In[1]:=
```
<< RationalGeometry`
dists = {};
For[k = 1, k ≤ 99, k++,
 For循环
    name1 = StringJoin["X", ToString[k]];
            连接字符串        转换为字符串
    For[j = k + 1, j ≤ 100, j++,
    For循环
        name2 = StringJoin["X", ToString[j]];
                连接字符串        转换为字符串
        dist = CenterDistX[name1, name2];
        item = {name1, CenterNameToBarycentricCoordsMap[name1][[3]],
     name2, CenterNameToBarycentricCoordsMap[name2][[3]], dist};
        Print[item];
        打印
        AppendTo[dists, item];
        附加
    ];
];
```

$\left\{X1, \text{INCENTER}, X2, \text{CENTROID}, \frac{1}{9}\left(l^2+5r^2-16rR\right)\right\}$

$\{X1, \text{INCENTER}, X3, \text{CIRCUMCENTER}, -(2r-R)R\}$

$\left\{X1, \text{INCENTER}, X4, \text{ORTHOCENTER}, -l^2+3r^2+4rR+4R^2\right\}$

$\left\{X1, \text{INCENTER}, X5, \text{NINE-POINT CENTER}, \frac{1}{4}(2r-R)^2\right\}$

$\left\{X1, \text{INCENTER}, X6, \text{SYMMEDIAN POINT}, \frac{4r^2R\left(l^2r-r^3+l^2R-8r^2R-16rR^2\right)}{\left(l^2-r^2-4rR\right)^2}\right\}$

$\left\{X1, \text{INCENTER}, X7, \text{GERGONNE POINT}, \frac{r^2\left(-3l^2+r^2+8rR+16R^2\right)}{(r+4R)^2}\right\}$

$\left\{X1, \text{INCENTER}, X8, \text{NAGEL POINT}, l^2+5r^2-16rR\right\}$

$\left\{X1, \text{INCENTER}, X9, \text{MITTENPUNKT}, -\frac{4R\left(-l^2r+r^3-l^2R+8r^2R+16rR^2\right)}{(r+4R)^2}\right\}$

$\left\{X1, \text{INCENTER}, X10, \text{SPIEKER CENTER}, \frac{1}{4}\left(l^2+5r^2-16rR\right)\right\}$

$\left\{X1, \text{INCENTER}, X11, \text{FEUERBACH POINT}, r^2\right\}$

$\left\{X1, \text{INCENTER}, X12, \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11), \frac{r^2(2r-R)^2}{(2r+R)^2}\right\}$

$\left\{X1, \text{INCENTER}, X13, \text{FERMAT POINT}, \frac{4r^2\left(-2l^2+2\sqrt{3}\,lr-\sqrt{3}\,lR+3rR+12R^2\right)}{3\left(l^2+2\sqrt{3}\,lr-r^2-4rR\right)}\right\}$

$\left\{X1, \text{INCENTER}, X14, \text{2nd ISOGONIC CENTER}, -\frac{4r^2\left(2l^2+2\sqrt{3}\,lr-\sqrt{3}\,lR-3rR-12R^2\right)}{3\left(l^2-2\sqrt{3}\,lr-r^2-4rR\right)}\right\}$

$\left\{X1, \text{INCENTER}, X15, \text{1st ISODYNAMIC POINT}, -\frac{4r^2R\left(-\sqrt{3}\,l+r+4R\right)}{-l^2-2\sqrt{3}\,lr+r^2+4rR}\right\}$

$\left\{X1, \text{INCENTER}, X16, \text{2nd ISODYNAMIC POINT}, -\frac{4r^2R\left(\sqrt{3}\,l+r+4R\right)}{-l^2+2\sqrt{3}\,lr+r^2+4rR}\right\}$

$$\left\{X1,\ \text{INCENTER},\ X17,\ \text{1st NAPOLEON POINT},\ -\left(\left(12 r^2 \left(-2 l^4+2\sqrt{3}\, l^3 r-18 l^2 r^2+2\sqrt{3}\, l r^3+3\sqrt{3}\, l^3 R+35 l^2 r R-5\sqrt{3}\, l r^2 R+3 r^3 R-4 l^2 R^2-52\sqrt{3}\, l r R^2+24 r^2 R^2+48 r R^3\right)\right)\Big/\left(3 l^2+10\sqrt{3}\, l r-3 r^2-12 r R\right)^2\right)\right\}$$

$$\left\{X1,\ \text{INCENTER},\ X18,\ \text{2nd NAPOLEON POINT},\ \left(12 r^2 \left(2 l^4+2\sqrt{3}\, l^3 r+18 l^2 r^2+2\sqrt{3}\, l r^3+3\sqrt{3}\, l^3 R-35 l^2 r R-5\sqrt{3}\, l r^2 R-3 r^3 R+4 l^2 R^2-52\sqrt{3}\, l r R^2-24 r^2 R^2-48 r R^3\right)\right)\Big/\left(3 l^2-10\sqrt{3}\, l r-3 r^2-12 r R\right)^2\right\}$$

$$\left\{X1,\ \text{INCENTER},\ X19,\ \text{CLAWSON POINT},\ -\frac{4 R \left(3 l^4 r-4 l^2 r^3+r^5+l^4 R-23 l^2 r^2 R+12 r^4 R-32 l^2 r R^2+52 r^3 R^2-4 l^2 R^3+96 r^2 R^3+64 r R^4\right)}{\left(l^2-r^2-6 r R-8 R^2\right)^2}\right\}$$

$$\left\{X1,\ \text{INCENTER},\ X20,\ \text{DE LONGCHAMPS POINT},\ -3 l^2+r^2+8 r R+16 R^2\right\}$$

$$\left\{X1,\ \text{INCENTER},\ X21,\ \text{SCHIFFLER POINT},\ -\frac{R \left(-2 l^2 r+6 r^3-l^2 R+19 r^2 R+16 r R^2\right)}{(2 r+3 R)^2}\right\}$$

$$\left\{X1,\ \text{INCENTER},\ X22,\ \text{ExeterPoint},\ -\frac{R \left(2 l^4 r-4 l^2 r^3+2 r^5-14 l^2 r^2 R+14 r^4 R-10 l^2 r R^2+34 r^3 R^2-l^2 R^3+35 r^2 R^3+16 r R^4\right)}{\left(l^2-r^2-4 r R-3 R^2\right)^2}\right\}$$

$$\left\{X1,\ \text{INCENTER},\ X23,\ \text{FarOutPoint},\ -\frac{R \left(4 l^2 r-4 r^3+l^2 R-11 r^2 R-16 r R^2\right)}{2 l^2-2 r^2-8 r R-9 R^2}\right\}$$

$$\left\{X1,\ \text{INCENTER},\ X24,\ \text{PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE},\ -\frac{R \left(2 l^4 r-4 l^2 r^3+2 r^5-14 l^2 r^2 R+14 r^4 R-18 l^2 r R^2+42 r^3 R^2+l^2 R^3+61 r^2 R^3+36 r R^4-4 R^5\right)}{\left(l^2-r^2-4 r R-5 R^2\right)^2}\right\}$$

$$\left\{X1,\ \text{INCENTER},\ X25,\ \text{HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES},\ -\frac{R \left(2 l^4 r-4 l^2 r^3+2 r^5+l^4 R-14 l^2 r^2 R+13 r^4 R-28 l^2 r R^2+44 r^3 R^2-4 l^2 R^3+76 r^2 R^3+64 r R^4\right)}{\left(l^2-r^2-4 r R-6 R^2\right)^2}\right\}$$

$$\left\{X1,\ \text{INCENTER},\ X26,\ \text{CIRCUMCENTER OF THE TANGENTIAL TRIANGLE},\ -\frac{R \left(2 l^4 r-4 l^2 r^3+2 r^5-14 l^2 r^2 R+14 r^4 R-14 l^2 r R^2+38 r^3 R^2+48 r^2 R^3+24 r R^4-R^5\right)}{(l-r-2 R)^2 (l+r+2 R)^2}\right\}$$

$$\left\{X1,\ \text{INCENTER},\ X27,\ \text{CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER},\ -\left(\left(3 l^6+l^4 r^2-7 l^2 r^4-5 r^6-56 l^2 r^3 R-24 r^5 R-8 l^4 R^2-144 l^2 r^2 R^2+8 r^4 R^2-128 l^2 r R^3+224 r^3 R^3-16 l^2 R^4+432 r^2 R^4+256 r R^5\right)\Big/\left(l^2-3 r^2-12 r R-12 R^2\right)^2\right)\right\}$$

$$\left\{X1,\ \text{INCENTER},\ X28,\ \text{CEVAPOINT OF X(19) AND X(25)},\ -\frac{R \left(3 l^4 r-4 l^2 r^3+r^5+l^4 R-23 l^2 r^2 R+12 r^4 R-32 l^2 r R^2+52 r^3 R^2-4 l^2 R^3+96 r^2 R^3+64 r R^4\right)}{\left(l^2-r^2-5 r R-6 R^2\right)^2}\right\}$$

$$\left\{X1,\ \text{INCENTER},\ X29,\ \text{CEVAPOINT OF INCENTER AND ORTHOCENTER},\ \frac{1}{\left(3 l^2-r^2-8 r R-12 R^2\right)^2}\left(l^6+3 l^4 r^2+3 l^2 r^4+r^6-24 l^4 r R+8 l^2 r^3 R-8 l^4 R^2+80 l^2 r^2 R^2-24 r^4 R^2+160 l^2 r R^3-128 r^3 R^3+16 l^2 R^4-304 r^2 R^4-256 r R^5\right)\right\}$$

$$\left\{X1,\ \text{INCENTER},\ X30,\ \text{EulerInfinityPoint},\ \infty\right\}$$

$$\left\{X1,\ \text{INCENTER},\ X31,\ \text{SecondPowerPoint},\ \frac{4 r^2 R \left(2 l^2 r-6 r^3+l^2 R-19 r^2 R-16 r R^2\right)}{\left(l^2-3 r^2-6 r R\right)^2}\right\}$$

$$\{X1, \text{INCENTER}, X32, \text{ThirdPowerPoint}, \left(4 r^2 R \left(3 l^6 r - 19 l^4 r^3 + 9 l^2 r^5 - r^7 + l^6 R - 46 l^4 r^2 R + 81 l^2 r^4 R - 16 r^6 R - 24 l^4 r R^2 + 216 l^2 r^3 R^2 - 96 r^5 R^2 + 144 l^2 r^2 R^3 - 256 r^4 R^3 - 256 r^3 R^4\right)\right) / \left(\left(l^2 - 2 l r - r^2 - 4 r R\right)^2 \left(l^2 + 2 l r - r^2 - 4 r R\right)^2\right)\}$$

$$\left\{X1, \text{INCENTER}, X33, \text{PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES}, -\frac{4 r^2 R^2 \left(l^2 - 3 r^2 - 4 r R - 4 R^2\right)}{\left(l^2 - r^2 - 2 r R - 4 R^2\right)^2}\right\}$$

$$\left\{X1, \text{INCENTER}, X34, X(4)\text{-BETH CONJUGATE OF } X(4), -\frac{4 r^2 R^2 \left(l^2 - 3 r^2 - 4 r R - 4 R^2\right)}{\left(l^2 - r^2 - 6 r R - 4 R^2\right)^2}\right\}$$

$$\left\{X1, \text{INCENTER}, X35, \{X(1), X(3)\}\text{-HARMONIC CONJUGATE OF } X(36), -\frac{4 r^2 (2 r - R) R}{(2 r + R)^2}\right\}$$

$$\left\{X1, \text{INCENTER}, X36, \text{INVERSE-IN-CIRCUMCIRCLE OF INCENTER}, -\frac{4 r^2 R}{2 r - R}\right\}$$

$$\left\{X1, \text{INCENTER}, X37, \text{CrosspointOfIncenterAndCentroid}, \frac{4 r^2 R \left(l^2 r - r^3 + l^2 R - 8 r^2 R - 16 r R^2\right)}{\left(l^2 + r^2 + 4 r R\right)^2}\right\}$$

$$\left\{X1, \text{INCENTER}, X38, \text{CROSSPOINT OF } X(1) \text{ AND } X(75), \frac{4 r^2 R \left(2 l^2 r - 6 r^3 + l^2 R - 19 r^2 R - 16 r R^2\right)}{\left(l^2 + r^2 - 2 r R\right)^2}\right\}$$

$$\{X1, \text{INCENTER}, X39, \text{BrocardMidpoint}, -\left(\left(4 r^2 R \left(l^6 r + 3 l^4 r^3 + 3 l^2 r^5 + r^7 - l^6 R - 18 l^4 r^2 R + 15 l^2 r^4 R + 16 r^6 R + 24 l^4 r R^2 - 24 l^2 r^3 R^2 + 96 r^5 R^2 - 144 l^2 r^2 R^3 + 256 r^4 R^3 + 256 r^3 R^4\right)\right) / \left(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\right)^2\right)\}$$

$$\{X1, \text{INCENTER}, X40, \text{BEVAN POINT}, -4 (2 r - R) R\}$$

$$\left\{X1, \text{INCENTER}, X41, X(6)\text{-CEVA CONJUGATE OF } X(31), -\frac{4 r^2 R \left(3 l^2 - r^2 - 8 r R - 16 R^2\right) \left(l^2 r - r^3 + l^2 R - 8 r^2 R - 16 r R^2\right)}{\left(3 l^2 r - r^3 + 2 l^2 R - 8 r^2 R - 16 r R^2\right)^2}\right\}$$

$$\left\{X1, \text{INCENTER}, X42, \text{CROSSPOINT OF INCENTER AND SYMMEDIAN POINT}, \frac{4 r^2 R^2 \left(l^2 + 5 r^2 - 16 r R\right)}{\left(l^2 + r^2 - 2 r R\right)^2}\right\}$$

$$\left\{X1, \text{INCENTER}, X43, X(6)\text{-CEVA CONJUGATE OF } X(1), \frac{16 r^2 R^2 \left(l^2 + 5 r^2 - 16 r R\right)}{\left(l^2 + r^2 - 8 r R\right)^2}\right\}$$

$$\left\{X1, \text{INCENTER}, X44, X(6)\text{-LINE CONJUGATE OF } X(1), \frac{36 r^2 R \left(l^2 r - r^3 + l^2 R - 8 r^2 R - 16 r R^2\right)}{\left(l^2 - 3 r^2 - 12 r R\right)^2}\right\}$$

$$\left\{X1, \text{INCENTER}, X45, X(9)\text{-BETH CONJUGATE OF } X(1), \frac{36 r^2 R \left(l^2 r - r^3 + l^2 R - 8 r^2 R - 16 r R^2\right)}{\left(l^2 + 3 r^2 + 12 r R\right)^2}\right\}$$

$$\left\{X1, \text{INCENTER}, X46, X(4)\text{-CEVA CONJUGATE OF } X(1), -\frac{4 r^2 (2 r - R) R}{(r - R)^2}\right\}$$

$$\left\{X1, \text{INCENTER}, X47, X(110)\text{-BETH CONJUGATE OF } X(34), \frac{4 r^2 R \left(2 l^2 r - 6 r^3 + l^2 R - 19 r^2 R - 16 r R^2\right)}{\left(l^2 - 3 r^2 - 6 r R - 2 R^2\right)^2}\right\}$$

$$\left\{X1, \text{INCENTER}, X48, \text{CROSSPOINT OF } X(1) \text{ AND } X(63), -\frac{4 R \left(3 l^4 r - 4 l^2 r^3 + r^5 + l^4 R - 23 l^2 r^2 R + 12 r^4 R - 32 l^2 r R^2 + 52 r^3 R^2 - 4 l^2 R^3 + 96 r^2 R^3 + 64 r R^4\right)}{\left(3 l^2 - r^2 - 6 r R - 8 R^2\right)^2}\right\}$$

$$\left\{X1,\ \text{INCENTER},\ X49,\ \text{CENTER OF SINE-TRIPLE-ANGLE CIRCLE},\ -\frac{1}{\left(2 l^2-2 r^2-8 r R-7 R^2\right)^2} R \left(4 l^4 r-16 l^2 r^3+12 r^5+l^4 R-54 l^2 r^2 R+89 r^4 R-42 l^2 r R^2+230 r^3 R^2-4 l^2 R^3+240 r^2 R^3+86 r R^4-R^5\right)\right\}$$

$$\left\{X1,\ \text{INCENTER},\ X50,\ X(74)\text{-CEVA CONJUGATE OF } X(184),\ \left(4 r^2 R \left(3 l^6 r-19 l^4 r^3+9 l^2 r^5-r^7+l^6 R-46 l^4 r^2 R+81 l^2 r^4 R-16 r^6 R-36 l^4 r R^2+246 l^2 r^3 R^2-102 r^5 R^2-6 l^4 R^3+294 l^2 r^2 R^3-328 r^4 R^3+129 l^2 r R^4-553 r^3 R^4+9 l^2 R^5-456 r^2 R^5-144 r R^6\right)\right) \Big/ \left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-3 l^2 R^2+19 r^2 R^2+12 r R^3\right)^2\right\}$$

$$\left\{X1,\ \text{INCENTER},\ X51,\ \text{CENTROID OF ORTHIC TRIANGLE},\ -\frac{l^4+18 l^2 r^2+r^4-20 l^2 r R-4 r^3 R-4 l^2 R^2-52 r^2 R^2+64 r R^3}{36 R^2}\right\}$$

$$\left\{X1,\ \text{INCENTER},\ X52,\ \text{ORTHOCENTER OF ORTHIC TRIANGLE},\ \frac{l^4-14 l^2 r^2+r^4-4 l^2 r R+12 r^3 R-4 l^2 R^2+36 r^2 R^2+8 r R^3+4 R^4}{4 R^2}\right\}$$

$$\left\{X1,\ \text{INCENTER},\ X53,\ \text{SYMMEDIAN POINT OF ORTHIC TRIANGLE},\ -\left(\left(4 r^2 \left(2 l^6 r^2-12 l^4 r^4+2 l^2 r^6-l^6 r R-9 l^4 r^3 R+9 l^2 r^5 R+r^7 R-l^6 R^2+26 l^4 r^2 R^2-25 l^2 r^4 R^2+16 r^6 R^2+32 l^4 r R^3-184 l^2 r^3 R^3+104 r^5 R^3+8 l^4 R^4-312 l^2 r^2 R^4+352 r^4 R^4-176 l^2 r R^5+656 r^3 R^5-16 l^2 R^6+640 r^2 R^6+256 r R^7\right)\right) \Big/ \left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-4 l^2 R^2+20 r^2 R^2+16 r R^3\right)^2\right)\right\}$$

$$\left\{X1,\ \text{INCENTER},\ X54,\ \text{KosnitaPoint},\ -\frac{R \left(4 l^4 r-16 l^2 r^3+12 r^5-52 l^2 r^2 R+92 r^4 R-26 l^2 r R^2+222 r^3 R^2+l^2 R^3+173 r^2 R^3+36 r R^4-4 R^5\right)}{\left(2 l^2-2 r^2-8 r R-5 R^2\right)^2}\right\}$$

$$\left\{X1,\ \text{INCENTER},\ X55,\ \text{INSIMILICENTER(CIRCUMCIRCLE, INCIRCLE)},\ -\frac{r^2 (2 r-R) R}{(r+R)^2}\right\}$$

$$\left\{X1,\ \text{INCENTER},\ X56,\ \text{EXSIMILICENTER(CIRCUMCIRCLE, INCIRCLE)},\ -\frac{r^2 (2 r-R) R}{(r-R)^2}\right\}$$

$$\left\{X1,\ \text{INCENTER},\ X57,\ \text{ISOGONAL CONJUGATE OF } X(9),\ -\frac{4 r^2 (2 r-R) R}{(r-2 R)^2}\right\}$$

$$\left\{X1,\ \text{INCENTER},\ X58,\ \text{ISOGONAL CONJUGATE OF } X(10),\ \frac{4 r^2 R \left(2 l^2 r-6 r^3+l^2 R-19 r^2 R-16 r R^2\right)}{\left(l^2-3 r^2-4 r R\right)^2}\right\}$$

$$\left\{X1,\ \text{INCENTER},\ X59,\ \text{ISOGONAL CONJUGATE OF } X(11),\ -\frac{r^2 R \left(2 l^4-8 l^2 r^2+6 r^4-28 l^2 r R+52 r^3 R-11 l^2 R^2+129 r^2 R^2+72 r R^3+16 R^4\right)}{(2 r-R) \left(-l^2+r^2+5 r R+4 R^2\right)^2}\right\}$$

$$\left\{X1,\ \text{INCENTER},\ X60,\ \text{ISOGONAL CONJUGATE OF } X(12),\ -\frac{r^2 R \left(2 l^2-2 r^2-8 r R-9 R^2\right) \left(2 l^2 r-6 r^3+l^2 R-19 r^2 R-16 r R^2\right)}{\left(2 l^2 r-2 r^3+l^2 R-7 r^2 R-7 r R^2\right)^2}\right\}$$

$$\left\{X1,\ \text{INCENTER},\ X61,\ \text{ISOGONAL CONJUGATE OF } X(17),\ -\frac{12 r^2 R \left(-\sqrt{3}\ l+r+4 R\right) \left(-l^2+3 r^2+12 r R\right)}{\left(3 l^2+2 \sqrt{3}\ l r-3 r^2-12 r R\right)^2}\right\}$$

$$\left\{X1,\ \text{INCENTER},\ X62,\ \text{ISOGONAL CONJUGATE OF } X(18),\ -\frac{12 r^2 R \left(\sqrt{3}\ l+r+4 R\right) \left(-l^2+3 r^2+12 r R\right)}{\left(3 l^2-2 \sqrt{3}\ l r-3 r^2-12 r R\right)^2}\right\}$$

$$\left\{X1,\ \text{INCENTER},\ X63,\ \text{ISOGONAL CONJUGATE OF } X(19),\ -\frac{R\left(-2 l^2 r+6 r^3-l^2 R+19 r^2 R+16 r R^2\right)}{(r+R)^2}\right\}$$

$$\left\{X1,\ \text{INCENTER},\ X64,\ \text{ISOGONAL CONJUGATE OF } X(20),\ -\frac{4 R\left(l^4 r-l^2 r^3-3 l^4 R-l^2 r^2 R-r^4 R+16 l^2 r R^2-12 r^3 R^2+28 l^2 R^3-52 r^2 R^3-96 r R^4-64 R^5\right)}{(l-r-2 R)^2 (l+r+2 R)^2}\right\}$$

$$\left\{X1,\ \text{INCENTER},\ X65,\ \text{ORTHOCENTER OF THE INTOUCH TRIANGLE},\ \frac{r^2(-2 r+R)}{R}\right\}$$

$$\left\{X1,\ \text{INCENTER},\ X66,\ \text{ISOGONAL CONJUGATE OF } X(22),\ \frac{1}{(l-r-2 R)^2 (l+r+2 R)^2 \left(l^2-r^2-4 r R\right)^2}\left(6 l^8 r^2-20 l^6 r^4+24 l^4 r^6-12 l^2 r^8+2 r^{10}-2 l^8 r R-76 l^6 r^3 R+192 l^4 r^5 R-148 l^2 r^7 R+34 r^9 R-l^8 R^2-20 l^6 r^2 R^2+470 l^4 r^4 R^2-684 l^2 r^6 R^2+235 r^8 R^2+32 l^6 r R^3+296 l^4 r^3 R^3-1424 l^2 r^5 R^3+840 r^7 R^3+4 l^6 R^4-124 l^4 r^2 R^4-1172 l^2 r^4 R^4+1612 r^6 R^4-80 l^4 r R^5+1488 r^5 R^5+272 l^2 r^2 R^6+320 r^4 R^6-256 r^3 R^7\right)\right\}$$

$$\left\{X1,\ \text{INCENTER},\ X67,\ \text{ISOGONAL CONJUGATE OF } X(23),\ \left(l^8+12 l^6 r^2-30 l^4 r^4+20 l^2 r^6-3 r^8-22 l^6 r R-90 l^4 r^3 R+150 l^2 r^5 R-38 r^7 R-4 l^6 R^2+48 l^4 r^2 R^2+324 l^2 r^4 R^2-176 r^6 R^2+72 l^4 r R^3+116 l^2 r^3 R^3-348 r^5 R^3-132 l^2 r^2 R^4-224 r^4 R^4+64 r^3 R^5\right) \Big/ \left(\left(l^2-r^2-4 r R\right)^2 \left(2 l^2-2 r^2-8 r R-9 R^2\right)\right)\right\}$$

$$\left\{X1,\ \text{INCENTER},\ X68,\ \text{PRASOLOV POINT},\ \left(6 l^4 r^2-8 l^2 r^4+2 r^6-2 l^4 r R-32 l^2 r^3 R+18 r^5 R+l^4 R^2-34 l^2 r^2 R^2+61 r^4 R^2+4 l^2 r R^3+92 r^3 R^3-4 l^2 R^4+52 r^2 R^4+4 R^6\right) \Big/ \left((l-r-2 R)^2 (l+r+2 R)^2\right)\right\}$$

$$\left\{X1,\ \text{INCENTER},\ X69,\ \text{SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},\ \frac{l^6+7 l^4 r^2-9 l^2 r^4+r^6-16 l^4 r R-24 l^2 r^3 R+8 r^5 R+16 r^4 R^2}{\left(l^2-r^2-4 r R\right)^2}\right\}$$

$$\left\{X1,\ \text{INCENTER},\ X70,\ \text{ISOGONAL CONJUGATE OF } X(26),\ \left(6 l^8 r^2-20 l^6 r^4+24 l^4 r^6-12 l^2 r^8+2 r^{10}-2 l^8 r R-76 l^6 r^3 R+192 l^4 r^5 R-148 l^2 r^7 R+34 r^9 R-44 l^6 r^2 R^2+524 l^4 r^4 R^2-724 l^2 r^6 R^2+244 r^8 R^2+22 l^6 r R^3+530 l^4 r^3 R^3-1766 l^2 r^5 R^3+958 r^7 R^3-l^6 R^4+83 l^4 r^2 R^4-2175 l^2 r^4 R^4+2221 r^6 R^4-70 l^4 r R^5-1128 l^2 r^3 R^5+3038 r^5 R^5+6 l^4 R^6-40 l^2 r^2 R^6+2274 r^4 R^6+70 l^2 r R^7+734 r^3 R^7-9 l^2 R^8+11 r^2 R^8-20 r R^9+4 R^{10}\right) \Big/ \left(l^4-2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-6 l^2 R^2+22 r^2 R^2+24 r R^3+7 R^4\right)^2\right\}$$

$$\left\{X1,\ \text{INCENTER},\ X71,\ \text{ISOGONAL CONJUGATE OF } X(27),\ -\frac{4 R\left(l^4 r+2 l^2 r^3+r^5-3 l^4 R+13 l^2 r^2 R+12 r^4 R+16 l^2 r R^2+52 r^3 R^2-4 l^2 R^3+96 r^2 R^3+64 r R^4\right)}{\left(l^2+r^2+6 r R+8 R^2\right)^2}\right\}$$

$$\left\{X1,\ \text{INCENTER},\ X72,\ \text{ISOGONAL CONJUGATE OF } X(28),\ -\frac{-l^2 r+r^3-l^2 R+8 r^2 R+16 r R^2}{R}\right\}$$

$$\left\{X1,\ \text{INCENTER},\ X73,\ \text{CROSSPOINT OF INCENTER AND CIRCUMCENTER},\ -\frac{4 r^2 R^2\left(l^2-3 r^2-4 r R-4 R^2\right)}{\left(l^2+r^2-2 r R-4 R^2\right)^2}\right\}$$

$$\left\{X1,\ \text{INCENTER},\ X74,\ \text{ISOGONAL CONJUGATE OF EULER INFINITY POINT},\ -\frac{R\left(6 l^2 r-2 r^3-9 l^2 R-5 r^2 R+12 r R^2+36 R^3\right)}{2 l^2-2 r^2-8 r R-9 R^2}\right\}$$

$$\left\{X1,\ \text{INCENTER},\ X75,\ \text{ISOTOMIC CONJUGATE OF INCENTER},\ \frac{l^6+3 l^4 r^2+3 l^2 r^4+r^6-16 l^4 r R+24 l^2 r^3 R+8 r^5 R+16 r^4 R^2}{\left(l^2+r^2+4 r R\right)^2}\right\}$$

$$\{X1,\ \text{INCENTER},\ X76,\ \text{3rd BROCARD POINT},\ \left(l^{10}+5 l^8 r^2+10 l^6 r^4+10 l^4 r^6+5 l^2 r^8+r^{10}-24 l^8 r R-56 l^6 r^3 R-24 l^4 r^5 R+24 l^2 r^7 R+16 r^9 R+144 l^6 r^2 R^2+256 l^4 r^4 R^2-48 l^2 r^6 R^2+96 r^8 R^2-256 l^4 r^3 R^3-256 l^2 r^5 R^3+256 r^7 R^3+256 r^6 R^4\right)/\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)^2\}$$

$$\left\{X1,\ \text{INCENTER},\ X77,\ \text{ISOGONAL CONJUGATE OF } X(33),\ -\frac{r^2 R^2\left(3 l^2-r^2-8 r R-16 R^2\right)}{\left(l^2-r R-4 R^2\right)^2}\right\}$$

$$\left\{X1,\ \text{INCENTER},\ X78,\ \text{ISOGONAL CONJUGATE OF } X(34),\ \frac{R^2\left(l^2+5 r^2-16 r R\right)}{(r-R)^2}\right\}$$

$$\left\{X1,\ \text{INCENTER},\ X79,\ \text{ISOGONAL CONJUGATE OF } X(35),\ \frac{4 r^2\left(-2 l^2+2 r^2+8 r R+9 R^2\right)}{(2 r+3 R)^2}\right\}$$

$$\{X1,\ \text{INCENTER},\ X80,\ \text{REFLECTION OF INCENTER IN FEUERBACH POINT},\ 4 r^2\}$$

$$\left\{X1,\ \text{INCENTER},\ X81,\ \text{CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},\ \frac{r^2 R\left(2 l^2 r-6 r^3+l^2 R-19 r^2 R-16 r R^2\right)}{\left(l^2-r^2-r R\right)^2}\right\}$$

$$\{X1,\ \text{INCENTER},\ X82,\ \text{ISOGONAL CONJUGATE OF } X(38),\ \left(r^2 R\left(4 l^6 r-44 l^4 r^3+60 l^2 r^5-20 r^7+l^6 R-85 l^4 r^2 R+387 l^2 r^4 R-231 r^6 R-32 l^4 r R^2+680 l^2 r^3 R^2-952 r^5 R^2+320 l^2 r^2 R^3-1648 r^4 R^3-1024 r^3 R^4\right)\right)/\left(l^4-4 l^2 r^2+3 r^4-9 l^2 r R+19 r^3 R+28 r^2 R^2\right)^2\}$$

$$\{X1,\ \text{INCENTER},\ X83,\ \text{CEVAPOINT OF CENTROID AND SYMMEDIAN POINT},\ \left(l^{10}-3 l^8 r^2-6 l^6 r^4+10 l^4 r^6+21 l^2 r^8+9 r^{10}-40 l^8 r R+120 l^6 r^3 R-200 l^4 r^5 R+232 l^2 r^7 R+80 r^9 R+592 l^6 r^2 R^2-1408 l^4 r^4 R^2+1680 l^2 r^6 R^2-160 r^8 R^2-4096 l^4 r^3 R^3+7680 l^2 r^5 R^3-3840 r^7 R^3+13312 l^2 r^4 R^4-14080 r^6 R^4-16384 r^5 R^5\right)/\left(5 l^4-6 l^2 r^2+5 r^4-40 l^2 r R+40 r^3 R+80 r^2 R^2\right)^2\}$$

$$\left\{X1,\ \text{INCENTER},\ X84,\ \text{ISOGONAL CONJUGATE OF } X(40),\ -\frac{4 R\left(-l^2 r+r^3+l^2 R+2 r^2 R-4 R^3\right)}{r^2}\right\}$$

$$\left\{X1,\ \text{INCENTER},\ X85,\ \text{ISOTOMIC CONJUGATE OF } X(9),\ \frac{l^6+3 l^4 r^2+3 l^2 r^4+r^6-24 l^4 r R+24 l^2 r^3 R+16 r^5 R+48 l^2 r^2 R^2+96 r^4 R^2+256 r^3 R^3+256 r^2 R^4}{\left(l^2+r^2+8 r R+16 R^2\right)^2}\right\}$$

$$\left\{X1,\ \text{INCENTER},\ X86,\ \text{CEVAPOINT OF INCENTER AND CENTROID},\ \frac{l^6+3 l^4 r^2+3 l^2 r^4+r^6-16 l^4 r R+24 l^2 r^3 R+8 r^5 R+16 r^4 R^2}{\left(5 l^2+r^2+4 r R\right)^2}\right\}$$

$$\left\{X1,\ \text{INCENTER},\ X87,\ X(2)\text{-CROSS CONJUGATE OF } X(1),\ \frac{16 r^2 R^2\left(l^6-l^4 r^2-5 l^2 r^4-3 r^6-24 l^4 r R+64 l^2 r^3 R-40 r^5 R+144 l^2 r^2 R^2-176 r^4 R^2-256 r^3 R^3\right)}{\left(l^4+2 l^2 r^2+r^4-20 l^2 r R+12 r^3 R+32 r^2 R^2\right)^2}\right\}$$

$$\left\{X1,\ \text{INCENTER},\ X88,\ \text{ISOGONAL CONJUGATE OF } X(44),\ -\frac{9 r^2 (2 r-R) R\left(l^2+5 r^2-16 r R\right)}{\left(l^2+3 r^2-15 r R\right)^2}\right\}$$

$$\left\{X1,\ \text{INCENTER},\ X89,\ \text{ISOGONAL CONJUGATE OF } X(45),\ \frac{9 r^2 R\left(4 l^2 r-28 r^3+l^2 R-35 r^2 R-16 r R^2\right)}{\left(2 l^2-6 r^2+3 r R\right)^2}\right\}$$

