a_{x2}\,b_{y1}\right)\left(b_{x1}\,c_{y1}-b_{y1}\,c_{x1}\right)\left(b_{x1}\,d_{y1}-a_{y1}\,b_{x1}\right)$ $b_{u1} d_{x1}) - 8 (a_{x1} b_{u1} - a_{u1} b_{x1})^3 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{y2} c_{x1} - b_{x2} c_{y1}) (b_{x2} d_{y2} - b_{y2} d_{x2}) - 8 (a_{x1} b_{y1} - b_$ $(a_{u1} b_{x1})^3 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{y2} c_{x1} - b_{x2} c_{y1}) (b_{y2} d_{x1} - b_{x2} d_{y1}) - 12 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y2} a_{y1})^2 (a_{x1} b_{y1} - a_{y2} a_{y1})^2 (a_{y1} b_{y2} - a_{y2} a_{y1})^2 (a_{y1} a_{y2} - a_{y2} a_{y2} a_{y1})^2 (a_{y1} a_{y2} - a_{y2} a_{y2}$ $a_{u1}\,b_{x1})\,(b_{x1}\,c_{u1}-b_{u1}\,c_{x1})\,(b_{x1}\,d_{u1}-b_{u1}\,d_{x1})\,(b_{x1}\,d_{u2}-b_{u1}\,d_{x2})-6\,(a_{x1}\,a_{u2}-a_{x2}\,a_{u1})\,(a_{x1}\,b_{u1}-a_{x2})$ $(a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} c_{y1} - b_{y1} c_{x1}) (d_{x1} d_{y2} - d_{x2} d_{y1}) - 10 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{y2} b_{x1} - a_{y1} b_{x1} - a_{y1} b_{x1})^3 (a_{y2} b_{x1} - a_{y1} b_{x1} - a_{y1} b_{x1})^3 (a_{y2} b_{x1} - a_{y1}$ $(a_{x2} b_{y1}) (a_{y2} c_{x1} - a_{x2} c_{y1}) (d_{x1} d_{y2} - d_{x2} d_{y1}) - 8 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{y2} c_{x1} - a_{y2} b_{y1}) (a_{y2$ $a_{x2} c_{y1} (d_{x1} d_{y2} - d_{x2} d_{y1}) + 8 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{y2} d_{x1} - a_{x2} d_{y1}) (c_{x1} d_{y2} - a_{y1} d_{y1}) (c_{y1} d_{y1} - a_{y1} d_{y1}) (c_{y1}$ $c_{u1} d_{x2}$) $-24 (a_{x1} a_{u2} - a_{x2} a_{u1}) (a_{x1} b_{u1} - a_{u1} b_{x1}) (a_{x1} d_{u2} - a_{u1} d_{x2}) (a_{u2} b_{x1} - a_{x2} b_{u1}) (b_{x1} c_{u1} - a_{u2} b_{u1}) (a_{x1} b_{u2} - a_{u2} b_{u1}) (a_{x2} b_{u2} - a_{u2} b_{u2}) (a_{x2} b_{u2} - a_{u2} b_{u1}) (a_{x2} b_{u2} - a_{u2} b_{u1}) (a_{x2} b_{u2} - a_{u2} b_{u2}) (a_{x2} b_{u2} - a_{u2} b_{u1}) (a_{x2} b_{u2} - a_{u2} b_{u2}) (a_{x2}$ $b_{y1} c_{x1} (b_{x1} d_{y1} - b_{y1} d_{x1}) + 24 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} c_{y2} - a_{y1} b_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{x1} c_{y2} - a_{y1} b_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{x1} c_{y2} - a_{y1} b_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{x1} c_{y2} - a_{y1} b_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{x1} c_{y2} - a_{y1} b_{x1}) (a_{y2} b_{x1} - a_{y1} b_{x1})$ $b_{y1}\,c_{x2})\,(b_{y2}\,c_{x1}-b_{x2}\,c_{y1})-12\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})^3\,(a_{x1}\,c_{y2}-a_{y1}\,c_{x2})\,(a_{x1}\,d_{y1}-a_{y1}\,d_{x1})\,(a_{x2}\,b_{y2}-a_{y1}\,c_{x2})$ $(a_{y2} b_{x2}) + 28 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} d_{y1} - b_{y1} d_{x1}) (c_{x1} d_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_$ $(c_{y1} d_{x1}) + 48 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} c_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{x2} d_{y1}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{x2} d_{y1}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{x2} d_{y1}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{x2} d_{y1}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1}$ $(b_{y1} c_{x1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) - 12 (a_{x1} b_{y2} - a_{y1} b_{x2})^3 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (b_{x1} c_{y1} - b_{y1} c_{x1}) +$ $12\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)^{3}\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)^{2}\left(b_{x1}\,c_{y1}-b_{y1}\,c_{x1}\right)-12\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)^{3}\left(a_{x1}\,d_{y2}-a_{y1}\,b_{x2}\right)^{3}$ $(a_{y1} d_{x2})^2 (b_{x1} c_{y1} - b_{y1} c_{x1}) - 12 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x2} c_{y2} - a_{y1} d_{x2}) (a_{x1} a_{y2} - a_{y1} d_{x2}) (a_{x1} a_{y2} - a_{y1} d_{x2}) (a_{x2} a_{y2} - a_{y2} a_{y1}) (a_{x2} a_{y2} - a_{y2} a_{y2}) (a_{x2} a_{y2} - a_{y2} a_{y2} - a_{y2} a_{y2} - a_{y2} a_{y2}) (a_{x2} a_{y2} - a_{y2} a_{y2} - a_{y2} a_{y2} - a_{y2} a_{y2}) (a_{x2} a_{y2} - a_{y2} a_{y2} - a_{y2} a_{y2} - a_{y2} a_{y2}) (a_$

 $b_{y2}\,c_{x2}) - 24\,(a_{x1}\,b_{y1} - a_{y1}\,b_{x1})^2\,(a_{x1}\,d_{y1} - a_{y1}\,d_{x1})\,(a_{x2}\,c_{y2} - a_{y2}\,c_{x2})\,(b_{x1}\,b_{y2} - b_{x2}\,b_{y1})\,(b_{x1}\,c_{y1} - a_{y1}\,d_{x2})^2$ $b_{y1} c_{x1} + 36 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (c_{x1} c_{y2} - a_{y1} d_{x2}) (c_{x1}$ $(c_{x2} c_{y1}) + 72 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1}) (b_{x2} c_{y2} - a_{y1} d_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1}) (b_{x2} c_{y2} - a_{y1} d_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1}) (b_{x2} c_{y2} - a_{y1} d_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1}) (b_{x2} c_{y2} - a_{y1} d_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1}) (b_{x2} c_{y2} - a_{y1} d_{x2}) (b_{x1} d_{y1} - a_{y1} d_{x2}) (b_{x2} c_{y2} - a_{y1} d_{x2}) (b_{x1} d_{y1} - a_{y1} d_{x2}) (b_{x2} c_{y2} - a_{y1} d_{x2}) (b_{x1} d_{y1} - a_{y1} d_{x2}) (b_{x2} c_{y2} - a_{y1} d_{x2}) (b_{x2} d_{y1} - a_{y1} d_{x2}) (b_{x2} d_{x2} - a_{x2} d_{x2}) (b_{x$ $b_{y2} c_{x2}$) $-72 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} c_{y2} - a_{y1} d_{x2})^2 (b_{y1} b_{y2} - b_{y2} b_{y1}) (b_{y1} c_{y2} - a_{y2} d_{y1}) (b_{y1} c_{y2} - a_{y2} d_{y2}) (b_{y2} c_{y2} - a_{y2} d_{y2}) (b_{y2} c_{y2} - a_{y2} d_{y2}) (b_$ $b_{y1}\,c_{x2}) + (a_{x1}\,b_{y1} - a_{y1}\,b_{x1})^2\,(a_{x1}\,d_{y2} - a_{y1}\,d_{x2})^2\,(a_{x2}\,b_{y2} - a_{y2}\,b_{x2})\,(b_{x1}\,c_{y2} - b_{y1}\,c_{x2}) - 12\,(a_{x1}\,b_{y2} - a_{y2}\,b_{x2})^2\,(a_{x2}\,b_{y2} - a_{y2}\,b_{y2})^2\,(a_{x2}\,b_{y2} - a_{$ $(a_{u1} b_{u2}) (a_{x1} c_{u1} - a_{u1} c_{x1})^3 (a_{x1} d_{u2} - a_{u1} d_{x2}) (a_{x2} c_{u2} - a_{u2} c_{x2}) + 35 (a_{x1} b_{u1} - a_{u1} b_{x1})^2 (a_{x1} d_{u2} - a_{u1} d_{x2}) (a_{x2} c_{u2} - a_{u2} c_{x2}) + 35 (a_{x1} b_{u1} - a_{u1} b_{x1})^2 (a_{x1} d_{u2} - a_{u1} d_{x2}) (a_{x2} c_{u2} - a_{u2} c_{x2}) + 35 (a_{x1} b_{u1} - a_{u1} b_{x1})^2 (a_{x1} d_{u2} - a_{u1} d_{x2}) (a_{x2} c_{u2} - a_{u2} c_{x2}) + 35 (a_{x1} d_{u2} - a_{u1} d_{x2}) (a_{x2} c_{u2} - a_{u2} c_{x2}) + 35 (a_{x1} d_{u2} - a_{u1} d_{x2}) (a_{x2} d_{u2} - a_{u2} d_{x2}) + 35 (a_{x2} d_{u2} - a_{u2} d_{u2}) (a_{x2} d_{u2} - a_{u2} d_{u2}) (a_{x2} d_{u2} - a_{u2} d_{u2}) + 35 (a_{x2} d_{u2} - a_{u2} d_{u2}) (a_{x2} d_{u2} - a_{u2} d_{u2}) (a_{x2} d_{u2} - a_{u2} d_{u2}) + 35 (a_{x2} d_{u2} - a_{u2} d_{u2}) + 35 (a_{x2} d_{u2} - a_{u2} d_{u2}) (a_{x2} d_{u2} - a_{u2}$ $(a_{y1} d_{x2})^2 (a_{x2} b_{y2} - a_{y2} b_{x2}) (b_{x1} c_{y2} - b_{y1} c_{x2}) - 36 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} c_{y1} - a_{y1} b_{x2})^2 (a_{x2} b_{y2} - a_{y2} b_{x2}) (a_{x2} b_{y2} - a_{y$ $(a_{y1} c_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x2} d_{y2} - b_{y2} d_{x2}) + 12 (a_{x1} b_{y2} - a_{y1} b_{x2})^3 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2})$ $(a_{y1} d_{x2}) (b_{x1} d_{y2} - b_{y1} d_{x2}) + 16 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{y2} d_{x1} - a_{x2} d_{y1}) (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{x2} c_{y2} - a_{y1} d_{x2})$ $(b_{y2} c_{x2}) + 56 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{y2} c_{x1} - b_{x2} c_{y1}) (c_{x2} d_{y2} - c_{y2} d_{x2}) +$ $40\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{3}\left(a_{y2}\,b_{x1}-a_{x2}\,b_{y1}\right)\left(b_{x2}\,c_{y2}-b_{y2}\,c_{x2}\right)\left(c_{x1}\,d_{y2}-c_{y1}\,d_{x2}\right)+42\left(a_{x1}\,a_{y2}-a_{y2}\,b_{y2}\,a_{y2}\right)$ $(a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} d_{y1} - b_{y1} d_{x1}) (c_{x1} d_{y1} - c_{y1} d_{x1}) - 14 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{y1} d_{y1} - b_{y1} d_{x1}) (a_{y1} d_{y1} - a_{y1} d_{x1}) - 14 (a_{y1} d_{y1} - a_{y1} d_{y1}) - 14 (a_{y1} d_{y1} - a_{y1} d_{y1}) (a_{y1} d_{y1} - a_{y1} d_{y1}) - 14 (a_{y1} d_{y1} - a_{y1} d_{y1}) (a_{y1} d_{y1} - a_{y1} d_{y1}) (a_{y1} d_{y1} - a_{y1} d_{y1}) - 14 (a_{y1} d_{y1} - a_{y1} d_{y1}) (a_{y1} d_{y1}$ $(a_{u1} b_{x1})^2 (a_{x1} d_{u1} - a_{u1} d_{x1}) (a_{u2} b_{x1} - a_{x2} b_{u1}) (a_{u2} c_{x1} - a_{x2} c_{u1}) (b_{x1} d_{u1} - b_{u1} d_{x1}) - 28 (a_{x1} a_{u2} - a_{u2} c_{u1}) (a_{u2} c_{x1} - a_{u2} c_{u2}) (a_{u2} c_{u2} - a_{u2} c_{u2}) (a_{u$ $a_{x2}\,a_{y1})\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})^2\,(a_{y2}\,c_{x1}-a_{x2}\,c_{y1})\,(b_{x1}\,d_{y1}-b_{y1}\,d_{x1})^2-72\,(a_{x1}\,a_{y2}-a_{x2}\,a_{y1})\,(a_{x1}\,b_{y1}-a_{y1}\,a_{x2}\,a_{y1})\,(a_{x1}\,b_{y1}-a_{y1}\,a_{x2}\,a_{y1})\,(a_{x1}\,a_{y2}-a_{x2}\,a_{y1})\,(a_{x1}\,a_{y2}-a_{x2}\,a_{y1})\,(a_{x1}\,a_{y1}-a_{y1}\,a_{x2}\,a_{y1})\,(a_{x1}\,a_{y2}-a_{x2}\,a_{y1})\,(a_{x1}\,a_{y1}-a_{y1}\,a_{x2}\,a_{y1})\,(a_{x1}\,a_{y1}-a_{y2}\,a_{y1})\,(a_{x1}\,a_{y1}-a_{y2}\,a_{y1})\,(a_{x2}\,a_{y2}-a_{y2}\,a_{y2}-a_{y2}\,a_{y2})\,(a_{x2}\,a_{y2}-a_{y2}\,a_{y2}-a_{y2}\,a_{y2})\,(a_{x2}\,a_{y2}-a_{y2}\,a_{y2}-a_{y2}\,a_{y2}-a_{y2}\,a_{y2})\,(a_{x2}\,a_{y2}-a_{y2}\,a_{y2}-a_{y2}\,a_{y2}-a_{y2}\,a_{y2})\,(a_{x2}\,a_{y2}-a_{y2}\,a_{y2}$ $(a_{u1} b_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1}) (b_{x2} c_{y2} - b_{y2} c_{x2}) + 24 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} b_{x1}) (a_{x$ $a_{y1} c_{x1}) \left(a_{x1} c_{y2} - a_{y1} c_{x2}\right)^{3} \left(a_{y2} d_{x1} - a_{x2} d_{y1}\right) - 72 \left(a_{x1} a_{y2} - a_{x2} a_{y1}\right) \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right) \left(a_{x1} c_{y1} - a_{y1} b_{x1}\right) \left(a_{x1} c_{y1$ $(a_{u1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (c_{y2} d_{x1} - c_{x2} d_{y1}) - 24 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y2} a_{y1})$ $(a_{y1} c_{x2})^3 (b_{x1} d_{y1} - b_{y1} d_{x1}) - 24 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (b_{x2} c_{y2} - b_{y2} c_{x2}) (d_{x1} d_{y2} - a_{y2} a_{y1}) (a_{y2} c_{y2} - a_{y2} a_{y1}) (a_{y1} c_{y2} - a_{y2} a_{y1}) (a_{y2} c_{y2} - a_{y2} a_{y2}) (a_{y2} c_{y2} - a_{y2} a_{y2} a_{y2}) (a_{y2} c_{y2} - a_{y2} a_{y2} a_{y2}) (a_{y2} c_{y2} - a_{y2} a_{y2} a_{y2} a_{y2}) (a_{y2}$ $d_{x2} d_{y1}) + 72 \left(a_{x1} a_{y2} - a_{x2} a_{y1}\right) \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right) \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right) \left(b_{x1} b_{y2} - a_{y2} a_{y1}\right) \left(a_{x1} d_{y2} - a_{y2} a_{y2}\right) \left(a_{x1} d_{y2}$ $b_{x2}\,b_{y1})\,(b_{x1}\,c_{y2}-b_{y1}\,c_{x2})-24\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})^3\,(a_{x1}\,c_{y2}-a_{y1}\,c_{x2})\,(a_{y2}\,d_{x1}-a_{x2}\,d_{y1})\,(b_{x2}\,d_{y2}-a_{y1}\,c_{x2})$ $(b_{y2} d_{x2}) + 24 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (c_{y2} d_{x1} - a_{y1} b_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (c_{y2} d_{x1} - a_{y1} b_{x2}) (a_{y2} d_{x2} - a_{y1} d_{x2}) (a_{y$ $(a_{x2} d_{y1}) + 48 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x2} d_{y2} - b_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x2} d_{y2} - a_{y1} d_{x2}) (a_{x2} d_{y2} - a_{y2} d_{y1}) (a_{x2} d_{y2} - a_{y2} d_{y2}) (a_$ $b_{y2} d_{x2}$)+96 $(a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} b_{x1} - a_{y2} b_{x2}) (a_{x2} b_{x2} - a_{y1} b_{x2}) (a_{x2}$ $(a_{x2} b_{y1}) (b_{x1} d_{y1} - b_{y1} d_{x1}) + 48 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{y2} b_{x1} - a_{y2} b_{x2})$ $(a_{x2} b_{y1}) (d_{x1} d_{y2} - d_{x2} d_{y1}) - 24 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (c_{x1} d_{y2} - a_{y1} c_{y1} c_{y2})^3 (c_{x1} d_{y2} - a_{y1} c_{y2})^3 (c_{x1} d_{y2} (c_{y1} d_{x2}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x2} c_{y2} - a_{y2} c_{x2}) (b_{x1} b_{y2} - b_{x2} b_{y1}) +$ $36 \left(a_{x1} \, b_{y1} - a_{y1} \, b_{x1}\right)^2 \left(a_{x1} \, c_{y2} - a_{y1} \, c_{x2}\right) \left(a_{x1} \, d_{y1} - a_{y1} \, d_{x1}\right) \left(a_{y2} \, b_{x1} - a_{x2} \, b_{y1}\right) \left(b_{y2} \, d_{x1} - b_{x2} \, d_{y1}\right) - a_{y1} \, d_{y2} \, d_{y1} + a_{y2} \, d_{y2} + a_{y2} \, d_{y1} + a_{y2} \, d_{y1} + a_{y2} \, d_{y2} + a_{y2} \, d_{y1} + a_{y2} \, d_{y2} + a_$ $36\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)\left(a_{y2}\,b_{x1}-a_{x2}\,b_{y1}\right)\left(c_{y2}\,d_{x1}-c_{x2}\,d_{y1}\right) 24 \left(a_{x1} \, b_{u1} - a_{u1} \, b_{x1}\right)^3 \left(a_{x1} \, d_{y1} - a_{y1} \, d_{x1}\right) \left(a_{x2} \, b_{y2} - a_{y2} \, b_{x2}\right) \left(c_{y2} \, d_{x1} - c_{x2} \, d_{y1}\right) + 24 \left(a_{x1} \, a_{y2} - a_{y2} \, b_{y2}\right) + 24 \left(a_{x1} \, a_{y2} - a_{y2} \, b_{y2}\right) \left(a_{y2} \, d_{y1} - a_{y2} \, d_{y1}\right) + 24 \left(a_{y1} \, a_{y2} - a_{y2} \, b_{y2}\right) + 24 \left(a_{y1} \, a_{y2} - a_{y2} \, b_{y2}\right) \left(a_{y2} \, d_{y1} - a_{y2} \, d_{y1}\right) + 24 \left(a_{y1} \, a_{y2} - a_{y2} \, b_{y2}\right) + 24 \left(a_{y1} \, a_{y2} - a_{y2} \, b_{y2}\right) \left(a_{y2} \, d_{y1} - a_{y2} \, d_{y1}\right) + 24 \left(a_{y1} \, a_{y2} - a_{y2} \, b_{y2}\right) + 24 \left(a_{y1} \, a_{y2} - a_{y2} \, b_{y2}\right) \left(a_{y2} \, d_{y1} - a_{y2} \, d_{y1}\right) + 24 \left(a_{y1} \, a_{y2} - a_{y2} \, b_{y2}\right) + 24 \left(a_{y1} \, a_{y2} - a_{y2} \, b_{y2}\right) \left(a_{y2} \, d_{y1} - a_{y2} \, d_{y1}\right) + 24 \left(a_{y1} \, a_{y2} - a_{y2} \, b_{y2}\right) + 24 \left(a_{y1} \, a_{y$ $(a_{x2} a_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (b_{x1} d_{y2} - b_{y1} d_{x2}) + 28 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} c_{x2})^3 (a_{y1} a_{y2} - a_{y1} a_{y2}) + 28 (a_{y1} a_{y2} - a_{y1} a_{y2} a_{y2}) + 28 (a_{y1} a_{y2} - a_{y1} a_{y2} a$ $(a_{u1} b_{u2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} b_{y2} - b_{x2} b_{y1})^2 + 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{y2})^2$ $(a_{u1} b_{u2})^2 (b_{u1} b_{u2} - b_{u2} b_{u1}) (d_{u1} d_{u2} - d_{u2} d_{u1}) - 8 (a_{u1} b_{u1} - a_{u1} b_{u1})^2 (a_{u1} b_{u2} - a_{u1} b_{u2})^2 (b_{u1} d_{u2} - a_{u2} b_{u2})^2 (b_{u1} d_{u2} - a_{u2} b_{u2})^2 (b_{u1} d_{u2} - a_{u2} b_{u2})^2 (b_{u2} d_{u2} - a_{u2} b_{u2})^2 (b_{u2} d_{u2} - a_{u2} b_{u2} - a_{u2}$ $b_{y1} d_{x2}$) $(b_{y2} d_{x1} - b_{x2} d_{y1}) + 16 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x1} b_{y2} - a_{y1} b_{x2}) (b_{y2} d_{x1} - b_{x2} d_{y1}) (b_{x2} d_{y2} - a_{y1} b_{x2}) (a_{y2} d_{y1} - a_{y1} b_{y2}) (a_{y2} d_{y2} - a_{y2} b_{y2}) (a_{y2} d_{y2} - a_{y2} b_{y2}) (a_{y2} d_{y2} - a_{y2} b_{y2}) (a_{$ $(b_{y2} d_{x2}) + 24 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (a_{x2} d_{y2} - a_{y2} d_{x2}) - (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (a_{x2} d_{y2} - a_{y2} d_{x2}) - (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (a_{x2} d_{y2} - a_{y2} d_{x2}) - (a_{x1} c_{y2} - a_{y2} d_{x2}) - (a_{x1} c_{y2} - a_{y2} d_{x2}) - (a_{x1} c_{y2} - a_{y2} d_{x2}) - (a_{x2} c_{y2} - a_{y$ $72\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)^{2}\left(c_{x2}\,d_{y2}-c_{y2}\,d_{x2}\right)+$ $24\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)^{3}\left(c_{x1}\,d_{y2}-c_{y1}\,d_{x2}\right)+48\left(a_{x1}\,a_{y2}-a_{y1}\,c_{x2}\right)^{3}$ $(a_{x2} a_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} d_{y1} - b_{y1} d_{x1}) - 48 (a_{x1} a_{y2} - b_{y2} a_{y1}) (a_{y1} c_{y1} - a_{y1} c_{y1})^2 (a_{y1} c_{y2} - a_{y1} c_{y2}) (a_$ $(a_{x2} a_{y1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (b_{x1} c_{y1} - b_{y1} c_{x1})^{2} + 48 (a_{x1} a_{y2} - a_{y1} c_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x2})^{2} + 48 (a_{x1} a_{y2} - a_{y1} c_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x2}) (a_{x1} c_{y2} - a_{y1} c_$ $(a_{x2} a_{y1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} c_{y1} - b_{y1} c_{x1})^{2} - 48 (a_{x1} a_{y2} - a_{y1} c_{x2}) (a_{x2} a_{y1} a_{y2} - a_{y2} a_{y1} a_{x2}) (a_{x2} a_{y2} a_{y2} a_{y1} a_{x2}) (a_{x2} a_{y2} a_{y$ $(a_{x2} a_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) + 72 (a_{x1} a_{y2} - b_{y1} d_{x2}) + 72 (a_{x1$ $(a_{x1} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) (c_{x1} d_{y2} - b_{y1} c_{y2}) (c_{x1} d_{y$

 $c_{y1}\,d_{x2}) + 72\left(a_{x1}\,b_{y1} - a_{y1}\,b_{x1}\right)\left(a_{x1}\,c_{y1} - a_{y1}\,c_{x1}\right)\left(a_{x1}\,c_{y2} - a_{y1}\,c_{x2}\right)\left(a_{x1}\,d_{y2} - a_{y1}\,d_{x2}\right)\left(a_{y2}\,b_{x1} - a_{x2}\,b_{y1}\right)\left(b_{y2}\,c_{x1} - b_{x2}\,c_{y1}\right) - 36\left(a_{x1}\,b_{y1} - a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,c_{y1} - a_{y1}\,c_{x1}\right)^{2}\left(a_{x2}\,c_{y2} - a_{y2}\,c_{x2}\right)\left(b_{x2}\,d_{y2} - b_{y2}\,d_{x2}\right) - 72\left(a_{x1}\,b_{y1} - a_{y1}\,b_{x1}\right)\left(a_{x1}\,b_{y2} - a_{y1}\,b_{x2}\right)\left(a_{x1}\,c_{y1} - a_{y1}\,c_{x1}\right)\left(a_{x1}\,c_{y2} - a_{y1}\,c_{x2}\right)\left(a_{y2}\,b_{x1} - a_{x2}\,b_{y1}\right)\left(c_{x1}\,d_{y1} - c_{y1}\,d_{x1}\right) - 72\left(a_{x1}\,a_{y2} - a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1} - a_{y1}\,b_{x1}\right)\left(a_{x1}\,c_{y1} - a_{y1}\,c_{x1}\right)\left(a_{x1}\,d_{y1} - a_{y1}\,c_{x1}\right)\left(a_{x1}\,d_{y1} - a_{y1}\,c_{x1}\right)\left(a_{x1}\,d_{y1} - a_{y1}\,c_{x1}\right)^{2}\left(a_{x2}\,c_{y2} - a_{y2}\,c_{x2}\right)\left(b_{y2}\,d_{x1} - b_{x2}\,d_{y1}\right) + 72\left(a_{x1}\,b_{y1} - a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,c_{y1} - a_{y1}\,c_{x1}\right)^{2}\left(a_{x2}\,c_{y2} - a_{y2}\,c_{x2}\right)\left(b_{y2}\,d_{x1} - b_{x2}\,d_{y1}\right) + 72\left(a_{x1}\,b_{y1} - a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,c_{y1} - a_{y1}\,c_{x1}\right)^{2}\left(a_{x2}\,c_{y2} - a_{y2}\,c_{x2}\right)\left(b_{y2}\,d_{x1} - b_{x2}\,d_{y1}\right)$

 $c_7 = -60 \left(a_{x1} \, a_{y2} - a_{x2} \, a_{y1} \right)^2 \left(a_{x1} \, c_{y2} - a_{y1} \, c_{x2} \right) \left(a_{x1} \, d_{y1} - a_{y1} \, d_{x1} \right)^3 - 60 \left(a_{x1} \, a_{y2} - a_{x2} \, a_{y1} \right) \left(a_{x1} \, b_{y2} - a_{y2} \, a_{y1} \right)^2 + 2 \left(a_{x1} \, a_{y2} - a_{y2} \, a_{y1} \right)^2 + 2 \left(a_{x1} \, a_{y2} - a_{y2} \, a_{y1} \right)^2 + 2 \left(a_{x1} \, a_{y2} - a_{y2} \, a_{y1} \right)^2 + 2 \left(a_{x1} \, a_{y2} - a_{y2} \, a_{y1} \right)^2 + 2 \left(a_{x1} \, a_{y2} - a_{y2} \, a_{y1} \right)^2 + 2 \left(a_{x1} \, a_{y2} - a_{y2} \, a_{y1} \right)^2 + 2 \left(a_{x1} \, a_{y2} - a_{y2} \, a_{y1} \right)^2 + 2 \left(a_{x1} \, a_{y2} - a_{y2} \, a_{y1} \right)^2 + 2 \left(a_{x1} \, a_{y2} - a_{y2} \, a_{y1} \right)^2 + 2 \left(a_{x1} \, a_{y2} - a_{y2} \, a_{y1} \right)^2 + 2 \left(a_{x1} \, a_{y2} - a_{y2} \, a_{y1} \right)^2 + 2 \left(a_{x1} \, a_{y2} - a_{y2} \, a_{y1} \right)^2 + 2 \left(a_{x1} \, a_{y2} - a_{y2} \, a_{y1} \right)^2 + 2 \left(a_{x1} \, a_{y2} - a_{y2} \, a_{y1} \right)^2 + 2 \left(a_{x1} \, a_{y2} - a_{y2} \, a_{y1} \right)^2 + 2 \left(a_{x1} \, a_{y2} - a_{y2} \, a_{y1} \right)^2 + 2 \left(a_{x1} \, a_{y2} - a_{y2} \, a_{y1} \right)^2 + 2 \left(a_{x1} \, a_{y2} - a_{y2} \, a_{y2} \right)^2 + 2 \left(a_{x1} \, a_{y2} - a_{y$ $(a_{u1} b_{u2})^2 (a_{u1} d_{u1} - a_{u1} d_{u1})^3 + 180 (a_{u1} a_{u2} - a_{u2} a_{u1})^2 (a_{u1} c_{u2} - a_{u1} c_{u2}) (a_{u1} d_{u1} - a_{u1} d_{u1})^2 (a_{u1} d_{u2} - a_{u2} a_{u1})^2 (a_{u1} c_{u2} - a_{u1} c_{u2}) (a_{u1} d_{u1} - a_{u1} d_{u1})^2 (a_{u1} d_{u2} - a_{u2} a_{u1})^2 (a_{u2} - a_{u2} a_{u1})^2 (a_{u2} - a_{u2} a_{u1})^2 (a_{u2} - a_{u2} a_{u2}) (a_{u2} - a_{u2} a_{u1})^2 (a_{u2} - a_{u2} a_{u2}) (a_{u2} - a_{u2} a_{u$ $a_{y1} d_{x2}$) + 180 $(a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) +$ $180\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)^{2}\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)^{2}+60\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)^{2}$ $(a_{u1} b_{u2})^3 (a_{u1} c_{u2} - a_{u1} c_{u2}) (a_{u1} d_{u1} - a_{u1} d_{u1})^2 - 180 (a_{u1} a_{u2} - a_{u2} a_{u1})^2 (a_{u1} c_{u2} - a_{u1} c_{u2}) (a_{u1} d_{u1} - a_{u1} d_{u1})^2 - 180 (a_{u1} a_{u2} - a_{u2} a_{u1})^2 (a_{u1} c_{u2} - a_{u1} c_{u2}) (a_{u1} d_{u1} - a_{u1} d_{u1})^2 - 180 (a_{u1} a_{u2} - a_{u2} a_{u1})^2 (a_{u1} c_{u2} - a_{u1} c_{u2}) (a_{u1} d_{u1} - a_{u1} d_{u1})^2 - 180 (a_{u1} a_{u2} - a_{u2} a_{u1})^2 (a_{u1} c_{u2} - a_{u1} c_{u2}) (a_{u1} d_{u1} - a_{u1} d_{u1})^2 - 180 (a_{u1} a_{u2} - a_{u2} a_{u1})^2 (a_{u1} c_{u2} - a_{u1} c_{u2}) (a_{u1} d_{u1} - a_{u1} d_{u1})^2 - 180 (a_{u1} a_{u2} - a_{u2} a_{u1})^2 (a_{u1} c_{u2} - a_{u1} c_{u2}) (a_{u1} d_{u1} - a_{u1} d_{u1})^2 - 180 (a_{u1} a_{u2} - a_{u2} a_{u1})^2 (a_{u1} c_{u2} - a_{u1} c_{u2}) (a_{u1} d_{u1} - a_{u1} d_{u1})^2 - 180 (a_{u1} a_{u2} - a_{u2} a_{u1})^2 (a_{u2} c_{u2} - a_{u1} c_{u2}) (a_{u1} d_{u1} - a_{u1} d_{u1})^2 - 180 (a_{u1} a_{u2} - a_{u2} a_{u1})^2 (a_{u2} c_{u2} - a_{u1} c_{u2}) (a_{u1} d_{u1} - a_{u1} d_{u1})^2 - 180 (a_{u1} a_{u2} - a_{u2} a_{u1})^2 (a_{u2} c_{u2} - a_{u1} c_{u2}) (a_{u2} c_{u2} - a_{u2} a_{u2}) (a_{u2$ $a_{y1} d_{x1}) \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right)^2 - 180 \left(a_{x1} a_{y2} - a_{x2} a_{y1}\right) \left(a_{x1} b_{y2} - a_{y1} b_{x2}\right)^2 \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right) \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right)^2 + 180 \left(a_{x1} a_{y2} - a_{x2} a_{y1}\right) \left(a_{x1} b_{y2} - a_{y1} b_{x2}\right)^2 \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right) \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right)^2 + 180 \left(a_{x1} a_{y2} - a_{x2} a_{y1}\right) \left(a_{x1} b_{y2} - a_{y1} b_{x2}\right)^2 \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right) \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right)^2 + 180 \left(a_{x1} a_{y2} - a_{y1} a_{y2}\right)^2 + 180 \left(a_{x1} a_{y2} - a_{y1} a_{y2}\right)^2 \left(a_{x1} a_{y2} - a_{y1} a_{y2}\right)^2 + 180 \left$ $(a_{v1} d_{v2})^2 - 360 (a_{x1} a_{v2} - a_{x2} a_{v1}) (a_{x1} b_{v2} - a_{v1} b_{x2}) (a_{x1} c_{v2} - a_{v1} c_{x2})^2 (a_{x1} d_{v1} - a_{v1} d_{x1}) (a_{x1} d_{v2} - a_{v1} d_{x2})^2$ $a_{v1} d_{x2}$) $-30 (a_{x1} a_{v2} - a_{x2} a_{v1}) (a_{x1} c_{v2} - a_{v1} c_{x2})^4 (a_{x1} d_{v1} - a_{v1} d_{x1}) - 120 (a_{x1} b_{v2} - a_{v1} b_{x2})^3 (a_{x1} c_{v2} - a_{v1} c_{x2})^4 (a_{x1} d_{v1} - a_{v1} d_{x1}) - 120 (a_{x1} b_{v2} - a_{v1} b_{x2})^3 (a_{x1} c_{v2} - a_{v1} c_{x2})^4 (a_{x1} d_{v1} - a_{v1} d_{x1}) - 120 (a_{x1} d_{v2} - a_{v1} d_{x2})^3 (a_{x1} c_{v2} - a_{v1} d_{x2})^4 (a_{x1} d_{v1} - a_{v1} d_{x1}) - 120 (a_{x1} d_{v2} - a_{v1} d_{x2})^3 (a_{x1} d_{v2} - a_{v1} d_{x2})^4 (a_{x1} d_{v1} - a_{v1} d_{x1}) - 120 (a_{x1} d_{v2} - a_{v1} d_{x2})^3 (a_{x1} d_{v2} - a_{v1} d_{x2})^4 (a_{x1} d_{v1} - a_{v1} d_{x1}) - 120 (a_{x1} d_{v2} - a_{v1} d_{x2})^3 (a_{x1} d_{v2} - a_{v1} d_{x2})^4 (a_{x1} d_{v1} - a_{v1} d_{x1}) - 120 (a_{x1} d_{v2} - a_{v1} d_{x2})^3 (a_{x1} d_{v2} - a_{v1} d_{x2})^3 (a_{x1} d_{v2} - a_{v1} d_{x2})^4 (a_{x1} d_{v1} - a_{v1} d$ $(a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) - 60 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (a_{x1} d_{y1} - a_{y1} c_{x2})^2$ $(a_{y1} d_{x1}) + 60 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^3 + 60 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y2} - a_{y1} a_{y2})^3 + 60 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y2} - a_{y1} a_{y2})^3 + 60 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y2} - a_{y1} a_{y2})^3 + 60 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y2} - a_{y1} a_{y2})^3 + 60 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y2} - a_{y1} a_{y2})^3 + 60 (a_$ $(a_{x1} b_{x2})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^3 + 180 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2$ $(a_{x1} d_{x2})^2 + 30 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^4 (a_{x1} d_{y2} - a_{y1} d_{x2}) + 60 (a_{x1} b_{y2} - a_{y1} b_{x2})^3 (a_{x1} c_{y2} - a_{y1} c_{x2})^4 (a_{y1} d_{y2} - a_{y1} d_{y2})^3 + 60 (a_{y1} d_{y2} - a_{y1} d_{y2})^3 (a_{y1} d$ $(a_{x1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 + 60 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (a_{x1} d_{y2} - a_{y1} d_{x2}) +$ $6\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)^{5}-12\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{y2}\,b_{x1}-a_{x2}\,b_{y1}\right)^{2}\left(b_{x1}\,c_{y2}-a_{y1}\,b_{x2}\right)^{2}$ $(b_{y1} c_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} b_{y2} - b_{x2} b_{y1})^2 (b_{x1} d_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{y2} b_{y1}) (a_{y2} b_{y1} - a_{y1} b_{y1})^2 (a_{y2} b_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1})^2 (a_{y2} b_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1})^2 (a_{y2} b_{y1} - a_{y1} b_{y1} - a_$ $(b_{y1} d_{x1}) + 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1})^2 (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x1} d_{y2} - b_{y1} d_{x2}) +$ $12\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{y2}\,b_{x1}-a_{x2}\,b_{y1}\right)\left(b_{x1}\,b_{y2}-b_{x2}\,b_{y1}\right)^{2}\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)+12\left(a_{x1}\,b_{y1}-a_{y2}\,b_{y1}\right)^{2}\left(a_{y2}\,b_{y1}-a$ $(a_{u1} b_{x1})^2 (a_{u2} b_{x1} - a_{x2} b_{u1}) (b_{x1} b_{u2} - b_{x2} b_{u1}) (b_{x1} c_{u2} - b_{u1} c_{x2})^2 + 4 (a_{x1} b_{u1} - a_{u1} b_{x1})^2 (b_{x1} b_{u2} - b_{u2} b_{u1}) (b_{x1} c_{u2} - b_{u1} c_{x2})^2 + 4 (a_{x1} b_{u1} - a_{u1} b_{x1})^2 (b_{x1} b_{u2} - b_{u2} b_{u1}) (b_{x1} c_{u2} - b_{u1} c_{x2})^2 + 4 (a_{x1} b_{u1} - a_{u1} b_{x1})^2 (b_{x1} b_{u2} - b_{u2} b_{u1}) (b_{x1} c_{u2} - b_{u1} c_{x2})^2 + 4 (a_{x1} b_{u1} - a_{u1} b_{x1})^2 (b_{x1} b_{u2} - b_{u2} b_{u1}) (b_{x1} c_{u2} - b_{u1} c_{x2})^2 + 4 (a_{x1} b_{u1} - a_{u1} b_{x1})^2 (b_{x1} b_{u2} - b_{u2} b_{u1}) (b_{x1} c_{u2} - b_{u1} c_{x2})^2 + 4 (a_{x1} b_{u1} - a_{u1} b_{x1})^2 (b_{x1} b_{u2} - b_{u2} b_{u1}) (b_{x1} c_{u2} - b_{u1} c_{x2})^2 + 4 (a_{x1} b_{u1} - a_{u1} b_{x1})^2 (b_{x1} b_{u2} - b_{u2} b_{u1}) (b_{x1} c_{u2} - b_{u1} c_{u2}) (b_{x1} c_{u2} - b_{u1} c_{u2})^2 + 4 (a_{x1} b_{u1} - a_{u1} b_{u1})^2 (b_{x1} c_{u2} - b_{u2} c_{u2})^2 + 4 (a_{x1} b_{u1} - a_{u1} b_{u1})^2 (b_{x1} c_{u2} - b_{u2} c_{u2})^2 + 4 (a_{x1} b_{u1} - a_{u2} b_{u1})^2 (b_{x1} c_{u2} - b_{u2} c_{u2})^2 + 4 (a_{x1} b_{u2} - a_{u2} b_{u1})^2 (b_{x1} c_{u2} - b_{u2} c_{u2})^2 + 4 (a_{x1} b_{u2} - a_{u2} b_{u2})^2 (b_{x1} c_{u2} - b_{u2} c_{u2})^2 + 4 (a_{x1} b_{u2} - a_{u2} b_{u2})^2 (b_{x1} c_{u2} - b_{u2} c_{u2})^2 + 4 (a_{x1} b_{u2} - a_{u2} b_{u2})^2 (b_{x1} c_{u2} - b_{u2} c_{u2})^2 + 4 (a_{x1} b_{u2} - a_{u2} b_{u2} c_{u2} c_{u2})^2 + 4 (a_{x1} b_{u2} - a_{u2} b_{u2} c_{u2} c$ $(b_{x2} b_{y1})^3 (b_{x1} c_{y2} - b_{y1} c_{x2}) + 144 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} c_{y1} - a_{y1} b_{y2})^2 (a_{y1} c_{y1} - a_{y1} b_{y2})^2 (a_{y1} c_{y1} - a_{y1} b_{y2})^2 (a_{y1} c_{y2} - a_{y1} b_{y2})^2 (a_{y1} c_{y1} - a_{$ $(a_{u1} c_{x1}) (d_{x1} d_{u2} - d_{x2} d_{u1}) + 144 (a_{x1} a_{u2} - a_{x2} a_{u1})^2 (a_{x1} b_{u1} - a_{u1} b_{x1}) (a_{x1} c_{u1} - a_{u1} c_{x1}) (a_{x1} c_{u2} - a_{u2} a_{u1})^2 (a_{x1} b_{u1} - a_{u1} b_{x1}) (a_{x1} c_{u1} - a_{u1} c_{x1}) (a_{x1} c_{u2} - a_{u2} a_{u1})^2 (a_{x1} b_{u1} - a_{u1} b_{x1}) (a_{x1} c_{u1} - a_{u1} c_{x1}) (a_{x1} c_{u2} - a_{u2} a_{u1})^2 (a_{x1} b_{u1} - a_{u1} b_{x1}) (a_{x1} c_{u1} - a_{u1} c_{x1}) (a_{x1} c_{u2} - a_{u2} a_{u1})^2 (a_{x1} b_{u1} - a_{u1} b_{x1}) (a_{x1} c_{u1} - a_{u1} c_{x1}) (a_{x1} c_{u2} - a_{u2} a_{u1})^2 (a_{x1} b_{u1} - a_{u1} b_{x1}) (a_{x1} c_{u1} - a_{u1} c_{x1}) (a_{x1} c_{u2} - a_{u2} a_{u1})^2 (a_{x1} b_{u1} - a_{u1} b_{x1}) (a_{x1} c_{u1} - a_{u1} c_{x1}) (a_{x1} c_{u2} - a_{u2} a_{u1})^2 (a_{x1} b_{u1} - a_{u1} b_{x1}) (a_{x1} c_{u1} - a_{u1} c_{x1}) (a_{x1} c_{u2} - a_{u2} a_{u1})^2 (a_{x1} b_{u1} - a_{u1} b_{x1}) (a_{x1} c_{u1} - a_{u1} c_{x1}) (a_{x1} c_{u2} - a_{u2} a_{u1})^2 (a_{x1} b_{u1} - a_{u1} b_{x1}) (a_{x1} c_{u1} - a_{u1} c_{u1}) (a_{x1} c_{u2} - a_{u2} a_{u1})^2 (a_{x1} b_{u1} - a_{u1} b_{u1}) (a_{x1} c_{u1} - a_{u1} c_{u1}) (a_{x1} c_{u2} - a_{u2} a_{u1})^2 (a_{x1} b_{u1} - a_{u1} b_{u1}) (a_{x1} c_{u2} - a_{u2} a_{u1}) (a_{x1} c_{u2} - a_{u2} a_{u1})^2 (a_{x1} c_{u2} - a_{u2} a_{u1}) (a_{x1} c_{u2} - a_{u2} a_{u2}) (a_{x2} c_{u$ $a_{y1} c_{x2} (d_{x1} d_{y2} - d_{x2} d_{y1}) - 12 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (b_{x1} c_{y1} - a_{y1} d_{x2})^2 (a_{x1} d_{y2} - a_{y1}$ $(b_{y1} c_{x1}) - 12 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (b_{x1} c_{y1} - b_{y1} c_{x1}) +$ $96\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)^{2}\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(b_{x1}\,c_{y1}-b_{y1}\,c_{x1}\right)+$ $96\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)^{2}\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(b_{x1}\,c_{y1}-b_{y1}\,c_{x1}\right) 12\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)^{2}\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)^{2}\left(b_{x1}\,c_{y1}-b_{y1}\,c_{x1}\right)-12\left(a_{x1}\,a_{y2}-a_{y2}\,a_{y1}\right)^{2}$ $(a_{x1} a_{y1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (b_{x1} c_{y1} - b_{y1} c_{x1}) - 18 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} a_{x1}) - 18 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} a_{x1}) - 18 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} a_{x1}) - 18 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y2} - a_{y1} a_{x2}) - 18 (a_{x1} a_{y2} - a_{y1} a_{x2}) (a_{x1} a_{y1} - a_{y1} a_{x1}) - 18 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{x2}) (a_{x1} a_$ $(a_{u1} b_{u1}) (a_{x1} b_{u2} - a_{u1} b_{x2})^2 (b_{x1} d_{u2} - b_{u1} d_{x2})^2 - 18 (a_{x1} a_{u2} - a_{x2} a_{u1})^2 (a_{x1} b_{u1} - a_{u1} b_{x1}) (a_{x1} c_{u2} - a_{u2} a_{u1})^2 (a_{x1} b_{u2} - a_{u1} b_{x2})^2 - 18 (a_{x1} a_{u2} - a_{x2} a_{u1})^2 (a_{x1} b_{u1} - a_{u1} b_{x1}) (a_{x1} c_{u2} - a_{u2} a_{u1})^2 - 18 (a_{x1} a_{u2} - a_{u2} a_{u2})^2 - 18 (a_{x1} a_{u2} - a_{u2} a_{u2})^2$ $a_{y1} c_{x2}) (b_{x1} d_{y2} - b_{y1} d_{x2})^{2} + 6 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^{2} (a_{x1} c_{y1} - a_{y1} c_{x1})^{2} (c_{x1} d_{y2} - a_{y1} b_{x2})^{2} (a_{x1} c_{y1} - a_{y1} c_{x1})^{2} (c_{x1} d_{y2} - a_{y1} b_{x2})^{2} (a_{x1} c_{y1} - a_{y1} c_{x1})^{2} (c_{x1} d_{y2} - a_{y1} b_{x2})^{2} (a_{x1} c_{y1} - a_{y1} c_{x1})^{2} (a_{x1} c_{y1$ $(c_{y1} d_{x2}) + 6 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (c_{x1} d_{y2} - c_{y1} d_{x2}) +$ $36\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)^{2}\left(b_{x1}\,d_{y1}-b_{y1}\,d_{x1}\right)\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)+$ $36\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)^{2}\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)\left(b_{x1}\,d_{y1}-b_{y1}\,d_{x1}\right)\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right) 18\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)^{2}\left(b_{x1}\,d_{y1}-b_{y1}\,d_{x1}\right)^{2}-18\left(a_{x1}\,a_{y2}-a_{y1}\,b_{x2}\right)^{2}$ $(a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1})^2 - 6 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y2} - a_{y1} a_{y2}) (a_{y1} a_{y1} - a_{y1} a_{y2}) (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y1} a_{y2} - a_{y2} a_{y2}) (a_{y1} a_{y2} - a_{y2} a_{y2}) (a_{y1} a_{y2} - a_{y2} a_{y2}) (a_{y2} a_{y2} - a_{y2} a_{y2}) (a_{$