$$\left\{X1,\ \text{INCENTER},\ X90,\ X(3)\text{-CROSS CONJUGATE OF } X(1),\ -\frac{4 r^2 R\left(-l^2 r+r^3+5 r^2 R+6 r R^2-R^3\right)}{\left(r^2+2 r R-R^2\right)^2}\right\}$$

$$\{X1,\ \text{INCENTER},\ X91,\ \text{ISOGONAL CONJUGATE OF } X(47),\ \left(r^2\left(l^6+3 l^4 r^2+3 l^2 r^4+r^6-20 l^4 r R+16 l^2 r^3 R+4 r^5 R-4 l^4 R^2+40 l^2 r^2 R^2-4 r^4 R^2+72 l^2 r R^3-40 r^3 R^3+4 l^2 R^4-76 r^2 R^4-64 r R^5\right)\right)/\left(l^2 r+r^3-l^2 R+3 r^2 R+2 r R^2+2 R^3\right)^2\}$$

$$\left\{\text{X1, INCENTER, X92, CEVAPOINT OF INCENTER AND CLAWSON POINT,}\right.$$
$$\frac{1}{\left(l^2+r^2-4R^2\right)^2}\left(l^6+3l^4r^2+3l^2r^4+r^6-24l^4rR+8l^2r^3R-8l^4R^2+\right.$$
$$\left.\left.80l^2r^2R^2-24r^4R^2+160l^2rR^3-128r^3R^3+16l^2R^4-304r^2R^4-256rR^5\right)\right\}$$

$$\left\{\text{X1, INCENTER, X93, ISOGONAL CONJUGATE OF X(49),}\right.$$
$$\left(l^{10}+5l^8r^2+10l^6r^4+10l^4r^6+5l^2r^8+r^{10}-24l^8rR-56l^6r^3R-24l^4r^5R+24l^2r^7R+16r^9R-\right.$$
$$10l^8R^2+84l^6r^2R^2+184l^4r^4R^2-52l^2r^6R^2+114r^8R^2+212l^6rR^3+196l^4r^3R^3-564l^2r^5R^3+$$
$$476r^7R^3+32l^6R^4-588l^4r^2R^4-1272l^2r^4R^4+1268r^6R^4-612l^4rR^5-576l^2r^3R^5+2148r^5R^5-$$
$$\left.34l^4R^6+856l^2r^2R^6+2090r^4R^6+660l^2rR^7+764r^3R^7+7l^2R^8-309r^2R^8-236rR^9+4R^{10}\right)\Big/$$
$$\left.\left(l^4+2l^2r^2+r^4-8l^2rR+8r^3R-8l^2R^2+24r^2R^2+32rR^3+13R^4\right)^2\right\}$$

$$\left\{\text{X1, INCENTER, X94, ISOGONAL CONJUGATE OF X(50),}\right.$$
$$\left(l^{10}+5l^8r^2+10l^6r^4+10l^4r^6+5l^2r^8+r^{10}-24l^8rR-56l^6r^3R-24l^4r^5R+24l^2r^7R+16r^9R-\right.$$
$$12l^8R^2+84l^6r^2R^2+196l^4r^4R^2-36l^2r^6R^2+120r^8R^2+264l^6rR^3+176l^4r^3R^3-568l^2r^5R^3+$$
$$544r^7R^3+54l^6R^4-978l^4r^2R^4-1254l^2r^4R^4+1570r^6R^4-1080l^4rR^5+456l^2r^3R^5+2688r^5R^5-$$
$$\left.108l^4R^6+3060l^2r^2R^6+1872r^4R^6+1944l^2rR^7-1440r^3R^7+81l^2R^8-3051r^2R^8-1296rR^9\right)\Big/$$
$$\left.\left(l^4+2l^2r^2+r^4-8l^2rR+8r^3R-12l^2R^2+28r^2R^2+48rR^3+27R^4\right)^2\right\}$$

$$\left\{\text{X1, INCENTER, X95, CEVAPOINT OF CENTROID AND CIRCUMCENTER,}\right.$$
$$\frac{1}{\left(l^4+18l^2r^2+r^4-8l^2rR+8r^3R-4l^2R^2+20r^2R^2+16rR^3\right)^2}$$
$$\left(l^{10}+21l^8r^2+58l^6r^4+58l^4r^6+21l^2r^8+r^{10}-24l^8rR-344l^6r^3R-728l^4r^5R+120l^2r^7R+16r^9R-\right.$$
$$8l^8R^2+32l^6r^2R^2+1216l^4r^4R^2+104r^8R^2+160l^6rR^3+992l^4r^3R^3-864l^2r^5R^3+352r^7R^3+$$
$$\left.\left.16l^6R^4-400l^4r^2R^4-1296l^2r^4R^4+656r^6R^4-256l^4rR^5-384l^2r^3R^5+640r^5R^5+256r^4R^6\right)\right\}$$

$$\left\{\text{X1, INCENTER, X96, ISOGONAL CONJUGATE OF X(52),}\right.$$
$$-\frac{1}{\left(l^4-14l^2r^2+r^4-8l^2rR+8r^3R+16r^2R^2-4R^4\right)^2}$$
$$\left(l^{10}-11l^8r^2-38l^6r^4-38l^4r^6-11l^2r^8+r^{10}-20l^8rR+120l^6r^3R+448l^4r^5R-\right.$$
$$184l^2r^7R+20r^9R-12l^8R^2+264l^6r^2R^2-48l^4r^4R^2-936l^2r^6R^2+156r^8R^2+$$
$$192l^6rR^3-1488l^4r^3R^3-1120l^2r^5R^3+560r^7R^3+56l^6R^4-1544l^4r^2R^4+$$
$$2504l^2r^4R^4+648r^6R^4-672l^4rR^5+5152l^2r^3R^5-1472r^5R^5-128l^4R^6+3360l^2r^2R^6-$$
$$\left.\left.5152r^4R^6+1024l^2rR^7-5312r^3R^7+144l^2R^8-2480r^2R^8-576rR^9-64R^{10}\right)\right\}$$

$$\left\{\text{X1, INCENTER, X97, ISOGONAL CONJUGATE OF X(53),}\right.$$
$$\left(R\left(12l^6r^3-76l^4r^5+36l^2r^7-4r^9+10l^6r^2R-186l^4r^4R+318l^2r^6R-\right.\right.$$
$$62r^8R+4l^6rR^2-264l^4r^3R^2+1084l^2r^5R^2-408r^7R^2+l^6R^3-157l^4r^2R^3+$$
$$1831l^2r^4R^3-1483r^6R^3-56l^4rR^4+1664l^2r^3R^4-3240r^5R^4-8l^4R^5+$$
$$\left.\left.848l^2r^2R^5-4328r^4R^5+224l^2rR^6-3424r^3R^6+16l^2R^7-1456r^2R^7-256rR^8\right)\right)\Big/$$
$$\left.\left(l^4-6l^2r^2+r^4-8l^2rR+8r^3R-7l^2R^2+23r^2R^2+28rR^3+12R^4\right)^2\right\}$$

$$\left\{\text{X1, INCENTER, X98, TarryPoint,}\right.$$
$$-\left(\left(l^6+3l^4r^2+3l^2r^4+r^6-12l^4rR-32l^2r^3R+12r^5R-4l^4R^2+24l^2r^2R^2+44r^4R^2+\right.\right.$$
$$\left.\left.\left.32l^2rR^3+32r^3R^3-64r^2R^4\right)\Big/\left(l^4-14l^2r^2+r^4-8l^2rR+8r^3R+16r^2R^2\right)\right)\right\}$$

$$\left\{\text{X1, INCENTER, X99, STEINER POINT, }\frac{l^6+3l^4r^2+3l^2r^4+r^6-16l^4rR+24l^2r^3R+8r^5R+16r^4R^2}{l^4-14l^2r^2+r^4-8l^2rR+8r^3R+16r^2R^2}\right\}$$

$$\left\{\text{X1, INCENTER, X100, ANTICOMPLEMENT OF FEUERBACH POINT, }-\frac{R\left(l^2+5r^2-16rR\right)}{2r-R}\right\}$$

$$\left\{\text{X2, CENTROID, X3, CIRCUMCENTER, }\frac{1}{9}\left(-2l^2+2r^2+8rR+9R^2\right)\right\}$$

$$\left\{X2,\ \text{CENTROID},\ X4,\ \text{ORTHOCENTER},\ -\frac{4}{9}\left(2\,l^2-2\,r^2-8\,r\,R-9\,R^2\right)\right\}$$

$$\left\{X2,\ \text{CENTROID},\ X5,\ \text{NINE-POINT CENTER},\ \frac{1}{36}\left(-2\,l^2+2\,r^2+8\,r\,R+9\,R^2\right)\right\}$$

$$\left\{X2,\ \text{CENTROID},\ X6,\ \text{SYMMEDIAN POINT},\ \frac{l^6+9\,l^4\,r^2-9\,l^2\,r^4-r^6-12\,l^4\,r\,R-24\,l^2\,r^3\,R-12\,r^5\,R-60\,l^2\,r^2\,R^2-48\,r^4\,R^2-64\,r^3\,R^3}{9\left(l^2-r^2-4\,r\,R\right)^2}\right\}$$

$$\left\{X2,\ \text{CENTROID},\ X7,\ \text{GERGONNE POINT},\ -\frac{4\left(5\,l^2\,r^2+r^4-8\,l^2\,r\,R+12\,r^3\,R-4\,l^2\,R^2+48\,r^2\,R^2+64\,r\,R^3\right)}{9\,(r+4\,R)^2}\right\}$$

$$\left\{X2,\ \text{CENTROID},\ X8,\ \text{NAGEL POINT},\ \frac{4}{9}\left(l^2+5\,r^2-16\,r\,R\right)\right\}$$

$$\left\{X2,\ \text{CENTROID},\ X9,\ \text{MITTENPUNKT},\ -\frac{5\,l^2\,r^2+r^4-8\,l^2\,r\,R+12\,r^3\,R-4\,l^2\,R^2+48\,r^2\,R^2+64\,r\,R^3}{9\,(r+4\,R)^2}\right\}$$

$$\left\{X2,\ \text{CENTROID},\ X10,\ \text{SPIEKER CENTER},\ \frac{1}{36}\left(l^2+5\,r^2-16\,r\,R\right)\right\}$$

$$\left\{X2,\ \text{CENTROID},\ X11,\ \text{FEUERBACH POINT},\ \frac{-l^2\,r+r^3-l^2\,R+8\,r^2\,R+16\,r\,R^2}{9\,(2\,r-R)}\right\}$$

$$\left\{X2,\ \text{CENTROID},\ X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ \frac{-2\,l^2\,r^2+2\,r^4+l^2\,r\,R+r^3\,R+l^2\,R^2+4\,r^2\,R^2-16\,r\,R^3}{9\,(2\,r+R)^2}\right\}$$

$$\left\{X2,\ \text{CENTROID},\ X13,\ \text{FERMAT POINT},\ \frac{1}{9}\left(l^2-2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)\right\}$$

$$\left\{X2,\ \text{CENTROID},\ X14,\ \text{2nd ISOGONIC CENTER},\ \frac{1}{9}\left(l^2+2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)\right\}$$

$$\left\{X2,\ \text{CENTROID},\ X15,\ \text{1st ISODYNAMIC POINT},\ \frac{\left(l^2-2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)^2}{9\left(l^2+2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)}\right\}$$

$$\left\{X2,\ \text{CENTROID},\ X16,\ \text{2nd ISODYNAMIC POINT},\ \frac{\left(l^2+2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)^2}{9\left(l^2-2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)}\right\}$$

$$\left\{X2,\ \text{CENTROID},\ X17,\ \text{1st NAPOLEON POINT},\ \left(3\,l^6+2\sqrt{3}\,l^5\,r+19\,l^4\,r^2-28\sqrt{3}\,l^3\,r^3-19\,l^2\,r^4+2\sqrt{3}\,l\,r^5-3\,r^6-36\,l^4\,r\,R-16\sqrt{3}\,l^3\,r^2\,R-40\,l^2\,r^3\,R+16\sqrt{3}\,l\,r^4\,R-36\,r^5\,R-144\,l^2\,r^2\,R^2+32\sqrt{3}\,l\,r^3\,R^2-144\,r^4\,R^2-192\,r^3\,R^3\right)\Big/\left(3\left(3\,l^2+10\sqrt{3}\,l\,r-3\,r^2-12\,r\,R\right)^2\right)\right\}$$

$$\left\{X2,\ \text{CENTROID},\ X18,\ \text{2nd NAPOLEON POINT},\ \left(3\,l^6-2\sqrt{3}\,l^5\,r+19\,l^4\,r^2+28\sqrt{3}\,l^3\,r^3-19\,l^2\,r^4-2\sqrt{3}\,l\,r^5-3\,r^6-36\,l^4\,r\,R+16\sqrt{3}\,l^3\,r^2\,R-40\,l^2\,r^3\,R-16\sqrt{3}\,l\,r^4\,R-36\,r^5\,R-144\,l^2\,r^2\,R^2-32\sqrt{3}\,l\,r^3\,R^2-144\,r^4\,R^2-192\,r^3\,R^3\right)\Big/\left(3\left(3\,l^2-10\sqrt{3}\,l\,r-3\,r^2-12\,r\,R\right)^2\right)\right\}$$

$$\left\{X2,\ \text{CENTROID},\ X19,\ \text{CLAWSON POINT},\ -\frac{1}{9\left(l^2-r^2-6\,r\,R-8\,R^2\right)^2}\left(5\,l^6-9\,l^4\,r^2+3\,l^2\,r^4+r^6-8\,l^4\,r\,R-8\,l^2\,r^3\,R+16\,r^5\,R-20\,l^4\,R^2-80\,l^2\,r^2\,R^2+100\,r^4\,R^2-112\,l^2\,r\,R^3+304\,r^3\,R^3-16\,l^2\,R^4+448\,r^2\,R^4+256\,r\,R^5\right)\right\}$$

$$\left\{X2,\ \text{CENTROID},\ X20,\ \text{DE LONGCHAMPS POINT},\ -\frac{16}{9}\left(2\,l^2-2\,r^2-8\,r\,R-9\,R^2\right)\right\}$$

$$\left\{X2,\ CENTROID,\ X21,\ SCHIFFLER\ POINT,\ \frac{4 r^2 \left(-2 l^2+2 r^2+8 r R+9 R^2\right)}{9 (2 r+3 R)^2}\right\}$$

$$\left\{X2,\ CENTROID,\ X22,\ ExeterPoint,\ -\frac{\left(l^2-r^2-4 r R\right)^2 \left(2 l^2-2 r^2-8 r R-9 R^2\right)}{9 \left(l^2-r^2-4 r R-3 R^2\right)^2}\right\}$$

$$\left\{X2,\ CENTROID,\ X23,\ FarOutPoint,\ -\frac{4 \left(l^2-r^2-4 r R\right)^2}{9 \left(2 l^2-2 r^2-8 r R-9 R^2\right)}\right\}$$

$$\left\{X2,\ CENTROID,\ X24,\ PERSPECTOR\ OF\ ABC\ AND\ ORTHIC\text{-}OF\text{-}ORTHIC\ TRIANGLE,\ -\frac{\left(2 l^2-2 r^2-8 r R-9 R^2\right) \left(l^2-r^2-4 r R-2 R^2\right)^2}{9 \left(l^2-r^2-4 r R-5 R^2\right)^2}\right\}$$

$$\left\{X2,\ CENTROID,\ X25,\ HOMOTHETIC\ CENTER\ OF\ ORTHIC\ AND\ TANGENTIAL\ TRIANGLES,\ -\frac{\left(l^2-r^2-4 r R\right)^2 \left(2 l^2-2 r^2-8 r R-9 R^2\right)}{9 \left(l^2-r^2-4 r R-6 R^2\right)^2}\right\}$$

$$\left\{X2,\ CENTROID,\ X26,\ CIRCUMCENTER\ OF\ THE\ TANGENTIAL\ TRIANGLE,\ -\frac{\left(2 l^2-2 r^2-8 r R-9 R^2\right) \left(l^2-r^2-4 r R-R^2\right)^2}{9 (l-r-2 R)^2 (l+r+2 R)^2}\right\}$$

$$\left\{X2,\ CENTROID,\ X27,\ CEVAPOINT\ OF\ ORTHOCENTER\ AND\ CLAWSON\ CENTER,\ -\frac{16 l^4 \left(2 l^2-2 r^2-8 r R-9 R^2\right)}{9 \left(l^2-3 r^2-12 r R-12 R^2\right)^2}\right\}$$

$$\left\{X2,\ CENTROID,\ X28,\ CEVAPOINT\ OF\ X(19)\ AND\ X(25),\ -\frac{\left(l^2-r^2-2 r R\right)^2 \left(2 l^2-2 r^2-8 r R-9 R^2\right)}{9 \left(l^2-r^2-5 r R-6 R^2\right)^2}\right\}$$

$$\left\{X2,\ CENTROID,\ X29,\ CEVAPOINT\ OF\ INCENTER\ AND\ ORTHOCENTER,\ -\frac{16 r^2 (r+2 R)^2 \left(2 l^2-2 r^2-8 r R-9 R^2\right)}{9 \left(3 l^2-r^2-8 r R-12 R^2\right)^2}\right\}$$

$$\{X2,\ CENTROID,\ X30,\ EulerInfinityPoint,\ \infty\}$$

$$\left\{X2,\ CENTROID,\ X31,\ SecondPowerPoint,\ \frac{l^6+11 l^4 r^2-45 l^2 r^4+9 r^6-16 l^4 r R-72 l^2 r^3 R+72 r^5 R+144 r^4 R^2}{9 \left(l^2-3 r^2-6 r R\right)^2}\right\}$$

$$\{X2,\ CENTROID,\ X32,\ ThirdPowerPoint,\ \left(l^{10}+11 l^8 r^2-118 l^6 r^4+118 l^4 r^6-11 l^2 r^8-r^{10}-20 l^8 r R-112 l^6 r^3 R+584 l^4 r^5 R-112 l^2 r^7 R-20 r^9 R+52 l^6 r^2 R^2+648 l^4 r^4 R^2-396 l^2 r^6 R^2-160 r^8 R^2+224 l^4 r^3 R^3-608 l^2 r^5 R^3-640 r^7 R^3-448 l^2 r^4 R^4-1280 r^6 R^4-1024 r^5 R^5\right) / \left(9 \left(l^2-2 l r-r^2-4 r R\right)^2 \left(l^2+2 l r-r^2-4 r R\right)^2\right)\}$$

$$\left\{X2,\ CENTROID,\ X33,\ PERSPECTOR\ OF\ THE\ ORTHIC\ AND\ INTANGENTS\ TRIANGLES,\ \frac{1}{9 \left(l^2-r^2-2 r R-4 R^2\right)^2} \left(l^6+3 l^4 r^2-9 l^2 r^4+5 r^6-20 l^4 r R-32 l^2 r^3 R+52 r^5 R-8 l^4 R^2+24 l^2 r^2 R^2+176 r^4 R^2+144 l^2 r R^3+176 r^3 R^3+16 l^2 R^4-128 r^2 R^4-256 r R^5\right)\right\}$$

$$\left\{X2,\ CENTROID,\ X34,\ X(4)\text{-}BETH\ CONJUGATE\ OF\ X(4),\ \frac{1}{9 \left(l^2-r^2-6 r R-4 R^2\right)^2} \left(l^6+3 l^4 r^2-9 l^2 r^4+5 r^6-28 l^4 r R+32 l^2 r^3 R-4 r^5 R-8 l^4 R^2+136 l^2 r^2 R^2-128 r^4 R^2+176 l^2 r R^3-368 r^3 R^3+16 l^2 R^4-448 r^2 R^4-256 r R^5\right)\right\}$$

$$\left\{X2,\ \text{CENTROID},\ X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),\ \frac{-8 l^2 r^2+8 r^4-2 l^2 r R+46 r^3 R+l^2 R^2+61 r^2 R^2-16 r R^3}{9 (2 r+R)^2}\right\}$$

$$\left\{X2,\ \text{CENTROID},\ X36,\ \text{INVERSE-IN-CIRCUMCIRCLE OF INCENTER},\ \frac{-4 l^2 r+4 r^3-l^2 R+11 r^2 R+16 r R^2}{9 (2 r-R)}\right\}$$

$$\left\{X2,\ \text{CENTROID},\ X37,\ \text{CrosspointOfIncenterAndCentroid},\ \frac{l^6+l^4 r^2-l^2 r^4-r^6-20 l^4 r R+40 l^2 r^3 R-12 r^5 R+68 l^2 r^2 R^2-48 r^4 R^2-64 r^3 R^3}{9 \left(l^2+r^2+4 r R\right)^2}\right\}$$

$$\left\{X2,\ \text{CENTROID},\ X38,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(75),\ \frac{l^6-5 l^4 r^2-13 l^2 r^4-7 r^6-32 l^4 r R+136 l^2 r^3 R-120 r^5 R+320 l^2 r^2 R^2-624 r^4 R^2-1024 r^3 R^3}{9 \left(l^2+r^2-2 r R\right)^2}\right\}$$

$$\left\{X2,\ \text{CENTROID},\ X39,\ \text{BrocardMidpoint},\ \left(l^{10}+3 l^8 r^2+2 l^6 r^4-2 l^4 r^6-3 l^2 r^8-r^{10}-20 l^8 r R-16 l^6 r^3 R+8 l^4 r^5 R-16 l^2 r^7 R-20 r^9 R+52 l^6 r^2 R^2+264 l^4 r^4 R^2-12 l^2 r^6 R^2-160 r^8 R^2+224 l^4 r^3 R^3-96 l^2 r^5 R^3-640 r^7 R^3-448 l^2 r^4 R^4-1280 r^6 R^4-1024 r^5 R^5\right) / \left(9 \left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)^2\right)\right\}$$

$$\left\{X2,\ \text{CENTROID},\ X40,\ \text{BEVAN POINT},\ \frac{1}{9} \left(-5 l^2-r^2-4 r R+36 R^2\right)\right\}$$

$$\left\{X2,\ \text{CENTROID},\ X41,\ X(6)\text{-CEVA CONJUGATE OF } X(31),\ -\left(\left(9 l^6 r^2-45 l^4 r^4+11 l^2 r^6+r^8-164 l^4 r^3 R+112 l^2 r^5 R+20 r^7 R-4 l^6 R^2-72 l^4 r^2 R^2+396 l^2 r^4 R^2+160 r^6 R^2+32 l^4 r R^3+608 l^2 r^3 R^3+640 r^5 R^3+448 l^2 r^2 R^4+1280 r^4 R^4+1024 r^3 R^5\right) / \left(9 \left(3 l^2 r-r^3+2 l^2 R-8 r^2 R-16 r R^2\right)^2\right)\right)\right\}$$

$$\left\{X2,\ \text{CENTROID},\ X42,\ \text{CROSSPOINT OF INCENTER AND SYMMEDIAN POINT},\ \frac{\left(l^2+5 r^2-16 r R\right) \left(l^2+r^2+4 r R\right)^2}{9 \left(l^2+r^2-2 r R\right)^2}\right\}$$

$$\left\{X2,\ \text{CENTROID},\ X43,\ X(6)\text{-CEVA CONJUGATE OF } X(1),\ \frac{\left(l^2+5 r^2-16 r R\right) \left(l^2+r^2+4 r R\right)^2}{9 \left(l^2+r^2-8 r R\right)^2}\right\}$$

$$\left\{X2,\ \text{CENTROID},\ X44,\ X(6)\text{-LINE CONJUGATE OF } X(1),\ \frac{l^6+17 l^4 r^2-57 l^2 r^4-9 r^6-4 l^4 r R-24 l^2 r^3 R-108 r^5 R-156 l^2 r^2 R^2-432 r^4 R^2-576 r^3 R^3}{9 \left(l^2-3 r^2-12 r R\right)^2}\right\}$$

$$\left\{X2,\ \text{CENTROID},\ X45,\ X(9)\text{-BETH CONJUGATE OF } X(1),\ \frac{l^6-7 l^4 r^2-33 l^2 r^4-9 r^6-28 l^4 r R+168 l^2 r^3 R-108 r^5 R+228 l^2 r^2 R^2-432 r^4 R^2-576 r^3 R^3}{9 \left(l^2+3 r^2+12 r R\right)^2}\right\}$$

$$\left\{X2,\ \text{CENTROID},\ X46,\ X(4)\text{-CEVA CONJUGATE OF } X(1),\ -\frac{5 l^2 r^2+r^4-4 l^2 r R+8 r^3 R-l^2 R^2+11 r^2 R^2+16 r R^3}{9 (r-R)^2}\right\}$$

$$\left\{X2,\ \text{CENTROID},\ X47,\ X(110)\text{-BETH CONJUGATE OF } X(34),\ \frac{1}{9 \left(l^2-3 r^2-6 r R-2 R^2\right)^2} \left(l^6+11 l^4 r^2-45 l^2 r^4+9 r^6-16 l^4 r R-72 l^2 r^3 R+72 r^5 R-4 l^4 R^2-32 l^2 r^2 R^2+180 r^4 R^2+64 l^2 r R^3+144 r^3 R^3+4 l^2 R^4+20 r^2 R^4-64 r R^5\right)\right\}$$

$$\left\{X2,\ CENTROID,\ X48,\ CROSSPOINT\ OF\ X(1)\ AND\ X(63),\ -\frac{1}{9\left(3 l^2-r^2-6 r R-8 R^2\right)^2}\left(9 l^6-45 l^4 r^2+11 l^2 r^4+r^6-72 l^4 r R+72 l^2 r^3 R+16 r^5 R-36 l^4 R^2+176 l^2 r^2 R^2+100 r^4 R^2+144 l^2 r R^3+304 r^3 R^3-16 l^2 R^4+448 r^2 R^4+256 r R^5\right)\right\}$$

$$\left\{X2,\ CENTROID,\ X49,\ CENTER\ OF\ SINE-TRIPLE-ANGLE\ CIRCLE,\ -\left(\left(2 l^6-30 l^4 r^2+30 l^2 r^4-2 r^6-24 l^4 r R+144 l^2 r^3 R-24 r^5 R-14 l^4 R^2+244 l^2 r^2 R^2-110 r^4 R^2+112 l^2 r R^3-240 r^3 R^3+20 l^2 R^4-244 r^2 R^4-80 r R^5-9 R^6\right)\Big/\left(9\left(2 l^2-2 r^2-8 r R-7 R^2\right)^2\right)\right)\right\}$$

$$\left\{X2,\ CENTROID,\ X50,\ X(74)-CEVA\ CONJUGATE\ OF\ X(184),\ \left(l^{10}+11 l^8 r^2-118 l^6 r^4+118 l^4 r^6-11 l^2 r^8-r^{10}-20 l^8 r R-112 l^6 r^3 R+584 l^4 r^5 R-112 l^2 r^7 R-20 r^9 R-6 l^8 R^2-8 l^6 r^2 R^2+924 l^4 r^4 R^2-456 l^2 r^6 R^2-166 r^8 R^2+96 l^6 r R^3+608 l^4 r^3 R^3-992 l^2 r^5 R^3-736 r^7 R^3+9 l^6 R^4+153 l^4 r^2 R^4-1369 l^2 r^4 R^4-1865 r^6 R^4-108 l^4 r R^5-1272 l^2 r^3 R^5-2668 r^5 R^5-540 l^2 r^2 R^6-1968 r^4 R^6-576 r^3 R^7\right)\Big/\left(9\left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-3 l^2 R^2+19 r^2 R^2+12 r R^3\right)^2\right)\right\}$$

$$\left\{X2,\ CENTROID,\ X51,\ CENTROID\ OF\ ORTHIC\ TRIANGLE,\ \frac{l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2}{36 R^2}\right\}$$

$$\left\{X2,\ CENTROID,\ X52,\ ORTHOCENTER\ OF\ ORTHIC\ TRIANGLE,\ \frac{15 l^4-114 l^2 r^2+15 r^4-120 l^2 r R+120 r^3 R-44 l^2 R^2+284 r^2 R^2+176 r R^3+36 R^4}{36 R^2}\right\}$$

$$\left\{X2,\ CENTROID,\ X53,\ SYMMEDIAN\ POINT\ OF\ ORTHIC\ TRIANGLE,\ \left(l^{10}-l^8 r^2-34 l^6 r^4+34 l^4 r^6+l^2 r^8-r^{10}-20 l^8 r R+32 l^6 r^3 R+104 l^4 r^5 R+32 l^2 r^7 R-20 r^9 R-8 l^8 R^2+20 l^6 r^2 R^2+200 l^4 r^4 R^2+148 l^2 r^6 R^2-168 r^8 R^2+128 l^6 r R^3+352 l^4 r^3 R^3+32 l^2 r^5 R^3-768 r^7 R^3+16 l^6 R^4+240 l^4 r^2 R^4-944 l^2 r^4 R^4-2064 r^6 R^4-192 l^4 r R^5-1792 l^2 r^3 R^5-3264 r^5 R^5-960 l^2 r^2 R^6-2816 r^4 R^6-1024 r^3 R^7\right)\Big/\left(9\left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-4 l^2 R^2+20 r^2 R^2+16 r R^3\right)^2\right)\right\}$$

$$\left\{X2,\ CENTROID,\ X54,\ KosnitaPoint,\ -\left(\left(2 l^6-30 l^4 r^2+30 l^2 r^4-2 r^6-24 l^4 r R+144 l^2 r^3 R-24 r^5 R-19 l^4 R^2+266 l^2 r^2 R^2-115 r^4 R^2+152 l^2 r R^3-280 r^3 R^3+44 l^2 R^4-348 r^2 R^4-176 r R^5-36 R^6\right)\Big/\left(9\left(2 l^2-2 r^2-8 r R-5 R^2\right)^2\right)\right)\right\}$$

$$\left\{X2,\ CENTROID,\ X55,\ INSIMILICENTER(CIRCUMCIRCLE,\ INCIRCLE),\ \frac{(2 r-R)\left(-l^2 r+r^3-l^2 R+8 r^2 R+16 r R^2\right)}{9 (r+R)^2}\right\}$$

$$\left\{X2,\ CENTROID,\ X56,\ EXSIMILICENTER(CIRCUMCIRCLE,\ INCIRCLE),\ \frac{-2 l^2 r^2+2 r^4+l^2 r R+r^3 R+l^2 R^2+4 r^2 R^2-16 r R^3}{9 (r-R)^2}\right\}$$

$$\left\{X2,\ CENTROID,\ X57,\ ISOGONAL\ CONJUGATE\ OF\ X(9),\ -\frac{5 l^2 r^2+r^4-8 l^2 r R+12 r^3 R-4 l^2 R^2+48 r^2 R^2+64 r R^3}{9 (r-2 R)^2}\right\}$$

$$\left\{X2,\ CENTROID,\ X58,\ ISOGONAL\ CONJUGATE\ OF\ X(10),\ \frac{l^6+11 l^4 r^2-45 l^2 r^4+9 r^6-12 l^4 r R-40 l^2 r^3 R+36 r^5 R-60 l^2 r^2 R^2+20 r^4 R^2-64 r^3 R^3}{9\left(l^2-3 r^2-4 r R\right)^2}\right\}$$

$$\left\{X2,\ CENTROID,\ X59,\ ISOGONAL\ CONJUGATE\ OF\ X(11),\ \left(-l^6 r+15 l^4 r^3-15 l^2 r^5+r^7-l^6 R+8 l^4 r^2 R-85 l^2 r^4 R+18 r^6 R+28 l^4 r R^2-172 l^2 r^3 R^2+120 r^5 R^2+8 l^4 R^3-84 l^2 r^2 R^3+356 r^4 R^3-160 l^2 r R^4+432 r^3 R^4-16 l^2 R^5+192 r^2 R^5+256 r R^6\right)\Big/\left(9 (2 r-R)\left(-l^2+r^2+5 r R+4 R^2\right)^2\right)\right\}$$

$$\{X2, \text{CENTROID}, X60, \text{ISOGONAL CONJUGATE OF } X(12),$$
$$-\left(\left(2 l^6 r^2 - 30 l^4 r^4 + 30 l^2 r^6 - 2 r^8 - l^6 r R - 47 l^4 r^3 R + 133 l^2 r^5 R - 13 r^7 R - l^6 R^2 - 4 l^4 r^2 R^2 + 251 l^2 r^4 R^2 - 18 r^6 R^2 + 12 l^4 r R^3 + 212 l^2 r^3 R^3 + 40 r^5 R^3 + 60 l^2 r^2 R^4 + 108 r^4 R^4 + 64 r^3 R^5\right) / \left(9 \left(2 l^2 r - 2 r^3 + l^2 R - 7 r^2 R - 7 r R^2\right)^2\right)\right)\}$$

$$\{X2, \text{CENTROID}, X61, \text{ISOGONAL CONJUGATE OF } X(17),$$
$$\left(3 l^6 - 2 \sqrt{3}\, l^5 r + 19 l^4 r^2 + 28 \sqrt{3}\, l^3 r^3 - 19 l^2 r^4 - 2 \sqrt{3}\, l r^5 - 3 r^6 - 36 l^4 r R + 16 \sqrt{3}\, l^3 r^2 R - 40 l^2 r^3 R - 16 \sqrt{3}\, l r^4 R - 36 r^5 R - 144 l^2 r^2 R^2 - 32 \sqrt{3}\, l r^3 R^2 - 144 r^4 R^2 - 192 r^3 R^3\right) / \left(3 \left(3 l^2 + 2 \sqrt{3}\, l r - 3 r^2 - 12 r R\right)^2\right)\}$$