 $(a_{y1} b_{x2})^2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (c_{x1} d_{y1} - c_{y1} d_{x1}) - 6 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x1})^2 (a_{x1} c_{y1} - a$ $(a_{u1} c_{x2}) (c_{x1} d_{y1} - c_{y1} d_{x1}) - 24 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1}) (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{x1} c_{y2} - a_{y1} b_{y1}) (b_{y1} c_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1}) (b_{y$ $b_{y1} c_{x2}$) $(b_{x1} d_{y1} - b_{y1} d_{x1}) + 12 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^3 (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x1} d_{y1} - a_{y1} b_{x2})^3$ $b_{u1} d_{x1}$) +72 $(a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (b_{x1} c_{y2} - a_{y1} c_{x2}) (b_{x1}$ $b_{y1} c_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1}) - 12 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (b_{x1} c_{y1} - b_{y1} c_{x1}) (c_{x1} c_{y2} - a_{y2} a_{y1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{y1} c_{y1} - a_{y1} c_{y1} c_{y1})^2 (a_{x1} c_{y1} - a_{y1} c_{y1} c_{y1}$ $(c_{x2} c_{y1}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1})^2 (c_{x1} c_{y2} - c_{x2} c_{y1}) +$ $8\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)^{3}\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{2}\left(c_{x1}\,c_{y2}-c_{x2}\,c_{y1}\right)+24\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y2}-a_{y1}\,a_{x2}\,a_{y1}\right)$ $(a_{x1} \, c_{y1} - a_{y1} \, c_{x1})^2 \, (a_{x1} \, c_{y2} - a_{y1} \, c_{x2}) \, (c_{x1} \, c_{y2} - c_{x2} \, c_{y1}) + 24 \, (a_{x1} \, a_{y2} - a_{x2} \, a_{y1})^2 \, (a_{x1} \, b_{y1} - a_{y2} \, c_{y2})^2 \, (a_{y1} \, c_{y2} - a_{y1} \, c_{y2})^2 \, (a_$ $(a_{y1} b_{x1}) (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x1} d_{y2} - b_{y1} d_{x2}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1}$ $(a_{y1} b_{x2})^3 (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x1} d_{y2} - b_{y1} d_{x2}) - 72 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y2} a_{y1}) (a_{y1} b_{y2} - a_{y1} b_{y1}) (a_{y2} b_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y1} b_{y2} - a_{y1} b_{y1}) (a_{y1} b_{y2} - a_{y1} b_{y1}) (a_{y1} b_{y2} - a_{y1} b_{y1}) (a_{y2} b_{y1} a_{y2} - a_{y1} b_{y1}) (a_{y2} b_{y1} a_{y2} - a_{y1} b_{y1}) (a_{y1} b_{y2} - a_{y1} b_{y1}) (a_{y1} b_{y1} - a_{y1} b_{y1}) (a_{y1} b_{y2} - a_{y1} b_{y1}) (a_{y1} b_{y2} - a_{y1} b_{y1}) (a_{y1} b_{y1} - a_{y1} b_{y1}) (a_{y1} b_{y2} - a_{y1} b_{y2}) (a_{y1} b_{y2} (a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x1} d_{y2} - b_{y1} d_{x2}) - 84 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} a_{y2}) - 84 (a_{y1} a_{y2} - a_{y1} a_{y1}) (a_{y1} a_{y2} - a_{y1} a_{y1}) (a_{y1} a_{y1} - a_{y1} a_{y1}) (a$ $(a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{y2} c_{x1} - a_{x2} c_{y1}) (c_{x1} d_{y1} - c_{y1} d_{x1}) - 56 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} c_{x2}) (a_{y1} c_{x2}) (a_{y2} c_{x1} - a_{x2} c_{y1}) (c_{x1} d_{y1} - c_{y1} d_{x1}) - 56 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} c_{x2}) (a_{y2} c_{x1} - a_{x2} c_{y1}) (c_{x1} d_{y1} - c_{y1} d_{x1}) - 56 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} c_{x2}) (a_{y1} c_{x2} - a_{y1} c_{x2}) (a_{y1} c_{$ $(a_{u1} b_{u2})^3 (a_{x1} c_{u2} - a_{u1} c_{x2}) (c_{x1} d_{u1} - c_{u1} d_{x1}) - 96 (a_{x1} a_{u2} - a_{x2} a_{u1}) (a_{x1} b_{u1} - a_{u1} b_{x1}) (a_{x1} b_{u2} - a_{u2} a_{u1})$ $a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (c_{x1} d_{y1} - c_{y1} d_{x1}) + 84 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} a_{y1})^2 (a_{x1} c_{y2} - a_{y1} a_{y1} a_{y1} - a_{y1} a_{y1})^2 (a_{x1} c_{y2} - a_{y1} a_{y1}$ $(a_{y1} c_{x2}) (a_{y2} c_{x1} - a_{x2} c_{y1}) (c_{x1} d_{y2} - c_{y1} d_{x2}) + 56 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^3 (a_{x1} c_{y2} - a_{y1} b_{x2})^3$ $a_{y1} c_{x2} (c_{x1} d_{y2} - c_{y1} d_{x2}) + 96 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} b_{x2}) (a_{x1} c$ $(a_{y1} c_{x2})^2 (c_{x1} d_{y2} - c_{y1} d_{x2}) - 16 (a_{x1} b_{y2} - a_{y1} b_{x2})^3 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (b_{x1} d_{y1} - a_{y1} c_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x2} c_{y1} - a_{y1} c_{x2}) (a_{x2} c_{y2} - a_{y1} c_{x2}) (a_$ $b_{y1} d_{x1}$) $-48 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (b_{x1} d_{y1} - a_{y1}$ $(b_{y1} d_{x1}) + 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1})^2 (b_{x1} c_{y1} - b_{y1} c_{x1}) (c_{x1} c_{y2} - c_{x2} c_{y1}) +$ $12\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(b_{x1}\,b_{y2}-b_{x2}\,b_{y1}\right)\left(b_{x1}\,d_{y1}-b_{y1}\,d_{x1}\right)\left(b_{y2}\,c_{x1}-b_{x2}\,c_{y1}\right) 12\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{2}\left(a_{y2}\,b_{x1}-a_{x2}\,b_{y1}\right)\left(b_{x1}\,b_{y2}-b_{x2}\,b_{y1}\right)\left(b_{y2}\,c_{x1}-b_{x2}\,c_{y1}\right)+$ $12\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{2}\left(b_{y2}\,c_{x1}-b_{x2}\,c_{y1}\right)^{2}-12\left(a_{x1}\,a_{y2}-a_{y1}\,b_{x1}\right)^{2}$ $(a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) (b_{y2} c_{x1} - b_{x2} c_{y1}) - 10 (a_{x1} a_{y2} - b_{y1} d_{x2}) (a_{y2} c_{y1} - b_{y2} c_{y1}) - 10 (a_{y1} a_{y2} - b_{y1} d_{y2}) (a_{y2} c_{y1} - b_{y2} c_{y1}) - 10 (a_{y1} a_{y2} - b_{y1} d_{y2}) (a_{y2} c_{y1} - b_{y2} c_{y1}) - 10 (a_{y1} a_{y2} - b_{y1} d_{y2}) (a_{y2} c_{y1} - b_{y2} c_{y1}) - 10 (a_{y1} a_{y2} - b_{y1} d_{y2}) (a_{y2} c_{y1} - b_{y2} c_{y1}) - 10 (a_{y1} a_{y2} - b_{y1} d_{y2}) (a_{y2} c_{y1} - b_{y2} c_{y1}) - 10 (a_{y1} a_{y2} - b_{y2} d_{y1}) (a_{y2} c_{y1} - b_{y2} d_{y2}) (a_{y2} c_{y1} - b_{y2} c_{y1}) - 10 (a_{y1} a_{y2} - b_{y2} d_{y2}) (a_{y2} c_{y1} - b_{y2} c_{y1}) - 10 (a_{y1} a_{y2} - b_{y2} d_{y2}) (a_{y2} c_{y1} - b_{y2} c_{y1}) - 10 (a_{y1} a_{y2} - b_{y2} d_{y2}) (a_{y2} c_{y1} - b_{y2} c_{y1}) - 10 (a_{y1} a_{y2} - b_{y2} d_{y2}) (a_{y2} c_{y1} - b_{y2} d_{y2}) (a_{y2} c_{y2} - b_{y2} d_{y2}) (a_{y2} c_{y1} - b_{y2} d_{y2}) (a_{y2} c_{y2} - b_$ $(a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (b_{x1} c_{y2} - b_{y1} c_{x2})^2 - 20 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} c_{x2})^2$ $(a_{y1} b_{x2})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (b_{x1} c_{y2} - b_{y1} c_{x2})^2 - 18 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} c_{y2} - a_{y1} c_{x2})^2 - 18 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 - 18 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 - 18 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 - 18 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 - 18 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 - 18 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 - 18 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 - 18 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 - 18 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 - 18 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 - 18 (a_{x1} a_{y2} - a_{y1} a_{y1} a_{y1} - a_{y1} a_{y1} a_{y1})^2 (a_{x1} c_{y2} - a_{y1} a_{y1$ $(b_{y1} c_{x2})^2 (b_{y2} c_{x1} - b_{x2} c_{y1}) - 30 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{y2} c_{x1} - a_{x2} c_{y1}) (b_{x1} c_{y2} - a_{y1} b_{x2})^2 (a_{y2} c_{x1} - a_{y2} c_{y1}) ($ $(b_{y1} c_{x2})^2 + 36 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} b_{y2} - b_{x2} b_{y1}) (c_{x1} d_{y1} - a_{y1} b_{x2})^2$ $(c_{y1} d_{x1}) - 84 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (b_{y2} c_{x1} - b_{x2} c_{y1}) (c_{x1} d_{y1} - a_{y1} b_{x2})^2 (a_{y1} a_{y1} - a_{y1} a_{y2}) (a_{y2} a_{y1} a_{y2} - a_{y1} a_{y2}) (a_{y1} a_{y1} - a_{y1} a$ $c_{y1}\,d_{x1}) - 36\,(a_{x1}\,b_{y1} - a_{y1}\,b_{x1})^2\,(a_{x1}\,b_{y2} - a_{y1}\,b_{x2})\,(a_{y2}\,b_{x1} - a_{x2}\,b_{y1})\,(b_{x1}\,b_{y2} - b_{x2}\,b_{y1})\,(c_{x1}\,d_{y2} - a_{y1}\,b_{x2})^2\,(a_{y2}\,b_{y1} - a_{y1}\,b_{y2})^2\,(a_{y1}\,b_{y2} - a_{y1}\,b_{y2})^2\,(a_{y2}\,b_{y1} - a_{y1}\,b_{y1})^2\,(a_{y2}\,b_{y1} - a_{y1}\,b_{y2})^2\,(a_{y2}\,b_{y1} - a_{y1}\,b_{y2})^2\,(a_{y2}\,b_{y1} - a_{y1}\,b_{y1})^2\,(a_{y2}\,b_{y1} - a_{y1}\,$ $(c_{y1} d_{x2}) + 84 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (b_{y2} c_{x1} - b_{x2} c_{y1}) (c_{x1} d_{y2} - a_{y1} b_{x2}) (a_{y2} c_{y1} - a_{y1} b_{y2}) (a_{y1} d_{y2} - a_{y1} d_{y2}) (a_{y1} d_{y2} - a_{y1} d_{y2}) (a_{y2} d_{y2} - a_{y1} d_{y2}) (a_{y2} d_{y2} - a_{y1} d_{y2}) (a_{y1} d_{y2} - a_{y1} d_{y2}) (a_{y$ $(c_{y1} d_{x2}) + 24 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (c_{x1} c_{y2} - c_{x2} c_{y1}) +$ $36\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)^{2}\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)^{2}\left(c_{x1}\,c_{y2}-c_{x2}\,c_{y1}\right)+84\left(a_{x1}\,a_{y2}-a_{y1}\,b_{x2}\right)^{2}$ $(a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (b_{y2} c_{x1} - b_{x2} c_{y1}) (c_{x1} c_{y2} - c_{x2} c_{y1}) + 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{y1} c_{y2} - a_{y1} c_{x2}) (a_{y2} c_{x1} - a_{y2} c_{y1}) + 6 (a_{x1} b_{y1} - a_{y1} c_{x2}) (a_{y2} c_{y1} - a_{y1} c_{y2}) (a_{y1} c_{y2} - a_{y1} c_{y2}) (a_{y2} c_{y1} - a_{y1} c_{y2}) (a_{y1} c_{y2} - a_{y1} c_{y2}) (a_{y2} c_{y1} - a_{y1} c_{y2}) (a_{y2} c_{y1} - a_{y1} c_{y2}) (a_{y1} c_{y2} - a_{y1} c_{y2}) (a_{y1} c_{y1} - a_{y1} c_{y1} c_{y2}) (a_{y1} c_{y1} - a_{y1} c_{y1} c_{y1} - a_{y1} c_{y2}) (a_{y1} c_{y1} - a_{y1} c_{y1} c_{y1}) (a_{y1} c_{y1} - a_{y1} c_{y1} c_{y1} c_{y1} c_{y1}) (a_{y1$ $(a_{u1} b_{x1})^2 (a_{u2} b_{x1} - a_{x2} b_{u1}) (b_{x1} b_{u2} - b_{x2} b_{u1}) (b_{x1} c_{u1} - b_{u1} c_{x1}) (b_{u2} c_{x1} - b_{x2} c_{u1}) - 4 (a_{x1} b_{u1} - b_{u2} c_{u1}) - 4 (a_{x1} b_{u1} - b_{u2} c_{u1}) - 4 (a_{x1} b_{u2} - b_{u2} c_{u2}) - 4 (a_{x1} b_{u2} - b_{u2$ $a_{y1} b_{x1}$) $(a_{x1} c_{y2} - a_{y1} c_{x2})^4 (a_{y2} c_{x1} - a_{x2} c_{y1}) + 24 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} b_{x2}) (a_{$ $(a_{y1} c_{x2})^3 (b_{y2} c_{x1} - b_{x2} c_{y1}) + 10 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^4 (a_{y2} b_{x1} - a_{x2} b_{y1}) - 0$ $24\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)\left(b_{x1}\,b_{y2}-b_{x2}\,b_{y1}\right)\left(b_{x1}\,c_{y2}-b_{y1}\,c_{x2}\right)\left(b_{y2}\,c_{x1}-b_{x2}\,c_{y1}\right)+$ $24 \left(a_{x1} \, b_{y1} - a_{y1} \, b_{x1}\right)^2 \left(a_{x1} \, b_{y2} - a_{y1} \, b_{x2}\right)^2 \left(b_{y2} \, c_{x1} - b_{x2} \, c_{y1}\right) \left(c_{x1} \, c_{y2} - c_{x2} \, c_{y1}\right) + 48 \left(a_{x1} \, a_{y2} - a_{y1} \, b_{y2}\right)^2 \left(a_{y1} \, b_{y2} + a_{y1} \, b_{y2}\right)^2 \left(a_{y2} \, c_{y1} - a_{y2} \, c_{y1}\right) + 48 \left(a_{y1} \, a_{y2} - a_{y2} \, c_{y2}\right)^2 \left(a_{y1} \, b_{y2} - a_{y1} \, b_{y2}\right)^2 \left(a_{y2} \, c_{y1} - a_{y2} \, c_{y2}\right) + 48 \left(a_{y2} \, a_{y2} - a_{y2} \, c_{y2}\right)^2 \left(a_{y2} \, a_{y2} - a_{y2} \, c_{y2}\right)^2 \left(a_{y2} \, a_{y2} - a_{y2} \, c_{y2}\right) + 48 \left(a_{y2} \, a_{y2} - a_{y2} \, a_{y2}\right)^2 \left(a_{y2} \, a_{y2} + a_{y2} \, a_$ $a_{x2} a_{y1}$) $(a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x1} d_{y1} - a_{y1} b_{x1}) (a_{y1} c_{y2} - a_{y1} c_{y1}) (a_{y2} b_{y1} - a_{y2} b_{y1}) (a_{y2} b_{y2} - a_{y2} b_{y2}) (a_{y2} b_{$ $b_{y1} d_{x1}) + 20 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (b_{x1} c_{y1} - b_{y1} c_{x1}) + 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (a_{x1} c_{y2} - a_{y1} c_{y2})^3 (a_{x1} c_{y2} (a_{y1} c_{x2})^2 (a_{x2} c_{y2} - a_{y2} c_{x2}) (b_{x1} c_{y2} - b_{y1} c_{x2}) - 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{x2} c_{y2} - a_{y2} c_{x2}) (a_{y2} c_{y2} - a_{y2} c_{y2}) (a_{$

 $a_{y2} c_{x2}) (b_{x1} c_{y1} - b_{y1} c_{x1})^2 - 2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x2} b_{y2} - a_{y2} b_{x2}) (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} c_{y1} - b_{y1} c_{x1})^2 - 2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x2} b_{y2} - a_{y2} b_{x2}) (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} c_{y1} - b_{y1} c_{x1})^2 - 2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x2} b_{y2} - a_{y2} b_{x2}) (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} c_{y1} - a_{y1} b_{x1})^2 - 2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x2} b_{y2} - a_{y2} b_{x2}) (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} c_{y1} - a_{y1} b_{x1})^2 - 2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x2} b_{y2} - a_{y2} b_{x2}) (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} c_{y1} - a_{y1} b_{x1})^2 - 2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x2} b_{y2} - a_{y2} b_{x2}) (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} c_{y1} - a_{y1} b_{x1})^2 - 2 (a_{x1} b_{y1} - a_{y1} b_{x1} - a_{y1} b_{x1})^2 - 2 (a_{x1} b_{y1} - a_{y1} b_{x1} - a_{y1} b_{x1})^2 - 2 (a_{x1} b_{y1} - a_{y1} b_{x1} - a_{y1} b_{x1})^2 - 2 (a_{x1} b_{y1} - a_{y1} b_{x1} - a_{y1} b_{x1})^2 - 2 (a_{x1} b_{y1} - a_{y1} b_{x1} - a_{y1} b_{x1})^2 - 2 (a_{x1} b_{y1} - a_{y1} b_{x1} - a_{y1} b_{x1})^2 - 2 (a_{x1} b_{y1} - a_{y1} b_{x1} - a_{y1} b_{x1})^2 - 2 (a_{x1} b_{y1} - a_{y1} b_{x1} - a_{y1} b_{x1})^2 - 2 (a_{x1} b_{y1} - a_{y1} b_{x1} - a_{y1} b_{x1})^2 - 2 (a_{x$ $b_{y1} c_{x1})^2 - 6 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (b_{x2} c_{y2} - b_{y2} c_{x2}) + 4 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} c_{y2} - a_{y2} a_{y2})^2 (a_{x2} c_{y2} - a_{y2} a_{y2} a_{y2})^2 (a_{x2} c_{y2} - a_{y2} a_{y2} a_{y2} a_{y2} a_{y2})^2 (a_{x2} c_{y2} - a_{y2} a_{y2$ $a_{y1} c_{x2} (b_{x1} c_{y1} - b_{y1} c_{x1})^3 + 2 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} b_{y2} - b_{x2} b_{y1})^2 6\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{2}\left(a_{y2}\,c_{x1}-a_{x2}\,c_{y1}\right)\left(b_{x1}\,b_{y2}-b_{x2}\,b_{y1}\right)^{2}-4\left(a_{x1}\,c_{y1}-a_{y1}\,c_{y1}\right)^{2}$ $(a_{y1} c_{x1})^3 (a_{y2} b_{x1} - a_{x2} b_{y1})^2 (b_{x1} c_{y2} - b_{y1} c_{x2}) + 10 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{y2} c_{x1} - a_{x2} c_{y1}) (b_{y2} c_{x1} - a_{y2} c_{y1}) (a_{y2} c_{y1} - a_{y2} c_{y1}) ($ $(b_{x2} c_{y1})^2 + 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{y2} c_{x1} - a_{x2} c_{y1})^2 (c_{x1} c_{y2} - c_{x2} c_{y1}) + 12 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y2} a_{y2}) + 12 (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y2} a_{y2} - a_{y2} a_{y2}) (a_{y2} a_{y2} - a_{y2} a_{y2} a_{y2}) (a_{y2} a_{y2} - a_{y2} a_{y2} a_{y2}) (a_{y2} a_{y2} - a_{y2} a_{y2} a_{y2}) (a_$ $(a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} c_{y1} - b_{y1} c_{x1}) (c_{x1} c_{y2} - c_{x2} c_{y1}) + 6 (a_{x1} b_{y1} - a_{y1} c_{x1}) (a_{y2} b_{y1} - a_{y2} b_{y1}) (a_{y2} b_{y1} - a_{y1} c_{x1}) (a_{y2} b_{y1} - a_{y2} b_{y1}) (a_{y2} b_{y1} - a_{y1} c_{x1}) (a_{y2} b_{y1} - a_{y2} b_{y1}) (a_{y2} b_{y2} - a_{y2} b_{y1}) (a_{y2} b_{y2} - a_{y2} b_{y2}) (a_{y2}$ $(a_{y1} b_{x1})^3 (a_{y2} c_{x1} - a_{x2} c_{y1})^2 (c_{x1} c_{y2} - c_{x2} c_{y1}) - 2 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (b_{x1} c_{y1} - a_{y1} b_{y2})^2 (b_{x1} c_{y1} - a_{y1} b_{y2})^2 (b_{y1} c_{y1} - a_{y2} b_{y2} - a_{y2} b_{y2})^2 (b_{y1} c_{y1} - a_{y2} b_{y2} - a_{y2} b_{y2})^2 (b_{y1} c_{y2} - a_{y2} b_{y2} - a$ $(b_{y1} c_{x1})^3 - 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{y2} c_{x1} - a_{x2} c_{y1})^2 (b_{x1} c_{y1} - b_{y1} c_{x1}) - b_{y1} c_{x1}$ $24\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)\left(b_{x1}\,b_{y2}-b_{x2}\,b_{y1}\right)\left(b_{x1}\,c_{y2}-b_{y1}\,c_{x2}\right)^{2}+$ $6\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)\left(a_{x2}\,d_{y2}-a_{y2}\,d_{x2}\right)\left(b_{x1}\,b_{y2}-b_{x2}\,b_{y1}\right)^{2}-24\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}$ $(a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} b_{y2} - b_{x2} b_{y1})^{2} - 18 (a_{x1} b_{y1} - a_{y1} b_{x1})^{2}$ $(a_{u1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{y2} b_{x1} - a_{x2} b_{y1})^2 (c_{x2} d_{y2} - c_{y2} d_{x2}) - 36 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} b_{x1}) (a_{y2} b_{y1} - a_{y1} b_{y1})^2 (a_{y2} b_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1})^2 (a_{y2} b_{y1} - a_{y1} b_{$ $(a_{u1} c_{x1}) (a_{x1} d_{u2} - a_{u1} d_{x2}) (a_{u2} b_{x1} - a_{x2} b_{u1})^2 (b_{x1} c_{u2} - b_{u1} c_{x2}) - 36 (a_{x1} b_{u1} - a_{u1} b_{x1})^2 (a_{x1} c_{u1} - a_{u1} b_{x1})^2 (a_{x2} c_{u1} - a_{u1} c_{u2}) - 36 (a_{x2} c_{u2} - a_{u2} c_{u2}) - 36 (a_{x2} c_{u2} - a_{x2} c_{u2}) - 36 (a_{x2}$ $a_{y1} c_{x1}$) $(a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{x2} d_{y2} - a_{y2} d_{x2}) (b_{x1} c_{y2} - b_{y1} c_{x2}) - 36 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} b_{x2}) - 36 (a_{x1} b_{y1} - a_{y1} b_{x2}) - 36 (a_{x1}$ $(a_{y1} c_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1})^2 (b_{x1} c_{y2} - b_{y1} c_{x2}) + 30 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} b_{x1})^2 (a_{x2} c_{y1} - a_{y1} b_{x2}) + 30 (a_{x2} c_{y2} - a_{y1} c_{x2}) + 30 (a_{x2} c_{y1} c_{x2}) + 30 (a_{x2} c_{y1} c_{y2} - a_{y1} c_{x2}) + 30 (a_{x2} c_{y1} c_{y2} c_{y1} c_{y2} c_{y1} c_{y2}) + 30 (a_{x2} c_{y1} c_{y2} c_{y2} c_{y2} c_{y1} c_{y2} c$ $(a_{u1} c_{x1}) (a_{u2} d_{x1} - a_{x2} d_{u1}) (b_{x1} b_{u2} - b_{x2} b_{u1})^2 + 24 (a_{x1} a_{u2} - a_{x2} a_{u1}) (a_{x1} b_{u1} - a_{u1} b_{x1}) (a_{x1} c_{u1} - a_{u1} b_{u1})^2 + 24 (a_{x1} a_{u2} - a_{x2} a_{u1}) (a_{x1} b_{u1} - a_{u1} b_{x1}) (a_{x1} c_{u1} - a_{u1} b_{u1})^2 + 24 (a_{x1} a_{u2} - a_{x2} a_{u1}) (a_{x1} b_{u1} - a_{u1} b_{x1}) (a_{x1} c_{u1} - a_{u1} b_{u1}) (a_{x1} c_{u1} - a_{u1}$ $(a_{y1} c_{x1}) (b_{x1} b_{y2} - b_{x2} b_{y1})^2 (b_{x1} d_{y1} - b_{y1} d_{x1}) + 18 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{y2} b_{x1} - a_{y1} c_{x1})^2 (a_{y1} c_{y1} - a_{y1} c_{y1}) (a_{y2} b_{y1} - a_{y1} c_{y1})^2 (a_{y1} c_{y1} - a_{y1} c_{y1} c_{y1} - a_{y1} c_{y1})^2 (a_{y1} c_{y1} - a_{y1} c_{y1} c_{y1} c_{y1} - a_{y1} c_{y1} c_{y1$ $(a_{x2} b_{y1})^2 (c_{y2} d_{x1} - c_{x2} d_{y1}) - 36 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{x2} c_{y2} - a_{y1} c_{x1}) (a_{y2} b_{x1} - a_{y2} b_{y1}) (a_{y2} b_{x1} - a_{y2} b_{y1}) (a_{y2} c_{y2} - a_{y1} c_{y1}) (a_{y2} b_{x1} - a_{y2} b_{y1}) (a_{y2} b_{x1} - a_{y2} b_{y1}) (a_{y2} c_{y2} - a_{y1} c_{y1}) (a_{y2} b_{x1} - a_{y2} b_{y1}) (a_{y2} c_{y2} - a_{y1} c_{y2}) (a_{y2} b_{x1} - a_{y2} b_{y1}) (a_{y2} c_{y2} - a_{y1} c_{y2}) (a_{y2} c_{y2} - a_{y2} c_{y2}) (a_$ $(a_{y2} c_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1}) + 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{y2} c_{x1} - a_{x2} c_{y1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x2} c_{x2} - b_{y1} c_{x2}) (b_{x2} c_{x2} - b_{y1} c_{x2}) (b_{x$ $b_{y2}\,c_{x2}) + 6\,(a_{x1}\,b_{y1} - a_{y1}\,b_{x1})^3\,(b_{x1}\,b_{y2} - b_{x2}\,b_{y1})\,(b_{y2}\,c_{x1} - b_{x2}\,c_{y1})\,(b_{x2}\,c_{y2} - b_{y2}\,c_{x2}) - 10\,(a_{x1}\,b_{y1} - a_{y1}\,b_{x1})^3\,(a_{x1}\,b_{y2} - a_{y2}\,b_{y1})\,(a_{y2}\,c_{y1} - a_{y1}\,b_{y2})^3\,(a_{y1}\,b_{y2} - a_{y2}\,b_{y1})\,(a_{y2}\,c_{y1} - a_{y2}\,b_{y2})^3\,(a_{y2}\,b_{y2} - a_{y2}\,b_{y2})^3\,(a_{y1}\,b_{y2} - a_{y2}\,b_{y2})^3\,(a_{y1}\,b_{y2} - a_{y2}\,b_{y2})^3\,(a_{y1}\,b_{y2} - a_{y2}\,b_{y2})^3\,(a_{y2}\,b_{y2} - a_{y2}\,$ $(a_{u1} b_{x1})^2 (a_{x1} b_{u2} - a_{u1} b_{x2}) (b_{x1} b_{u2} - b_{x2} b_{u1}) (b_{x1} c_{u1} - b_{u1} c_{x1}) (b_{x2} c_{u2} - b_{u2} c_{x2}) - 8 (a_{x1} b_{u1} - b_{u1} c_{x2}) (a_{x2} b_{u2} - b_{u2} c_{x2}) - 8 (a_{x2} b_{u2} - b_{u2} c_$ $(a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (b_{x1} b_{y2} - b_{x2} b_{y1})^2 (b_{x1} c_{y1} - b_{y1} c_{x1}) - 12 (a_{x1} b_{y1} - b_{y1} c_{x1}) - 12 (a_{x1$ $(a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{x2} c_{y2} - b_{y2} c_{x2}) + 24 (a_{x1} b_{y1} - b_{y1} c_{x2}) (a_{y2} b_{y1} - b_{y1} c_{y1}) (a_{y2} b_{y2} - b_{y2} c_{y2}) + 24 (a_{y2} b_{y1} - b_{y1} c_{y2}) (a_{y2} b_{y2} - b_{y2} c_{y2}) + 24 (a_{y2} b_{y2} - b_{y2} c_{y2}) + 24 (a_{y2} b_{y2} - b_{y2} c_{y2}) + 24 (a_{y2} b_{y2} - b_{y2} c_{y2}) (a_{y2} b_{y2} - b_{y2} c_{y2}) + 24 (a_{y2} b_{y2} - b_{y2} c_{y2} - b_{y2} c_{y2}) + 24 (a_{y2} b_{y2} - b_{y2} c_{y2} - b_{y2} c_{y2})$ $(a_{y1} b_{x1})^3 (a_{x2} c_{y2} - a_{y2} c_{x2}) (b_{x1} b_{y2} - b_{x2} b_{y1}) (c_{x1} c_{y2} - c_{x2} c_{y1}) - 28 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x2} c_{y2} - a_{y2} c_{x2}) (a_{x1} b_{y2} - a_{y2} c_{x2}) (a_{x2} c_{y2} - a_{y2} c_{x2}) (a_{x1} b_{y2} - a_{y2} c_{x2}) (a_{x2} c_{y2} - a_{y2} c_{x2}) (a_$ $(a_{y2} c_{x2}) (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{x2} c_{y2} - b_{y2} c_{x2}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x2} d_{y2} - a_{y2} d_{x2}) (b_{x1} b_{y2} - a_{y2} d_{x2}) (a_{x2} d_{y2} - a_{y2} d_{x2}) (a_{x$ $(b_{x2} b_{y1}) (b_{y2} c_{x1} - b_{x2} c_{y1}) - 8 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x2} b_{y2} - a_{y2} b_{x2}) (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{x2} d_{y2} - a_{y2} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x2} d_{y2} - a_{y2} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x2} d_{y2} - a_{y2} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x2} d_{y2} - a_{y2} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x2} d_{y2} - a_{y2} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x2} d_{y2} - a_{y2} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x2} d_{y2} - a_{y2} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x2} d_{y2} - a_{y2} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x2} d_{y2} - a_{y2} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x2} d_{y2} - a_{y2} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x2} d_{y2} - a_{y2} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x2} d_{y2} - a_{y2} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x2} d_{y2} - a_{y2} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x2} d_{y2} - a_{y2} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x2} d_{y2} - a_{y2} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x2} d_{y2} - a_{y2} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x2} d_{y2} - a_{y2} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x2} d_{y2} - a_{y2} b_{x2}) (a_{x2} d_{y2} - a_{y2} b_{y2}) (a_{x2$ $b_{u2} d_{x2}$) + 24 $(a_{x1} b_{u1} - a_{u1} b_{x1}) (a_{x1} c_{u2} - a_{u1} c_{x2}) (a_{x1} d_{u2} - a_{u1} d_{x2}) (a_{u2} b_{x1} - a_{x2} b_{u1})^2 (b_{x1} c_{u1} - a_{x2} b_{u1})^2 (b_{x1} c_{u1} - a_{x2} b_{u1})^2 (b_{x1} c_{u2} - a_{u1} d_{x2}) (a_{x2} b_{x1} - a_{x2} b_{u1})^2 (b_{x1} c_{u1} - a_{x2} b_{u1})^2 (b_{x1} c_{u2} - a_{u1} d_{x2}) (a_{x2} b_{x1} - a_{x2} b_{u1})^2 (b_{x1} c_{u2} - a_{u1} d_{x2}) (a_{x2} b_{x1} - a_{x2} b_{u1})^2 (b_{x1} c_{u2} - a_{u1} d_{x2}) (a_{x2} b_{x1} - a_{x2} b_{u1})^2 (b_{x1} c_{u2} - a_{u1} d_{x2}) (a_{x2} b_{x1} - a_{x2} b_{u1})^2 (b_{x1} c_{u2} - a_{u1} d_{x2}) (a_{x2} b_{x1} - a_{x2} b_{u1})^2 (b_{x1} c_{u2} - a_{u1} d_{x2}) (a_{x2} b_{x1} - a_{x2} b_{u1})^2 (b_{x1} c_{u2} - a_{u1} d_{x2}) (a_{x2} b_{x1} - a_{x2} b_{u1})^2 (b_{x1} c_{u2} - a_{u1} d_{x2}) (a_{x2} b_{x1} - a_{x2} b_{u1})^2 (b_{x1} c_{u2} - a_{u1} d_{x2}) (a_{x2} b_{x1} - a_{x2} b_{u1})^2 (b_{x1} c_{u2} - a_{u1} d_{x2}) (a_{x2} b_{x1} - a_{x2} b_{u1})^2 (b_{x1} c_{u2} - a_{u1} d_{x2}) (a_{x2} b_{x1} - a_{x2} b_{u1})^2 (b_{x1} c_{u2} - a_{u1} d_{x2}) (a_{x2} b_{x1} - a_{x2} b_{u1})^2 (b_{x1} c_{u2} - a_{u1} d_{x2}) (a_{x2} b_{x2} - a_{x2} b_{u1})^2 (b_{x2} b_{x2} - a_{x2} b_{u2}) (a_{x2} b_{x2} - a_{x2} b_{x2} - a_{x2} b_{x2}) (a_{x2} b_{x2} - a_{x2} b_{x2} - a_{x2} b_{x2} - a_{x2} b_{x2}) (a_{x2} b_{x2} - a_{x2} b_{x2} - a_{x2} b_{x2} - a_{x2} b_{x2}) (a_{x2} b_{x2} - a_{x2} b_{x2} - a$ $(b_{y1} c_{x1}) - 16 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x2} c_{y2} - a_{y2} c_{x2}) (a_{x2} d_{y2} - a_{y2} d_{x2}) (b_{x1} c_{y1} - b_{y1} c_{x1}) - (b_{x1} c_{y1} - a_{y1} b_{x1})^3 (a_{x2} c_{y2} - a_{y2} c_{x2}) (a_{x2} d_{y2} - a_{y2} d_{x2}) (b_{x1} c_{y1} - b_{y1} c_{x1}) - (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x2} c_{y2} - a_{y2} c_{x2}) (a_{x2} d_{y2} - a_{y2} d_{x2}) (a_{x2} d_{y2} - a_{y2} d_{x2$ $24\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{y2}\,d_{x1}-a_{x2}\,d_{y1}\right)\left(b_{x1}\,c_{y1}-b_{y1}\,c_{x1}\right)\left(b_{x1}\,c_{y2}-b_{y1}\,c_{x2}\right) 12\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{3}\left(a_{y2}\,d_{x1}-a_{x2}\,d_{y1}\right)\left(b_{x1}\,b_{y2}-b_{x2}\,b_{y1}\right)\left(b_{y2}\,c_{x1}-b_{x2}\,c_{y1}\right)-8\left(a_{x1}\,b_{y1}-a_{y2}\,b_{y1}\right)\left(b_{y2}\,c_{x1}-b_{y2}\,c_{y1}\right)$ $(a_{y1} b_{x1})^3 (a_{x2} b_{y2} - a_{y2} b_{x2}) (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{y2} d_{x1} - b_{x2} d_{y1}) + 8 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{y2} d_{x1} - b_{y2} d_{y1})$ $a_{x2}\,d_{y1})\,(a_{x2}\,c_{y2} - a_{y2}\,c_{x2})\,(b_{x1}\,c_{y1} - b_{y1}\,c_{x1}) + 24\,(a_{x1}\,a_{y2} - a_{x2}\,a_{y1})\,(a_{x1}\,b_{y1} - a_{y1}\,b_{x1})^2\,(a_{y2}\,b_{x1} - a_{y2}\,a_{y1})^2\,(a_{y2}\,b_{y2} - a_{y2}\,a_{y2})^2\,(a_{y2}\,b_{y2} - a_{y2}\,$ $(a_{x2} b_{y1}) (b_{x1} d_{y1} - b_{y1} d_{x1}) (c_{x1} c_{y2} - c_{x2} c_{y1}) + 12 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (b_{x2} c_{y2} - a_{y2} a_{y1}) (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y1} a_{y1} - a_{y1} a_{y1})^3 (a_{y2} a_{y2} - a_{y2} a_{y1}) (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y1} a_{y1} - a_{y1} a_{y1}) (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y2} a_{y2} - a_{y2} a_{y2}) (a_{y2} a_{y2} - a_{y2} a_{y2} a_{y2}) (a_{y2} a_{y2} - a_{y2} a_{y2} a_{y2} a_{y2}) (a_{y2} a_{y2} - a_{y2} a_{$ $b_{y2} c_{x2} (c_{x2} d_{y2} - c_{y2} d_{x2}) + 14 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x1} c_{y2} - a_{y1} c_{x2}) (b_{x2} c_{y2} - b_{y2} c_{x2})^2 +$ $12\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{3}\left(b_{x2}\,d_{y2}-b_{y2}\,d_{x2}\right)^{2}-12\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,c_{y1}-a_{y1}\,b_{x1}\right)^{2}$ $(a_{y1} c_{x1})^2 (a_{x2} c_{y2} - a_{y2} c_{x2}) (b_{x2} c_{y2} - b_{y2} c_{x2}) + 24 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x2} d_{y2} - a_{y2} c_{x2}) + 24 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x2} d_{y2} - a_{y2} c_{x2}) + 24 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x2} d_{y2} - a_{y2} a_{y2}) + 24 (a_{x1} a_{y2} - a_{y2} a_{y2}) (a_{x2} a_{y2} - a_{y2} a_{y2}) (a_{x2} a_{y2} - a_{y2} a_{y2}) + 24 (a_{x2} a_{y2} - a_{y2} a_{y2}) + 24 (a_{x2} a_{y2} - a_{y2} a_{y2}) (a_{x2} a_{y2} - a_{y2} a_{y2} - a_{y2} a_{y2}) (a_{x2} a_{y2} - a_{y2} a_{y2} - a_{y2} a_{y2}) (a_{x2} a_{y2} - a_{y2} a_{y2} - a_{y2} a_{y2}) (a_{x2} a_{y2} - a_{y2$ $(a_{y2} d_{x2}) (c_{x2} d_{y2} - c_{y2} d_{x2}) - 6 (a_{x1} c_{y1} - a_{y1} c_{x1})^4 (a_{x2} b_{y2} - a_{y2} b_{x2}) (b_{x1} b_{y2} - b_{x2} b_{y1}) + 12 (a_{x1} b_{y1} - a_{y1} c_{x1})^4 (a_{x2} b_{y2} - a_{y2} b_{x2}) (a_{x1} b_{y2} - a_{y2} b_{x2}) + 12 (a_{x1} b_{y1} - a_{y1} c_{x1})^4 (a_{x2} b_{y2} - a_{y2} b_{x2}) (a_{x1} b_{y2} - a_{y2} b_{x2}) + 12 (a_{x1} b_{y1} - a_{y1} c_{x1})^4 (a_{x2} b_{y2} - a_{y2} b_{x2}) (a_{x1} b_{y2} - a_{y2} b_{x2}) + 12 (a_{x1} b_{y1} - a_{y1} c_{x1})^4 (a_{x2} b_{y2} - a_{y2} b_{x2}) (a_{x1} b_{y2} - a_{y2} b_{x2}) + 12 (a_{x1} b_{y1} - a_{y1} c_{x1})^4 (a_{x2} b_{y2} - a_{y2} b_{x2}) (a_{x1} b_{y2} - a_{y2} b_{x2}) (a_{x1} b_{y2} - a_{y2} b_{x2}) + 12 (a_{x1} b_{y1} - a_{y1} c_{x1})^4 (a_{x2} b_{y2} - a_{y2} b_{x2}) (a_{x1} b_{y2} - a_{y2} b_{x2}) (a_{x1} b_{y1} - a_{y1} c_{x1}) + 12 (a_{x1} b_{y1} - a_{y1} c_{x1})^4 (a_{x2} b_{y2} - a_{y2} b_{x2}) (a_{x2} b_{y1} - a_{y1} c_{x1}) + 12 (a_{x1} b_{y1} - a_{y1} c_{x1})^4 (a_{x2} b_{y2} - a_{y2} b_{x2}) (a_{x2} b_{y2} - a_{y2} b_{y1}) + 12 (a_{x1} b_{y1} - a_{y1} c_{x1})^4 (a_{x2} b_{y2} - a_{y2} b_{x2}) (a_{x2} b_{y2} - a_{y2} b_{y1}) + 12 (a_{x1} b_{y1} - a_{y1} c_{x1})^4 (a_{x2} b_{y2} - a_{y2} b_{x2}) (a_{x2} b_{y2} - a_{y2} b_{y2}) (a_{x2} b_{y2} - a_{y2} b_{y2}) + 12 (a_{x2} b_{y2} - a_{y2} b_{y2}) (a_{x2} b_{y2} - a_{y2} b_{$ $(a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x2} b_{y2} - a_{y2} b_{x2}) (b_{x2} d_{y2} - b_{y2} d_{x2}) + 36 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x1} c_{y2} - a_{y2} b_{x2}) (a_{y2} b_{y2} - a_{y2} b_{x2}) (a_{y2} b_{y2} - a_{y2} b_{x2}) + 36 (a_{y2} b_{y2} - a_{y2} b_{x2}) (a_{y2} b_{y2} - a_{y2} b_{y2}) + 36 (a_{y2} b_{y2} - a_{y2} b_{y2}) (a_{y2} b_{y2} - a_{y2} b_{y2}) + 36 (a_{y2} b_{y2} - a_{y2} b_{y2}) (a_{y2} b_{y2} - a_{y2} b_{y2}) (a_{y2} b_{y2} - a_{y2} b_{y2}) + 36 (a_{y2} b_{y2} - a_{y2} b_{y2}) (a_{y2} b_{y2} - a_{y2} b_{y2$ $(a_{x1} c_{x2}) (a_{x2} c_{y2} - a_{y2} c_{x2}) (b_{x2} d_{y2} - b_{y2} d_{x2}) - 24 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x2} c_{y2} - a_{y2} c_{x2}) (a_{x$ $(a_{y2} c_{x2}) (b_{x2} c_{y2} - b_{y2} c_{x2}) + 14 (a_{x1} c_{y1} - a_{y1} c_{x1})^4 (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{x2} c_{y2} - a_{y2} c_{x2}) - 0$

 $12\left(a_{x1}\,b_{u1}-a_{u1}\,b_{x1}\right)^{2}\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{2}\left(a_{x2}\,c_{y2}-a_{y2}\,c_{x2}\right)\left(a_{x2}\,d_{y2}-a_{y2}\,d_{x2}\right) -24\left(a_{x1}\,b_{y1}-a_{y2}\,d_{x2}\right)$ $(a_{u1} b_{x1})^3 (a_{x1} d_{u1} - a_{u1} d_{x1}) (a_{x2} c_{u2} - a_{u2} c_{x2}) (a_{x2} d_{u2} - a_{u2} d_{x2}) - 12 (a_{x1} a_{u2} - a_{x2} a_{u1}) (a_{x1} b_{u1} - a_{u1} a_{u2}) - 12 (a_{x1} a_{u2} - a_{u2} a_{u1}) (a_{x1} a_{u2} - a_{u2} a_{u1}) (a_{x2} a_{u2} - a_{u2} a_{u2}) - 12 (a_{x1} a_{u2} - a_{u2} a_{u1}) (a_{x1} a_{u2} - a_{u2} a_{u1}) (a_{x2} a_{u2} - a_{u2} a_{u2}) - 12 (a_{x1} a_{u2} - a_{u2} a_{u1}) (a_{x1} a_{u2} - a_{u2} a_{u2}) - 12 (a_{x1} a_{u2} - a_{u2} a_{u1}) (a_{x1} a_{u2} - a_{u2} a_{u2}) - 12 (a_{x1} a_{u2} - a_{u2} a_{u1}) (a_{x1} a_{u2} - a_{u2} a_{u2}) - 12 (a_{x1} a_{u2} - a_{u2} a_{u2}) (a_{x1} a_{u2} - a_{u2} a_{u2}) - 12 (a_{x1} a$ $(a_{y1} b_{x1})^3 (b_{y2} d_{x1} - b_{x2} d_{y1}) (b_{x2} d_{y2} - b_{y2} d_{x2}) - 18 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x2} b_{y2} - a_{y1} c_{x1})^2 (a_{y1} c_{y1} - a_{y1} c_{x1})^2 (a_{y2} c_{y2} - a_{y1} c_{y1} c_{y1} - a_{y1} c_{x1})^2 (a_{y2} c_{y2} - a_{y1} c_{y1} c_{y1} - a_{y1} c_{x1})^2 (a_{y2} c_{y2} - a_{y1} c_{y1} c_{y1} - a_{y1} c_{x1})^2 (a_{y2} c_{y1} - a_{y1} c_{y1} c_{y1} - a_{y1} c_{y1} c_{y1} - a_{y1} c_{y1} c_{y1} c_{y1} - a_{y1} c_{y1} c_{y2} c_{y1} c_{$ $(a_{y2} b_{x2}) (b_{y2} d_{x1} - b_{x2} d_{y1}) + 18 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{y2} d_{x1} - a_{x2} d_{y1}) (a_{x2} c_{y2} - a_{y1} c_{x1})^2 (a_{y2} d_{x1} - a_{y2} d_{y1}) (a_{y2} d_{y2} - a_{y1} c_{y1})^2 (a_{y2} d_{y1} - a_{y1} c_{y1} - a_{y1} c_{y1})^2 (a_{y2} d_{y1} - a_{y1} c_{y1} - a_{y1} c_{y1})^2 (a_{y2} d_{y1} - a_{y1} c_{y1} - a_{y1} c_{y1} - a_{y1} c_{y1} c_{y1})^2 (a_{y2} d_{y1} - a_{y1} c_{y1} - a_{y1} c_{y1} c_{y1} - a_{y1} c_{y1} c_{$ $(a_{y2} c_{x2}) + 42 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (b_{y2} d_{x1} - b_{x2} d_{y1})^2 + 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x1} b_{y2} - a_{y2} b_{x1})^3 (a_{x2} b_{y2} - a_{y2} b_{x2})^3 (a_{x2} b_{y2} - a_{y2} b_{y2})^3 (a_{x2} b_{y2} - a_{y2} b_{y2} (a_{u1} b_{x2}) (a_{u2} d_{x1} - a_{x2} d_{u1}) (b_{u2} d_{x1} - b_{x2} d_{u1}) - 6 (a_{x1} b_{u1} - a_{u1} b_{x1})^3 (a_{x1} c_{u2} - a_{u1} c_{x2}) (a_{u2} d_{x1} - a_{u2} d_{u1}) - 6 (a_{x1} b_{u1} - a_{u1} b_{x1})^3 (a_{x1} c_{u2} - a_{u1} c_{x2}) (a_{u2} d_{x1} - a_{u2} d_{u1}) - 6 (a_{x1} b_{u1} - a_{u1} b_{x1})^3 (a_{x1} c_{u2} - a_{u1} c_{x2}) (a_{u2} d_{x1} - a_{u2} d_{u1}) - 6 (a_{x1} b_{u1} - a_{u1} b_{x1})^3 (a_{x1} c_{u2} - a_{u1} c_{x2}) (a_{u2} d_{x1} - a_{u2} d_{u1}) - 6 (a_{x1} b_{u1} - a_{u1} b_{x1})^3 (a_{x1} c_{u2} - a_{u1} c_{x2}) (a_{u2} d_{x1} - a_{u2} d_{u1}) - 6 (a_{x1} b_{u1} - a_{u1} b_{x1})^3 (a_{x1} c_{u2} - a_{u1} c_{x2}) (a_{u2} d_{x1} - a_{u2} d_{u1}) - 6 (a_{x1} b_{u1} - a_{u1} b_{x1})^3 (a_{x1} c_{u2} - a_{u1} c_{x2}) (a_{u2} d_{x1} - a_{u2} d_{u1}) - 6 (a_{x1} b_{u1} - a_{u1} b_{x1})^3 (a_{x1} c_{u2} - a_{u1} c_{x2}) (a_{u2} d_{x1} - a_{u2} d_{u1}) - 6 (a_{x1} b_{u1} - a_{u1} b_{x1})^3 (a_{x1} c_{u2} - a_{u1} c_{x2}) (a_{u2} d_{x1} - a_{u2} d_{u1}) - 6 (a_{x1} b_{u1} - a_{u1} b_{u1}) -$ $(a_{x2} d_{y1})^2 - 2 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{y2} c_{x1} - a_{x2} c_{y1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) - (b_{x1} c_{y2} - b_{y1} c_{y2}) - (b_{x1} c_{y2} - b_{y1} c_{x2}) - (b_{x1} c_{y2} - b_{y1} c_{y2}) - (b_{x1} c_{y2} - b_{$ $16\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)^{3}\left(b_{x1}\,c_{y2}-b_{y1}\,c_{x2}\right)\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)+24\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x2}\right)^{3}\left(b_{x1}\,c_{y2}-b_{y1}\,c_{x2}\right)\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)+24\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x2}\right)^{3}\left(b_{x1}\,c_{y2}-b_{y1}\,c_{x2}\right)\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)+24\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x2}\right)^{3}\left(b_{x1}\,c_{y2}-b_{y1}\,c_{x2}\right)\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)+24\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x2}\right)^{3}\left(b_{x1}\,c_{y2}-b_{y1}\,c_{x2}\right)\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)+24\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x2}\right)^{3}\left(b_{x1}\,c_{y2}-b_{y1}\,c_{x2}\right)\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)+24\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x2}\right)^{3}\left(b_{x1}\,c_{y2}-b_{y1}\,c_{x2}\right)\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)+24\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x2}\right)^{3}\left(b_{x1}\,c_{y2}-b_{y1}\,c_{x2}\right)\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)+24\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x2}\right)^{3}\left(b_{x1}\,c_{y2}-b_{y1}\,c_{x2}\right)\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)+24\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x2}\right)^{3}\left(b_{x1}\,c_{y2}-b_{y1}\,c_{x2}\right)\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)+24\left(a_{x1}\,b_{y1}-a_{y1}\,b_{y2}\right)^{3}\left(b_{x1}\,c_{y2}-b_{y1}\,c_{x2}\right)\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)+24\left(a_{x1}\,b_{y1}-a_{y1}\,b_{y1}-a_{y1}\,b_{y2}\right)^{3}\left(b_{x1}\,c_{y2}-b_{y1}\,c_{x2}\right)\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)+24\left(a_{x1}\,b_{y1}-a_{y1}\,b_{y2}\right)^{3}\left(b_{x1}\,c_{y2}-b_{y1}\,b_{y1}\right)^{3}\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)$ $(a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (c_{x2} d_{y2} - c_{y2} d_{x2}) - 12 (a_{x1} a_{y2} - a_{y1} c_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{x2} d_{y2} - a_{y1} d_{x2}) - 12 (a_{x1} a_{y2} - a_{y1} c_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{x2} d_{y2} - a_{y2} d_{x2}) - 12 (a_{x1} a_{y2} - a_{y1} c_{x2}) (a_{y2} b_{x1} - a_{y2} b_{y1}) (a_{y2} d_{y2} - a_{y1} d_{x2}) - 12 (a_{y2} d_{y2} - a_{y1} d_{y2}) (a_{y2} d_{y2} - a_{y1$ $(a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} d_{y2} - b_{y1} d_{x2}) (c_{x2} d_{y2} - c_{y2} d_{x2}) + 12 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} c_{y1} - a_{y1} b_{x1})^2 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} a_{y2} - a_{y2} a_{y1})^2 (a_{y1} a_{y2} - a_{y2} a_{y2}) + 12 (a_{y1} a_{y2} - a_{y2} a_{y1})^2 (a_{y2} a_{y2} - a_{y2} a_{y2})^2 (a_{y2} a_{y2} - a_{y2} a_{y2} a_{y2})^2 (a_{y2} a_{y2} - a_{y2} a_{y$ $(a_{y1} c_{x1})^2 (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x1} d_{y2} - b_{y1} d_{x2}) - 4 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{y2} c_{x1} - a_{y1$ $(a_{x2} c_{y1}) (b_{x1} b_{y2} - b_{x2} b_{y1}) + 16 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x2} c_{y2} - a_{y1} c_{x2})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x2} c_{y2} - a_{y1} c_{x2})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x2} c_{y2} - a_{y1} c_{x2})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x2} c_{y2} - a_{y1} c_{x2})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x2} c_{y2} - a_{y1} c_{x2})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x2} c_{y2} - a_{y1} c_{x2})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x2} c_{y2} - a_{y1} c_{x2})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x2} c_{y2} - a_{y1} c_{x2})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x2} c_{y2} - a_{y1} c_{x2})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x2} c_{y2} - a_{y1} c_{x2})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x2} c_{y2} - a_{y1} c_{x2})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x2} c_{y2} - a_{y1} c_{x2})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x2} c_{y2} - a_{y1} c_{x2})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x2} c_{y2} - a_{y1} c_{x2})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x2} c_{y2} - a_{y1} c_{x2})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x2} c_{y2} - a_{y1} c_{x2})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x2} c_{y2} - a_{y1} c_{x2})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x2} c_{y2} - a_{y1} c_{x2})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x2} c_{y2} - a_{y1} c_{x2})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x2} c_{y2} - a_{y1} c_{x2})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x2} c_{y2} - a_{y1} c_{x2})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x2} c_{y2} - a_{y1} c_{x2})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x2} c_{y2} - a_{y1} c_{x2})^2 (b_{x1} b_{y2} - a_{y1} c_{x2})^2 (b_{x1} b_{x2} - a_{y1} c_{x2})^2 (b_{x1} b_{x2} - a_{y1} c_{x2})^2 (b_{x1} b_{x2} - a_{y1} c_{x2})^2 (b_{x1} c_{x2} - a_{y1} c_{x2})$ $(b_{y2} c_{x2}) + 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x2} d_{y2} - b_{y2} d_{x2}) +$ $12\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)^{2}\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)\left(b_{x2}\,c_{y2}-b_{y2}\,c_{x2}\right)-12\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x2}\right)^{2}\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)^{2}\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(a_{x2}\,d_{y2}-a_{y2}\,d_{x2}\right)-12\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(a_{x2}\,d_{y2}-a_{y2}\,d_{x2}\right)-12\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(a_{x2}\,d_{y2}-a_{y2}\,d_{x2}\right)-12\left(a_{x2}\,d_{y2}-a_{y2}\,d_{x2}\right)-12\left(a_{x2}\,d_{y2}-a_{y2}\,d_{y2}\right)-12\left(a_{x2}\,d$ $(a_{u1} b_{u1}) (a_{x1} b_{u2} - a_{u1} b_{x2}) (a_{x1} c_{u2} - a_{u1} c_{x2}) (a_{x1} d_{u2} - a_{u1} d_{x2}) (b_{x1} b_{u2} - b_{x2} b_{u1})^2 - 12 (a_{x1} a_{u2} - a_{u1} b_{u2}) (a_{x1} a_{u2} - a_{u1} a_{u2}) (a_{x2} a_{u2} - a_{u1} a_{u2}) (a_{x2} a_{u2} - a_{u2} a_{u2}) (a_{x$ $(a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1}) (b_{x2} c_{y2} - b_{y2} c_{x2}) - 24 (a_{x1} b_{y1} - b_{y1} d_{x2}) (a_{y1} c_{y2} - a_{y1} c_{y2}) - 24 (a_{y1} c_{$ $(a_{u1} b_{u1})^2 (a_{x1} b_{y2} - a_{u1} b_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x2} d_{y2} - b_{y2} d_{x2}) + 10 (a_{x1} b_{y2} - a_{y1} b_{y2}) (a_{y1} b_{y2} - a_{y1} b_{y2}) (a_{y$ $a_{y1} b_{x2}) \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right)^3 \left(a_{y2} b_{x1} - a_{x2} b_{y1}\right) \left(b_{y2} c_{x1} - b_{x2} c_{y1}\right) + 20 \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right)^3 \left(a_{x1} c_{y2} - a_{y1} c_{x1}\right)^3 \left(a_{x1} c_{$ $(a_{u1} c_{x2}) (a_{u2} b_{x1} - a_{x2} b_{u1}) (a_{u2} c_{x1} - a_{x2} c_{u1}) - 12 (a_{x1} b_{u1} - a_{u1} b_{x1}) (a_{x1} c_{u2} - a_{u1} c_{x2})^2 (a_{x1} d_{u2} - a_{u1}$ $(a_{y1} d_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} b_{y2} - b_{x2} b_{y1}) - 36 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x1} d_{y2} - a_{y1} c_{x2})^2 (a_{y1} d_{y2} - a_{y1} d_{y2})^2 + (a_{y1} d_{y2} - a_{y1} d_{y2} - a_{y1} d_{y2})^2 + (a_{y1} d_{y2} - a_{y1} d_{y2} - a_{y1} d_{y2})^2 + (a_{y1} d_{y2} - a_{y1} d_{y2} - a_{y1} d_{y2})^2 + (a_{y1} d_{y2} - a_{y1} d_{y2} - a_{y1} d_{y2})^2 + (a_{y1} d_{y2} - a_{y1} d_{y2} - a_{y1} d_{y2})^2 + (a_{y1} d_{y2} - a_{y1} d_{y2} - a_{y1} d_{y2})^2 + (a_{y1} d_{y2} - a_{y1} d_{y2} - a_{y1} d_{y2})^2 + (a_{y1} d_{y2} - a_{y1} d_{y2} - a_{y1} d_{y2})^2 + (a_{y1} d_{y2} - a_{y1} d_{y2} - a_{y1} d_{y2})^2 + (a_{y1} d_{y2} - a_{y1} d_{y2} - a_{y1} d_{y2})^2 + (a_{y1} d_{y2} - a_{y1} d_{y2} - a_{y1} d_{y2})^2 + (a_{y1} d_{y2} - a_{y1} d_{y2} - a_{y1} d_{y2})^2 + (a_{y1} d_{y2} - a_{y1} d_{y2} - a_{y1} d_{y2})$ $(a_{y1} d_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} b_{y2} - b_{x2} b_{y1}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} d_{y2} - a_{y1} b_{x2})^2 (a_{x1} d_{y2} - a_{y1} b_{x2})^2 (a_{y1} d_{y2} - a_{y1} d_{y2})^2 (a_{y1} d_{y2} - a_{y1}$ $(a_{y1} d_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) + 6 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y2} - a_{y1} b_{x2}) (a_{y1} d_{y2} - a_{y1} d_{y2})$ $(a_{y1} d_{x2})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} b_{y2} - b_{x2} b_{y1}) - 18 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (a_{x2} b_{y2} - a_{y1} d_{x2})^2 (a_{y2} b_{y1} - a_{y1} d_{y2})^2 (a_{y2} b_{y1} - a_$ $(a_{y2} b_{x2}) (b_{x1} b_{y2} - b_{x2} b_{y1}) - 36 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (a_{y2} b_{x1} - a_{y1} b_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (a_{y2} b_{x1} - a_{y1} b_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (a_{y2} b_{x1} - a_{y1} b_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (a_{y2} b_{x1} - a_{y1} b_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (a_{y2} d_{x1} - a_{y1} d_{x2})^2 (a_{y2} d_{x2} - a_{y1} d_{x2})^2 (a_{y2} d_{x1} - a_{y1} d_{x2})$ $(a_{x2} b_{y1}) (b_{x1} b_{y2} - b_{x2} b_{y1}) - 6 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (a_{y2} b_{x1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (a_{y2} b_{x1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (a_{y2} b_{x1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (a_{y2} b_{x1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (a_{y2} b_{x1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (a_{y2} b_{x1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (a_{y2} b_{x1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (a_{y2} b_{x1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (a_{y2} b_{x1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (a_{y2} b_{x1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (a_{y2} b_{x1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (a_{y2} b_{x1} - a_{y1} b_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (a_{y2} d_{y2} - a_{y1} d_{x2})^2 (a_{y2} d_{y2} - a_{y1} d_{y2})^2 (a$ $(a_{x2} b_{y1})^2 - 36 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} c_{y2} - a_{y1} d_{x2})^2$ $b_{y1} c_{x2}$)+12 $(a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x2} d_{y2} - a_{y2} d_{x2}) (b_{x1} d_{y1} - a_{y1} b_{x1})^2 (a_{x2} c_{y2} - a_{y1} c_{x2}) (a_{x2} c_{y2} - a_{y2} c_{y2}) (a_{$ $(b_{y1} d_{x1}) - 48 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x2} b_{y2} - a_{y2} b_{x2}) (b_{x1} b_{y2} - b_{x2} b_{y1}) - (b_{x1} b_{y2} - b_{y2} b_{y1}) - (b_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x2} b_{y2} - a_{y2} b_{x2}) (a_{x1} b_{y2} - b_{x2} b_{y1}) - (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x2} b_{y2} - a_{y2} b_{x2}) (a_{x1} b_{y2} - a_{y2} b_{y1}) - (a_{x2} b_{y2} - a_{y2} b_{x2}) (a_{x2} b_{y2} - a_{y2} b_{y2}) (a_{x2} b_{y2} - a_$ $6\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)^{2}\left(a_{y2}\,b_{x1}-a_{x2}\,b_{y1}\right)\left(b_{x1}\,c_{y2}-b_{y1}\,c_{x2}\right)+$ $12\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{2}\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)^{2}\left(a_{y2}\,b_{x1}-a_{x2}\,b_{y1}\right)\left(b_{x1}\,b_{y2}-b_{x2}\,b_{y1}\right)+12\left(a_{x1}\,b_{y2}-b_{y2}\,b_{y1}\right)$ $(a_{y1} b_{x2})^2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) - 30 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - b_{y1} d_{x2})^2 (a_{y2} b_{y1} - a_{y1} b_{y1})^2 (a_{y1} b_{y2} - b_{y1} d_{x2})^2 - 30 (a_{y1} b_{y1} - a_{y1} b_{x1})^2 (a_{y1} b_{y2} - b_{y1} d_{x2})^2 - 30 (a_{y1} b_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{y1} - a_{y1} b_{x1})^2 - 30 (a_{y1} b_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{y1} - a_{y1} b_{x1})^2 - 30 (a_{y1} b_{y1} - a_{y1} b_{y1} - a_{y1} b_{x1})^2 - 30 (a_{y1} b_{y1} - a_{y1} b_{y1} - a_{y1} b_{x1})^2 - 30 (a_{y1} b_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1})^2 - 30 (a_{y1} b_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1})^2 - 30 (a_{y1} b_{y1} - a_{y1} b_{y1$ $(a_{u1} b_{u2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{y2} d_{x1} - a_{x2} d_{y1}) (b_{y2} c_{x1} - b_{x2} c_{y1}) - 30 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} c_{y1}) (a_{y2} d_{y1} - a_{y2} d_{y1}) (a_{y1} d_{y2} - a_{y2} a_{y1}) (a_{y1} d_{y1} - a_{y1} c_{y1}) (a_{y2} d_{y1} - a_{y2} d_{y1}) (a_{y2} d_{y2} - a_{y2} d_{y1}) (a_{y2} d_{y2} - a_{y2} d_{y2}) (a_{y2}$ $(a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{y2} c_{x1} - a_{x2} c_{y1}) (c_{y2} d_{x1} - c_{x2} d_{y1}) + 4 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x1}) (a_{y2} c_{x1} - a_{y2} c_{y1}) + 4 (a_{y1} c_{y2} c_{y1} - a_{y1} c_{y1}) + 4 (a_{y1} c_{y1} c_{y2} c_{y1} - a_{y1} c_{y1}) + 4 (a_{y1} c_{y1} c_{y1} c_{y1} c_{y1} c_{y1} c_{y1} c_{y1}) + 4 (a_{y1} c_{y1} c_{$ $(a_{u1} b_{u2})^3 (b_{u1} c_{u2} - b_{u1} c_{u2}) (b_{u1} d_{u1} - b_{u1} d_{u1}) + 12 (a_{u1} b_{u1} - a_{u1} b_{u1})^2 (a_{u1} b_{u2} - a_{u1} b_{u2})^2 (b_{u1} c_{u2} - a_{u1} b_{u2})^2 (b_{u2} c_{u2} - a_{u2} b_{u2} - a_{u2} b_{u2})^2 (b_{u2} c_{u2} - a_{u2} b_{u2} - a_{u$ $b_{y1} c_{x2} (b_{y2} d_{x1} - b_{x2} d_{y1}) + 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (b_{x1} b_{y2} - a_{y1} c_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1}$ $b_{x2}\,b_{y1})\,(b_{y2}\,d_{x1}-b_{x2}\,d_{y1})+24\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})\,(a_{x1}\,b_{y2}-a_{y1}\,b_{x2})^2\,(a_{x1}\,c_{y2}-a_{y1}\,c_{x2})\,(b_{x1}\,b_{y2}-a_{y1}\,b_{x2})^2$ $b_{x2}\,b_{y1})\,(b_{x1}\,d_{y1} - b_{y1}\,d_{x1}) + 36\,(a_{x1}\,b_{y1} - a_{y1}\,b_{x1})^2\,(a_{x1}\,c_{y2} - a_{y1}\,c_{x2})^2\,(a_{y2}\,b_{x1} - a_{x2}\,b_{y1})\,(b_{y2}\,d_{x1} - a_{y1}\,b_{x1})^2\,(a_{y2}\,b_{y1} - a_{y1}\,b_{y1})^2\,(a_{y2}\,b_{y1} - a_{y1$ $b_{x2} d_{y1}$) + 48 $(a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} d_{y1} - a_{y1} b_{x2}) (a_{y2} b_{y1} - a_{y1} b_{y2}) (a_{y2} b_{y1} - a_{y1} b_{y2}) (a_{y1} b_{y2} - a_{y1} b_{y2}) (a_{y1} b_{y2} - a_{y1} b_{y2})^2 (a_{y2} b_{y1} - a_{y2} b_{y1}) (b_{y1} d_{y1} - a_{y1} b_{y2}) (a_{y2} b_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1}) (a_{y1} b_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1}) (a_{y1} b_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1}) (a_{y1} b_{y1} - a_{y1} b_{y1} - a$ $b_{y1} d_{x1}$)+36 $(a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (b_{x1} c_{y2} - b_{y1} c_{x2}) (c_{y2} d_{x1} - a_{y1} b_{x2}) (c_{y2} d_{x1} - a_{y2} a_{y1}) (c_{y2} d_{x1} - a_{y1} b_{x2}) (c_{y2} d_{x1} - a_{y1} b_{x2}) (c_{y2} d_{x1} - a_{y1} a_{x2}) (c_{y2$ $(a_{x1} a_{y1}) + 36 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (b_{x1} b_{y2} - b_{x2} b_{y1}) (d_{x1} d_{y2} - a_{y1} b_{x2})^2 (a_{x1} a_{y2} - a_{y1} b_{x2}) (a_{x1} a_{y2} - a_{y2} a_{y1}) (a_{x1} a_{y2} - a_{y1} b_{x2})^2 (a_{x1} a_{y2} - a_{y2} a_{y1}) (a_{x2} a_{y2} - a_{y2} a_{y2}) (a_{x2} a_{y2} - a_{y2} a_{y2} - a_{y2} a_{y2} - a_{y2} a_{y2}) (a_{x2} a_{y2} - a_{y2} a_{y2} - a_{y2} a_{y2} - a_{y2} a_{y2} a_{y2}) (a_{x2} a_{y2} - a_{y2} a_{y2} - a_{y2} a_{y2} a_{y2}) (a_{x2} a_{y2} - a_{y2} a_{y2} - a_$ $d_{x2} d_{y1}) + 12 \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right) \left(a_{x1} b_{y2} - a_{y1} b_{x2}\right)^{2} \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right) \left(a_{y2} b_{x1} - a_{x2} b_{y1}\right) \left(b_{x1} d_{y1} - a_{y1} b_{x2}\right)^{2} \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right) \left(a_{y2} b_{x1} - a_{x2} b_{y1}\right) \left(a_{x1} d_{y1} - a_{y1} b_{x2}\right)^{2} \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right) \left(a_{y2} b_{x1} - a_{x2} b_{y1}\right) \left(a_{y1} d_{y1} - a_{y1} d_{y2}\right)^{2} \left(a_{y1} d_{y2} - a_{y1} d_{y2}\right) \left(a_{y2} d_{y1} - a_{y1} d_{y2}\right) \left(a_{y2} d_{y1} - a_{y1} d_{y2}\right) \left(a_{y1} d_{y2} - a_{y1} d_{y2}\right) \left(a_{y2} d_{y1} - a_{y1} d_{y2}\right) \left(a_{y1} d_{y2} - a_{y1} d_{y2}\right) \left(a_{y2} d_{y1} - a_{y1} d_{y2}\right) \left(a_{y1} d_{y2} - a_{y1} d_{y2}\right) \left(a_{y2} d_{y1} - a_{y1} d_{y2}\right) \left(a_{y2} d_{y1} - a_{y1} d_{y2}\right) \left(a_{y2} d_{y1} - a_{y1} d_{y2}\right) \left(a_{y1} d_{y1} - a_{y1} d_{y2}\right) \left(a_{y2} d_{y1} - a_{y1} d_{y2}\right) \left(a_{y2} d_{y1} - a_{y1} d_{y2}\right) \left(a_{y1} d_{y1} - a_{y1} d_{y1}\right) \left($