$$\{X2, \text{CENTROID}, X62, \text{ISOGONAL CONJUGATE OF } X(18),$$
$$\left(3 l^6 + 2 \sqrt{3}\, l^5 r + 19 l^4 r^2 - 28 \sqrt{3}\, l^3 r^3 - 19 l^2 r^4 + 2 \sqrt{3}\, l r^5 - 3 r^6 - 36 l^4 r R - 16 \sqrt{3}\, l^3 r^2 R - 40 l^2 r^3 R + 16 \sqrt{3}\, l r^4 R - 36 r^5 R - 144 l^2 r^2 R^2 + 32 \sqrt{3}\, l r^3 R^2 - 144 r^4 R^2 - 192 r^3 R^3\right) / \left(3 \left(3 l^2 - 2 \sqrt{3}\, l r - 3 r^2 - 12 r R\right)^2\right)\}$$

$$\{X2, \text{CENTROID}, X63, \text{ISOGONAL CONJUGATE OF } X(19),$$
$$-\frac{5 l^2 r^2 + r^4 - 8 l^2 r R + 12 r^3 R - 4 l^2 R^2 + 48 r^2 R^2 + 64 r R^3}{9 (r + R)^2}\}$$

$$\{X2, \text{CENTROID}, X64, \text{ISOGONAL CONJUGATE OF } X(20),$$
$$-\left(\left(5 l^6 - 3 l^4 r^2 + 3 l^2 r^4 - 5 r^6 - 60 l^4 r R + 72 l^2 r^3 R - 60 r^5 R - 148 l^4 R^2 + 452 l^2 r^2 R^2 - 388 r^4 R^2 + 1184 l^2 r R^3 - 1504 r^3 R^3 + 1088 l^2 R^4 - 3456 r^2 R^4 - 4352 r R^5 - 2304 R^6\right) / \left(9 (l - r - 2 R)^2 (l + r + 2 R)^2\right)\right)\}$$

$$\{X2, \text{CENTROID}, X65, \text{ORTHOCENTER OF THE INTOUCH TRIANGLE}, -\frac{-3 l^2 r + 15 r^3 - l^2 R + 28 r^2 R + 16 r R^2}{9 R}\}$$

$$\{X2, \text{CENTROID}, X66, \text{ISOGONAL CONJUGATE OF } X(22),$$
$$-\frac{1}{9 (l - r - 2 R)^2 (l + r + 2 R)^2 \left(l^2 - r^2 - 4 r R\right)^2} \left(2 l^{10} - 34 l^8 r^2 + 92 l^6 r^4 - 92 l^4 r^6 + 34 l^2 r^8 - 2 r^{10} - 40 l^8 r R + 448 l^6 r^3 R - 816 l^4 r^5 R + 448 l^2 r^7 R - 40 r^9 R - 7 l^8 R^2 + 528 l^6 r^2 R^2 - 2514 l^4 r^4 R^2 + 2320 l^2 r^6 R^2 - 327 r^8 R^2 + 112 l^6 r R^3 - 3056 l^4 r^3 R^3 + 5872 l^2 r^5 R^3 - 1392 r^7 R^3 - 4 l^6 R^4 - 1140 l^4 r^2 R^4 + 7252 l^2 r^4 R^4 - 3228 r^6 R^4 + 48 l^4 r R^5 + 3616 l^2 r^3 R^5 - 3792 r^5 R^5 + 240 l^2 r^2 R^6 - 1600 r^4 R^6 + 256 r^3 R^7\right)\}$$

$$\{X2, \text{CENTROID}, X67, \text{ISOGONAL CONJUGATE OF } X(23),$$
$$\frac{l^6 + 33 l^4 r^2 - 33 l^2 r^4 - r^6 - 12 l^4 r R - 120 l^2 r^3 R - 12 r^5 R - 60 l^2 r^2 R^2 - 48 r^4 R^2 - 64 r^3 R^3}{9 \left(l^2 - r^2 - 4 r R\right)^2}\}$$

$$\{X2, \text{CENTROID}, X68, \text{PRASOLOV POINT},$$
$$-\left(\left(2 l^6 - 30 l^4 r^2 + 30 l^2 r^4 - 2 r^6 - 24 l^4 r R + 144 l^2 r^3 R - 24 r^5 R - 19 l^4 R^2 + 266 l^2 r^2 R^2 - 115 r^4 R^2 + 152 l^2 r R^3 - 280 r^3 R^3 + 44 l^2 R^4 - 348 r^2 R^4 - 176 r R^5 - 36 R^6\right) / \left(9 (l - r - 2 R)^2 (l + r + 2 R)^2\right)\right)\}$$

$$\{X2, \text{CENTROID}, X69, \text{SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},$$
$$\frac{4 \left(l^6 + 9 l^4 r^2 - 9 l^2 r^4 - r^6 - 12 l^4 r R - 24 l^2 r^3 R - 12 r^5 R - 60 l^2 r^2 R^2 - 48 r^4 R^2 - 64 r^3 R^3\right)}{9 \left(l^2 - r^2 - 4 r R\right)^2}\}$$

$$\{X2, \text{CENTROID}, X70, \text{ISOGONAL CONJUGATE OF } X(26),$$
$$-\left(\left(2 l^{10} - 34 l^8 r^2 + 92 l^6 r^4 - 92 l^4 r^6 + 34 l^2 r^8 - 2 r^{10} - 40 l^8 r R + 448 l^6 r^3 R - 816 l^4 r^5 R + 448 l^2 r^7 R - 40 r^9 R - 21 l^8 R^2 + 656 l^6 r^2 R^2 - 2742 l^4 r^4 R^2 + 2448 l^2 r^6 R^2 - 341 r^8 R^2 + 336 l^6 r R^3 - 4304 l^4 r^3 R^3 + 7120 l^2 r^5 R^3 - 1616 r^7 R^3 + 82 l^6 R^4 - 3150 l^4 r^2 R^4 + 11\,758 l^2 r^4 R^4 - 4658 r^6 R^4 - 984 l^4 r R^5 + 10\,896 l^2 r^3 R^5 - 8408 r^5 R^5 - 147 l^4 R^6 + 5274 l^2 r^2 R^6 - 9459 r^4 R^6 + 1176 l^2 r R^7 - 6424 r^3 R^7 + 116 l^2 R^8 - 2468 r^2 R^8 - 464 r R^9 - 36 R^{10}\right) / \left(9 \left(l^4 - 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 6 l^2 R^2 + 22 r^2 R^2 + 24 r R^3 + 7 R^4\right)^2\right)\right)\}$$

$$\left\{X2,\ \text{CENTROID},\ X71,\ \text{ISOGONAL CONJUGATE OF } X(27),\ -\frac{1}{9\left(l^2+r^2+6\,r\,R+8\,R^2\right)^2}\left(5\,l^6+11\,l^4\,r^2+7\,l^2\,r^4+r^6+16\,l^4\,r\,R+32\,l^2\,r^3\,R+16\,r^5\,R-52\,l^4\,R^2+48\,l^2\,r^2\,R^2+100\,r^4\,R^2+16\,l^2\,r\,R^3+304\,r^3\,R^3-16\,l^2\,R^4+448\,r^2\,R^4+256\,r\,R^5\right)\right\}$$

$$\left\{X2,\ \text{CENTROID},\ X72,\ \text{ISOGONAL CONJUGATE OF } X(28),\ -\frac{-6\,l^2\,r+12\,r^3-4\,l^2\,R+55\,r^2\,R+64\,r\,R^2}{9\,R}\right\}$$

$$\left\{X2,\ \text{CENTROID},\ X73,\ \text{CROSSPOINT OF INCENTER AND CIRCUMCENTER},\ \frac{1}{9\left(l^2+r^2-2\,r\,R-4\,R^2\right)^2}\left(l^6+7\,l^4\,r^2+11\,l^2\,r^4+5\,r^6-20\,l^4\,r\,R-8\,l^2\,r^3\,R+12\,r^5\,R-8\,l^4\,R^2-40\,l^2\,r^2\,R^2+32\,r^4\,R^2+144\,l^2\,r\,R^3+144\,r^3\,R^3+16\,l^2\,R^4+64\,r^2\,R^4-256\,r\,R^5\right)\right\}$$

$$\left\{X2,\ \text{CENTROID},\ X74,\ \text{ISOGONAL CONJUGATE OF EULER INFINITY POINT},\ -\frac{7\,l^4-2\,l^2\,r^2+7\,r^4-56\,l^2\,r\,R+56\,r^3\,R-108\,l^2\,R^2+220\,r^2\,R^2+432\,r\,R^3+324\,R^4}{9\left(2\,l^2-2\,r^2-8\,r\,R-9\,R^2\right)}\right\}$$

$$\left\{X2,\ \text{CENTROID},\ X75,\ \text{ISOTOMIC CONJUGATE OF INCENTER},\ \frac{4\left(l^6+l^4\,r^2-l^2\,r^4-r^6-20\,l^4\,r\,R+40\,l^2\,r^3\,R-12\,r^5\,R+68\,l^2\,r^2\,R^2-48\,r^4\,R^2-64\,r^3\,R^3\right)}{9\left(l^2+r^2+4\,r\,R\right)^2}\right\}$$

$$\left\{X2,\ \text{CENTROID},\ X76,\ \text{3rd BROCARD POINT},\ \left(4\left(l^{10}+3\,l^8\,r^2+2\,l^6\,r^4-2\,l^4\,r^6-3\,l^2\,r^8-r^{10}-20\,l^8\,r\,R-16\,l^6\,r^3\,R+8\,l^4\,r^5\,R-16\,l^2\,r^7\,R-20\,r^9\,R+52\,l^6\,r^2\,R^2+264\,l^4\,r^4\,R^2-12\,l^2\,r^6\,R^2-160\,r^8\,R^2+224\,l^4\,r^3\,R^3-96\,l^2\,r^5\,R^3-640\,r^7\,R^3-448\,l^2\,r^4\,R^4-1280\,r^6\,R^4-1024\,r^5\,R^5\right)\right)\Big/\left(9\left(l^4+2\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R+16\,r^2\,R^2\right)^2\right)\right\}$$

$$\left\{X2,\ \text{CENTROID},\ X77,\ \text{ISOGONAL CONJUGATE OF } X(33),\ \frac{1}{9\left(l^2-r\,R-4\,R^2\right)^2}\left(l^6+5\,l^4\,r^2-24\,l^4\,r\,R+8\,l^2\,r^3\,R-8\,l^4\,R^2+44\,l^2\,r^2\,R^2-4\,r^4\,R^2+160\,l^2\,r\,R^3-48\,r^3\,R^3+16\,l^2\,R^4-192\,r^2\,R^4-256\,r\,R^5\right)\right\}$$

$$\left\{X2,\ \text{CENTROID},\ X78,\ \text{ISOGONAL CONJUGATE OF } X(34),\ \frac{(r+2\,R)^2\left(l^2+5\,r^2-16\,r\,R\right)}{9\,(r-R)^2}\right\}$$

$$\left\{X2,\ \text{CENTROID},\ X79,\ \text{ISOGONAL CONJUGATE OF } X(35),\ \frac{-56\,l^2\,r^2+8\,r^4+30\,l^2\,r\,R+38\,r^3\,R+9\,l^2\,R^2-3\,r^2\,R^2-144\,r\,R^3}{9\,(2\,r+3\,R)^2}\right\}$$

$$\left\{X2,\ \text{CENTROID},\ X80,\ \text{REFLECTION OF INCENTER IN FEUERBACH POINT},\ \frac{-4\,l^2\,r+28\,r^3-l^2\,R+35\,r^2\,R+16\,r\,R^2}{9\,(2\,r-R)}\right\}$$

$$\left\{X2,\ \text{CENTROID},\ X81,\ \text{CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},\ \frac{l^6+9\,l^4\,r^2-9\,l^2\,r^4-r^6-12\,l^4\,r\,R-24\,l^2\,r^3\,R-12\,r^5\,R-60\,l^2\,r^2\,R^2-48\,r^4\,R^2-64\,r^3\,R^3}{9\left(l^2-r^2-r\,R\right)^2}\right\}$$

$$\left\{X2,\ \text{CENTROID},\ X82,\ \text{ISOGONAL CONJUGATE OF } X(38),\ \left(l^{10}+9\,l^8\,r^2-66\,l^6\,r^4+110\,l^4\,r^6-63\,l^2\,r^8+9\,r^{10}-28\,l^8\,r\,R-140\,l^6\,r^3\,R+652\,l^4\,r^5\,R-628\,l^2\,r^7\,R+144\,r^9\,R+236\,l^6\,r^2\,R^2+900\,l^4\,r^4\,R^2-2188\,l^2\,r^6\,R^2+860\,r^8\,R^2-752\,l^4\,r^3\,R^3-2432\,l^2\,r^5\,R^3+2256\,r^7\,R^3+784\,l^2\,r^4\,R^4+2112\,r^6\,R^4-256\,r^5\,R^5\right)\Big/\left(9\left(l^4-4\,l^2\,r^2+3\,r^4-9\,l^2\,r\,R+19\,r^3\,R+28\,r^2\,R^2\right)^2\right)\right\}$$

$$\{X2,\ CENTROID,\ X83,\ CEVAPOINT\ OF\ CENTROID\ AND\ SYMMEDIAN\ POINT,$$
$$\left(4\left(l^{10}+11 l^8 r^2-118 l^6 r^4+118 l^4 r^6-11 l^2 r^8-r^{10}-20 l^8 r R-112 l^6 r^3 R+584 l^4 r^5 R-112 l^2 r^7 R-20 r^9 R+52 l^6 r^2 R^2+648 l^4 r^4 R^2-396 l^2 r^6 R^2-160 r^8 R^2+224 l^4 r^3 R^3-608 l^2 r^5 R^3-640 r^7 R^3-448 l^2 r^4 R^4-1280 r^6 R^4-1024 r^5 R^5\right)\right)\Big/\left(9\left(5 l^4-6 l^2 r^2+5 r^4-40 l^2 r R+40 r^3 R+80 r^2 R^2\right)^2\right)\}$$

$$\{X2,\ CENTROID,\ X84,\ ISOGONAL\ CONJUGATE\ OF\ X(40),$$
$$-\frac{5 l^2 r^2+r^4-36 l^2 r R+16 r^3 R+36 l^2 R^2+48 r^2 R^2-144 R^4}{9 r^2}\}$$

$$\{X2,\ CENTROID,\ X85,\ ISOTOMIC\ CONJUGATE\ OF\ X(9),\ \frac{1}{9\left(l^2+r^2+8 r R+16 R^2\right)^2}$$
$$4\left(l^6+l^4 r^2-l^2 r^4-r^6-36 l^4 r R+16 l^2 r^3 R-20 r^5 R-16 l^4 R^2+180 l^2 r^2 R^2-160 r^4 R^2+416 l^2 r R^3-640 r^3 R^3+64 l^2 R^4-1280 r^2 R^4-1024 r R^5\right)\}$$

$$\{X2,\ CENTROID,\ X86,\ CEVAPOINT\ OF\ INCENTER\ AND\ CENTROID,$$
$$\frac{4\left(l^6+9 l^4 r^2-9 l^2 r^4-r^6-12 l^4 r R-24 l^2 r^3 R-12 r^5 R-60 l^2 r^2 R^2-48 r^4 R^2-64 r^3 R^3\right)}{9\left(5 l^2+r^2+4 r R\right)^2}\}$$

$$\{X2,\ CENTROID,\ X87,\ X(2)\text{-}CROSS\ CONJUGATE\ OF\ X(1),$$
$$\left(l^{10}+9 l^8 r^2+26 l^6 r^4+34 l^4 r^6+21 l^2 r^8+5 r^{10}-32 l^8 r R-224 l^6 r^3 R-224 l^4 r^5 R+96 l^2 r^7 R+128 r^9 R+288 l^6 r^2 R^2+1568 l^4 r^4 R^2-1824 l^2 r^6 R^2+992 r^8 R^2-256 l^4 r^3 R^3-1536 l^2 r^5 R^3+2816 r^7 R^3-3840 l^2 r^4 R^4+1280 r^6 R^4-4096 r^5 R^5\right)\Big/\left(9\left(l^4+2 l^2 r^2+r^4-20 l^2 r R+12 r^3 R+32 r^2 R^2\right)^2\right)\}$$

$$\{X2,\ CENTROID,\ X88,\ ISOGONAL\ CONJUGATE\ OF\ X(44),$$
$$\frac{l^6-7 l^4 r^2-33 l^2 r^4-9 r^6-28 l^4 r R+168 l^2 r^3 R-108 r^5 R+228 l^2 r^2 R^2-432 r^4 R^2-576 r^3 R^3}{9\left(l^2+3 r^2-15 r R\right)^2}\}$$

$$\{X2,\ CENTROID,\ X89,\ ISOGONAL\ CONJUGATE\ OF\ X(45),$$
$$\frac{4\left(l^6+17 l^4 r^2-57 l^2 r^4-9 r^6-4 l^4 r R-24 l^2 r^3 R-108 r^5 R-156 l^2 r^2 R^2-432 r^4 R^2-576 r^3 R^3\right)}{9\left(2 l^2-6 r^2+3 r R\right)^2}\}$$

$$\{X2,\ CENTROID,\ X90,\ X(3)\text{-}CROSS\ CONJUGATE\ OF\ X(1),$$
$$-\frac{5 l^2 r^4+r^6-22 l^2 r^3 R+14 r^5 R+4 l^2 r^2 R^2+60 r^4 R^2-2 l^2 r R^3+82 r^3 R^3-l^2 R^4+3 r^2 R^4+16 r R^5}{9\left(r^2+2 r R-R^2\right)^2}\}$$

$$\{X2,\ CENTROID,\ X91,\ ISOGONAL\ CONJUGATE\ OF\ X(47),$$
$$\left(4 l^6 r^2+4 l^4 r^4-4 l^2 r^6-4 r^8+4 l^6 r R-88 l^4 r^3 R+132 l^2 r^5 R-64 r^7 R+l^6 R^2-109 l^4 r^2 R^2+539 l^2 r^4 R^2-391 r^6 R^2-40 l^4 r R^3+816 l^2 r^3 R^3-1160 r^5 R^3-4 l^4 R^4+464 l^2 r^2 R^4-1772 r^4 R^4+96 l^2 r R^5-1392 r^3 R^5+4 l^2 R^6-492 r^2 R^6-64 r R^7\right)\Big/\left(9\left(l^2 r+r^3-l^2 R+3 r^2 R+2 r R^2+2 R^3\right)^2\right)\}$$

$$\{X2,\ CENTROID,\ X92,\ CEVAPOINT\ OF\ INCENTER\ AND\ CLAWSON\ POINT,$$
$$\frac{1}{9\left(l^2+r^2-4 R^2\right)^2}4\left(l^6+l^4 r^2-l^2 r^4-r^6-28 l^4 r R+28 l^2 r^3 R-16 r^5 R-8 l^4 R^2+144 l^2 r^2 R^2-100 r^4 R^2+176 l^2 r R^3-304 r^3 R^3+16 l^2 R^4-448 r^2 R^4-256 r R^5\right)\}$$

$$\{X2,\ CENTROID,\ X93,\ ISOGONAL\ CONJUGATE\ OF\ X(49),$$
$$\left(4\left(l^{10}+3 l^8 r^2+2 l^6 r^4-2 l^4 r^6-3 l^2 r^8-r^{10}-20 l^8 r R-16 l^6 r^3 R+8 l^4 r^5 R-16 l^2 r^7 R-20 r^9 R-7 l^8 R^2+4 l^6 r^2 R^2+182 l^4 r^4 R^2-60 l^2 r^6 R^2-167 r^8 R^2+112 l^6 r R^3+496 l^4 r^3 R^3-368 l^2 r^5 R^3-752 r^7 R^3+9 l^6 R^4+329 l^4 r^2 R^4-1321 l^2 r^4 R^4-1961 r^6 R^4-108 l^4 r R^5-2104 l^2 r^3 R^5-2924 r^5 R^5+17 l^4 R^6-1306 l^2 r^2 R^6-2207 r^4 R^6-136 l^2 r R^7-440 r^3 R^7-20 l^2 R^8+292 r^2 R^8+80 r R^9+9 R^{10}\right)\right)\Big/\left(9\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-8 l^2 R^2+24 r^2 R^2+32 r R^3+13 R^4\right)^2\right)\}$$

$$\{X2, \text{CENTROID}, X94, \text{ISOGONAL CONJUGATE OF } X(50),$$
$$\left(4\left(l^{10}+3 l^8 r^2+2 l^6 r^4-2 l^4 r^6-3 l^2 r^8-r^{10}-20 l^8 r R-16 l^6 r^3 R+8 l^4 r^5 R-16 l^2 r^7 R-20 r^9 R-6 l^8 R^2+16 l^6 r^2 R^2+204 l^4 r^4 R^2-48 l^2 r^6 R^2-166 r^8 R^2+96 l^6 r R^3+416 l^4 r^3 R^3-288 l^2 r^5 R^3-736 r^7 R^3+9 l^6 R^4+153 l^4 r^2 R^4-985 l^2 r^4 R^4-1865 r^6 R^4-108 l^4 r R^5-1272 l^2 r^3 R^5-2668 r^5 R^5-540 l^2 r^2 R^6-1968 r^4 R^6-576 r^3 R^7\right)\right)/$$
$$\left(9\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-12 l^2 R^2+28 r^2 R^2+48 r R^3+27 R^4\right)^2\right)\}$$

$$\{X2, \text{CENTROID}, X95, \text{CEVAPOINT OF CENTROID AND CIRCUMCENTER},$$
$$\left(4\left(l^{10}+11 l^8 r^2-118 l^6 r^4+118 l^4 r^6-11 l^2 r^8-r^{10}-20 l^8 r R-112 l^6 r^3 R+584 l^4 r^5 R-112 l^2 r^7 R-20 r^9 R-8 l^8 R^2-28 l^6 r^2 R^2+1016 l^4 r^4 R^2-476 l^2 r^6 R^2-168 r^8 R^2+128 l^6 r R^3+736 l^4 r^3 R^3-1120 l^2 r^5 R^3-768 r^7 R^3+16 l^6 R^4+240 l^4 r^2 R^4-1712 l^2 r^4 R^4-2064 r^6 R^4-192 l^4 r R^5-1792 l^2 r^3 R^5-3264 r^5 R^5-960 l^2 r^2 R^6-2816 r^4 R^6-1024 r^3 R^7\right)\right)/$$
$$\left(9\left(l^4+18 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-4 l^2 R^2+20 r^2 R^2+16 r R^3\right)^2\right)\}$$

$$\{X2, \text{CENTROID}, X96, \text{ISOGONAL CONJUGATE OF } X(52),$$
$$-\left(\left(4\left(l^2-r^2-4 r R-2 R^2\right)^2\left(2 l^6-30 l^4 r^2+30 l^2 r^4-2 r^6-24 l^4 r R+144 l^2 r^3 R-24 r^5 R-19 l^4 R^2+266 l^2 r^2 R^2-115 r^4 R^2+152 l^2 r R^3-280 r^3 R^3+44 l^2 R^4-348 r^2 R^4-176 r R^5-36 R^6\right)\right)/$$
$$\left(9\left(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2-4 R^4\right)^2\right)\right)\}$$

$$\{X2, \text{CENTROID}, X97, \text{ISOGONAL CONJUGATE OF } X(53),$$
$$\left(l^{10}+11 l^8 r^2-118 l^6 r^4+118 l^4 r^6-11 l^2 r^8-r^{10}-20 l^8 r R-112 l^6 r^3 R+584 l^4 r^5 R-112 l^2 r^7 R-20 r^9 R-8 l^8 R^2-28 l^6 r^2 R^2+1016 l^4 r^4 R^2-476 l^2 r^6 R^2-168 r^8 R^2+128 l^6 r R^3+736 l^4 r^3 R^3-1120 l^2 r^5 R^3-768 r^7 R^3+16 l^6 R^4+240 l^4 r^2 R^4-1712 l^2 r^4 R^4-2064 r^6 R^4-192 l^4 r R^5-1792 l^2 r^3 R^5-3264 r^5 R^5-960 l^2 r^2 R^6-2816 r^4 R^6-1024 r^3 R^7\right)/$$
$$\left(9\left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-7 l^2 R^2+23 r^2 R^2+28 r R^3+12 R^4\right)^2\right)\}$$

$$\left\{X2, \text{CENTROID}, X98, \text{TarryPoint}, -\frac{4\left(l^2-r^2-4 r R\right)^2\left(2 l^2-2 r^2-8 r R-9 R^2\right)}{9\left(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)}\right\}$$

$$\{X2, \text{CENTROID}, X99, \text{STEINER POINT},$$
$$\frac{4\left(l^6+9 l^4 r^2-9 l^2 r^4-r^6-12 l^4 r R-24 l^2 r^3 R-12 r^5 R-60 l^2 r^2 R^2-48 r^4 R^2-64 r^3 R^3\right)}{9\left(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)}\}$$

$$\left\{X2, \text{CENTROID}, X100, \text{ANTICOMPLEMENT OF FEUERBACH POINT}, \frac{4\left(-l^2 r+r^3-l^2 R+8 r^2 R+16 r R^2\right)}{9(2 r-R)}\right\}$$

$$\{X3, \text{CIRCUMCENTER}, X4, \text{ORTHOCENTER}, -2 l^2+2 r^2+8 r R+9 R^2\}$$

$$\left\{X3, \text{CIRCUMCENTER}, X5, \text{NINE-POINT CENTER}, \frac{1}{4}\left(-2 l^2+2 r^2+8 r R+9 R^2\right)\right\}$$

$$\left\{X3, \text{CIRCUMCENTER}, X6, \text{SYMMEDIAN POINT}, \frac{R^2\left(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)}{\left(l^2-r^2-4 r R\right)^2}\right\}$$

$$\left\{X3, \text{CIRCUMCENTER}, X7, \text{GERGONNE POINT}, \frac{-4 l^2 r^2-4 l^2 r R+r^2 R^2+8 r R^3+16 R^4}{(r+4 R)^2}\right\}$$

$$\{X3, \text{CIRCUMCENTER}, X8, \text{NAGEL POINT}, (2 r-R)^2\}$$

$$\left\{X3, \text{CIRCUMCENTER}, X9, \text{MITTENPUNKT}, \frac{R\left(2 l^2 r-4 l^2 R+r^2 R+8 r R^2+16 R^3\right)}{(r+4 R)^2}\right\}$$

$$\left\{X3, \text{CIRCUMCENTER}, X10, \text{SPIEKER CENTER}, \frac{1}{4}\left(-l^2+3 r^2+4 r R+4 R^2\right)\right\}$$

$$\left\{X3, \text{CIRCUMCENTER}, X11, \text{FEUERBACH POINT}, \frac{-l^2 r+r^3+5 r^2 R+6 r R^2-R^3}{2 r-R}\right\}$$

$$\{X3, \text{CIRCUMCENTER}, X12, \{X(1), X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),$$
$$\frac{-2 l^2 r^2+2 r^4-l^2 r R+7 r^3 R+11 r^2 R^2+4 r R^3+R^4}{(2 r+R)^2}\}$$

$$\left\{X3,\ \text{CIRCUMCENTER},\ X13,\ \text{FERMAT POINT},\ -\frac{4\sqrt{3}\,l^3 r+8 l^2 r^2-4\sqrt{3}\,l r^3-16\sqrt{3}\,l r^2 R-3 l^2 R^2-18\sqrt{3}\,l r R^2+3 r^2 R^2+12 r R^3}{3\left(l^2+2\sqrt{3}\,l r-r^2-4 r R\right)}\right\}$$

$$\left\{X3,\ \text{CIRCUMCENTER},\ X14,\ \text{2nd ISOGONIC CENTER},\ \frac{4\sqrt{3}\,l^3 r-8 l^2 r^2-4\sqrt{3}\,l r^3-16\sqrt{3}\,l r^2 R+3 l^2 R^2-18\sqrt{3}\,l r R^2-3 r^2 R^2-12 r R^3}{3\left(l^2-2\sqrt{3}\,l r-r^2-4 r R\right)}\right\}$$

$$\left\{X3,\ \text{CIRCUMCENTER},\ X15,\ \text{1st ISODYNAMIC POINT},\ \frac{R^2\left(-l^2+2\sqrt{3}\,l r+r^2+4 r R\right)}{-l^2-2\sqrt{3}\,l r+r^2+4 r R}\right\}$$

$$\left\{X3,\ \text{CIRCUMCENTER},\ X16,\ \text{2nd ISODYNAMIC POINT},\ \frac{R^2\left(-l^2-2\sqrt{3}\,l r+r^2+4 r R\right)}{-l^2+2\sqrt{3}\,l r+r^2+4 r R}\right\}$$

$$\left\{X3,\ \text{CIRCUMCENTER},\ X17,\ \text{1st NAPOLEON POINT},\ -\left(\left(3\left(l^2+2\sqrt{3}\,l r-r^2-4 r R\right)\left(4\sqrt{3}\,l^3 r+8 l^2 r^2-4\sqrt{3}\,l r^3-16\sqrt{3}\,l r^2 R-3 l^2 R^2-18\sqrt{3}\,l r R^2+3 r^2 R^2+12 r R^3\right)\right)\Big/\left(3 l^2+10\sqrt{3}\,l r-3 r^2-12 r R\right)^2\right)\right\}$$

$$\left\{X3,\ \text{CIRCUMCENTER},\ X18,\ \text{2nd NAPOLEON POINT},\ \left(3\left(l^2-2\sqrt{3}\,l r-r^2-4 r R\right)\left(4\sqrt{3}\,l^3 r-8 l^2 r^2-4\sqrt{3}\,l r^3-16\sqrt{3}\,l r^2 R+3 l^2 R^2-18\sqrt{3}\,l r R^2-3 r^2 R^2-12 r R^3\right)\right)\Big/\left(3 l^2-10\sqrt{3}\,l r-3 r^2-12 r R\right)^2\right\}$$

$$\left\{X3,\ \text{CIRCUMCENTER},\ X19,\ \text{CLAWSON POINT},\ -\frac{R\left(4 l^4 r-4 l^2 r^3+3 l^4 R-18 l^2 r^2 R-r^4 R-20 l^2 r R^2-12 r^3 R^2-52 r^2 R^3-96 r R^4-64 R^5\right)}{\left(l^2-r^2-6 r R-8 R^2\right)^2}\right\}$$

$$\left\{X3,\ \text{CIRCUMCENTER},\ X20,\ \text{DE LONGCHAMPS POINT},\ -2 l^2+2 r^2+8 r R+9 R^2\right\}$$

$$\left\{X3,\ \text{CIRCUMCENTER},\ X21,\ \text{SCHIFFLER POINT},\ \frac{R^2\left(-2 l^2+2 r^2+8 r R+9 R^2\right)}{(2 r+3 R)^2}\right\}$$

$$\left\{X3,\ \text{CIRCUMCENTER},\ X22,\ \text{ExeterPoint},\ -\frac{R^4\left(2 l^2-2 r^2-8 r R-9 R^2\right)}{\left(l^2-r^2-4 r R-3 R^2\right)^2}\right\}$$

$$\left\{X3,\ \text{CIRCUMCENTER},\ X23,\ \text{FarOutPoint},\ \frac{9 R^4}{-2 l^2+2 r^2+8 r R+9 R^2}\right\}$$

$$\left\{X3,\ \text{CIRCUMCENTER},\ X24,\ \text{PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE},\ -\frac{R^4\left(2 l^2-2 r^2-8 r R-9 R^2\right)}{\left(l^2-r^2-4 r R-5 R^2\right)^2}\right\}$$

$$\left\{X3,\ \text{CIRCUMCENTER},\ X25,\ \text{HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES},\ -\frac{4 R^4\left(2 l^2-2 r^2-8 r R-9 R^2\right)}{\left(l^2-r^2-4 r R-6 R^2\right)^2}\right\}$$

$$\left\{X3,\ \text{CIRCUMCENTER},\ X26,\ \text{CIRCUMCENTER OF THE TANGENTIAL TRIANGLE},\ -\frac{R^4\left(2 l^2-2 r^2-8 r R-9 R^2\right)}{(l-r-2 R)^2\,(l+r+2 R)^2}\right\}$$

$$\left\{X3,\ \text{CIRCUMCENTER},\ X27,\ \text{CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER},\ -\frac{\left(2 l^2-2 r^2-8 r R-9 R^2\right)\left(l^2+r^2+4 r R+4 R^2\right)^2}{\left(l^2-3 r^2-12 r R-12 R^2\right)^2}\right\}$$

$$\left\{X3,\ \text{CIRCUMCENTER},\ X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),\ -\frac{R^2\,(r+2R)^2\,\left(2\,l^2-2\,r^2-8\,r\,R-9\,R^2\right)}{\left(l^2-r^2-5\,r\,R-6\,R^2\right)^2}\right\}$$

$$\left\{X3,\ \text{CIRCUMCENTER},\ X29,\ \text{CEVAPOINT OF INCENTER AND ORTHOCENTER},\ -\frac{\left(2\,l^2-2\,r^2-8\,r\,R-9\,R^2\right)\,\left(l^2+r^2-4\,R^2\right)^2}{\left(3\,l^2-r^2-8\,r\,R-12\,R^2\right)^2}\right\}$$

$$\left\{X3,\ \text{CIRCUMCENTER},\ X30,\ \text{EulerInfinityPoint},\ \infty\right\}$$

$$\left\{X3,\ \text{CIRCUMCENTER},\ X31,\ \text{SecondPowerPoint},\ \frac{R^2\,\left(l^4-10\,l^2\,r^2+5\,r^4-12\,l^2\,r\,R+20\,r^3\,R+36\,r^2\,R^2\right)}{\left(l^2-3\,r^2-6\,r\,R\right)^2}\right\}$$

$$\left\{X3,\ \text{CIRCUMCENTER},\ X32,\ \text{ThirdPowerPoint},\ \frac{R^2\,\left(l^2-r^2-4\,r\,R\right)^2\,\left(l^4-14\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R+16\,r^2\,R^2\right)}{\left(l^2-2\,l\,r-r^2-4\,r\,R\right)^2\,\left(l^2+2\,l\,r-r^2-4\,r\,R\right)^2}\right\}$$