 $(b_{y1} d_{x1}) + 36 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{y2} d_{x1} - a_{x2} d_{y1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) +$ $72\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(b_{x1}\,b_{y2}-b_{x2}\,b_{y1}\right)\left(b_{x1}\,d_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{y$ $b_{y1} d_{x1}$)+12 $(a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x1} d_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x2}) (a_{x1$ $(b_{y1} d_{x1}) + 36 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{y2} d_{x1} - a_{y2} d_{x2})$ $(a_{x2} d_{y1}) + 36 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} d_{y2} - b_{y1} d_{x2}) (c_{y2} d_{x1} - c_{x2} d_{y1}) +$ $72\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(a_{y2}\,b_{x1}-a_{x2}\,b_{y1}\right)\left(b_{x1}\,d_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,a_{y2}-a_{y1}\,a_{x2}\right)\left(a_{y2}\,b_{x1}-a_{x2}\,b_{y1}\right)\left(a_{x1}\,d_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,a_{y2}-a_{y1}\,a_{x2}\right)\left(a_{y2}\,b_{x1}-a_{x2}\,b_{y1}\right)\left(a_{x1}\,d_{y1}-a_{y1}\,a_{x2}\right)\left(a_{y2}\,b_{x1}-a_{x2}\,b_{y1}\right)\left(a_{x1}\,a_{y1}-a_{y1}\,a_{x2}\right)\left(a_{y2}\,a_{y1}-a_{y1}\,a_{x2}\right)\left(a_{y2}\,a_{y1}-a_{y1}\,a_{y1}-a_{y1}\,a_{y1}\right)\left(a_{y1}\,a_{y1}-a_{y1}\,a_{y1}-a_{y1}\,a_{y1}\right)\left(a_{y1}\,a_{y1}-a_{y1}\,a_{y1}-a_{y1}\,a_{y1}\right)\left(a_{y1}\,a_{y1}-a_{y1}\,a_{y1}-a_{y1}\,a_{y1}\right)\left(a_{y1}\,a_{y1}-a_{y1}\,a_{y1}-a_{y1}\,a_{y1}\right)\left(a_{y1}\,a_{y1}-a_{$ $b_{y1} d_{x1}) - 42 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (b_{x1} d_{y1} - b_{y1} d_{x1})^2 - a_{y1} b_{y2} (a_{y1} a_{y2} - a_{y1} a_{y2})^2 (a_{y1} a_{y1} - a_{y1} a_{y2})^2 - a_{y1} a_{y2} (a_{y1} a_{y2} - a_{y1} a_{y2})^2 (a_{y1} a_{y2} - a_{y1} a_{y2})^2 - a_{y1} a_{y2} (a_{y1} a_{y2} - a_{y1} a_{y2})^2 (a_{y1} a_{y2} - a_{y1} a_{y2})^2 - a_{y1} a_{y2} (a_{y1} a_{y2} - a_{y1} a_{y2})^2 (a_{y1} a_{y1} - a_{y1} a_{y2})^2 - a_{y1} a_{y2} (a_{y1} a_{y2} - a_{y1} a_{y2})^2 (a_{y1} a_{y1} - a_{y1} a_{y2})^2 - a_{y1} a_{y2} (a_{y1} a_{y2} - a_{y1} a_{y2})^2 (a_{y1} a_{y1} - a_{y1} a_{y2})^2 - a_{y1} a_{y2} (a_{y1} a_{y1} - a_{y1} a_{y2})^2 (a_{y1} a_{y1} - a_{y1} a_{y2})^2 - a_{y1} a_{y2} (a_{y1} a_{y1} - a_{y1} a_{y2})^2 (a_{y1} a_{y1} - a_{y1} a_{y2})^2 - a_{y1} a_{y1} a_{y2} (a_{y1} a_{y1} - a_{y1} a_{y2})^2 - a_{y1} a_{y1} a_{y2} (a_{y1} a_{y1} - a_{y1} a_{y2})^2 - a_{y1} a_{y1} a_{y1} a_{y1} a_{y2} (a_{y1} a_{y1} - a_{y1} a_{y1} a_{y2})^2 - a_{y1} a_{y$ $72\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)\left(a_{y2}\,d_{x1}-a_{x2}\,d_{y1}\right)\left(b_{x1}\,b_{y2}-b_{x2}\,b_{y1}\right) 6\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)\left(a_{y2}\,d_{x1}-a_{x2}\,d_{y1}\right)\left(b_{x1}\,c_{y2}-b_{y1}\,c_{x2}\right) 18\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)^{2}\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(b_{x1}\,d_{y1}-b_{y1}\,d_{x1}\right)\left(c_{y2}\,d_{x1}-c_{x2}\,d_{y1}\right)-36\left(a_{x1}\,a_{y2}-a_{y2}\,a_{y1}\right)^{2}$ $(a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} d_{y1} - a_{y1} d_{x2}) (a_{y2} b_{y1} - a_{y2} b_{y1}) (a_{y1} d_{y1} - a_{y1} d_{y1}) (a_{y2} b_{y1} - a_{y2} b_{y1}) (a_{y1} d_{y1} - a_{y1} d_{y1}) (a_{y2} d_{y1} - a_{y2} d_{y1}) (a_{y1} d_{y1} - a_{y1} d_{y1}) (a_{y2} d_{y1} - a_{y2} d_{y1}) (a_{y2} d_{y1} - a_{y2} d_{y2}) (a_{y2} d_{y2} - a_{y2} d_{y2}) (a_{y2} d_{y2} - a_{y2} d_{y2}) (a_{y2} d_{y2} - a_{y2} d_{y2}) (a_{y2} d_{y$ $(b_{y1} d_{x1}) - 12(a_{x1} b_{y2} - a_{y1} b_{x2})^2(a_{x1} c_{y1} - a_{y1} c_{x1})^2(a_{y2} b_{x1} - a_{x2} b_{y1})(b_{x1} d_{y1} - b_{y1} d_{x1}) - b_{y1} d_{x1}$ $12\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)^{2}\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{2}\left(b_{x1}\,c_{y2}-b_{y1}\,c_{x2}\right)\left(b_{x1}\,d_{y1}-b_{y1}\,d_{x1}\right)+30\left(a_{x1}\,a_{y2}-a_{y2}\,a_{y1}\right)^{2}$ $(a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (c_{x1} c_{y2} - c_{x2} c_{y1})^2 - 60 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{y1})^2$ $(a_{u1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (b_{y2} c_{x1} - b_{x2} c_{y1}) (c_{x1} c_{y2} - c_{x2} c_{y1}) + 18 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{y2}) (a_{y1} c_{y2} - a_{y1} c_{y2}) (a_{y2} c_{y1} - a_{y1} c_{y2}) (a_{y1} c_{y2} - a_{y1} c_{y2}) (a_{y2} c_{y1} - a_{y1} c_{y2}) (a_{y1} c_{y2} - a_{y1} c_{y2}) (a_{y1} c_{y1} - a_{y1} c_{y2}) (a_{y1} c_{y2} - a_{y1} c_{y2}) (a_$ $(a_{y1} c_{x2})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) (b_{y2} c_{x1} - b_{x2} c_{y1}) + 30 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y2} - a_{y1} a_{y1}) + 30 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y2} - a_{y1} a_{y1} a_{y1} - a_{y1} a_{y1$ $(a_{u1} d_{u2}) (b_{u2} c_{x1} - b_{x2} c_{u1})^2 - 60 (a_{x1} a_{u2} - a_{x2} a_{u1}) (a_{x1} b_{u1} - a_{u1} b_{x1})^2 (a_{x1} b_{u2} - a_{u1} b_{x2}) (b_{u2} c_{x1} - a_{u2} a_{u1}) (a_{x1} b_{u2} - a_{u1} b_{x2})^2 - 60 (a_{x1} a_{u2} - a_{x2} a_{u1}) (a_{x1} b_{u1} - a_{u1} b_{x1})^2 (a_{x1} b_{u2} - a_{u1} b_{x2}) (a_{u2} c_{x1} - a_{u2} a_{u1}) (a_{u2} c_{u2} - a_{u2} a_{u1})^2 - 60 (a_{u2} a_{u2} - a_{u2} a_{u1}) (a_{u2} a_{u2} - a_{u2} a_{u1})^2 - 60 (a_{u2} a_{u2} - a_{u2} a_{u1}) (a_{u2} a_{u2} - a_{u2} a_{u1})^2 - 60 (a_{u2} a_{u2} - a_{u2} a_{u1}) (a_{u2} a_{u2} - a_{u2} a_{u1})^2 - 60 (a_{u2} a_{u2} - a_{u2} a_{u1}) (a_{u2} a_{u2} - a_{u2} a_{u1}) (a_{u2} a_{u2} - a_{u2} a_{u2}) (a_{u2} a_{u2} - a_{u2} a_{u2}$ $b_{x2} c_{y1}) (c_{x1} d_{y2} - c_{y1} d_{x2}) + 18 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) (c_{x1} d_{y2} - a_{y1} b_{x2})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) (c_{x1} d_{y2} - a_{y1} b_{x2})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) (c_{x1} d_{y2} - a_{y1} b_{x2})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) (c_{x1} d_{y2} - a_{y1} b_{x2})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) (c_{x1} d_{y2} - a_{y1} b_{x2})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) (c_{x1} d_{y2} - a_{y1} b_{x2})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) (c_{x1} d_{y2} - a_{y1} b_{x2})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) (c_{x1} d_{y2} - a_{y1} b_{x2})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) (c_{x1} d_{y2} - a_{y1} b_{x2})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) (c_{x1} d_{y2} - a_{y1} b_{x2})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) (c_{x1} d_{y2} - a_{y1} b_{x2})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) (c_{x1} d_{y2} - a_{y1} b_{x2})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) (c_{x1} d_{y2} - a_{y1} b_{x2})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) (c_{x1} d_{y2} - a_{y1} b_{x2})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) (c_{x1} d_{y2} - a_{y1} b_{x2})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) (c_{x1} d_{y2} - a_{y1} b_{x2})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) (c_{x1} d_{y2} - a_{y1} b_{x2})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) (c_{x1} d_{y2} - a_{y1} b_{x2})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) (c_{x1} d_{y2} - a_{y1} b_{x2})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) (c_{x1} d_{y2} - a_{y1} b_{x2})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) (c_{x1} d_{y2} - a_{y1} b_{x2})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) (c_{x1} d_{y2} - a_{y1} b_{x2})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) (c_{x1} d_{y2} - a_{y1} b_{x2})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) (c_{x1} d_{y2} - a_{y1} b_{x2})^2 (a_{y2} c_{x1} - a_{y2} c_{x1}) (c_{x1} d_{y2} - a_{y1} b_{x2})^2 (a_{y2} c_{x1} - a_{y2} c_{x1}) (c_{x1} d_{y2} - a_{y1} b_{x2})^2 (a_{y2} c_{x1} - a_{y2} c_{x2}) (c_{x1} d_{y2} - a_{y2} c_{y2}) (c_{x1} d_{y2} - a_{y2} c_{y2}) (c_{x1} d_{y2} (c_{y1} d_{x2}) + 30 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} c_{x1} - a_{x2} c_{y1})^2 - (a_{y1} d_{y2}) (a_{y2} c_{y1} - a_{y1} c_{y2}) (a_{y2} c_{y2} -$ $60\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)\left(a_{y2}\,c_{x1}-a_{x2}\,c_{y1}\right)\left(c_{x1}\,d_{y2}-c_{y1}\,d_{x2}\right)+$ $18\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)^{2}\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(c_{x1}\,c_{y2}-c_{x2}\,c_{y1}\right)\left(c_{x1}\,d_{y2}-c_{y1}\,d_{x2}\right)+12\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)^{2}\left(a_{x1}\,a_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)^{2}\left(a_{x1}\,a_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)^{2}\left(a_{x1}\,a_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)^{2}\left(a_{x1}\,a_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)^{2}\left(a_{x1}\,a_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)^{2}\left(a_{x1}\,a_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)^{2}\left(a_{x1}\,a_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)^{2}\left(a_{x1}\,a_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,a_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)^{2}\left(a_{x1}\,a_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,a_{y1}-a$ $(a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) (c_{x1} d_{y1} - c_{y1} d_{x1}) + 12 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} a_{y1})^2 (a_{y1} a_{y1} - a_{y1} a_{y1} - a_{y1} a_{y1} - a_{y1} a_{y1} a_{y1})^2 (a_{y1} a_{y1} - a_{y1} a_{y1} - a_{y1} a_{y1} a_{y1} - a_{y1} a_{$ $(a_{y1} b_{x1})^2 (c_{x1} c_{y2} - c_{x2} c_{y1}) (c_{x1} d_{y1} - c_{y1} d_{x1}) + 4 (a_{x1} b_{y2} - a_{y1} b_{x2})^3 (a_{x1} c_{y1} - a_{y1} c_{x1}) (b_{x1} c_{y1} - a_{y1} c_{x1}) (b_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{$ $b_{y1} c_{x1} (b_{x1} c_{y2} - b_{y1} c_{x2}) - 6 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (b_{x1} c_{y2} - a_{y1} b_{x2})^2$ $b_{y1}\,c_{x2})\,(b_{y2}\,c_{x1}-b_{x2}\,c_{y1})+18\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})\,(a_{x1}\,b_{y2}-a_{y1}\,b_{x2})\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})\,(a_{x1}\,c_{y2}-a_{y1}\,b_{x2})\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})\,(a_{x1}\,c_{y2}-a_{y1}\,b_{x2})\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})\,(a_{x1}\,c_{y2}-a_{y1}\,b_{x2})\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})\,(a_{x1}\,c_{y2}-a_{y1}\,b_{x2})\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})\,(a_{x1}\,c_{y2}-a_{y1}\,b_{x2})\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})\,(a_{x1}\,c_{y2}-a_{y1}\,b_{x2})\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})\,(a_{x1}\,c_{y2}-a_{y1}\,b_{x2})\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})\,(a_{x1}\,c_{y2}-a_{y1}\,b_{x2})\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})\,(a_{x1}\,c_{y2}-a_{y1}\,b_{x2})\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})\,(a_{x1}\,c_{y2}-a_{y1}\,b_{x2})\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})\,(a_{x1}\,c_{y2}-a_{y1}\,b_{x2})\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})\,(a_{x1}\,c_{y2}-a_{y1}\,b_{x2})\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})\,(a_{x1}\,c_{y2}-a_{y1}\,b_{x2})\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})\,(a_{x1}\,c_{y2}-a_{y1}\,b_{x2})\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})\,(a_{x1}\,c_{y2}-a_{y1}\,b_{x2})\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})\,(a_{x1}\,c_{y2}-a_{y1}\,b_{x2})\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})\,(a_{x1}\,c_{y2}-a_{y1}\,b_{x2})\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})\,(a_{x1}\,c_{y2}-a_{y1}\,b_{x2})\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})\,(a_{x1}\,c_{y2}-a_{y1}\,b_{x2})\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})\,(a_{x1}\,c_{y2}-a_{y1}\,b_{x2})\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})\,(a_{x1}\,c_{y2}-a_{y1}\,b_{x2})\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})\,(a_{x1}\,c_{y2}-a_{y1}\,b_{x2})\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})\,(a_{x1}\,c_{y2}-a_{y1}\,b_{x2})\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})\,(a_{x1}\,c_{y2}-a_{y1}\,b_{x2})\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})\,(a_{x1}\,c_{y2}-a_{y1}\,b_{x2})\,(a_{x1}\,c_{y2}-a_{y1}\,b_{x2})\,(a_{x1}\,c_{y1}-a_{y1}\,b_{x2})\,(a_{x1}\,c_{y2}-a_{y1}\,b_{x2})\,(a_{x1}\,c_{y1}-a_{y1}\,b_{x2})\,(a_{x1}\,c_{y2}-a_{y1}\,b_{x2})\,(a_{x1}\,c_{y1}-a_{y1}\,b_{x2})\,(a_{x1}\,c_{y2}-a_{y1}\,b_{x2})\,(a_{x1}\,c_{y2}-a_{y1}\,b_{x2})\,(a_{x1}\,c_{y2}-a_{y1}\,b_{x2})\,(a_{x1}\,c_{y2}-a_{y1}\,b_{x2})\,(a_{x1}\,c_{y2}-a_{y1}\,b_{x2})\,(a_{x1}\,c_{y2}-a_{y1}\,b_{x2})\,(a_{x1}\,c_{y2}-a_{y1}\,b_{x2})\,(a_{x1}\,c_{y2}-a_{y1}\,b_{x2})\,(a_{x1}\,c_{y2}-a$ $a_{y1} c_{x2}$) $(b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{y2} c_{x1} - b_{x2} c_{y1}) + 24 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} b_{x2}) (a_{x1$ $a_{y1} c_{x1}$) $(a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (c_{x1} c_{y2} - c_{x2} c_{y1}) + 24 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} c_{x2}) (a_{y2} c_{y1}) + 24 (a_{y2} c_{y2} c_{y2} c_{y1}) + 24 (a_{y2} c_{y2} c_{y2} c_{y1}) + 24 (a_{y2} c_{y2} c_{y2} c_{y2}) + 24 (a_{y2} c_{y2} c_{y2} c_{y2}) + 24 (a_{y2} c_{y2} c_{y2} c_{y2} c_{y2}) + 24 (a_{y2} c_{y2} c_{y2} c_{y2} c_{y2} c_{y2}) + 24 (a_{y2} c_{y2} c_{y2$ $(a_{u1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{y2} c_{x1} - b_{x2} c_{y1}) + 24 (a_{x1} a_{y2} - a_{y1} d_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{y2} c_{x1} - b_{x2} c_{y1}) + 24 (a_{x1} a_{y2} - a_{y1} d_{x2}) (a_{y2} b_{x1} - a_{y2} b_{y1}) (a_{y2} c_{x1} - b_{x2} c_{y1}) + 24 (a_{y2} a_{y1} - a_{y1} d_{y2}) (a_{y2} a_{y1} - a_{y1} d_{y2$ $(a_{x1} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} c_{x1} - a_{x2} c_{y1}) (b_{x1} c_{y2} - a_{y1} d_{x2}) (a_{y2} c_{x1} - a_{x2} c_{y1}) (a_{x1} c_{y2} - a_{y1} d_{x2}) (a_{y2} c_{x1} - a_{x2} c_{y1}) (a_{x1} c_{y2} - a_{y1} d_{x2}) (a_{y2} c_{x1} - a_{y2} c_{y1}) (a_{x1} c_{y2} - a_{y1} d_{x2}) (a_{y2} c_{x1} - a_{y2} c_{y1}) (a_{y2} c_{x2} - a_{y2} c_{y1}) (a_{y2} c_{x2} - a_{y2} c_{y2}) (a_{y2} c_{y2} - a_{y2} c_{y2}) (a_{y2} c_{y$ $b_{y1}\,c_{x2}) - 24\left(a_{x1}\,b_{y1} - a_{y1}\,b_{x1}\right)\left(a_{x1}\,b_{y2} - a_{y1}\,b_{x2}\right)\left(a_{x1}\,c_{y1} - a_{y1}\,c_{x1}\right)\left(a_{x1}\,d_{y1} - a_{y1}\,d_{x1}\right)\left(a_{y2}\,b_{x1} - a_{y1}\,d_{x2}\right)\left(a_{x1}\,d_{y1} - a_{y1}\,d_{x2}\right)\left(a_{x1}\,d_{x2}\right)\left(a_{x1}\,d_{x2}\right)\left(a_{x1}\,d_{x2}\right)\left(a_{x1}\,d_{x2}\right)\left(a_{x1}\,d_{x2}\right)\left(a_{x1}\,d_{x2}\right)\left(a_{x1}\,d_{x2}\right)\left(a_{x1}\,d_{x2}\right)\left(a_{x1}\,d_{x2}\right)\left(a_{x1}\,d_{x2}\right)\left(a_{x1$ $(a_{x2} b_{y1}) (b_{y2} c_{x1} - b_{x2} c_{y1}) - 24 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y1} - a_{y1} a_{x1}) (a_{x1} c_{y1} - a_{y1} a_{x1}) (a_{x1} d_{y1} - a_{y1} a_{x1}) (a_{x1}$ $(a_{y1} d_{x1}) (a_{y2} c_{x1} - a_{x2} c_{y1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) + 6 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x2} b_{y2} - a_{y1} c_{x2})^3 (a_{y1} c_{y2} - a_{y1} c_{y2})^2 (a_{y2} c_{y2} - a_{y2} c_{y2} - a_{y2} c_{y2})^2 (a_{y2} c_{y2} - a_{y2} c_{y2} - a_{y2} c_{y2})^2 (a_{y2} c_{y2} - a_{y2} c_{y2} - a_{y2} c_{y2} c_{y2})^2 (a_{y2} c_{y2} - a_{y2} c_{y2} - a_{y2} c_{y2} c_{y2})^2 (a_{y2} c_{y2} - a_{y2} c_{y2} - a_{y2} c_{y2} c_{y2} c_{y2})^2 (a_{y2} c_{y2} - a_{y2} c_{y2} c_{y2$ $(a_{y2} b_{x2}) - 12 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x2} c_{y2} - a_{y2} c_{x2}) +$ $12\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{3}\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(a_{x2}\,b_{y2}-a_{y2}\,b_{x2}\right)+18\left(a_{x1}\,b_{y2}-a_{y2}\,b_{x2}\right)$ $(a_{y1} b_{x2})^2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} c_{x1} - a_{x2} c_{y1}) + 6 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{y1} c_{y1} - a_{y1} c_{x1})^2 (a_{y1} c_{y1} - a_{y1} c_{y1}) + 6 (a_{y1} c_{y1} - a_{y1} c_{y1})^2 (a_{y1} c_{y1} - a_{y1} c_{y1} c_{y1})^2 (a_{y1} c_{y1} - a_{y1} c_{y1} c_{y1} - a_{y1} c_{y1} c_{y1})^2 (a_{y1} c_{y1} c_{y1} - a_{y1} c_{y1} c_{$ $(a_{y1} c_{x1})^3 (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x2} c_{y2} - a_{y2} c_{x2}) + 18 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} c_{y2} - a_{y2} c_{x2}) + 18 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} c_{y2} - a_{y2} c_{x2}) + 18 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} c_{y2} - a_{y2} c_{x2}) + 18 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} c_{y2} - a_{y2} c_{x2}) + 18 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} c_{y2} - a_{y2} c_{x2}) + 18 (a_{x1} a_{y2} - a_{y2} a_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} c_{y2} - a_{y2} c_{x2}) + 18 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} c_{y2} - a_{y2} c_{x2}) + 18 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} c_{y2} - a_{y2} c_{x2}) + 18 (a_{x1} a_{y2} - a_{y2} a_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} c_{y2} - a_{y2} a_{y1}) (a_{x2} c_{y2} - a_{y2} a_{y2}) + 18 (a_{x1} a_{y2} - a_{y2} a_{y1}) (a_{x2} c_{y2} - a_{y2} a_{y2}) (a_{x2} c_{y2} - a_{y2} a_{y2}) + 18 (a_{x1} a_{y2} - a_{y2} a_{y2}) (a_{x2} c_{y2} - a_{y2} a_{y2}) (a_{x2} c_{y2} - a_{y2} a_{y2}) + 18 (a_{x2} a_{y2} - a_{y2} a_{y2}) (a_{x2} a_{y2} - a_{y2} a_{y2} a_{y2}) (a_{x2} a_{y2} - a_{y2} a_{y2} a_{y2} a_{y2} a_{y2}) (a_{x2} a_{y2} - a_{y2} a$ $(a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} c_{x1} - a_{x2} c_{y1}) - 12 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} d_{y1} - a_{y1} c_{x1})^3 (a_{y1} c_{y1} - a_{y1} c_{y1})^3 (a_{y1} c_{y1} - a_{y1} c_{y1} c_{y1})^3 (a_{y1} c_{y1} - a_{y1} c_{y1} c_{y1} c_{y1})^3 (a_{y1} c_{y1} - a_{y1} c_{y1} c_{y1$ $a_{y1} d_{x1}) (a_{x2} b_{y2} - a_{y2} b_{x2}) - 18 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{y2} c_{x1} - a_{y1} d_{x1}) (a_{$ $a_{x2} c_{y1}$) - 6 $(a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x2} c_{y2} - a_{y2} c_{x2})$ - $18\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{2}\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)\left(a_{y2}\,c_{x1}-a_{x2}\,c_{y1}\right) 32\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)^{3}\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)-24\left(a_{x1}\,a_{y2}-a_{y1}\,c_{x2}\right)$

 $a_{x2} a_{y1}) \left(a_{x1} b_{y2} - a_{y1} b_{x2}\right) \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right) \left(a_{x1} c_{y2} - a_{y1} c_{x2}\right)^{2} \left(b_{x1} d_{y2} - b_{y1} d_{x2}\right) + 72 \left(a_{x1} a_{y2} - a_{y1} c_{x2}\right)^{2} \left(a_{x1} a_{y2} - a_{y$ $(a_{x2} a_{y1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} d_{y2} - b_{y1} d_{x2}) - 216 (a_{x1} a_{y2} - a_{y1} d_{x2})^2 (a_{y1} a_{y2} - a_{y1} a_{y2}) - 216 (a_{y1} a_{y2} - a_{y1} a_{y2}) -$ $(a_{x2} a_{y1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) - 72 (a_{x1} a_{y2} - a_{y1} b_{x2})^2 (a_{x1} a_{y1} - a_{y1} a_{x1}) (a_{x1} a_{y1} - a_{y1} a_{x1}) (a_{x1} a_{y2} - a_{y1} a_{x2}) - 72 (a_{x1} a_{y1} - a_{y1} a_{x2}) - 72 (a_{x1} a_{y1} a_{y1} - a_{y1} a_{x2}) - 72 (a_{x1} a_{y1} a_{y1} - a_{y1} a_{y1} a_{y1} a_{y1} a_{y1}) - 72 (a_{x1} a_{y1} a_{y1} a_{y1} a_{y1} a_{y1} a_{y1} a_{y1} a$ $(a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (c_{x1} d_{y2} - c_{y1} d_{x2}) + 24 (a_{x1} b_{y1} - a_{y1} d_{x2}) + 24 (a_{x1$ $(a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^3 (a_{x1} d_{y2} - a_{y1} d_{x2}) (c_{x1} c_{y2} - c_{x2} c_{y1}) + 144 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x2})^3 (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} c_{y2} - a_{x2} c_{y1}) + 144 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} a_{y2}) (a_{x1} a_{y2} - a_{y1} a_{y$ $(a_{u1} b_{u1}) (a_{x1} b_{u2} - a_{u1} b_{x2}) (a_{x1} c_{u2} - a_{u1} c_{x2}) (a_{x1} d_{u2} - a_{u1} d_{x2}) (c_{x1} c_{u2} - c_{x2} c_{u1}) + 36 (a_{x1} a_{u2} - a_{u1} c_{x2}) (a_{x2} c_{u2} - a_{u2} c_{u2}) + 36 (a_{x2} c_{u2} - a_{x2} c_{u2}) + 36 (a_{x2} c_{u2$ $(a_{x1}\,a_{y1})^2\,(a_{x1}\,b_{y1} - a_{y1}\,b_{x1})\,(a_{x1}\,d_{y2} - a_{y1}\,d_{x2})^2\,(c_{x1}\,c_{y2} - c_{x2}\,c_{y1}) + 72\,(a_{x1}\,a_{y2} - a_{x2}\,a_{y1})^2\,(a_{x1}\,b_{y1} - a_{y2}\,a_{y1})^2\,(a_{x2}\,a_{y2} - a_{y2}\,a_{y2})^2\,(a_{x2}\,a_{y2} - a_$ $(a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (c_{x2} d_{y2} - c_{y2} d_{x2}) + 72 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{y1} c_{y1} - a_{y1} c_{y1}) (a_{y$ $(a_{y1} c_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (b_{x1} c_{y2} - b_{y1} c_{x2}) - 24 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^3 (a_{x1} d_{y1} - a_{y1} b_{x2})^3 (a_{y1} d_{y2} - a_{y1} d_{y2})^3 (a_{y1} d_{y2} - a_{y$ $(a_{y1} d_{x1}) (c_{x1} c_{y2} - c_{x2} c_{y1}) - 72 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x$ $a_{y1} d_{x2}$) $(c_{x1} c_{y2} - c_{x2} c_{y1}) + 36 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (c_{x1} c_{y2} - a_{y1} a_{y1})^2 (a_{x1} a_{y2} - a_{y1} a_{y1$ $(c_{x2} c_{y1}) + 72 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} b_{y2} - a_{y1} d_{x2}) (b_{x1} b_{y2} - a_{y1} d_{x2}) (a_{x1} c_{y2} - a_{y1} d_{x2}) (a_{x$ $(b_{x2} b_{y1}) - 72 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x1}) (b_{y2} c_{x1} - a_{y1} c_{x2})^2$ $b_{x2}\,c_{y1}) - 144\left(a_{x1}\,a_{y2} - a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1} - a_{y1}\,b_{x1}\right)\left(a_{x1}\,b_{y2} - a_{y1}\,b_{x2}\right)\left(a_{x1}\,d_{y1} - a_{y1}\,d_{x1}\right)\left(a_{x1}\,d_{y2} - a_{y1}\,b_{x2}\right)$ $(a_{u1} d_{u2}) (b_{u2} c_{x1} - b_{x2} c_{u1}) + 72 (a_{x1} b_{u1} - a_{u1} b_{x1}) (a_{x1} c_{u1} - a_{u1} c_{x1}) (a_{x1} c_{u2} - a_{u1} c_{x2})^2 (a_{x1} d_{u2} - a_{u1} c_{x2})^2 (a_{x1} d_{u2} - a_{u1} c_{u2})^2 (a_{x1} d_{u2} - a_{u1}$ $(a_{x1} d_{x2}) (a_{x2} b_{y2} - a_{y2} b_{x2}) + 144 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x1} d_{y2} - a_{y1} c_{x2})^2 (a_{x1} d_{y2} - a_{y1} c_{x2})^2 (a_{x2} d_{y2} - a_{y1} d_{x2})^2 (a_{x2} d_{y2} - a_{y2} d_{y2} - a_{y2} d_{x2})^2 (a_{x2} d_{y2} - a_{y2} d_{y2})^2 (a_{x2} d_{y2} - a_{y2} d_{y2} - a_{y2} d_{y2} - a_{y2} d_{y2})^2 (a_{x2} d_{y2} - a_{y2} d_$ $a_{y1} d_{x2}$) $(a_{y2} b_{x1} - a_{x2} b_{y1}) + 72 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y2} - a_{y1} b_{x2}) (a_{y1} c_{y1} - a_{y1} c_{y1}) (a_{y1} d_{y2} - a_{y1} b_{y2}) (a_{y1} c_{y1} - a_{y1} c_{y1}) (a_{y1} d_{y2} - a_{y1} b_{y2}) (a_{y1} c_{y1} - a_{y1} c_{y1}) (a_{y1} d_{y2} - a_{y1} b_{y2}) (a_{y1} c_{y1} - a_{y1} c_{y1}) (a_{y1$ $(a_{y1} d_{x2})^2 (a_{x2} b_{y2} - a_{y2} b_{x2}) + 108 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (a_{y2} c_{x1} - a_{y1} d_{x2})^2$ $(a_{x2} c_{y1}) + 72 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (a_{y2} c_{x1} - a_{y2} a_{y1}) (a_{x1} a_{y2} - a_{y1} a_{y2})^2 (a_{y2} a_{y1} a_{y2} - a_{y1} a_{y2})^2 (a_{y2} a_{y1} a_{y2} - a_{y1} a_{y2} a_{y1} a_{y2})^2 (a_{y2} a_{y1} a_{y2} - a_{y1} a_{y2} a_{y2} a_{y1} a_{y2} a_{y2} a_{y1} a_{y2} a_{y2} a_{y1} a_{y2} a_{y2}$ $a_{x2} c_{v1}$) - 72 $(a_{x1} b_{v2} - a_{v1} b_{x2}) (a_{x1} c_{v1} - a_{v1} c_{x1}) (a_{x1} c_{v2} - a_{v1} c_{x2})^2 (a_{x1} d_{v1} - a_{v1} d_{x1}) (a_{v2} b_{x1} - a_{v1} d_{x2})^2$ $a_{x2}b_{y1}$) - 144 $(a_{x1}a_{y2} - a_{x2}a_{y1})(a_{x1}c_{y1} - a_{y1}c_{x1})(a_{x1}c_{y2} - a_{y1}c_{x2})(a_{x1}d_{y1} - a_{y1}d_{x1})(a_{x1}d_{y2} - a_{y1}c_{y2})$ $(a_{y1} d_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1}) + 36 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{y2} c_{x1} - a_{y1} d_{x2})^2$ $a_{x2} c_{y1}$)+72 $(a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x2} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x2} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x2} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x2} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x2} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{x2} d_{y2} - a_{y1} d_{x1})^2 (a_{x2} d_{y1} - a_{y1} d_{x1})^2 (a_{x2} d_$ $(a_{y2} b_{x2}) + 72 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) +$ $72\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)^{2}\left(a_{y2}\,b_{x1}-a_{x2}\,b_{y1}\right) 24\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)^{3}\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)\left(b_{x1}\,d_{y1}-b_{y1}\,d_{x1}\right)-72\left(a_{x1}\,b_{y1}-a_{y1}\,c_{x2}\right)$ $(a_{x1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (b_{y2} d_{x1} - b_{x2} d_{y1}) - 144 (a_{x1} a_{y2} - a_{y1} c_{x2}) (a_{y2} d_{y1} - a_{y1} d_{y2}) - 144 (a_{y1} a_{y2} - a_{y1} d_{y2}) - 144 (a_{y1} a_{y1} - a_{y1} d_{y2}) - 144 (a_{y1} a_{y2} - a_{y1} d_{y2}) - 14$ $a_{x2} a_{y1}) \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right) \left(a_{x1} b_{y2} - a_{y1} b_{x2}\right) \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right) \left(a_{x1} c_{y2} - a_{y1} c_{x2}\right) \left(c_{y2} d_{x1} - a_{y1} c_{x2}\right) \left(a_{x1} c_{y1} - a_{y1$ $c_{x2} d_{y1}) - 72 \left(a_{x1} a_{y2} - a_{x2} a_{y1}\right) \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right) \left(a_{x1} b_{y2} - a_{y1} b_{x2}\right) \left(a_{x1} c_{y2} - a_{y1} c_{x2}\right)^{2} \left(c_{x1} d_{y1} - a_{y1} b_{x2}\right) \left(a_{x1} c_{y2} - a_{y1} c_{x2}\right)^{2} \left(c_{x1} d_{y1} - a_{y1} b_{x2}\right) \left(a_{x1} c_{y2} - a_{y1} c_{x2}\right)^{2} \left(c_{x1} d_{y1} - a_{y1} b_{x2}\right) \left(a_{x1} c_{y2} - a_{y1} c_{x2}\right)^{2} \left(c_{x1} d_{y1} - a_{y1} b_{x2}\right) \left(a_{x1} c_{y2} - a_{y1} c_{x2}\right)^{2} \left(c_{x1} d_{y1} - a_{y1} b_{x2}\right) \left(a_{x1} c_{y2} - a_{y1} c_{x2}\right)^{2} \left(c_{x1} d_{y1} - a_{y1} b_{x2}\right) \left(a_{x1} c_{y2} - a_{y1} c_{x2}\right)^{2} \left(c_{x1} d_{y1} - a_{y1} b_{x2}\right) \left(a_{x1} c_{y2} - a_{y1} c_{x2}\right)^{2} \left(c_{x1} d_{y1} - a_{y1} b_{x2}\right) \left(a_{x1} c_{y2} - a_{y1} c_{x2}\right)^{2} \left(c_{x1} d_{y1} - a_{y1} b_{x2}\right)^{2} \left(c_{x1} d_{y1}$ $c_{y1}\,d_{x1}) - 72\left(a_{x1}\,b_{y1} - a_{y1}\,b_{x1}\right)\left(a_{x1}\,b_{y2} - a_{y1}\,b_{x2}\right)^2\left(a_{x1}\,c_{y1} - a_{y1}\,c_{x1}\right)\left(a_{x1}\,d_{y2} - a_{y1}\,d_{x2}\right)\left(a_{y2}\,d_{x1} - a_{y1}\,c_{x1}\right)\left(a_{x1}\,d_{y2} - a_{y1}\,d_{x2}\right)\left(a_{y2}\,d_{x1} - a_{y1}\,d_{x2}\right)\left(a_{y2}\,d_{x1} - a_{y1}\,d_{x2}\right)\left(a_{y1}\,d_{y2} - a_{y1}\,d_{x2}\right)\left(a_{y2}\,d_{x1} - a_{y1}\,d_{x2}\right)\left(a_{y1}\,d_{y2} - a_{y1}\,d_{y2}\right)\left(a_{y1}\,d_{y2} - a_{y1}\,d_{y2}\right)\left(a_{y1}\,d_{y2} - a_{y1}\,d_{y2}\right)\left(a_{y1}\,d_{y2} - a_{y1}\,d_{y2}\right)\left(a_{y1}\,d_{y2} - a_{y1}\,d_{y2}\right)\left(a_{y1}\,d_{y2} - a_{y1}\,d_{y2}\right)\left(a_{y1}\,d_{y2} - a_{y1}\,d_{y2}\right)\left(a_{y2}\,d_{y1} - a_{y1}\,d_{y2}\right)\left(a_{y1}\,d_{y2} - a_{y1}\,d_{y2}\right)\left(a_{y1}\,d$ $a_{x2} d_{y1}) - 144 \left(a_{x1} a_{y2} - a_{x2} a_{y1}\right)^{2} \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right) \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right) \left(a_{x1} c_{y2} - a_{y1} c_{x2}\right) \left(d_{x1} d_{y2} - a_{y1} c_{x2}\right) \left(d_{x1} d_{y$ $d_{x2} d_{y1}) - 72 \left(a_{x1} a_{y2} - a_{x2} a_{y1}\right)^2 \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right) \left(a_{x1} c_{y2} - a_{y1} c_{x2}\right) \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right) \left(b_{x1} d_{y1} - a_{y1} c_{x2}\right) d_{y1} d_{y2} - a_{y1} d_{y2} d_{y1} d_{y2} - a_{y1} d_{y2} d_{y1} d_{y2} d_{y2} d_{y1} d_{y2} d_{y1}$ $b_{y1} d_{x1} + 72 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x1}) (c_{x1} d_{y1} - a_{y1} d_{x1}) (c_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x$ $(c_{y1} d_{x1}) + 72 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (c_{x1} d_{y1} - a_{y1} d_{x2})$ $c_{y1} d_{x1}$

 $c_{8} = -60 \left(a_{x1} \, a_{y2} - a_{x2} \, a_{y1}\right)^{2} \left(a_{x1} \, b_{y2} - a_{y1} \, b_{x2}\right) \left(a_{x1} \, d_{y1} - a_{y1} \, d_{x1}\right)^{3} + 180 \left(a_{x1} \, a_{y2} - a_{x2} \, a_{y1}\right)^{2} \left(a_{x1} \, b_{y2} - a_{y1} \, b_{x2}\right) \left(a_{x1} \, d_{y1} - a_{y1} \, d_{x1}\right)^{2} \left(a_{x1} \, d_{y2} - a_{y1} \, d_{x2}\right) + 90 \left(a_{x1} \, a_{y2} - a_{x2} \, a_{y1}\right)^{2} \left(a_{x1} \, c_{y2} - a_{y1} \, c_{x2}\right)^{2} \left(a_{x1} \, d_{y1} - a_{y1} \, d_{x1}\right)^{2} + 180 \left(a_{x1} \, a_{y2} - a_{x2} \, a_{y1}\right) \left(a_{x1} \, b_{y2} - a_{y1} \, b_{x2}\right)^{2} \left(a_{x1} \, c_{y2} - a_{y1} \, c_{x2}\right) \left(a_{x1} \, d_{y1} - a_{y1} \, d_{x1}\right)^{2} + 15 \left(a_{x1} \, b_{y2} - a_{y1} \, b_{x2}\right)^{4} \left(a_{x1} \, d_{y1} - a_{y1} \, d_{x1}\right)^{2} - 180 \left(a_{x1} \, a_{y2} - a_{x2} \, a_{y1}\right)^{2} \left(a_{x1} \, b_{y2} - a_{y1} \, b_{x2}\right) \left(a_{x1} \, d_{y1} - a_{y1} \, d_{x1}\right)^{2} - 180 \left(a_{x1} \, a_{y2} - a_{x2} \, a_{y1}\right)^{2} \left(a_{x1} \, c_{y2} - a_{y1} \, c_{x2}\right)^{2} \left(a_{x1} \, d_{y1} - a_{y1} \, d_{x1}\right) \left(a_{x1} \, d_{y2} - a_{y1} \, d_{x2}\right)^{2} - 180 \left(a_{x1} \, a_{y2} - a_{x2} \, a_{y1}\right)^{2} \left(a_{x1} \, c_{y2} - a_{y1} \, c_{x2}\right)^{2} \left(a_{x1} \, d_{y1} - a_{y1} \, d_{x1}\right) \left(a_{x1} \, d_{y2} - a_{y1} \, d_{x2}\right)^{2} - 180 \left(a_{x1} \, a_{y2} - a_{x2} \, a_{y1}\right)^{2} \left(a_{x1} \, c_{y2} - a_{y1} \, c_{x2}\right)^{2} \left(a_{x1} \, d_{y1} - a_{y1} \, d_{x1}\right) \left(a_{x1} \, d_{y2} - a_{y1} \, d_{x2}\right)^{2} - 180 \left(a_{x1} \, a_{y2} - a_{x2} \, a_{y1}\right)^{2} \left(a_{x1} \, c_{y2} - a_{y1} \, c_{x2}\right)^{2} \left(a_{x1} \, d_{y1} - a_{y1} \, d_{x1}\right) \left(a_{x1} \, d_{y2} - a_{y1} \, d_{x2}\right)^{2} - 180 \left(a_{x1} \, a_{y2} - a_{y2} \, a_{y1}\right)^{2} \left(a_{x1} \, d_{y2} - a_{y1} \, d_{x2}\right)^{2} \left(a_{x1} \, d_{y1} - a_{y1} \, d_{x1}\right)^{2} + 180 \left(a_{x1} \, a_{y2} - a_{y1} \, d_{x2}\right)^{2} - 180 \left(a_{x1} \, a_{y2} - a_{y1} \, a_{y1}\right)^{2} \left(a_{x1} \, d_{y2} - a_{y1} \, d_{x2}\right)^{2} - 180 \left(a_{x1} \, a_{y2} - a_{y1} \, a_{y2}\right)^{2} \left(a_{x1} \, d_{y1} - a_{y1} \, d_{x1}\right)^{2} + 180 \left(a_{x1} \, a_{y2} - a_{y1} \, a_{y2}\right)^{2} - 180 \left(a_{x1} \, a_{y2} - a_{y1} \, a_{y1}\right)^{2} \left(a_{x1} \, a_{y2} - a_{y1} \, a_{y2}\right)^{2} + 180 \left(a_{x1} \, a_{y2} - a_{y1} \, a_{y2}\right)^{2} + 18$

 $a_{y1} d_{x2}) - 360 \left(a_{x1} a_{y2} - a_{x2} a_{y1}\right) \left(a_{x1} b_{y2} - a_{y1} b_{x2}\right)^{2} \left(a_{x1} c_{y2} - a_{y1} c_{x2}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right) \left(a_{x1} d_{y2} - a_{y1} c_{x2}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right) \left(a_{x1} d_{y2} - a_{y1} c_{x2}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right) \left(a_{x1} d_{y2} - a_{y1} c_{x2}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right) \left(a_{x1} d_{y2} - a_{y1} c_{x2}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right) \left(a_{x1} d_{y2} - a_{y1} c_{x2}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right) \left(a_{x1} d_{y2} - a_{y1} c_{x2}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right) \left(a_{x1} d_{y2} - a_{y1} c_{x2}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right) \left(a_{x1} d_{y2} - a_{y1} c_{x2}\right) \left(a_{x1} d_{y1} - a_{y1} d_{x1}\right) \left(a_{x1} d_{y2} - a_{y1} d_{x1}\right) \left(a_{x1} d_{y$ $a_{y1} d_{x2}) - 120 \left(a_{x1} a_{y2} - a_{x2} a_{y1} \right) \left(a_{x1} b_{y2} - a_{y1} b_{x2} \right) \left(a_{x1} c_{y2} - a_{y1} c_{x2} \right)^3 \left(a_{x1} d_{y1} - a_{y1} d_{x1} \right) - 120 \left(a_{x1} a_{y2} - a_{x2} a_{y1} \right) \left(a_{x1} b_{y2} - a_{y1} b_{x2} \right) \left(a_{x1} c_{y2} - a_{y1} c_{x2} \right)^3 \left(a_{x1} d_{y1} - a_{y1} d_{x1} \right) - 120 \left(a_{x1} a_{y2} - a_{x2} a_{y1} \right) \left(a_{x1} b_{y2} - a_{y1} b_{x2} \right) \left(a_{x1} c_{y2} - a_{y1} c_{x2} \right)^3 \left(a_{x1} d_{y1} - a_{y1} d_{x1} \right) - 120 \left(a_{x1} a_{y2} - a_{x2} a_{y1} \right) \left(a_{x1} a_{y2} - a_{y1} b_{x2} \right) \left(a_{x1} a_{y2} - a_{y1} a_{x1} \right) - 120 \left(a_{x1} a_{y2} - a_{x2} a_{y1} \right) \left(a_{x1} a_{y2} - a_{y1} a_{x2} \right) + 120 \left(a_{x1} a_{y2} - a_{x2} a_{y1} \right) \left(a_{x1} a_{y2} - a_{y1} a_{x2} \right) + 120 \left(a_{x1} a_{y2} - a_{x2} a_{y1} \right) \left(a_{x1} a_{y2} - a_{y1} a_{x2} \right) + 120 \left(a_{x1} a_{y2} - a_{x2} a_{y1} \right) \left(a_{x1} a_{y2} - a_{y1} a_{x2} \right) + 120 \left(a_{x1} a_{y2} - a_{x2} a_{y1} \right) \left(a_{x1} a_{y2} - a_{y1} a_{x2} \right) + 120 \left(a_{x1} a_{y2} - a_{x2} a_{y1} \right) \left(a_{x1} a_{y2} - a_{y1} a_{x2} \right) + 120 \left(a_{x1} a_{y2} - a_{x2} a_{y1} \right) \left(a_{x1} a_{y2} - a_{y1} a_{x2} \right) + 120 \left(a_{x1} a_{y2} - a_{x2} a_{y1} \right) \left(a_{x1} a_{y2} - a_{y1} a_{x2} \right) + 120 \left(a_{x1} a_{y2} - a_{y1} a_{x2$ $30\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)^{4}\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)-60\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)^{3}\left(a_{x1}\,c_{y2}-a_{y1}\,d_{x2}\right)$ $(a_{u1} c_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x1}) + 60 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^3 +$ $90\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)^{2}\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)^{2}\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)^{2}+180\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y2}-a_{y2}\,a_{y1}\right)^{2}$ $(a_{u1} b_{u2})^2 (a_{x1} c_{u2} - a_{u1} c_{x2}) (a_{x1} d_{u2} - a_{u1} d_{x2})^2 + 120 (a_{x1} a_{u2} - a_{x2} a_{u1}) (a_{x1} b_{u2} - a_{u1} b_{x2}) (a_{x1} c_{u2} - a_{u2} a_{u1}) (a_{x2} b_{u2} - a_{u1} b_{u2}) (a_{x2} c_{u2} - a_{u2} a_{u1}) (a_{x2} b_{u2} - a_{u2} b_{u2}) (a_{x2} c_{u2} - a_{u2} a_{u2}) (a$ $(a_{u1} c_{x2})^3 (a_{x1} d_{u2} - a_{u1} d_{x2}) + 6 (a_{x1} a_{u2} - a_{x2} a_{u1}) (a_{x1} c_{u2} - a_{u1} c_{x2})^5 + 15 (a_{x1} b_{u2} - a_{u1} b_{x2})^4 (a_{x1} d_{u2} - a_{u1} d_{x2})^4 (a_{x1} d_{u2}$ $(a_{y1} d_{x2})^2 + 60 (a_{x1} b_{y2} - a_{y1} b_{x2})^3 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) + 15 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 + 10 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x1} c_{y2} - a_{y1} c_{y2})^2 (a_{x1}$ $(a_{y1} c_{x2})^4 - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} d_{y1} - b_{y1} d_{x1}) +$ $12\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{y2}\,b_{x1}-a_{x2}\,b_{y1}\right)^{2}\left(b_{x1}\,b_{y2}-b_{x2}\,b_{y1}\right)\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)+6\left(a_{x1}\,b_{y1}-a_{y2}\,b_{y1}\right)^{2}\left(a_{y2}\,b_{x1}-a_{x2}\,b_{y1}\right)^{2}\left(a_{y2}\,b_{x1}-a_{x2}\,b_{y1}\right)^{2}$ $(a_{y1}b_{x1})^2(a_{y2}b_{x1}-a_{x2}b_{y1})^2(b_{x1}c_{y2}-b_{y1}c_{x2})^2+12(a_{x1}b_{y1}-a_{y1}b_{x1})^2(a_{y2}b_{x1}-a_{x2}b_{y1})(b_{x1}b_{y2}-b_{y1}c_{x2})^2+12(a_{x1}b_{y1}-a_{y1}b_{x1})^2(a_{y2}b_{x1}-a_{x2}b_{y1})(b_{x1}b_{y2}-b_{y1}c_{x2})^2+12(a_{x1}b_{y1}-a_{y1}b_{x1})^2(a_{y2}b_{x1}-a_{x2}b_{y1})(a_{y1}b_{y2}-a_{y1}b_{x1})^2$ $(b_{x2} b_{y1})^2 (b_{x1} c_{y2} - b_{y1} c_{x2}) + (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} b_{y2} - b_{x2} b_{y1})^4 + 21 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y2} b_{y1})^4 + 21 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y2} b_{y1})^4 + 21 (a_{x1} a_{y2} - a_{y2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y2} b_{y1})^4 + 21 (a_{x1} a_{y2} - a_{y2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y2} a_{y1})^2 (a_{x1} a_{y2} - a_{y2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} a_{y2} - a_{y2} a_{y1})^2 (a_{x1} a_{y2} - a_{y2} a_{y2} a_{y1})^2 (a_{x1} a_{y2} - a_{y2} a_{y$ $(a_{y1} b_{x1})^2 (c_{x1} c_{y2} - c_{x2} c_{y1})^2 + 3 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{y2} c_{x1} - a_{x2} c_{y1})^2 + 3 (a_{y1} b_{y1} - a_{y1} b_{x1})^2 (a_{y1} c_{y2} - a_{y1} c_{x2})^2 (a_{y2} c_{x1} - a_{x2} c_{y1})^2 + 3 (a_{y1} b_{y1} - a_{y1} b_{x1})^2 (a_{y1} c_{y2} - a_{y1} c_{x2})^2 (a_{y2} c_{x1} - a_{x2} c_{y1})^2 + 3 (a_{y1} b_{y1} - a_{y1} b_{x1})^2 (a_{y1} c_{y2} - a_{y1} c_{x2})^2 (a_{y2} c_{x1} - a_{y2} c_{y1})^2 + 3 (a_{y1} c_{y2} - a_{y1} c_{x2})^2 (a_{y2} c_{x1} - a_{y2} c_{y1})^2 + 3 (a_{y1} c_{y2} - a_{y1} c_{x2})^2 (a_{y2} c_{x1} - a_{y2} c_{y1})^2 + 3 (a_{y1} c_{y2} - a_{y1} c_{x2})^2 (a_{y2} c_{x1} - a_{y2} c_{y1})^2 + 3 (a_{y1} c_{y2} - a_{y1} c_{x2})^2 (a_{y2} c_{x1} - a_{y2} c_{y1})^2 + 3 (a_{y1} c_{y2} - a_{y1} c_{x2})^2 (a_{y2} c_{x1} - a_{y2} c_{y1})^2 + 3 (a_{y1} c_{y2} - a_{y1} c_{x2})^2 (a_{y2} c_{x1} - a_{y2} c_{y1})^2 + 3 (a_{y1} c_{y2} - a_{y1} c_{y2} - a_{y1} c_{y2})^2 (a_{y2} c_{x1} - a_{y2} c_{y1})^2 + 3 (a_{y1} c_{y2} - a_{y1} c_{y2} - a_{y1} c_{y2})^2 (a_{y2} c_{x1} - a_{y2} c_{y1})^2 + 3 (a_{y1} c_{y2} - a_{y1} c_{y2} - a_{y1} c_{y2})^2 (a_{y2} c_{y1} - a_{y2} c_{y1})^2 + 3 (a_{y1} c_{y2} - a_{y1} c_{y2} - a_{y2} c_{y1})^2 + 3 (a_{y1} c_{y2} - a_{y1} c_{y2} - a_{y2} c_{y2})^2 (a_{y2} c_{y2} - a_{y2} c_{y2} - a_{y2} c_{y2})^2 + 3 (a_{y2} c_{y2} - a_{y2} c_{y2} - a_{y2} c_{y2})^2 (a_{y2} c_{y2} - a_{y2} c_{y2} - a_{y2} c_{y2})^2 + 3 (a_{y2} c_{y2} - a_{y2} c_{y2} - a_{y2} c_{y2})^2 + 3 (a_{y2} c_{y2} - a_{y2} c_{y2} - a_{y2} c_{y2})^2 + 3 (a_{y2} c_{y2} - a_{y2} c_{y2} - a_{y2} c_{y2} - a_{y2} c_{y2})^2 + 3 (a_{y2} c_{y2} - a_{y2} c_{y2} - a_{y2} c_{y2})^2 + 3 (a_{y2} c_{y2} - a_{y2} c_{y2} - a_{y2} c_{y2} - a_{y2} c_{y2})^2 + 3 (a_{y2} c_{y2} - a_{y2} c_{y2} 6\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)^{2}\left(b_{y2}\,c_{x1}-b_{x2}\,c_{y1}\right)^{2}+6\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{2}\left(a_{x1}\,c_{y2}-a_{y1}\,b_{x2}\right)^{2}$ $(a_{u1} c_{x2})^2 (a_{u2} b_{x1} - a_{x2} b_{u1})^2 + 144 (a_{x1} a_{u2} - a_{x2} a_{u1})^2 (a_{x1} b_{u1} - a_{u1} b_{x1}) (a_{x1} b_{u2} - a_{u1} b_{x2}) (a_{x1} c_{u1} - a_{u1} b_{u2}) (a_{x1} c_{u1} - a_{u2} b_{u1})^2 + 144 (a_{x1} a_{u2} - a_{x2} a_{u1})^2 (a_{x1} b_{u1} - a_{u1} b_{x1}) (a_{x1} b_{u2} - a_{u1} b_{x2}) (a_{x1} c_{u1} - a_{u2} b_{u1})^2 + 144 (a_{x1} a_{u2} - a_{u2} a_{u1})^2 (a_{x1} b_{u1} - a_{u1} b_{x1}) (a_{x1} b_{u2} - a_{u1} b_{x2}) (a_{x1} c_{u1} - a_{u2} a_{u1})^2 + 144 (a_{x1} a_{u2} - a_{u2} a_{u1})^2 (a_{x1} a_{u1} - a_{u2} a_{u1}) (a_{x1} a_{u2} - a_{u1} a_{u2}) (a_{x1} a_{u2} - a_{u1} a_{u2}) (a_{x1} a_{u2} - a_{u2} a_{u1})^2 (a_{x1} a_{u2} - a_{u2} a_{u2})^2 (a_{x1} a_{u2} - a_{u2} a_{u2} - a_{u2} a_{u2})^2 (a_{x1} a_{u2} - a_{u2} a_{u2} - a_{u2} a_{u2})^2 (a_{x1} a_{u2} - a$ $(a_{y1} c_{x1}) (d_{x1} d_{y2} - d_{x2} d_{y1}) - 12 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (b_{x1} c_{y1} - a_{y1} d_{x2})^2 (a_{x1} a_{y2} - a_{y$ $(b_{y1} c_{x1}) + 96 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} c_{y1} - a_{y1} d_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x$ $(b_{y1} c_{x1}) - 12 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (b_{x1} c_{y1} - b_{y1} c_{x1}) - (b_{y1} c_{y1} a_{y1} a_{y1$ $18\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)^{2}\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)^{2}+6\left(a_{x1}\,a_{y2}-a_{y1}\,b_{x2}\right)^{2}+6\left(a_{x1}\,a_{y2}-a_{y1$ $(a_{x2} a_{y1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (c_{x1} d_{y2} - c_{y1} d_{x2}) + 36 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} c_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) + 36 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) + 36 (a_{x1} a_{y2} - a_{y1} a_{y1} - a_{y1} a_{y1} - a_{y1} a_{y1} a_{y1})^2 (a_{x1} d_{y2} - a_{y1} a_{y1} - a_{y1} a_{y1} a_{y1} - a_{y1} a_{y1} a_{y1} a_{y1} - a_{y1} a_{y$ $(a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) - 18 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x2}) (a_{y1} b_{y1} - a_{y1} b_{y1}) (a_{y1} b_{y2} - a_{y1} b_{y2}) (a_{y1} b_{y1} - a_{y1} b_{y1}) (a_{y1} b_{y1} - a_{y1} b_{y2}) (a_{y1} b_{y1} - a_{y1} b_{y1}) (a_{y1} b_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1}) (a_{y1} b_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1}) (a_{y1} b_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1}) (a_{y1} b_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1}) (a_{y1} b_{y1} - a_{y1} b_{y1} - a_{y$ $(a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1})^2 - 6 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} b_{x2}) (a_{$ $(a_{y1} c_{x1})^2 (c_{x1} d_{y1} - c_{y1} d_{x1}) + 36 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (b_{x1} c_{y2} - a_{y2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (b_{x1} c_{y2} - a_{y2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (b_{x1} c_{y2} - a_{y1} b_{x2})^2 (a_{x1} a_{y1} - a_{y1} a_{x1}) (a_{x1} a_{y2} - a_{y1} a_{x2})^2 (a_{x1} a_{y1} - a_{y1} a_{x2})$ $b_{y1} c_{x2} (b_{x1} d_{y1} - b_{y1} d_{x1}) + 60 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (b_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} a_{y2} - a_{y1} a_{x2}) (a_{x1}$ $b_{y1}\,c_{x2})\,(b_{x1}\,d_{y1} - b_{y1}\,d_{x1}) + 6\,(a_{x1}\,a_{y2} - a_{x2}\,a_{y1})\,(a_{x1}\,b_{y2} - a_{y1}\,b_{x2})^2\,(a_{x1}\,c_{y1} - a_{y1}\,c_{x1})^2\,(c_{x1}\,c_{y2} - a_{y1}\,a_{y1})^2\,(a_{x1}\,a_{y2} - a_{y1}\,a_{y1})^2\,(a_{y1}\,a_{y1} - a_{y1}\,a_{y1})^2\,(a_{y1}\,a_{y2} - a_{y1}\,a_{y1})^2\,(a_{y1}\,a_{y1} - a_{y1}$ $(c_{x2} c_{y1}) + 12 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (c_{x1} c_{y2} - c_{x2} c_{y1}) - (c_{x1} c_{y2} - a_{y1} c_{x2}) (c_{x1} c_{y2} - c_{x2} c_{y1}) - (c_{x1} c_{y2} - a_{y1} c_{x2}) (c_{x1} c_{y2} - c_{x2} c_{y1}) - (c_{x1} c_{y2} - a_{y1} c_{x2}) (c_{x1} c_{y2} - c_{x2} c_{y1}) - (c_{x1} c_{y2} - a_{y1} c_{x2}) (c_{x1} c_{y2} - c_{x2} c_{y1}) - (c_{x1} c_{y2} - a_{y1} c_{x2}) (c_{x1} c_{y2} - c_{x2} c_{y1}) - (c_{x1} c_{y2} - c_{x2} c_{y2}) - (c_{x1} c_{y2} - c_{y2} c_{y2}) - (c_{x1} c_{y2} - c_{y2} c_{y2}) - (c_{x1} c_{y2} - c_{y2} c_{y2$ $36\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)^{2}\left(b_{x1}\,c_{y2}-b_{y1}\,c_{x2}\right)\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right) 60\left(a_{x1}\,a_{v2}-a_{x2}\,a_{v1}\right)^{2}\left(a_{x1}\,b_{v1}-a_{v1}\,b_{x1}\right)\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)\left(b_{x1}\,c_{y2}-b_{y1}\,c_{x2}\right)\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right) 96\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)^{2}\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)\left(c_{x1}\,d_{y1}-c_{y1}\,d_{x1}\right) 48\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)^{2}\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)^{2}\left(c_{x1}\,d_{y1}-c_{y1}\,d_{x1}\right)+96\left(a_{x1}\,a_{y2}-a_{y1}\,c_{x2}\right)^{2}$ $(a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (c_{x1} d_{y2} - c_{y1} d_{x2}) + 48 (a_{x1} a_{y2} - a_{y1} c_{x2}) (a_{x2} a_{y2} - a_{y1} c_{x2}) (a_{x2} a_{y2} - a_{y1} c_{x2}) + 48 (a_{x2} a_{y2} - a_{y1} c_{x2}) (a_{x2} a_{y2} - a_{y1} c_{x2}) (a_{x2} a_{y2} - a_{y1} c_{x2}) + 48 (a_{x2} a_{y2} - a_{y1} c_{x2}) (a_{x2} a_{y2} - a_{y1} c_{$ $(a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (c_{x1} d_{y2} - c_{y1} d_{x2}) - 48 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y2} - a_{y1} a_{y2}) - 48 (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y2} a_{y2} - a_{y2} a_{y2}) (a_{y2} a_{y2} - a_{y2} a_{y2}$ $(a_{y1} b_{x2})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1}) - 60 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} c_{y1} - a_{y1} c_{x2}) (a_{y1} c_{y1} - a_{y1} c_{y1})^2 (a_{y1} c_{y1} - a_{y1} c_{y1} c_{y1})^2 (a_{y1} c_{y1} - a_{y1} c_{y1} c_{y1} c_{y1})^2 (a_{y1} c_{y1} - a_{y1} c_{y1} c_{y1} c_{y1} c_{y1})^2 (a_{y1} c_{y1} c_{y1}$ $(a_{u1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (b_{x1} d_{y1} - b_{y1} d_{x1}) - 24 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1}) (b_{x1} b_{y2} - a_{y1} c_{x2})^2 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} c_{x2})^2 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} c_{x2})^2 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} c_{x2})^2 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} c_{x2})^2 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} c_{x2})^2 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} c_{x2})^2 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x1}) (a_{x1} b_{y1} - a_{y$ $(b_{x2} b_{y1}) (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{x1} d_{y1} - b_{y1} d_{x1}) + 10 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^3 (b_{x1} b_{x2} - a_{y1}$ $(b_{x2} b_{y1}) (b_{x1} d_{y1} - b_{y1} d_{x1}) - 12 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{y2} c_{x1} - a_{y1} c_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{y1} c_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} c_{y1}$ $b_{x2} c_{y1}$) - 12 $(a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1})^2 (b_{y2} c_{x1} - b_{x2} c_{y1}) +$ $2\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)^{3}\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{2}\left(b_{y2}\,c_{x1}-b_{x2}\,c_{y1}\right)+24\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)^{2}\left(a_{x1}\,b_{y1}-a_{y1}\,c_{x1}\right)^{2}$ $(a_{y1} b_{x1}) (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) - 10 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - b_{y1} d_{x2}) - 10 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - b_{y1} d_{x2}) - 10 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - b_{y1} d_{x2}) - 10 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - b_{y1} d_{x2}) - 10 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - b_{y1} d_{x2}) - 10 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - b_{y1} d_{x2}) - 10 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - b_{y1} d_{x2}) - 10 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - b_{y1} d_{x2}) - 10 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - b_{y1} d_{x2}) - 10 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - b_{y1} d_{x2}) - 10 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - b_{y1} d_{x2}) - 10 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - b_{y1} d_{x2}) - 10 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - b_{y1} d_{x2}) - 10 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - b_{y1} d_{x2}) - 10 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - b_{y1} d_{x2}) - 10 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - b_{y1} d_{x2}) - 10 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - b_{y1} d_{x2}) - 10 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} b_{y2} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} b_{y2} - a$ $(a_{y1} b_{x2})^3 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) - 12 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1}) (b_{x1} c_{y1} - a_{y1} b_{x2}) - 12 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1}) (b_{x1} c_{y1} - a_{y1} b_{x2}) - 12 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1}) (b_{x1} c_{y1} - a_{y1} b_{x2}) - 12 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} a_{y2} - a_{y1} b_{x2}) - 12 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} a_{y1} - a_{y1} b_{x1}) (a_{x1} a_{y2} - a_{y1} a_{y1} - a_{y1} a_{y1}) (a_{x1} a_{y2} - a_{y1} a_{y1} - a_{y1} a_{y1}) (a_{x1} a_{y2} - a_{y1} a_{y1} - a_{y1} a_{y1}) (a_{x1} a_{y2} - a_{y1} a_{y1} - a_{y1} a_{y1} - a_{y1} a_{y1}) (a_{x1} a_{y2} - a_{y1} a_{y1} - a_{y1} a_{y1} - a_{y1} a_{y1}) (a_{x1} a_{y2} - a_{y1} a_{y1} - a_{y1} a_{y1} - a_{y1} a_{y1}) (a_{x1} a_{y2} - a_{y1} a_{y1} - a_{y1}$ $b_{y1}\,c_{x1})\,(b_{x1}\,c_{y2}-b_{y1}\,c_{x2})^2-36\,(a_{x1}\,a_{y2}-a_{x2}\,a_{y1})\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})^2\,(a_{y2}\,c_{x1}-a_{x2}\,c_{y1})\,(b_{x1}\,c_{y2}-a_{y2}\,a_{y1})\,(a_{y2}\,c_{y1}-a_{y2}\,a_{y2})\,(a_{y2}\,c_{y1}-a_{y2}\,a_{y2})\,(a_{y2}\,c_{y1}-a_{y2}\,a_{y2})\,(a_{y2}\,c_{y1}-a_{y2}\,a_{y2})\,(a_{y2}\,c_{y1}-a_{y2}\,a_{y2})\,(a_{y2}\,c_{y1}-a_{y2}\,a_{y2})\,(a_{y2}\,c_{y1}-a_{y2}\,a_{y2})\,(a_{y2}\,c_{y1}-a_{y2}\,a_{y2})\,(a_{y2}\,c_{y1}-a_{y2}\,a_{y2})\,(a_{y2}\,c_{y1}-a_{y2}\,a_{y2})\,(a_{y2}\,c_{y1}-a_{y2}\,a_{y2})\,(a_{y2}\,c_{y1}-a_{y2}\,a_{y2})\,(a_{y2}\,c_{y1}-a_{y2}\,a_{y2})\,(a_{y2}\,c_{y1}-a_{y2}\,a_{y2})\,(a_{y2}\,c_{y1}-a_{y2}\,a_{y2})\,(a_{y2}\,c_{y1}-a_{y2}\,a_{y2})\,(a_{y2}\,c_{y1}-a_{y2}\,a_{y2})\,(a_{y2}\,c_{y$

 $b_{u1}\,c_{x2})^2 - 20\,(a_{x1}\,b_{u1} - a_{u1}\,b_{x1})\,(a_{x1}\,b_{y2} - a_{y1}\,b_{x2})^3\,(b_{x1}\,c_{y2} - b_{y1}\,c_{x2})^2 - 36\,(a_{x1}\,a_{y2} - a_{x2}\,a_{y1})\,(a_{x1}\,b_{y1} - a_{y1}\,b_{x2})^2 + 36\,(a_{x1}\,a_{y2} - a_{x2}\,a_{y1})\,(a_{x1}\,b_{y1} - a_{y1}\,b_{x2})^2 + 36\,(a_{x1}\,a_{y2} - a_{x2}\,a_{y1})\,(a_{x1}\,b_{y1} - a_{y1}\,b_{x2})^2 + 36\,(a_{x1}\,a_{y2} - a_{y1}\,b_{x2})^2 + 36\,(a_{x1}\,a_{y2} - a_{y2}\,a_{y1})\,(a_{x1}\,b_{y1} - a_{y1}\,b_{x2})^2 + 36\,(a_{x1}\,a_{y2} - a_{y2}\,a_{y1})\,(a_{x1}\,b_{y2} - a_{y1}\,b_{x2})^2 + 36\,(a_{x1}\,a_{y2} - a_{x2}\,a_{y1})\,(a_{x1}\,b_{y1} - a_{y1}\,b_{x2})^2 + 36\,(a_{x1}\,a_{y2} - a_{x2}\,a_{y1})\,(a_{x1}\,b_{y2} - a_{y1}\,b_{x2})^2 + 36\,(a_{x1}\,a_{y2} - a_{y2}\,a_{y1})\,(a_{x1}\,b_{y2} - a_{y2}\,a_{y2})^2 + 36\,(a_{x1}\,a_{y2} - a_{y2}\,a_{y2})^2 + 36\,(a_{x$ $(a_{u1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (b_{x1} c_{y2} - b_{y1} c_{x2})^2 - 84 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{y2}) (a_{y1} c_{y2} - a_{y1} c_{y2}) (a_{y1} c_{y2} - a_{y1} c_{y2})^2 - 84 (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y1} b_{y1} - a_{y2} a_{y1}) (a_{y1} c_{y2} - a_{y1} a_{y2}) (a_{y1} c_{y2} - a_{y1} a_{y2}$ $(a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{y2} c_{x1} - a_{x2} c_{y1}) (c_{x1} d_{y1} - c_{y1} d_{x1}) - 24 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x$ $(a_{u1} b_{u2})^3 (a_{x1} d_{u1} - a_{u1} d_{x1}) (b_{u2} c_{x1} - b_{x2} c_{u1}) + 4 (a_{x1} b_{u1} - a_{u1} b_{x1}) (a_{x1} b_{u2} - a_{u1} b_{x2})^4 (c_{x1} d_{u1} - a_{u1} b_{u2})^4 (c_{x1} d_{u1} - a_{u1} d_{u1})^4 (c_{x1} d_{u1} - a_{u1$ $(c_{y1} d_{x1}) + 84 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{y2} c_{x1} - a_{x2} c_{y1}) (c_{x1} d_{y2} - a_{y1} b_{x2})^2 (a_{y1} a_{y1} - a_{y1} a_{y2}) (a_{y2} a_{y1} a_{y2} - a_{y1} a_{y2}) (a_{y2} a_{y1} a_{y2} - a_{y1} a_{y2} - a_{y1} a_{y2}) (a_{y2} a_{y1} a_{y2} - a_{y1} a_{y2} - a_{y1} a_{y2}) (a_{y2} a_{y1} a_{y2} - a_{y1}$ $(c_{y1} d_{x2}) + 24 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^3 (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{y2} c_{x1} - b_{x2} c_{y1}) - (a_{x1} b_{y2} - a_{y1} b_{x2})^3 (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{y2} c_{x1} - b_{x2} c_{y1}) - (a_{x1} b_{y2} - a_{y1} b_{x2})^3 (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{y2} c_{x1} - b_{x2} c_{y1}) - (a_{x1} b_{y2} - a_{y1} b_{x2})^3 (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x2} c_{y1} - a_{y2} c_{y1}) - (a_{x2} c_{y2} - a_{y1} c_{y2}) (a_{x2} c_{y1} - a_{y2} c_{y2}) (a_{x2} c_{y1} - a_{y2} c_{y2}) (a_{x2} c_{y2} - a_{y2}$ $4\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)^{4}\left(c_{x1}\,d_{y2}-c_{y1}\,d_{x2}\right)+24\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)^{4}$ $(a_{x1} \, b_{x2})^3 \, (a_{x1} \, c_{y2} - a_{y1} \, c_{x2}) \, (c_{x1} \, c_{y2} - c_{x2} \, c_{y1}) + 72 \, (a_{x1} \, a_{y2} - a_{x2} \, a_{y1}) \, (a_{x1} \, b_{y1} - a_{y1} \, b_{x1}) \, (a_{x1} \, b_{y2} - a_{y1} \, b_{y2})^2 \, (a_{x1} \, c_{y2} - a_{y1} \, c_{x2}) \, ($ $(a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (c_{x1} c_{y2} - c_{x2} c_{y1}) - 10 (a_{x1} b_{y2} - a_{y1} b_{x2})^4 (a_{x1} c_{y1} - a_{y1} c_{x1}) (b_{x1} d_{y1} - a_{y1} c_{x2})^4$ $(b_{y1} d_{x1}) + 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1})^2 (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{y2} c_{x1} - b_{x2} c_{y1}) +$ $8\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)^{3}\left(b_{y2}\,c_{x1}-b_{x2}\,c_{y1}\right)+40\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)^{3}$ $(a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (a_{y2} b_{x1} - a_{x2} b_{y1}) - 12 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} c_{y2})^3 (a_{y2} b_{x1} - a_{y2} b_{y1}) - 12 (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y1} b_{y1} - a_{y1} c_{y2}) (a_{y1} a_{y1} - a_{y2} a_{y1}) (a_{y2} a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y2} a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y2} a_{y2} - a_{y2} a_{y1}) (a_{y2} a_{y2} - a_{y2} a_{y2}) (a_{y2} a_{y2} (a_{u1} b_{x1})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{y2} c_{x1} - b_{x2} c_{y1}) - 36 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - b_{y1} c_{y2}) (a_{y1} b_{y2} - b_{y1} c_{y2}) (a_{y2} c_{y1} - b_{y2} c_{y1}) - 36 (a_{y1} b_{y2} - a_{y1} b_{y1})^2 (a_{y1} b_{y2} - b_{y2} c_{y1}) - 36 (a_{y1} b_{y2} - a_{y1} b_{y1})^2 (a_{y1} b_{y2} - b_{y2} c_{y1}) - 36 (a_{y1} b_{y2} - a_{y1} b_{y1})^2 (a_{y1} b_{y1} - a_{y1} b_{y1})^2 (a_{y1} b_{y2} - a_{y1} b_{y1})^2 (a_{y1} b_{y2} - a_{y1} b_{y1})^2 (a_{y1} b_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1})^2 (a_{y1} b_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1})^2 (a_{y1} b_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1})^2 (a_{y1} b_{y1} - a_{y1} b_{y1} - a_{y1}$ $(a_{u1} b_{x2}) (a_{u2} b_{x1} - a_{x2} b_{u1}) (b_{x1} b_{u2} - b_{x2} b_{u1}) (c_{x1} c_{u2} - c_{x2} c_{u1}) + 84 (a_{x1} a_{u2} - a_{x2} a_{u1}) (a_{x1} b_{u1} - a_{x2} b_{u1}) (a_{x1} b_{u2} - a_{x2} a_{u1}) (a_{x1} b_{u2} - a_{x2} a_{u2}) (a_{x1}$ $(a_{u1} b_{u1})^2 (a_{x1} b_{u2} - a_{u1} b_{x2}) (b_{u2} c_{x1} - b_{x2} c_{u1}) (c_{x1} c_{u2} - c_{x2} c_{u1}) + 36 (a_{x1} b_{u1} - a_{u1} b_{x1}) (a_{x1} b_{u2} - a_{u1} b_{x2}) (a_{x$ $(a_{y1} b_{x2})^2 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (b_{y2} c_{x1} - b_{x2} c_{y1}) + 48 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} b_{x2})^2 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{y2} c_{x1} - b_{x2} c_{y1}) + 48 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} b_{x2})^2 (a_{y1} c_{y2} - a_{y1} c_{y2})^2 (a_{y2} c_{y1} - a_{y1} c_{y2})^2 (a_{y1} c_{y2} - a_{y1} c_{y2})^2 (a_{y1} c_{y1} - a_{y1} c_{y2})^2 (a_{y1} c_{y2} - a_{y1} c_{y2})^2 (a_{y1} c_{y1} - a_{y1} c_{y2})^2 (a_{y1} c_{y1} - a_{y1} c_{y2})^2 (a_{y1} c_{y1} - a_{y1} c_{y1} - a_{y1} c_{y1})^2 (a_{y1} c_{y1} - a_{y1} c_{y1} - a_{y1$ $a_{y1} c_{x1}$) $(a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} d_{y1} - b_{y1} d_{x1}) + 16 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} b_{x1}) (a_{y1} c_{y1} - a_{y1} b_{y1}) (a_{y1$ $(a_{x1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (a_{x2} b_{y2} - a_{y2} b_{x2}) + 10 (a_{x1} b_{y2} - a_{y1} b_{x2})^4 (a_{x1} c_{y1} - a_{y1} c_{x1}) (b_{x1} d_{y2} - a_{y2} b_{x2})^4$ $(b_{y1} d_{x2}) + 20 (a_{x1} b_{y2} - a_{y1} b_{x2})^3 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (b_{x1} c_{y1} - b_{y1} c_{x1}) + 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} b_{y2}$ $(a_{y1} b_{x2})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{y2} d_{x1} - b_{x2} d_{y1}) + 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (b_{x1} b_{x2} - a_{y1} b_{x2})^2 (b_{x1} b_{x2} - a_{$ $b_{x2}\,b_{y1})\,(b_{x2}\,d_{y2}-b_{y2}\,d_{x2})-4\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})^2\,(a_{y2}\,b_{x1}-a_{x2}\,b_{y1})\,(a_{x2}\,b_{y2}-a_{y2}\,b_{x2})\,(b_{x1}\,c_{y1}-a_{y2}\,b_{y2})$ $(b_{y1} c_{x1})^2 - 6 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x2} c_{y2} - a_{y2} c_{x2}) +$ $4\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)^{2}\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)\left(b_{x1}\,c_{y1}-b_{y1}\,c_{x1}\right)^{3}-4\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{3}\left(a_{y2}\,b_{x1}-a_{y1}\,a_{y1}\,a_{y2}\right)$ $(a_{x2} b_{y1})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) + 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{y2} c_{x1} - a_{x2} c_{y1})^2 (b_{y2} c_{x1} - b_{x2} c_{y1}) +$ $12\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)\left(a_{y2}\,b_{x1}-a_{x2}\,b_{y1}\right)\left(b_{x1}\,c_{y1}-b_{y1}\,c_{x1}\right)\left(b_{y2}\,c_{x1}-a_{y1}\,b_{x1}\right)$ $b_{x2}\,c_{y1}) + 12\,(a_{x1}\,b_{y1} - a_{y1}\,b_{x1})^3\,(a_{y2}\,c_{x1} - a_{x2}\,c_{y1})^2\,(b_{y2}\,c_{x1} - b_{x2}\,c_{y1}) - 6\,(a_{x1}\,b_{y1} - a_{y1}\,b_{x1})^2\,(a_{x1}\,c_{y1} - a_{y1}\,b_{x1})^2\,(a_{x1}\,c_{y1} - a_{y1}\,b_{x1})^2\,(a_{y1}\,c_{y1} - a_{y1}\,b_{y1})^2\,(a_{y1}\,c_{y1} (a_{y1} c_{x1}) (a_{y2} c_{x1} - a_{x2} c_{y1})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) + 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x2} c_{y2} - a_{y1} c_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{y2} c_{y2} - a_{y1} c_{x1})^2 (a_{y2} c_{y1} - a_{y1} c_{y1})^2 (a_{y2} c_{y2} - a_{y1} c_{y1})^2 (a_{y2} c_{y1} - a_{y1} c_{y1})^2 (a_{y2} c_{y2} - a_{y1} c_{y1})^2 (a_{y2} c_{y1} - a_{y1} c_{y1} c_{y1})^2 (a_{y2} c_{y1} - a_{y1} c_{y1} c_{y1} - a_{y1} c_{y1} c_{y1})^2 (a_{y2} c_{y1} - a_{y1} c_{y1} c_{y1$ $a_{u2} c_{x2} (b_{x1} b_{y2} - b_{x2} b_{y1})^2 - 24 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{y2} b_{x1} - a_{y1} c_{x2}) (a_{y2} b_{y2} - a_{y1} c_{y2}) (a_{y2} b_{y2} - a_{y2} c_{y2}) (a_{y2}$ $(a_{x2}\,b_{y1})\,(b_{x1}\,b_{y2}-b_{x2}\,b_{y1})^2-18\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})^2\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})\,(a_{y2}\,b_{x1}-a_{x2}\,b_{y1})^2\,(b_{x2}\,d_{y2}-a_{y1}\,b_{x1})^2$ $b_{y2} d_{x2}$) $-36 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1})^2 (b_{x1} b_{y2} - a_{y1} d_{x2}) (a_{y2} b_{y1} - a_{y2} b_{y1})^2 (a_{y1} b_{y2} - a_{y1} d_{y2}) (a_{y2} b_{y1} - a_{y2} b_{y1})^2 (a_{y2} b_{y2} - a_{y2} b_{y2}) (a_{y2} b_{y2} - a_{y2} b_{y2})^2 (a_{y2} b_{y2} - a_{y2} b_{y2} - a_{y2} b_{y2})^2 (a_{y2} b_{y2} - a_{y2} b_{y2} - a_{y2} b_{y2})^2 (a_{y2} b_{y2} - a_{y2} b_{y2} - a_{y2} b_{y2} - a_{y2} b_{y2})^2 (a_{y2} b_{y2} - a_{y2} b_{y2} - a_{y2}$ $(b_{x2} b_{y1}) - 36 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{x2} d_{y2} - a_{y2} d_{x2}) (b_{x1} b_{y2} - a_{y2} d_{x2}) (a_{x2} d_{y2} - a_{y2} d_{x2}) (a_{x$ $(b_{x2} b_{y1}) - 36 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1})^2 (b_{x1} b_{y2} - a_{y1} d_{x2}) (a_{y2} b_{y1} - a_{y1} b_{y1})^2 (a_{y1} b_{y2} - a_{y1} d_{y2}) (a_{y2} b_{y1} - a_{y1} b_{y1})^2 (a_{y2} b_{y1} - a_{y1} b_{y1})^2 (a_{y1} b_{y2} - a_{y1} d_{y2}) (a_{y2} b_{y1} - a_{y1} b_{y1})^2 (a_{y1} b_{y2} - a_{y1} d_{y2}) (a_{y2} b_{y1} - a_{y1} b_{y1})^2 (a_{y1} b_{y2} - a_{y1} d_{y2}) (a_{y2} b_{y1} - a_{y1} b_{y1})^2 (a_{y1} b_{y2} - a_{y1} d_{y2}) (a_{y2} b_{y1} - a_{y1} b_{y1})^2 (a_{y1} b_{y2} - a_{y1} d_{y2}) (a_{y2} b_{y1} - a_{y1} b_{y1})^2 (a_{y1} b_{y1} - a_{y1} b_{y1} - a_{y1}$ $(b_{x2} b_{y1}) + 18 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{y2} b_{x1} - a_{x2} b_{y1})^2 (b_{y2} d_{x1} - b_{x2} d_{y1}) - (b_{y2} d_{x1} - b_{x2} d_{y1})^2 (b_{y2} d_{x1} - b_{x2} d_{y1}) - (b_{y2} d_{x1} - b_{x2} d_{y1})^2 (b_{y2} d_{x1} - b_{x2} d_{y1})^2 - (b_{y2} d_{x1} - b_{x2} d_{y1})^2 (b_{y2} d_{x1} - b_{x2} d_{y1})^2 + (b_{y2} d_{x1} - b_{x2} d_{y1})^2 (b_{y2} d_{x1} - b_{x2} d_{y1})^2 + (b_{y2} d_{x1} - b_{x2} d_{x1} - b_{x2} d_{x1})^2 + (b_{y2} d_{x1} - b_{x2} d_{x1} - b_{x2} d_{x1})^2 + (b_{y2} d_{x1} - b_{x2} d_{x1} - b_{x2} d_{x1})^2 + (b_{y2} d_{x1} - b_{x2} d_{x1} - b_{x2} d_{x1})^2 + (b_{y2} d_{x1} - b_{x2} d_{x2} - b_$ $36\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)\left(a_{y2}\,b_{x1}-a_{x2}\,b_{y1}\right)\left(a_{x2}\,b_{y2}-a_{y2}\,b_{x2}\right)\left(b_{x1}\,d_{y1}-b_{y1}\,d_{x1}\right) 12\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{3}\left(a_{x2}\,c_{y2}-a_{y2}\,c_{x2}\right)\left(b_{x1}\,b_{y2}-b_{x2}\,b_{y1}\right)\left(b_{y2}\,c_{x1}-b_{x2}\,c_{y1}\right)-8\left(a_{x1}\,b_{y1}-a_{y2}\,b_{y2}\right)\left(b_{y2}\,c_{y1}-b_{y2}\,b_{y2}\right)$ $(a_{y1} b_{x1})^3 (a_{x2} b_{y2} - a_{y2} b_{x2}) (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{x2} c_{y2} - b_{y2} c_{x2}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x2} c_{y2} - b_{y2} c_{x2})$ $(a_{y2} c_{x2})^2 (b_{x1} c_{y1} - b_{y1} c_{x1}) + 18 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{x2} c_{y2} - a_{y2} c_{x2}) (c_{x1} c_{y2} - a_{y2} c_{x2}) (c_{x2} c_{y2} - a_{y2} c_{x2}) (c_{x1} c_{y2} - a_{y2} c_{x2}) (c_{x2} c_{y2} - a_{y2} c_{x2}) (c_{x1} c_{y2} - a_{y2} c_{x2}) (c_{x2} c_{y2} - a_{y2} c_{x2}) (c_$ $(c_{x2} c_{y1}) - 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{x2} c_{y2} - a_{y2} c_{x2}) (b_{x1} c_{y1} - a_{y1} b_{x1})^2 (a_{x2} c_{y2} - a_{y2} c_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{x2} c_{y2} - a_{y2} c_{x2}) (a_{y1} c_{y1} - a_{y1} b_{x1})^2 (a_{y2} c_{y2} - a_{y1} c_{x2}) (a_{y2} c_{y1} - a_{y1} c_{x2}) (a_{y2} c_{y2} - a_{y2} c_{y2}) (a$ $b_{y1} c_{x1}$) $-8 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x2} c_{y2} - a_{y2} c_{x2})^2 (b_{x1} c_{y1} - b_{y1} c_{x1}) + 24 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y2} c_{x2})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) + 24 (a_$ $(a_{y1} b_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1})^2 (b_{x1} c_{y1} - b_{y1} c_{x1}) - 16 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x2} b_{y2} - a_{y1} b_{x1})^3 (a_{y2} b_{y2} - a_{y1} b_{y1})^3 (a_{y2} b_{y2} - a_{y1} b_{y2})^3 (a_{y2} b_{y2} - a_{y2} b_{y2})^3 (a_{y2} b_{y2} - a_{y$ $(a_{y2} b_{x2}) (a_{x2} d_{y2} - a_{y2} d_{x2}) (b_{x1} c_{y1} - b_{y1} c_{x1}) - 24 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{y2} d_{x1} - a_{y1} b_{x1})^2 (a_{y2} d_{x2} - a_{y1} b_{x1})^2 (a_{y2} d_{x2} - a_{y2} d_{x2})^2 (a_{y2} d_{x2} - a_{y2}$

 $a_{x2}\,d_{y1})\,(b_{x1}\,b_{y2}-b_{x2}\,b_{y1})\,(b_{x1}\,c_{y1}-b_{y1}\,c_{x1}) + 8\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})^3\,(a_{y2}\,d_{x1}-a_{x2}\,d_{y1})\,(a_{x2}\,b_{y2}-a_{y1}\,b_{x1})^3\,(a_{y2}\,d_{x1}-a_{x2}\,d_{y1})\,(a_{x2}\,b_{y2}-a_{y1}\,b_{x1})^3\,(a_{y2}\,d_{x1}-a_{x2}\,d_{y1})\,(a_{x2}\,b_{y2}-a_{y1}\,b_{x1})^3\,(a_{y2}\,d_{x1}-a_{x2}\,d_{y1})\,(a_{x2}\,b_{y2}-a_{y1}\,b_{x1})^3\,(a_{y2}\,d_{x1}-a_{x2}\,d_{y1})\,(a_{x2}\,b_{y2}-a_{y1}\,b_{x1})^3\,(a_{y2}\,d_{x1}-a_{x2}\,d_{y1})\,(a_{x2}\,b_{y2}-a_{y1}\,b_{x1})^3\,(a_{y2}\,d_{x1}-a_{x2}\,d_{y1})\,(a_{x2}\,b_{y2}-a_{y1}\,b_{x1})^3\,(a_{y2}\,d_{x1}-a_{x2}\,d_{y1})\,(a_{x2}\,b_{y2}-a_{y1}\,b_{x1})^3\,(a_{y2}\,d_{x1}-a_{x2}\,d_{y1})\,(a_{x2}\,b_{y2}-a_{y1}\,b_{x1})^3\,(a_{y2}\,d_{x1}-a_{x2}\,d_{y1})\,(a_{x2}\,b_{y2}-a_{y1}\,b_{x1})^3\,(a_{y2}\,d_{x1}-a_{x2}\,d_{y1})\,(a_{x2}\,b_{y2}-a_{y1}\,b_{x1})^3\,(a_{y2}\,d_{x1}-a_{x2}\,d_{y1})\,(a_{x2}\,b_{y2}-a_{y1}\,b_{x1})^3\,(a_{y2}\,d_{x1}-a_{x2}\,d_{y1})\,(a_{x2}\,b_{y2}-a_{y1}\,b_{x1})^3\,(a_{y2}\,d_{x1}-a_{y2}\,d_{y1})^3\,(a_{y2}\,d_{x1}-a_{y2}\,d_{y1})^3\,(a_{y2}\,d_{y1}-a_{y1}\,b_{y1})^3\,(a_{y2}\,d_{y1}-a_{y1}\,b_{y1})^3\,(a_{y2}\,d_{y1}-a_{y1}\,b_{y1})^3\,(a_{y2}\,d_{y1}-a_{y1}\,b_{y1})^3\,(a_{y2}\,d_{y1}-a_{y1}\,b_{y1})^3\,(a_{y2}\,d_{y1}-a_{y1}\,b_{y1})^3\,(a_{y2}\,d_{y1}-a_{y1}\,b_{y1})^3\,(a_{y2}\,d_{y1}-a_{y1}\,b_{y1})^3\,(a_{y2}\,d_{y1}-a_{y1}\,b_{y1})^3\,(a_{y2}\,d_{y1}-a_{y1}\,b_{y1})^3\,(a_{y2}\,d_{y1}-a_{y1}\,b_{y1})^3\,(a_{y2}\,d_{y1}-a_{y1}\,b_{y1})^3\,(a_{y2}\,d_{y1}-a_{y1}\,b_{y1})^3\,(a_{y2}\,d_{y1}-a_{y1}\,b_{y1})^3\,(a_{y2}\,d_{y1}-a_{y1}\,b_{y1}-a_{y1}\,b_{y1})^3\,(a_{y2}\,d_{y1}-a_{y1}\,b_{y1}-a_{y1}\,b_{y1})^3\,(a_{y2}\,d_{y1}-a_{y1}\,b_{y1}-a_{y$ $(a_{y2} b_{x2}) (b_{x1} c_{y1} - b_{y1} c_{x1}) + 24 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} d_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{x1} d_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{x1} d_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{x1} d_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{x1} d_{y1} - a_{y1} b_{x1})^2 (a_{y2} d_{x1} - a_{x2} d_{y1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{y2} d_{x1} - a_{x2} d_{y1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{y2} d_{x1} - a_{x2} d_{y1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{y2} d_{x1} - a_{x2} d_{y1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{y2} d_{x1} - a_{x2} d_{y1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{y2} d_{x1} - a_{x2} d_{y1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{y2} d_{x1} - a_{x2} d_{y1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{y2} d_{x1} - a_{y2} d_{y1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{y2} d_{x1} - a_{y2} d_{y1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{y2} d_{x1} - a_{y2} d_{y1}) (a_{x1} d_{y1} - a_{y1} d_{y1})^2 (a_{y2} d_{x1} - a_{y2} d_{y1}) (a_{x1} d_{y1} - a_{y1} d_{y1}) (a_{x1}$ $(b_{y1} d_{x1}) (b_{y2} c_{x1} - b_{x2} c_{y1}) + 18 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x1} b_{y2} - a_{y1} b_{x2}) (b_{x2} c_{y2} - b_{y2} c_{x2})^2 +$ $12\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{2}\left(a_{x2}\,b_{y2}-a_{y2}\,b_{x2}\right)\left(b_{x2}\,c_{y2}-b_{y2}\,c_{x2}\right)+12\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}$ $(a_{y1} b_{x1})^3 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x2} b_{y2} - a_{y2} b_{x2}) (b_{x2} d_{y2} - b_{y2} d_{x2}) + 24 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y2} a_{y2}) (a_{y2} b_{y2} - a_{y2} a_{y2}) (a_{y2} b_{y2} - a_{y2} a_{y2}) + 24 (a_{y2} a_{y2} - a_{y2} a_{y2}) (a_{y2} a_{y2} - a_{y2} a_{y2} a_{y2} a_{y2} a_{y2}) (a_{y2} a_{y2} - a_{y2} a_$ $(a_{u1} b_{x1})^3 (a_{x2} d_{u2} - a_{u2} d_{x2}) (b_{x2} d_{u2} - b_{u2} d_{x2}) + 14 (a_{x1} c_{u1} - a_{u1} c_{x1})^4 (a_{u2} b_{x1} - a_{x2} b_{u1}) (a_{x2} b_{u2} - a_{u2} d_{x2}) + 14 (a_{x1} c_{u1} - a_{u1} c_{x1})^4 (a_{u2} b_{x1} - a_{u2} b_{u1}) (a_{x2} b_{u2} - a_{u2} d_{x2}) + 14 (a_{x1} c_{u1} - a_{u1} c_{x1})^4 (a_{u2} b_{x1} - a_{u2} b_{u1}) (a_{x2} b_{u2} - a_{u2} d_{x2}) + 14 (a_{x1} c_{u1} - a_{u1} c_{x1})^4 (a_{u2} b_{x1} - a_{u2} b_{u1}) (a_{x2} b_{u2} - a_{u2} d_{x2}) + 14 (a_{x1} c_{u1} - a_{u1} c_{x1})^4 (a_{u2} b_{x1} - a_{u2} b_{u1}) (a_{x2} b_{u2} - a_{u2} d_{x2}) (a_{x2} b_{u2} - a_{u2} d_{x2}) + 14 (a_{x1} c_{u1} - a_{u1} c_{x1})^4 (a_{u2} b_{x1} - a_{u2} b_{u1}) (a_{x2} b_{u2} - a_{u2} d_{x2}) + 14 (a_{x1} c_{u1} - a_{u1} c_{x1})^4 (a_{u2} b_{u2} - a_{u2} d_{x2}) (a_{x2} b_{u2} - a_{u2} d_{x2}) (a_{x2} b_{u2} - a_{u2} d_{x2}) + 14 (a_{x1} c_{u1} - a_{u1} c_{x1})^4 (a_{u2} b_{u2} - a_{u2} d_{x2}) (a_{x2} b_{u2} - a_{u2} d_{x2}) + 14 (a_{x1} c_{u1} - a_{u1} c_{x1})^4 (a_{u2} b_{u2} - a_{u2} d_{u2}) (a_{x2} b_{$ $(a_{y2} b_{x2}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x2} b_{y2} - a_{y2} b_{x2}) (a_{x2} d_{y2} - a_{y2} d_{x2}) - (a_{x2} d_{y2} - a_$ $6(a_{x1}b_{y1}-a_{y1}b_{x1})^3(a_{x1}d_{y2}-a_{y1}d_{x2})(a_{x2}c_{y2}-a_{y2}c_{x2})^2+6(a_{x1}b_{y1}-a_{y1}b_{x1})^3(a_{x1}d_{y1}-a_{y1}b_{x1})^3$ $a_{y1} d_{x1}$) $(a_{x2} c_{y2} - a_{y2} c_{x2})^2 - 24 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x2} b_{y2} - a_{y2} b_{x2}) (a_{x2} d_{y2} - a_{y2} b_{x2}) (a$ $(a_{y2} d_{x2}) - 12 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (b_{y2} d_{x1} - b_{x2} d_{y1}) (b_{x2} c_{y2} - b_{y2} c_{x2}) +$ $18\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{2}\left(a_{y2}\,d_{x1}-a_{x2}\,d_{y1}\right)\left(a_{x2}\,b_{y2}-a_{y2}\,b_{x2}\right)-6\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}$ $(a_{y1} b_{x1})^3 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{y2} d_{x1} - a_{x2} d_{y1})^2 - 12 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} b_{x2})^2 + 12 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 + 12 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 + 12 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y2} - a_{y1} a_{y1} a_{y1} - a_{y1} a_{y1})^2 + 12 (a_{x1} a_{y2} - a_{y1} a_{y1} a_{y1} - a_{y1} a_{y1}$ $a_{u1} c_{x2}) (a_{u2} b_{x1} - a_{x2} b_{u1}) (c_{x2} d_{u2} - c_{u2} d_{x2}) - 12 (a_{x1} a_{u2} - a_{x2} a_{u1})^2 (a_{x1} c_{u1} - a_{u1} c_{x1})^2 (b_{x1} c_{u2} - a_{u2} a_{u1})^2 (a_{x2} c_{u2} - a_{u2} a_{u2})^2 (a_{x2} c_{u2} - a_{u2} a_{u2} a_{u2})^2 (a_{x2} c_{u2} - a_{u2} a_{u2} a_{u2} a_{u2} a_{u2})^2 (a_{x2} c_{u2} - a_{u2} a_{u2$ $(a_{x1} c_{x2})^2 - 2 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{y2} c_{x1} - a_{x2} c_{y1}) (b_{x1} b_{y2} - b_{x2} b_{y1}) + (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{y2} c_{x1} - a_{x2} c_{y1}) (a_{y1} c_{y2} - a_{y2} c_{y1}) + (a_{y1} c_{y1} - a_{y1} c_{y1})^3 (a_{y2} c_{y1} - a_{y2} c_{y1}) (a_{y2} c_{y1} - a_{y2} c_{y1}) + (a_{y1} c_{y1} - a_{y2} c_{y1}) (a_{y2} c_{y1} - a_{y2} c_{y1}) (a_{y2} c_{y2} - a_{y2} c_{y1}) (a_{y2} c_{y2} - a_{y2} c_{y2}) + (a_{y2} c_{y2} - a_{y2} c_{y2}) (a_{y2} c_{y2} - a_{y2}$ $24\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)\left(b_{x1}\,b_{y2}-b_{x2}\,b_{y1}\right)\left(b_{x2}\,c_{y2}-b_{y2}\,c_{x2}\right)+$ $24\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)\left(b_{x1}\,c_{y2}-b_{y1}\,c_{x2}\right)\left(b_{x2}\,d_{y2}-b_{y2}\,d_{x2}\right) 12\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)^{2}\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)\left(b_{x2}\,d_{y2}-b_{y2}\,d_{x2}\right)-24\left(a_{x1}\,b_{y1}-a_{y2}\,b_{y1}\,d_{y2}\right)$ $(a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x2} c_{y2} - b_{y2} c_{x2}) + 3 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{x2} c_{y2} - b_{y2} c_{x2}) + 3 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{x2} c_{y2} - a_{y2} c_{x2}) + 3 (a_{x1} d_{y2} - a_{y2} c_{x2}) + 3 (a_{x2} d_{y2} - a_{y2} c_{y2} c_{y2}) + 3 (a_{x2} d_{y2} - a_{y2} c_{y2} c_{y2}) + 3 (a_{x2} d_{y2} - a_{y2} c_{y2} c_{y2$ $(a_{x1} \, b_{x2})^2 \, (a_{x1} \, c_{y1} - a_{y1} \, c_{x1})^2 \, (b_{x1} \, b_{y2} - b_{x2} \, b_{y1})^2 + 12 \, (a_{x1} \, a_{y2} - a_{x2} \, a_{y1})^2 \, (a_{x1} \, c_{y1} - a_{y1} \, c_{x1})^2 \, (b_{x1} \, b_{y2} - a_{y1} \, c_{y1})^2 \, (a_{x1} \, c_{y1} - a_{y1} \, c_{x1})^2 \, (a_{x1} \, c_{y1}$ $b_{x2}\,b_{y1})\,(b_{x1}\,d_{y2}-b_{y1}\,d_{x2})+20\,(a_{x1}\,b_{y2}-a_{y1}\,b_{x2})\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})^3\,(a_{y2}\,b_{x1}-a_{x2}\,b_{y1})\,(a_{y2}\,c_{x1}-a_{y2}\,b_{y1})$ $(a_{x2} c_{y1}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x2} b_{y2} - a_{y2} b_{x2}) (b_{x1} c_{y2} - b_{y1} c_{x2}) - b_{y1} c_{x2}$ $4\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)^{3}\left(a_{y2}\,b_{x1}-a_{x2}\,b_{y1}\right)\left(b_{x1}\,b_{y2}-b_{x2}\,b_{y1}\right)+24\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x2}\right)$ $(a_{x1}\,b_{x1})^2\,(a_{x1}\,b_{y2}-a_{y1}\,b_{x2})\,(a_{x1}\,c_{y2}-a_{y1}\,c_{x2})\,(a_{x2}\,c_{y2}-a_{y2}\,c_{x2})\,(b_{x1}\,c_{y2}-b_{y1}\,c_{x2})-36\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x2})$ $(a_{x1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x2} d_{y2} - a_{y2} d_{x2}) (b_{x1} b_{y2} - b_{x2} b_{y1}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x2}) (a_{x2} d_{y2} - a_{y2} d_{x2}) (a_{x$ $(a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) - 72 (a_{x1} b_{y1} - a_{y1} b_{x2})^2 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x2} b_{y1} - a_{y2} b_{y1}) (a_{y2} b_{x2} - a_{y1} b_{x2})^2 (a_{x2} b_{y2} - a_{y2} b_{y2})^2 (a_{x2} b_{y2} - a_{y2} b_{y2} - a_{y2} b_{y2} - a_{y2} b_{y2})^2 (a_{x2} b_{y2} - a_{y2} b_{y2}$ $(a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} b_{y2} - a_{y1} c_{x2}) (a_{y2} b_{y1} - a_{y2} b_{y2}) (a_{y2} b_{y2} - a_{y1} c_{y2}) (a_{y2} b_{y2} - a_{y1} c_{y2}) (a_{y2} b_{y2} - a_{y1} c_{y2}) (a_{y2} b_{y2} - a_{y2} c_{y2}) (a_{y2} b_{y$ $b_{x2}\,b_{y1}) + 48\,(a_{x1}\,a_{y2} - a_{x2}\,a_{y1})\,(a_{x1}\,b_{y1} - a_{y1}\,b_{x1})^2\,(a_{x1}\,c_{y2} - a_{y1}\,c_{x2})\,(a_{x2}\,d_{y2} - a_{y2}\,d_{x2})\,(b_{x1}\,c_{y2} - a_{y2}\,d_{x3})\,(a_{x2}\,d_{y3} - a_{y3}\,d_{x3})\,(a_{x1}\,c_{y3} - a_{y3}\,d_{x3})\,(a_{x2}\,d_{y3} - a_{y3}\,d_{x3})\,(a_{x3}\,d_{y3} - a_{y3}\,d_{y3})\,(a_{x3}\,d_{y3} - a_{y3}\,d_{y3})\,(a_{x3$ $(b_{y1} c_{x2}) - 6 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (a_{y2} b_{x1} - a_{x2} b_{y1})^2 - a_{y1} d_{y2}$ $36\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)^{2}\left(a_{y2}\,b_{x1}-a_{x2}\,b_{y1}\right)\left(b_{x1}\,b_{y2}-b_{x2}\,b_{y1}\right)+\\$ $12\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)\left(a_{x2}\,d_{y2}-a_{y2}\,d_{x2}\right)\left(b_{x1}\,d_{y1}-b_{y1}\,d_{x1}\right) 6 \left(a_{x1} \, a_{y2} - a_{x2} \, a_{y1}\right) \left(a_{x1} \, b_{y1} - a_{y1} \, b_{x1}\right) \left(a_{x1} \, d_{y1} - a_{y1} \, d_{x1}\right)^2 \left(a_{y2} \, b_{x1} - a_{x2} \, b_{y1}\right) \left(b_{x1} \, b_{y2} - b_{x2} \, b_{y1}\right) + \\$ $12\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)^{2}\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{2}\left(a_{y2}\,b_{x1}-a_{x2}\,b_{y1}\right)\left(b_{x1}\,c_{y2}-b_{y1}\,c_{x2}\right)-30\left(a_{x1}\,a_{y2}-a_{y1}\,b_{x2}\right)^{2}$ $(a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{y2} c_{x1} - a_{x2} c_{y1}) (b_{y2} d_{x1} - b_{x2} d_{y1}) + 36 (a_{x1} a_{y2} - a_{y1} c_{x1}) (a_{y2} c_{x1} - a_{y2} c_{y1}) (a_{y2} d_{x1} - b_{x2} d_{y1}) + 36 (a_{x1} a_{y2} - a_{y1} c_{x1}) (a_{y2} c_{x1} - a_{y2} c_{y1}) (a_{y2} d_{x1} - b_{x2} d_{y1}) + 36 (a_{x1} a_{y2} - a_{y1} c_{x1}) (a_{y2} d_{x1} - a_{y1} c_{$ $(a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (b_{x1} b_{y2} - b_{x2} b_{y1}) (c_{y2} d_{x1} - c_{x2} d_{y1}) + 12 (a_{x1} b_{y1} - a_{y1} b_{x2}) (a_{y1} b_{y2} - a_{y1} b_{y2}) (a_{y$ $(a_{u1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} d_{y1} - b_{y1} d_{x1}) + 36 (a_{x1} b_{y1} - a_{y1} b_{x1}) + 36 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{y1} b_{y1} - a_{y1} b_{y1}) (a_{y1} b_{y1} - a_{y1} b_{y1}) + 36 (a_{y1} b_{y1} - a_{y1} b_{y1}) (a_{y1} b_{y1} - a_{y1} b_{y1}) (a_{y1} b_{y1} - a_{y1} b_{y1}) + 36 (a_{y1} b_{y1} - a_{y1} b_{y1}) (a_{y1} b_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1}) (a_{y1} b_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1}) (a_{y1} b_{y1} - a_{y1} b_{y1} - a_{y1$ $(a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{y2} d_{x1} - a_{x2} d_{y1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) + 72 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y2} a_{y1}) (a_{y1} b_{y2} - a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y1} b_{y2} - a_{y2} a_{y1}) (a_{y2} a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y2} a_{y2} - a_{y2} a_{y2})$ $a_{y1}\,b_{x1})\,(a_{x1}\,b_{y2}-a_{y1}\,b_{x2})\,(a_{x1}\,c_{y2}-a_{y1}\,c_{x2})\,(b_{x1}\,b_{y2}-b_{x2}\,b_{y1})\,(b_{x1}\,d_{y1}-b_{y1}\,d_{x1})-12\,(a_{x1}\,a_{y2}-a_{y1}\,a_{y2})$ $(a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (c_{y2} d_{x1} - c_{x2} d_{y1}) + 48 (a_{x1} a_{y2} - a_{y1} c_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{y2} d_{x1} - c_{x2} d_{y1}) + 48 (a_{x1} a_{y2} - a_{y1} c_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{y2} d_{x1} - c_{x2} d_{y1}) + 48 (a_{x1} a_{y2} - a_{y1} c_{x2}) (a_{y2} d_{x1} - a_{y2} d_{y1}) (a_{y2} d_{x1} - a_{y2} d_{y1}) + 48 (a_{y2} d_{y1} - a_{y2} d_{y1}) (a_{y2} d_{y1} - a_{y2} d_{y2}) (a_{y2} d_{y1} - a_{y2} d_{y1}) (a_{y2} d_{y1} - a_{y2} d_{y1}) (a_{y2} d_{y1} - a_{y2} d_{y2}) (a_{y2} d_{y1} - a_{y2} d_{y2}) (a_{y2} d_{y1} - a_{y2} d_{y2}) (a_{y2} d_{y2} - a_{y2$ $(a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{y2} d_{x1} - a_{x2} d_{y1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) + 12 (a_{x1} a_{y2} - a_{y1} c_{x2}) + 12 (a_{x1$ $(a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} d_{y1} - b_{y1} d_{x1}) + 36 (a_{x1} b_{y1} - b_{y1} d_{x1}) + 36 (a_{x1$ $(a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{y2} d_{x1} - a_{x2} d_{y1}) + 36 (a_{x1} a_{y2} - a_{y1} d_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{y2} d_{x1} - a_{x2} d_{y1}) + 36 (a_{x1} a_{y2} - a_{y1} d_{x2}) (a_{y2} b_{x1} - a_{x2} d_{y1}) + 36 (a_{x1} a_{y2} - a_{y1} d_{x2}) (a_{y2} d_{x1} - a_{x2} d_{y1}) + 36 (a_{x1} a_{y2} - a_{y1} d_{x2}) (a_{y2} d_{x1} - a_{x2} d_{y1}) + 36 (a_{x1} a_{y2} - a_{y1} d_{x2}) (a_{y2} d_{x1} - a_{x2} d_{y1}) + 36 (a_{x1} a_{y2} - a_{y1} d_{x2}) (a_{y2} d_{x1} - a_{x2} d_{y1}) + 36 (a_{x1} a_{y2} - a_{y1} d_{x2}) (a_{y2} d_{x1} - a_{x2} d_{y1}) + 36 (a_{x1} a_{y2} - a_{y1} d_{x2}) (a_{y2} d_{x1} - a_{x2} d_{y1}) + 36 (a_{x1} a_{y2} - a_{y1} d_{x2}) (a_{y2} d_{x1} - a_{x2} d_{y1}) + 36 (a_{x1} a_{y2} - a_{y1} d_{x2}) (a_{y2} d_{x1} - a_{x2} d_{y1}) + 36 (a_{x1} a_{y2} - a_{y1} d_{x2}) (a_{y2} d_{x1} - a_{x2} d_{y1}) + 36 (a_{x1} a_{y2} - a_{y1} d_{x2}) (a_{y2} d_{x1} - a_{x2} d_{y1}) + 36 (a_{x1} a_{y2} - a_{y1} d_{x2}) (a_{y2} d_{x1} - a_{x2} d_{y1}) + 36 (a_{x1} a_{y2} - a_{y1} d_{x2}) (a_{x1} d_{x2} - a_{y1} d_{x2}) (a_{x2} d_{x1} - a_{x2} d_{y1}) + 36 (a_{x1} a_{y2} - a_{y1} d_{x2}) (a_{x2} d_{x1} - a_{x2} d_{y1}) + 36 (a_{x1} a_{y2} - a_{y1} d_{x2}) (a_{x2} d_{x1} - a_{x2} d_{y1}) + 36 (a_{x1} a_{y2} - a_{y1} d_{x2}) (a_{x2} d_{x1} - a_{x2} d_{y1}) + 36 (a_{x1} a_{y2} - a_{y1} d_{x2}) (a_{x2} d_{x1} - a_{x2} d_{y1}) + 36 (a_{x1} a_{y2} - a_{y1} d_{x2}) (a_{x2} d_{x1} - a_{x2} d_{y1}) + 36 (a_{x1} a_{y2} - a_{y1} d_{x2}) (a_{x2} d_{x1} - a_{x2} d_{y1}) + 36 (a_{x1} a_{y2} - a_{y1} d_{x2}) (a_{x2} d_{x1} - a_{x2} d_{y1}) + 36 (a_{x1} a_{y2} - a_{y1} d_{x2}) (a_{x2} d_{x2} - a_{y1} d_{x2}) (a_{x2} d_{x2} - a_{x2} d_{x$