$$\left\{X3,\ \text{CIRCUMCENTER},\ X33,\ \text{PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES},\ -\frac{R\,\left(4\,l^4\,r-4\,l^2\,r^3-l^4\,R-18\,l^2\,r^2\,R+3\,r^4\,R-28\,l^2\,r\,R^2+28\,r^3\,R^2+8\,l^2\,R^3+68\,r^2\,R^3+48\,r\,R^4-16\,R^5\right)}{\left(l^2-r^2-2\,r\,R-4\,R^2\right)^2}\right\}$$

$$\left\{X3,\ \text{CIRCUMCENTER},\ X34,\ X(4)\text{-BETH CONJUGATE OF } X(4),\ \frac{R\,\left(4\,l^2\,r^3-4\,r^5+l^4\,R-6\,l^2\,r^2\,R-11\,r^4\,R-12\,l^2\,r\,R^2+12\,r^3\,R^2-8\,l^2\,R^3+60\,r^2\,R^3+48\,r\,R^4+16\,R^5\right)}{\left(l^2-r^2-6\,r\,R-4\,R^2\right)^2}\right\}$$

$$\left\{X3,\ \text{CIRCUMCENTER},\ X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),\ -\frac{(2\,r-R)\,R^3}{(2\,r+R)^2}\right\}$$

$$\left\{X3,\ \text{CIRCUMCENTER},\ X36,\ \text{INVERSE-IN-CIRCUMCIRCLE OF INCENTER},\ -\frac{R^3}{2\,r-R}\right\}$$

$$\left\{X3,\ \text{CIRCUMCENTER},\ X37,\ \text{CrosspointOfIncenterAndCentroid},\ -\frac{R\,\left(4\,l^4\,r-4\,l^2\,r^3-l^4\,R-6\,l^2\,r^2\,R-r^4\,R-8\,l^2\,r\,R^2-8\,r^3\,R^2-16\,r^2\,R^3\right)}{\left(l^2+r^2+4\,r\,R\right)^2}\right\}$$

$$\left\{X3,\ \text{CIRCUMCENTER},\ X38,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(75),\ -\frac{R\,\left(4\,l^4\,r-16\,l^2\,r^3+12\,r^5-l^4\,R-38\,l^2\,r^2\,R+75\,r^4\,R+4\,l^2\,r\,R^2+116\,r^3\,R^2-4\,r^2\,R^3\right)}{\left(l^2+r^2-2\,r\,R\right)^2}\right\}$$

$$\left\{X3,\ \text{CIRCUMCENTER},\ X39,\ \text{BrocardMidpoint},\ \frac{R^2\,\left(l^2-r^2-4\,r\,R\right)^2\,\left(l^4-14\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R+16\,r^2\,R^2\right)}{\left(l^4+2\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R+16\,r^2\,R^2\right)^2}\right\}$$

$$\left\{X3,\ \text{CIRCUMCENTER},\ X40,\ \text{BEVAN POINT},\ -(2\,r-R)\,R\right\}$$

$$\left\{X3,\ \text{CIRCUMCENTER},\ X41,\ X(6)\text{-CEVA CONJUGATE OF } X(31),\ \left(R^2\,\left(5\,l^4\,r^2-10\,l^2\,r^4+r^6+12\,l^4\,r\,R-84\,l^2\,r^3\,R+16\,r^5\,R+4\,l^4\,R^2-192\,l^2\,r^2\,R^2+96\,r^4\,R^2-64\,l^2\,r\,R^3+256\,r^3\,R^3+256\,r^2\,R^4\right)\right)\Big/\left(3\,l^2\,r-r^3+2\,l^2\,R-8\,r^2\,R-16\,r\,R^2\right)^2\right\}$$

$$\left\{X3,\ \text{CIRCUMCENTER},\ X42,\ \text{CROSSPOINT OF INCENTER AND SYMMEDIAN POINT},\ \frac{R^2\,\left(l^4-18\,l^2\,r^2-3\,r^4-4\,l^2\,r\,R-20\,r^3\,R+4\,r^2\,R^2\right)}{\left(l^2+r^2-2\,r\,R\right)^2}\right\}$$

$$\left\{X3,\ \text{CIRCUMCENTER},\ X43,\ X(6)\text{-CEVA CONJUGATE OF } X(1),\ \frac{R\left(2 l^4 r+4 l^2 r^3+2 r^5+l^4 R-38 l^2 r^2 R+25 r^4 R-16 l^2 r R^2+48 r^3 R^2+64 r^2 R^3\right)}{\left(l^2+r^2-8 r R\right)^2}\right\}$$

$$\left\{X3,\ \text{CIRCUMCENTER},\ X44,\ X(6)\text{-LINE CONJUGATE OF } X(1),\ \frac{R\left(4 l^4 r+12 l^2 r^3+l^4 R-66 l^2 r^2 R+9 r^4 R-24 l^2 r R^2+72 r^3 R^2+144 r^2 R^3\right)}{\left(l^2-3 r^2-12 r R\right)^2}\right\}$$

$$\left\{X3,\ \text{CIRCUMCENTER},\ X45,\ X(9)\text{-BETH CONJUGATE OF } X(1),\ -\frac{R\left(8 l^4 r-24 l^2 r^3-l^4 R+6 l^2 r^2 R-9 r^4 R-24 l^2 r R^2-72 r^3 R^2-144 r^2 R^3\right)}{\left(l^2+3 r^2+12 r R\right)^2}\right\}$$

$$\left\{X3,\ \text{CIRCUMCENTER},\ X46,\ X(4)\text{-CEVA CONJUGATE OF } X(1),\ -\frac{(2 r-R)\ R\ (r+R)^2}{(r-R)^2}\right\}$$

$$\left\{X3,\ \text{CIRCUMCENTER},\ X47,\ X(110)\text{-BETH CONJUGATE OF } X(34),\ \frac{R^2\left(l^4-10 l^2 r^2+5 r^4-8 l^2 r R+24 r^3 R-4 l^2 R^2+40 r^2 R^2+16 r R^3+4 R^4\right)}{\left(l^2-3 r^2-6 r R-2 R^2\right)^2}\right\}$$

$$\left\{X3,\ \text{CIRCUMCENTER},\ X48,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(63),\ \frac{R^2\left(5 l^4-10 l^2 r^2+r^4-36 l^2 r R+12 r^3 R-32 l^2 R^2+52 r^2 R^2+96 r R^3+64 R^4\right)}{\left(3 l^2-r^2-6 r R-8 R^2\right)^2}\right\}$$

$$\left\{X3,\ \text{CIRCUMCENTER},\ X49,\ \text{CENTER OF SINE-TRIPLE-ANGLE CIRCLE},\ \frac{R^2\left(3 l^4-10 l^2 r^2+3 r^4-24 l^2 r R+24 r^3 R-20 l^2 R^2+68 r^2 R^2+80 r R^3+36 R^4\right)}{\left(2 l^2-2 r^2-8 r R-7 R^2\right)^2}\right\}$$

$$\left\{X3,\ \text{CIRCUMCENTER},\ X50,\ X(74)\text{-CEVA CONJUGATE OF } X(184),\ \frac{R^2\left(l^2-r^2-4 r R-3 R^2\right)^2\left(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)}{\left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-3 l^2 R^2+19 r^2 R^2+12 r R^3\right)^2}\right\}$$

$$\left\{X3,\ \text{CIRCUMCENTER},\ X51,\ \text{CENTROID OF ORTHIC TRIANGLE},\ \frac{-l^4-18 l^2 r^2-r^4+8 l^2 r R-8 r^3 R+4 l^2 R^2-20 r^2 R^2-16 r R^3+36 R^4}{36 R^2}\right\}$$

$$\left\{X3,\ \text{CIRCUMCENTER},\ X52,\ \text{ORTHOCENTER OF ORTHIC TRIANGLE},\ \frac{l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2}{4 R^2}\right\}$$

$$\left\{X3,\ \text{CIRCUMCENTER},\ X53,\ \text{SYMMEDIAN POINT OF ORTHIC TRIANGLE},\ \frac{1}{\left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-4 l^2 R^2+20 r^2 R^2+16 r R^3\right)^2}\left(4 l^8 r^2-28 l^6 r^4+28 l^4 r^6-4 l^2 r^8-48 l^6 r^3 R+160 l^4 r^5 R-48 l^2 r^7 R+l^8 R^2-56 l^6 r^2 R^2+382 l^4 r^4 R^2-248 l^2 r^6 R^2+r^8 R^2-16 l^6 r R^3+464 l^4 r^3 R^3-720 l^2 r^5 R^3+16 r^7 R^3-8 l^6 R^4+312 l^4 r^2 R^4-1240 l^2 r^4 R^4+104 r^6 R^4+96 l^4 r R^5-1216 l^2 r^3 R^5+352 r^5 R^5+16 l^4 R^6-608 l^2 r^2 R^6+656 r^4 R^6-128 l^2 r R^7+640 r^3 R^7+256 r^2 R^8\right)\right\}$$

$$\left\{X3,\ \text{CIRCUMCENTER},\ X54,\ \text{KosnitaPoint},\ \frac{R^2\left(2 l^4-12 l^2 r^2+2 r^4-16 l^2 r R+16 r^3 R-8 l^2 R^2+40 r^2 R^2+32 r R^3+9 R^4\right)}{\left(2 l^2-2 r^2-8 r R-5 R^2\right)^2}\right\}$$

$$\left\{X3,\ \text{CIRCUMCENTER},\ X55,\ \text{INSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ -\frac{(2 r-R)\ R^3}{(r+R)^2}\right\}$$

$$\left\{X3,\ \text{CIRCUMCENTER},\ X56,\ \text{EXSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ -\frac{(2r-R)\,R^3}{(r-R)^2}\right\}$$

$$\left\{X3,\ \text{CIRCUMCENTER},\ X57,\ \text{ISOGONAL CONJUGATE OF } X(9),\ -\frac{(2r-R)\,R\,(r+2R)^2}{(r-2R)^2}\right\}$$

$$\left\{X3,\ \text{CIRCUMCENTER},\ X58,\ \text{ISOGONAL CONJUGATE OF } X(10),\ \frac{R^2\left(l^4-14\,l^2r^2+r^4-8\,l^2r\,R+8\,r^3R+16\,r^2R^2\right)}{\left(l^2-3\,r^2-4\,r\,R\right)^2}\right\}$$

$$\left\{X3,\ \text{CIRCUMCENTER},\ X59,\ \text{ISOGONAL CONJUGATE OF } X(11),\ \frac{R^2\left(l^4r-6\,l^2r^3+r^5-l^4R+2\,l^2r^2R+7\,r^4R-2\,l^2r\,R^2+8\,r^3R^2+8\,l^2R^3-17\,r^2R^3-8\,r\,R^4-16\,R^5\right)}{(2r-R)\left(-l^2+r^2+5\,r\,R+4\,R^2\right)^2}\right\}$$

$$\left\{X3,\ \text{CIRCUMCENTER},\ X60,\ \text{ISOGONAL CONJUGATE OF } X(12),\ \left(R^2\left(2\,l^4r^2-12\,l^2r^4+2\,r^6+3\,l^4r\,R-42\,l^2r^3R+19\,r^5R+l^4R^2-46\,l^2r^2R^2+65\,r^4R^2-14\,l^2r\,R^3+94\,r^3R^3+49\,r^2R^4\right)\right)\Big/\left(2\,l^2r-2\,r^3+l^2R-7\,r^2R-7\,r\,R^2\right)^2\right\}$$

$$\left\{X3,\ \text{CIRCUMCENTER},\ X61,\ \text{ISOGONAL CONJUGATE OF } X(17),\ \frac{9\,R^2\left(-l^2-2\sqrt{3}\,l\,r+r^2+4\,r\,R\right)\left(-l^2+2\sqrt{3}\,l\,r+r^2+4\,r\,R\right)}{\left(3\,l^2+2\sqrt{3}\,l\,r-3\,r^2-12\,r\,R\right)^2}\right\}$$

$$\left\{X3,\ \text{CIRCUMCENTER},\ X62,\ \text{ISOGONAL CONJUGATE OF } X(18),\ \frac{9\,R^2\left(-l^2-2\sqrt{3}\,l\,r+r^2+4\,r\,R\right)\left(-l^2+2\sqrt{3}\,l\,r+r^2+4\,r\,R\right)}{\left(3\,l^2-2\sqrt{3}\,l\,r-3\,r^2-12\,r\,R\right)^2}\right\}$$

$$\left\{X3,\ \text{CIRCUMCENTER},\ X63,\ \text{ISOGONAL CONJUGATE OF } X(19),\ -\frac{R\left(-l^2r+r^3+5\,r^2R+6\,r\,R^2-R^3\right)}{(r+R)^2}\right\}$$

$$\left\{X3,\ \text{CIRCUMCENTER},\ X64,\ \text{ISOGONAL CONJUGATE OF } X(20),\ \frac{R^2\left(5\,l^4-6\,l^2r^2+5\,r^4-40\,l^2r\,R+40\,r^3R-56\,l^2R^2+136\,r^2R^2+224\,r\,R^3+144\,R^4\right)}{(l-r-2R)^2\,(l+r+2R)^2}\right\}$$

$$\left\{X3,\ \text{CIRCUMCENTER},\ X65,\ \text{ORTHOCENTER OF THE INTOUCH TRIANGLE},\ \frac{(-2r+R)\,(r+R)^2}{R}\right\}$$

$$\left\{X3,\ \text{CIRCUMCENTER},\ X66,\ \text{ISOGONAL CONJUGATE OF } X(22),\ -\left(\left(\left(l^2-r^2-4\,r\,R-2\,R^2\right)^2\left(l^6-7\,l^4r^2+7\,l^2r^4-r^6-12\,l^4r\,R+40\,l^2r^3R-12\,r^5R-4\,l^4R^2+68\,l^2r^2R^2-52\,r^4R^2+32\,l^2r\,R^3-96\,r^3R^3-64\,r^2R^4\right)\right)\Big/\left((l-r-2R)^2\,(l+r+2R)^2\left(l^2-r^2-4\,r\,R\right)^2\right)\right)\right\}$$

$$\left\{X3,\ \text{CIRCUMCENTER},\ X67,\ \text{ISOGONAL CONJUGATE OF } X(23),\ -\frac{\left(l^2-r^2-4\,r\,R-3\,R^2\right)^2\left(l^4-14\,l^2r^2+r^4-8\,l^2r\,R+8\,r^3R+16\,r^2R^2\right)}{\left(l^2-r^2-4\,r\,R\right)^2\left(2\,l^2-2\,r^2-8\,r\,R-9\,R^2\right)}\right\}$$

$$\left\{X3,\ \text{CIRCUMCENTER},\ X68,\ \text{PRASOLOV POINT},\ -\left(\left(l^6-7\,l^4r^2+7\,l^2r^4-r^6-12\,l^4r\,R+40\,l^2r^3R-12\,r^5R-10\,l^4R^2+88\,l^2r^2R^2-58\,r^4R^2+80\,l^2r\,R^3-144\,r^3R^3+32\,l^2R^4-192\,r^2R^4-128\,r\,R^5-36\,R^6\right)\Big/\left((l-r-2R)^2\,(l+r+2R)^2\right)\right)\right\}$$

$$\left\{X3,\ \text{CIRCUMCENTER},\ X69,\ \text{SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},\ \frac{8\,l^4r^2-8\,l^2r^4-32\,l^2r^3R+l^4R^2-50\,l^2r^2R^2+r^4R^2-8\,l^2r\,R^3+8\,r^3R^3+16\,r^2R^4}{\left(l^2-r^2-4\,r\,R\right)^2}\right\}$$

$$\{X3,\ \text{CIRCUMCENTER},\ X70,\ \text{ISOGONAL CONJUGATE OF } X(26),\ -\left(\left(\left(l^2-r^2-4\,r\,R-3\,R^2\right)^2\left(l^6-7\,l^4\,r^2+7\,l^2\,r^4-r^6-12\,l^4\,r\,R+40\,l^2\,r^3\,R-12\,r^5\,R-7\,l^4\,R^2+78\,l^2\,r^2\,R^2-55\,r^4\,R^2+56\,l^2\,r\,R^3-120\,r^3\,R^3+14\,l^2\,R^4-126\,r^2\,R^4-56\,r\,R^5-9\,R^6\right)\right)\Big/\left(l^4-2\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-6\,l^2\,R^2+22\,r^2\,R^2+24\,r\,R^3+7\,R^4\right)^2\right)\}$$

$$\{X3,\ \text{CIRCUMCENTER},\ X71,\ \text{ISOGONAL CONJUGATE OF } X(27),\ \frac{R^2\left(5\,l^4-10\,l^2\,r^2+r^4-36\,l^2\,r\,R+12\,r^3\,R-32\,l^2\,R^2+52\,r^2\,R^2+96\,r\,R^3+64\,R^4\right)}{\left(l^2+r^2+6\,r\,R+8\,R^2\right)^2}\}$$

$$\{X3,\ \text{CIRCUMCENTER},\ X72,\ \text{ISOGONAL CONJUGATE OF } X(28),\ \frac{l^2\,r-r^3-5\,r^2\,R-6\,r\,R^2+R^3}{R}\}$$

$$\{X3,\ \text{CIRCUMCENTER},\ X73,\ \text{CROSSPOINT OF INCENTER AND CIRCUMCENTER},\ \frac{R^2\left(l^4-10\,l^2\,r^2+5\,r^4-4\,l^2\,r\,R+28\,r^3\,R-8\,l^2\,R^2+44\,r^2\,R^2+16\,r\,R^3+16\,R^4\right)}{\left(l^2+r^2-2\,r\,R-4\,R^2\right)^2}\}$$

$$\{X3,\ \text{CIRCUMCENTER},\ X74,\ \text{ISOGONAL CONJUGATE OF EULER INFINITY POINT},\ R^2\}$$

$$\{X3,\ \text{CIRCUMCENTER},\ X75,\ \text{ISOTOMIC CONJUGATE OF INCENTER},\ -\frac{R\left(8\,l^4\,r-24\,l^2\,r^3-l^4\,R-50\,l^2\,r^2\,R-r^4\,R-8\,l^2\,r\,R^2-8\,r^3\,R^2-16\,r^2\,R^3\right)}{\left(l^2+r^2+4\,r\,R\right)^2}\}$$

$$\{X3,\ \text{CIRCUMCENTER},\ X76,\ \text{3rd BROCARD POINT},\ \frac{R^2\left(l^4-14\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R+16\,r^2\,R^2\right)^2}{\left(l^4+2\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R+16\,r^2\,R^2\right)^2}\}$$

$$\{X3,\ \text{CIRCUMCENTER},\ X77,\ \text{ISOGONAL CONJUGATE OF } X(33),\ -\frac{R\left(l^4\,r-l^2\,r^3-l^4\,R-2\,l^2\,r^2\,R-2\,l^2\,r\,R^2+8\,l^2\,R^3-r^2\,R^3-8\,r\,R^4-16\,R^5\right)}{\left(l^2-r\,R-4\,R^2\right)^2}\}$$

$$\{X3,\ \text{CIRCUMCENTER},\ X78,\ \text{ISOGONAL CONJUGATE OF } X(34),\ -\frac{R\left(-l^2\,r+r^3+5\,r^2\,R+6\,r\,R^2-R^3\right)}{(r-R)^2}\}$$

$$\{X3,\ \text{CIRCUMCENTER},\ X79,\ \text{ISOGONAL CONJUGATE OF } X(35),\ \frac{-12\,l^2\,r^2+4\,r^4-6\,l^2\,r\,R+26\,r^3\,R+52\,r^2\,R^2+30\,r\,R^3+9\,R^4}{(2\,r+3\,R)^2}\}$$

$$\{X3,\ \text{CIRCUMCENTER},\ X80,\ \text{REFLECTION OF INCENTER IN FEUERBACH POINT},\ \frac{-2\,l^2\,r+6\,r^3+12\,r^2\,R+8\,r\,R^2-R^3}{2\,r-R}\}$$

$$\{X3,\ \text{CIRCUMCENTER},\ X81,\ \text{CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},\ -\frac{R\left(l^4\,r+2\,l^2\,r^3+r^5-l^4\,R+8\,l^2\,r^2\,R+5\,r^4\,R+2\,l^2\,r\,R^2+6\,r^3\,R^2-r^2\,R^3\right)}{\left(l^2-r^2-r\,R\right)^2}\}$$

$$\{X3,\ \text{CIRCUMCENTER},\ X82,\ \text{ISOGONAL CONJUGATE OF } X(38),\ -\left(\left(R\left(l^8\,r+2\,l^6\,r^3-2\,l^2\,r^7-r^9-l^8\,R-6\,l^6\,r^2\,R-28\,l^4\,r^4\,R+22\,l^2\,r^6\,R-19\,r^8\,R+18\,l^6\,r\,R^2-46\,l^4\,r^3\,R^2+182\,l^2\,r^5\,R^2-138\,r^7\,R^2-137\,l^4\,r^2\,R^3+422\,l^2\,r^4\,R^3-497\,r^6\,R^3+504\,l^2\,r^3\,R^4-936\,r^5\,R^4-784\,r^4\,R^5\right)\right)\Big/\left(l^4-4\,l^2\,r^2+3\,r^4-9\,l^2\,r\,R+19\,r^3\,R+28\,r^2\,R^2\right)^2\right)\}$$

$$\{X3,\ \text{CIRCUMCENTER},\ X83,\ \text{CEVAPOINT OF CENTROID AND SYMMEDIAN POINT},\ -\frac{1}{\left(5\,l^4-6\,l^2\,r^2+5\,r^4-40\,l^2\,r\,R+40\,r^3\,R+80\,r^2\,R^2\right)^2}\left(4\,l^{10}+12\,l^8\,r^2+8\,l^6\,r^4-8\,l^4\,r^6-12\,l^2\,r^8-4\,r^{10}-80\,l^8\,r\,R-64\,l^6\,r^3\,R+32\,l^4\,r^5\,R-64\,l^2\,r^7\,R-80\,r^9\,R-25\,l^8\,R^2+668\,l^6\,r^2\,R^2-534\,l^4\,r^4\,R^2+412\,l^2\,r^6\,R^2-665\,r^8\,R^2+400\,l^6\,r\,R^3-3184\,l^4\,r^3\,R^3+3696\,l^2\,r^5\,R^3-2960\,r^7\,R^3-2400\,l^4\,r^2\,R^4+8768\,l^2\,r^4\,R^4-7520\,r^6\,R^4+6400\,l^2\,r^3\,R^5-10\,496\,r^5\,R^5-6400\,r^4\,R^6\right)\}$$

$$\left\{X3,\ \text{CIRCUMCENTER},\ X84,\ \text{ISOGONAL CONJUGATE OF } X(40),\ \frac{R\left(2 l^2 r-4 l^2 R+r^2 R+8 r R^2+16 R^3\right)}{r^2}\right\}$$

$$\left\{X3,\ \text{CIRCUMCENTER},\ X85,\ \text{ISOTOMIC CONJUGATE OF } X(9),\ -\frac{R\left(3 l^2-r^2-8 r R-16 R^2\right)\left(8 l^2 r+5 l^2 R+r^2 R+8 r R^2+16 R^3\right)}{\left(l^2+r^2+8 r R+16 R^2\right)^2}\right\}$$

$$\left\{X3,\ \text{CIRCUMCENTER},\ X86,\ \text{CEVAPOINT OF INCENTER AND CENTROID},\ -\frac{4 l^6+8 l^4 r^2+4 l^2 r^4-25 l^4 R^2-26 l^2 r^2 R^2-r^4 R^2-40 l^2 r R^3-8 r^3 R^3-16 r^2 R^4}{\left(5 l^2+r^2+4 r R\right)^2}\right\}$$

$$\left\{X3,\ \text{CIRCUMCENTER},\ X87,\ X(2)\text{-CROSS CONJUGATE OF } X(1),\ \left(R\left(2 l^8 r+8 l^6 r^3+12 l^4 r^5+8 l^2 r^7+2 r^9+l^8 R-52 l^6 r^2 R-98 l^4 r^4 R-36 l^2 r^6 R+9 r^8 R-40 l^6 r R^2+360 l^4 r^3 R^2+328 l^2 r^5 R^2-72 r^7 R^2+464 l^4 r^2 R^3-992 l^2 r^4 R^3-432 r^6 R^3-1280 l^2 r^3 R^4-256 r^5 R^4+1024 r^4 R^5\right)\right)\Big/\left(l^4+2 l^2 r^2+r^4-20 l^2 r R+12 r^3 R+32 r^2 R^2\right)^2\right\}$$

$$\left\{X3,\ \text{CIRCUMCENTER},\ X88,\ \text{ISOGONAL CONJUGATE OF } X(44),\ \frac{R\left(l^4 r+6 l^2 r^3-27 r^5+l^4 R-24 l^2 r^2 R-45 r^4 R-30 l^2 r R^2+126 r^3 R^2+225 r^2 R^3\right)}{\left(l^2+3 r^2-15 r R\right)^2}\right\}$$

$$\left\{X3,\ \text{CIRCUMCENTER},\ X89,\ \text{ISOGONAL CONJUGATE OF } X(45),\ -\frac{R\left(2 l^4 r+24 l^2 r^3+54 r^5-4 l^4 R+66 l^2 r^2 R+234 r^4 R-12 l^2 r R^2+252 r^3 R^2-9 r^2 R^3\right)}{\left(2 l^2-6 r^2+3 r R\right)^2}\right\}$$

$$\left\{X3,\ \text{CIRCUMCENTER},\ X90,\ X(3)\text{-CROSS CONJUGATE OF } X(1),\ \frac{R\left(2 l^2 r^3-4 l^2 r^2 R+r^4 R+2 l^2 r R^2+6 r^3 R^2+6 r^2 R^3-10 r R^4+R^5\right)}{\left(r^2+2 r R-R^2\right)^2}\right\}$$

$$\left\{X3,\ \text{CIRCUMCENTER},\ X91,\ \text{ISOGONAL CONJUGATE OF } X(47),\ \left(R\left(l^6 r-9 l^4 r^3+19 l^2 r^5-3 r^7-13 l^4 r^2 R+70 l^2 r^4 R-29 r^6 R-8 l^4 r R^2+96 l^2 r^3 R^2-104 r^5 R^2+l^4 R^3+54 l^2 r^2 R^3-171 r^4 R^3+12 l^2 r R^4-132 r^3 R^4-4 l^2 R^5-40 r^2 R^5+4 R^7\right)\right)\Big/\left(l^2 r+r^3-l^2 R+3 r^2 R+2 r R^2+2 R^3\right)^2\right\}$$

$$\left\{X3,\ \text{CIRCUMCENTER},\ X92,\ \text{CEVAPOINT OF INCENTER AND CLAWSON POINT},\ -\frac{1}{\left(l^2+r^2-4 R^2\right)^2} R\left(12 l^4 r-16 l^2 r^3+4 r^5-l^4 R-74 l^2 r^2 R+39 r^4 R-80 l^2 r R^2+144 r^3 R^2+8 l^2 R^3+232 r^2 R^3+128 r R^4-16 R^5\right)\right\}$$

$$\left\{X3,\ \text{CIRCUMCENTER},\ X93,\ \text{ISOGONAL CONJUGATE OF } X(49),\ \left(R^2\left(5 l^8-60 l^6 r^2+126 l^4 r^4-60 l^2 r^6+5 r^8-80 l^6 r R+560 l^4 r^3 R-560 l^2 r^5 R+80 r^7 R-54 l^6 R^2+938 l^4 r^2 R^2-2058 l^2 r^4 R^2+534 r^6 R^2+648 l^4 r R^3-3760 l^2 r^3 R^3+1928 r^5 R^3+210 l^4 R^4-3580 l^2 r^2 R^4+4082 r^4 R^4-1680 l^2 r R^5+5136 r^3 R^5-350 l^2 R^6+3710 r^2 R^6+1400 r R^7+225 R^8\right)\right)\Big/\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-8 l^2 R^2+24 r^2 R^2+32 r R^3+13 R^4\right)^2\right\}$$

$$\left\{X3,\ \text{CIRCUMCENTER},\ X94,\ \text{ISOGONAL CONJUGATE OF } X(50),\ \left(R^2\left(7 l^8-52 l^6 r^2+138 l^4 r^4-52 l^2 r^6+7 r^8-112 l^6 r R+528 l^4 r^3 R-528 l^2 r^5 R+112 r^7 R-78 l^6 R^2+978 l^4 r^2 R^2-2034 l^2 r^4 R^2+750 r^6 R^2+936 l^4 r R^3-3952 l^2 r^3 R^3+2728 r^5 R^3+360 l^4 R^4-4464 l^2 r^2 R^4+5896 r^4 R^4-2880 l^2 r R^5+7872 r^3 R^5-810 l^2 R^6+6570 r^2 R^6+3240 r R^7+729 R^8\right)\right)\Big/\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-12 l^2 R^2+28 r^2 R^2+48 r R^3+27 R^4\right)^2\right\}$$

$$\{X3,\ \text{CIRCUMCENTER},\ X95,\ \text{CEVAPOINT OF CENTROID AND CIRCUMCENTER},\ \left(R^2\left(l^8-60\,l^6\,r^2+134\,l^4\,r^4-60\,l^2\,r^6+r^8-16\,l^6\,r\,R+496\,l^4\,r^3\,R-496\,l^2\,r^5\,R+16\,r^7\,R-8\,l^6\,R^2+536\,l^4\,r^2\,R^2-1528\,l^2\,r^4\,R^2+104\,r^6\,R^2+96\,l^4\,r\,R^3-2112\,l^2\,r^3\,R^3+352\,r^5\,R^3+16\,l^4\,R^4-1184\,l^2\,r^2\,R^4+656\,r^4\,R^4-128\,l^2\,r\,R^5+640\,r^3\,R^5+256\,r^2\,R^6\right)\right)\Big/\left(l^4+18\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-4\,l^2\,R^2+20\,r^2\,R^2+16\,r\,R^3\right)^2\}$$

$$\{X3,\ \text{CIRCUMCENTER},\ X96,\ \text{ISOGONAL CONJUGATE OF } X(52),\ \frac{1}{\left(l^4-14\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R+16\,r^2\,R^2-4\,R^4\right)^2}R^2\left(5\,l^8-44\,l^6\,r^2+158\,l^4\,r^4-44\,l^2\,r^6+5\,r^8-80\,l^6\,r\,R+432\,l^4\,r^3\,R-432\,l^2\,r^5\,R+80\,r^7\,R-40\,l^6\,R^2+632\,l^4\,r^2\,R^2-1496\,l^2\,r^4\,R^2+520\,r^6\,R^2+480\,l^4\,r\,R^3-2368\,l^2\,r^3\,R^3+1760\,r^5\,R^3+136\,l^4\,R^4-2160\,l^2\,r^2\,R^4+3336\,r^4\,R^4-1088\,l^2\,r\,R^5+3648\,r^3\,R^5-224\,l^2\,R^6+2400\,r^2\,R^6+896\,r\,R^7+144\,R^8\right)\}$$

$$\{X3,\ \text{CIRCUMCENTER},\ X97,\ \text{ISOGONAL CONJUGATE OF } X(53),\ \frac{(l-r-2\,R)^2\,R^2\,(l+r+2\,R)^2\left(2\,l^4-12\,l^2\,r^2+2\,r^4-16\,l^2\,r\,R+16\,r^3\,R-8\,l^2\,R^2+40\,r^2\,R^2+32\,r\,R^3+9\,R^4\right)}{\left(l^4-6\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-7\,l^2\,R^2+23\,r^2\,R^2+28\,r\,R^3+12\,R^4\right)^2}\}$$

$$\{X3,\ \text{CIRCUMCENTER},\ X98,\ \text{TarryPoint},\ R^2\}$$

$$\{X3,\ \text{CIRCUMCENTER},\ X99,\ \text{STEINER POINT},\ R^2\}$$

$$\{X3,\ \text{CIRCUMCENTER},\ X100,\ \text{ANTICOMPLEMENT OF FEUERBACH POINT},\ R^2\}$$

$$\{X4,\ \text{ORTHOCENTER},\ X5,\ \text{NINE-POINT CENTER},\ \frac{1}{4}\left(-2\,l^2+2\,r^2+8\,r\,R+9\,R^2\right)\}$$

$$\{X4,\ \text{ORTHOCENTER},\ X6,\ \text{SYMMEDIAN POINT},\ -\frac{1}{\left(l^2-r^2-4\,r\,R\right)^2}\left(l^6-7\,l^4\,r^2+7\,l^2\,r^4-r^6-12\,l^4\,r\,R+40\,l^2\,r^3\,R-12\,r^5\,R-4\,l^4\,R^2+68\,l^2\,r^2\,R^2-52\,r^4\,R^2+32\,l^2\,r\,R^3-96\,r^3\,R^3-64\,r^2\,R^4\right)\}$$

$$\{X4,\ \text{ORTHOCENTER},\ X7,\ \text{GERGONNE POINT},\ \frac{4\,R\left(2\,l^2\,r-4\,l^2\,R+r^2\,R+8\,r\,R^2+16\,R^3\right)}{(r+4\,R)^2}\}$$

$$\{X4,\ \text{ORTHOCENTER},\ X8,\ \text{NAGEL POINT},\ -4\,(2\,r-R)\,R\}$$

$$\{X4,\ \text{ORTHOCENTER},\ X9,\ \text{MITTENPUNKT},\ \frac{(r+2\,R)^2\left(-3\,l^2+r^2+8\,r\,R+16\,R^2\right)}{(r+4\,R)^2}\}$$

$$\{X4,\ \text{ORTHOCENTER},\ X10,\ \text{SPIEKER CENTER},\ \frac{1}{4}\left(-3\,l^2+r^2+8\,r\,R+16\,R^2\right)\}$$

$$\{X4,\ \text{ORTHOCENTER},\ X11,\ \text{FEUERBACH POINT},\ \frac{-l^2\,r+r^3+l^2\,R+2\,r^2\,R-4\,R^3}{2\,r-R}\}$$

$$\{X4,\ \text{ORTHOCENTER},\ X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ \frac{-2\,l^2\,r^2+2\,r^4-3\,l^2\,r\,R+13\,r^3\,R-l^2\,R^2+26\,r^2\,R^2+16\,r\,R^3+4\,R^4}{(2\,r+R)^2}\}$$

$$\{X4,\ \text{ORTHOCENTER},\ X13,\ \text{FERMAT POINT},\ -\frac{3\,l^4-10\,l^2\,r^2+3\,r^4-24\,l^2\,r\,R+24\,r^3\,R-12\,l^2\,R^2+60\,r^2\,R^2+48\,r\,R^3}{3\left(l^2+2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)}\}$$

$$\{X4,\ \text{ORTHOCENTER},\ X14,\ \text{2nd ISOGONIC CENTER},\ -\frac{3\,l^4-10\,l^2\,r^2+3\,r^4-24\,l^2\,r\,R+24\,r^3\,R-12\,l^2\,R^2+60\,r^2\,R^2+48\,r\,R^3}{3\left(l^2-2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)}\}$$

$$\left\{\text{X4, ORTHOCENTER, X15, 1st ISODYNAMIC POINT, } -\frac{1}{l^2+2\sqrt{3}\,l\,r-r^2-4\,r\,R}\left(l^4+4\sqrt{3}\,l^3\,r-6\,l^2\,r^2-4\sqrt{3}\,l\,r^3+r^4-8\,l^2\,r\,R-16\sqrt{3}\,l\,r^2\,R+8\,r^3\,R-4\,l^2\,R^2-16\sqrt{3}\,l\,r\,R^2+20\,r^2\,R^2+16\,r\,R^3\right)\right\}$$

$$\left\{\text{X4, ORTHOCENTER, X16, 2nd ISODYNAMIC POINT, } -\frac{1}{l^2-2\sqrt{3}\,l\,r-r^2-4\,r\,R}\left(l^4-4\sqrt{3}\,l^3\,r-6\,l^2\,r^2+4\sqrt{3}\,l\,r^3+r^4-8\,l^2\,r\,R+16\sqrt{3}\,l\,r^2\,R+8\,r^3\,R-4\,l^2\,R^2+16\sqrt{3}\,l\,r\,R^2+20\,r^2\,R^2+16\,r\,R^3\right)\right\}$$

$$\left\{\text{X4, ORTHOCENTER, X17, 1st NAPOLEON POINT, } -\left(\left(9\left(l^2+2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)\left(l^4+4\sqrt{3}\,l^3\,r-6\,l^2\,r^2-4\sqrt{3}\,l\,r^3+r^4-8\,l^2\,r\,R-16\sqrt{3}\,l\,r^2\,R+8\,r^3\,R-4\,l^2\,R^2-16\sqrt{3}\,l\,r\,R^2+20\,r^2\,R^2+16\,r\,R^3\right)\right)\Big/\left(3\,l^2+10\sqrt{3}\,l\,r-3\,r^2-12\,r\,R\right)^2\right)\right\}$$

$$\left\{\text{X4, ORTHOCENTER, X18, 2nd NAPOLEON POINT, } -\left(\left(9\left(l^2-2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)\left(l^4-4\sqrt{3}\,l^3\,r-6\,l^2\,r^2+4\sqrt{3}\,l\,r^3+r^4-8\,l^2\,r\,R+16\sqrt{3}\,l\,r^2\,R+8\,r^3\,R-4\,l^2\,R^2+16\sqrt{3}\,l\,r\,R^2+20\,r^2\,R^2+16\,r\,R^3\right)\right)\Big/\left(3\,l^2-10\sqrt{3}\,l\,r-3\,r^2-12\,r\,R\right)^2\right)\right\}$$

$$\left\{\text{X4, ORTHOCENTER, X19, CLAWSON POINT, } -\frac{(l-r-2\,R)^2\,(l+r+2\,R)^2\left(3\,l^2-r^2-8\,r\,R-16\,R^2\right)}{\left(l^2-r^2-6\,r\,R-8\,R^2\right)^2}\right\}$$

$$\left\{\text{X4, ORTHOCENTER, X20, DE LONGCHAMPS POINT, } -4\left(2\,l^2-2\,r^2-8\,r\,R-9\,R^2\right)\right\}$$

$$\left\{\text{X4, ORTHOCENTER, X21, SCHIFFLER POINT, } \frac{4\,(r+R)^2\left(-2\,l^2+2\,r^2+8\,r\,R+9\,R^2\right)}{(2\,r+3\,R)^2}\right\}$$

$$\left\{\text{X4, ORTHOCENTER, X22, ExeterPoint, } -\frac{\left(2\,l^2-2\,r^2-8\,r\,R-9\,R^2\right)\left(l^2-r^2-4\,r\,R-2\,R^2\right)^2}{\left(l^2-r^2-4\,r\,R-3\,R^2\right)^2}\right\}$$

$$\left\{\text{X4, ORTHOCENTER, X23, FarOutPoint, } -\frac{4\left(l^2-r^2-4\,r\,R-3\,R^2\right)^2}{2\,l^2-2\,r^2-8\,r\,R-9\,R^2}\right\}$$

$$\left\{\text{X4, ORTHOCENTER, X24, PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE, } -\frac{(l-r-2\,R)^2\,(l+r+2\,R)^2\left(2\,l^2-2\,r^2-8\,r\,R-9\,R^2\right)}{\left(l^2-r^2-4\,r\,R-5\,R^2\right)^2}\right\}$$

$$\left\{\text{X4, ORTHOCENTER, X25, HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES, } -\frac{(l-r-2\,R)^2\,(l+r+2\,R)^2\left(2\,l^2-2\,r^2-8\,r\,R-9\,R^2\right)}{\left(l^2-r^2-4\,r\,R-6\,R^2\right)^2}\right\}$$

$$\left\{\text{X4, ORTHOCENTER, X26, CIRCUMCENTER OF THE TANGENTIAL TRIANGLE, } -\frac{\left(2\,l^2-2\,r^2-8\,r\,R-9\,R^2\right)\left(l^2-r^2-4\,r\,R-3\,R^2\right)^2}{(l-r-2\,R)^2\,(l+r+2\,R)^2}\right\}$$

$$\left\{\text{X4, ORTHOCENTER, X27, CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER, } -\frac{4\,(l-r-2\,R)^2\,(l+r+2\,R)^2\left(2\,l^2-2\,r^2-8\,r\,R-9\,R^2\right)}{\left(l^2-3\,r^2-12\,r\,R-12\,R^2\right)^2}\right\}$$

$$\left\{\text{X4, ORTHOCENTER, X28, CEVAPOINT OF X(19) AND X(25), } -\frac{(l-r-2\,R)^2\,(l+r+2\,R)^2\left(2\,l^2-2\,r^2-8\,r\,R-9\,R^2\right)}{\left(l^2-r^2-5\,r\,R-6\,R^2\right)^2}\right\}$$

$$\left\{X4,\ \text{ORTHOCENTER},\ X29,\ \text{CEVAPOINT OF INCENTER AND ORTHOCENTER},\ -\frac{4\,(l-r-2R)^2\,(l+r+2R)^2\,\left(2l^2-2r^2-8rR-9R^2\right)}{\left(3l^2-r^2-8rR-12R^2\right)^2}\right\}$$

$$\left\{X4,\ \text{ORTHOCENTER},\ X30,\ \text{EulerInfinityPoint},\ \infty\right\}$$

$$\left\{X4,\ \text{ORTHOCENTER},\ X31,\ \text{SecondPowerPoint},\ -\frac{1}{\left(l^2-3r^2-6rR\right)^2}\left(l^6-13l^4r^2+35l^2r^4-15r^6-16l^4rR+120l^2r^3R-120r^5R-4l^4R^2+128l^2r^2R^2-332r^4R^2+48l^2rR^3-368r^3R^3-144r^2R^4\right)\right\}$$

$$\left\{X4,\ \text{ORTHOCENTER},\ X32,\ \text{ThirdPowerPoint},\ -\left(\left(\left(l^4-14l^2r^2+r^4-8l^2rR+8r^3R+16r^2R^2\right)\left(l^6-7l^4r^2+7l^2r^4-r^6-12l^4rR+40l^2r^3R-12r^5R-4l^4R^2+68l^2r^2R^2-52r^4R^2+32l^2rR^3-96r^3R^3-64r^2R^4\right)\right)\Big/\left(\left(l^2-2lr-r^2-4rR\right)^2\left(l^2+2lr-r^2-4rR\right)^2\right)\right)\right\}$$

$$\left\{X4,\ \text{ORTHOCENTER},\ X33,\ \text{PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES},\ -\frac{(l-r-2R)^2\,(l+r+2R)^2\,\left(l^2-3r^2-4rR-4R^2\right)}{\left(l^2-r^2-2rR-4R^2\right)^2}\right\}$$

$$\left\{X4,\ \text{ORTHOCENTER},\ X34,\ X(4)\text{-BETH CONJUGATE OF } X(4),\ -\frac{(l-r-2R)^2\,(l+r+2R)^2\,\left(l^2-3r^2-4rR-4R^2\right)}{\left(l^2-r^2-6rR-4R^2\right)^2}\right\}$$

$$\left\{X4,\ \text{ORTHOCENTER},\ X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),\ \frac{-8l^2r^2+8r^4-6l^2rR+42r^3R-l^2R^2+67r^2R^2+28rR^3+4R^4}{(2r+R)^2}\right\}$$

$$\left\{X4,\ \text{ORTHOCENTER},\ X36,\ \text{INVERSE-IN-CIRCUMCIRCLE OF INCENTER},\ \frac{-4l^2r+4r^3+l^2R+13r^2R+12rR^2-4R^3}{2r-R}\right\}$$

$$\left\{X4,\ \text{ORTHOCENTER},\ X37,\ \text{CrosspointOfIncenterAndCentroid},\ -\frac{1}{\left(l^2+r^2+4rR\right)^2}\left(l^6+l^4r^2-l^2r^4-r^6+4l^4rR-16l^2r^3R-12r^5R-4l^4R^2-44l^2r^2R^2-52r^4R^2-32l^2rR^3-96r^3R^3-64r^2R^4\right)\right\}$$

$$\left\{X4,\ \text{ORTHOCENTER},\ X38,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(75),\ -\frac{1}{\left(l^2+r^2-2rR\right)^2}\left(l^6+3l^4r^2+3l^2r^4+r^6-8l^4rR-24l^2r^3R+16r^5R-4l^4R^2-16l^2r^2R^2+68r^4R^2+16l^2rR^3+112r^3R^3-16r^2R^4\right)\right\}$$

$$\left\{X4,\ \text{ORTHOCENTER},\ X39,\ \text{BrocardMidpoint},\ -\frac{1}{\left(l^4+2l^2r^2+r^4-8l^2rR+8r^3R+16r^2R^2\right)^2}\left(l^{10}+3l^8r^2+2l^6r^4-2l^4r^6-3l^2r^8-r^{10}-20l^8rR-16l^6r^3R+8l^4r^5R-16l^2r^7R-20r^9R-4l^8R^2+140l^6r^2R^2-192l^4r^4R^2+76l^2r^6R^2-164r^8R^2+64l^6rR^3-544l^4r^3R^3+672l^2r^5R^3-704r^7R^3-384l^4r^2R^4+1472l^2r^4R^4-1664r^6R^4+1024l^2r^3R^5-2048r^5R^5-1024r^4R^6\right)\right\}$$

$$\left\{X4,\ \text{ORTHOCENTER},\ X40,\ \text{BEVAN POINT},\ -3l^2+r^2+8rR+16R^2\right\}$$

$$\left\{X4,\ \text{ORTHOCENTER},\ X41,\ X(6)\text{-CEVA CONJUGATE OF } X(31),\ -\left(\left(15l^6r^2-35l^4r^4+13l^2r^6-r^8+16l^6rR-188l^4r^3R+160l^2r^5R-20r^7R+4l^6R^2-308l^4r^2R^2+724l^2r^4R^2-164r^6R^2-144l^4rR^3+1456l^2r^3R^3-704r^5R^3-16l^4R^4+1216l^2r^2R^4-1664r^4R^4+256l^2rR^5-2048r^3R^5-1024r^2R^6\right)\Big/\left(3l^2r-r^3+2l^2R-8r^2R-16rR^2\right)^2\right)\right\}$$

$$\left\{X4,\ \text{ORTHOCENTER},\ X42,\ \text{CROSSPOINT OF INCENTER AND SYMMEDIAN POINT},\ -\frac{1}{\left(l^2+r^2-2\,r\,R\right)^2}\left(l^6-l^4\,r^2-5\,l^2\,r^4-3\,r^6-8\,l^4\,r\,R-16\,l^2\,r^3\,R-8\,r^5\,R-4\,l^4\,R^2+16\,l^2\,r^2\,R^2+20\,r^4\,R^2+16\,l^2\,r\,R^3+48\,r^3\,R^3-16\,r^2\,R^4\right)\right\}$$

$$\left\{X4,\ \text{ORTHOCENTER},\ X43,\ X(6)\text{-CEVA CONJUGATE OF }X(1),\ -\frac{1}{\left(l^2+r^2-8\,r\,R\right)^2}\left(l^6-l^4\,r^2-5\,l^2\,r^4-3\,r^6-20\,l^4\,r\,R-8\,l^2\,r^3\,R+12\,r^5\,R-4\,l^4\,R^2+120\,l^2\,r^2\,R^2+60\,r^4\,R^2+64\,l^2\,r\,R^3-64\,r^3\,R^3-256\,r^2\,R^4\right)\right\}$$

$$\left\{X4,\ \text{ORTHOCENTER},\ X44,\ X(6)\text{-LINE CONJUGATE OF }X(1),\ -\frac{1}{\left(l^2-3\,r^2-12\,r\,R\right)^2}\left(l^6-15\,l^4\,r^2+39\,l^2\,r^4-9\,r^6-28\,l^4\,r\,R+192\,l^2\,r^3\,R-108\,r^5\,R-4\,l^4\,R^2+276\,l^2\,r^2\,R^2-468\,r^4\,R^2+96\,l^2\,r\,R^3-864\,r^3\,R^3-576\,r^2\,R^4\right)\right\}$$

$$\left\{X4,\ \text{ORTHOCENTER},\ X45,\ X(9)\text{-BETH CONJUGATE OF }X(1),\ -\frac{1}{\left(l^2+3\,r^2+12\,r\,R\right)^2}\left(l^6+9\,l^4\,r^2+15\,l^2\,r^4-9\,r^6+20\,l^4\,r\,R+24\,l^2\,r^3\,R-108\,r^5\,R-4\,l^4\,R^2-60\,l^2\,r^2\,R^2-468\,r^4\,R^2-96\,l^2\,r\,R^3-864\,r^3\,R^3-576\,r^2\,R^4\right)\right\}$$

$$\left\{X4,\ \text{ORTHOCENTER},\ X46,\ X(4)\text{-CEVA CONJUGATE OF }X(1),\ \frac{-3\,l^2\,r^2+r^4+4\,l^2\,r\,R+4\,r^3\,R-l^2\,R^2-r^2\,R^2-12\,r\,R^3+4\,R^4}{(r-R)^2}\right\}$$

$$\left\{X4,\ \text{ORTHOCENTER},\ X47,\ X(110)\text{-BETH CONJUGATE OF }X(34),\ -\frac{1}{\left(l^2-3\,r^2-6\,r\,R-2\,R^2\right)^2}\left(l^6-13\,l^4\,r^2+35\,l^2\,r^4-15\,r^6-16\,l^4\,r\,R+120\,l^2\,r^3\,R-120\,r^5\,R-8\,l^4\,R^2+160\,l^2\,r^2\,R^2-360\,r^4\,R^2+88\,l^2\,r\,R^3-504\,r^3\,R^3+20\,l^2\,R^4-348\,r^2\,R^4-112\,r\,R^5-16\,R^6\right)\right\}$$

$$\left\{X4,\ \text{ORTHOCENTER},\ X48,\ \text{CROSSPOINT OF }X(1)\text{ AND }X(63),\ -\frac{1}{\left(3\,l^2-r^2-6\,r\,R-8\,R^2\right)^2}\left(15\,l^6-35\,l^4\,r^2+13\,l^2\,r^4-r^6-120\,l^4\,r\,R+120\,l^2\,r^3\,R-16\,r^5\,R-120\,l^4\,R^2+400\,l^2\,r^2\,R^2-104\,r^4\,R^2+576\,l^2\,r\,R^3-352\,r^3\,R^3+304\,l^2\,R^4-656\,r^2\,R^4-640\,r\,R^5-256\,R^6\right)\right\}$$

$$\left\{X4,\ \text{ORTHOCENTER},\ X49,\ \text{CENTER OF SINE-TRIPLE-ANGLE CIRCLE},\ -\frac{1}{\left(2\,l^2-2\,r^2-8\,r\,R-7\,R^2\right)^2}\left(6\,l^6-26\,l^4\,r^2+26\,l^2\,r^4-6\,r^6-72\,l^4\,r\,R+176\,l^2\,r^3\,R-72\,r^5\,R-60\,l^4\,R^2+440\,l^2\,r^2\,R^2-348\,r^4\,R^2+480\,l^2\,r\,R^3-864\,r^3\,R^3+200\,l^2\,R^4-1160\,r^2\,R^4-800\,r\,R^5-225\,R^6\right)\right\}$$

$$\left\{X4,\ \text{ORTHOCENTER},\ X50,\ X(74)\text{-CEVA CONJUGATE OF }X(184),\ -\frac{1}{\left(l^4-6\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-3\,l^2\,R^2+19\,r^2\,R^2+12\,r\,R^3\right)^2}\left(l^{10}-21\,l^8\,r^2+106\,l^6\,r^4-106\,l^4\,r^6+21\,l^2\,r^8-r^{10}-20\,l^8\,r\,R+272\,l^6\,r^3\,R-696\,l^4\,r^5\,R+272\,l^2\,r^7\,R-20\,r^9\,R-10\,l^8\,R^2+320\,l^6\,r^2\,R^2-1740\,l^4\,r^4\,R^2+1408\,l^2\,r^6\,R^2-170\,r^8\,R^2+160\,l^6\,r\,R^3-2080\,l^4\,r^3\,R^3+3744\,l^2\,r^5\,R^3-800\,r^7\,R^3+33\,l^6\,R^4-1311\,l^4\,r^2\,R^4+5471\,l^2\,r^4\,R^4-2273\,r^6\,R^4-396\,l^4\,r\,R^5+4360\,l^2\,r^3\,R^5-3980\,r^5\,R^5-36\,l^4\,R^6+1764\,l^2\,r^2\,R^6-4180\,r^4\,R^6+288\,l^2\,r\,R^7-2400\,r^3\,R^7-576\,r^2\,R^8\right)\right\}$$

$$\left\{X4,\ \text{ORTHOCENTER},\ X51,\ \text{CENTROID OF ORTHIC TRIANGLE},\ \frac{5\,l^4-6\,l^2\,r^2+5\,r^4-40\,l^2\,r\,R+40\,r^3\,R-56\,l^2\,R^2+136\,r^2\,R^2+224\,r\,R^3+144\,R^4}{36\,R^2}\right\}$$

$$\left\{X4,\ \text{ORTHOCENTER},\ X52,\ \text{ORTHOCENTER OF ORTHIC TRIANGLE},\ \frac{3\,l^4-10\,l^2\,r^2+3\,r^4-24\,l^2\,r\,R+24\,r^3\,R-20\,l^2\,R^2+68\,r^2\,R^2+80\,r\,R^3+36\,R^4}{4\,R^2}\right\}$$

$$\left\{X4,\ \text{ORTHOCENTER},\ X53,\ \text{SYMMEDIAN POINT OF ORTHIC TRIANGLE},\ -\left(\left((l-r-2\,R)^2\,(l+r+2\,R)^2\,\left(l^6-7\,l^4\,r^2+7\,l^2\,r^4-r^6-12\,l^4\,r\,R+40\,l^2\,r^3\,R-12\,r^5\,R-4\,l^4\,R^2+68\,l^2\,r^2\,R^2-52\,r^4\,R^2+32\,l^2\,r\,R^3-96\,r^3\,R^3-64\,r^2\,R^4\right)\right)\Big/\left(l^4-6\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-4\,l^2\,R^2+20\,r^2\,R^2+16\,r\,R^3\right)^2\right)\right\}$$

$$\left\{X4,\ \text{ORTHOCENTER},\ X54,\ \text{KosnitaPoint},\ -\frac{1}{\left(2\,l^2-2\,r^2-8\,r\,R-5\,R^2\right)^2}\left(6\,l^6-26\,l^4\,r^2+26\,l^2\,r^4-6\,r^6-72\,l^4\,r\,R+176\,l^2\,r^3\,R-72\,r^5\,R-53\,l^4\,R^2+422\,l^2\,r^2\,R^2-341\,r^4\,R^2+424\,l^2\,r\,R^3-808\,r^3\,R^3+152\,l^2\,R^4-1000\,r^2\,R^4-608\,r\,R^5-144\,R^6\right)\right\}$$

$$\left\{X4,\ \text{ORTHOCENTER},\ X55,\ \text{INSIMILICENTER(CIRCUMCIRCLE, INCIRCLE)},\ \frac{-2\,l^2\,r^2+2\,r^4-3\,l^2\,r\,R+13\,r^3\,R-l^2\,R^2+26\,r^2\,R^2+16\,r\,R^3+4\,R^4}{(r+R)^2}\right\}$$

$$\left\{X4,\ \text{ORTHOCENTER},\ X56,\ \text{EXSIMILICENTER(CIRCUMCIRCLE, INCIRCLE)},\ \frac{(2\,r-R)\,\left(-l^2\,r+r^3+l^2\,R+2\,r^2\,R-4\,R^3\right)}{(r-R)^2}\right\}$$

$$\left\{X4,\ \text{ORTHOCENTER},\ X57,\ \text{ISOGONAL CONJUGATE OF X(9)},\ \frac{-3\,l^2\,r^2+r^4+8\,l^2\,r\,R-4\,l^2\,R^2-12\,r^2\,R^2-16\,r\,R^3+16\,R^4}{(r-2\,R)^2}\right\}$$

$$\left\{X4,\ \text{ORTHOCENTER},\ X58,\ \text{ISOGONAL CONJUGATE OF X(10)},\ -\frac{1}{\left(l^2-3\,r^2-4\,r\,R\right)^2}\left(l^6-13\,l^4\,r^2+35\,l^2\,r^4-15\,r^6-12\,l^4\,r\,R+88\,l^2\,r^3\,R-92\,r^5\,R-4\,l^4\,R^2+92\,l^2\,r^2\,R^2-208\,r^4\,R^2+32\,l^2\,r\,R^3-192\,r^3\,R^3-64\,r^2\,R^4\right)\right\}$$

$$\left\{X4,\ \text{ORTHOCENTER},\ X59,\ \text{ISOGONAL CONJUGATE OF X(11)},\ \left(-3\,l^6\,r+13\,l^4\,r^3-13\,l^2\,r^5+3\,r^7+l^6\,R+36\,l^4\,r^2\,R-99\,l^2\,r^4\,R+42\,r^6\,R+22\,l^4\,r\,R^2-248\,l^2\,r^3\,R^2+226\,r^5\,R^2-12\,l^4\,R^3-224\,l^2\,r^2\,R^3+580\,r^4\,R^3-32\,l^2\,r\,R^4+704\,r^3\,R^4+48\,l^2\,R^5+316\,r^2\,R^5-32\,r\,R^6-64\,R^7\right)\Big/\left((2\,r-R)\,\left(-l^2+r^2+5\,r\,R+4\,R^2\right)^2\right)\right\}$$

$$\left\{X4,\ \text{ORTHOCENTER},\ X60,\ \text{ISOGONAL CONJUGATE OF X(12)},\ -\left(\left(6\,l^6\,r^2-26\,l^4\,r^4+26\,l^2\,r^6-6\,r^8+5\,l^6\,r\,R-85\,l^4\,r^3\,R+167\,l^2\,r^5\,R-63\,r^7\,R+l^6\,R^2-100\,l^4\,r^2\,R^2+437\,l^2\,r^4\,R^2-278\,r^6\,R^2-38\,l^4\,r\,R^3+552\,l^2\,r^3\,R^3-658\,r^5\,R^3-4\,l^4\,R^4+320\,l^2\,r^2\,R^4-884\,r^4\,R^4+56\,l^2\,r\,R^5-640\,r^3\,R^5-196\,r^2\,R^6\right)\Big/\left(2\,l^2\,r-2\,r^3+l^2\,R-7\,r^2\,R-7\,r\,R^2\right)^2\right)\right\}$$

$$\left\{X4,\ \text{ORTHOCENTER},\ X61,\ \text{ISOGONAL CONJUGATE OF X(17)},\ -\frac{3\,\left(l^2+2\,\sqrt{3}\,l\,r-r^2-4\,r\,R\right)\,\left(3\,l^4-10\,l^2\,r^2+3\,r^4-24\,l^2\,r\,R+24\,r^3\,R-12\,l^2\,R^2+60\,r^2\,R^2+48\,r\,R^3\right)}{\left(3\,l^2+2\,\sqrt{3}\,l\,r-3\,r^2-12\,r\,R\right)^2}\right\}$$

$$\left\{X4,\ \text{ORTHOCENTER},\ X62,\ \text{ISOGONAL CONJUGATE OF X(18)},\ -\frac{3\,\left(l^2-2\,\sqrt{3}\,l\,r-r^2-4\,r\,R\right)\,\left(3\,l^4-10\,l^2\,r^2+3\,r^4-24\,l^2\,r\,R+24\,r^3\,R-12\,l^2\,R^2+60\,r^2\,R^2+48\,r\,R^3\right)}{\left(3\,l^2-2\,\sqrt{3}\,l\,r-3\,r^2-12\,r\,R\right)^2}\right\}$$

$$\left\{X4,\ \text{ORTHOCENTER},\ X63,\ \text{ISOGONAL CONJUGATE OF X(19)},\ \frac{-3\,l^2\,r^2+r^4-2\,l^2\,r\,R+6\,r^3\,R+12\,r^2\,R^2+8\,r\,R^3+4\,R^4}{(r+R)^2}\right\}$$

$$\{X4, \text{ORTHOCENTER}, X64, \text{ISOGONAL CONJUGATE OF } X(20), -\left(\left(3 l^6 - 5 l^4 r^2 + 5 l^2 r^4 - 3 r^6 - 36 l^4 r R + 56 l^2 r^3 R - 36 r^5 R - 56 l^4 R^2 + 236 l^2 r^2 R^2 - 200 r^4 R^2 + 448 l^2 r R^3 - 640 r^3 R^3 + 320 l^2 R^4 - 1216 r^2 R^4 - 1280 r R^5 - 576 R^6\right) / \left((l - r - 2 R)^2 (l + r + 2 R)^2\right)\right)\}$$

$$\left\{X4, \text{ORTHOCENTER}, X65, \text{ORTHOCENTER OF THE INTOUCH TRIANGLE}, \frac{l^2 r - r^3 - l^2 R - 2 r^2 R + 4 R^3}{R}\right\}$$

$$\{X4, \text{ORTHOCENTER}, X66, \text{ISOGONAL CONJUGATE OF } X(22), \left(R^2 \left(3 l^8 - 16 l^6 r^2 + 26 l^4 r^4 - 16 l^2 r^6 + 3 r^8 - 48 l^6 r R + 176 l^4 r^3 R - 176 l^2 r^5 R + 48 r^7 R - 28 l^6 R^2 + 404 l^4 r^2 R^2 - 756 l^2 r^4 R^2 + 316 r^6 R^2 + 336 l^4 r R^3 - 1568 l^2 r^3 R^3 + 1104 r^5 R^3 + 64 l^4 R^4 - 1520 l^2 r^2 R^4 + 2176 r^4 R^4 - 512 l^2 r R^5 + 2304 r^3 R^5 + 1024 r^2 R^6\right)\right) / \left((l - r - 2 R)^2 (l + r + 2 R)^2 \left(l^2 - r^2 - 4 r R\right)^2\right)\}$$

$$\{X4, \text{ORTHOCENTER}, X67, \text{ISOGONAL CONJUGATE OF } X(23), \left(9 R^2 \left(l^6 - 7 l^4 r^2 + 7 l^2 r^4 - r^6 - 12 l^4 r R + 40 l^2 r^3 R - 12 r^5 R - 4 l^4 R^2 + 68 l^2 r^2 R^2 - 52 r^4 R^2 + 32 l^2 r R^3 - 96 r^3 R^3 - 64 r^2 R^4\right)\right) / \left(\left(l^2 - r^2 - 4 r R\right)^2 \left(2 l^2 - 2 r^2 - 8 r R - 9 R^2\right)\right)\}$$

$$\left\{X4, \text{ORTHOCENTER}, X68, \text{PRASOLOV POINT}, \frac{R^2 \left(3 l^4 - 10 l^2 r^2 + 3 r^4 - 24 l^2 r R + 24 r^3 R - 20 l^2 R^2 + 68 r^2 R^2 + 80 r R^3 + 36 R^4\right)}{(l - r - 2 R)^2 (l + r + 2 R)^2}\right\}$$

$$\left\{X4, \text{ORTHOCENTER}, X69, \text{SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE}, \frac{4 R^2 \left(l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\right)}{\left(l^2 - r^2 - 4 r R\right)^2}\right\}$$

$$\{X4, \text{ORTHOCENTER}, X70, \text{ISOGONAL CONJUGATE OF } X(26), \left(R^2 \left(3 l^8 - 16 l^6 r^2 + 26 l^4 r^4 - 16 l^2 r^6 + 3 r^8 - 48 l^6 r R + 176 l^4 r^3 R - 176 l^2 r^5 R + 48 r^7 R - 36 l^6 R^2 + 428 l^4 r^2 R^2 - 780 l^2 r^4 R^2 + 324 r^6 R^2 + 432 l^4 r R^3 - 1760 l^2 r^3 R^3 + 1200 r^5 R^3 + 149 l^4 R^4 - 2086 l^2 r^2 R^4 + 2645 r^4 R^4 - 1192 l^2 r R^5 + 3496 r^3 R^5 - 248 l^2 R^6 + 2632 r^2 R^6 + 992 r R^7 + 144 R^8\right)\right) / \left(l^4 - 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 6 l^2 R^2 + 22 r^2 R^2 + 24 r R^3 + 7 R^4\right)^2\}$$

$$\left\{X4, \text{ORTHOCENTER}, X71, \text{ISOGONAL CONJUGATE OF } X(27), -\frac{\left(3 l^2 - r^2 - 8 r R - 16 R^2\right) \left(l^2 + r^2 + 4 r R + 4 R^2\right)^2}{\left(l^2 + r^2 + 6 r R + 8 R^2\right)^2}\right\}$$

$$\left\{X4, \text{ORTHOCENTER}, X72, \text{ISOGONAL CONJUGATE OF } X(28), \frac{(-2 r + R) (r + 2 R)^2}{R}\right\}$$

$$\left\{X4, \text{ORTHOCENTER}, X73, \text{CROSSPOINT OF INCENTER AND CIRCUMCENTER}, -\frac{\left(l^2 + r^2 - 4 R^2\right)^2 \left(l^2 - 3 r^2 - 4 r R - 4 R^2\right)}{\left(l^2 + r^2 - 2 r R - 4 R^2\right)^2}\right\}$$

$$\left\{X4, \text{ORTHOCENTER}, X74, \text{ISOGONAL CONJUGATE OF EULER INFINITY POINT}, -\frac{5 l^4 - 6 l^2 r^2 + 5 r^4 - 40 l^2 r R + 40 r^3 R - 56 l^2 R^2 + 136 r^2 R^2 + 224 r R^3 + 144 R^4}{2 l^2 - 2 r^2 - 8 r R - 9 R^2}\right\}$$

$$\left\{X4, \text{ORTHOCENTER}, X75, \text{ISOTOMIC CONJUGATE OF INCENTER}, -\frac{4 R \left(4 l^4 r - 4 l^2 r^3 - l^4 R - 6 l^2 r^2 R - r^4 R - 8 l^2 r R^2 - 8 r^3 R^2 - 16 r^2 R^3\right)}{\left(l^2 + r^2 + 4 r R\right)^2}\right\}$$

$$\left\{X4, \text{ORTHOCENTER}, X76, \text{3rd BROCARD POINT}, \frac{4 R^2 \left(l^2 - r^2 - 4 r R\right)^2 \left(l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\right)}{\left(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\right)^2}\right\}$$

$$\left\{X4,\ \text{ORTHOCENTER},\ X77,\ \text{ISOGONAL CONJUGATE OF } X(33),\ -\frac{l^6-3l^4r^2-2l^4rR+2l^2r^3R-12l^4R^2+12l^2r^2R^2+16l^2rR^3+48l^2R^4-4r^2R^4-32rR^5-64R^6}{\left(l^2-rR-4R^2\right)^2}\right\}$$

$$\left\{X4,\ \text{ORTHOCENTER},\ X78,\ \text{ISOGONAL CONJUGATE OF } X(34),\ \frac{-l^2r^2+3r^4+2l^2rR+6r^3R-8r^2R^2-16rR^3+4R^4}{(r-R)^2}\right\}$$

$$\left\{X4,\ \text{ORTHOCENTER},\ X79,\ \text{ISOGONAL CONJUGATE OF } X(35),\ -\frac{R\left(-6l^2r+2r^3+9l^2R+5r^2R-12rR^2-36R^3\right)}{(2r+3R)^2}\right\}$$

$$\left\{X4,\ \text{ORTHOCENTER},\ X80,\ \text{REFLECTION OF INCENTER IN FEUERBACH POINT},\ -\frac{R\left(-l^2+3r^2+4rR+4R^2\right)}{2r-R}\right\}$$