 $(a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} d_{y2} - b_{y1} d_{x2}) (b_{y2} d_{x1} - b_{x2} d_{y1}) + 72 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x2} a_{y1} - a_{x2} a_{y2}) (a_{x2} a_{y2} - a_{x2} a_{y2})$ $(a_{u1} b_{u1}) (a_{u1} b_{u2} - a_{u1} b_{u2}) (a_{u1} d_{u2} - a_{u1} d_{u2}) (a_{u2} b_{u1} - a_{u2} b_{u1}) (b_{u1} d_{u1} - b_{u1} d_{u1}) - 6 (a_{u1} a_{u2} - a_{u1} b_{u1}) (a_{u1} b_{u2} - a_{u1} b_{u2}) (a_{u2} b_{u1} - a_{u2} b_{u1}) (a_{u1} b_{u2} - a_{u1} b_{u2}) - 6 (a_{u1} a_{u2} - a_{u1} b_{u2}) (a_{u2} b_{u1} - a_{u2} b_{u1}) (a_{u1} b_{u2} - a_{u1} b_{u2}) - 6 (a_{u1} a_{u2} - a_{u1} b_{u2}) (a_{u2} b_{u2} - a_{u1} b_{u2}) (a_{u2} b_{u2} - a_{u2} b_{u1}) (a_{u2} b_{u2} - a_{u2} b_{u2}) (a_{u2} b_{u2} - a_{u2} b_{u2})$ $(a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{y2} d_{x1} - a_{x2} d_{y1}) (b_{x1} b_{y2} - b_{x2} b_{y1}) - 18 (a_{x1} a_{y2} - a_{y1} b_{y2})^2 (a_{x1} a_{y1} - a_{y1} a_{x1}) (a_{y2} a_{x1} - a_{x2} a_{y1}) (a_{x1} a_{y2} - a_{y1} a_{x1})^2 (a_{x1} a_{y1} - a_{y1} a_{x1})^2 (a_{x1} a_{y1} - a_{y1} a_{x1}) (a_{y2} a_{x1} - a_{x2} a_{y1}) (a_{x1} a_{y2} - a_{y1} a_{x1})^2 (a_{x1} a_{y1} - a_{y1} a_{x1}) (a_{y2} a_{x1} - a_{x2} a_{y1}) (a_{x1} a_{y2} - a_{y1} a_{x1})^2 (a_{x1} a_{y1} - a_{y1} a_{x1}) (a_{y1} a_{x1} - a_{y1} a_{x1}) (a_{y2} a_{y1} - a_{y1} a_{y1}) (a_{y2} a_{y1} - a_{y1} a_{y1} a_{y1}) (a_{y2} a_{y1} - a_{y1} a_{y1} a_{y1}) (a_{y2} a_{y1} - a_{y1} a_{y1} a_{y1} a_{y1} a_{y1}) (a_{y2} a_{y1} - a_{y1} a_{y1}$ $(a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} d_{y1} - b_{y1} d_{x1}) (b_{y2} d_{x1} - b_{x2} d_{y1}) - 36 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y1} - a_{y$ $a_{v1} \, b_{x1} \,) \, (a_{x1} \, b_{v2} - a_{v1} \, b_{x2}) \, (a_{x1} \, d_{v1} - a_{v1} \, d_{x1}) \, (a_{v2} \, b_{x1} - a_{x2} \, b_{v1}) \, (b_{x1} \, d_{v1} - b_{v1} \, d_{x1}) - 12 \, (a_{x1} \, a_{v2} - a_{v1} \, b_{v2}) \, (a_{x1} \, a_{v2} - a_{v2} \, b_{v2}) \, (a_$ $(a_{x2} a_{v1})^2 (a_{x1} c_{v1} - a_{v1} c_{x1})^2 (b_{x1} b_{v2} - b_{x2} b_{v1}) (b_{x1} d_{v1} - b_{v1} d_{x1}) - 4 (a_{x1} b_{v1} - a_{v1} b_{x1})^2 (a_{x1} b_{v2} - b_{v2} b_{v1}) (a_{x1} b_{v1} - a_{v1} b_{v1}) - 4 (a_{x1} b_{v1} - a_{v1} b_{x1})^2 (a_{x1} b_{v2} - a_{v1} b_{v1}) - 4 (a_{x1} b_{v1} - a_{v1} b_{x1})^2 (a_{x1} b_{v2} - a_{v1} b_{v1}) - 4 (a_{x1} b_{v1} - a_{v1} b_{v1})^2 (a_{x1} b_{v2} - a_{v1} b_{v1}) - 4 (a_{x1} b_{v1} - a_{v1} b_{v1})^2 (a_{x1} b_{v2} - a_{v1} b_{v1}) - 4 (a_{x1} b_{v1} - a_{v1} b_{v1})^2 (a_{x1} b_{v2} - a_{v1} b_{v1}) - 4 (a_{x1} b_{v1} - a_{v1} b_{v1})^2 (a_{x1} b_{v2} - a_{v1} b_{v1}) - 4 (a_{x1} b_{v1} - a_{v1} b_{v1})^2 (a_{x1} b_{v2} - a_{v1} b_{v1}) - 4 (a_{x1} b_{v1} - a_{v1} b_{v1})^2 (a_{x1} b_{v2} - a_{v1} b_{v1}) - 4 (a_{x1} b_{v1} - a_{v1} b_{v1})^2 (a_{x1} b_{v2} - a_{v1} b_{v1})^2 (a_{x1} b_{v2} - a_{v1} b_{v1}) - 4 (a_{x1} b_{v1} - a_{v1} b_{v1})^2 (a_{x1} b_{v2} - a_{v1} b_{v1}) - 4 (a_{x1} b_{v1} - a_{v1} b_{v1})^2 (a_{x1} b_{v2} - a_{v1} b_{v1}) - 4 (a_{x1} b_{v1} - a_{v1} b_{v1})^2 (a_{x1} b_{v2} - a_{v1} b_{v1}) - 4 (a_{x1} b_{v1} - a_{v1} b_{v1})^2 (a_{x1} b_{v2} - a_{v1} b_{v1}) - 4 (a_{x1} b_{v1} - a_{v1} b_{v1})^2 (a_{x1} b_{v2} - a_{v1} b_{v1}) - 4 (a_{x1} b_{v2} - a_{v1} b_{v1}) - 4 (a_{x1} b_{v2} - a_{v1} b_{v2}) - 4 (a_{x1} b_{v2} - a_{v1} b_{v2}) - 4 (a_{x1} b_{v2} - a_{v1} b_{v2}) - 4 (a_{x1} b_{v2} - a_{v2} b_{v2}) - 4 (a_{x1} b_{v2} - a_{v2} b_{v2}) - 4 (a_{x1} b_{v2} - a_{v2} b_{v2} - a_{v2} b_{v2}) - 4 (a_{x1} b_{v2} - a_{v2} b_{v2} b_{v2} b_{v2}) - 4 (a_{x1} b_{v2} - a_{v2} b_{v2} b_{v2} b_{v2}) - 4 (a_{x1} b_{v2} b_{v2} b_{v2} b_{v2} b_{v2} b_{v2}) - 4 (a_{x1} b_{v2} b_{v2} b_{v2} b_{v2} b_{v2} b_{v2} b_{v2} b_{v2} b_{v2}) - 4 (a_{x1} b_{v2} b_{v2} b_{v2} b_{v2} b_{v2} b_{v2} b$ $(a_{u1} b_{u2}) (b_{x1} b_{u2} - b_{x2} b_{u1})^2 (b_{u2} c_{x1} - b_{x2} c_{u1}) + 30 (a_{x1} a_{u2} - a_{x2} a_{u1}) (a_{x1} b_{u1} - a_{u1} b_{x1})^2 (a_{x1} c_{u2} - a_{u2} a_{u1}) (a_{x1} b_{u2} - a_{u2} a_{u1}) (a_{x2} b_{u2} - a_{u2} a_{u2}) (a_$ $(a_{y1} c_{x2}) (b_{y2} c_{x1} - b_{x2} c_{y1})^2 - 60 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (b_{y2} c_{x1} - a_{y1} b_{x2}) (a_{y2} c_{y1} - a_{y1} b_{y2}) (a_$ $b_{x2}\,c_{y1})\,(c_{x1}\,c_{y2}-c_{x2}\,c_{y1})+18\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})^2\,(a_{x1}\,b_{y2}-a_{y1}\,b_{x2})^2\,(a_{y2}\,c_{x1}-a_{x2}\,c_{y1})\,(c_{x1}\,c_{y2}-a_{y1}\,b_{x2})^2$ $(a_{x2} c_{y1}) + 30 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} c_{x1} - a_{x2} c_{y1})^2 - a_{y1} c_{y2} (a_{y2} c_{y1} - a_{y2} c_{y1})^2$ $60\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)\left(a_{y2}\,c_{x1}-a_{x2}\,c_{y1}\right)\left(c_{x1}\,d_{y2}-c_{y1}\,d_{x2}\right)+$ $18\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)^{2}\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(b_{y2}\,c_{x1}-b_{x2}\,c_{y1}\right)\left(c_{x1}\,d_{y2}-c_{y1}\,d_{x2}\right)+12\left(a_{x1}\,a_{y2}-a_{y2}\,a_{y1}\right)^{2}\left(a_{x1}\,a_{y2}-a_{y2}\,a_{y1}\right)^{2}$ $(a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{y2} c_{x1} - b_{x2} c_{y1}) (c_{x1} d_{y1} - c_{y1} d_{x1}) - 2 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x1}) (a_{$ $(a_{u1} b_{u2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (b_{x1} b_{y2} - b_{x2} b_{y1})^3 - 2 (a_{x1} b_{y2} - a_{y1} b_{x2})^3 (a_{x1} c_{y1} - a_{y1} c_{x1}) (b_{x1} b_{y2} - a_{y1} b_{y2})^3$ $(b_{x2} b_{y1}) (b_{x1} c_{y1} - b_{y1} c_{x1}) + 24 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x1}) (a_{x1}$ $a_{y1} c_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{y2} c_{x1} - b_{x2} c_{y1}) + 12 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (b_{x1} c_{y1} - a_{y2} a_{y1})^2 (a_{y2} b_{y1} - a_{y2} a_{y1})^2 (a_{y2} a_{y1} - a_{y2} a_{y1} a_{y2} - a_{y2} a_{y1})^2 (a_{y2} a_{y1} - a_{y2} a_{y1} a_{y2} - a_{y2} a_{y1})^2 (a_{y2} a_{y1} - a_{y2} a_{y1} a_{y2} - a_{y2} a_{y1} a_{y2} a_{y2}$ $(b_{y1} c_{x1})^2 + 36 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{y2} b_{x1} - a_{y1} c_{x2}) (a_{y2} b_{y1} - a_{y1} c_{y2}) (a_{y2} b_{y2} - a_{y1} c_{y2}) (a_{y2} b_{y2} - a_{y2} c_{y2}) (a_{y$ $(a_{x2} b_{y1}) (c_{x1} c_{y2} - c_{x2} c_{y1}) + 24 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y2} - a_{y1} a_{y1}) (a_{y1} c_{y1} - a_{y1} a_{y1} a_{y1}) (a_{y1} c_{y1} - a_{y1} a_{y1} a_{y1} a_{y1} a_{y1}) (a_{y1} c_{y1} - a_{y1} a_{$ $a_{v1} d_{v2}$ $(a_{v2} c_{x1} - a_{x2} c_{v1}) (b_{x1} b_{v2} - b_{x2} b_{v1}) - 24 (a_{x1} a_{v2} - a_{x2} a_{v1}) (a_{x1} b_{v1} - a_{v1} b_{x1}) (a_{x1} c_{v1} - a_{v2} b_{v2}) - 24 (a_{x1} a_{v2} - a_{x2} a_{v1}) (a_{x1} b_{v1} - a_{v1} b_{x1}) (a_{x1} c_{v1} - a_{v2} b_{v2}) - 24 (a_{x1} a_{v2} - a_{x2} a_{v1}) (a_{x1} b_{v1} - a_{v1} b_{x1}) (a_{x1} c_{v1} - a_{v2} b_{v2}) - 24 (a_{x1} a_{v2} - a_{v2} a_{v1}) (a_{x1} b_{v1} - a_{v1} b_{x1}) (a_{x1} c_{v1} - a_{v2} b_{v2}) - 24 (a_{x1} a_{v2} - a_{v2} a_{v1}) (a_{x1} b_{v1} - a_{v1} b_{x1}) (a_{x1} c_{v1} - a_{v2} b_{v2}) - 24 (a_{x1} a_{v2} - a_{v2} a_{v1}) (a_{x1} b_{v1} - a_{v1} b_{v1}) - 24 (a_{x1} a_{v2} - a_{v2} a_{v1}) (a_{x1} a_{v1} - a_{v1} b_{v1}) - 24 (a_{x1} a_{v2} - a_{v2} a_{v1}) (a_{x1} a_{v1} - a_{v1} b_{v1}) - 24 (a_{x1} a_{v2} - a_{v2} a_{v1}) (a_{x1} a_{v1} - a_{v1} b_{v1}) - 24 (a_{x1} a_{v2} - a_{v2} a_{v1}) - 24 (a_{x1} a_{v2} - a_{v2} a_{v2}) - 24 (a_{x1} a_{v2} - a_{v2} a_{v2})$ $a_{v1} c_{x1} (a_{x1} d_{v1} - a_{v1} d_{x1}) (a_{v2} c_{x1} - a_{x2} c_{v1}) (b_{x1} b_{v2} - b_{x2} b_{v1}) + 12 (a_{x1} b_{v2} - a_{v1} b_{x2}) (a_{x1} c_{v1} - a_{v2} c_{v1}) (a_{v1} c_{v2} - a_{v2} c_{v1}) (a_{v2} c_{v2} - a_{v2} c_{v2}) (a_{v2} c$ $(a_{u1} c_{x1})^3 (a_{x1} c_{u2} - a_{u1} c_{x2}) (a_{x2} b_{u2} - a_{u2} b_{x2}) + 18 (a_{x1} b_{u2} - a_{u1} b_{x2})^2 (a_{x1} c_{u1} - a_{u1} c_{x1})^2 (a_{x1} c_{u2} - a_{u1} c_{x1})^2 (a_{x1} c_{u2} - a_{u1} c_{x1})^2 (a_{x2} b_{u2} - a_{u2} b_{x2}) + 18 (a_{x1} b_{u2} - a_{u1} b_{x2})^2 (a_{x2} c_{u1} - a_{u1} c_{x1})^2 (a_{x2} c_{u2} - a_{u1} c_{x1})^2 (a_{x2} c_{u2} - a_{u1} c_{x2}) (a_{x2} c_{u2} - a_{u2} c_{u2}) + 18 (a_{x2} c_{u2} - a_{u1} c_{u2})^2 (a_{x2} c_{u2} - a_{u1} c_{u2})^2 (a_{x2} c_{u2} - a_{u2} c_{u2}) + 18 (a_{x2} c_{u2} - a_{u2} c_{u2})^2 (a_{x2} c_{u2} - a_{u2} c_{u2}) + 18 (a_{x2} c_{u2} - a_{u2} c_{u2})^2 (a_{x2} c_{u2} - a_{u2} c_{u2}) + 18 (a_{x2} c_{u2} - a_{u2} c_{u2})^2 (a_{x2} c_{u2} - a_{u2} c_{u2}) + 18 (a_{x2} c_{u2} - a_{u2} c_{u2})^2 (a_{x2} c_{u2} - a_{u2} c_{u2}) + 18 (a_{x2} c_{u2} - a_{u2} c_{u2})^2 (a_{x2} c_{u2} - a_{u2} c_{u2}) + 18 (a_{x2$ $(a_{y1} c_{x2}) (a_{y2} c_{x1} - a_{x2} c_{y1}) + 6 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x2} b_{y2} - a_{y1} d_{x2}) (a_{y2} c_{y1} - a_{y1} d_{y2}) (a_{y2$ $(a_{y2} b_{x2}) + 18 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} c_{x1} - a_{y1} c_{x1})^2$ $(a_{x2} c_{y1}) - 6 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x2} b_{y2} - a_{y2} b_{x2}) - (a_{x2} a_{y1}) (a_{x2} a_{y2} - a_{y2} a_{y2}) - (a_{x2} a_{y2} a_{y2} a_{y2} - a_{y2} a_{y2}) - (a_{x2} a_{y2} a_{y2} a_{y2} a_{y2} - a_{y2} a_{y2}) - (a_{x2} a_{y2} a_{y$ $18\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{2}\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)\left(a_{y2}\,c_{x1}-a_{x2}\,c_{y1}\right) 24\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)^{2}\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right) 12\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)^{2}\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)^{2}\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)-72\left(a_{x1}\,a_{y2}-a_{y2}\,a_{y1}\,c_{x2}\right)^{2}$ $(a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (c_{x1} d_{y2} - c_{y1} d_{x2}) + 72 (a_{x1} a_{y2} - a_{y1} d_{x2}) + 72 (a_{x1$ $(a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (c_{x1} c_{y2} - c_{x2} c_{y1}) + 72 (a_{x1} a_{y2} - a_{y1} a_{y2})^2 (a_{y1} a_{y2} - a_{y1} a_{y2}) (a_$ $(a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (c_{x1} c_{y2} - c_{x2} c_{y1}) - 72 (a_{x1} a_{y2} - a_{y1} c_{x2}) (a_{y1} c_{y2} - a_{y1} c_{y2}) (a_{y$ $(a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x1}) (c_{x1} c_{y2} - c_{x2} c_{y1}) - 72 (a_{x1} a_{y2} - a_{y1} a_{y2})^2 (a_{y1} a_{y1} - a_{y1} a_{y1}) (a_{y1} a_{y2} - a_{y1} a_{y2})^2 (a_{y1} a_{y1} - a_{y1} a_{y1}) (a_{y1} a_{y2} - a_{y1} a_{y2})^2 (a_{y1} a_{y1} - a_{y1} a_{y1}) (a_{y1} a_{y2} - a_{y1} a_{y2})^2 (a_{y1} a_{y1} - a_{y1} a_{y1}) (a_{y1} a_{y2} - a_{y1} a_{y2})^2 (a_{y1} a_{y1} - a_{y1} a_{y1}) (a_{y1} a_{y2} - a_{y1} a_{y2})^2 (a_{y1} a_{y1} - a_{y1} a_{y1}) (a_{y1} a_{y2} - a_{y1} a_{y2})^2 (a_{y1} a_{y1} - a_{y1} a_{y1}) (a_{y1} a_{y2} - a_{y1} a_{y2})^2 (a_{y1} a_{y1} - a_{y1} a_{y1}) (a_{y1} a_{y2} - a_{y1} a_{y2})^2 (a_{y1} a_{y1} - a_{y1} a_{y1}) (a_{y1} a_{y2} - a_{y1} a_{y2})^2 (a_{y1} a_{y1} - a_{y1} a_{y1}) (a_{y1} a_{y2} - a_{y1} a_{y2})^2 (a_{y1} a_{y1} - a_{y1} a_{y1}) (a_{y1} a_{y2} - a_{y1} a_{y2})^2 (a_{y1} a_{y1} - a_{y1} a_{y1}) (a_{y1} a_{y1} - a_{y1} a_{y1}) (a_{y1} a_{y1} - a_{y1} a_{y1}) (a_{y1} a_{y1} - a_{y1} a_{y1} a_{y1}) (a_{y1} a_{y1} - a_{y1} a_{y1} a_{y1} a_{y1} a_{y1}) (a_{y1} a_{y1} - a_{y1} a_{y$ $(a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (c_{x1} c_{y2} - c_{x2} c_{y1}) + 36 (a_{x1} a_{y2} - a_{y1} c_{x2}) (a_{x2} a_{y1} - a_{y1} a_{x2}) (a_{x$ $(a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (b_{y2} c_{x1} - b_{x2} c_{y1}) + 72 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y1} - a_$ $(a_{u1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x2} d_{y2} - b_{y2} d_{x2}) + 72 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{y1} c_{y1} - a_{y1} c_{y1})^2 (a_{y1} c_{y1} - a_{y1} c_{y1} c_{y1})^2 (a_{y1} c_{y1} - a_{y1} c_{y1} c_{y1} c_{y1})^2 (a_{y1} c_{y1} - a_{y1} c_{y1} c_{y1} c_{y1} c_{y1})^2 (a_{y1} c_{y1} c_{y1}$ $(a_{u1} c_{x1}) (a_{x1} d_{u2} - a_{u1} d_{x2})^2 (b_{x1} b_{u2} - b_{x2} b_{u1}) - 72 (a_{x1} a_{u2} - a_{x2} a_{u1})^2 (a_{x1} b_{u1} - a_{u1} b_{x1}) (a_{x1} d_{u1} - a_{u1} b_{u1})^2$ $(a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{y2} c_{x1} - b_{x2} c_{y1}) + 36 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} b_{x1}) (a_{x$ $(a_{y1} d_{x1})^2 (b_{y2} c_{x1} - b_{x2} c_{y1}) + 144 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} b_{x2}) (a_{x2} c_{y1} - a_{y1} c_{x2}) (a_{x2} c_{y2} - a_{y1} c_{x2}) (a_{x2} c_{y2} - a_{y2} c_{y2}) + 144 (a_{x2} c_{y2} - a_{y2} c_{y2}) (a_{x2} c_{y2} - a_{y2} c_{y2}$ $(a_{x1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x2} b_{y2} - a_{y2} b_{x2}) + 72 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} c_{y2} - a_{y2} b_{x2})^2$ $(a_{u1} c_{x2}) (a_{x1} d_{u2} - a_{u1} d_{x2}) (a_{u2} c_{x1} - a_{x2} c_{u1}) + 144 (a_{x1} b_{u2} - a_{u1} b_{x2})^2 (a_{x1} c_{u1} - a_{u1} c_{x1}) (a_{x1} c_{u2} - a_{u1} c_{x2})^2$ $a_{y1} c_{x2}) \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right) \left(a_{y2} b_{x1} - a_{x2} b_{y1}\right) + 72 \left(a_{x1} a_{y2} - a_{x2} a_{y1}\right) \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right) \left(a_{x1} c_{y2} - a_{y1} c_{x1}\right) \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right) \left(a_{x1} c_{y2} - a_{y1} c_{x1}\right) \left(a_{x1} c_{y2} - a_{y1} c_{x1}\right) \left(a_{x1} c_{y1} -$ $(a_{y1} c_{x2})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1}) + 72 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y2} a_{y1}) (a_{y2} b_{y1} - a_{y1} b_{y1})$

```
(a_{y1} b_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) - 72 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x1})^2 
a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{y2} b_{x1} - a_{x2} b_{y1}) - 144 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y2} b_{y1}) - 144 (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y1} a_{y2} - a_{y1} a_{y2}) (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y1} a_{y2} - a_{y1} a_{y2}) (a_{y1} a_{y2} - a_{y1} a_{y2}) (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y1} a_{y2} - a_{y1} a_{y2}) (a_{y1} a_{y1} - a_{y1} a_{y2}) (a_{y1} a_{y2} - a_{y1} a_{y2}) (a_{y1} a_{y1} - a_{y1} a_{y1} a_{y2}) (a_{y1} a_{y1} - a_{y1} a_{y2}) (a_{y1} a_{y1} - a_{y1} a_{y1}
a_{y1}\,c_{x1})\,(a_{x1}\,d_{y1} - a_{y1}\,d_{x1})\,(a_{x1}\,d_{y2} - a_{y1}\,d_{x2})\,(a_{y2}\,b_{x1} - a_{x2}\,b_{y1}) + 72\,(a_{x1}\,a_{y2} - a_{x2}\,a_{y1})\,(a_{x1}\,b_{y2} - a_{y1}\,a_{x2})\,(a_{y2}\,b_{y1} - a_{y2}\,a_{y1}) + 32\,(a_{y1}\,a_{y2} - a_{y2}\,a_{y1})\,(a_{y2}\,b_{y2} - a_{y2}\,a_{y1})\,(a_{y2}\,b_{y2} - a_{y2}\,a_{y2}) + 32\,(a_{y2}\,a_{y2} - a_{y2}\,a_{y2})\,(a_{y2}\,b_{y2} - a_{y2}\,a_{y2}) + 32\,(a_{y2}\,a_{y2} - a_{y2}\,a_{y2})\,(a_{y2}\,a_{y2} - a_{y2}\,a_{y2}) + 32\,(a_{y2}\,a_{y2} - a_{y2}\,a_{y2}) + 32\,(a_{y2}\,a_{y2} - a_{y2}\,a_{y2})\,(a_{y2}\,a_{y2} - a_{y2}\,a_{y2}) + 32\,(a_{y2}\,a_{y2} - a_{y2}\,a_{y2}) + 32\,(a_{y2}\,a_{y2} - a_{y2}\,a_{y2})\,(a_{y2}\,a_{y2} - a_{y2}\,a_{y2}) + 32\,(a_{y2}\,a_{y2} - a_{y2}\,a_{y2}) + 32\,(a_{y2}\,
(a_{u1} b_{u2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) - 144 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} a_{y1}) - 144 (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y1} a_{y1} - a_{y1} a_{y1}) - 144 (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y1} a_{y1} - a_{y1} a_{y1}) - 144 (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y1} a_{y1} - a_{y1} a_{y1}) - 144 (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y1} a_{y1} - a_{y1} a_{y1}) - 144 (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y1} a_{y1} - a_{y1} a_{y1}) - 144 (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y1} a_{y1} - a_{y1} a_{y1}) - 144 (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y1} a_{y1} - a_{y1} a_{y1}) - 144 (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y1} a_{y1} - a_{y1} a_{y1}) - 144 (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y1} a_{y1} - a_{y1} a_{y1}) - 144 (a_{y1} 
(a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (b_{y2} d_{x1} - b_{x2} d_{y1}) - 72 (a_{x1} a_{y2} - a_{y1} c_{x2}) (a_{x1} a_{y2} - a_{y1} a_{x2}) (a_{x1}
(a_{x2} a_{v1}) (a_{x1} b_{v1} - a_{v1} b_{x1}) (a_{x1} b_{v2} - a_{v1} b_{x2})^2 (a_{x1} c_{v2} - a_{v1} c_{x2}) (c_{x1} d_{v1} - c_{v1} d_{x1}) - 72 (a_{x1} a_{v2} - a_{v1} c_{x2}) (a_{x2} a_{v1} a_{v2} - a_{v2} a_{v1} a_{v2})
a_{x2} a_{y1}) \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right) \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right) \left(a_{x1} c_{y2} - a_{y1} c_{x2}\right)^{2} \left(a_{y2} d_{x1} - a_{x2} d_{y1}\right) - 144 \left(a_{x1} a_{y2} - a_{y1} c_{x2}\right)^{2} \left(a_{y2} d_{x1} - a_{x2} d_{y1}\right) - 144 \left(a_{x1} a_{y2} - a_{y1} c_{x2}\right)^{2} \left(a_{y2} d_{x1} - a_{x2} d_{y1}\right) - 144 \left(a_{x1} a_{y2} - a_{y1} c_{x2}\right)^{2} \left(a_{y2} d_{x1} - a_{x2} d_{y1}\right) - 144 \left(a_{x1} a_{y2} - a_{y1} c_{x2}\right)^{2} \left(a_{y2} d_{x1} - a_{x2} d_{y1}\right) - 144 \left(a_{x1} a_{y2} - a_{y1} c_{x2}\right)^{2} \left(a_{y2} d_{x1} - a_{x2} d_{y1}\right) - 144 \left(a_{x1} a_{y2} - a_{y1} c_{x2}\right)^{2} \left(a_{y2} d_{x1} - a_{x2} d_{y1}\right) - 144 \left(a_{x1} a_{y2} - a_{y1} c_{x2}\right)^{2} \left(a_{y2} d_{x1} - a_{x2} d_{y1}\right) - 144 \left(a_{x1} a_{y2} - a_{y1} c_{x2}\right)^{2} \left(a_{y2} d_{x1} - a_{x2} d_{y1}\right) - 144 \left(a_{x1} a_{y2} - a_{y1} c_{x2}\right)^{2} \left(a_{y2} d_{x1} - a_{x2} d_{y1}\right) - 144 \left(a_{x1} a_{y2} - a_{y1} c_{x2}\right)^{2} \left(a_{y2} d_{x1} - a_{x2} d_{y1}\right) - 144 \left(a_{x1} a_{y2} - a_{y1} c_{x2}\right)^{2} \left(a_{y2} d_{x1} - a_{x2} d_{y1}\right) - 144 \left(a_{x1} a_{y2} - a_{y1} c_{x2}\right)^{2} \left(a_{y2} d_{x1} - a_{x2} d_{y1}\right) - 144 \left(a_{x1} a_{y2} - a_{y1} c_{x2}\right)^{2} \left(a_{y2} d_{x1} - a_{x2} d_{y1}\right) - 144 \left(a_{x1} a_{y2} - a_{y1} c_{x2}\right)^{2} \left(a_{y2} d_{x1} - a_{x2} d_{y1}\right) - 144 \left(a_{x1} a_{y2} - a_{y1} c_{x2}\right)^{2} \left(a_{y2} d_{x1} - a_{x2} d_{y1}\right) - 144 \left(a_{x1} a_{y2} - a_{y1} c_{x2}\right)^{2} \left(a_{y2} d_{x1} - a_{y2} d_{y1}\right) - 144 \left(a_{x1} a_{y2} - a_{y1} c_{x2}\right)^{2} \left(a_{y2} d_{x1} - a_{y2} d_{y1}\right) - 144 \left(a_{x1} a_{y2} - a_{y1} c_{x2}\right)^{2} \left(a_{y2} d_{x1} - a_{y2} d_{y1}\right) - 144 \left(a_{x1} a_{y2} - a_{y1} c_{x2}\right)^{2} \left(a_{y2} d_{x1} - a_{y2} d_{y1}\right) - 144 \left(a_{x1} a_{y2} - a_{y2} d_{y1}\right) - 144 \left(a_{x1} a_{y2} - a_{y2} d_{y1}\right) - 144 \left(a_{x1} a_{y2} - a_{y2} d_{y2}\right) - 144 \left
(a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (d_{x1} d_{y2} - d_{x2} d_{y1}) - 72 (a_{x1} a_{y2} - a_{y1} b_{x2}) (a_{x2} a_{y1})^2 (a_{x2} a_{y1} a_{y2} - a_{y2} a_{y1} a_{y2}) - 72 (a_{x2} a_{y2} a_{y2}
(a_{x2} a_{y1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1}) + 72 (a_{x1} a_{y2} - a_{y1} d_{x2}) (a_{x2} a_{y1} a_{y2} - a_{y1} a_{y2}) (a_{x2} a_{y1} a_{y2} - a_{y1} a_{y2} - a_{y1} a_{y2}) (a_{x2} a_{y1} a_{y2} - a_{y1} a_{y2}) (a_{x2} a_{y1} a_{y2} - a_{y1} a_{y2} a_{y1} a_{y2}) (a_{x2} a_{y1} a_{y2} - a_{y1} a_{y2} a_{y2} a_{y1} a_{y2} a_{y1} a_{y2} 
(a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (c_{x1} d_{y1} - c_{y1} d_{x1})
c_9 = -20 \left( a_{x1} \, a_{y2} - a_{x2} \, a_{y1} \right)^3 \left( a_{x1} \, d_{y1} - a_{y1} \, d_{x1} \right)^3 + 60 \left( a_{x1} \, a_{y2} - a_{x2} \, a_{y1} \right)^3 \left( a_{x1} \, d_{y1} - a_{y1} \, d_{x1} \right)^2 \left( a_{x1} \, d_{y2} - a_{y2} \, a_{y1} \right)^3 \left( a_{x1} \, d_{y1} - a_{y1} \, d_{x1} \right)^2 + 60 \left( a_{x1} \, a_{y2} - a_{x2} \, a_{y1} \right)^3 \left( a_{x1} \, d_{y1} - a_{y1} \, d_{x1} \right)^2 + 60 \left( a_{x1} \, a_{y2} - a_{x2} \, a_{y1} \right)^3 \left( a_{x1} \, d_{y1} - a_{y1} \, d_{x1} \right)^2 + 60 \left( a_{x1} \, a_{y2} - a_{x2} \, a_{y1} \right)^3 \left( a_{x1} \, d_{y1} - a_{y1} \, d_{x1} \right)^2 + 60 \left( a_{x1} \, a_{y2} - a_{x2} \, a_{y1} \right)^3 \left( a_{x1} \, d_{y1} - a_{y1} \, d_{x1} \right)^2 + 60 \left( a_{x1} \, a_{y2} - a_{x2} \, a_{y1} \right)^3 \left( a_{x1} \, d_{y1} - a_{y1} \, d_{x1} \right)^2 + 60 \left( a_{x1} \, a_{y2} - a_{x2} \, a_{y1} \right)^3 \left( a_{x1} \, d_{y1} - a_{y1} \, d_{x1} \right)^2 + 60 \left( a_{x1} \, a_{y2} - a_{x2} \, a_{y1} \right)^3 \left( a_{x1} \, d_{y1} - a_{y1} \, d_{x1} \right)^2 + 60 \left( a_{x1} \, a_{y2} - a_{x2} \, a_{y1} \right)^3 \left( a_{x1} \, d_{y1} - a_{y1} \, d_{x1} \right)^2 + 60 \left( a_{x1} \, a_{y2} - a_{x2} \, a_{y1} \right)^3 \left( a_{x1} \, d_{y1} - a_{y1} \, d_{x1} \right)^2 + 60 \left( a_{x1} \, a_{y2} - a_{x2} \, a_{y1} \right)^3 \left( a_{x1} \, d_{y1} - a_{y1} \, d_{x1} \right)^2 + 60 \left( a_{x1} \, a_{y2} - a_{x2} \, a_{y1} \right)^3 \left( a_{x1} \, d_{y1} - a_{y1} \, d_{x1} \right)^2 + 60 \left( a_{x1} \, a_{y2} - a_{x2} \, a_{y1} \right)^3 \left( a_{x1} \, d_{y1} - a_{y1} \, d_{x1} \right)^2 + 60 \left( a_{x1} \, a_{y2} - a_{x2} \, a_{y1} \right)^3 \left( a_{x1} \, d_{y1} - a_{y1} \, d_{x1} \right)^2 + 60 \left( a_{x1} \, a_{y2} - a_{x2} \, a_{y1} \right)^3 \left( a_{x1} \, d_{y1} - a_{y1} \, d_{x1} \right)^2 + 60 \left( a_{x1} \, a_{y2} - a_{x2} \, a_{y1} \right)^3 + 60 \left( a_{x1} \, a_{y2} - a_{x2} \, a_{y1} \right)^3 + 60 \left( a_{x1} \, a_{y2} - a_{x2} \, a_{y1} \right)^3 + 60 \left( a_{x1} \, a_{y2} - a_{x2} \, a_{y1} \right)^3 + 60 \left( a_{x1} \, a_{y2} - a_{x2} \, a_{y1} \right)^3 + 60 \left( a_{x1} \, a_{y2} - a_{x2} \, a_{y1} \right)^3 + 60 \left( a_{x1} \, a_{y2} - a_{x2} \, a_{y1} \right)^3 + 60 \left( a_{x1} \, a_{y2} - a_{x2} \, a_{y1} \right)^3 + 60 \left( a_{x1} \, a_{y2} - a_{x2} \, a_{y1} \right)^3 + 60 \left( a_{x1} \, a_{y2} - a_{x2} \, a_{y2} \right)^3 + 60 \left( a_{x1} \, a_{y2} - a_{y2} \, a_{y2} \right)^3 + 60 \left( a_{x1}
(a_{y1} d_{x2}) + 180 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 +
60\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)^{3}\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)^{2}-60\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)^{3}\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)^{2}
(a_{v1} d_{v1}) (a_{v1} d_{v2} - a_{v1} d_{v2})^2 - 360 (a_{v1} a_{v2} - a_{v2} a_{v1})^2 (a_{v1} b_{v2} - a_{v1} b_{v2}) (a_{v1} c_{v2} - a_{v1} c_{v2}) (a_{v1} d_{v1} - a_{v2} a_{v1})^2
(a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) - 60 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (a_{x1} d_{y1} - a_{y1} d_{x1}) - 60 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (a_{x1} d_{y1} - a_{y1} d_{x1}) - 60 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2})^3 (a_{x1} d_{y1} - a_{y1} d_{x1}) - 60 (a_{x1} a_{y2} - a_{y1} a_{x2})^2 (a_{x1} a_{y2} - a_{y1} a_{x2}) - 60 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} a_{y2} - a_{y1} a_{x2})^3 (a_{x1} a_{y1} - a_{y1} a_{x1}) - 60 (a_{x1} a_{y2} - a_{y1} a_{x2})^2 (a_{x1} a_{y2} - a_{y1} a_{x2})^3 (a_{x1} a_{y1} - a_{y1} a_{x1}) - 60 (a_{x1} a_{y2} - a_{y1} a_{x2})^2 (a_{x1} a_{y2} - a_{y1} a_{x2})^3 (a_{x1} a_{y1} - a_{y1} a_{x1})^2 (a_{x1} a_{y2} - a_{y1} a_{x2})^3 (a_{x1} a_{y1} - a_{y1} a_{x1})^2 (a_{x1} a_{y2} - a_{y1} a_{x2})^3 (a_{x1} a_{y1} - a_{y1} a_{x1})^2 (a_{x1} a_{y2} - a_{y1} a_{x2})^3 (a_{x1} a_{y1} - a_{y1} a_{x1})^2 (a_{x1} a_{y2} - a_{y1} a_{x1} a_{y2} - a_{y1} a_{x2})^3 (a_{x1} a_{y1} - a_{y1} a_{x1} a_{y2} - a_{y1} a_{x1} a_{y1} a_{x2})^2 (a_{x1} a_{y1} - a_{y1} a_{y1} a_{y1} a_{x1} a_{y1} a_{y1}
120\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)^{3}\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)-180\left(a_{x1}\,a_{y2}-a_{y1}\,d_{x2}\right)
(a_{x2} a_{y1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x1}) - 30 (a_{x1} b_{y2} - a_{y1} b_{x2})^4 (a_{x1} c_{y2} - a_
(a_{x1} a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) + 20 (a_{x1} a_{y2} - a_{x2} a_{y1})^3 (a_{x1} d_{y2} - a_{y1} d_{x2})^3 + 180 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y2} - a_{y2} a_{y2})^2
a_{u1} b_{x2}) (a_{x1} c_{u2} - a_{u1} c_{x2}) (a_{x1} d_{u2} - a_{u1} d_{x2})^2 + 60 (a_{x1} a_{u2} - a_{x2} a_{u1})^2 (a_{x1} c_{u2} - a_{u1} c_{x2})^3 (a_{x1} d_{u2} - a_{u2} a_{u1})^2
a_{y1} d_{x2}) + 60 \left(a_{x1} a_{y2} - a_{x2} a_{y1}\right) \left(a_{x1} b_{y2} - a_{y1} b_{x2}\right)^3 \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right)^2 + 180 \left(a_{x1} a_{y2} - a_{x2} a_{y1}\right) \left(a_{x1} b_{y2} - a_{y1} b_{x2}\right)^3 \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right)^2 + 180 \left(a_{x1} a_{y2} - a_{x2} a_{y1}\right) \left(a_{x1} b_{y2} - a_{y1} b_{x2}\right)^3 \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right)^2 + 180 \left(a_{x1} a_{y2} - a_{x2} a_{y1}\right) \left(a_{x1} b_{y2} - a_{y1} b_{x2}\right)^3 \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right)^2 + 180 \left(a_{x1} a_{y2} - a_{x2} a_{y1}\right) \left(a_{x1} b_{y2} - a_{y1} b_{x2}\right)^3 \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right)^2 + 180 \left(a_{x1} a_{y2} - a_{x2} a_{y1}\right) \left(a_{x1} b_{y2} - a_{y1} b_{x2}\right)^3 \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right)^2 + 180 \left(a_{x1} a_{y2} - a_{x2} a_{y1}\right) \left(a_{x1} b_{y2} - a_{y1} b_{x2}\right)^3 \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right)^2 + 180 \left(a_{x1} a_{y2} - a_{x2} a_{y1}\right) \left(a_{x1} b_{y2} - a_{y1} b_{x2}\right)^3 \left(a_{x1} d_{y2} - a_{y1} d_{x2}\right)^2 + 180 \left(a_{x1} a_{y2} - a_{y1} a_{y2}\right)^2 + 180 \left(a_{x1} a_{y2} - a_{y1} a_{y2}\right)^2 + 180 \left(a_{x1} a_{y2} - a_{y1} a_{y2}\right)^2 + 180 \left(a_{x1} a_{y2} - a_{y2} a_{y1}\right) \left(a_{x1} a_{y2} - a_{y2} a_{y2}\right)^2 + 180 \left(
(a_{u1} b_{u2})^2 (a_{x1} c_{u2} - a_{u1} c_{x2})^2 (a_{x1} d_{u2} - a_{u1} d_{x2}) + 30 (a_{x1} a_{u2} - a_{x2} a_{u1}) (a_{x1} b_{u2} - a_{u1} b_{x2}) (a_{x1} c_{u2} - a_{u1} b_{x2}) (a_
(a_{u1} c_{x2})^4 + 30 (a_{x1} b_{y2} - a_{y1} b_{x2})^4 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) + 20 (a_{x1} b_{y2} - a_{y1} b_{x2})^3 (a_{x1} c_{y2} - a_{y1} b_{x2})^4 + 30 (a_{x1} b_{y2} - a_{y1} b_{x2})^4 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) + 20 (a_{x1} b_{y2} - a_{y1} b_{x2})^3 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) + 20 (a_{x1} d_{y2} - a_{y1} d_{x2})^3 (a_{x1} c_{y2} - a_{y1} d_{x2}) + 20 (a_{x1} d_{y2} - a_{y1} d_{x2})^3 (a_{x1} d_{y2} - a_{y1} d_{x2}) + 20 (a_{x1} d_{y2} - a_{y1} d_{x2})^3 (a_{x1} d_{y2} - a_{y1} d_{x2}) + 20 (a_{x1} d_{y2} - a_{y1} d_{x2})^3 (a_{x1} d_{y2} - a_{y1} d_{x2}) + 20 (a_{x1} d_{y2} - a_{y1} d_{x2})^3 (a_{x1} d_{y2} - a_{y1} d_{x2}) + 20 (a_{x1} d_{y2} - a_{y1} d_{x2})^3 (a_{x1} d_{y2} - a_{y1} d_{x2}) + 20 (a_{x1} d_{y2} - a_{y1} d_{x2})^3 (a_{x1} d_{y2} - a_{y1} d_{x2}) + 20 (a_{x1} d_{y2} - a_{y1} d_{x2})^3 (a_{x1} d_{y2} - a_{y1} d_{x2}) + 20 (a_{x1} d_{y2} - a_{y1} d_{x2})^3 (a_{x1} d_{y2} - a_{y1} d_{x2}) + 20 (a_{x1} d_{y2} - a_{y1} d_{x2})^3 (a_{x1} d_{y2} - a_{y1} d_{x2})^3 (a_{x1} d_{y2} - a_{y1} d_{x2}) + 20 (a_{x1} d_{y2} - a_{y1} d_{x2})^3 (a_{x1} d_{y2} - a_{y1} d_{x2}) + 20 (a_{x1} d_{y2} - a_{y1} d_{x2})^3 (a_{x1} d_{y2} - a_{y1} d_{x2}) + 20 (a_{x1} d_{y2} - a_{y1} d_{x2})^3 (a_{x1} d_{y2} - a_{y1} d_{x2}) + 20 (a_{x1} d_{y2} - a_{y1} d_{x2})^3 (a_{x1} d_{y2} - a_{y1} d_{x2}) + 20 (a_{x1} d_{y2} - a_
(a_{u1} c_{x2})^3 - 4 (a_{x1} b_{u1} - a_{u1} b_{x1})^2 (a_{u2} b_{x1} - a_{x2} b_{u1})^3 (b_{x1} d_{u1} - b_{u1} d_{x1}) + 4 (a_{x1} b_{u1} - a_{u1} b_{x1})^2 (a_{u2} b_{x1} - a_{u2} b_{u1})^3 (a_{u2} b_{u2} - a_{u2} b_{u1})^3 (a_{u2} b_{u2} - a_{u2} b_{u2})^3 (a_{u2} b_{u2} - a_{u2} b_{u2} - a_{u2} b_{u2})^3 (a_{u2} b_{u2} - a_{u2} b_{u2} - a_{u2} b_{u2})^3 (a_{u2} b_{u2} - a_{u2} b_{u2} - a_{u2
a_{x2}\,b_{y1})^3\,(b_{x1}\,d_{y2}-b_{y1}\,d_{x2})+12\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})^2\,(a_{y2}\,b_{x1}-a_{x2}\,b_{y1})^2\,(b_{x1}\,b_{y2}-b_{x2}\,b_{y1})\,(b_{x1}\,c_{y2}-b_{y2}\,b_{y1})^2
(b_{y1} c_{x2}) + 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} b_{y2} - b_{x2} b_{y1})^3 - 4 (a_{x1} a_{y2} - a_{x2} a_{y1})^3 (a_{x1} d_{y2} - a_{y2} a_{y1})^3 (a_{y1} d_{y2} - a_{y2} a_{y1})^3 (a_{y2} d_{y2} - a_{y2} a_{y2} - a_{y2} a_{y1})^3 (a_{y2} d_{y2} - a_{y2} a_{y2} - a_{y2} a_{y2})^3 (a_{y2} d_{y2} - a_{y2} a_{y2} - a_{y2} a_{y2})^3 (a_{y2} d_{y2} - a_{y2} a_{y2} - a_{y2} a_{y2} - a_{y2} a_{y2})^3 (a_{y2} d_{y2} - a_{y2} a_{y2} - a_{y2} a_{y2} - a_{y2} a_{y2})^3 (a_{y2} d_{y2} - a_{y2} a_{y2} - a_{y2} a_
a_{y1} d_{x2})^2 (b_{x1} c_{y1} - b_{y1} c_{x1}) + 8 (a_{x1} a_{y2} - a_{x2} a_{y1})^3 (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} c_{y1} - a_{y1} d_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x2}) (a_{x
(b_{u1} c_{x1}) - 4 (a_{x1} a_{u2} - a_{x2} a_{u1})^3 (a_{x1} d_{u1} - a_{u1} d_{x1})^2 (b_{x1} c_{u1} - b_{u1} c_{x1}) - 20 (a_{x1} a_{u2} - a_{x2} a_{u1})^3 (a_{x1} b_{u1} - a_{u1} d_{x1})^2 (a_{x1} a_{u2} - a_{u2} a_{u1})^3 (a_{x1} a_{u2} - a_{u2} a_{u2})^3 (a_{x1} a_{u2} - a_{u2} a_{u2} - a_{u2} a_{u2})^3 (a_{x1} a_{u2} - a_{u2} a_{u2} - a_{u2} a_{u2})^3 (a_{x1} a_{u2} - 
(a_{y1} b_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2})^2 + 8 (a_{x1} a_{y2} - a_{x2} a_{y1})^3 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (c_{x1} d_{y2} - c_{y1} d_{x2}) +
12\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)^{3}\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(b_{x1}\,d_{y1}-b_{y1}\,d_{x1}\right)\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)-20\left(a_{x1}\,a_{y2}-a_{y2}\,a_{y1}\right)^{3}
(a_{x2} a_{y1})^3 (a_{x1} b_{y1} - a_{y1} b_{x1}) (b_{x1} d_{y1} - b_{y1} d_{x1})^2 - 8 (a_{x1} a_{y2} - a_{x2} a_{y1})^3 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (c_{x1} d_{y1} - a
(c_{y1} d_{x1}) + 36 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x1} d_{y1} - a_{y1} b_{x2}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} a_{y2} - a_{y1} a_{y1})^2 (a_{x1} a_{y1} - a_{y1} a_{y1}) (a_{x1} a_{y2} - a_{y1} a_{y1})^2 (a_{x1} a_{y2} - a_{y1} a_{y1})^2 (a_{x1} a_{y1} - a_{y1} a_{y1}) (a_{x1} a_{y2} - a_{y1} a_{y1})^2 (a_{x1} a_{y1} - a_{y1} a_{y1}) (a_{x1} a_{y2} - a_{y1} a_{y1}) (a_{x1} a_{y2} - a_{y1} a_{y1}) (a_{x1} a_{y2} - a_{y1} a_{y1})^2 (a_{x1} a_{y1} - a_{y1} a_{y1}) (a_{x1} a_{y2} - a_{y1} a_{y1})^2 (a_{x1} a_{y1} - a_{y1} a_{y1}) (a_{x1} a_{y2} - a_{y1} a_{y1}) (a_{x1} a_{y2} - a_{y1} a_{y1}) (a_{x1} a_{y2} - a_{y1} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{y1}) (a_{x1} a_{y2} - a_{y1} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{y1}) (a_{x1} a_{y2} - a_{y1} a_{y1}) (a_{x1} a_{y2} - a_{y1} a_{y1}) (a_{x1} a_{y1} - a_{y1} a
(b_{y1} d_{x1}) + 6 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (c_{x1} c_{y2} - c_{x2} c_{y1}) - (c_{x1} c_{y2} - c_{x2} c_{y1})^2
36 \left(a_{x1} \, a_{y2} - a_{x2} \, a_{y1}\right)^2 \left(a_{x1} \, b_{y1} - a_{y1} \, b_{x1}\right) \left(a_{x1} \, b_{y2} - a_{y1} \, b_{x2}\right) \left(b_{x1} \, c_{y2} - b_{y1} \, c_{x2}\right) \left(b_{x1} \, d_{y2} - b_{y1} \, d_{x2}\right) - a_{y1} \, d_{y2} + a_{y1} \, d_
96\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)^{2}\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)\left(c_{x1}\,d_{y1}-c_{y1}\,d_{x1}\right)+
96\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)^{2}\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)\left(c_{x1}\,d_{y2}-c_{y1}\,d_{x2}\right)-a_{y1}\,d_{y2}
48\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)^{2}\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)\left(b_{x1}\,d_{y1}-b_{y1}\,d_{x1}\right)+
36\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)^{2}\left(b_{x1}\,b_{y2}-b_{x2}\,b_{y1}\right)\left(b_{x1}\,d_{y1}-b_{y1}\,d_{x1}\right)+
8\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)^{2}\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{2}\left(b_{y2}\,c_{x1}-b_{x2}\,c_{y1}\right)-36\left(a_{x1}\,a_{y2}-a_{y1}\,b_{x2}\right)^{2}
a_{x2} a_{y1}) \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right) \left(a_{x1} b_{y2} - a_{y1} b_{x2}\right)^{2} \left(b_{x1} b_{y2} - b_{x2} b_{y1}\right) \left(b_{x1} d_{y2} - b_{y1} d_{x2}\right) - 18 \left(a_{x1} a_{y2} - b_{y1} d_{x2}\right) - 18 \left(a_{x1} a_{
(a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (b_{x1} c_{y2} - b_{y1} c_{x2})^2 - 20 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{y2})^2 - 20 (a_{y1} a_{y2} - a_{y2} a_{y1})^2 (a_{y1} a_{y2} - a_{y1} a_{y2} - a_{y1} a_{y2})^2 - 20 (a_{y1} a_{y2} - a_{y2} a_{y1})^2 - 20 (a_{y1} a_{y2} - a_{y1} a_{y2} - a_{y1} a_{y2} - a_{y1} a_{y2} - a_{y1} a_{y1} a_{y2} - a_{y1} a_{y1} a_{y2} - a_{y1} a_{y2} a_{y1} a_{y2} - a_{y1} a_{y1} a_{y2} - a_{y1} a_{y1} a_{y1} a_{y2} - a_{y1} a_
```