$$\left\{X4,\ \text{ORTHOCENTER},\ X81,\ \text{CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},\ -\frac{1}{\left(l^2-r^2-rR\right)^2}\left(l^6-7l^4r^2+7l^2r^4-r^6-6l^4rR+20l^2r^3R-6r^5R-4l^4R^2+28l^2r^2R^2-12r^4R^2+8l^2rR^3-8r^3R^3-4r^2R^4\right)\right\}$$

$$\left\{X4,\ \text{ORTHOCENTER},\ X82,\ \text{ISOGONAL CONJUGATE OF } X(38),\ -\frac{1}{\left(l^4-4l^2r^2+3r^4-9l^2rR+19r^3R+28r^2R^2\right)^2}\left(l^{10}-15l^8r^2+62l^6r^4-98l^4r^6+65l^2r^8-15r^{10}-22l^8rR+256l^6r^3R-756l^4r^5R+768l^2r^7R-246r^9R-4l^8R^2+260l^6r^2R^2-1900l^4r^4R^2+3388l^2r^6R^2-1616r^8R^2+72l^6rR^3-1720l^4r^3R^3+6792l^2r^5R^3-5400r^7R^3-548l^4r^2R^4+6024l^2r^4R^4-9604r^6R^4+2016l^2r^3R^5-8608r^5R^5-3136r^4R^6\right)\right\}$$

$$\left\{X4,\ \text{ORTHOCENTER},\ X83,\ \text{CEVAPOINT OF CENTROID AND SYMMEDIAN POINT},\ -\left(\left(4\left(l^2-r^2-4rR\right)^2\left(6l^6-26l^4r^2+26l^2r^4-6r^6-72l^4rR+176l^2r^3R-72r^5R-25l^4R^2+350l^2r^2R^2-313r^4R^2+200l^2rR^3-584r^3R^3-400r^2R^4\right)\right)\Big/\left(5l^4-6l^2r^2+5r^4-40l^2rR+40r^3R+80r^2R^2\right)^2\right)\right\}$$

$$\left\{X4,\ \text{ORTHOCENTER},\ X84,\ \text{ISOGONAL CONJUGATE OF } X(40),\ \frac{-3l^2r^2+r^4+8l^2rR-4l^2R^2-12r^2R^2-16rR^3+16R^4}{r^2}\right\}$$

$$\left\{X4,\ \text{ORTHOCENTER},\ X85,\ \text{ISOTOMIC CONJUGATE OF } X(9),\ -\frac{4R\left(4l^4r-4l^2r^3+7l^4R-30l^2r^2R-r^4R-48l^2rR^2-16r^3R^2+32l^2R^3-96r^2R^3-256rR^4-256R^5\right)}{\left(l^2+r^2+8rR+16R^2\right)^2}\right\}$$

$$\left\{X4,\ \text{ORTHOCENTER},\ X86,\ \text{CEVAPOINT OF INCENTER AND CENTROID},\ -\frac{1}{\left(5l^2+r^2+4rR\right)^2}4\left(6l^6-12l^4r^2-2l^2r^4-16l^4rR-16l^2r^3R-25l^4R^2-30l^2r^2R^2-r^4R^2-40l^2rR^3-8r^3R^3-16r^2R^4\right)\right\}$$

$$\left\{X4,\ \text{ORTHOCENTER},\ X87,\ X(2)\text{-CROSS CONJUGATE OF } X(1),\ -\frac{1}{\left(l^4+2l^2r^2+r^4-20l^2rR+12r^3R+32r^2R^2\right)^2}\left(l^{10}+l^8r^2-6l^6r^4-14l^4r^6-11l^2r^8-3r^{10}-44l^8rR+48l^6r^3R+152l^4r^5R-16l^2r^7R-76r^9R-4l^8R^2+608l^6r^2R^2-1544l^4r^4R^2+1216l^2r^6R^2-724r^8R^2+160l^6rR^3-3040l^4r^3R^3+5728l^2r^5R^3-3360r^7R^3-1856l^4r^2R^4+9600l^2r^4R^4-8000r^6R^4+5120l^2r^3R^5-9216r^5R^5-4096r^4R^6\right)\right\}$$

$$\left\{X4,\ \text{ORTHOCENTER},\ X88,\ \text{ISOGONAL CONJUGATE OF } X(44),\ -\frac{1}{\left(l^2+3r^2-15rR\right)^2}\left(l^6+9l^4r^2+15l^2r^4-9r^6-34l^4rR-156l^2r^3R+54r^5R-4l^4R^2+300l^2r^2R^2+180r^4R^2+120l^2rR^3-216r^3R^3-900r^2R^4\right)\right\}$$

$$\left\{X4,\ \text{ORTHOCENTER},\ X89,\ \text{ISOGONAL CONJUGATE OF } X(45),\ -\frac{1}{\left(2l^2-6r^2+3rR\right)^2}4\left(l^6-15l^4r^2+39l^2r^4-9r^6-l^4rR+12l^2r^3R-27r^5R-4l^4R^2+42l^2r^2R^2+18r^4R^2-12l^2rR^3+108r^3R^3-9r^2R^4\right)\right\}$$

$$\left\{X4,\ \text{ORTHOCENTER},\ X90,\ X(3)\text{-CROSS CONJUGATE OF } X(1),\ \frac{(r+R)^2\left(-3l^2r^2+r^4+4l^2rR+4r^3R-l^2R^2-r^2R^2-12rR^3+4R^4\right)}{\left(r^2+2rR-R^2\right)^2}\right\}$$

$$\left\{X4,\ \text{ORTHOCENTER},\ X91,\ \text{ISOGONAL CONJUGATE OF } X(47),\ \left(R\left(2l^6r-14l^4r^3+14l^2r^5-2r^7-l^6R-11l^4r^2R+53l^2r^4R-17r^6R-4l^4rR^2+72l^2r^3R^2-52r^5R^2+8l^4R^3+8l^2r^2R^3-64r^4R^3-24l^2rR^4-8r^3R^4-20l^2R^5+60r^2R^5+48rR^6+16R^7\right)\right)\Big/\left(l^2r+r^3-l^2R+3r^2R+2rR^2+2R^3\right)^2\right\}$$

$$\left\{X4,\ \text{ORTHOCENTER},\ X92,\ \text{CEVAPOINT OF INCENTER AND CLAWSON POINT},\ -\frac{4(l-r-2R)^2(2r-R)R(l+r+2R)^2}{\left(l^2+r^2-4R^2\right)^2}\right\}$$

$$\left\{X4,\ \text{ORTHOCENTER},\ X93,\ \text{ISOGONAL CONJUGATE OF } X(49),\ \frac{4(l-r-2R)^2R^2(l+r+2R)^2\left(2l^4-12l^2r^2+2r^4-16l^2rR+16r^3R-8l^2R^2+40r^2R^2+32rR^3+9R^4\right)}{\left(l^4+2l^2r^2+r^4-8l^2rR+8r^3R-8l^2R^2+24r^2R^2+32rR^3+13R^4\right)^2}\right\}$$

$$\left\{X4,\ \text{ORTHOCENTER},\ X94,\ \text{ISOGONAL CONJUGATE OF } X(50),\ \frac{4R^2\left(2l^2-2r^2-8rR-9R^2\right)^2\left(l^2-r^2-4rR-3R^2\right)^2}{\left(l^4+2l^2r^2+r^4-8l^2rR+8r^3R-12l^2R^2+28r^2R^2+48rR^3+27R^4\right)^2}\right\}$$

$$\left\{X4,\ \text{ORTHOCENTER},\ X95,\ \text{CEVAPOINT OF CENTROID AND CIRCUMCENTER},\ -\left(\left(4\left(8l^8r^2+136l^6r^4-136l^4r^6-8l^2r^8-96l^6r^3R-448l^4r^5R-96l^2r^7R-l^8R^2-64l^6r^2R^2-190l^4r^4R^2-448l^2r^6R^2-r^8R^2+16l^6rR^3+496l^4r^3R^3-1008l^2r^5R^3-16r^7R^3+8l^6R^4-24l^4r^2R^4-968l^2r^4R^4-104r^6R^4-96l^4rR^5+64l^2r^3R^5-352r^5R^5-16l^4R^6+608l^2r^2R^6-656r^4R^6+128l^2rR^7-640r^3R^7-256r^2R^8\right)\right)\Big/\left(l^4+18l^2r^2+r^4-8l^2rR+8r^3R-4l^2R^2+20r^2R^2+16rR^3\right)^2\right)\right\}$$

$$\left\{X4,\ \text{ORTHOCENTER},\ X96,\ \text{ISOGONAL CONJUGATE OF } X(52),\ -\frac{1}{\left(l^4-14l^2r^2+r^4-8l^2rR+8r^3R+16r^2R^2-4R^4\right)^2}4\left(l^{10}-21l^8r^2+106l^6r^4-106l^4r^6+21l^2r^8-r^{10}-20l^8rR+272l^6r^3R-696l^4r^5R+272l^2r^7R-20r^9R-8l^8R^2+292l^6r^2R^2-1672l^4r^4R^2+1380l^2r^6R^2-168r^8R^2+128l^6rR^3-1824l^4r^3R^3+3488l^2r^5R^3-768r^7R^3+20l^6R^4-988l^4r^2R^4+4636l^2r^4R^4-2068r^6R^4-240l^4rR^5+3168l^2r^3R^5-3312r^5R^5-16l^4R^6+1040l^2r^2R^6-3024r^4R^6+128l^2rR^7-1408r^3R^7-256r^2R^8\right)\right\}$$

$$\{X4,\ \text{ORTHOCENTER},\ X97,\ \text{ISOGONAL CONJUGATE OF } X(53),$$
$$-\Big(\big(l^{10}-21\,l^8\,r^2+106\,l^6\,r^4-106\,l^4\,r^6+21\,l^2\,r^8-r^{10}-20\,l^8\,r\,R+272\,l^6\,r^3\,R-696\,l^4\,r^5\,R+272\,l^2\,r^7\,R-20\,r^9\,R-18\,l^8\,R^2+412\,l^6\,r^2\,R^2-1924\,l^4\,r^4\,R^2+1500\,l^2\,r^6\,R^2-178\,r^8\,R^2+288\,l^6\,r\,R^3-2944\,l^4\,r^3\,R^3+4608\,l^2\,r^5\,R^3-928\,r^7\,R^3+128\,l^6\,R^4-2800\,l^4\,r^2\,R^4+8688\,l^2\,r^4\,R^4-3136\,r^6\,R^4-1536\,l^4\,r\,R^5+10\,432\,l^2\,r^3\,R^5-7168\,r^5\,R^5-452\,l^4\,R^6+7944\,l^2\,r^2\,R^6-11\,204\,r^4\,R^6+3616\,l^2\,r\,R^7-11\,808\,r^3\,R^7+800\,l^2\,R^8-8032\,r^2\,R^8-3200\,r\,R^9-576\,R^{10}\big)\Big/\big(l^4-6\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-7\,l^2\,R^2+23\,r^2\,R^2+28\,r\,R^3+12\,R^4\big)^2\Big)\}$$

$$\{X4,\ \text{ORTHOCENTER},\ X98,\ \text{TarryPoint},$$
$$-\Big(\big(4\,(l^6-7\,l^4\,r^2+7\,l^2\,r^4-r^6-12\,l^4\,r\,R+40\,l^2\,r^3\,R-12\,r^5\,R-4\,l^4\,R^2+68\,l^2\,r^2\,R^2-52\,r^4\,R^2+32\,l^2\,r\,R^3-96\,r^3\,R^3-64\,r^2\,R^4)\big)\Big/\big(l^4-14\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R+16\,r^2\,R^2\big)\Big)\}$$

$$\{X4,\ \text{ORTHOCENTER},\ X99,\ \text{STEINER POINT},$$
$$\frac{4\,(8\,l^4\,r^2-8\,l^2\,r^4-32\,l^2\,r^3\,R+l^4\,R^2-50\,l^2\,r^2\,R^2+r^4\,R^2-8\,l^2\,r\,R^3+8\,r^3\,R^3+16\,r^2\,R^4)}{l^4-14\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R+16\,r^2\,R^2}\}$$

$$\{X4,\ \text{ORTHOCENTER},\ X100,\ \text{ANTICOMPLEMENT OF FEUERBACH POINT},\ \frac{4\,(-l^2\,r+r^3+5\,r^2\,R+6\,r\,R^2-R^3)}{2\,r-R}\}$$

$$\{X5,\ \text{NINE-POINT CENTER},\ X6,\ \text{SYMMEDIAN POINT},$$
$$\frac{8\,l^4\,r^2-8\,l^2\,r^4-32\,l^2\,r^3\,R+l^4\,R^2-50\,l^2\,r^2\,R^2+r^4\,R^2-8\,l^2\,r\,R^3+8\,r^3\,R^3+16\,r^2\,R^4}{4\,(l^2-r^2-4\,r\,R)^2}\}$$

$$\{X5,\ \text{NINE-POINT CENTER},\ X7,\ \text{GERGONNE POINT},$$
$$-\frac{6\,l^2\,r^2+2\,r^4-24\,l^2\,r\,R+24\,r^3\,R+95\,r^2\,R^2+120\,r\,R^3-16\,R^4}{4\,(r+4\,R)^2}\}$$

$$\{X5,\ \text{NINE-POINT CENTER},\ X8,\ \text{NAGEL POINT},\ \frac{1}{4}\,(2\,l^2+6\,r^2-32\,r\,R+R^2)\}$$

$$\{X5,\ \text{NINE-POINT CENTER},\ X9,\ \text{MITTENPUNKT},\ \frac{-4\,l^2\,r^2-4\,l^2\,r\,R+r^2\,R^2+8\,r\,R^3+16\,R^4}{4\,(r+4\,R)^2}\}$$

$$\{X5,\ \text{NINE-POINT CENTER},\ X10,\ \text{SPIEKER CENTER},\ -\frac{1}{4}\,(2\,r-R)\,R\}$$

$$\{X5,\ \text{NINE-POINT CENTER},\ X11,\ \text{FEUERBACH POINT},\ \frac{R^2}{4}\}$$

$$\{X5,\ \text{NINE-POINT CENTER},\ X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ \frac{(2\,r-R)^2\,R^2}{4\,(2\,r+R)^2}\}$$

$$\{X5,\ \text{NINE-POINT CENTER},\ X13,\ \text{FERMAT POINT},$$
$$\frac{4\sqrt{3}\,l^3\,r-8\,l^2\,r^2-4\sqrt{3}\,l\,r^3-16\sqrt{3}\,l\,r^2\,R+3\,l^2\,R^2-18\sqrt{3}\,l\,r\,R^2-3\,r^2\,R^2-12\,r\,R^3}{12\,(l^2+2\sqrt{3}\,l\,r-r^2-4\,r\,R)}\}$$

$$\{X5,\ \text{NINE-POINT CENTER},\ X14,\ \text{2nd ISOGONIC CENTER},$$
$$-\frac{4\sqrt{3}\,l^3\,r+8\,l^2\,r^2-4\sqrt{3}\,l\,r^3-16\sqrt{3}\,l\,r^2\,R-3\,l^2\,R^2-18\sqrt{3}\,l\,r\,R^2+3\,r^2\,R^2+12\,r\,R^3}{12\,(l^2-2\sqrt{3}\,l\,r-r^2-4\,r\,R)}\}$$

$$\{X5,\ \text{NINE-POINT CENTER},\ X15,\ \text{1st ISODYNAMIC POINT},$$
$$-\frac{4\sqrt{3}\,l^3\,r-8\,l^2\,r^2-4\sqrt{3}\,l\,r^3-16\sqrt{3}\,l\,r^2\,R-l^2\,R^2-10\sqrt{3}\,l\,r\,R^2+r^2\,R^2+4\,r\,R^3}{4\,(l^2+2\sqrt{3}\,l\,r-r^2-4\,r\,R)}\}$$

$$\left\{\text{X5, NINE-POINT CENTER, X16, 2nd ISODYNAMIC POINT, } \frac{4\sqrt{3}\,l^3 r+8 l^2 r^2-4\sqrt{3}\,l r^3-16\sqrt{3}\,l r^2 R+l^2 R^2-10\sqrt{3}\,l r R^2-r^2 R^2-4 r R^3}{4\left(l^2-2\sqrt{3}\,l r-r^2-4 r R\right)}\right\}$$

$$\left\{\text{X5, NINE-POINT CENTER, X17, 1st NAPOLEON POINT, } -\left(\left(3\left(l^2-2\sqrt{3}\,l r-r^2-4 r R\right)\left(4\sqrt{3}\,l^3 r+8 l^2 r^2-4\sqrt{3}\,l r^3-16\sqrt{3}\,l r^2 R-3 l^2 R^2-18\sqrt{3}\,l r R^2+3 r^2 R^2+12 r R^3\right)\right)\Big/\left(4\left(3 l^2+10\sqrt{3}\,l r-3 r^2-12 r R\right)^2\right)\right)\right\}$$

$$\left\{\text{X5, NINE-POINT CENTER, X18, 2nd NAPOLEON POINT, } \left(3\left(l^2+2\sqrt{3}\,l r-r^2-4 r R\right)\left(4\sqrt{3}\,l^3 r-8 l^2 r^2-4\sqrt{3}\,l r^3-16\sqrt{3}\,l r^2 R+3 l^2 R^2-18\sqrt{3}\,l r R^2-3 r^2 R^2-12 r R^3\right)\right)\Big/\left(4\left(3 l^2-10\sqrt{3}\,l r-3 r^2-12 r R\right)^2\right)\right\}$$

$$\left\{\text{X5, NINE-POINT CENTER, X19, CLAWSON POINT, } -\frac{1}{4\left(l^2-r^2-6 r R-8 R^2\right)^2}\left(4 l^6-8 l^4 r^2+4 l^2 r^4-24 l^4 r R+24 l^2 r^3 R-33 l^4 R^2+66 l^2 r^2 R^2-r^4 R^2+108 l^2 r R^3-12 r^3 R^3+80 l^2 R^4-52 r^2 R^4-96 r R^5-64 R^6\right)\right\}$$

$$\left\{\text{X5, NINE-POINT CENTER, X20, DE LONGCHAMPS POINT, } -\frac{9}{4}\left(2 l^2-2 r^2-8 r R-9 R^2\right)\right\}$$

$$\left\{\text{X5, NINE-POINT CENTER, X21, SCHIFFLER POINT, } \frac{(2 r+R)^2\left(-2 l^2+2 r^2+8 r R+9 R^2\right)}{4(2 r+3 R)^2}\right\}$$

$$\left\{\text{X5, NINE-POINT CENTER, X22, ExeterPoint, } -\frac{\left(2 l^2-2 r^2-8 r R-9 R^2\right)\left(l^2-r^2-4 r R-R^2\right)^2}{4\left(l^2-r^2-4 r R-3 R^2\right)^2}\right\}$$

$$\left\{\text{X5, NINE-POINT CENTER, X23, FarOutPoint, } -\frac{\left(2 l^2-2 r^2-8 r R-3 R^2\right)^2}{4\left(2 l^2-2 r^2-8 r R-9 R^2\right)}\right\}$$

$$\left\{\text{X5, NINE-POINT CENTER, X24, PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE, } -\frac{\left(2 l^2-2 r^2-8 r R-9 R^2\right)\left(l^2-r^2-4 r R-3 R^2\right)^2}{4\left(l^2-r^2-4 r R-5 R^2\right)^2}\right\}$$

$$\left\{\text{X5, NINE-POINT CENTER, X25, HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES, } -\frac{\left(2 l^2-2 r^2-8 r R-9 R^2\right)\left(l^2-r^2-4 r R-2 R^2\right)^2}{4\left(l^2-r^2-4 r R-6 R^2\right)^2}\right\}$$

$$\left\{\text{X5, NINE-POINT CENTER, X26, CIRCUMCENTER OF THE TANGENTIAL TRIANGLE, } -\frac{\left(2 l^2-2 r^2-8 r R-9 R^2\right)\left(l^2-r^2-4 r R-2 R^2\right)^2}{4(l-r-2 R)^2(l+r+2 R)^2}\right\}$$

$$\left\{\text{X5, NINE-POINT CENTER, X27, CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER, } -\frac{\left(2 l^2-2 r^2-8 r R-9 R^2\right)\left(3 l^2-r^2-4 r R-4 R^2\right)^2}{4\left(l^2-3 r^2-12 r R-12 R^2\right)^2}\right\}$$

$$\left\{\text{X5, NINE-POINT CENTER, X28, CEVAPOINT OF X(19) AND X(25), } -\frac{\left(2 l^2-2 r^2-8 r R-9 R^2\right)\left(l^2-r^2-3 r R-2 R^2\right)^2}{4\left(l^2-r^2-5 r R-6 R^2\right)^2}\right\}$$

$$\left\{X5,\ \text{NINE-POINT CENTER},\ X29,\ \text{CEVAPOINT OF INCENTER AND ORTHOCENTER},\ -\frac{\left(2 l^2-2 r^2-8 r R-9 R^2\right)\left(l^2-3 r^2-8 r R-4 R^2\right)^2}{4\left(3 l^2-r^2-8 r R-12 R^2\right)^2}\right\}$$

$$\left\{X5,\ \text{NINE-POINT CENTER},\ X30,\ \text{EulerInfinityPoint},\ \infty\right\}$$

$$\left\{X5,\ \text{NINE-POINT CENTER},\ X31,\ \text{SecondPowerPoint},\ \frac{12 l^4 r^2-40 l^2 r^4+12 r^6-96 l^2 r^3 R+96 r^5 R+l^4 R^2-54 l^2 r^2 R^2+233 r^4 R^2-12 l^2 r R^3+164 r^3 R^3+36 r^2 R^4}{4\left(l^2-3 r^2-6 r R\right)^2}\right\}$$

$$\left\{X5,\ \text{NINE-POINT CENTER},\ X32,\ \text{ThirdPowerPoint},\ \left(16 l^8 r^2-112 l^6 r^4+112 l^4 r^6-16 l^2 r^8-192 l^6 r^3 R+640 l^4 r^5 R-192 l^2 r^7 R+l^8 R^2-76 l^6 r^2 R^2+1062 l^4 r^4 R^2-844 l^2 r^6 R^2+r^8 R^2-16 l^6 r R^3+624 l^4 r^3 R^3-1648 l^2 r^5 R^3+16 r^7 R^3+96 l^4 r^2 R^4-1344 l^2 r^4 R^4+96 r^6 R^4-256 l^2 r^3 R^5+256 r^5 R^5+256 r^4 R^6\right)\Big/\left(4\left(l^2-2 l r-r^2-4 r R\right)^2\left(l^2+2 l r-r^2-4 r R\right)^2\right)\right\}$$

$$\left\{X5,\ \text{NINE-POINT CENTER},\ X33,\ \text{PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES},\ \frac{1}{4\left(l^2-r^2-2 r R-4 R^2\right)^2}\left(4 l^4 r^2-8 l^2 r^4+4 r^6-40 l^2 r^3 R+40 r^5 R+l^4 R^2-50 l^2 r^2 R^2+145 r^4 R^2-4 l^2 r R^3+228 r^3 R^3-8 l^2 R^4+140 r^2 R^4+16 r R^5+16 R^6\right)\right\}$$

$$\left\{X5,\ \text{NINE-POINT CENTER},\ X34,\ X(4)\text{-BETH CONJUGATE OF } X(4),\ \frac{1}{4\left(l^2-r^2-6 r R-4 R^2\right)^2}\left(4 l^4 r^2-8 l^2 r^4+4 r^6-8 l^4 r R-8 l^2 r^3 R+16 r^5 R+l^4 R^2+30 l^2 r^2 R^2+r^4 R^2+52 l^2 r R^3-84 r^3 R^3-8 l^2 R^4-148 r^2 R^4-80 r R^5+16 R^6\right)\right\}$$

$$\left\{X5,\ \text{NINE-POINT CENTER},\ X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),\ \frac{-8 l^2 r^2+8 r^4-4 l^2 r R+44 r^3 R+64 r^2 R^2+8 r R^3+R^4}{4(2 r+R)^2}\right\}$$

$$\left\{X5,\ \text{NINE-POINT CENTER},\ X36,\ \text{INVERSE-IN-CIRCUMCIRCLE OF INCENTER},\ \frac{-4 l^2 r+4 r^3+12 r^2 R+14 r R^2-R^3}{4(2 r-R)}\right\}$$

$$\left\{X5,\ \text{NINE-POINT CENTER},\ X37,\ \text{CrosspointOfIncenterAndCentroid},\ -\frac{R\left(8 l^4 r-24 l^2 r^3-l^4 R-50 l^2 r^2 R-r^4 R-8 l^2 r R^2-8 r^3 R^2-16 r^2 R^3\right)}{4\left(l^2+r^2+4 r R\right)^2}\right\}$$

$$\left\{X5,\ \text{NINE-POINT CENTER},\ X38,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(75),\ -\frac{1}{4\left(l^2+r^2-2 r R\right)^2}\left(4 l^4 r^2+8 l^2 r^4+4 r^6+8 l^4 r R-64 l^2 r^3 R+56 r^5 R-l^4 R^2-130 l^2 r^2 R^2+271 r^4 R^2+4 l^2 r R^3+452 r^3 R^3-4 r^2 R^4\right)\right\}$$

$$\left\{X5,\ \text{NINE-POINT CENTER},\ X39,\ \text{BrocardMidpoint},\ \frac{R^2\left(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)^2}{4\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)^2}\right\}$$

$$\left\{X5,\ \text{NINE-POINT CENTER},\ X40,\ \text{BEVAN POINT},\ \frac{1}{4}\left(-4 l^2+4 r R+25 R^2\right)\right\}$$

$$\left\{X5,\ \text{NINE-POINT CENTER},\ X41,\ X(6)\text{-CEVA CONJUGATE OF } X(31),\ -\left(\left(12 l^6 r^2-40 l^4 r^4+12 l^2 r^6+8 l^6 r R-176 l^4 r^3 R+136 l^2 r^5 R-185 l^4 r^2 R^2+550 l^2 r^4 R^2-r^6 R^2-44 l^4 r R^3+948 l^2 r^3 R^3-16 r^5 R^3-4 l^4 R^4+640 l^2 r^2 R^4-96 r^4 R^4+64 l^2 r R^5-256 r^3 R^5-256 r^2 R^6\right)\Big/\left(4\left(3 l^2 r-r^3+2 l^2 R-8 r^2 R-16 r R^2\right)^2\right)\right)\right\}$$

$$\left\{\text{X5, NINE-POINT CENTER, X42, CROSSPOINT OF INCENTER AND SYMMEDIAN POINT,}\ \frac{4 l^4 r^2+8 l^2 r^4+4 r^6+16 l^2 r^3 R+16 r^5 R+l^4 R^2-46 l^2 r^2 R^2-31 r^4 R^2-4 l^2 r R^3-132 r^3 R^3+4 r^2 R^4}{4\left(l^2+r^2-2 r R\right)^2}\right\}$$

$$\left\{\text{X5, NINE-POINT CENTER, X43, X(6)-CEVA CONJUGATE OF X(1),}\ \frac{1}{4\left(l^2+r^2-8 r R\right)^2}\left(4 l^4 r^2+8 l^2 r^4+4 r^6+4 l^4 r R+8 l^2 r^3 R+4 r^5 R+l^4 R^2-78 l^2 r^2 R^2-79 r^4 R^2-16 l^2 r R^3-144 r^3 R^3+64 r^2 R^4\right)\right\}$$

$$\left\{\text{X5, NINE-POINT CENTER, X44, X(6)-LINE CONJUGATE OF X(1),}\ \frac{16 l^4 r^2-48 l^2 r^4+8 l^4 r R-120 l^2 r^3 R+l^4 R^2-150 l^2 r^2 R^2+9 r^4 R^2-24 l^2 r R^3+72 r^3 R^3+144 r^2 R^4}{4\left(l^2-3 r^2-12 r R\right)^2}\right\}$$

$$\left\{\text{X5, NINE-POINT CENTER, X45, X(9)-BETH CONJUGATE OF X(1),}\ -\frac{8 l^4 r^2+24 l^2 r^4+16 l^4 r R-48 l^2 r^3 R-l^4 R^2-150 l^2 r^2 R^2-9 r^4 R^2-24 l^2 r R^3-72 r^3 R^3-144 r^2 R^4}{4\left(l^2+3 r^2+12 r R\right)^2}\right\}$$

$$\left\{\text{X5, NINE-POINT CENTER, X46, X(4)-CEVA CONJUGATE OF X(1),}\ -\frac{4 l^2 r^2-4 l^2 r R+3 r^2 R^2+14 r R^3-R^4}{4 (r-R)^2}\right\}$$

$$\left\{\text{X5, NINE-POINT CENTER, X47, X(110)-BETH CONJUGATE OF X(34),}\ \frac{1}{4\left(l^2-3 r^2-6 r R-2 R^2\right)^2}\left(12 l^4 r^2-40 l^2 r^4+12 r^6-96 l^2 r^3 R+96 r^5 R+l^4 R^2-86 l^2 r^2 R^2+265 r^4 R^2-4 l^2 r R^3+300 r^3 R^3-4 l^2 R^4+144 r^2 R^4+8 r R^5+4 R^6\right)\right\}$$

$$\left\{\text{X5, NINE-POINT CENTER, X48, CROSSPOINT OF X(1) AND X(63),}\ -\frac{1}{4\left(3 l^2-r^2-6 r R-8 R^2\right)^2}\left(12 l^6-40 l^4 r^2+12 l^2 r^4-96 l^4 r R+96 l^2 r^3 R-73 l^4 R^2+278 l^2 r^2 R^2-r^4 R^2+324 l^2 r R^3-12 r^3 R^3+112 l^2 R^4-52 r^2 R^4-96 r R^5-64 R^6\right)\right\}$$

$$\left\{\text{X5, NINE-POINT CENTER, X49, CENTER OF SINE-TRIPLE-ANGLE CIRCLE,}\ -\frac{\left(2 l^2-2 r^2-8 r R-9 R^2\right)\left(2 l^4-12 l^2 r^2+2 r^4-16 l^2 r R+16 r^3 R-8 l^2 R^2+40 r^2 R^2+32 r R^3+9 R^4\right)}{4\left(2 l^2-2 r^2-8 r R-7 R^2\right)^2}\right\}$$

$$\left\{\text{X5, NINE-POINT CENTER, X50, X(74)-CEVA CONJUGATE OF X(184),}\ \left(16 l^8 r^2-112 l^6 r^4+112 l^4 r^6-16 l^2 r^8-192 l^6 r^3 R+640 l^4 r^5 R-192 l^2 r^7 R+l^8 R^2-148 l^6 r^2 R^2+1302 l^4 r^4 R^2-916 l^2 r^6 R^2+r^8 R^2-16 l^6 r R^3+1200 l^4 r^3 R^3-2224 l^2 r^5 R^3+16 r^7 R^3-6 l^6 R^4+546 l^4 r^2 R^4-2946 l^2 r^4 R^4+102 r^6 R^4+72 l^4 r R^5-2128 l^2 r^3 R^5+328 r^5 R^5+9 l^4 R^6-738 l^2 r^2 R^6+553 r^4 R^6-72 l^2 r R^7+456 r^3 R^7+144 r^2 R^8\right)\Big/\left(4\left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-3 l^2 R^2+19 r^2 R^2+12 r R^3\right)^2\right)\right\}$$

$$\left\{\text{X5, NINE-POINT CENTER, X51, CENTROID OF ORTHIC TRIANGLE,}\ \frac{2 l^4-12 l^2 r^2+2 r^4-16 l^2 r R+16 r^3 R-8 l^2 R^2+40 r^2 R^2+32 r R^3+9 R^4}{36 R^2}\right\}$$

$$\left\{\text{X5, NINE-POINT CENTER, X52, ORTHOCENTER OF ORTHIC TRIANGLE,}\ \frac{2 l^4-12 l^2 r^2+2 r^4-16 l^2 r R+16 r^3 R-8 l^2 R^2+40 r^2 R^2+32 r R^3+9 R^4}{4 R^2}\right\}$$

$$\{X5,\ \text{NINE-POINT CENTER},\ X53,\ \text{SYMMEDIAN POINT OF ORTHIC TRIANGLE},\ \left(R^2\left(l^8-60\,l^6\,r^2+134\,l^4\,r^4-60\,l^2\,r^6+r^8-16\,l^6\,r\,R+496\,l^4\,r^3\,R-496\,l^2\,r^5\,R+16\,r^7\,R-8\,l^6\,R^2+536\,l^4\,r^2\,R^2-1528\,l^2\,r^4\,R^2+104\,r^6\,R^2+96\,l^4\,r\,R^3-2112\,l^2\,r^3\,R^3+352\,r^5\,R^3+16\,l^4\,R^4-1184\,l^2\,r^2\,R^4+656\,r^4\,R^4-128\,l^2\,r\,R^5+640\,r^3\,R^5+256\,r^2\,R^6\right)\right)\Big/\left(4\left(l^4-6\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-4\,l^2\,R^2+20\,r^2\,R^2+16\,r\,R^3\right)^2\right)\}$$

$$\{X5,\ \text{NINE-POINT CENTER},\ X54,\ \text{KosnitaPoint},\ -\frac{\left(2\,l^2-2\,r^2-8\,r\,R-9\,R^2\right)\left(2\,l^4-12\,l^2\,r^2+2\,r^4-16\,l^2\,r\,R+16\,r^3\,R-8\,l^2\,R^2+40\,r^2\,R^2+32\,r\,R^3+9\,R^4\right)}{4\left(2\,l^2-2\,r^2-8\,r\,R-5\,R^2\right)^2}\}$$

$$\{X5,\ \text{NINE-POINT CENTER},\ X55,\ \text{INSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ \frac{-2\,l^2\,r^2+2\,r^4-2\,l^2\,r\,R+14\,r^3\,R+25\,r^2\,R^2+2\,r\,R^3+R^4}{4\,(r+R)^2}\}$$

$$\{X5,\ \text{NINE-POINT CENTER},\ X56,\ \text{EXSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ \frac{-2\,l^2\,r^2+2\,r^4+2\,l^2\,r\,R+2\,r^3\,R+r^2\,R^2-10\,r\,R^3+R^4}{4\,(r-R)^2}\}$$

$$\{X5,\ \text{NINE-POINT CENTER},\ X57,\ \text{ISOGONAL CONJUGATE OF } X(9),\ -\frac{4\,l^2\,r^2-8\,l^2\,r\,R+4\,r^3\,R+23\,r^2\,R^2+36\,r\,R^3-4\,R^4}{4\,(r-2\,R)^2}\}$$

$$\{X5,\ \text{NINE-POINT CENTER},\ X58,\ \text{ISOGONAL CONJUGATE OF } X(10),\ \frac{12\,l^4\,r^2-40\,l^2\,r^4+12\,r^6-64\,l^2\,r^3\,R+64\,r^5\,R+l^4\,R^2-62\,l^2\,r^2\,R^2+113\,r^4\,R^2-8\,l^2\,r\,R^3+56\,r^3\,R^3+16\,r^2\,R^4}{4\left(l^2-3\,r^2-4\,r\,R\right)^2}\}$$

$$\{X5,\ \text{NINE-POINT CENTER},\ X59,\ \text{ISOGONAL CONJUGATE OF } X(11),\ \left(-2\,l^6\,r+14\,l^4\,r^3-14\,l^2\,r^5+2\,r^7+22\,l^4\,r^2\,R-92\,l^2\,r^4\,R+30\,r^6\,R+24\,l^4\,r\,R^2-204\,l^2\,r^3\,R^2+172\,r^5\,R^2-l^4\,R^3-156\,l^2\,r^2\,R^3+461\,r^4\,R^3-94\,l^2\,r\,R^4+560\,r^3\,R^4+8\,l^2\,R^5+271\,r^2\,R^5+120\,r\,R^6-16\,R^7\right)\Big/\left(4\,(2\,r-R)\left(-l^2+r^2+5\,r\,R+4\,R^2\right)^2\right)\}$$

$$\{X5,\ \text{NINE-POINT CENTER},\ X60,\ \text{ISOGONAL CONJUGATE OF } X(12),\ -\left(\left(4\,l^6\,r^2-28\,l^4\,r^4+28\,l^2\,r^6-4\,r^8+2\,l^6\,r\,R-66\,l^4\,r^3\,R+150\,l^2\,r^5\,R-38\,r^7\,R-50\,l^4\,r^2\,R^2+332\,l^2\,r^4\,R^2-146\,r^6\,R^2-10\,l^4\,r\,R^3+340\,l^2\,r^3\,R^3-290\,r^5\,R^3-l^4\,R^4+144\,l^2\,r^2\,R^4-323\,r^4\,R^4+14\,l^2\,r\,R^5-194\,r^3\,R^5-49\,r^2\,R^6\right)\Big/\left(4\left(2\,l^2\,r-2\,r^3+l^2\,R-7\,r^2\,R-7\,r\,R^2\right)^2\right)\right)\}$$

$$\{X5,\ \text{NINE-POINT CENTER},\ X61,\ \text{ISOGONAL CONJUGATE OF } X(17),\ -\left(\left(3\left(l^2-2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)\left(4\sqrt{3}\,l^3\,r+8\,l^2\,r^2-4\sqrt{3}\,l\,r^3-16\sqrt{3}\,l\,r^2\,R-3\,l^2\,R^2-18\sqrt{3}\,l\,r\,R^2+3\,r^2\,R^2+12\,r\,R^3\right)\right)\Big/\left(4\left(3\,l^2+2\sqrt{3}\,l\,r-3\,r^2-12\,r\,R\right)^2\right)\right)\}$$

$$\{X5,\ \text{NINE-POINT CENTER},\ X62,\ \text{ISOGONAL CONJUGATE OF } X(18),\ \left(3\left(l^2+2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)\left(4\sqrt{3}\,l^3\,r-8\,l^2\,r^2-4\sqrt{3}\,l\,r^3-16\sqrt{3}\,l\,r^2\,R+3\,l^2\,R^2-18\sqrt{3}\,l\,r\,R^2-3\,r^2\,R^2-12\,r\,R^3\right)\right)\Big/\left(4\left(3\,l^2-2\sqrt{3}\,l\,r-3\,r^2-12\,r\,R\right)^2\right)\}$$

$$\{X5,\ \text{NINE-POINT CENTER},\ X63,\ \text{ISOGONAL CONJUGATE OF } X(19),\ -\frac{4\,l^2\,r^2-2\,l^2\,r\,R+2\,r^3\,R-2\,l^2\,R^2+13\,r^2\,R^2+22\,r\,R^3-R^4}{4\,(r+R)^2}\}$$

$$\{X5,\ \text{NINE-POINT CENTER},\ X64,\ \text{ISOGONAL CONJUGATE OF } X(20),\ -\left(\left(4\,l^6-4\,l^4\,r^2+4\,l^2\,r^4-4\,r^6-48\,l^4\,r\,R+64\,l^2\,r^3\,R-48\,r^5\,R-97\,l^4\,R^2+338\,l^2\,r^2\,R^2-289\,r^4\,R^2+776\,l^2\,r\,R^3-1032\,r^3\,R^3+648\,l^2\,R^4-2200\,r^2\,R^4-2592\,r\,R^5-1296\,R^6\right)\Big/\left(4\,(1-r-2\,R)^2\,(1+r+2\,R)^2\right)\right)\}$$

$$\{X5,\ \text{NINE-POINT CENTER},\ X65,\ \text{ORTHOCENTER OF THE INTOUCH TRIANGLE},\ \frac{2\,l^2\,r-6\,r^3-12\,r^2\,R-8\,r\,R^2+R^3}{4\,R}\}$$

$$\left\{X5,\ \text{NINE-POINT CENTER},\ X66,\ \text{ISOGONAL CONJUGATE OF } X(22),\ \frac{1}{4\,(l-r-2R)^2\,(l+r+2R)^2\,\left(l^2-r^2-4rR\right)^2}\left(8l^8r^2-24l^6r^4+24l^4r^6-8l^2r^8-96l^6r^3R+192l^4r^5R-96l^2r^7R-3l^8R^2-52l^6r^2R^2+494l^4r^4R^2-436l^2r^6R^2-3r^8R^2+48l^6rR^3+368l^4r^3R^3-880l^2r^5R^3-48r^7R^3+8l^6R^4-120l^4r^2R^4-616l^2r^4R^4-296r^6R^4-96l^4rR^5+192l^2r^3R^5-864r^5R^5+16l^4R^6+160l^2r^2R^6-1136r^4R^6-128l^2rR^7-384r^3R^7+256r^2R^8\right)\right\}$$

$$\left\{X5,\ \text{NINE-POINT CENTER},\ X67,\ \text{ISOGONAL CONJUGATE OF } X(23),\ \left(2l^8+16l^6r^2-36l^4r^4+16l^2r^6+2r^8-32l^6rR-96l^4r^3R+96l^2r^5R+32r^7R-6l^6R^2-6l^4r^2R^2+198l^2r^4R^2+198r^6R^2+72l^4rR^3+208l^2r^3R^3+584r^5R^3-9l^4R^4+162l^2r^2R^4+791r^4R^4+72l^2rR^5+312r^3R^5-144r^2R^6\right)\Big/\left(4\left(l^2-r^2-4rR\right)^2\left(2l^2-2r^2-8rR-9R^2\right)\right)\right\}$$

$$\left\{X5,\ \text{NINE-POINT CENTER},\ X68,\ \text{PRASOLOV POINT},\ \frac{8l^4r^2-8l^2r^4-32l^2r^3R+l^4R^2-50l^2r^2R^2+r^4R^2-8l^2rR^3+8r^3R^3+16r^2R^4}{4\,(l-r-2R)^2\,(l+r+2R)^2}\right\}$$

$$\left\{X5,\ \text{NINE-POINT CENTER},\ X69,\ \text{SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},\ \frac{1}{4\left(l^2-r^2-4rR\right)^2}\left(2l^6+10l^4r^2-10l^2r^4-2r^6-24l^4rR-16l^2r^3R-24r^5R+l^4R^2-98l^2r^2R^2-95r^4R^2-8l^2rR^3-120r^3R^3+16r^2R^4\right)\right\}$$

$$\left\{X5,\ \text{NINE-POINT CENTER},\ X70,\ \text{ISOGONAL CONJUGATE OF } X(26),\ \left(8l^8r^2-24l^6r^4+24l^4r^6-8l^2r^8-96l^6r^3R+192l^4r^5R-96l^2r^7R-l^8R^2-84l^6r^2R^2+554l^4r^4R^2-468l^2r^6R^2-r^8R^2+16l^6rR^3+656l^4r^3R^3-1168l^2r^5R^3-16r^7R^3+6l^6R^4+214l^4r^2R^4-1526l^2r^4R^4-102r^6R^4-72l^4rR^5-912l^2r^3R^5-328r^5R^5-8l^4R^6-104l^2r^2R^6-552r^4R^6+64l^2rR^7-448r^3R^7-2l^2R^8-126r^2R^8+8rR^9+9R^{10}\right)\Big/\left(4\left(l^4-2l^2r^2+r^4-8l^2rR+8r^3R-6l^2R^2+22r^2R^2+24rR^3+7R^4\right)^2\right)\right\}$$

$$\left\{X5,\ \text{NINE-POINT CENTER},\ X71,\ \text{ISOGONAL CONJUGATE OF } X(27),\ -\frac{1}{4\left(l^2+r^2+6rR+8R^2\right)^2}\left(4l^6+8l^4r^2+4l^2r^4+16l^4rR+16l^2r^3R-17l^4R^2-2l^2r^2R^2-r^4R^2-76l^2rR^3-12r^3R^3-80l^2R^4-52r^2R^4-96rR^5-64R^6\right)\right\}$$

$$\left\{X5,\ \text{NINE-POINT CENTER},\ X72,\ \text{ISOGONAL CONJUGATE OF } X(28),\ \frac{2l^2r-6r^3+2l^2R-26r^2R-28rR^2+R^3}{4R}\right\}$$

$$\left\{X5,\ \text{NINE-POINT CENTER},\ X73,\ \text{CROSSPOINT OF INCENTER AND CIRCUMCENTER},\ \frac{1}{4\left(l^2+r^2-2rR-4R^2\right)^2}\left(4l^4r^2+8l^2r^4+4r^6-8l^4rR+8r^5R+l^4R^2-14l^2r^2R^2+r^4R^2+60l^2rR^3+28r^3R^3-8l^2R^4-4r^2R^4-112rR^5+16R^6\right)\right\}$$

$$\left\{X5,\ \text{NINE-POINT CENTER},\ X74,\ \text{ISOGONAL CONJUGATE OF EULER INFINITY POINT},\ -\frac{6l^4-4l^2r^2+6r^4-48l^2rR+48r^3R-80l^2R^2+176r^2R^2+320rR^3+225R^4}{4\left(2l^2-2r^2-8rR-9R^2\right)}\right\}$$

$$\left\{X5,\ \text{NINE-POINT CENTER},\ X75,\ \text{ISOTOMIC CONJUGATE OF INCENTER},\ \frac{1}{4\left(l^2+r^2+4rR\right)^2}\left(2l^6+2l^4r^2-2l^2r^4-2r^6-40l^4rR+64l^2r^3R-24r^5R+l^4R^2+98l^2r^2R^2-95r^4R^2+8l^2rR^3-120r^3R^3+16r^2R^4\right)\right\}$$

$$\left\{\text{X5, NINE-POINT CENTER, X76, 3rd BROCARD POINT, } \frac{1}{4\left(l^4+2l^2r^2+r^4-8l^2rR+8r^3R+16r^2R^2\right)^2}\right.$$
$$\left(2l^{10}+6l^8r^2+4l^6r^4-4l^4r^6-6l^2r^8-2r^{10}-40l^8rR-32l^6r^3R+16l^4r^5R-32l^2r^7R-40r^9R+\right.$$
$$\left.\left.l^8R^2+100l^6r^2R^2+390l^4r^4R^2-28l^2r^6R^2-319r^8R^2-16l^6rR^3+496l^4r^3R^3-240l^2r^5R^3-\right.\right.$$
$$\left.\left.1264r^7R^3+96l^4r^2R^4-1088l^2r^4R^4-2464r^6R^4-256l^2r^3R^5-1792r^5R^5+256r^4R^6\right)\right\}$$

$$\left\{\text{X5, NINE-POINT CENTER, X77, ISOGONAL CONJUGATE OF X(33),}\right.$$
$$\frac{1}{4\left(l^2-rR-4R^2\right)^2}\left(4l^4r^2-10l^4rR+2l^2r^3R+l^4R^2+\right.$$
$$\left.\left.14l^2r^2R^2-2r^4R^2+70l^2rR^3-24r^3R^3-8l^2R^4-95r^2R^4-120rR^5+16R^6\right)\right\}$$

$$\left\{\text{X5, NINE-POINT CENTER, X78, ISOGONAL CONJUGATE OF X(34),}\right.$$
$$\left.\frac{4r^4+2l^2rR+6r^3R+2l^2R^2-21r^2R^2-34rR^3+R^4}{4(r-R)^2}\right\}$$

$$\left\{\text{X5, NINE-POINT CENTER, X79, ISOGONAL CONJUGATE OF X(35),}\right.$$
$$\left.-\frac{16l^2r^2-24l^2rR+8r^3R+56r^2R^2+96rR^3-9R^4}{4(2r+3R)^2}\right\}$$

$$\left\{\text{X5, NINE-POINT CENTER, X80, REFLECTION OF INCENTER IN FEUERBACH POINT, } \frac{1}{4}(2r+R)^2\right\}$$

$$\left\{\text{X5, NINE-POINT CENTER, X81, CEVAPOINT OF INCENTER AND SYMMEDIAN POINT,}\right.$$
$$\left.\frac{8l^4r^2-8l^2r^4-2l^4rR-20l^2r^3R-2r^5R+l^4R^2-36l^2r^2R^2-13r^4R^2-2l^2rR^3-22r^3R^3+r^2R^4}{4\left(l^2-r^2-rR\right)^2}\right\}$$

$$\left\{\text{X5, NINE-POINT CENTER, X82, ISOGONAL CONJUGATE OF X(38),}\right.$$
$$\frac{1}{4\left(l^4-4l^2r^2+3r^4-9l^2rR+19r^3R+28r^2R^2\right)^2}$$
$$\left(12l^8r^2-64l^6r^4+104l^4r^6-64l^2r^8+12r^{10}-2l^8rR-196l^6r^3R+704l^4r^5R-700l^2r^7R+194r^9R+\right.$$
$$\left.\left.l^8R^2-18l^6r^2R^2+1372l^4r^4R^2-2766l^2r^6R^2+1219r^8R^2-18l^6rR^3+438l^4r^3R^3-4430l^2r^5R^3+\right.\right.$$
$$\left.\left.3690r^7R^3+137l^4r^2R^4-2198l^2r^4R^4+5361r^6R^4-504l^2r^3R^5+3240r^5R^5+784r^4R^6\right)\right\}$$

$$\left\{\text{X5, NINE-POINT CENTER, X83, CEVAPOINT OF CENTROID AND SYMMEDIAN POINT,}\right.$$
$$-\left(\left(\left(l^4-14l^2r^2+r^4-8l^2rR+8r^3R+16r^2R^2\right)\left(6l^6-26l^4r^2+26l^2r^4-6r^6-72l^4rR+176l^2r^3R-\right.\right.\right.$$
$$\left.\left.\left.72r^5R-25l^4R^2+350l^2r^2R^2-313r^4R^2+200l^2rR^3-584r^3R^3-400r^2R^4\right)\right)\Big/$$
$$\left.\left.\left(4\left(5l^4-6l^2r^2+5r^4-40l^2rR+40r^3R+80r^2R^2\right)^2\right)\right)\right\}$$

$$\left\{\text{X5, NINE-POINT CENTER, X84, ISOGONAL CONJUGATE OF X(40),}\right.$$
$$\left.-\frac{4l^2r^2-20l^2rR+8r^3R+16l^2R^2+31r^2R^2+16rR^3-64R^4}{4r^2}\right\}$$

$$\left\{\text{X5, NINE-POINT CENTER, X85, ISOTOMIC CONJUGATE OF X(9), } \frac{1}{4\left(l^2+r^2+8rR+16R^2\right)^2}\right.$$
$$\left(2l^6+2l^4r^2-2l^2r^4-2r^6-56l^4rR+32l^2r^3R-40r^5R-31l^4R^2+354l^2r^2R^2-\right.$$
$$\left.\left.319r^4R^2+784l^2rR^3-1264r^3R^3+32l^2R^4-2464r^2R^4-1792rR^5+256R^6\right)\right\}$$

$$\left\{\text{X5, NINE-POINT CENTER, X86, CEVAPOINT OF INCENTER AND CENTROID,}\right.$$
$$-\frac{1}{4\left(5l^2+r^2+4rR\right)^2}\left(6l^6-50l^4r^2+10l^2r^4+2r^6-8l^4rR+16l^2r^3R+\right.$$
$$\left.\left.24r^5R-25l^4R^2+86l^2r^2R^2+95r^4R^2-40l^2rR^3+120r^3R^3-16r^2R^4\right)\right\}$$

{X5, NINE-POINT CENTER, X87, X(2)-CROSS CONJUGATE OF X(1),

$$\frac{1}{4\left(l^4+2l^2r^2+r^4-20l^2rR+12r^3R+32r^2R^2\right)^2}\left(4l^8r^2+16l^6r^4+24l^4r^6+16l^2r^8+4r^{10}+4l^8rR-144l^6r^3R-200l^4r^5R+48l^2r^7R+100r^9R+l^8R^2-108l^6r^2R^2+1654l^4r^4R^2-1484l^2r^6R^2+849r^8R^2-40l^6rR^3+1032l^4r^3R^3-3960l^2r^5R^3+3160r^7R^3+464l^4r^2R^4-5728l^2r^4R^4+5072r^6R^4-1280l^2r^3R^5+2816r^5R^5+1024r^4R^6\right)\}$$

{X5, NINE-POINT CENTER, X88, ISOGONAL CONJUGATE OF X(44),

$$-\frac{(2r-R)\left(4l^4r+12l^2r^3+l^4R-72l^2r^2R+27r^4R-30l^2rR^2+144r^3R^2+225r^2R^3\right)}{4\left(l^2+3r^2-15rR\right)^2}\}$$

{X5, NINE-POINT CENTER, X89, ISOGONAL CONJUGATE OF X(45),

$$\frac{1}{4\left(2l^2-6r^2+3rR\right)^2}\left(64l^4r^2-192l^2r^4-4l^4rR-48l^2r^3R-108r^5R+4l^4R^2-330l^2r^2R^2-666r^4R^2+12l^2rR^3-1116r^3R^3+9r^2R^4\right)\}$$

{X5, NINE-POINT CENTER, X90, X(3)-CROSS CONJUGATE OF X(1),

$$-\frac{4l^2r^4-8l^2r^3R+4r^5R-4l^2r^2R^2+27r^4R^2+52r^3R^3+18r^2R^4-R^6}{4\left(r^2+2rR-R^2\right)^2}\}$$

{X5, NINE-POINT CENTER, X91, ISOGONAL CONJUGATE OF X(47),

$$\left(2l^6r^2+2l^4r^4-2l^2r^6-2r^8+2l^6rR-42l^4r^3R+54l^2r^5R-30r^7R-47l^4r^2R^2+226l^2r^4R^2-175r^6R^2-14l^4rR^3+348l^2r^3R^3-502r^5R^3+l^4R^4+182l^2r^2R^4-747r^4R^4+24l^2rR^5-568r^3R^5-4l^2R^6-176r^2R^6-8rR^7+4R^8\right)/\left(4\left(l^2r+r^3-l^2R+3r^2R+2rR^2+2R^3\right)^2\right)\}$$

{X5, NINE-POINT CENTER, X92, CEVAPOINT OF INCENTER AND CLAWSON POINT,

$$\frac{1}{4\left(l^2+r^2-4R^2\right)^2}\left(2l^6+2l^4r^2-2l^2r^4-2r^6-48l^4rR+48l^2r^3R-32r^5R-15l^4R^2+242l^2r^2R^2-191r^4R^2+288l^2rR^3-544r^3R^3+24l^2R^4-744r^2R^4-384rR^5+16R^6\right)\}$$

{X5, NINE-POINT CENTER, X93, ISOGONAL CONJUGATE OF X(49),

$$\left(2l^{10}+6l^8r^2+4l^6r^4-4l^4r^6-6l^2r^8-2r^{10}-40l^8rR-32l^6r^3R+16l^4r^5R-32l^2r^7R-40r^9R-15l^8R^2+36l^6r^2R^2+294l^4r^4R^2-92l^2r^6R^2-335r^8R^2+240l^6rR^3+752l^4r^3R^3-496l^2r^5R^3-1520r^7R^3+24l^6R^4+376l^4r^2R^4-1880l^2r^4R^4-4024r^6R^4-288l^4rR^5-3136l^2r^3R^5-6176r^5R^5+34l^4R^6-2012l^2r^2R^6-4958r^4R^6-272l^2rR^7-1264r^3R^7-90l^2R^8+634r^2R^8+360rR^9+81R^{10}\right)/\left(4\left(l^4+2l^2r^2+r^4-8l^2rR+8r^3R-8l^2R^2+24r^2R^2+32rR^3+13R^4\right)^2\right)\}$$

{X5, NINE-POINT CENTER, X94, ISOGONAL CONJUGATE OF X(50),

$$\left(2l^{10}+6l^8r^2+4l^6r^4-4l^4r^6-6l^2r^8-2r^{10}-40l^8rR-32l^6r^3R+16l^4r^5R-32l^2r^7R-40r^9R-11l^8R^2+52l^6r^2R^2+318l^4r^4R^2-76l^2r^6R^2-331r^8R^2+176l^6rR^3+688l^4r^3R^3-432l^2r^5R^3-1456r^7R^3-24l^6R^4+456l^4r^2R^4-1832l^2r^4R^4-3592r^6R^4+288l^4rR^5-3520l^2r^3R^5-4576r^5R^5+306l^4R^6-3708l^2r^2R^6-1358r^4R^6-2448l^2rR^7+3984r^3R^7-810l^2R^8+5706r^2R^8+3240rR^9+729R^{10}\right)/\left(4\left(l^4+2l^2r^2+r^4-8l^2rR+8r^3R-12l^2R^2+28r^2R^2+48rR^3+27R^4\right)^2\right)\}$$

{X5, NINE-POINT CENTER, X95, CEVAPOINT OF CENTROID AND CIRCUMCENTER,

$$\left(2l^{10}+6l^8r^2-508l^6r^4+508l^4r^6-6l^2r^8-2r^{10}-40l^8rR-32l^6r^3R+2064l^4r^5R-32l^2r^7R-40r^9R-15l^8R^2+132l^6r^2R^2+2278l^4r^4R^2+4l^2r^6R^2-335r^8R^2+240l^6rR^3-16l^4r^3R^3+272l^2r^5R^3-1520r^7R^3+24l^6R^4-8l^4r^2R^4+40l^2r^4R^4-4024r^6R^4-288l^4rR^5-1600l^2r^3R^5-6176r^5R^5+16l^4R^6-1952l^2r^2R^6-4976r^4R^6-128l^2rR^7-1408r^3R^7+256r^2R^8\right)/\left(4\left(l^4+18l^2r^2+r^4-8l^2rR+8r^3R-4l^2R^2+20r^2R^2+16rR^3\right)^2\right)\}$$

$$\left\{\text{X5, NINE-POINT CENTER, X96, ISOGONAL CONJUGATE OF X(52)},\right.$$
$$-\frac{1}{4\left(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2-4 R^4\right)^2}$$
$$\left(6 l^{10}-110 l^8 r^2+396 l^6 r^4-396 l^4 r^6+110 l^2 r^8-6 r^{10}-120 l^8 r R+1440 l^6 r^3 R-3024 l^4 r^5 R+\right.$$
$$1440 l^2 r^7 R-120 r^9 R-65 l^8 R^2+1852 l^6 r^2 R^2-8646 l^4 r^4 R^2+7612 l^2 r^6 R^2-1025 r^8 R^2+$$
$$1040 l^6 r R^3-12016 l^4 r^3 R^3+20976 l^2 r^5 R^3-4880 r^7 R^3+256 l^6 R^4-8544 l^4 r^2 R^4+32576 l^2 r^4 R^4-$$
$$\left.\left.14176 r^6 R^4-3072 l^4 r R^5+28928 l^2 r^3 R^5-25856 r^5 R^5-472 l^4 R^6+14416 l^2 r^2 R^6-\right.\right.$$
$$\left.\left.29400 r^4 R^6+3776 l^2 r R^7-20160 r^3 R^7+416 l^2 R^8-7968 r^2 R^8-1664 r R^9-144 R^{10}\right)\right\}$$

$$\left\{\text{X5, NINE-POINT CENTER, X97, ISOGONAL CONJUGATE OF X(53)},\right.$$
$$\left(16 l^8 r^2-112 l^6 r^4+112 l^4 r^6-16 l^2 r^8-192 l^6 r^3 R+640 l^4 r^5 R-192 l^2 r^7 R+3 l^8 R^2-204 l^6 r^2 R^2+\right.$$
$$1442 l^4 r^4 R^2-972 l^2 r^6 R^2+3 r^8 R^2-48 l^6 r R^3+1680 l^4 r^3 R^3-2704 l^2 r^5 R^3+48 r^7 R^3-32 l^6 R^4+$$
$$1192 l^4 r^2 R^4-4552 l^2 r^4 R^4+320 r^6 R^4+384 l^4 r R^5-4768 l^2 r^3 R^5+1152 r^5 R^5+121 l^4 R^6-$$
$$\left.2962 l^2 r^2 R^6+2425 r^4 R^6-968 l^2 r R^7+3016 r^3 R^7-200 l^2 R^8+2136 r^2 R^8+800 r R^9+144 R^{10}\right)/$$
$$\left.\left(4\left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-7 l^2 R^2+23 r^2 R^2+28 r R^3+12 R^4\right)^2\right)\right\}$$

$$\left\{\text{X5, NINE-POINT CENTER, X98, TarryPoint},\right.$$
$$-\left(\left(6 l^6-26 l^4 r^2+26 l^2 r^4-6 r^6-72 l^4 r R+176 l^2 r^3 R-72 r^5 R-25 l^4 R^2+350 l^2 r^2 R^2-313 r^4 R^2+\right.\right.$$
$$\left.\left.\left.200 l^2 r R^3-584 r^3 R^3-400 r^2 R^4\right)/\left(4\left(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)\right)\right)\right\}$$

$$\left\{\text{X5, NINE-POINT CENTER, X99, STEINER POINT},\right.$$
$$\left(2 l^6+34 l^4 r^2-34 l^2 r^4-2 r^6-24 l^4 r R-112 l^2 r^3 R-24 r^5 R+l^4 R^2-206 l^2 r^2 R^2-95 r^4 R^2-\right.$$
$$\left.\left.8 l^2 r R^3-120 r^3 R^3+16 r^2 R^4\right)/\left(4\left(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)\right)\right\}$$

$$\left\{\text{X5, NINE-POINT CENTER, X100},\right.$$
$$\left.\text{ANTICOMPLEMENT OF FEUERBACH POINT}, \frac{-4 l^2 r+4 r^3-2 l^2 R+26 r^2 R+42 r R^2-R^3}{4(2 r-R)}\right\}$$

$$\left\{\text{X6, SYMMEDIAN POINT, X7, GERGONNE POINT},\right.$$
$$-\left(\left(r^2\left(3 l^6-9 l^4 r^2+5 l^2 r^4+r^6-36 l^4 r R+32 l^2 r^3 R+20 r^5 R+12 l^2 r^2 R^2+160 r^4 R^2-160 l^2 r R^3+\right.\right.\right.$$
$$\left.\left.\left.640 r^3 R^3-64 l^2 R^4+1280 r^2 R^4+1024 r R^5\right)\right)/\left((r+4 R)^2\left(-l^2+r^2+4 r R\right)^2\right)\right)\right\}$$

$$\left\{\text{X6, SYMMEDIAN POINT, X8, NAGEL POINT},\right.$$
$$\left.\frac{l^6+5 l^4 r^2-9 l^2 r^4+3 r^6-20 l^4 r R-16 l^2 r^3 R+20 r^5 R+68 l^2 r^2 R^2+16 r^4 R^2-64 r^3 R^3}{\left(l^2-r^2-4 r R\right)^2}\right\}$$

$$\left\{\text{X6, SYMMEDIAN POINT, X9, MITTENPUNKT}, -\frac{4 l^4 R\left(-l^2 r+r^3-l^2 R+8 r^2 R+16 r R^2\right)}{(r+4 R)^2\left(-l^2+r^2+4 r R\right)^2}\right\}$$

$$\left\{\text{X6, SYMMEDIAN POINT, X10, SPIEKER CENTER},\right.$$
$$\left.\frac{l^6+7 l^4 r^2-9 l^2 r^4+r^6-16 l^4 r R-24 l^2 r^3 R+8 r^5 R+16 r^4 R^2}{4\left(l^2-r^2-4 r R\right)^2}\right\}$$

$$\left\{\text{X6, SYMMEDIAN POINT, X11, FEUERBACH POINT},\right.$$
$$\left.\frac{r^2\left(4 l^4 r-4 l^2 r^3+l^4 R-18 l^2 r^2 R+r^4 R-36 l^2 r R^2+12 r^3 R^2-4 l^2 R^3+48 r^2 R^3+64 r R^4\right)}{(2 r-R)\left(-l^2+r^2+4 r R\right)^2}\right\}$$

$$\left\{\text{X6, SYMMEDIAN POINT, X12, \{X(1),X(5)\}-HARMONIC CONJUGATE OF X(11)},\right.$$
$$-\left(\left(r^2\left(-8 l^4 r^2+8 l^2 r^4-2 l^4 r R+32 l^2 r^3 R+2 r^5 R-3 l^4 R^2+46 l^2 r^2 R^2+21 r^4 R^2+\right.\right.\right.$$
$$\left.\left.\left.36 l^2 r R^3+76 r^3 R^3-4 l^2 R^4+112 r^2 R^4+64 r R^5\right)\right)/\left((2 r+R)^2\left(-l^2+r^2+4 r R\right)^2\right)\right)\right\}$$

$$\left\{\text{X6, SYMMEDIAN POINT, X13, FERMAT POINT}, -\frac{4 l^2 r^2\left(l^2-2\sqrt{3}\, l r-r^2-4 r R\right)\left(2 l^2-2 r^2-8 r R-9 R^2\right)}{3\left(l^2-r^2-4 r R\right)^2\left(l^2+2\sqrt{3}\, l r-r^2-4 r R\right)}\right\}$$

$$\left\{\text{X6, SYMMEDIAN POINT, X14, 2nd ISOGONIC CENTER, } -\frac{4 l^2 r^2 \left(l^2+2\sqrt{3}\, l r-r^2-4 r R\right)\left(2 l^2-2 r^2-8 r R-9 R^2\right)}{3\left(l^2-r^2-4 r R\right)^2\left(l^2-2\sqrt{3}\, l r-r^2-4 r R\right)}\right\}$$

$$\left\{\text{X6, SYMMEDIAN POINT, X15, 1st ISODYNAMIC POINT, } \frac{12 l^2 r^2 R^2\left(l^2-2\sqrt{3}\, l r-r^2-4 r R\right)}{\left(l^2-r^2-4 r R\right)^2\left(l^2+2\sqrt{3}\, l r-r^2-4 r R\right)}\right\}$$

$$\left\{\text{X6, SYMMEDIAN POINT, X16, 2nd ISODYNAMIC POINT, } \frac{12 l^2 r^2 R^2\left(l^2+2\sqrt{3}\, l r-r^2-4 r R\right)}{\left(l^2-r^2-4 r R\right)^2\left(l^2-2\sqrt{3}\, l r-r^2-4 r R\right)}\right\}$$

$$\left\{\text{X6, SYMMEDIAN POINT, X17, 1st NAPOLEON POINT, } \left(12 l^2 r^2\left(2 l^6+34 l^4 r^2-34 l^2 r^4-2 r^6-24 l^4 r R-112 l^2 r^3 R-24 r^5 R+l^4 R^2-206 l^2 r^2 R^2-95 r^4 R^2-8 l^2 r R^3-120 r^3 R^3+16 r^2 R^4\right)\right)\Big/\left(\left(3 l^2+10\sqrt{3}\, l r-3 r^2-12 r R\right)^2\left(l^2-r^2-4 r R\right)^2\right)\right\}$$

$$\left\{\text{X6, SYMMEDIAN POINT, X18, 2nd NAPOLEON POINT, } \left(12 l^2 r^2\left(2 l^6+34 l^4 r^2-34 l^2 r^4-2 r^6-24 l^4 r R-112 l^2 r^3 R-24 r^5 R+l^4 R^2-206 l^2 r^2 R^2-95 r^4 R^2-8 l^2 r R^3-120 r^3 R^3+16 r^2 R^4\right)\right)\Big/\left(\left(3 l^2-10\sqrt{3}\, l r-3 r^2-12 r R\right)^2\left(l^2-r^2-4 r R\right)^2\right)\right\}$$

$$\left\{\text{X6, SYMMEDIAN POINT, X19, CLAWSON POINT, } -\frac{4 l^4 R\left(2 l^4 r-4 l^2 r^3+2 r^5+l^4 R-22 l^2 r^2 R+21 r^4 R-28 l^2 r R^2+76 r^3 R^2-4 l^2 R^3+112 r^2 R^3+64 r R^4\right)}{\left(l^2-r^2-4 r R\right)^2\left(l^2-r^2-6 r R-8 R^2\right)^2}\right\}$$