 $(a_{x1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (b_{x1} c_{y2} - b_{y1} c_{x2})^2 - 56 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^2 - 66 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^2 - 66 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} a_{y2} - a_{y1} a_{y1} a_{y2}) (a_{x1} a_{y2} - a_{y1} a_{y1} a_{y1} a_{y1} a_{y2}) (a_{x1} a_{y2} - a_{y1} a_{y1}$ $(a_{x1} b_{x2})^3 (c_{x1} d_{y1} - c_{y1} d_{x1}) + 56 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^3 (c_{x1} d_{y2} - a_{y1} b_{x2})^3 (c_{x1} d_{y2} - a_{y1} b_{x2})^3 (c_{y1} d_{y2} - a_{y1} b_{y2})^3 (c_{y1} d_{y2} - a_{y2} a_{y1}) (a_{y1} d_{y2} - a_{y1} d_{y2})^3 (c_{y1} d_{y2} - a_{y2} a_{y1}) (a_{y1} d_{y2} - a_{y2} a_{y1}) (a_{y1} d_{y2} - a_{y1} d_{y2})^3 (c_{y1} d_{y2} - a_{y2} a_{y1}) (a_{y1} d_{y2} - a_{y2} a_{y2}) (a_{y2} d_{y2}$ $(c_{y1} d_{x2}) + 144 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (c_{x1} c_{y2} - a_{y1} c_{x2}) (c_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x2} c_{y2} - a_{y1} c_{y2}) (a_{x2} c_{y2} - a_{y2} c_{y2}) (a_{$ $(c_{x2} c_{y1}) + 36 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (c_{x1} c_{y2} - c_{x2} c_{y1}) - (c_{x2} c_{y1})^2 (a_{x2} c_{y2} - a_{y1} c_{x2})^2 (c_{x2} c_{y2} - c_{x2} c_{y1}) - (c_{x2} c_{y2} - a_{y2} c_{y2})^2 (c_{x2} c_{y2} - c_{x2} c_{y1}) - (c_{x2} c_{y2} - a_{y2} c_{y2})^2 (c_{x2} c_{y2} - c_{x2} c_{y1}) - (c_{x2} c_{y2} - c_{y2} c_{y2})^2 (c_{y2} c_{y2} - c_{y2} c_{y2} - c_{y2} c_{y2})^2 (c_{y2} c_{y2} - c_{y2} c_{y2} - c_{y2} c_{y2})^2 (c_{y2} c_{y2} - c_{y2} c_{y2} - c_{y2} c_{y2} c_{y2})^2 (c_{y2} c_{y2} - c_{y2} c_{y2} - c_{y2} c_{y2} c_{y2})^2 (c_{y2} c_{y2} - c_{y2} c_{y2} c_{y2} - c_{y2} c_{y2$ $16\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)^{3}\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)\left(b_{x1}\,d_{y1}-b_{y1}\,d_{x1}\right)+20\left(a_{x1}\,a_{y2}-a_{y1}\,b_{x2}\right)^{3}$ $(a_{x2} a_{v1})^2 (a_{x1} c_{v2} - a_{v1} c_{x2})^3 (b_{x1} c_{v1} - b_{v1} c_{x1}) + 24 (a_{x1} a_{v2} - a_{x2} a_{v1}) (a_{x1} b_{v1} - a_{v1} b_{x1}) (a_{x1} c_{v2} - a_{v2} a_{v1})$ $(a_{u1} c_{x2})^3 (a_{u2} c_{x1} - a_{x2} c_{v1}) + 8 (a_{x1} a_{u2} - a_{x2} a_{v1})^2 (a_{x1} b_{v1} - a_{v1} b_{x1}) (a_{v2} b_{x1} - a_{x2} b_{v1}) (b_{x1} c_{v1} - a_{v1} b_{v1}) (a_{v2} b_{x1} - a_{v2} b_{v1}) (a_{v2} b_{v1} - a_{v2} b_{v1}) (a_{v2} b_{v2} - a_{v2} b_{v2}) (a_{$ $b_{y1} c_{x1}$) $(b_{x1} d_{y1} - b_{y1} d_{x1}) + 4 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{y2} c_{x1} - a_{y2} a_{y1}) (a_{y2} c_{x1} - a_{y2} a_{y1})$ $(a_{x2} c_{y1}) (b_{x1} d_{y1} - b_{y1} d_{x1}) + 2 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) (b_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) (a_{y1} c_{y1} - a_{y1} c_{y1})^2 (a_{y2} c_{x1} - a_{y2} c_{y1}) (a_{y1} c_{y1} - a_{y1} c_{y1})^2 (a_{y2} c_{x1} - a_{y2} c_{y1}) (a_{y1} c_{y1} - a_{y1} c_{y1})^2 (a_{y2} c_{x1} - a_{y2} c_{y1}) (a_{y1} c_{y1} - a_{y1} c_{y1})^2 (a_{y2} c_{x1} - a_{y2} c_{y1}) (a_{y1} c_{y1} - a_{y1} c_{y1})^2 (a_{y2} c_{x1} - a_{y2} c_{y1}) (a_{y1} c_{y1} - a_{y1} c_{y1})^2 (a_{y2} c_{x1} - a_{y2} c_{y1}) (a_{y1} c_{y1} - a_{y1} c_{y1})^2 (a_{y2} c_{x1} - a_{y2} c_{y1}) (a_{y1} c_{y1} - a_{y1} c_{y1})^2 (a_{y2} c_{x1} - a_{y2} c_{y1}) (a_{y1} c_{y1} - a_{y1} c_{y1})^2 (a_{y2} c_{x1} - a_{y2} c_{y1}) (a_{y1} c_{y1} - a_{y1} c_{y1})^2 (a_{y1} c_{y1} - a_{y1} c_{y1} c_{y1})^2 (a_{y1} c_{y1} - a_{y1} c_{y1} c_{y1} - a_{y1} c_{y1} c_{y1})^2 (a_{y1} c_{y1} - a_{y1} c_{y1} c_$ $b_{y1} c_{x1} + 6 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{y2} c_{x1} - a_{x2} c_{y1})^2 6\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{2}\left(a_{y2}\,b_{x1}-a_{x2}\,b_{y1}\right)^{2}\left(a_{y2}\,c_{x1}-a_{x2}\,c_{y1}\right)-8\left(a_{x1}\,a_{y2}-a_{y1}\,a_{x1}\,a_{y2}-a_{y1}\,a_{x1}\,a_{y2}\right)$ $(a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) - 4 (a_{x1} a_{y2} - b_{y1} d_{x2})$ $(a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{y2} c_{x1} - a_{x2} c_{y1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) + 24 (a_{x1} a_{y2} - a_{y2} b_{y1}) (a_{y2} c_{x1} - a_{y2} c_{y1}) (a_{y$ $(a_{x2}\,a_{y1})^2\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})\,(b_{x1}\,b_{y2}-b_{x2}\,b_{y1})\,(b_{x1}\,c_{y1}-b_{y1}\,c_{x1})\,(b_{x1}\,c_{y2}-b_{y1}\,c_{x2})-10\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})\,(a_{x1}\,b_{y2}-b_{x2}\,b_{y1})\,(a_{x1}\,b_{y1}-b_{y1}\,c_{x1})\,(a_{x1}\,b_{y2}-b_{y1}\,c_{x2})-10\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})\,(a_{x1}\,b_{y2}-b_{y2}\,b_{y1})\,(a_{x1}\,b_{y1}-b_{y1}\,b_{x1})\,(a_{x1}\,b_{y2}-b_{y2}\,b_{y1})\,(a_{x1}\,b_{y1}-b_{y1}\,b_{x1})\,(a_{x1}\,b_{y2}-b_{y2}\,b_{y1})\,(a_{x1}\,b_{y1}-b_{y1}\,b_{x1})\,(a_{x1}\,b_{y2}-b_{y2}\,b_{y1})\,(a_{x1}\,b_{y1}-b_{y1}\,b_{x1})\,(a_{x1}\,b_{y2}-b_{y2}\,b_{y1})\,(a_{x1}\,b_{y1}-b_{y1}\,b_{x1})\,(a_{x1}\,b_{y2}-b_{y2}\,b_{y1})\,(a_{x1}\,b_{y1}-b_{y1}\,b_{x1})\,(a_{x1}\,b_{y2}-b_{y2}\,b_{y1})\,(a_{x1}\,b_{y1}-b_{y1}\,b_{x1})\,(a_{x1}\,b_{y2}-b_{y2}\,b_{y2}-b_{y2}\,b_{y2})\,(a_{x1}\,b_{y2}-b_{y2}-b_{y2}\,b_{y2}-b_{y2}-b_{y2}\,b_{y2}-b_{y2}-b_{y2}-b_{y2}-b_{y2}-b_{y2}-b_{y2}-b_{y2}-b_{y2}-b_{y2}-b_{y2}-b_{y2}-b_{y2}$ $(a_{u1} b_{u1}) (a_{x1} b_{u2} - a_{u1} b_{x2})^3 (b_{x1} b_{u2} - b_{x2} b_{u1}) (b_{x1} c_{u2} - b_{u1} c_{x2}) - 24 (a_{x1} a_{u2} - a_{x2} a_{u1})^2 (a_{x1} b_{u1} - a_{u2} a_{u2})^2 (a_{x1} b_{u2} - a_{u2} a_{u1})^2 (a_{x2} b_{u2} - a_{u2} a_{u2})^2 (a_{x2} b_{u2} - a_{u2} a_{u2} a_{u2})^2 (a_{x2} b_{u2} - a_{u2} a_{u2} a_{u2} a_{u2})^2 (a_{x2} b_{u2} - a_{u2} a_{u2} a_{$ $(a_{y1} b_{x1})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) (c_{x1} d_{y1} - c_{y1} d_{x1}) + 20 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{y2} b_{x2} - a_{y2} b_{x2})^2 (a_{y2} b_{x1} - a_{y2} b_{x2} - a_{y2} b_{x2})^2 (a_{y2} b_{x2} - a_{y2} b_{x2} - a_{y2} b_{x2})^2 (a_{y2} b_{x2} - a_{y2} b_{x2} - a_{y2} b_{x2})^2 (a_{y2} b_{x2} - a_{y2} b_{x2} - a_{y2}$ $(a_{x2} b_{y1})^2 (c_{x1} d_{y1} - c_{y1} d_{x1}) + 24 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) (c_{x1} d_{y2} - a_{y2} a_{y1})^2 (a_{y2} c_{y1} - a_{y2} a_{y1})^2 (a_{y1} a_{y2} - a_{y2} a_{y1})^2 (a_{y2} a_{y1} - a_{y2} a_{y1})^2 (a_{y2} a_{y1} - a_{y2} a_{y1})^2 (a_{y2} a_{y2} - a_{y2} a_{y2})^2 (a_{y2} a_{y2} - a_{y2} a_{y2} - a_{y2} a_{y2})^2 (a_{y2} a_{y2} - a_{y2} a_{y2} - a_{y2} a_{y2})^2 (a_{y2} a_{y2} - a_{y2} a_{y2} - a_{y2} a_{y2} - a_{y2} a_{y2} a_{y2})^2 (a_{y2} a_{y2} - a_{y2} a_{y2} - a_{y2} a_{y2$ $(c_{y1} d_{x2}) - 20 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1})^2 (c_{x1} d_{y2} - c_{y1} d_{x2}) +$ $84\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)\left(a_{y2}\,c_{x1}-a_{x2}\,c_{y1}\right)\left(c_{x1}\,c_{y2}-c_{x2}\,c_{y1}\right)+$ $24\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)^{3}\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)\left(b_{y2}\,c_{x1}-b_{x2}\,c_{y1}\right)-4\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x2}\right)^{3}$ $(a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^4 (c_{x1} c_{y2} - c_{x2} c_{y1}) + 2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1})^2 (a_{y2} c_{x1} - a_{y1} b_{x2})^2 (a_{y2} c_{x1} - a_{y2} b_{y1})^2 (a_{y2} c_{x1} - a_{y2} b_{y2} - a_{y2} b_{y2})^2 (a_{y2} c_{x1} - a_{y2} b_{y2} - a_{y2} b_{y2})^2 (a_{y2} c_{x2} - a_{y2} b_{y2} - a_{y2} b_{y2})^2 (a_{y2} c_{x2} - a_{y2} b_{y2} - a_{y2} b_{y2})^2 (a_{y2} c_{x2} - a_{y2} b_{y2} - a_{y2}$ $(a_{x2} c_{y1}) (b_{x1} c_{y1} - b_{y1} c_{x1}) - 6 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} b_{y2} - b_{x2} b_{y1})^2 (b_{y2} c_{x1} - a_{y1} b_{x1})^2 (b_{y2} c_{y1} - a_{y1} b_{y1})^2 (b_{y2} c_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1})^2 (b_{y2} c_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1})^2 (b_{y2} c_{y1} - a_{y1} b_{y1} - a_{y1$ $(b_{x2} c_{y1}) - 10 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{y2} c_{x1} - a_{x2} c_{y1}) (b_{x1} b_{y2} - b_{x2} b_{y1})^2 +$ $24\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)\left(b_{y2}\,c_{x1}-b_{x2}\,c_{y1}\right)^{2}+10\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)^{2}$ $(a_{x1} b_{x2})^4 (a_{x1} c_{y1} - a_{y1} c_{x1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) + 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (b_{x1} b_{y2} - a_{y1} b_{x2})^2 (b_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} b_{y2} - a_{$ $(b_{x2} b_{y1}) (b_{x2} c_{y2} - b_{y2} c_{x2}) - 6 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{y2} d_{x1} - a_{x2} d_{y1}) 6\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)^{2}\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)^{3}\left(a_{x2}\,d_{y2}-a_{y2}\,d_{x2}\right)-2\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)^{2}\left(a_{x1}\,c_{y1}-a_{y2}\,a_{y2}\right)$ $a_{u1}\,c_{x1})^3\,(a_{x2}\,b_{y2}-a_{y2}\,b_{x2})+2\,(a_{x1}\,a_{y2}-a_{x2}\,a_{y1})\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})\,(a_{y2}\,b_{x1}-a_{y2}\,b_{x2})+2\,(a_{x1}\,a_{y2}-a_{x2}\,a_{y1})\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})\,(a_{y2}\,b_{x1}-a_{y2}\,b_{x2})+2\,(a_{x1}\,a_{y2}-a_{x2}\,a_{y1})\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})\,(a_{y2}\,b_{x1}-a_{y2}\,b_{x2})+2\,(a_{x1}\,a_{y2}-a_{x2}\,a_{y1})\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})\,(a_{y2}\,b_{x1}-a_{y2}\,b_{x2})+2\,(a_{x1}\,a_{y2}-a_{x2}\,a_{y1})\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})\,(a_{x2}\,b_{y2}-a_{y1}\,c_{x1})\,(a_{y2}\,b_{x2}-a_{y2}\,b_{x2})+2\,(a_{x1}\,a_{y2}-a_{x2}\,a_{y1})\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})\,(a_{x2}\,b_{y2}-a_{y1}\,b_{x2})+2\,(a_{x1}\,a_{y2}-a_{x2}\,a_{y1})\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})\,(a_{x2}\,b_{y2}-a_{y1}\,b_{x2})+2\,(a_{x1}\,a_{y2}-a_{x2}\,a_{y1})\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})\,(a_{x2}\,b_{y2}-a_{y1}\,b_{x2})+2\,(a_{x1}\,a_{y2}-a_{x2}\,a_{y1})\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})\,(a_{x2}\,b_{y2}-a_{y1}\,b_{x2})+2\,(a_{x1}\,a_{y2}-a_{x2}\,a_{y1})\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})\,(a_{x2}\,b_{y2}-a_{y1}\,b_{x2})+2\,(a_{x1}\,a_{y2}-a_{x2}\,a_{y1})\,(a_{x2}\,b_{y2}-a_{y2}\,b_{y2}-a_{y1}\,b_{x2})+2\,(a_{x1}\,a_{y2}-a_{x2}\,a_{y1})\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x2})+2\,(a_{x1}\,a_{y2}-a_{y2}\,b_{x2})+2\,(a_{x1}\,a_{y2}-a_{y2}\,b_{y2}-a_{y2}\,b_{x2})+2\,(a_{x1}\,a_{y2}-a_{y2}\,b_{x2}-a_{y2}\,b_{x2})+2\,(a_{x1}\,a_{y2}-a_{y2}\,b_{x2}-a_{y2}\,b_{x2})+2\,(a_{x1}\,a_{y2}-a_{y2}\,b_{x2}-a_{y2}\,b_{x2})+2\,(a_{x1}\,a_{y2}-a_{y2}\,b_{x2}-a_{y2}\,b_{x2})+2\,(a_{x1}\,a_{y2}-a_{y2}\,b_{x2}-a_{y2}\,b_{x2}-a_{y2}\,b_{x2})+2\,(a_{x1}\,a_{y2}-a_{y2}\,b_{x2}-a_$ $(a_{x2} b_{y1}) (a_{y2} c_{x1} - a_{x2} c_{y1}) (b_{x1} c_{y1} - b_{y1} c_{x1}) + 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{y2} c_{x1} - a_{x2} c_{y1})^3 - (a_{y2} c_{x1} - a_{y2} c_{y2})^3 - (a_{y2} c_{x2} - a_{y2} c_{y2})^3 - (a_{y2} c_{x2} - a_{y2} c_{y2})^3 - (a_{y2} c_{y2} - a$ $8\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)\left(b_{x1}\,b_{y2}-b_{x2}\,b_{y1}\right)^{3}-18\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x2}\right)\left(a_{x1}\,b_{y2}-a_{y1}\,b_{y1}\right)^{3}-18\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x2}\right)\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x2}\right)\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x2}\right)\left(a_{x1}\,b_{y2}-a_{y2}\,b_{y1}\right)^{3}-18\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x2}\right)\left(a_{x1}\,b_{y1}-a_{y1}\,b_{y2}\right)\left(a_{x1$ $\left(a_{x1}\,b_{x1}\right)^{2}\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)\left(a_{y2}\,b_{x1}-a_{x2}\,b_{y1}\right)^{2}\left(b_{x2}\,c_{y2}-b_{y2}\,c_{x2}\right)-36\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,c_{y1}-a_{y1}\,b_{x1}\right)$ $a_{y1} c_{x1} (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) - 36 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} b_{y1})^2 (a_{y1} c_{y1} - a_{y1} b_{y1})^2 (a_{y2} b_{y1} - a_{y1} b_{y1})^2 (a_{y1} c_{y2} - a_{y1} c_{y1})^2 (a_{y1} c_{y1} - a_{y1} b_{y1})^2 (a_{y1} c_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1})^2 (a_{y1} c_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1})^2 (a_{y1} c_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1}$ $a_{y1} c_{x1}$) $(a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{x2} c_{y2} - a_{y2} c_{x2}) (b_{x1} b_{y2} - b_{x2} b_{y1}) - 36 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} b_{x1}) (a_{y1} c_{y1} - a_{y1} b_{y1}) - 36 (a_{y1} b_{y1} - a_{y1} b_{y1}) - 36 (a_{y1} b_{y1} - a_{y1} b_{y1}) (a_{y1} c_{y1} - a_{y1} b_{y1}) - 36 (a_{y1} b_{y1} - a_{y1} b_{y1}) (a_{y1} c_{y1} - a_{y1} b_{y1}) - 36 (a_{y1} b_{y1} - a_{y1} b_{y1}) (a_{y1} c_{y1} - a_{y1} b_{y1}) - 36 (a_{y1} b_{y1} - a_{y1} b_{y1}) (a_{y1} c_{y1} - a_{y1} b_{y1}) (a_{y1} c_{y1} - a_{y1} b_{y1}) - 36 (a_{y1} b_{y1} - a_{y1} b_{y1}) (a_{y1} c_{y1} - a_{y1} b_{y1}) (a_{y1} c_{y1} - a_{y1} b_{y1}) - 36 (a_{y1} c_{y1} - a_{y1} b_{y1}) (a_$ $(a_{u1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) + 8 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x2} b_{y2} - a_{y1} b_{y1})^3 (a_{y2} b_{y2} - a_{y1} b_{y2})^3 (a_{y2} b_{y2} - a_{y1} b_{y1})^3 (a_{y2} b_{y2} - a_{y1} b_{y2})^3 (a_{y2} b_{y2} - a_{y1} b_{y2})^3 (a_{y2} b_{y2} - a_{y2} b_{y2} - a_{y2} b_{y2})^3 (a_{y2} b_{y2} - a_{y2} b_{y2} - a_{y2} b_{y2})^3 (a_{y2} b_{y2} - a_{y2} b_{y2} - a$ $a_{y2}\,b_{x2})\,(b_{x1}\,b_{y2}-b_{x2}\,b_{y1})\,(b_{y2}\,c_{x1}-b_{x2}\,c_{y1})+24\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})\,(a_{x1}\,b_{y2}-a_{y1}\,b_{x2})\,(a_{x1}\,c_{y2}-a_{y1}\,b_{y2})$ $(a_{y1} c_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1})^2 (b_{x1} c_{y1} - b_{y1} c_{x1}) - 16 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x2} b_{y2} - a_{y2} b_{x2}) (a_{x2} c_{y2} - a_{y2} b_{x2}) (a_$ $(a_{y2} c_{x2}) (b_{x1} c_{y1} - b_{y1} c_{x1}) + 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{y2} c_{x1} - a_{x2} c_{y1}) (a_{x2} d_{y2} - a_{y1} b_{x1})^3 (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{y2} c_{x1} - a_{x2} c_{y1}) (a_{y2} c_{x1} - a_{x2} c_{y1}) (a_{y2} c_{x1} - a_{x2} c_{y1}) (a_{y2} c_{x1} - a_{y2} c_{y1}) (a_{y2} c_{y1} - a_{y2} c_{y2}) (a_{y2} c_{y1} - a_{y2} c_{y2}) (a_{y2} c_{y2} - a_{y2} c_{y2}) (a_{$ $(a_{y2} d_{x2}) + 18 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{x2} d_{y2} - a_{y2} d_{x2}) (b_{x1} c_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{x2} d_{y2} - a_{y2} d_{x2}) (b_{x1} c_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{x2} d_{y2} - a_{y2} d_{x2}) (b_{x1} c_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{x2} d_{y2} - a_{y2} d_{x2}) (b_{x1} c_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{x2} d_{y2} - a_{y2} d_{x2}) (b_{x1} c_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{x2} d_{y2} - a_{y2} d_{x2}) (b_{x1} c_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{x2} d_{y2} - a_{y2} d_{x2}) (b_{x1} c_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{x2} d_{y2} - a_{y2} d_{x2}) (b_{x1} c_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{x2} d_{y2} - a_{y2} d_{x2}) (b_{x1} c_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{x2} d_{y2} - a_{y2} d_{x2}) (b_{x1} c_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{x2} d_{y2} - a_{y2} d_{x2}) (b_{x1} c_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{y2} b_{y1}) (a_{x2} d_{y2} - a_{y2} d_{x2}) (b_{x1} c_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{y2} b_{y1}) (a_{x2} d_{y2} - a_{y2} d_{x2}) (b_{x1} c_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{y2} b_{y1}) (a_{x2} d_{y2} - a_{y2} d_{x2}) (b_{x1} c_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{y2} b_{y1}) (a_{x2} d_{y2} - a_{y2} d_{x2}) (b_{x1} c_{y1} - a_{y2} b_{y1}) (a_{x2} d_{y2} - a_{y2} d_{x2}) (a_{x2} d$ $(b_{y1} c_{x1}) + 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{y2} c_{x1} - a_{x2} c_{y1}) (a_{y2} d_{x1} - a_{x2} d_{y1}) +$ $18\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{y2}\,b_{x1}-a_{x2}\,b_{y1}\right)\left(a_{y2}\,d_{x1}-a_{x2}\,d_{y1}\right)\left(b_{x1}\,c_{y1}-b_{y1}\,c_{x1}\right)+$ $12\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{3}\left(b_{x2}\,c_{y2}-b_{y2}\,c_{x2}\right)^{2}+24\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{3}$

 $(a_{y1} b_{x1})^3 (a_{x2} c_{y2} - a_{y2} c_{x2}) (b_{x2} d_{y2} - b_{y2} d_{x2}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x2} b_{y2} - a_{y2} c_{x2}) (a_{y2} c_{y2} - a_{y2} c_{y2}) ($ $a_{y2}\,b_{x2})\,(a_{x2}\,c_{y2}-a_{y2}\,c_{x2})+14\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})^3\,(a_{x1}\,c_{y2}-a_{y1}\,c_{x2})\,(a_{x2}\,c_{y2}-a_{y2}\,c_{x2})^2+\\$ $18\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{3}\left(a_{x2}\,d_{y2}-a_{y2}\,d_{x2}\right)^{2}-24\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{3}\left(a_{x1}\,d_{y1}-a_{y1}\,b_{x1}\right)^{3}$ $(a_{y1} d_{x1}) (a_{x2} b_{y2} - a_{y2} b_{x2}) (a_{x2} c_{y2} - a_{y2} c_{x2}) + 12 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{y2} d_{x1} - a_{y1} a_{y1}) (a_{x2} b_{y2} - a_{y2} b_{x2}) (a_{x2} c_{y2} - a_{y2} c_{x2}) + 12 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x2} b_{y2} - a_{y1} b_{x1})^3 (a_{y2} d_{x1} - a_{y2} a_{y2}) (a_{y2} d_{x2} - a_{y2} a_{y2}) (a_{y2} d_{x1} - a_{y2} a_{y2}) (a_{y2} d_{x2} - a_{y2} a_{y2}$ $a_{x2} d_{v1} (a_{x2} d_{v2} - a_{v2} d_{x2}) + 18 (a_{x1} a_{v2} - a_{x2} a_{v1}) (a_{x1} b_{v1} - a_{v1} b_{x1})^3 (a_{v2} d_{x1} - a_{x2} d_{v1})^2 - a_{v2} d_{v2} d_{v2} d_{v3} + 18 (a_{v1} a_{v2} - a_{v2} a_{v1}) (a_{v2} d_{v3} - a_{v1} b_{v3})^3 (a_{v2} d_{v3} - a_{v2} d_{v3})^2 - a_{v3} d_{v3} d_{v3}$ $24\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(a_{x2}\,c_{y2}-a_{y2}\,c_{x2}\right)\left(b_{x1}\,b_{y2}-b_{x2}\,b_{y1}\right) 12\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)^{2}\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(b_{x1}\,b_{y2}-b_{x2}\,b_{y1}\right)\left(c_{x2}\,d_{y2}-c_{y2}\,d_{x2}\right)+24\left(a_{x1}\,a_{y2}-a_{y2}\,a_{y2}\right)$ $(a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x2} b_{y2} - a_{y2} b_{x2}) (b_{x1} c_{y2} - b_{y1} c_{x2}) + 12 (a_{x1} a_{y2} - a_{y2} b_{x2}) (a_{x2} b_{y2} - a_{y2} b_{x2}) (a_{x$ $(a_{x2} a_{y1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - b_{y2} b_{y1}) (a_{x1} c_{y2} - b_{y1} c_{x2}) - 12 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - b_{y1} c_{x2}) - 12 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - b_{y1} c_{x2}) - 12 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - b_{y1} c_{x2}) - 12 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - b_{y1} c_{x2}) - 12 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - b_{y1} c_{x2}) - 12 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) - 12 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) - 12 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) - 12 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) - 12 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) - 12 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) - 12 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) - 12 (a_{x1} c_{y1} - a_{y1} c_{x2}) - 12 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) - 12 (a_{x1} c_{y1} - a_{y1} c_{x2}) - 12$ $(a_{y1} b_{x2})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) + 6 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} c_{x2}) + 6 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} c_{x2}) + 6 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} c_{x2}) + 6 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} c_{x2}) + 6 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} c_{x2}) + 6 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} c_{x2}) + 6 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} c_{x2}) + 6 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} c_{x2}) + 6 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} c_{x2}) + 6 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} c_{x2}) + 6 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} c_{x2}) + 6 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} c_{x2}) + 6 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} c_{x2}) + 6 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} c_{x2}) + 6 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} c_{x2}) + 6 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} c_{x2}) + 6 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} c_{x2}) + 6 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x1}) + 6 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x1}) + 6 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x1}) + 6 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x1}) + 6 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x1}) + 6 (a_{x1} b_{y1} - a_{y1} b_{x1}) +$ $(a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} b_{y2} - b_{x2} b_{y1}) - 18 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} b_{x2})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{x1} b_{y2} - b_{x2} b_{y1}) - 18 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{y2} b_{y1}) (a_{x1} b_{y2} - b_{x2} b_{y1}) - 18 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{y2} b_{y1}) (a_{y2} b_{x1} - a_{y2} b_{y1}) - 18 (a_{y2} b_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{y2} b_{y1}) (a_{y2} b_{y1} - a_{y1} b_{x2}) (a_{y2} b_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{y2} b_{y1}) (a_{y2} b_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{y1} - a_{y1} b_{y1})^2 (a_{y2} b_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1})^2 (a_{y2} b_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1})^2 (a_{y2} b_{y1} - a_{y1} b_{y1})^2 (a_{y2} b_{y1} - a_{y1} b_{y$ $(a_{y1} c_{x2})^2 (a_{x2} b_{y2} - a_{y2} b_{x2}) (b_{x1} b_{y2} - b_{x2} b_{y1}) - 36 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} b_{x2}) (a_{x2} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} b_{x2}) (a_{x2} b_{y2} - a_{y1} b_{x2}) (a_{x2} b_{y2} - a_{y2} b_{x2}) (a_{x$ $(a_{u1} c_{x2})^2 (a_{u2} b_{x1} - a_{x2} b_{u1}) (b_{x1} b_{u2} - b_{x2} b_{y1}) + 24 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x2} d_{y2} - a_{y1} b_{x2})^2 (a_{y2} b_{y1} - a_{y1} b_{y2})^2 (a_{y2} b_{y1} - a_{y1} b_{y2} - a_{y$ $(a_{u2} d_{x2}) (b_{x1} b_{y2} - b_{x2} b_{y1}) - 4 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^3 (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} d_{y2} - a_{y1} b_{x2})^3 (a_{y2} b_{y1} - a_{y1} b_{y2}) (a_{y1} b_{y2} - a_{y1} b_{y2})^3 (a_{y2} b_{y1} - a_{y1} b_{y2}) (a_{y1} b_{y2} - a_{y1} b_{y2})^3 (a_{y2} b_{y1} - a_{y1} b_{y2}) (a_{y1} b_{y2} - a_{y1} b_{y2})^3 (a_{y2} b_{y1} - a_{y1} b_{y2}) (a_{y1} b_{y2} - a_{y1} b_{y2})^3 (a_{y2} b_{y1} - a_{y1} b_{y2}) (a_{y1} b_{y2} - a_{y1} b_{y2})^3 (a_{y2} b_{y1} - a_{y1} b_{y2}) (a_{y1} b_{y2} - a_{y1} b_{y2})^3 (a_{y2} b_{y1} - a_{y1} b_{y2}) (a_{y1} b_{y2} - a_{y1} b_{y2}) (a_{y2} b_{y1} - a_{y1} b_{y2} - a_{y1} b_{y2}) (a_{y2} b_{y1} - a_{y1} b_{y2} - a_{y1} b_{y2}) (a_{y2} b_{y1} - a_{y1}$ $(b_{y1} d_{x2}) - 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{x2} b_{y2} - a_{y2} b_{x2}) (b_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x2} b_{y2} - a_{y2} b_{x2}) (a_{x1} b_{y2} - a_{y2} b_{x2}) (a_{x2} b_{y2} - a_{y2} b_{x2}) (a_{x$ $(b_{x2}\,b_{y1}) + 16\,(a_{x1}\,b_{y1} - a_{y1}\,b_{x1})^2\,(a_{x1}\,c_{y2} - a_{y1}\,c_{x2})^2\,(a_{y2}\,b_{x1} - a_{x2}\,b_{y1})\,(a_{x2}\,c_{y2} - a_{y2}\,c_{x2}) - a_{y2}\,c_{x2}$ $12\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(a_{y2}\,b_{x1}-a_{x2}\,b_{y1}\right)^{2} 72\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(a_{y2}\,b_{x1}-a_{x2}\,b_{y1}\right)\left(b_{x1}\,b_{y2}-a_{y1}\,d_{x2}\right)\left(a_{y2}\,b_{y1}-a_{y2}\,b_{y1}\right)\left(a_{y2}\,b_{y1}-a_{y1}\,b_{y1}\right)\left(a_{y2}\,b_{y1}-a_{y2}\,b_{y2}\right)\left(a_{y2}\,b_{y1}-a_{y2}\,b_{y1}\right)\left(a_{y2}\,b_{y1}-a_{y2}\,b_{y2}\right)\left(a_{y2}\,b_{y1}-a_{y2}\,b_{y2}\right)\left(a_{y2}\,b_{y2}-a_{y2}\,b_{y2}\right)\left(a_{y2}\,b_{y2}-a_{y2}\,b_{y2}\right)\left(a_{y2}\,b_{y2}-a_{y2}\,b_{y2}\right)\left(a_{y2}\,b_{y2}-a_{y2}\,b_{y2}\right)\left(a_{y2}\,b_{y2}-a_{y2}\,b_{y2}\right)\left(a_{y2}\,b_{y2}-a_{y2}\,b_{y2}\right)\left(a_{y2}\,b_{y2}-a_{y2}\,b_{y2}\right)\left(a_{y2}\,b_{y2}-a_{y2}\,b_{y2}\right)\left(a_{y2}\,b_{y2}-a_{y2}\,b_{y2}\right)\left(a_{y2}\,b_{y2}-a_{y2}\,b_{y$ $(b_{x2} b_{y1}) + 24 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{x2} d_{y2} - a_{y1} d_{x2}) (a_{y2} b_{y1} - a_{y1} b_{y1}) (a_{y2} d_{y2} - a_{y1} d_{y2}) (a_{y2} b_{y1} - a_{y1} d_{y2}) (a_{y2} d_{y2} - a_{y2} d_{y2}) (a_{y$ $a_{y2}\,d_{x2}) + 12\,(a_{x1}\,a_{y2} - a_{x2}\,a_{y1})\,(a_{x1}\,b_{y1} - a_{y1}\,b_{x1})^2\,(a_{x1}\,b_{y2} - a_{y1}\,b_{x2})\,(a_{x2}\,c_{y2} - a_{y2}\,c_{x2})\,(b_{x1}\,d_{y1} - a_{y1}\,b_{x2})^2\,(a_{y1}\,a_{y2} - a_{y1}\,b_{y2})^2\,(a_{y2}\,a_{y2} - a_{y2}\,a_{y2})^2\,(a_{y1}\,a_{y2} - a_{y2}\,a_{y2})^2\,(a_{y1}\,a_{y2} - a_{y2}\,a_{y2})^2\,(a_{y1}\,a_{y2} - a_{y2}\,a_{y2})^2\,(a_{y1}\,a_{y2} - a_{y2}\,a_{y2})^2\,(a_{y1}\,a_{y2} - a_{y2}\,a_{y2})^2\,(a_{y2}\,a_{y2} - a_{y2}\,$ $(b_{y1} d_{x1}) - 24 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x2} d_{y2} - a_{y2} d_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1}) +$ $12\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)^{2}\left(a_{y2}\,d_{x1}-a_{x2}\,d_{y1}\right)\left(b_{x1}\,b_{y2}-b_{x2}\,b_{y1}\right)+4\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x2}\right)^{2}\left(a_{y2}\,d_{x1}-a_{y2}\,d_{y1}\right)\left(a_{y1}\,b_{y2}-a_{y2}\,b_{y1}\right)+4\left(a_{y1}\,b_{y2}-a_{y1}\,b_{y2}\right)^{2}\left(a_{y2}\,d_{x1}-a_{y2}\,d_{y1}\right)\left(a_{y2}\,d_{y2}-a_{y2}\,b_{y1}\right)+4\left(a_{y1}\,b_{y2}-a_{y1}\,b_{y2}\right)^{2}\left(a_{y2}\,d_{y1}-a_{y2}\,d_{y1}\right)\left(a_{y2}\,d_{y1}-a_{y2}\,d_{y1}\right)$ $(a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^3 (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} d_{y1} - b_{y1} d_{x1}) + 12 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x2})^3 (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{x1} d_{y1} - b_{y1} d_{x1}) + 12 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x2})^3 (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{x1} d_{y1} - b_{y1} d_{x1}) + 12 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} a_{y2}) (a_{y2} b_{y1} - a_{y2} a_{y1}) (a_{y1} a_{y1} - a_{y2} a_{y1}) (a_{y2} a_{y1} - a_{y2} a_{y1}) (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y2} a_{y1} - a_{y2} a_{y2}) (a_{y2} a_{y1} - a_{y2} a_{y1}) (a_{y2} a_{y1} - a_{y2} a_{y2}) (a_{y2} a_{y1} - a_{y2} a_{y2}) (a_{y2} a_{y1} - a_{y2} a_{y2}) (a_{y2} a_{y2} - a_{y2}$ $(a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{y2} d_{x1} - b_{x2} d_{y1}) + 12 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y2} a_{y1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{y1} b_{y2} - a_{y1} b_{y2}) ($ $(a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} d_{y1} - b_{y1} d_{x1}) + 36 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1}$ $(a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{y2} d_{x1} - a_{x2} d_{y1}) + 36 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y2} a_{y1})^2 (a_{x1} b_{y1} - a_{y2} a_{y1})^2 (a_{y2} b_{x1} - a_{y2} a_{y1})^2 (a_{y2} b_{y1} - a_{y2} a_{y2} a_{y1})^2 (a_{y2} b_{y1} - a_{y2} a_{y1} a_{y2} a_{y2} a_{y1})^2 (a_{y2} b_{y1} - a_{y2} a_{$ $(a_{y1} b_{x1})^2 (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{y2} d_{x1} - b_{x2} d_{y1}) + 72 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y2} a_{y1}) (a_{y1} b_{y1} - a_{y1} b_{y1}) (a_{y2} b_{y2} - a_{y2} a_{y1}) (a_{y1} b_{y1} - a_{y1} b_{y1}) (a_{y2} b_{y2} - a_{y2} a_{y1}) (a_{y1} b_{y1} - a_{y1} b_{y1}) (a_{y1} b_{y2} - a_{y2} a_{y1}) (a_{y1} b_{y1} - a_{y1} b_{y1}) (a_{y1} b_{y2} - a_{y1} a_{y1}) (a_{y1} b_{y2} - a_{y1} a_{y1}) (a_{y1} b_{y1} - a_{y1} a_{y1}) (a_{y1} a_{y1} - a_{y1} a_{y1}) (a_{y$ $a_{u1}b_{x2}$) $(a_{x1}c_{u2}-a_{u1}c_{x2})(a_{u2}b_{x1}-a_{x2}b_{u1})(b_{x1}d_{u1}-b_{u1}d_{x1})+28(a_{x1}a_{u2}-a_{x2}a_{u1})^3(a_{x1}b_{u1}-b_{u1}d_{x2})$ $a_{y1}\,b_{x1})\,(b_{x1}\,d_{y1}-b_{y1}\,d_{x1})\,(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}) + 24\,(a_{x1}\,a_{y2}-a_{x2}\,a_{y1})\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})^2\,(a_{x1}\,d_{y2}-a_{y2}\,a_{y2})^2\,(a_{x1}\,d_{y2}-a_{y2}\,a_{y2})^2\,(a_{x1}\,d_{y2}-a_{y2}\,a_{y2})^2\,(a_{x1}\,d_{y2}-a_{y2}\,a_{y2})^2\,(a_{x1}\,d_{y2}-a_{y2}\,a_{y2})^2\,(a_{x1}\,d_{y2}-a_{y2}\,a_{y2})^2\,(a_{x1}\,d_{y2}-a_{y2}\,a_{y2})^2\,(a_{x1}\,d_{y2}-a_{y2}\,a_{y2})^2\,(a_{x1}\,d_{y2}-a_{y2}\,a_{y2})^2\,(a_{x1}\,d_{y2}-a_{y2}\,a_{y2})^2\,(a_{x1}\,d_{y2}-a_{y2}\,a_{y2})^2\,(a_{x1}\,d_{y2}-a_{y2}\,a_{y2})^2\,(a_{x1}\,d_{y2}$ $(a_{u1} d_{x2}) (a_{u2} b_{x1} - a_{x2} b_{y1}) (a_{y2} d_{x1} - a_{x2} d_{y1}) - 24 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} d_{y1} - a_{y1} d_{y1})^2 - 24 (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y2} d_{y1} - a_{y1} d_{y1})^2 - 24 (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y2} d_{y1} - a_{y1} d_{y1})^2 - 24 (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y2} d_{y1} - a_{y1} d_{y1})^2 - 24 (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y2} d_{y1} - a_{y1} d_{y1})^2 - 24 (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y2} d_{y1} - a_{y1} d_{y1})^2 - 24 (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y2} d_{y1} - a_{y1} d_{y1})^2 - 24 (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y2} d_{y1} - a_{y1} d_{y1})^2 - 24 (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y1} a_{y1} - a_{y1} d_{y1})^2 - 24 (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y2} a_{y1} - a_{y1} a_{y1})^2 - 24 (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y2} a_{y1} - a_{y1} a_{y1})^2 - 24 (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y2} a_{y1} - a_{y1} a_{y1})^2 - 24 (a_{y1} a_{y1} - a_{y1} a_{y1} - a_{y1} a_{y1})^2 - 24 (a_{y1} a_{y1} - a_{y1} a_{y1} - a_{y1} a_{y1})^2 - 24 (a_{y1} a_{y1} - a_{y1} a_{y1} - a_{y1} a_{y1})^2 - 24 (a_{y1} a_{y1} - a_{y1} a_{y1} - a_{y1} a_{y1})^2 - 24 (a_{y1} a_{y1} - a_{y1} a_{y1} - a_{y1} a_{y1} - a_{y1} a_{y1})^2 - 24 (a_{y1} a_{y1} - a_{y1} a_{y1}$ $a_{y1}\,d_{x1})\,(a_{y2}\,b_{x1}-a_{x2}\,b_{y1})\,(a_{y2}\,d_{x1}-a_{x2}\,d_{y1}) + 30\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})^2\,(a_{x1}\,b_{y2}-a_{y1}\,b_{x2})\,(a_{x1}\,c_{y$ $(a_{u1} c_{x2}) (a_{u2} c_{x1} - a_{x2} c_{u1})^2 - 60 (a_{x1} a_{u2} - a_{x2} a_{u1}) (a_{x1} b_{u1} - a_{u1} b_{x1})^2 (a_{x1} b_{u2} - a_{u1} b_{x2}) (a_{u2} c_{x1} - a_{u2} a_{u1}) (a_{u2} c_{u2} a_{u2} a_{u1}) (a_{u2} c_{u2} a_{u2} a$ $(a_{x2} c_{y1}) (c_{x1} c_{y2} - c_{x2} c_{y1}) + 18 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{y2} c_{x1} - b_{x2} c_{y1}) (c_{x1} c_{y2} - a_{y2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{y2} c_{x1} - b_{x2} c_{y1}) (c_{x1} c_{y2} - a_{y2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{y2} c_{x1} - b_{x2} c_{y1}) (c_{x1} c_{y2} - a_{y2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{y2} c_{x1} - b_{y2} c_{y1}) (a_{x1} c_{y2} - a_{y2} a_{y1})^2 (a_{y1} c_{y1} - a_{y1} b_{x1})^2 (a_{y2} c_{y1} - a_{y2} a_{y1})^2 (a_{y2} c_{y2} - a_{y2} a_{y2})^2 (a_{y2} c_{y2} - a_{y2} a_{y2} a_{y2})^2 (a_{y2} c_{y2} - a_{y2} a_{y2}$ $(a_{x2} c_{y1}) + 4 (a_{x1} b_{y2} - a_{y1} b_{x2})^3 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} c_{y1} - b_{y1} c_{x1}) + 18 (a_{x1} b_{y1} - a_{y1} c_{x1}) + 18 (a$ $(a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{y2} c_{x1} - b_{x2} c_{y1}) - 6 (a_{x1} a_{y2} - a_{y1} b_{x2})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{y2} c_{x1} - b_{x2} c_{y1}) - 6 (a_{x1} a_{y2} - a_{y1} b_{x2})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{y2} c_{x1} - b_{x2} c_{y1}) - 6 (a_{x1} a_{y2} - a_{y1} b_{x2})^2 (a_{y1} c_{y1} - a_{y1} c_{y1}) (a_{y2} c_{y1} - a_{y2} c_{y1}) - 6 (a_{y1} c_{y1} - a_{y1} c_{y1}) (a_{y2} c_{y1} - a_{y2} c_{y1}) - 6 (a_{y1} c_{y1} - a_{y2} c_{y1}) - 6 (a_{y1} c_{y1} - a_{y1} c_{y1}) (a_{y2} c_{y1} - a_{y2} c_{y1}) - 6 (a_{y1} c_{y1} - a_{y2} c_{y1}) - 6 (a_{y1} c_{y1} - a_{y1} c_{y1}) (a_{y2} c_{y1} - a_{y2} c_{y1}) - 6 (a_{y1} c_{y1} - a_{y1} c_{y1}) - 6 (a_{y1} c_{y1} - a_{y1}$ $(a_{x1} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{y2} c_{x1} - a_{y1} c_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y$ $b_{x2}\,c_{y1}) + 24\left(a_{x1}\,a_{y2} - a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1} - a_{y1}\,b_{x1}\right)\left(a_{x1}\,c_{y1} - a_{y1}\,c_{x1}\right)\left(a_{x1}\,c_{y2} - a_{y1}\,c_{x2}\right)\left(a_{y2}\,c_{x1} - a_{y1}\,c_{x2}\right)\left(a_{y2}\,c_{y1} - a_{y1}\,c_{y1}\right)\left(a_{y2}\,c_{y1} - a_{y1}\,c_{y1}\right)\left(a_{y2}\,c_{y1} - a_{y1}\,c_{y1}\right)\left(a_{y1}\,c_{y1} - a_{y1}\,c_{y1}\right)\left(a_{y2}\,c_{y1} - a_{y1}\,c_{y1}\right)\left(a_{y1}\,c_{y1} - a_{y1}\,c_{y1}\right)\left(a_{y1}\,c_{$ $(a_{x2} c_{y1}) (b_{x1} b_{y2} - b_{x2} b_{y1}) + 4 (a_{x1} a_{y2} - a_{x2} a_{y1})^3 (a_{x1} c_{y1} - a_{y1} c_{x1}) (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{x1} d_{y2} - a_{y2} a_{y1})^3 (a_{y1} c_{y1} - a_{y1} c_{y1}) (a_{$ $(b_{y1} d_{x2}) - 6 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{y2} c_{x1} - a_{x2} c_{y1}) (b_{x1} d_{y2} - a_{y1} c_{x1}) (a_{y2} c_{x1} - a_{x2} c_{y1}) (a_{y1} d_{y2} - a_{y1} d_{y1}) (a_{y2} c_{x1} - a_{y1} c_{x1}) (a_{y2$ $b_{y1} d_{x2}$) + 18 $(a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} b_{x1} - a_{y1} c_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} b_{x1} - a_{y1} c_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} b_{x1} - a_{y1} c_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} d_{x1} - a_{y1} d_{x2}) (a_{y2} d_{x2} - a_{y1} d_{x2}) (a_{y2} d_{x2} - a_{y2} d_{x2}) (a_{y2$ $(a_{x2} b_{y1}) (a_{y2} c_{x1} - a_{x2} c_{y1}) - 4 (a_{x1} a_{y2} - a_{x2} a_{y1})^3 (a_{x1} c_{y1} - a_{y1} c_{x1}) (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{x1} d_{y1} - a_{y1} c_{x1}) (a_{y1} c_{y1} - a_{y1} c_{y1}) (a_{y1} c_{y1} - a_{y1} c_{y1}) (a_{y2} c_{x1} - a_{y1} c_{y1}) (a_{y1} c_{y1} - a_{y1} c_{y1}) (a_{y2} c_{x1} - a_{y1} c_{y1}) (a_{y1} c_{y1} - a_{y1} c_{y1}) (a_{y1$

 $(b_{y1} d_{x1}) + 6 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{y2} c_{x1} - a_{x2} c_{y1}) (b_{x1} d_{y1} - a_{y1} c_{x1}) (a_{y2} c_{x1} - a_{x2} c_{y1}) (a_{x1} d_{y1} - a_{y1} c_{x1}) (a_{y2} c_{x1} - a_{x2} c_{y1}) (a_{y1} d_{y1} - a_{y1} c_{x1}) (a_{y2} c_{x1} - a_{x2} c_{y1}) (a_{y1} d_{y1} - a_{y1} c_{x1}) (a_{y2} c_{x1} - a_{x2} c_{y1}) (a_{y1} d_{y1} - a_{y1} c_{x1}) (a_{y2} c_{x1} - a_{y2} c_{y1}) (a_{y1} d_{y1} - a_{y1} c_{x1}) (a_{y2} c_{x1} - a_{x2} c_{y1}) (a_{y1} d_{y1} - a_{y1} c_{x1}) (a_{y2} c_{x1} - a_{x2} c_{y1}) (a_{y1} d_{y1} - a_{y1} c_{x1}) (a_{y2} c_{x1} - a_{x2} c_{y1}) (a_{y2} c_{x1} - a_{y2} c_{y1}) (a_{y2} c_{x2} - a_{y2} c_{y1}) (a_{y2} c_{x2} - a_{y2} c_{y2}) (a_{y2} c_{y2} - a_{y2} c_{y2}) (a_{y2$ $b_{u1} d_{x1}$) -18 $(a_{x1} a_{u2} - a_{x2} a_{u1}) (a_{x1} b_{u1} - a_{u1} b_{x1}) (a_{x1} c_{u1} - a_{u1} c_{x1}) (a_{x1} d_{u1} - a_{u1} d_{x1}) (a_{u2} b_{x1} - a_{u1} c_{x1}) (a_{x1} c_{u1} - a_{u1} c_{x1}) (a_{x1}$ $(a_{x2} b_{y1}) (a_{y2} c_{x1} - a_{x2} c_{y1}) + 6 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x2} b_{y2} - a_{y1} c_{x2}) (a_{x2$ $(a_{y2} b_{x2}) + 18 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{y2} c_{x1} - a_{y1} c_{x2}) (a_{y$ $(a_{x2} c_{y1}) - 24 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^3 (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} c_{y1} - b_{y1} c_{x1}) - b_{y1} c_{y1} - b_{y1} c_{y1} - b_{y1} c_{y1} - b_{y1} c_{y1}) - b_{y1} c_{y1} - b_{y1} c_{y1}) - b_{y1} c_{y1} - b$ $32\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)^{3}\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)-24\left(a_{x1}\,a_{y2}-a_{y1}\,b_{y2}\right)^{3}$ $(a_{x1} \, a_{y1})^2 \, (a_{x1} \, b_{y2} - a_{y1} \, b_{x2}) \, (a_{x1} \, c_{y1} - a_{y1} \, c_{x1}) \, (a_{x1} \, c_{y2} - a_{y1} \, c_{x2}) \, (b_{x1} \, d_{y2} - b_{y1} \, d_{x2}) + 24 \, (a_{x1} \, a_{y2} - a_{y1} \, c_{x2}) \, (a_{x1} \, a_{y2} - a_{y1} \, a_{x2}) + 24 \, (a_{x1} \, a_{y2} - a_{y1} \, a_{x2}) + 24 \, (a_{x1} \, a_{y2} - a_{y1} \, a_{x2}) + 24 \, (a_{x1} \, a_{y2} - a_{y1} \, a_{x2}) + 24 \, (a_{x1} \, a_{y2} - a_{y1} \, a_{x2}) + 24 \, (a_{x1} \, a_{y2} - a_{y1} \, a_{x2}) + 24 \, (a_{x1} \, a_{y2} - a_{y1} \, a_{x2}) + 24 \, (a_{x1} \, a_{y2} - a_{y1} \, a_{x2}) + 24 \, (a_{x1} \, a_{y2} - a_{y1} \, a_{x2}) + 24 \, (a_{x1} \, a_{y2} - a_{y1} \, a_{x2}) + 24 \, (a_{x1} \, a_{y2} - a_{y1} \, a_{x2}) + 24 \, (a_{x1} \, a_{y2} - a_{y1} \, a_{x2}) + 24 \, (a_{x1} \, a_{y2} - a_{y1} \, a_{x2}) + 24 \, (a_{x1} \, a_{y2} - a_{y1} \, a_{x2}) + 24 \, (a_{x1} \, a_{y2} - a_{y1} \, a_{x2}) + 24 \, (a_{x1} \, a_{y2} - a_{y1} \, a_{x2}) + 24 \, (a_{x1} \, a_{y2} - a_{y1} \, a_{x2}) + 24 \, (a_{x1} \, a_{y2} - a_{y1} \, a_{x2}) + 24 \, (a_{x1} \, a_{y2} - a_{y1} \, a_{y2}) + 24 \, (a_{x1} \, a_{y2} - a_$ $(a_{x2} a_{y1})^3 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} d_{y2} - b_{y1} d_{x2}) - 24 (a_{x1} a_{y2} - a_{x2} a_{y1})^3 (a_{x1} b_{y1} - a_{y1} a_{y2}) - 24 (a_{y1} a_{y2} - a_{y1} a_{y1})^3 (a_{y1} a_{y2} - a_{y1} a_{y2}) - 24 (a_{y1} a_{y2} - a_{y1} a_{y1})^3 (a_{y1} a_{y2} - a_{y1} a_{y2}) - 24 (a_{y1} a_{y2} - a_{y1} a_{y1})^3 (a_{y1} a_{y1} - a_{y1} a_{y1} a_{y1})^3 (a_{y1} a_{y1} - a_{y1} a_{y1} a_{y1})^3 (a_{y1} a_{y1} - a_{y1} a_{y1} a_{y1} a_{y1} a_{y1})^3 (a_{y1} a_{y1} - a_{y1} a_{y1$ $(a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (c_{x1} d_{y2} - c_{y1} d_{x2}) - 72 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y2} a_{y1})^2$ $(a_{y1} b_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (c_{x1} c_{y2} - c_{x2} c_{y1}) + 72 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} b_{x1}) (a_{x$ $a_{y1}\,c_{x1})\,(a_{x1}\,d_{y2}-a_{y1}\,d_{x2})\,(b_{x2}\,c_{y2}-b_{y2}\,c_{x2})+144\,(a_{x1}\,a_{y2}-a_{x2}\,a_{y1})^2\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})\,(a_{x1}\,c_{y2}-a_{y2}\,a_{y1})^2$ $(a_{x1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{y2} c_{x1} - b_{x2} c_{y1}) - 72 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{y1} c_{y2} - a_{y1} c_{y1}) - 72 (a_{y1} a_{y2} - a_{y2} a_{y1})^2 (a_{y1} c_{y1} - a_{y1} c_{y1}) (a_{y1} c_{y2} - a_{y1} c_{y1}) - 72 (a_{y1} a_{y2} - a_{y1} a_{y2}) (a_{y1} c_{y1} - a_{y1} c_{y1}) (a_{y1} c_{y2} - a_{y1} c_{y1}) - 72 (a_{y1} a_{y2} - a_{y1} a_{y1})^2 (a_{y1} c_{y1} - a_{y1} c_{y1}) (a_{y1} c_{y2} - a_{y1} a_{y1}) (a_{y1} c_{y1} - a_{y1} c_{y1}) (a_{y1} c_{y1} - a$ $(a_{u1} c_{x2}) (a_{x1} d_{u1} - a_{u1} d_{x1}) (b_{x1} b_{u2} - b_{x2} b_{u1}) - 24 (a_{x1} b_{u1} - a_{u1} b_{x1}) (a_{x1} b_{u2} - a_{u1} b_{x2})^2 (a_{x1} c_{u2} - a_{u2} b_{x2})^2 (a_{x1} c_{u2} - a_{u2} b_{u2} - a_{u2} b_{u2})^2 (a_{x1} c_{u2} - a_{u2} b_{u2} - a_{u2} b_{u2})^2 (a_{x1} c_{u2} - a_{u2} b_{u2} - a_{u2}$ $(a_{u1} c_{x2})^2 (a_{u2} c_{x1} - a_{x2} c_{u1}) + 60 (a_{x1} b_{u2} - a_{u1} b_{x2})^2 (a_{x1} c_{u1} - a_{u1} c_{x1}) (a_{x1} c_{u2} - a_{u1} c_{x2})^2 (a_{u2} b_{x1} - a_{u2} c_{x1}) + 60 (a_{x1} b_{u2} - a_{u1} b_{x2})^2 (a_{x1} c_{u1} - a_{u1} c_{x1}) (a_{x1} c_{u2} - a_{u1} c_{x2})^2 (a_{u2} b_{x1} - a_{u2} c_{x1}) + 60 (a_{x1} b_{u2} - a_{u1} b_{x2})^2 (a_{x1} c_{u1} - a_{u1} c_{x1}) (a_{x1} c_{u2} - a_{u1} c_{x2})^2 (a_{u2} b_{x1} - a_{u2} c_{x1}) + 60 (a_{x1} b_{u2} - a_{u1} b_{x2})^2 (a_{x1} c_{u1} - a_{u1} c_{x1}) (a_{x1} c_{u2} - a_{u1} c_{x2})^2 (a_{u2} b_{x1} - a_{u2} c_{x1}) + 60 (a_{x1} b_{u2} - a_{u1} b_{x2})^2 (a_{x1} c_{u1} - a_{u1} c_{x1}) (a_{x1} c_{u2} - a_{u1} c_{x2})^2 (a_{u2} b_{x1} - a_{u2} c_{x1}) + 60 (a_{x1} b_{u2} - a_{u1} b_{x2})^2 (a_{x1} c_{u1} - a_{u1} c_{x1}) (a_{x1} c_{u2} - a_{u1} c_{x2})^2 (a_{u2} b_{x1} - a_{u2} c_{x1}) + 60 (a_{x1} b_{u2} - a_{u1} b_{x2})^2 (a_{x1} c_{u1} - a_{u1} c_{x1}) (a_{x1} c_{u2} - a_{u1} c_{x2})^2 (a_{u2} b_{x1} - a_{u2} c_{x1}) + 60 (a_{x1} b_{u2} - a_{u1} b_{x2})^2 (a_{x1} c_{u1} - a_{u1} c_{x1}) (a_{x1} c_{u2} - a_{u1} c_{x2})^2 (a_{u2} b_{x1} - a_{u2} c_{x1}) + 60 (a_{x1} b_{u2} - a_{u1} b_{x2})^2 (a_{x1} c_{u1} - a_{u1} c_{x2}) (a_{x1} c_{u2} - a_{u1} c_{x2})^2 (a_{x2} c_{x1} - a_{u2} c_{x2}) + 60 (a_{x1} b_{x2} - a_{x2} c_{x2}) (a_{x1} c_{x2} - a_{x2} c_{x2}) + 60 (a_{x1} c_{x2} - a_{x2} c_{x2}) (a_{x2} c_{x2} - a_{x2} c_{x2}) (a_{x2} c_{x2} - a_{x2} c_{x2}) (a_{x2} c_{x2} - a_{x2} c_{x2}) + 60 (a_{x2} c_{x2} - a_{x2} c_{x2}) (a_{x2} c_$ $(a_{x2} b_{y1}) + 72 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x2} b_{y2} - a_{y1} c_{x2})^2$ $(a_{y2} b_{x2}) - 72 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x2} c_{y2} - a_{y1} c_{x2}) (a_{x$ $(a_{y2} c_{x2}) + 96 (a_{x1} b_{y2} - a_{y1} b_{x2})^3 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1}) +$ $72\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)^{2}\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(a_{x2}\,b_{y2}-a_{y2}\,b_{x2}\right)+$ $144\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(a_{y2}\,b_{x1}-a_{y1}\,c_{x2}\right)$ $(a_{x2} b_{y1}) + 36 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) - (a_{y1} a_{y2} - a_{y1} a_{y2})^2 (a_{y2} a_{y1} - a_{y2} a_{y1})^2 - (a_{y1} a_{y2} - a_{y1} a_{y2} - a_{y1} a_{y2})^2 - (a_{y1} a_{y2} - a_{y1} a_{y2} - a_{y1} a_{y2})^2 - (a_{y1} a_{y1} - a_{y1} a_{y1} a_{y2} - a_{y1} a_{y2})^2 - (a_{y1} a_{y2} a_{y1} a_{y2} - a_{y1} a_{y2} a_{y1})^2 - (a_{y1} a_{y1} a_{y2} - a_{y1} a_{y2} a_{y2} a_{y1} a_{y2} a_{y1} a_{y2} a_{y2} a_{y2} a_{y1} a_{y2} a_{y2} a_{y2} a_{y1} a_{y2} a_{y2}$ $24\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)^{3}\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)\left(a_{y2}\,c_{x1}-a_{x2}\,c_{y1}\right)+36\left(a_{x1}\,a_{y2}-a_{y1}\,b_{x2}\right)^{3}$ $(a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) - 24 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y2} - a_{y1} a_{y1}) (a_{x1} a_{y2} - a_{y1} a_{y1}) (a_{y1} a_{y1} a_{y1} - a_{y1} a_{y1})$ $(a_{x1} b_{x2})^3 (a_{x1} c_{y1} - a_{y1} c_{x1}) (b_{x1} d_{y1} - b_{y1} d_{x1}) - 72 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} b_{y2} - a_{y2} b_{x2}) (a_{x2} b_{x2} - a_{y2} b_{x2}) (a_{x2} b_{x2} - a_{y2} b_{x2}) (a_{x$ $(a_{y1} b_{x2})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (b_{y2} d_{x1} - b_{x2} d_{y1}) - 144 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{y2}) - 144 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{y2}) - 144 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) - 144 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y1} - a_{y1} b_{x1}) (a_{x1} a_{y2} - a_{y1} a_{y1} a_{y1}) - 144 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{y1}) (a_{x1} a_{y2} - a_{y1} a_{y1} a_{y1}) - 144 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{y1}) (a_{x1} a_{y2} - a_{y1} a_{y1} a_{y1}) - 144 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{y1}) (a_{x1} a_{y2} - a_{y1} a_{y1} a_{y1}) - 144 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{y1}) (a_{x1} a_{y2} - a_{y1} a_{y1} a_{y1}) - 144 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{y1}) - 144 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{y1}) - 144 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{y1}) - 144 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{y1}) - 144 (a_{x1} a_{y2} - a_{y1} a_{y1} a_{y1} - a_{y1} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{y1} a_{y1}) - 144 (a_{x1} a_{y2} - a_{y1} a_{y1} a_{y1} a_{y1} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{y1$ $(a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{y2} d_{x1} - a_{x2} d_{y1}) - 72 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} c_{x2}) (a_{y2} d_{x1} - a_{y2} d_{y1}) - 72 (a_{y1} a_{y2} - a_{y2} a_{y1})^2 (a_{y1} a_{y2} - a_{y2} a_{y1})^2 (a_{y1} a_{y2} - a_{y2} a_{y1})^2 (a_{y2} a_{y1} - a_{y2} a_{y1} a_{y1})^2 (a_{y2} a_{y1} - a_{y2} a_{y1} a_{y1} - a_{y2} a_{y1} a_{y2})^2 (a_{y2} a_{y1} - a_{y2} a_{y1} a_{y1} - a_{y2} a_{y1} a_{y2})^2 (a_{y2} a_{y1} - a_{y2} a_{y1} a_{y2} - a_{y2} a_{y1} a_{y2} a_{y1} a_{y2} a_{y2} a_{y1} a_{y2} a_{y2} a_{y2} a_{y1} a_{y2} a$ $(a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (c_{x1} d_{y1} - c_{y1} d_{x1}) - 48 (a_{x1} a_{y2} - a_{x2} a_{y1})^3 (a_{x1} c_{y1} - a_{y1} a_{x2}) (a_{y1} c_{y1} a_{y2} - a_{y1} a_{y2} - a_{y2} a_{y1})^3 (a_{y1} c_{y2} - a_{y1} a_{y2} - a_{y1} a_{y2} - a_{y2} a_{y1})^3 (a_{y1} c_{y2} - a_{y1} a_{y2} - a_{y2} a_{y1} a_{y2} - a_{y2} a_{y2} a_{y2} - a_{y2} a$ $a_{y1} c_{x1} (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1}) - 72 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} b_{x1}) (a_{x1}$ $(a_{u1} c_{x1}) (a_{x1} d_{u2} - a_{u1} d_{x2}) (a_{u2} d_{x1} - a_{x2} d_{u1}) - 48 (a_{x1} a_{u2} - a_{x2} a_{u1})^3 (a_{x1} b_{u1} - a_{u1} b_{x1}) (a_{x1} d_{u2} - a_{u2} a_{u1})^3$ $a_{y1}\,d_{x2})\,(c_{x1}\,d_{y1}-c_{y1}\,d_{x1})+24\,(a_{x1}\,a_{y2}-a_{x2}\,a_{y1})^3\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})\,(a_{x1}\,d_{y1}-a_{y1}\,d_{x1})\,(b_{x1}\,d_{y1}-a_{y1}\,d_{x2})$

 $c_{10} = 60 \left(a_{x1} \, a_{y2} - a_{x2} \, a_{y1}\right)^3 \left(a_{x1} \, c_{y2} - a_{y1} \, c_{x2}\right) \left(a_{x1} \, d_{y1} - a_{y1} \, d_{x1}\right)^2 + 90 \left(a_{x1} \, a_{y2} - a_{x2} \, a_{y1}\right)^2 \left(a_{x1} \, b_{y2} - a_{y1} \, b_{x2}\right)^2 \left(a_{x1} \, d_{y1} - a_{y1} \, d_{x1}\right)^2 + 4 \left(a_{x1} \, b_{y1} - a_{y1} \, b_{x1}\right)^2 \left(a_{y2} \, b_{x1} - a_{x2} \, b_{y1}\right)^3 \left(b_{x1} \, c_{y2} - b_{y1} \, c_{x2}\right) - 6 \left(a_{x1} \, b_{y2} - a_{y1} \, b_{x2}\right)^5 \left(a_{x1} \, d_{y1} - a_{y1} \, d_{x1}\right) + 6 \left(a_{x1} \, b_{y2} - a_{y1} \, b_{x2}\right)^5 \left(a_{x1} \, d_{y2} - a_{y1} \, d_{x2}\right) + 6 \left(a_{x1} \, b_{y1} - a_{y1} \, d_{x2}\right)^2 + 6 \left(a_{x1} \, b_{y2} - a_{y1} \, b_{x2}\right)^2 \left(a_{x1} \, c_{y2} - a_{y1} \, c_{x2}\right)^4 + 15 \left(a_{x1} \, b_{y2} - a_{y1} \, b_{x2}\right)^4 \left(a_{x1} \, c_{y2} - a_{y1} \, c_{x2}\right)^2 + 60 \left(a_{x1} \, a_{y2} - a_{x2} \, a_{y1}\right)^3 \left(a_{x1} \, c_{y2} - a_{y1} \, c_{x2}\right) \left(a_{x1} \, d_{y2} - a_{y1} \, d_{x2}\right)^2 + 60 \left(a_{x1} \, a_{y2} - a_{x2} \, a_{y1}\right)^3 \left(a_{x1} \, c_{y2} - a_{y1} \, c_{x2}\right) \left(a_{x1} \, d_{y2} - a_{y1} \, d_{x2}\right)^2 + 60 \left(a_{x1} \, a_{y2} - a_{x2} \, a_{y1}\right) \left(a_{x1} \, b_{y2} - a_{y1} \, b_{x2}\right)^2 \left(a_{x1} \, c_{y2} - a_{y1} \, c_{x2}\right)^3 + 90 \left(a_{x1} \, a_{y2} - a_{x2} \, a_{y1}\right)^2 \left(a_{x1} \, b_{y2} - a_{y1} \, d_{x2}\right)^2 - 120 \left(a_{x1} \, a_{y2} - a_{x2} \, a_{y1}\right)^3 \left(a_{x1} \, c_{y2} - a_{y1} \, c_{x2}\right) \left(a_{x1} \, d_{y1} - a_{y1} \, d_{x1}\right) \left(a_{x1} \, d_{y2} - a_{y1} \, d_{x2}\right)^2 - 120 \left(a_{x1} \, a_{y2} - a_{x2} \, a_{y1}\right)^3 \left(a_{x1} \, c_{y2} - a_{y1} \, c_{x2}\right) \left(a_{x1} \, d_{y1} - a_{y1} \, d_{x1}\right) + 120 \left(a_{x1} \, a_{y2} - a_{x2} \, a_{y1}\right) \left(a_{x1} \, b_{y2} - a_{y1} \, b_{x2}\right)^3 \left(a_{x1} \, c_{y2} - a_{y1} \, c_{x2}\right) \left(a_{x1} \, d_{y1} - a_{y1} \, d_{x1}\right) + 120 \left(a_{x1} \, a_{y2} - a_{y2} \, a_{y1}\right) \left(a_{x1} \, b_{y2} - a_{y1} \, b_{x2}\right)^3 \left(a_{x1} \, c_{y2} - a_{y1} \, c_{x2}\right) \left(a_{x1} \, d_{y2} - a_{y1} \, d_{x2}\right) - 180 \left(a_{x1} \, a_{y2} - a_{x2} \, a_{y1}\right)^2 \left(a_{x1} \, b_{y2} - a_{y1} \, d_{x2}\right) - 180 \left(a_{x1} \, a_{y2} - a_{x2} \, a_{y1}\right)^2 \left(a_{x1} \, b_{y2} - a_{y1} \, d_{x2}\right) - 180 \left(a_{x1} \, a_{y2} - a_{x2} \, a_{y1}\right)^2 \left(a_{x1} \, b_{y2}$

 $(a_{x1} b_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x1}) + 180 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} b_{x2}) (a$ $(a_{x1} c_{x2})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) + 3 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{x2} b_{y2} - a_{y2} b_{x2})^2 +$ $24\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)^{3}\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(c_{x1}\,c_{y2}-c_{x2}\,c_{y1}\right)+24\left(a_{x1}\,a_{y2}-a_{y1}\,d_{x2}\right)\left(a_{x1}\,a_{y2}-a_{y1}\,d_{x2}\right)\left(a_{x1}\,a_{y2}-a_{y2}\,a_{y1}\right)+24\left(a_{x1}\,a_{y2}-a_{y1}\,d_{x2}\right)\left(a_{x1}\,a_{y2}-a_{y1}\,d_{x2}\right)\left(a_{x1}\,a_{y2}-a_{y2}\,a_{y1}\right)+24\left(a_{x1}\,a_{y2}-a_{y1}\,d_{x2}\right)\left(a_{x1}\,a_{y2}-a_{y1}\,d_{x2}\right)\left(a_{x1}\,a_{y2}-a_{y2}\,a_{y1}\right)+24\left(a_{x1}\,a_{y2}-a_{y1}\,a_{y2}\right)\left(a_{x1}\,a_{y2}-a_{y1}\,a_{y2}\right)\left(a_{x1}\,a_{y2}-a_{y2}\,a_{y1}\right)+24\left(a_{x1}\,a_{y2}-a_{y2}\,a_{y1}\right)+24\left(a_{x1}\,a_{y2}-a_{y2}\,a_{y1}\right)+24\left(a_{x1}\,a_{y2}-a_{y2}\,a_{y1}\right)+24\left(a_{x1}\,a_{y2}-a_{y2}\,a_{y1}\right)+24\left(a_{x1}\,a_{y2}-a_{y2}\,a_{y1}\right)+24\left(a_{x1}\,a_{y2}-a_{y2}\,a_{y1}\right)+24\left(a_{x1}\,a_{y2}-a_{y2}\,a_{y1}\right)+24\left(a_{x1}\,a_{y2}-a_{y2}\,a_{y1}\right)+24\left(a_{x1}\,a_{y2}-a_{y2}\,a_{y1}\right)+24\left(a_{x1}\,a_{y2}-a_{y2}\,a_{y1}\right)+24\left(a_{x1}\,a_{y2}-a_{y2}\,a_{y1}\right)+24\left(a_{x1}\,a_{y2}-a_{y2}\,a_{y1}\right)+24\left(a_{x1}\,a_{y2}-a_{y2}\,a_{y1}\right)+24\left(a_{x1}\,a_{y2}-a_{y2}\,a_{y1}\right)+24\left(a_{x2}\,a_{y1}-a_{y2}\,a_{y2}\right)+24\left(a_{x2}\,a_{y1}-a_{y2}\,a_{y2}\right)+24\left(a_{x2}\,a_{y2}-a_{y2}\,a_{y2}\right)$ $(a_{x2} a_{y1})^3 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (c_{x1} d_{y2} - c_{y1} d_{x2}) + 24 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} c_{x2}) (a_{y1} a_{y2} - a_{y1} a_{y2}) + 24 (a_{y1} a_{y1} - a_{y1} a_{y1}) (a_{y1} a_{y2} - a_{y1} a_{y2}) + 24 (a_{y1} a_{y1} - a_{y1} a_{y1}) (a_{y1} a_{y1} - a_{y1} a_{$ $(a_{v1}, b_{v2})^3 (a_{v1}, c_{v2} - a_{v1}, c_{v2}) (a_{v2}, c_{v1} - a_{v2}, c_{v1}) + 72 (a_{v1}, a_{v2} - a_{v2}, a_{v1})^2 (a_{v1}, c_{v1} - a_{v1}, c_{v1}) (a_{v1}, c_{v2} - a_{v2}, c_{v1})^2 (a_{v1}, c_{v2} - a_{v2}, c_{v1})^2 (a_{v2}, c_{v1} - a_{v2}, c_{v1})^2 (a_{v2}, c_{v2} - a_{v2}, c_{v1})^2 (a_{v2}, c_{v2} - a_{v2}, c_{v2})^2 (a_{v2}, c$ $a_{u1} c_{x2}$) $(a_{x1} d_{u2} - a_{u1} d_{x2}) (a_{u2} b_{x1} - a_{x2} b_{u1}) + 24 (a_{x1} a_{u2} - a_{x2} a_{u1}) (a_{x1} b_{u1} - a_{u1} b_{x1}) (a_{x1} b_{u2} - a_{u2} a_{u2})$ $(a_{y1} b_{x2})^3 (c_{x1} c_{y2} - c_{x2} c_{y1}) - 32 (a_{x1} a_{y2} - a_{x2} a_{y1})^3 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} c_{y1} - a_{y2} a_{y1})^3 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x2} c_{y2} - a_{y1} c_{y2}) (a_{x2} c_{y2} - a_{y2} c_{y2}) ($ $b_{u1} c_{x1}) + 72 \left(a_{x1} a_{y2} - a_{x2} a_{y1}\right) \left(a_{x1} b_{y2} - a_{y1} b_{x2}\right)^{2} \left(a_{x1} c_{y1} - a_{y1} c_{x1}\right) \left(a_{x1} c_{y2} - a_{y1} c_{x2}\right) \left(b_{x1} b_{y2} - a_{y1} c_{x2}\right) \left(a_{x1} c_{y2} - a_{y1} c_{x2}\right) \left(a_{x1} c_{y2$ $(b_{x2} b_{y1}) - 32 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^3 (a_{x1} c_{y2} - a_{y1} c_{x2}) (b_{x1} c_{y1} - b_{y1} c_{x1}) - (a_{x1} a_{y2} - a_{y1} a_{x2}) (a_$ $36\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)^{2}\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)^{2}\left(c_{x1}\,d_{y1}-c_{y1}\,d_{x1}\right)-48\left(a_{x1}\,a_{y2}-a_{y2}\,b_{x2}\right)^{2}$ $(a_{x2} a_{y1})^3 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (b_{x1} d_{y1} - b_{y1} d_{x1}) + 72 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} c_{x2}) (a_{y1} a_{y1} - a_{y1} c_{y1}) (a_{y$ $(a_{x1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{x2} b_{y2} - a_{y2} b_{x2}) - 24 (a_{x1} a_{y2} - a_{y2} b_{x2} - a_{y2} b_{x2}) - 24 (a_{x1} a_{y2} - a_{y2} b_{x2} - a_{y2} b_{x2}) - 24 (a_{x1} a_{y2$ $(a_{x2} a_{y1})^3 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (c_{y2} d_{x1} - c_{x2} d_{y1}) - 60 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y2} - a_{y2} a_{y1})^2 (a_{x1} b_{y2} - a_{y2} a_{y1})^2 (a_{y2} a_{y1} - a_{y1} a_{y2}) - 60 (a_{y2} a_{y1} - a_{y2} a_{y1})^2 (a_{y2} a_{y2} - a_{y2} a_{y1})^2 (a_{y2} a_{y2} - a_{y2} a_{y1})^2 (a_{y2} a_{y2} - a_{y2} a_{y2})^2 (a_{y2} a_{y2} - a_{y2} a_{y2} - a_{y2} a_{y2})^2 (a_{y2} a_{y2} - a_{y2} a_{y2} - a_{y2} a_{y2})^2 (a_{y2} a_{y2} - a_{y2} a_{y2} - a_{y2} a_{y2} a_{y2})^2 (a_{y2} a_{y2} - a_{y2} a_{y2} - a_{y2} a_{y$ $(a_{y1} b_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x1}) (b_{x1} c_{y1} - b_{y1} c_{x1}) - 72 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} a_{y1})^2 (a_{y1} b_{y1} - a_{y1} b_{y1}) (a_{y1} c_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1}) (a_{y1} c_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1} - a_{y1} b_{y1}) (a_{y1} c_{y1} - a_{y1} b_{y1} -$ $(a_{u1} c_{x2}) (a_{x1} d_{u1} - a_{u1} d_{x1}) (a_{u2} c_{x1} - a_{x2} c_{u1}) - 144 (a_{x1} a_{u2} - a_{x2} a_{u1})^2 (a_{x1} b_{u1} - a_{u1} b_{x1}) (a_{x1} b_{u2} - a_{u2} a_{u1})^2$ $(a_{x1} b_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (b_{y2} c_{x1} - b_{x2} c_{y1}) + 8 (a_{x1} a_{y2} - a_{x2} a_{y1})^3 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y1} - a_{y1} c_{x2}) (a_{x1$ $(a_{u1} d_{u1}) (b_{u1} c_{u1} - b_{u1} c_{u1}) + 36 (a_{u1} a_{u2} - a_{u2} a_{u1})^2 (a_{u1} b_{u2} - a_{u1} b_{u2})^2 (a_{u1} c_{u1} - a_{u1} c_{u1}) (b_{u1} d_{u2} - a_{u1} b_{u2})^2$ $b_{y1} d_{x2}$) $-6 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x2} b_{y2} - a_{y2} b_{x2}) 72\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(a_{x2}\,b_{y2}-a_{y1}\,d_{x2}\right)\left(a_{x2}\,b_{y2}-a_{y1}\,d_{x2}\right)\left(a_{x2}\,b_{y2}-a_{y1}\,d_{x2}\right)\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(a_{x2}\,d_{y2}-a_{y1}\,d_{y2}\right)\left(a_{x2}\,d_{y2}-a_{y1}\,d_{y$ $(a_{y2} b_{x2}) + 12 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (b_{y2} c_{x1} - b_{x2} c_{y1}) +$ $24\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)^{2}\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)^{2}\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)\left(b_{x1}\,c_{y1}-b_{y1}\,c_{x1}\right)+8\left(a_{x1}\,a_{y2}-a_{y1}\,a_{y2}\right)^{2}$ $a_{x2}\,a_{y1})^3(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})^2\,(c_{x1}\,c_{y2}-c_{x2}\,c_{y1}) + 144\,(a_{x1}\,a_{y2}-a_{x2}\,a_{y1})^2\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})\,(a_{x1}\,b_{y2}-a_{y2}\,a_{y1})^2$ $(a_{x1} b_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{y2} c_{x1} - b_{x2} c_{y1}) - 6 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1})^3 (a_{x2} c_{y2} - a_{y1} c_{y1})^3 (a_{y2} c_{y2} - a_{y2} c_{y1})^3 (a_{y2} c_{y2} - a_{y2} c_{y1})^3 (a_{y2} c_{y2} - a_{y2} c_{y2})^3 (a_{y2} c_{y2} - a_{y2$ $(a_{y2} c_{x2}) + 36 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (b_{x1} b_{y2} - b_{x2} b_{y1}) - b_{x2} b_{y1}$ $2(a_{x1}b_{y1}-a_{y1}b_{x1})(a_{x1}b_{y2}-a_{y1}b_{x2})^{3}(b_{x1}b_{y2}-b_{x2}b_{y1})^{2}-72(a_{x1}a_{y2}-a_{x2}a_{y1})(a_{x1}b_{y1}-a_{y1}b_{x2})^{3}$ $(a_{x1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x2} c_{y2} - a_{y2} c_{x2}) + 2 (a_{x1} b_{y2} - a_{y1} c_{x2}) (a_{x2} c_{y2} - a_{y2} c_{x2}) + 2 (a_{x1} b_{y2} - a_{y1} c_{x2}) (a_{x2} c_{y2} - a_{y2} c_{x2}) + 2 (a_{x1} b_{y2} - a_{y1} c_{x2}) (a_{x2} c_{y2} - a_{y2} c_{x2}) + 2 (a_{x2} c_{y2} - a_{y2} c_{x2}) + 2$ $(a_{y1} b_{x2})^5 (b_{x1} c_{y1} - b_{y1} c_{x1}) + 24 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (b_{x1} c_{y1} - a_{y1} c_{x2})^2 (a_{x1} c_{y2} - a_{y1} c_{y2})^2 (a_{x1} c_{y2} - a_{y1} c_{y2} - a_{y$ $b_{u1}\,c_{x1}) + 6\,(a_{x1}\,b_{u1} - a_{u1}\,b_{x1})\,(a_{x1}\,b_{u2} - a_{u1}\,b_{x2})^4\,(b_{u2}\,c_{x1} - b_{x2}\,c_{u1}) + 144\,(a_{x1}\,a_{u2} - a_{x2}\,a_{u1})^2\,(a_{x1}\,b_{u1} - a_{u2}\,a_{u2})^2\,(a_{x1}\,b_{u2} - a_{u2}\,a_{u2})^2\,(a_{x2}\,b_{u2} -$ $(a_{u1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (c_{x1} c_{y2} - c_{x2} c_{y1}) - 8 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{y2} b_{x1} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x2} c_{y2} - a_{y2} c_{y1}) - 8 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{y2} b_{x1} - a_{y1} b_{x2}) (a_{y2} c_{y2} - a_{y1} c_{y2}) (a_{y2} c_{y2} - a_{y1} c_{y2})$ $a_{x2}\,b_{y1})\,(a_{y2}\,c_{x1}-a_{x2}\,c_{y1})\,(a_{x2}\,c_{y2}-a_{y2}\,c_{x2}) - 8\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})\,(a_{x1}\,c_{y2}-a_{y2}\,c_{x2}) - 8\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})\,(a_{x1}\,c_{y2}-a_{y2}\,c_{x2}) - 8\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})\,(a_{x1}\,c_{y2}-a_{y2}\,c_{x2}) - 8\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})\,(a_{x2}\,c_{y2}-a_{y2}\,c_{x2}) - 8\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})\,(a_{x2}\,c_{y2}-a_{y2}\,c_{x2}) - 8\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})\,(a_{x2}\,c_{y2}-a_{y2}\,c_{x2}) - 8\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})\,(a_{x1}\,c_{y2}-a_{y2}\,c_{x2}) - 8\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})\,(a_{x1}\,c_{y2}-a_{y2}\,c_{x2}) - 8\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})\,(a_{x1}\,c_{y2}-a_{y2}\,c_{x2}) - 8\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})\,(a_{x1}\,c_{y2}-a_{y2}\,c_{x2}) - 8\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})\,(a_{x1}\,c_{y2}-a_{y2}\,c_{x2}) - 8\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})\,(a_{x1}\,c_{y2}-a_{y1}\,c_{x1})\,(a_{x1}\,c_{y2}-a_{y2}\,c_{x2}) - 8\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})\,(a_{x1}\,c_{y2}-a_{y1}\,c_{x1})\,(a_{x1}\,c_{y2}-a_{y2}\,c_{x2}) - 8\,(a_{x1}\,b_{y1}-a_{y1}\,b_{y1})\,(a_{x1}\,c_{y2}-a_{y1}\,c_{y2})\,(a_{x1}\,c_{y2}-a_{y2}\,c_{y2}) - 8\,(a_{x1}\,b_{y1}-a_{y1}\,b_{y1})\,(a_{x1}\,c_{y2}-a_{y1}\,c_{y2})\,(a_{x1}\,c_{y2}-a_{y2}\,c_{y2}) - 8\,(a_{x1}\,b_{y1}-a_{y1}\,b_{y1})\,(a_{x1}\,c_{y2}-a_{y2}\,c_{y2}) - 8\,(a_{x1}\,b_{y1}-a_{y1}\,b_{y1})\,(a_{x1}\,c_{y2}-a_{y1}\,c_{y2}) - 8\,(a_{x1}\,b_{y1}-a_{y1}\,b_{y1})\,(a_{x1}\,c_{y2}-a_{y2}\,c_{y2}) - 8\,(a_{x1}\,b_{y1}-a_{y1}\,b_{y1})\,(a_{x1}\,c_{y2}-a_{y1}\,b_{y1}-a_{y1}\,b_{y1}) - 8\,(a_{x1}\,b_{y1}-a_{y1}\,b_{y1}-a_{y1}\,b_{y1}) - 8\,(a_{x1}\,b_{y1}-a_{y1}\,b_{y1}-a_{y1}\,b_{y1}) - 8\,(a_{x1}\,b_{y1}-a_{y1}\,b_{y1}-a_{y1}\,b_{y1}) - 8\,(a_{x1}\,b_{y1}-a_{y1}\,b_{y1}-a_{y1}\,b_{y1}) - 8\,(a_{x1}\,b_{y1}-a_{y1}\,b_{y1}-a_{y$ $(a_{y1} c_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1})^3 - 16 (a_{x1} a_{y2} - a_{x2} a_{y1})^3 (a_{x1} b_{y1} - a_{y1} b_{x1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x1} d_{y2} - a_{y2} a_{y1})^3 - 16 (a_{x1} a_{y2} - a_{x2} a_{y1})^3 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{y2} - a_{y2} a_{y1})^3 - 16 (a_{x1} a_{y2} - a_{x2} a_{y1})^3 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{y2} - a_{y1} a_{y2} - a_{y1} a_{y1} a_{y1} - a_{y1} a_{y1} a_{y1} a_{y2} - a_{y1} a_{y1} a_{y1} a_{y1} a_{y1} a_{y1} a_{y1} a_{y2} a_{y1} a_{y1}$ $(b_{y1} d_{x2}) + 24 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x2} d_{y2} - a_{y2} d_{x2}) (b_{x1} c_{y2} - b_{y1} c_{x2}) - b_{y1} c_{x2}$ $24\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)^{2}\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)\left(a_{y2}\,b_{x1}-a_{x2}\,b_{y1}\right)\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right) 16\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)^{3}\left(a_{y2}\,b_{x1}-a_{x2}\,b_{y1}\right)\left(b_{x1}\,c_{y2}-b_{y1}\,c_{x2}\right)-12\left(a_{x1}\,a_{y2}-b_{y1}\,a_{x2}\right)^{3}$ $(a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x2} c_{y2} - a_{y2} c_{x2}) (a_{x2} d_{y2} - a_{y2} d_{x2}) + 24 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y2} d_{x2}) + 24 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y2} d_{x2}) + 24 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y2} d_{x2}) + 24 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y2} d_{x2}) + 24 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y2} d_{x2}) + 24 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y2} d_{x2}) + 24 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y2} d_{x2}) + 24 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y2} d_{x2}) + 24 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y2} d_{x2}) + 24 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y2} d_{x2}) + 24 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y2} d_{x2}) + 24 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y2} d_{x2}) + 24 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y2} d_{x2}) + 24 (a_$ $(a_{y1} b_{x2})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x2} c_{y2} - b_{y2} c_{x2}) + 16 (a_{x1} a_{y2} - a_{x2} a_{y1})^3 (a_{x1} b_{y1} - a_{y1} b_{x1}) (b_{x1} c_{y2} - a_{y2} a_{y1})^3 (a_{y1} b_{y2} - a_{y2} a_{y1})^3 (a_{y2} b_{y2} - a_{y2} a_{y2})^3 (a_{y2} b_{y2} - a_{y2} a_{y2} a_{y2})^3 (a_{y2} b_{y2} - a_{y2} a_{y2} a_{y2} a_{y2} a_{y2})^3 (a_{y2} b_{y2} - a_{y2} a_{y2}$ $b_{y1} c_{x2}) \left(b_{x1} d_{y1} - b_{y1} d_{x1}\right) - 24 \left(a_{x1} a_{y2} - a_{x2} a_{y1}\right) \left(a_{x1} b_{y1} - a_{y1} b_{x1}\right) \left(a_{x1} b_{y2} - a_{y1} b_{x2}\right)^2 \left(b_{x1} b_{y2} - a_{y1} b_{x2}\right)^2 \left(a_{x1} b_{y2$ $b_{x2}\,b_{y1})\,(b_{x1}\,c_{y2}-b_{y1}\,c_{x2})+24\,(a_{x1}\,a_{y2}-a_{x2}\,a_{y1})^2\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})^2\,(a_{y2}\,d_{x1}-a_{x2}\,d_{y1})\,(b_{x1}\,c_{y2}-a_{y2}\,a_{y1})^2\,(a_{y2}\,d_{y1}-a_{y2}\,d_{y1})\,(a_{y2}\,d_{y1}-a_{y2}\,d_{y1})^2\,(a_{y2}\,d_{y1}-a$ $(b_{y1} c_{x2}) + 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x2} b_{y2} - a_{y2} b_{x2}) (b_{x2} c_{y2} - b_{y2} c_{x2}) +$ $24\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)^{2}\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)\left(a_{y2}\,b_{x1}-a_{x2}\,b_{y1}\right)\left(b_{x1}\,d_{y1}-b_{y1}\,d_{x1}\right) 16\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{y2}\,b_{x1}-a_{x2}\,b_{y1}\right)^{2}\left(c_{x1}\,c_{y2}-c_{x2}\,c_{y1}\right)-12\left(a_{x1}\,a_{y2}-a_{y2}\,b_{y1}\right)^{2}$

 $a_{x2}\,a_{y1})\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})^3\,(a_{y2}\,d_{x1}-a_{x2}\,d_{y1})\,(a_{x2}\,c_{y2}-a_{y2}\,c_{x2})+6\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})^2\,(a_{x1}\,c_{y1}-a_{y1}\,b_{x1})^2$ $(a_{u1} c_{x1}) (a_{u2} b_{x1} - a_{x2} b_{u1})^2 (a_{x2} c_{u2} - a_{u2} c_{x2}) + 24 (a_{x1} b_{u1} - a_{u1} b_{x1})^3 (a_{x1} b_{u2} - a_{u1} b_{x2}) (a_{u2} d_{x1} - a_{u2} d_{x1})^3$ $(a_{x2} d_{y1}) (a_{x2} b_{y2} - a_{y2} b_{x2}) - 24 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x2} b_{y2} - a_{y2} b_{x2}) (b_{x2} d_{y2} - a_{y2} b_{x2}) (b_{x2} d_{y2} - a_{y2} b_{x2}) (a_{x2} b_{y2} - a_{y2} b_{x2}) (a_{x$ $(b_{y2} d_{x2}) + 12 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{y2} d_{x1} - a_{x2} d_{y1}) +$ $12\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)^{2}\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(b_{x1}\,b_{y2}-b_{x2}\,b_{y1}\right)\left(b_{x2}\,d_{y2}-b_{y2}\,d_{x2}\right)+6\left(a_{x1}\,a_{y2}-a_{y2}\,a_{y2}\right)^{2}$ $(a_{x2} a_{v1})^2 (a_{x1} b_{v1} - a_{v1} b_{x1}) (a_{x1} d_{v1} - a_{v1} d_{x1}) (b_{x1} b_{v2} - b_{x2} b_{v1})^2 - 6 (a_{x1} b_{v1} - a_{v1} b_{x1}) (a_{x1} b_{v2} - b_{v2} b_{v1})^2$ $(a_{y1} b_{x2})^2 (a_{x1} d_{y2} - a_{y1} d_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1})^2 + 36 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{y1})^2 + 36 (a_{y1} a_{y2} - a_{y1} a_{y1})^2 (a_{y1} a_{y1} - a_{y1} a_{y1})^2 + 36 (a_{y1} a_{y2} - a_{y1} a_{y1})^2 (a_{y1} a_{y1} - a_{y1} a_{y1})^2 + 36 (a_{y1} a_{y2} - a_{y1} a_{y1})^2 (a_{y1} a_{y1} - a_{y1} a_{y1})^2 + 36 (a_{y1} a_{y2} - a_{y1} a_{y1})^2 + 36 (a_{y1} a_{y1} - a_{y1} a_{y1})^2 + 36 (a_{y1} a_{y1} - a_{y1} a_{y1} a_{y1} - a_{y1} a_$ $a_{y1} b_{x2}$) $(b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} d_{y1} - b_{y1} d_{x1}) - 36 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y2} a_{y1}) (a_{y1} b_{y2} - a_{y1} b_{y1}) (a_{y1} b_{y1} - a_{y1} b_{y1}) (a_{y1} b_{y2} - a_{y1} b_{y1}) (a_{y1} b_{y1} - a_{y1} b_{y1}) (a_{y1} b_{y2} - a_{y1} b_{y1}) (a_{y1} b_{y1} - a_{y1} b_{y1}) (a_{y1} b_{y2} - a_{y1} b_{y1}) (a_{y1} b_{y1} - a_{y1} b_{y1}) (a_{y1} b_{y2} - a_{y1} b_{y1}) (a_{y1} b_{y1} - a_{y1} b_{y1}) (a_{y1} b_{y2} - a_{y1} b_{y1}) (a_{y1} b_{y1} - a_{y1} b_{y1}) (a_{y1} b_{y2} - a_{y1} b_{y1}) (a_{y1} b_{y1} - a_{y1} b_{y1}) (a_{y1$ $(a_{y1} b_{x2})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) + 18 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} d_{y1} - a_{y1} b_{x2})^2 (a_{y1} b_{y2} - a_{y1} b_{y2})^2 (a_{y1} d_{y2} - a_{y1} b_{y2})^2 (a_{y1} d_{y2} - a_{y1} d_{y2})^2 (a_{y1} d_{y2} - a_{y$ $(a_{y1} d_{x1}) (a_{y2} b_{x1} - a_{x2} b_{y1})^2 - 18 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y2} - a_{y1} d_{x2}) (b_{x1} b_{y2} - a_{y1} d_{x2}) (a_{x1} a_{y2} - a_{y1} d_{x2}) (a_$ $(a_{x2} b_{y1})^2 - 10 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x2} b_{y2} - a_{y2} b_{x2})^2 (b_{x1} c_{y1} - b_{y1} c_{x1}) + 24 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 + 24 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 + 24 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 + 24 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{y1})^2 + 24 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{y1})^2 + 24 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{y1})^2 + 24 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{y1})^2 + 24 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{y1})^2 + 24 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{y1})^2 + 24 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{y1})^2 + 24 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{y1})^2 + 24 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{y1})^2 + 24 (a_{x1} a_{y1} - a_{y1} a_{y1})^2 + 24 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{y1})^2 + 24 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{y1})^2 + 24 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{y1})^2 + 24 (a_{x1} a_{y2} - a_{y2} a_{y1}) (a_{x1} a_{y1} - a_{y1} a_{y1})^2 + 24 (a_{x1} a_{y1} - a_{y1} a_{y1} a_{y1} - a_{y1} a_{y1})^2 + 24 (a_{x1} a_{y1} - a_{y1} a_{y1} a_{y1} - a_{y1} a_$ $(a_{y1} b_{x1})^3 (a_{x2} c_{y2} - a_{y2} c_{x2}) (b_{x2} c_{y2} - b_{y2} c_{x2}) - 18 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{y2} b_{x1} - a_{y2} b_{x2}) (a_{y2} b_{x2} - a_{y2} b_{x2}) (a_$ $(a_{x2} b_{y1})^2 (b_{y2} c_{x1} - b_{x2} c_{y1}) - 12 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (b_{x1} c_{y2} - b_{y1} c_{x2}) (b_{x2} c_{y2} - a_{y2} a_{y1})^2 (a_{y1} b_{y1} - a_{y1} b_{y1})^2 (a_{y2} c_{y2} - a_{y2} a_{y1})^2 (a_{y2} c_{y2} - a_{y2} a_{y2} a_{y1})^2 (a_{y2} c_{y2} - a_{y2} a_{$ $(b_{y2} c_{x2}) - 18 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) (b_{x1} b_{y2} - b_{x2} b_{y1})^2 - (a_{y2} c_{x2} - a_{y2} c_{y1}) (a_{y2} c_{y2} - a_{y2} c_{y2}) ($ $6\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)^{2}\left(a_{y2}\,b_{x1}-a_{x2}\,b_{y1}\right)^{2}-12\left(a_{x1}\,a_{y2}-a_{y1}\,b_{x2}\right)^{2}$ $(a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} c_{y1} - b_{y2} b_{y1}) (b_{y1} b_{y2} - b_{y2} b_{y1}) (b_{y2} b_{y2} - b_{y2} b_{y2}) (b_{y2} b_{y$ $b_{y1} c_{x1}$) $-36 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} b_{y2} - a_{y1} c_{x2})^2$ $(b_{x2} b_{y1}) - 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x2} b_{y2} - a_{y2} b_{x2})^2 (b_{x1} c_{y1} - b_{y1} c_{x1}) - 18 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x2} b_{y2} - a_{y2} b_{x2})^2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x2} b_{y2} - a_{y2} b_{x2})^2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x2} b_{y2} - a_{y2} b_{x2})^2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x2} b_{y2} - a_{y2} b_{x2})^2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x2} b_{y2} - a_{y2} b_{x2})^2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x2} b_{y2} - a_{y2} b_{x2})^2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x2} b_{y2} - a_{y2} b_{x2})^2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x2} b_{y2} - a_{y2} b_{x2})^2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x2} b_{y2} - a_{y2} b_{x2})^2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x2} b_{y2} - a_{y2} b_{x2})^2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x2} b_{y2} - a_{y2} b_{x2})^2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x2} b_{y2} - a_{y2} b_{x2})^2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x2} b_{y2} - a_{y2} b_{x2})^2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y1}$ $(a_{x1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (b_{x1} c_{y2} - b_{y1} c_{x2})^{2} + 6 (a_{x1} a_{y2} - a_{x2} a_{y1})^{2} (a_{x1} c_{y1} - a_{y1} c_{x1})^{2} (b_{x1} b_{y2} - a_{y1} b_{x2})^{2}$ $(b_{x2} b_{y1})^2 - 8 (a_{x1} a_{y2} - a_{x2} a_{y1})^3 (a_{x1} c_{y1} - a_{y1} c_{x1}) (b_{x1} c_{y1} - b_{y1} c_{x1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) - b_{y1} c_{x2}$ $6(a_{x1}a_{y2}-a_{x2}a_{y1})^2(a_{x1}b_{y2}-a_{y1}b_{x2})^2(b_{x1}c_{y1}-b_{y1}c_{x1})^2+12(a_{x1}a_{y2}-a_{x2}a_{y1})^2(a_{x1}c_{y1}-a_{y2}a_{y1})^2$ $(a_{y1} c_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) + 6 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{y2} b_{x1} - a_{y2} b_{x1})^2$ $(a_{x2} b_{y1})^2 + 18 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{y2} c_{x1} - a_{x2} c_{y1})^2 +$ $42\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)\left(a_{y2}\,c_{x1}-a_{x2}\,c_{y1}\right)\left(b_{y2}\,c_{x1}-b_{x2}\,c_{y1}\right)+$ $6\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)^{2}\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{y2}\,c_{x1}-a_{x2}\,c_{y1}\right)\left(c_{x1}\,c_{y2}-c_{x2}\,c_{y1}\right)$ $c_{11} = 60 \left(a_{x1} \, a_{y2} - a_{x2} \, a_{y1} \right)^3 \left(a_{x1} \, b_{y2} - a_{y1} \, b_{x2} \right) \left(a_{x1} \, d_{y1} - a_{y1} \, d_{x1} \right)^2 - 120 \left(a_{x1} \, a_{y2} - a_{x2} \, a_{y1} \right)^3 \left(a_{x1} \, b_{y2} - a_{y2} \, a_{y1} \right)^3 \left(a_{x1} \, b_{y2} - a_{y2} \, a_{y1} \right)^3 \left(a_{x1} \, b_{y2} - a_{y2} \, a_{y1} \right)^3 \left(a_{x1} \, b_{y2} - a_{y2} \, a_{y1} \right)^3 \left(a_{x1} \, b_{y2} - a_{y2} \, a_{y1} \right)^3 \left(a_{x1} \, b_{y2} - a_{y2} \, a_{y1} \right)^3 \left(a_{x1} \, b_{y2} - a_{y2} \, a_{y1} \right)^3 \left(a_{x1} \, b_{y2} - a_{y2} \, a_{y1} \right)^3 \left(a_{x1} \, b_{y2} - a_{y2} \, a_{y1} \right)^3 \left(a_{x1} \, b_{y2} - a_{y2} \, a_{y1} \right)^3 \left(a_{x1} \, b_{y2} - a_{y2} \, a_{y1} \right)^3 \left(a_{x1} \, b_{y2} - a_{y2} \, a_{y1} \right)^3 \left(a_{x1} \, b_{y2} - a_{y2} \, a_{y1} \right)^3 \left(a_{x1} \, b_{y2} - a_{y2} \, a_{y2} \right)^3 \left(a_{x1} \, b_{y2} - a_{y2} \, a_{y2} \right)^3 \left(a_{x1} \, b_{y2} - a_{y2} \, a_{y2} \right)^3 \left(a_{x2} \,$ $(a_{u1} b_{u2}) (a_{x1} d_{u1} - a_{u1} d_{x1}) (a_{x1} d_{u2} - a_{u1} d_{x2}) + 4 (a_{x1} b_{u1} - a_{u1} b_{x1})^2 (a_{u2} b_{x1} - a_{x2} b_{u1})^3 (b_{x1} b_{u2} - a_{u1} b_{x2})^2 + 4 (a_{x1} b_{u1} - a_{u1} b_{x2})^2 (a_{u2} b_{x1} - a_{x2} b_{u1})^3 (a_{x1} b_{u2} - a_{u1} b_{x2})^2 + 4 (a_{x1} b_{u1} - a_{u1} b_{x2})^2 + 4 (a_{x1} b_{u2} - a_{u2} b_{u2})^2 + 4 (a_{x1} b_{u2} - a_{u2} b_{u2} b_{u2})^2 + 4 (a_{x1} b_{u2} - a_{u2} b_{u2} b$ $(b_{x2} b_{y1}) + 6 (a_{x1} b_{y2} - a_{y1} b_{x2})^5 (a_{x1} c_{y2} - a_{y1} c_{x2}) - 30 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^4 (a_{x1} d_{y1} - a_{y1} b_{y2})^4 (a_{y1} d_{y2} - a_{y1} d_{y2})^4 (a_{y1} d_{y1} - a_{y1} d_{y1})^4 (a_{y1} d_{y1} -$ $(a_{x1} d_{x1}) + 30 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^4 (a_{x1} d_{y2} - a_{y1} d_{x2}) - 60 (a_{x1} a_{y2} - a_{x2} a_{y1})^3 (a_{x1} c_{y2} - a_{y1} b_{x2})^4 (a_{y1} d_{y2} - a_{y1} d_{y2})^3 - 60 (a_{y1} a_{y2} - a_{y2} a_{y1})^3 (a_{y1} c_{y2} - a_{y1} d_{y2})^3 - 60 (a_{y1} a_{y2} - a_{y2} a_{y1})^3 - 60 (a_{y1} a_{y2} - a_{y2} a_{y2})^3 - 60 (a_{y1} a_{y2} - a_{y2} a_{y2} a_{y2})^3 - 60 (a_{y1} a_{y2} - a_{y2} a_{y2} a_{y2})^3 - 60 (a_{y1} a_$ $(a_{x1} a_{y1} c_{x2})^2 (a_{x1} d_{y1} - a_{y1} d_{x1}) + 60 (a_{x1} a_{y2} - a_{x2} a_{y1})^3 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2})^2 +$ $60\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)^{3}\left(a_{x1}\,c_{y2}-a_{y1}\,c_{x2}\right)^{2}\left(a_{x1}\,d_{y2}-a_{y1}\,d_{x2}\right)+60\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)^{2}\left(a_{x1}\,b_{y2}-a_{y1}\,d_{x2}\right)$ $(a_{x1} b_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2})^3 + 60 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^3 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 - (a_{x1} a_{y2} - a_{y1} a_{x2})^3 (a_{x1} a_{y2} - a_{y1} a_{x2})^3 + 60 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^3 (a_{x1} c_{y2} - a_{y1} c_{x2})^2 - (a_{x1} a_{y2} - a_{y1} a_{x2})^3 (a_{x1} a_{y2} - a_{y1} a_{x2})^3 + 60 (a_{x1} a_{y2} - a_{y1} a_{x2})^3 (a_{x1} a_{y2} - a_{y1} a_{x2})^3 (a_{x1} a_{y2} - a_{y1} a_{x2})^3 - (a_{x1} a_{y2} - a_{y1} a_{x2})^3 (a_{x1} a_{y2} - a_{y1} a_{x2})^3 (a_{x1} a_{y2} - a_{y1} a_{x2})^3 + 60 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y2} - a_{y1} a_{x2})^3 (a_{x1} a_{y2} - a_{y1} a_{x2})^3 - (a_{x1} a_{y2} - a_{y1} a_{x2})^3 (a_{x1} a_{y2} - a_{y1} a_{x2})^3 (a_{x1} a_{y2} - a_{y1} a_{x2})^3 - (a_{x1} a_{y2} - a_{y1} a_{x2})^3 (a_{x1} a_{y2} - a_{y1} a_{x2})^3 - (a_{x1} a_{y2} - a_{y1} a_{x2})^3 (a_{x1} a_{y2} - a_{y1} a_{x2})^3 - (a_{x1} a_{y2} - a_{y1} a_{x2})^3 (a_{x1} a_{y2} - a_{y1} a_{x2})^3 - (a_{$ $180 \left(a_{x1} \, a_{y2} - a_{x2} \, a_{y1}\right)^2 \left(a_{x1} \, b_{y2} - a_{y1} \, b_{x2}\right)^2 \left(a_{x1} \, c_{y2} - a_{y1} \, c_{x2}\right) \left(a_{x1} \, d_{y1} - a_{y1} \, d_{x1}\right) + 180 \left(a_{x1} \, a_{y2} - a_{y1} \, c_{x2}\right) \left(a_{x1} \, d_{y1} - a_{y1} \, d_{x1}\right) + 180 \left(a_{x1} \, a_{y2} - a_{y1} \, c_{x2}\right) \left(a_{x1} \, d_{y1} - a_{y1} \, d_{x1}\right) + 180 \left(a_{x1} \, a_{y2} - a_{y1} \, c_{x2}\right) \left(a_{x1} \, d_{y1} - a_{y1} \, d_{x1}\right) + 180 \left(a_{x1} \, a_{y2} - a_{y1} \, c_{x2}\right) \left(a_{x1} \, d_{y1} - a_{y1} \, d_{x1}\right) + 180 \left(a_{x1} \, a_{y2} - a_{y1} \, c_{x2}\right) \left(a_{x1} \, d_{y1} - a_{y1} \, d_{x1}\right) + 180 \left(a_{x1} \, a_{y2} - a_{y1} \, c_{x2}\right) \left(a_{x1} \, d_{y1} - a_{y1} \, d_{x1}\right) + 180 \left(a_{x1} \, a_{y2} - a_{y1} \, c_{x2}\right) \left(a_{x1} \, d_{y1} - a_{y1} \, d_{x1}\right) + 180 \left(a_{x1} \, a_{y2} - a_{y1} \, c_{x2}\right) \left(a_{x1} \, d_{y1} - a_{y1} \, d_{x1}\right) + 180 \left(a_{x1} \, a_{y2} - a_{y1} \, c_{x2}\right) \left(a_{x1} \, d_{y1} - a_{y1} \, d_{x1}\right) + 180 \left(a_{x1} \, a_{y2} - a_{y1} \, c_{x2}\right) \left(a_{x1} \, d_{y1} - a_{y1} \, d_{x1}\right) + 180 \left(a_{x1} \, a_{y2} - a_{y1} \, c_{x2}\right) \left(a_{x1} \, d_{y1} - a_{y1} \, d_{x1}\right) + 180 \left(a_{x1} \, a_{y2} - a_{y1} \, c_{x2}\right) \left(a_{x1} \, d_{y1} - a_{y1} \, d_{x1}\right) + 180 \left(a_{x1} \, a_{y2} - a_{y1} \, c_{x2}\right) \left(a_{x1} \, d_{y1} - a_{y1} \, d_{x1}\right) + 180 \left(a_{x1} \, a_{y2} - a_{y1} \, c_{x2}\right) \left(a_{x1} \, d_{y2} - a_{y1} \, d_{x2}\right) + 180 \left(a_{x1} \, a_{y2} - a_{y1} \, c_{x2}\right) \left(a_{x1} \, d_{y2} - a_{y1} \, d_{x2}\right) + 180 \left(a_{x1} \, a_{y2} - a_{y1} \, d_{x2}\right) + 180 \left(a_{x1} \, a_{y2} - a_{y1} \, d_{x2}\right) + 180 \left(a_{x1} \, a_{y2} - a_{y1} \, d_{x2}\right) + 180 \left(a_{x1} \, a_{y2} - a_{y1} \, d_{x2}\right) + 180 \left(a_{x1} \, a_{y2} - a_{y1} \, d_{x2}\right) + 180 \left(a_{x1} \, a_{y2} - a_{y1} \, d_{x2}\right) + 180 \left(a_{x1} \, a_{y2} - a_{y1} \, d_{x2}\right) + 180 \left(a_{x1} \, a_{y2} - a_{y1} \, d_{x2}\right) + 180 \left(a_{x1} \, a_{y2} - a_{y1} \, d_{x2}\right) + 180 \left(a_{x1} \, a_{y2} - a_{y1} \, d_{x2}\right) + 180 \left(a_{x1} \, a_{y2} - a_{y1} \, d_{x2}\right) + 180 \left(a_{x1} \, a_{y2} - a_{y1} \, d_{x2}\right) + 180 \left(a_{x1} \, a_{y2} - a_{y1} \, d_{x2}\right) + 180 \left(a_{x1} \, a_{y2} - a_{y1} \, d_{x2}\right) + 180 \left(a_{x1} \, a_{y2} - a_{y1} \, d_{$ $(a_{x2} a_{y1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) + 6 (a_{x1} b_{y2} - a_{y1} b_{x2})^4 (a_{x1} c_{y1} - a_{y1} b_{x2})^4 (a_{x1} c_{y1} - a_{y1} b_{x2})^4 (a_{y1} c_{y1} - a_{y1} b_{y2})^4 (a_{y1} c_{y1} - a_{$ $a_{y1}\,c_{x1})\,(a_{y2}\,b_{x1}-a_{x2}\,b_{y1})-24\,(a_{x1}\,a_{y2}-a_{x2}\,a_{y1})^3\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})\,(a_{x1}\,d_{y1}-a_{y1}\,d_{x1})\,(b_{x1}\,b_{y2}-a_{y1}\,d_{x2})$ $b_{x2}\,b_{y1}$)+4 $(a_{x1}\,a_{y2}-a_{x2}\,a_{y1})\,(a_{x1}\,b_{y2}-a_{y1}\,b_{x2})^4\,(b_{x1}\,c_{y1}-b_{y1}\,c_{x1})-24\,(a_{x1}\,a_{y2}-a_{x2}\,a_{y1})^3\,(a_{x1}\,b_{y1}-a_{y1}\,b_{y2})^4$ $a_{y1}b_{x1}$) $(a_{x1}b_{y2}-a_{y1}b_{x2})(c_{x1}d_{y1}-c_{y1}d_{x1})+24(a_{x1}a_{y2}-a_{x2}a_{y1})(a_{x1}b_{y1}-a_{y1}b_{x1})(a_{x1}b_{y2}-a_{y1}b_{x1})$ $(a_{y1} b_{x2})^3 (b_{y2} c_{x1} - b_{x2} c_{y1}) - 24 (a_{x1} a_{y2} - a_{x2} a_{y1})^3 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (b_{x1} c_{y1} - a_{y1} d_{x1}) (a_{x1} a_{y2} - a_{y1} b_{x2})$ $b_{u1} c_{x1}) + 40 (a_{x1} a_{y2} - a_{x2} a_{y1})^3 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) 72\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)^{2}\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)\left(a_{x1}\,d_{y1}-a_{y1}\,d_{x1}\right)\left(a_{y2}\,c_{x1}-a_{x2}\,c_{y1}\right)+$

 $24 \left(a_{x1} \, a_{y2} - a_{x2} \, a_{y1}\right)^3 \left(a_{x1} \, b_{y1} - a_{y1} \, b_{x1}\right) \left(a_{x1} \, d_{y2} - a_{y1} \, d_{x2}\right) \left(b_{y2} \, c_{x1} - b_{x2} \, c_{y1}\right) + 8 \left(a_{x1} \, a_{y2} - a_{y1} \, d_{x2}\right) \left(a_{x1} \, a_{y2} - a$ $(a_{x2} a_{y1})^3 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (b_{x1} c_{y1} - b_{y1} c_{x1}) + 56 (a_{x1} a_{y2} - a_{x2} a_{y1})^3 (a_{x1} b_{y1} - a_{y1} a_{y1})$ $(a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (c_{x1} d_{y2} - c_{y1} d_{x2}) + 2 (a_{x1} a_{y2} - a_{x2} a_{y1})^3 (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (b_{y2} c_{x1} - a_{y1} c_{x1})^2 (a_{y1} a_{y2} - a_{y1} a_{y1})^3 (a_{y1} a_{y1} - a_{y1} a_{y1})^2 (a_{y1} a_{y2} - a_{y1} a_{y1})^2 (a_{y1} a_{y1} - a_{y1} a_{y1} a_{y1})^2 (a_{y1} a_{y1} - a_{y1} a_{y1} a_{y1} a_{y1} a_{y1})^2 (a_{y1} a_{y1} a_{y1}$ $b_{x2} c_{y1}$) $-72 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x2} d_{y2} - a_{y1} b_{x2}) (a_{y1} c_{y1} - a_{y1} c_{y1}) (a_{y2} c_{y2} - a_{y1} c_{y1}) (a_{y1} c_{y1} - a_{y1} c_{y1}) (a_{y2} c_{y2} - a_{y1} c_{y1}) (a_{y1} c_{y1} - a_{y1} c_{y1}) (a_{y2} c_{y2} - a_{y1} c_{y1}) (a_{y1} c_{y1} - a_{y1} c_{y1}) (a_{y2} c_{y1} - a_{y1} c_{y1}) (a_{y1} c_{y1} - a_{y1} c_{y1}) (a_{y2} c_{y1} - a_{y1} c_{y1}) (a_{y$ $(a_{y2} d_{x2}) + 6 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) + 0$ $36\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)^{2}\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)^{2}\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)\left(b_{x1}\,c_{y2}-b_{y1}\,c_{x2}\right)+20\left(a_{x1}\,a_{y2}-a_{y1}\,b_{x2}\right)^{2}$ $a_{x2}\,a_{y1})^{3}(a_{x1}\,c_{y2}-a_{y1}\,c_{x2})^{2}(b_{x1}\,c_{y1}-b_{y1}\,c_{x1}) - 72\,(a_{x1}\,a_{y2}-a_{x2}\,a_{y1})\,(a_{x1}\,b_{y1}-a_{y1}\,b_{x1})\,(a_{x1}\,b_{y2}-a_{y2}\,a_{y1})^{2}(a_{x1}\,a_{y2}-a_{y2}\,a_{y1})^{2}(a_{x1}\,a_{y2}-a_{y1}\,a_{y1})^{2}(a_{x1}\,a_{y1}-a_{y1}\,a_{y1})^{2}(a_{x1}\,a_{y2}-a_{y1}\,a_{y1})^{2}(a_{x1}\,a_{y2}-a_{y1}\,a_{y1})^{2}(a_{x1}\,a_{y2}-a_{y1}\,a_{y1})^{2}(a_{x1}\,a_{y1}-a_$ $(a_{x1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x2} b_{y2} - a_{y2} b_{x2}) + 60 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} c_{x2}) (a_{y1} b_{y2} - a_{y2} b_{y2}) + 60 (a_{y1} a_{y2} - a_{y2} a_{y1})^2 (a_{y1} b_{y1} - a_{y2} a_{y1})^2 (a_{y1} b_{y2} - a_{y2} a_{y2})^2 (a_{y2} a_{y2} - a_{y2} a_{y2})^2 (a_{y2} a_{y2} - a_{y2} a_{y2})^2 (a_{y2} a_{y2} - a_{y2} a_{y2} a_{y2})^2 (a_{y2} a_{y2} - a_{y2} a_{y2} a_{y2} a_{y2} a_{y2})^2 (a_{y2} a_{y2} a$ $(a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) + 24 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} c_{y2} - a_{y1} b_{x2})^2 (a_{y2} c_{y1} - a_{y2} c_{y1}) + 24 (a_{y2} a_{y2} - a_{y2} a_{y1})^2 (a_{y2} a_{y2} - a_{y1} b_{y2})^2 (a_{y2} c_{y1} - a_{y2} a_{y1})^2 (a_{y2} a_{y1} - a_{y2} a_{y1})^2 (a_{y2} c_{y1} - a_{y2} a_{y1} a_{y2})^2 (a_{y2} c_{y1} - a_{y2} a_{y1} a_{y2} a_{y1} a_{y2})^2 (a_{y2} c_{y1} - a_{y2} a_{y1} a_{y2} a_$ $(a_{y1} c_{x2}) (b_{x1} c_{y1} - b_{y1} c_{x1}) + 24 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x1}) (a_{x$ $(a_{y1} c_{x2}) (a_{x2} c_{y2} - a_{y2} c_{x2}) + 144 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y2} a_{y1})^2 (a_{x2} b_{y2} - a_{y2} b_{x2}) (a_{x2} c_{y2} - a_{y2} a_{y2}) (a_{x2} c_{y2} - a_{y2} a_{y2} a_{y2}) (a_{x2} c_{y2} - a_{y2} a_{y2} a_{y2} a_{y2}) (a_{x2} c_{y2} - a_{y2} a_{y2}$ $(a_{y1} c_{x2}) (b_{y2} c_{x1} - b_{x2} c_{y1}) - 8 (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{y2} c_{x1} - a_{x2} c_{y1}) (a_{x2} b_{y2} - a_{y2} b_{y1}) (a_{y2} c_{x1} - a_{x2} c_{y1}) (a_{y2} c_{x1} - a_{y2} c_{y1}) (a_{y2$ $(a_{u2} b_{x2}) - 8 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{y2} b_{x1} - a_{x2} b_{y1})^3 +$ $16\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)^{3}\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(b_{x1}\,b_{y2}-b_{x2}\,b_{y1}\right)\left(b_{x1}\,d_{y1}-b_{y1}\,d_{x1}\right)-16\left(a_{x1}\,a_{y2}-a_{y2}\,a_{y1}\right)^{3}$ $(a_{x2} a_{y1})^3 (a_{x1} b_{y1} - a_{y1} b_{x1}) (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) + 24 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{y1}) (a_{y1} a_{y2} - a_{y1} a_{y1})^2 (a_{y1} a_{y2} - a_{y1} a_{y1})^2 (a_{y1} a_{y1} - a_{y1} a_{y1} - a_{y1} a_{y1})^2 (a_{y1} a_{y1} - a_{y1} a_{y1} - a_{y1} a_{y1})^2 (a_{y1} a_{y1} - a_{y1} a_{y1} - a_{y1} a_{y1} a_{y1})^2 (a_{y1} a_{y1} - a_{y1} a_{y1} a_{y1} - a_{y1} a_{y$ $(a_{y1} b_{x1})^2 (a_{y2} d_{x1} - a_{x2} d_{y1}) (b_{x1} b_{y2} - b_{x2} b_{y1}) + 24 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x2} d_{y2} - a_{y1} b_{y1})^2 (a_{y1} b_{y1} - a_{y1} b_{y1})^2 (a_{y2} d_{y1} - a_{y1} b_{y1} - a_{y1}$ $(a_{y2} d_{x2}) (b_{x1} b_{y2} - b_{x2} b_{y1}) + 24 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{y2} b_{x1} - a_{y1} b_{x2}) (a_{y2} b_{y2} - a_{y1} b_{y2}) (a_{y2} b_{y2} - a_{y2} b_{y2}) (a_{y$ $(a_{x2} b_{y1}) (b_{x1} d_{y1} - b_{y1} d_{x1}) - 24 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{y2} b_{x1} - a_{y1} b_{x2}) (a_{y2} b_{x1} - a_{y1} b_{x2}) (a_{y2} b_{x1} - a_{y2} b_{x2}) (a_{y2} b_{x1} - a_{y2} b_{x2}) (a_{y2} b_{x1} - a_{y2} b_{x2}) (a_{y2} b_{x2} - a_{y2} b_{x2}) (a_{y$ $(a_{x2} b_{y1}) (b_{x1} d_{y2} - b_{y1} d_{x2}) - 12 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{y2} d_{x1} - a_{x2} d_{y1}) (a_{x2} b_{y2} - a_{y2} a_{y1}) (a_{x2} b_{y2} - a_{y2} a_{y1}) (a_{y2} d_{y2} - a_{y2} a_{y2}) (a_{y$ $(a_{y2} b_{x2}) - 12 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x2} b_{y2} - a_{y2} b_{x2}) (a_{x2} d_{y2} - a_{y2} d_{x2}) - 12 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x2} b_{y2} - a_{y2} b_{x2}) (a_{x2} d_{y2} - a_{y2} d_{x2}) - 12 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x2} b_{y2} - a_{y2} b_{x2}) (a_{x2} d_{y2} - a_{y2} d_{x2}) - 12 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} a_{y2} - a_{y1} a_{x2}) (a_{x2} a_{y2} - a_{y2} a_{x2}) - 12 (a_{x2} a_{y2} - a_{y2} a_{y2}) (a_{x2} a_{y2} - a_{y2} a_{y2}) (a_{x2} a_{y2} - a_{y2} a_{y2}) - 12 (a_{x2} a_{y2} - a_{y2} a_{y2}) (a_{x2} a_{y2} - a_{y2} a_{y2} a_{y2}) (a_{x2} a_{y2} - a_{y2} a_{y2} a_{y2} - a_{y2} a_{y2} a_{y2}) (a_{x2} a_{y2} - a_{y2} a_$ $2(a_{x1}a_{y2}-a_{x2}a_{y1})^3(a_{x1}b_{y1}-a_{y1}b_{x1})(b_{x1}c_{y2}-b_{y1}c_{x2})^2-16(a_{x1}a_{y2}-a_{x2}a_{y1})(a_{x1}b_{y1}-a_{y2}a_{y2})^2$ $(a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1})^2 (b_{y2} c_{x1} - b_{x2} c_{y1}) + 6 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y2} - a_{y1} a_{y1})^2 (a_{y1} a_{y1} a_{y1}$ $(a_{y1} c_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{x2} c_{y2} - a_{y2} c_{x2}) + 6 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{y2} b_{x1} - a_{y2} b_{x1})^2$ $(a_{x2} b_{y1})^2 (a_{x2} b_{y2} - a_{y2} b_{x2}) - 18 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{y2} b_{x1} - a_{y2} b_{x2}) - 18 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{y2} b_{x1} - a_{y2} b_{x2}) - 18 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x2} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{y2} b_{x1} - a_{y2} b_{x2}) - 18 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x2} b_{y1} - a_{y1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{y2} b_{x1} - a_{y1} b_{x1}) (a_{x2} a_{y2} - a_{y1} a_{y2}) (a_{y2} a_{y2} - a_{y2} a_{y2} a_{y2}) (a_{y2} a_{y2} - a_{y2} a_{y2} a_{y2} a_{y2}) (a_{y2} a_{y2} - a_{y2} a_{y2} a_{y2} a_{y2}) (a_{y2} a_{$ $(a_{x2} b_{y1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) - 24 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x2} b_{y2} - a_{y2} b_{x2}) (b_{x2} c_{y2} - a_{y2} b_{x2}) (a_{x2} b_{y2} - a_{y2} b_{x2}) (a_{x$ $(b_{y2} c_{x2}) + 4 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x2} b_{y2} - a_{y2} b_{x2}) (b_{x1} b_{y2} - b_{x2} b_{y1}) +$ $12\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)^{2}\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(b_{x1}\,b_{y2}-b_{x2}\,b_{y1}\right)\left(b_{x2}\,c_{y2}-b_{y2}\,c_{x2}\right)-10\left(a_{x1}\,a_{y2}-a_{y2}\,a_{y1}\right)^{2}$ $a_{x2} a_{y1}$) $(a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (b_{x1} b_{y2} - b_{x2} b_{y1})^2 - 6 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{y2})^2$ $(a_{u1} b_{x2})^2 (a_{x1} c_{u2} - a_{u1} c_{x2}) (a_{u2} b_{x1} - a_{x2} b_{u1})^2 - 8 (a_{x1} a_{u2} - a_{x2} a_{u1})^3 (a_{x1} c_{u1} - a_{u1} c_{x1}) (b_{x1} b_{u2} - a_{u2} a_{u1})^3$ $(b_{x2} b_{y1}) (b_{x1} c_{y1} - b_{y1} c_{x1}) - 36 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{y2} b_{x1} - a_{y1}$ $a_{x2}\,b_{y1})\,(b_{x1}\,c_{y2}-b_{y1}\,c_{x2})+12\,(a_{x1}\,a_{y2}-a_{x2}\,a_{y1})^2\,(a_{x1}\,c_{y1}-a_{y1}\,c_{x1})^2\,(a_{y2}\,b_{x1}-a_{x2}\,b_{y1})\,(b_{x1}\,b_{y2}-a_{y2}\,a_{y1})^2\,(a_{y2}\,b_{y1}-a_{y2}\,b_{y1})\,(a_{y2}\,b_{y1}-a_{y2}\,b_{y1}-a_{y2}\,b_{y1})\,(a_{y2}\,b_{y1}-a_{y2}\,b_{y1}-a_{y2}\,b_{y1})\,(a_{y2}\,b_{y1}-a_{y2}\,b_{y1}-a_{y2}\,b_{y1}-a_{y2}\,b_{y1})\,(a_{y2}\,b_{y1}-a_{y2}\,b_{y$ $(b_{x2}\,b_{y1}) - 18\,(a_{x1}\,a_{y2} - a_{x2}\,a_{y1})^2\,(a_{x1}\,b_{y1} - a_{y1}\,b_{x1})\,(a_{x1}\,c_{y2} - a_{y1}\,c_{x2})\,(b_{x1}\,b_{y2} - b_{x2}\,b_{y1})^2 +$ $18\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)\left(a_{y2}\,c_{x1}-a_{x2}\,c_{y1}\right)^{2}+6\left(a_{x1}\,a_{y2}-a_{y1}\,b_{x2}\right)^{2}$ $(a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) (b_{y2} c_{x1} - b_{x2} c_{y1})$

 $c_{12} = 15 \left(a_{x1} \, a_{y2} - a_{x2} \, a_{y1}\right)^4 \left(a_{x1} \, d_{y1} - a_{y1} \, d_{x1}\right)^2 - 30 \left(a_{x1} \, a_{y2} - a_{x2} \, a_{y1}\right)^4 \left(a_{x1} \, d_{y1} - a_{y1} \, d_{x1}\right) \left(a_{x1} \, d_{y2} - a_{y1} \, d_{x2}\right) + \left(a_{x1} \, b_{y2} - a_{y1} \, b_{x2}\right)^6 + \left(a_{x1} \, b_{y1} - a_{y1} \, b_{x1}\right)^2 \left(a_{y2} \, b_{x1} - a_{x2} \, b_{y1}\right)^4 + 15 \left(a_{x1} \, a_{y2} - a_{x2} \, a_{y1}\right)^4 \left(a_{x1} \, d_{y2} - a_{y1} \, d_{x2}\right)^2 + 20 \left(a_{x1} \, a_{y2} - a_{x2} \, a_{y1}\right)^3 \left(a_{x1} \, c_{y2} - a_{y1} \, c_{x2}\right)^3 + 30 \left(a_{x1} \, a_{y2} - a_{x2} \, a_{y1}\right) \left(a_{x1} \, b_{y2} - a_{y1} \, b_{x2}\right)^4 \left(a_{x1} \, c_{y2} - a_{y1} \, d_{x1}\right) + 60 \left(a_{x1} \, a_{y2} - a_{x2} \, a_{y1}\right)^2 \left(a_{x1} \, b_{y2} - a_{y1} \, b_{x2}\right)^3 \left(a_{x1} \, d_{y1} - a_{y1} \, d_{x1}\right) + 60 \left(a_{x1} \, a_{y2} - a_{x2} \, a_{y1}\right)^2 \left(a_{x1} \, b_{y2} - a_{y1} \, b_{x2}\right)^2 - a_{y1} \, b_{x2}\right)^3 \left(a_{x1} \, d_{y2} - a_{y1} \, d_{x2}\right) + 90 \left(a_{x1} \, a_{y2} - a_{x2} \, a_{y1}\right)^2 \left(a_{x1} \, b_{y2} - a_{y1} \, b_{x2}\right)^2 \left(a_{x1} \, c_{y2} - a_{y1} \, c_{x2}\right)^2 - 120 \left(a_{x1} \, a_{y2} - a_{x2} \, a_{y1}\right)^3 \left(a_{x1} \, b_{y2} - a_{y1} \, b_{x2}\right) \left(a_{x1} \, c_{y2} - a_{y1} \, c_{x2}\right) \left(a_{x1} \, d_{y1} - a_{y1} \, d_{x1}\right) + 120 \left(a_{x1} \, a_{y2} - a_{y2} \, a_{y1} \, d_{x2}\right)$

 $(a_{x2} a_{y1})^3 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} d_{y2} - a_{y1} d_{x2}) + 3 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x2}) (a_{y1} a_{y2} - a_{y1} a_{y1})^2 (a_{y1} a_{y2} - a_{y1} a_{y1})^2 (a_{y1} a_{y2} - a_{y1} a_{y1})^2 (a_{y1} a_{y1} - a_{y1} a_{y1} - a_{y1} a_{y1})^2 (a_{y1} a_{y1} - a_{y1} a_{y1} - a_{y1} a_{y1})^2 (a_{y1} a_{y1} - a_{y1} a_{y1} - a_{y1} a_{y1} a_{y1})^2 (a_{y1} a_{y1} - a_{y1} a_{y1} a_{y1} - a_{y1} a_{y1}$ $a_{y1} b_{x1})^2 (a_{y2} c_{x1} - a_{x2} c_{y1})^2 + 20 (a_{x1} a_{y2} - a_{x2} a_{y1})^4 (a_{x1} d_{y1} - a_{y1} d_{x1}) (b_{x1} c_{y1} - b_{y1} c_{x1}) +$ $4 \left(a_{x1} \, a_{y2} - a_{x2} \, a_{y1}\right)^4 \left(a_{x1} \, d_{y2} - a_{y1} \, d_{x2}\right) \left(b_{x1} \, c_{y1} - b_{y1} \, c_{x1}\right) - 30 \left(a_{x1} \, a_{y2} - a_{x2} \, a_{y1}\right)^4 \left(a_{x1} \, c_{y1} - a_{y2} \, a_{y2}\right)^4 + 30 \left(a_{x1} \, a_{y2} - a_{y2} \, a_{y2}\right$ $(a_{u1} c_{x1}) (b_{x1} d_{u1} - b_{u1} d_{x1}) + 6 (a_{x1} a_{u2} - a_{x2} a_{u1})^4 (a_{x1} c_{u1} - a_{u1} c_{x1}) (b_{x1} d_{u2} - b_{u1} d_{x2}) - (a_{x1} a_{u2} - a_{u2} a_{u1})^4 (a_{x1} c_{u1} - a_{u1} c_{x1}) (b_{x1} d_{u2} - b_{u1} d_{x2}) - (a_{x1} a_{u2} - a_{u2} a_{u1})^4 (a_{x1} c_{u1} - a_{u1} c_{x1}) (b_{x1} d_{u2} - b_{u1} d_{x2}) - (a_{x1} a_{u2} - a_{u2} a_{u1})^4 (a_{x1} a_{u2} - a_{u1} c_{x1}) (a_{x1} a_{u2} - a_{u2} a_{u1})^4 (a_{x2} a_{u2} - a_{u2} a_{u1})^4 (a_{x2} a_{u2} - a_{u2} a_{u2}) (a_{x2} a_{u2} - a_{u2$ $24\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)^{3}\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,c_{y1}-a_{y1}\,c_{x1}\right)\left(a_{y2}\,d_{x1}-a_{x2}\,d_{y1}\right)+24\left(a_{x1}\,a_{y2}-a_{y1}\,a_{y1}\,a_{y2}-a_{y1}\,a_{y1}\,a_{y2}\right)$ $(a_{x2} a_{v1})^3 (a_{x1} b_{v1} - a_{v1} b_{x1}) (a_{x1} d_{v2} - a_{v1} d_{x2}) (a_{v2} c_{x1} - a_{x2} c_{v1}) + 2 (a_{x1} a_{v2} - a_{x2} a_{v1})^3 (a_{x1} c_{v1} - a_{v2} a_{v1})^3 (a_{x1} a_{v2} - a_{v2} a_{v1})^3 (a_{x2} a_{v2} - a_{v2} a_{v2} a_{v1})^3 (a_{x2} a_{v2} - a_{v2} a_{v2$ $(a_{y1} c_{x1})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) + 40 (a_{x1} a_{y2} - a_{x2} a_{y1})^3 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (b_{x1} c_{y2} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x2}) (a_$ $(b_{y1} c_{x2}) + 20 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2})^3 (b_{x1} c_{y1} - b_{y1} c_{x1}) + 24 (a_{x1} a_{y2} - a_{x2} a_{y1})^3 (a_{x1} b_{y1} - a_{y1} b_{x2})^3 (a_{x1} b_{y2} - a_{y1} b_{x2})^3 (a_{x1} b_{y1} - a_{y1} b_{x2})^3 (a_{x1} a_{y2} - a_{x2} a_{y1})^3 (a_{x1} b_{y1} - a_{y2} a_{y1})^3 (a_{x1} b_{y2} - a_{y1} a_{y2} a_{y1})^3 (a_{x1} a_{y2} - a_{y1} a_{y1} a_{y2} a_{y1} a_{y1} a_{y2} a_{y1} a_{y1} a_{y1} a_{y2} a_{y1} a_{y1} a_{y1} a_{y2} a_{y1} a_{y1} a_{y1} a_{y1} a_{y1} a_{y2} a_{y1} a_{y$ $(a_{x1} b_{x1}) (a_{x1} c_{y2} - a_{y1} c_{x2}) (b_{y2} c_{x1} - b_{x2} c_{y1}) + 60 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x1}) (a_{x$ $(a_{y1} b_{x2})^2 (b_{y2} c_{x1} - b_{x2} c_{y1}) + 56 (a_{x1} a_{y2} - a_{x2} a_{y1})^3 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (c_{x1} c_{y2} - a_{y1} b_{x2}) (c_$ $(a_{x2} c_{y1}) - 24 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2})^2 (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x2} b_{y2} - a_{y1} b_{x2})^2$ $(a_{y2} b_{x2}) - 72 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x2} c_{y2} - a_{y1} b_{x2}) (a_{x1} c_{y1} - a_{y1} c_{x1}) (a_{x2} c_{y2} - a_{y1} c_{x1}) (a_{x$ $(a_{u2} c_{x2}) + 6 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1}) (a_{x2} d_{y2} - a_{y2} d_{x2}) - a_{y2} d_{y2}$ $10\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)^{3}\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{y2}\,b_{x1}-a_{x2}\,b_{y1}\right)\left(b_{x1}\,d_{y2}-b_{y1}\,d_{x2}\right)+6\left(a_{x1}\,a_{y2}-a_{y1}\,b_{x1}\right)\left(a_{y2}\,b_{y1}-a_{y2}\,b_{y1}\right)\left(a_{y2}\,b_{y1}-a_{y2}\,b_{y1}\right)$ $(a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} d_{y1} - a_{y1} d_{x1}) (a_{y2} b_{x1} - a_{x2} b_{y1})^2 - 2 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{y1})^2$ $(a_{y1} b_{x2})^3 (a_{y2} b_{x1} - a_{x2} b_{y1})^2 + 4 (a_{x1} a_{y2} - a_{x2} a_{y1})^3 (a_{x1} b_{y1} - a_{y1} b_{x1}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} d_{y1} - a_{y1} b_{x1}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (a$ $(b_{y1} d_{x1}) - 6 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{x2} b_{y2} - a_{y2} b_{x2}) (b_{x1} b_{y2} - a_{y2} b_{x3}) (a_{x2} b_{y3} - a_{y3} b_{x3}) (a_{x3} b_{y3} - a_{y3} b_{x3}) (a_{x4} b_{y3} - a_{y3} b_{x3}) (a_{x4$ $(b_{x2} b_{y1}) - 6 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) - 6 (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y1} b_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) - 6 (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y1} b_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) - 6 (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y1} b_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) - 6 (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y1} b_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) - 6 (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y1} b_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{x2} b_{y1})^2 (a_{y2} c_{x1} - a_{x2} c_{y1}) - 6 (a_{y1} a_{y2} - a_{y2} a_{y1}) (a_{y1} b_{y1} - a_{y1} b_{x1})^2 (a_{y2} b_{x1} - a_{y2} b_{y1})^2 (a_{y2} c_{x1} - a_{x2} c_{y1})$ $18\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{x1}\,b_{y2}-a_{y1}\,b_{x2}\right)^{2}\left(a_{y2}\,b_{x1}-a_{x2}\,b_{y1}\right)\left(b_{x1}\,b_{y2}-b_{x2}\,b_{y1}\right) 2\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)^{2}\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)\left(a_{y2}\,b_{x1}-a_{x2}\,b_{y1}\right)^{2}\left(b_{x1}\,c_{y1}-b_{y1}\,c_{x1}\right)-16\left(a_{x1}\,a_{y2}-a_{y2}\,b_{y1}\right)^{2}$ $(a_{x2} a_{y1})^3 (a_{x1} b_{y1} - a_{y1} b_{x1}) (b_{x1} b_{y2} - b_{x2} b_{y1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) - 3 (a_{x1} a_{y2} - a_{x2} a_{y1})^4 (b_{x1} c_{y1} - a_{y1} b_{x1}) (b_{x1} b_{y2} - b_{x2} b_{y1}) (a_{x1} b_{y2} - a_{y1} b_{x1}) (a_{x1} a_{y2} - a_{x2} a_{y1})^4 (b_{x1} c_{y1} - a_{y1} b_{x1}) (a_{x1} a_{y2} - a_{x2} a_{y1})^4 (a_{x1} a_{y2} - a_{x2} a_{y2})^4 (a_{x1} a_{y2} - a_{x2} a_{y2}$ $(b_{y1} c_{x1})^2 + 24 (a_{x1} a_{y2} - a_{x2} a_{y1})^2 (a_{x1} b_{y1} - a_{y1} b_{x1})^2 (a_{x2} c_{y2} - a_{y2} c_{x2}) (b_{x1} b_{y2} - b_{x2} b_{y1}) +$ $6\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)^{2}\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}\left(a_{y2}\,c_{x1}-a_{x2}\,c_{y1}\right)^{2}-24\left(a_{x1}\,a_{y2}-a_{x2}\,a_{y1}\right)^{2}\left(a_{x1}\,b_{y1}-a_{y1}\,b_{x1}\right)^{2}$ $(a_{y1} b_{x1}) (a_{x1} b_{y2} - a_{y1} b_{x2}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} c_{y2} - b_{y1} c_{x2}) + 4 (a_{x1} a_{y2} - a_{x2} a_{y1})^3 (a_{x1} c_{y1} - a_{y2} a_{y1})^3 (a_{y1} c_{y2} - a_{y1} a_{y2} a_{y1})^3 (a_{y1} c_{y2} - a_{y1} a_{y2} a_{y1})^3 (a_{y1} c_{y1} - a_{y1} a_{y2} a_{y1} a_{y1} a_{y2} a_{y1} a_{y$ $(a_{y1} c_{x1}) (a_{y2} b_{x1} - a_{x2} b_{y1}) (b_{x1} c_{y1} - b_{y1} c_{x1}) - 12 (a_{x1} a_{y2} - a_{x2} a_{y1}) (a_{x1} b_{y1} - a_{y1} b_{x1})^3 (a_{x2} b_{y2} - a_{y1} b_{y1}) (a_{y1} c_{y1} - a_{y1} c_{y1}) (a_{y2} c_{y1} - a_{y1} c_{y1}) (a_{y1} c_{y1} - a_{y1} c_{y1}) (a_{y2} c_{y1} - a_{y1} c_{y1}) (a_{y1} c_{y1} - a_{y1} c_{y1}) (a_{y2} c_{y1} - a_{y1} c_{y1}) (a_{y1} c_{y1} - a_{y1} c_{y1}) (a_{y2} c_{y1} - a_{y1} c_{y1}) (a_{y1} c_{y1} - a_{y1} c_{y1}) (a_{y$ $(a_{y2} b_{x2}) (a_{x2} c_{y2} - a_{y2} c_{x2})$

 $c_{13} = -30 \left(a_{x1} \, a_{y2} - a_{x2} \, a_{y1}\right)^4 \left(a_{x1} \, c_{y2} - a_{y1} \, c_{x2}\right) \left(a_{x1} \, d_{y1} - a_{y1} \, d_{x1}\right) - 60 \left(a_{x1} \, a_{y2} - a_{x2} \, a_{y1}\right)^3 \left(a_{x1} \, b_{y2} - a_{y1} \, b_{x2}\right)^2 \left(a_{x1} \, d_{y1} - a_{y1} \, d_{x1}\right) + 6 \left(a_{x1} \, a_{y2} - a_{x2} \, a_{y1}\right) \left(a_{x1} \, b_{y2} - a_{y1} \, b_{x2}\right)^5 + 30 \left(a_{x1} \, a_{y2} - a_{x2} \, a_{y1}\right)^4 \left(a_{x1} \, c_{y2} - a_{y1} \, d_{x2}\right) + 60 \left(a_{x1} \, a_{y2} - a_{x2} \, a_{y1}\right)^3 \left(a_{x1} \, b_{y2} - a_{y1} \, b_{x2}\right)^2 \left(a_{x1} \, d_{y2} - a_{y1} \, d_{x2}\right) + 60 \left(a_{x1} \, a_{y2} - a_{x2} \, a_{y1}\right)^3 \left(a_{x1} \, b_{y2} - a_{y1} \, b_{x2}\right)^2 + 60 \left(a_{x1} \, a_{y2} - a_{x2} \, a_{y1}\right)^2 \left(a_{x1} \, b_{y2} - a_{y1} \, d_{x2}\right) + 60 \left(a_{x1} \, a_{y2} - a_{x2} \, a_{y1}\right)^4 \left(a_{x1} \, c_{y2} - a_{y1} \, c_{x2}\right) + 60 \left(a_{x1} \, a_{y2} - a_{x2} \, a_{y1}\right)^4 \left(a_{x1} \, c_{y2} - a_{y1} \, c_{x2}\right) + 60 \left(a_{x1} \, a_{y2} - a_{x2} \, a_{y1}\right)^4 \left(a_{x1} \, c_{y2} - a_{y1} \, c_{x2}\right) \left(b_{x1} \, c_{y1} - b_{y1} \, c_{x1}\right) + 20 \left(a_{x1} \, a_{y2} - a_{x2} \, a_{y1}\right)^3 \left(a_{x1} \, b_{y2} - a_{y1} \, b_{x2}\right)^2 \left(b_{x1} \, c_{y1} - b_{y1} \, c_{x1}\right) + 6 \left(a_{x1} \, a_{y2} - a_{x2} \, a_{y1}\right)^4 \left(a_{x1} \, c_{y1} - a_{y1} \, b_{x1}\right) \left(a_{x1} \, b_{y2} - a_{y1} \, b_{x2}\right)^2 \left(a_{y2} \, c_{x1} - a_{y1} \, c_{x1}\right) + 24 \left(a_{x1} \, a_{y2} - a_{x2} \, a_{y1}\right)^3 \left(a_{x1} \, b_{y1} - a_{y1} \, b_{x1}\right) \left(a_{x1} \, b_{y1} - a_{y1} \, b_{x1}\right) \left(a_{x1} \, b_{y2} - a_{y1} \, c_{x2}\right) \left(a_{y2} \, c_{x1} - a_{x2} \, c_{y1}\right) + 24 \left(a_{x1} \, a_{y2} - a_{x2} \, a_{y1}\right)^3 \left(a_{x1} \, b_{y1} - a_{y1} \, b_{x1}\right) \left(a_{x1} \, b_{y2} - a_{y1} \, b_{x2}\right) \left(a_{x1} \, c_{y1} - a_{y1} \, c_{x1}\right) \left(a_{x2} \, b_{y2} - a_{y2} \, b_{x2}\right) - 2 \left(a_{x1} \, a_{y2} - a_{x2} \, a_{y1}\right)^3 \left(a_{x1} \, b_{y1} - a_{y1} \, b_{x1}\right) \left(a_{x1} \, b_{y2} - a_{y2} \, b_{x2}\right) \left(a_{x1} \, c_{y1} - a_{y1} \, c_{x1}\right) \left(a_{x2} \, b_{y2} - a_{y2} \, b_{x2}\right) - 2 \left(a_{x1} \, a_{y2} - a_{x2} \, a_{y1}\right)^3 \left(a_{x1} \, b_{y1} - a_{y1} \, b_{x1}\right) \left(a_{x1} \, b_{y2} - a_{y2} \, a_{y2}\right) \left(a_{x1} \, b_{y1} - a_{y1} \, b_{x1}\right) \left(a_{x2} \, b_{y2}$

```
c_{14} = -30 \left( a_{x1} \, a_{y2} - a_{x2} \, a_{y1} \right)^4 \left( a_{x1} \, b_{y2} - a_{y1} \, b_{x2} \right) \left( a_{x1} \, d_{y1} - a_{y1} \, d_{x1} \right) + 30 \left( a_{x1} \, a_{y2} - a_{x2} \, a_{y1} \right)^4 \left( a_{x1} \, b_{y2} - a_{y1} \, b_{x2} \right) \left( a_{x1} \, d_{y2} - a_{y1} \, d_{x2} \right) + 15 \left( a_{x1} \, a_{y2} - a_{x2} \, a_{y1} \right)^4 \left( a_{x1} \, b_{y2} - a_{y1} \, c_{x2} \right)^2 + 15 \left( a_{x1} \, a_{y2} - a_{x2} \, a_{y1} \right)^2 \left( a_{x1} \, b_{y2} - a_{y1} \, c_{x2} \right)^2 + 15 \left( a_{x1} \, a_{y2} - a_{x2} \, a_{y1} \right)^2 \left( a_{x1} \, b_{y2} - a_{y1} \, c_{x2} \right)^2 + 15 \left( a_{x1} \, a_{y2} - a_{x2} \, a_{y1} \right)^4 \left( a_{x1} \, b_{y2} - a_{y1} \, b_{x2} \right)^2 \left( a_{x1} \, c_{y2} - a_{y1} \, c_{x2} \right) + 6 \left( a_{x1} \, a_{y2} - a_{x2} \, a_{y1} \right)^4 \left( a_{x1} \, c_{y1} - a_{y1} \, c_{x1} \right) + 24 \left( a_{x1} \, a_{y2} - a_{x2} \, a_{y1} \right)^4 \left( a_{x1} \, b_{y2} - a_{y1} \, b_{x2} \right) \left( b_{x1} \, c_{y1} - b_{y1} \, c_{x1} \right) + 24 \left( a_{x1} \, a_{y2} - a_{x2} \, a_{y1} \right)^3 \left( a_{x1} \, b_{y1} - a_{y1} \, b_{x1} \right) \left( a_{x1} \, b_{y2} - a_{x2} \, a_{y1} \right)^4 \left( a_{x1} \, b_{y2} - a_{y2} \, b_{x2} \right) + 6 \left( a_{x1} \, a_{y2} - a_{x2} \, a_{y1} \right)^2 \left( a_{x1} \, b_{y1} - a_{y1} \, b_{x1} \right) \left( a_{x1} \, b_{y2} - a_{y2} \, b_{x2} \right) - 10 \left( a_{x1} \, a_{y2} - a_{x2} \, a_{y1} \right)^3 \left( a_{x1} \, b_{y1} - a_{y1} \, b_{x1} \right) \left( a_{y2} \, b_{x1} - a_{x2} \, b_{y1} \right) \left( a_{x2} \, b_{y2} - a_{y2} \, b_{x2} \right) - 10 \left( a_{x1} \, a_{y2} - a_{x2} \, a_{y1} \right)^3 \left( a_{x1} \, b_{y1} - a_{y1} \, b_{x1} \right) \left( a_{y2} \, b_{x1} - a_{x2} \, b_{y1} \right) \left( b_{x1} \, b_{y2} - a_{x2} \, b_{y1} \right) \right) \left( a_{x1} \, d_{y1} - a_{y1} \, d_{x1} \right) + 6 \left( a_{x1} \, a_{y2} - a_{x2} \, a_{y1} \right)^5 \left( a_{x1} \, d_{y2} - a_{y1} \, d_{x2} \right) + 2 \left( a_{x1} \, a_{y2} - a_{x2} \, a_{y1} \right)^5 \left( a_{x1} \, d_{y1} - a_{y1} \, b_{x1} \right) \left( a_{x1} \, a_{y2} - a_{x2} \, a_{y1} \right)^5 \left( a_{x1} \, d_{y2} - a_{y1} \, b_{x2} \right) + 2 \left( a_{x1} \, a_{y2} - a_{x2} \, a_{y1} \right)^5 \left( a_{x1} \, d_{y2} - a_{y1} \, b_{x2} \right) + 2 \left( a_{x1} \, a_{y2} - a_{x2} \, a_{y1} \right)^5 \left( a_{x1} \, c_{y2} - a_{y1} \, b_{x2} \right) + 15 \left( a_{x1} \, a_{y2} - a_{x2} \, a_{y1} \right)^4 \left( a_{x1} \, b_{y2} - a_{y1}
```

5 Analysis

The previous sections outlined the math involved in determining the polynomial equation used to identify where two cubic parametric curves intersect. This section discusses that derivation and its implications.

The original intention of this project was to find a fast/simple method to identify where curves intersected. This project failed in this respect, because the result is very impractical. There are much faster ways to numerically approximate where two curves intersect than to resolve such a complex polynomial with potentially huge exponents. Also large exponents can lead to significant machine error when cast into IEEE double precision. Or alternatively: performance degrades sharply if we use classes like the BigDecimal to maintain several significant digits.

Meanwhile one of the peculiar successes of this project was identifying the fractional cubic root elimination transform. Maybe this is well-known to some readers, but it was a novel discovery for me when I first stumbled across it. It's trivial to apply a similar trick to square roots, and so it follows that if you apply it twice consecutively you can resolve quartic roots. Also you could combine this cubic root transform with a square root transform to resolve sextic roots. You could even combine two cubic transforms to make a (very hairy) transform for 9th degree roots. This raises the question: if we can transform 9th degree roots, what about simpler cases like 5th degree or 7th degree roots? Are they impossible because they are relatively prime, or are they just very hard to identify? If I were to continue investing time and energy in this direction: I would love to try to numerically (in a brute-force approach) explore this question.

This paper omits how exactly I factored this equation into the coefficients listed in the previous section. The reason for this omission is: I can't find my notes on this subject. (I actually completed this project a few years ago, and this writeup is long overdue.) So I wrote down what the factored coefficients are, and I confirmed that these figures are correct for this paper—but I don't know exactly how to derive them. But one thing that immediately jumps out at me is: this looks like the result of a matrix transformation. I wonder if I invested more time in factoring this if I would find an even simpler expression? One that either involves matrices or squaring a 9th degree polynomial?

There is also the sticky question: why, philosophically, should this be an 18th degree polynomial? (That is: why so many roots?) For comparison: if you study the intersection of two quadratic parametric curves you'll get a 4th degree polynomial. 4 roots makes sense, because if you imagine two curves (one shaped like the letter C and a copy of that shape rotated 90 degrees), then it's easy to see where they intersect in 4 places. But should two cubic curves have 18 intersections? I initially justified the 18th degree away because we could graphically identify up to 9 solutions, but the polynomial has to have an even degree

to account for the possibility of zero solutions. (So what is the smallest multiple of 9 that is even? 18.) But now I believe that explanation is inadequate. Instead if you look at how the equations unravelled mathematically: I think the solution to two n-degree curves is going to be n*(n!). So 1 maps to 1, 2 maps to 4, 3 maps to 18, and 4 will map to 96. But this question might be better understood if there are more complete ways to factor this particular equation. If this equation is, for example, two 9th-degree equations multiplied together, then that raises a whole new set of fascinating questions and may simplify how to identify roots.

Considering how this equation was derived, it is not surprising that this equation cannot identify t values where a cubic parametric curve intersects itself. If we set $a_{x2} = a_{x1}$, $b_{x2} = b_{x1}$, $c_{x2} = c_{x1}$, etc then the resulting equation is simply zero. But what did surprise me is the realization that every cluster of variables contains an a term that cannot be factored out. For some reason I instinctively (and mistakenly) expected to be able to set all the a terms to zero and end up with a quadratic-quadratic solution.

This project did not yield the desired results, but I still wanted to share them in case someone finds it useful or insightful. The computer program (including the source code) used to write sections 3 and 4 is available here:

https://javagraphics.java.net/jars/CubicPaper.jar