$$\left\{\text{X6, SYMMEDIAN POINT, X20, DE LONGCHAMPS POINT, } -\frac{1}{\left(l^2-r^2-4 r R\right)^2}\left(3 l^6-5 l^4 r^2+5 l^2 r^4-3 r^6-36 l^4 r R+56 l^2 r^3 R-36 r^5 R-16 l^4 R^2+188 l^2 r^2 R^2-160 r^4 R^2+128 l^2 r R^3-320 r^3 R^3-256 r^2 R^4\right)\right\}$$

$$\left\{\text{X6, SYMMEDIAN POINT, X21, SCHIFFLER POINT, } -\left(\left(R\left(-2 l^6 r-2 l^4 r^3+2 l^2 r^5+2 r^7-l^6 R+11 l^4 r^2 R+49 l^2 r^4 R+21 r^6 R+12 l^4 r R^2+104 l^2 r^3 R^2+76 r^5 R^2+60 l^2 r^2 R^3+112 r^4 R^3+64 r^3 R^4\right)\right)\Big/\left((2 r+3 R)^2\left(-l^2+r^2+4 r R\right)^2\right)\right)\right\}$$

$$\left\{\text{X6, SYMMEDIAN POINT, X22, ExeterPoint, } -\left(\left(R^2\left(16 l^6 r^2-32 l^4 r^4+16 l^2 r^6-128 l^4 r^3 R+128 l^2 r^5 R-l^6 R^2-81 l^4 r^2 R^2+337 l^2 r^4 R^2+r^6 R^2+12 l^4 r R^3+312 l^2 r^3 R^3+12 r^5 R^3+60 l^2 r^2 R^4+48 r^4 R^4+64 r^3 R^5\right)\right)\Big/\left(\left(l^2-r^2-4 r R\right)^2\left(l^2-r^2-4 r R-3 R^2\right)^2\right)\right)\right\}$$

$$\left\{\text{X6, SYMMEDIAN POINT, X23, FarOutPoint, } -\frac{R^2\left(l^6+33 l^4 r^2-33 l^2 r^4-r^6-12 l^4 r R-120 l^2 r^3 R-12 r^5 R-60 l^2 r^2 R^2-48 r^4 R^2-64 r^3 R^3\right)}{\left(l^2-r^2-4 r R\right)^2\left(2 l^2-2 r^2-8 r R-9 R^2\right)}\right\}$$

$$\left\{\text{X6, SYMMEDIAN POINT, X24, PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE, } -\left(\left(R^2\left(16 l^6 r^2-32 l^4 r^4+16 l^2 r^6-128 l^4 r^3 R+128 l^2 r^5 R+l^6 R^2-143 l^4 r^2 R^2+399 l^2 r^4 R^2-r^6 R^2-12 l^4 r R^3+584 l^2 r^3 R^3-12 r^5 R^3-4 l^4 R^4+356 l^2 r^2 R^4-52 r^4 R^4+32 l^2 r R^5-96 r^3 R^5-64 r^2 R^6\right)\right)\Big/\left(\left(l^2-r^2-4 r R\right)^2\left(l^2-r^2-4 r R-5 R^2\right)^2\right)\right)\right\}$$

$$\left\{\text{X6, SYMMEDIAN POINT, X25, HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES, } -\left(\left(R^2\left(l^8+16 l^6 r^2-34 l^4 r^4+16 l^2 r^6+r^8-16 l^6 r R-112 l^4 r^3 R+112 l^2 r^5 R+16 r^7 R-4 l^6 R^2-84 l^4 r^2 R^2+308 l^2 r^4 R^2+100 r^6 R^2+48 l^4 r R^3+416 l^2 r^3 R^3+304 r^5 R^3+240 l^2 r^2 R^4+448 r^4 R^4+256 r^3 R^5\right)\right)\Big/\left(\left(l^2-r^2-4 r R\right)^2\left(l^2-r^2-4 r R-6 R^2\right)^2\right)\right)\right\}$$

$$\{X6,\ \text{SYMMEDIAN POINT},\ X26,\ \text{CIRCUMCENTER OF THE TANGENTIAL TRIANGLE},$$
$$-\left(\left(R^2\left(16 l^6 r^2-32 l^4 r^4+16 l^2 r^6-128 l^4 r^3 R+128 l^2 r^5 R-112 l^4 r^2 R^2+368 l^2 r^4 R^2+448 l^2 r^3 R^3-l^4 R^4+194 l^2 r^2 R^4-r^4 R^4+8 l^2 r R^5-8 r^3 R^5-16 r^2 R^6\right)\right)\Big/\left((l-r-2R)^2(l+r+2R)^2\left(l^2-r^2-4rR\right)^2\right)\right)\}$$

$$\{X6,\ \text{SYMMEDIAN POINT},\ X27,\ \text{CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER},$$
$$-\frac{1}{\left(l^2-r^2-4rR\right)^2\left(l^2-3r^2-12rR-12R^2\right)^2}\left(3 l^{10}-3 l^8 r^2-10 l^6 r^4+2 l^4 r^6+7 l^2 r^8+r^{10}-28 l^8 r R-32 l^6 r^3 R+40 l^4 r^5 R+64 l^2 r^7 R+20 r^9 R-8 l^8 R^2+12 l^6 r^2 R^2+120 l^4 r^4 R^2+268 l^2 r^6 R^2+168 r^8 R^2+96 l^4 r^3 R^3+736 l^2 r^5 R^3+768 r^7 R^3-16 l^6 R^4+80 l^4 r^2 R^4+1456 l^2 r^4 R^4+2064 r^6 R^4+192 l^4 r R^5+1792 l^2 r^3 R^5+3264 r^5 R^5+960 l^2 r^2 R^6+2816 r^4 R^6+1024 r^3 R^7\right)\}$$

$$\{X6,\ \text{SYMMEDIAN POINT},\ X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),$$
$$-\left(\left(R\left(l^8 r-2 l^4 r^5+r^9+l^8 R+l^6 r^2 R-25 l^4 r^4 R+7 l^2 r^6 R+16 r^8 R-20 l^6 r R^2-72 l^4 r^3 R^2+68 l^2 r^5 R^2+104 r^7 R^2-4 l^6 R^3-40 l^4 r^2 R^3+248 l^2 r^4 R^3+352 r^6 R^3+48 l^4 r R^4+400 l^2 r^3 R^4+656 r^5 R^4+240 l^2 r^2 R^5+640 r^4 R^5+256 r^3 R^6\right)\right)\Big/\left(\left(l^2-r^2-4rR\right)^2\left(l^2-r^2-5rR-6R^2\right)^2\right)\right)\}$$

$$\{X6,\ \text{SYMMEDIAN POINT},\ X29,$$
$$\text{CEVAPOINT OF INCENTER AND ORTHOCENTER},\ \frac{1}{\left(l^2-r^2-4rR\right)^2\left(3 l^2-r^2-8rR-12R^2\right)^2}\left(l^{10}+7 l^8 r^2+2 l^6 r^4-10 l^4 r^6-3 l^2 r^8+3 r^{10}-20 l^8 r R-16 l^6 r^3 R-56 l^4 r^5 R-16 l^2 r^7 R+44 r^9 R-8 l^8 R^2-28 l^6 r^2 R^2-8 l^4 r^4 R^2+4 l^2 r^6 R^2+248 r^8 R^2+128 l^6 r R^3+320 l^4 r^3 R^3+64 l^2 r^5 R^3+640 r^7 R^3+16 l^6 R^4+304 l^4 r^2 R^4-304 l^2 r^4 R^4+560 r^6 R^4-192 l^4 r R^5-1152 l^2 r^3 R^5-704 r^5 R^5-960 l^2 r^2 R^6-1792 r^4 R^6-1024 r^3 R^7\right)\}$$

$$\{X6,\ \text{SYMMEDIAN POINT},\ X30,\ \text{EulerInfinityPoint},\ \infty\}$$

$$\{X6,\ \text{SYMMEDIAN POINT},\ X31,\ \text{SecondPowerPoint},$$
$$\frac{4 r^4 R^2\left(3 l^4-14 l^2 r^2-r^4-28 l^2 r R-12 r^3 R+4 l^2 R^2-48 r^2 R^2-64 r R^3\right)}{\left(l^2-3r^2-6rR\right)^2\left(l^2-r^2-4rR\right)^2}\}$$

$$\{X6,\ \text{SYMMEDIAN POINT},\ X32,\ \text{ThirdPowerPoint},$$
$$\frac{16 l^4 r^4 R^2\left(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)}{\left(l^2-r^2-4rR\right)^2\left(l^2-2lr-r^2-4rR\right)^2\left(l^2+2lr-r^2-4rR\right)^2}\}$$

$$\{X6,\ \text{SYMMEDIAN POINT},\ X33,\ \text{PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES},$$
$$\left(4 r^2 R\left(2 l^6 r-4 l^4 r^3+2 l^2 r^5-13 l^4 r^2 R+14 l^2 r^4 R-r^6 R-28 l^4 r R^2+60 l^2 r^3 R^2-16 r^5 R^2-4 l^4 R^3+156 l^2 r^2 R^3-100 r^4 R^3+160 l^2 r R^4-304 r^3 R^4+16 l^2 R^5-448 r^2 R^5-256 r R^6\right)\right)\Big/\left(\left(l^2-r^2-4rR\right)^2\left(l^2-r^2-2rR-4R^2\right)^2\right)\}$$

$$\{X6,\ \text{SYMMEDIAN POINT},\ X34,\ X(4)\text{-BETH CONJUGATE OF } X(4),$$
$$-\left(\left(4 r^2 R(r+2R)^2\left(2 l^4 r-4 l^2 r^3+2 r^5+l^4 R-22 l^2 r^2 R+21 r^4 R-28 l^2 r R^2+76 r^3 R^2-4 l^2 R^3+112 r^2 R^3+64 r R^4\right)\right)\Big/\left(\left(l^2-r^2-4rR\right)^2\left(l^2-r^2-6rR-4R^2\right)^2\right)\right)\}$$

$$\{X6,\ \text{SYMMEDIAN POINT},\ X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),$$
$$-\frac{4 r^2 R^2\left(-2 l^4+14 l^2 r^2+19 l^2 r R+r^3 R-l^2 R^2+8 r^2 R^2+16 r R^3\right)}{(2r+R)^2\left(-l^2+r^2+4rR\right)^2}\}$$

$$\{X6,\ \text{SYMMEDIAN POINT},\ X36,\ \text{INVERSE-IN-CIRCUMCIRCLE OF INCENTER},$$
$$\frac{4 r^2 R^2\left(-7 l^2 r+r^3-l^2 R+8 r^2 R+16 r R^2\right)}{(2r-R)\left(-l^2+r^2+4rR\right)^2}\}$$

$$\left\{X6,\ \text{SYMMEDIAN POINT},\ X37,\ \text{CrosspointOfIncenterAndCentroid},\ \frac{16\,l^4\,r^2\,R\,\left(l^2\,r-r^3+l^2\,R-8\,r^2\,R-16\,r\,R^2\right)}{\left(l^2-r^2-4\,r\,R\right)^2\,\left(l^2+r^2+4\,r\,R\right)^2}\right\}$$

$$\left\{X6,\ \text{SYMMEDIAN POINT},\ X38,\ \text{CROSSPOINT OF X(1) AND X(75)},\ \left(4\,r^2\,R\,\left(6\,l^6\,r-14\,l^4\,r^3+10\,l^2\,r^5-2\,r^7+4\,l^6\,R-93\,l^4\,r^2\,R+110\,l^2\,r^4\,R-33\,r^6\,R-88\,l^4\,r\,R^2+412\,l^2\,r^3\,R^2-204\,r^5\,R^2+420\,l^2\,r^2\,R^3-560\,r^4\,R^3-576\,r^3\,R^4\right)\right)\Big/\left(\left(l^2-r^2-4\,r\,R\right)^2\,\left(l^2+r^2-2\,r\,R\right)^2\right)\right\}$$

$$\left\{X6,\ \text{SYMMEDIAN POINT},\ X39,\ \text{BrocardMidpoint},\ \frac{16\,l^4\,r^4\,R^2\,\left(l^4-14\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R+16\,r^2\,R^2\right)}{\left(l^2-r^2-4\,r\,R\right)^2\,\left(l^4+2\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R+16\,r^2\,R^2\right)^2}\right\}$$

$$\left\{X6,\ \text{SYMMEDIAN POINT},\ X40,\ \text{BEVAN POINT},\ -\frac{4\,R\,\left(l^4\,r-l^2\,r^3-l^4\,R+l^2\,r^2\,R-r^4\,R+8\,l^2\,r\,R^2-8\,r^3\,R^2-16\,r^2\,R^3\right)}{\left(l^2-r^2-4\,r\,R\right)^2}\right\}$$

$$\left\{X6,\ \text{SYMMEDIAN POINT},\ X41,\ X(6)\text{-CEVA CONJUGATE OF X(31)},\ -\frac{4\,l^4\,r^2\,R^2\,\left(l^4+14\,l^2\,r^2-3\,r^4-20\,l^2\,r\,R-20\,r^3\,R-4\,l^2\,R^2-16\,r^2\,R^2+64\,r\,R^3\right)}{\left(l^2-r^2-4\,r\,R\right)^2\,\left(3\,l^2\,r-r^3+2\,l^2\,R-8\,r^2\,R-16\,r\,R^2\right)^2}\right\}$$

$$\left\{X6,\ \text{SYMMEDIAN POINT},\ X42,\ \text{CROSSPOINT OF INCENTER AND SYMMEDIAN POINT},\ \frac{4\,r^4\,R^2\,\left(3\,l^4-14\,l^2\,r^2-r^4-28\,l^2\,r\,R-12\,r^3\,R+4\,l^2\,R^2-48\,r^2\,R^2-64\,r\,R^3\right)}{\left(l^2-r^2-4\,r\,R\right)^2\,\left(l^2+r^2-2\,r\,R\right)^2}\right\}$$

$$\left\{X6,\ \text{SYMMEDIAN POINT},\ X43,\ X(6)\text{-CEVA CONJUGATE OF X(1)},\ -\left(\left(4\,r^2\,R\,\left(l^6\,r+l^4\,r^3-l^2\,r^5-r^7-l^6\,R-22\,l^4\,r^2\,R+31\,l^2\,r^4\,R-12\,r^6\,R+16\,l^4\,r\,R^2+32\,l^2\,r^3\,R^2-48\,r^5\,R^2-64\,r^4\,R^3\right)\right)\Big/\left(\left(l^2+r^2-8\,r\,R\right)^2\,\left(l^2-r^2-4\,r\,R\right)^2\right)\right)\right\}$$

$$\left\{X6,\ \text{SYMMEDIAN POINT},\ X44,\ X(6)\text{-LINE CONJUGATE OF X(1)},\ \frac{16\,l^4\,r^2\,R\,\left(l^2\,r-r^3+l^2\,R-8\,r^2\,R-16\,r\,R^2\right)}{\left(l^2-3\,r^2-12\,r\,R\right)^2\,\left(l^2-r^2-4\,r\,R\right)^2}\right\}$$

$$\left\{X6,\ \text{SYMMEDIAN POINT},\ X45,\ X(9)\text{-BETH CONJUGATE OF X(1)},\ \frac{64\,l^4\,r^2\,R\,\left(l^2\,r-r^3+l^2\,R-8\,r^2\,R-16\,r\,R^2\right)}{\left(l^2-r^2-4\,r\,R\right)^2\,\left(l^2+3\,r^2+12\,r\,R\right)^2}\right\}$$

$$\left\{X6,\ \text{SYMMEDIAN POINT},\ X46,\ X(4)\text{-CEVA CONJUGATE OF X(1)},\ -\frac{4\,r^2\,R\,\left(l^4\,r-l^2\,r^3-l^2\,r^2\,R-7\,l^2\,r\,R^2+r^3\,R^2-l^2\,R^3+8\,r^2\,R^3+16\,r\,R^4\right)}{(r-R)^2\,\left(-l^2+r^2+4\,r\,R\right)^2}\right\}$$

$$\left\{X6,\ \text{SYMMEDIAN POINT},\ X47,\ X(110)\text{-BETH CONJUGATE OF X(34)},\ \left(4\,r^2\,R^2\,\left(3\,l^4\,r^2-14\,l^2\,r^4-r^6+2\,l^4\,r\,R-28\,l^2\,r^3\,R-14\,r^5\,R-12\,l^2\,r^2\,R^2-72\,r^4\,R^2+12\,l^2\,r\,R^3-164\,r^3\,R^3+4\,l^2\,R^4-160\,r^2\,R^4-64\,r\,R^5\right)\right)\Big/\left(\left(l^2-r^2-4\,r\,R\right)^2\,\left(l^2-3\,r^2-6\,r\,R-2\,R^2\right)^2\right)\right\}$$

$$\left\{X6,\ \text{SYMMEDIAN POINT},\ X48,\ \text{CROSSPOINT OF X(1) AND X(63)},\ -\frac{4\,l^4\,R^2\,\left(l^4+14\,l^2\,r^2-3\,r^4-20\,l^2\,r\,R-20\,r^3\,R-4\,l^2\,R^2-16\,r^2\,R^2+64\,r\,R^3\right)}{\left(l^2-r^2-4\,r\,R\right)^2\,\left(3\,l^2-r^2-6\,r\,R-8\,R^2\right)^2}\right\}$$

$$\left\{X6,\ \text{SYMMEDIAN POINT},\ X49,\ \text{CENTER OF SINE-TRIPLE-ANGLE CIRCLE},\ -\left(\left(R^2\,\left(l^8+16\,l^6\,r^2-34\,l^4\,r^4+16\,l^2\,r^6+r^8-16\,l^6\,r\,R-112\,l^4\,r^3\,R+112\,l^2\,r^5\,R+16\,r^7\,R-4\,l^6\,R^2-116\,l^4\,r^2\,R^2+340\,l^2\,r^4\,R^2+100\,r^6\,R^2+48\,l^4\,r\,R^3+544\,l^2\,r^3\,R^3+304\,r^5\,R^3-l^4\,R^4+398\,l^2\,r^2\,R^4+447\,r^4\,R^4+8\,l^2\,r\,R^5+248\,r^3\,R^5-16\,r^2\,R^6\right)\right)\Big/\left(\left(l^2-r^2-4\,r\,R\right)^2\,\left(2\,l^2-2\,r^2-8\,r\,R-7\,R^2\right)^2\right)\right)\right\}$$

$$\left\{X6,\ \text{SYMMEDIAN POINT},\ X50,\ X(74)\text{-CEVA CONJUGATE OF } X(184),\ \frac{16\,l^4 r^4 R^2\left(l^4-14\,l^2 r^2+r^4-8\,l^2 r R+8\,r^3 R+16\,r^2 R^2\right)}{\left(l^2-r^2-4\,r R\right)^2\left(l^4-6\,l^2 r^2+r^4-8\,l^2 r R+8\,r^3 R-3\,l^2 R^2+19\,r^2 R^2+12\,r R^3\right)^2}\right\}$$

$$\left\{X6,\ \text{SYMMEDIAN POINT},\ X51,\ \text{CENTROID OF ORTHIC TRIANGLE},\ -\frac{1}{36\,R^2\left(-l^2+r^2+4\,r R\right)^2}\left(l^8+16\,l^6 r^2-34\,l^4 r^4+16\,l^2 r^6+r^8-16\,l^6 r R-112\,l^4 r^3 R+112\,l^2 r^5 R+16\,r^7 R-4\,l^6 R^2-84\,l^4 r^2 R^2+308\,l^2 r^4 R^2+100\,r^6 R^2+48\,l^4 r R^3+416\,l^2 r^3 R^3+304\,r^5 R^3+240\,l^2 r^2 R^4+448\,r^4 R^4+256\,r^3 R^5\right)\right\}$$

$$\left\{X6,\ \text{SYMMEDIAN POINT},\ X52,\ \text{ORTHOCENTER OF ORTHIC TRIANGLE},\ \frac{\left(-l^2+r^2+4\,r R+2\,R^2\right)^2\left(l^4-14\,l^2 r^2+r^4-8\,l^2 r R+8\,r^3 R+16\,r^2 R^2\right)}{4\,R^2\left(-l^2+r^2+4\,r R\right)^2}\right\}$$

$$\left\{X6,\ \text{SYMMEDIAN POINT},\ X53,\ \text{SYMMEDIAN POINT OF ORTHIC TRIANGLE},\ -\left(\left(16\,l^4 r^4\left(l^6-7\,l^4 r^2+7\,l^2 r^4-r^6-12\,l^4 r R+40\,l^2 r^3 R-12\,r^5 R-4\,l^4 R^2+68\,l^2 r^2 R^2-52\,r^4 R^2+32\,l^2 r R^3-96\,r^3 R^3-64\,r^2 R^4\right)\right)\Big/\left(\left(l^2-r^2-4\,r R\right)^2\left(l^4-6\,l^2 r^2+r^4-8\,l^2 r R+8\,r^3 R-4\,l^2 R^2+20\,r^2 R^2+16\,r R^3\right)^2\right)\right)\right\}$$

$$\left\{X6,\ \text{SYMMEDIAN POINT},\ X54,\ \text{KosnitaPoint},\ -\left(\left(R^2\left(16\,l^6 r^2-32\,l^4 r^4+16\,l^2 r^6-128\,l^4 r^3 R+128\,l^2 r^5 R+l^6 R^2-143\,l^4 r^2 R^2+399\,l^2 r^4 R^2-r^6 R^2-12\,l^4 r R^3+584\,l^2 r^3 R^3-12\,r^5 R^3-4\,l^4 R^4+356\,l^2 r^2 R^4-52\,r^4 R^4+32\,l^2 r R^5-96\,r^3 R^5-64\,r^2 R^6\right)\right)\Big/\left(\left(l^2-r^2-4\,r R\right)^2\left(2\,l^2-2\,r^2-8\,r R-5\,R^2\right)^2\right)\right)\right\}$$

$$\left\{X6,\ \text{SYMMEDIAN POINT},\ X55,\ \text{INSIMILICENTER(CIRCUMCIRCLE, INCIRCLE)},\ -\frac{r^2 R^2\left(-3\,l^4+14\,l^2 r^2+r^4+28\,l^2 r R+12\,r^3 R-4\,l^2 R^2+48\,r^2 R^2+64\,r R^3\right)}{(r+R)^2\left(-l^2+r^2+4\,r R\right)^2}\right\}$$

$$\left\{X6,\ \text{SYMMEDIAN POINT},\ X56,\ \text{EXSIMILICENTER(CIRCUMCIRCLE, INCIRCLE)},\ \frac{r^2 R^2\left(-l^4-14\,l^2 r^2+3\,r^4+20\,l^2 r R+20\,r^3 R+4\,l^2 R^2+16\,r^2 R^2-64\,r R^3\right)}{(r-R)^2\left(-l^2+r^2+4\,r R\right)^2}\right\}$$

$$\left\{X6,\ \text{SYMMEDIAN POINT},\ X57,\ \text{ISOGONAL CONJUGATE OF } X(9),\ -\frac{4\,r^2 R\left(l^4 r-l^2 r^3+l^4 R-3\,l^2 r^2 R+r^4 R-24\,l^2 r R^2+12\,r^3 R^2-4\,l^2 R^3+48\,r^2 R^3+64\,r R^4\right)}{(r-2\,R)^2\left(-l^2+r^2+4\,r R\right)^2}\right\}$$

$$\left\{X6,\ \text{SYMMEDIAN POINT},\ X58,\ \text{ISOGONAL CONJUGATE OF } X(10),\ \frac{4\,r^4 R^2\left(l^4-14\,l^2 r^2+r^4-8\,l^2 r R+8\,r^3 R+16\,r^2 R^2\right)}{\left(l^2-3\,r^2-4\,r R\right)^2\left(l^2-r^2-4\,r R\right)^2}\right\}$$

$$\left\{X6,\ \text{SYMMEDIAN POINT},\ X59,\ \text{ISOGONAL CONJUGATE OF } X(11),\ \left(r^2 R^2\left(-8\,l^6 r+16\,l^4 r^3-8\,l^2 r^5-5\,l^6 R+103\,l^4 r^2 R-99\,l^2 r^4 R+r^6 R+164\,l^4 r R^2-448\,l^2 r^3 R^2+20\,r^5 R^2+32\,l^4 R^3-884\,l^2 r^2 R^3+160\,r^4 R^3-672\,l^2 r R^4+640\,r^3 R^4-64\,l^2 R^5+1280\,r^2 R^5+1024\,r R^6\right)\right)\Big/\left((2\,r-R)\left(-l^2+r^2+4\,r R\right)^2\left(-l^2+r^2+5\,r R+4\,R^2\right)^2\right)\right\}$$

$$\left\{X6,\ \text{SYMMEDIAN POINT},\ X60,\ \text{ISOGONAL CONJUGATE OF } X(12),\ -\left(\left(r^2 R^2\left(16\,l^6 r^2-32\,l^4 r^4+16\,l^2 r^6-2\,l^6 r R-66\,l^4 r^3 R+66\,l^2 r^5 R+2\,r^7 R-l^6 R^2-61\,l^4 r^2 R^2+121\,l^2 r^4 R^2+21\,r^6 R^2+12\,l^4 r R^3+104\,l^2 r^3 R^3+76\,r^5 R^3+60\,l^2 r^2 R^4+112\,r^4 R^4+64\,r^3 R^5\right)\right)\Big/\left(\left(l^2-r^2-4\,r R\right)^2\left(2\,l^2 r-2\,r^3+l^2 R-7\,r^2 R-7\,r R^2\right)^2\right)\right)\right\}$$

$$\left\{X6,\ \text{SYMMEDIAN POINT},\ X61,\ \text{ISOGONAL CONJUGATE OF } X(17),\ \frac{12\,l^2 r^2 R^2\left(l^2-2\sqrt{3}\,l\,r-r^2-4\,r R\right)\left(l^2+2\sqrt{3}\,l\,r-r^2-4\,r R\right)}{\left(3\,l^2+2\sqrt{3}\,l\,r-3\,r^2-12\,r R\right)^2\left(l^2-r^2-4\,r R\right)^2}\right\}$$

$$\left\{X6,\ \text{SYMMEDIAN POINT},\ X62,\ \text{ISOGONAL CONJUGATE OF } X(18),\ \frac{12\,l^2 r^2 R^2 \left(l^2-2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)\left(l^2+2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)}{\left(3\,l^2-2\sqrt{3}\,l\,r-3\,r^2-12\,r\,R\right)^2\left(l^2-r^2-4\,r\,R\right)^2}\right\}$$

$$\left\{X6,\ \text{SYMMEDIAN POINT},\ X63,\ \text{ISOGONAL CONJUGATE OF } X(19),\ -\left(\left(R\left(-2\,l^6 r+4\,l^4 r^3-2\,l^2 r^5-l^6 R+27\,l^4 r^2 R-15\,l^2 r^4 R+r^6 R+20\,l^4 r R^2-72\,l^2 r^3 R^2+12\,r^5 R^2-68\,l^2 r^2 R^3+48\,r^4 R^3+64\,r^3 R^4\right)\right)\Big/\left((r+R)^2\left(-l^2+r^2+4\,r\,R\right)^2\right)\right)\right\}$$

$$\left\{X6,\ \text{SYMMEDIAN POINT},\ X64,\ \text{ISOGONAL CONJUGATE OF } X(20),\ \left(4\,R^2\left(3\,l^8-16\,l^6 r^2+26\,l^4 r^4-16\,l^2 r^6+3\,r^8-48\,l^6 r\,R+176\,l^4 r^3 R-176\,l^2 r^5 R+48\,r^7 R-28\,l^6 R^2+404\,l^4 r^2 R^2-756\,l^2 r^4 R^2+316\,r^6 R^2+336\,l^4 r R^3-1568\,l^2 r^3 R^3+1104\,r^5 R^3+64\,l^4 R^4-1520\,l^2 r^2 R^4+2176\,r^4 R^4-512\,l^2 r R^5+2304\,r^3 R^5+1024\,r^2 R^6\right)\right)\Big/\left((1-r-2\,R)^2(1+r+2\,R)^2\left(l^2-r^2-4\,r\,R\right)^2\right)\right\}$$

$$\left\{X6,\ \text{SYMMEDIAN POINT},\ X65,\ \text{ORTHOCENTER OF THE INTOUCH TRIANGLE},\ -\frac{r^2\left(2\,l^4 r-4\,l^2 r^3+2\,r^5+l^4 R-22\,l^2 r^2 R+21\,r^4 R-28\,l^2 r R^2+76\,r^3 R^2-4\,l^2 R^3+112\,r^2 R^3+64\,r R^4\right)}{R\left(-l^2+r^2+4\,r\,R\right)^2}\right\}$$

$$\left\{X6,\ \text{SYMMEDIAN POINT},\ X66,\ \text{ISOGONAL CONJUGATE OF } X(22),\ \frac{1}{(1-r-2\,R)^2(1+r+2\,R)^2\left(l^2-r^2-4\,r\,R\right)^2}\left(8\,l^8 r^2-24\,l^6 r^4+24\,l^4 r^6-8\,l^2 r^8-96\,l^6 r^3 R+192\,l^4 r^5 R-96\,l^2 r^7 R-l^8 R^2-84\,l^6 r^2 R^2+554\,l^4 r^4 R^2-468\,l^2 r^6 R^2-r^8 R^2+16\,l^6 r R^3+656\,l^4 r^3 R^3-1168\,l^2 r^5 R^3-16\,r^7 R^3+4\,l^6 R^4+228\,l^4 r^2 R^4-1540\,l^2 r^4 R^4-100\,r^6 R^4-48\,l^4 r R^5-992\,l^2 r^3 R^5-304\,r^5 R^5-240\,l^2 r^2 R^6-448\,r^4 R^6-256\,r^3 R^7\right)\right\}$$

$$\left\{X6,\ \text{SYMMEDIAN POINT},\ X67,\ \text{ISOGONAL CONJUGATE OF } X(23),\ \left(l^8+16\,l^6 r^2-34\,l^4 r^4+16\,l^2 r^6+r^8-16\,l^6 r\,R-112\,l^4 r^3 R+112\,l^2 r^5 R+16\,r^7 R-4\,l^6 R^2-84\,l^4 r^2 R^2+308\,l^2 r^4 R^2+100\,r^6 R^2+48\,l^4 r R^3+416\,l^2 r^3 R^3+304\,r^5 R^3+240\,l^2 r^2 R^4+448\,r^4 R^4+256\,r^3 R^5\right)\Big/\left(\left(l^2-r^2-4\,r\,R\right)^2\left(2\,l^2-2\,r^2-8\,r\,R-9\,R^2\right)\right)\right\}$$

$$\left\{X6,\ \text{SYMMEDIAN POINT},\ X68,\ \text{PRASOLOV POINT},\ \frac{\left(l^2-r^2-4\,r\,R-2\,R^2\right)^2\left(8\,l^4 r^2-8\,l^2 r^4-32\,l^2 r^3 R+l^4 R^2-50\,l^2 r^2 R^2+r^4 R^2-8\,l^2 r R^3+8\,r^3 R^3+16\,r^2 R^4\right)}{(1-r-2\,R)^2(1+r+2\,R)^2\left(l^2-r^2-4\,r\,R\right)^2}\right\}$$

$$\left\{X6,\ \text{SYMMEDIAN POINT},\ X69,\ \text{SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},\ \frac{l^6+9\,l^4 r^2-9\,l^2 r^4-r^6-12\,l^4 r\,R-24\,l^2 r^3 R-12\,r^5 R-60\,l^2 r^2 R^2-48\,r^4 R^2-64\,r^3 R^3}{\left(l^2-r^2-4\,r\,R\right)^2}\right\}$$

$$\left\{X6,\ \text{SYMMEDIAN POINT},\ X70,\ \text{ISOGONAL CONJUGATE OF } X(26),\ \left(\left(l^2-r^2-4\,r\,R-R^2\right)^2\left(8\,l^8 r^2-24\,l^6 r^4+24\,l^4 r^6-8\,l^2 r^8-96\,l^6 r^3 R+192\,l^4 r^5 R-96\,l^2 r^7 R-100\,l^6 r^2 R^2+584\,l^4 r^4 R^2-484\,l^2 r^6 R^2+800\,l^4 r^3 R^3-1312\,l^2 r^5 R^3-l^6 R^4+423\,l^4 r^2 R^4-2023\,l^2 r^4 R^4+r^6 R^4+12\,l^4 r R^5-1704\,l^2 r^3 R^5+12\,r^5 R^5+4\,l^4 R^6-644\,l^2 r^2 R^6+52\,r^4 R^6-32\,l^2 r R^7+96\,r^3 R^7+64\,r^2 R^8\right)\right)\Big/\left(\left(l^2-r^2-4\,r\,R\right)^2\left(l^4-2\,l^2 r^2+r^4-8\,l^2 r\,R+8\,r^3 R-6\,l^2 R^2+22\,r^2 R^2+24\,r R^3+7\,R^4\right)^2\right)\right\}$$

$$\left\{X6,\ \text{SYMMEDIAN POINT},\ X71,\ \text{ISOGONAL CONJUGATE OF } X(27),\ \frac{4\,l^4 R^2\left(3\,l^4-14\,l^2 r^2-r^4-28\,l^2 r\,R-12\,r^3 R+4\,l^2 R^2-48\,r^2 R^2-64\,r R^3\right)}{\left(l^2-r^2-4\,r\,R\right)^2\left(l^2+r^2+6\,r\,R+8\,R^2\right)^2}\right\}$$

$$\left\{X6,\ \text{SYMMEDIAN POINT},\ X72,\ \text{ISOGONAL CONJUGATE OF } X(28),\ -\frac{\left(-l^2+r^2+2\,r\,R\right)^2\left(-l^2 r+r^3-l^2 R+8\,r^2 R+16\,r R^2\right)}{R\left(-l^2+r^2+4\,r\,R\right)^2}\right\}$$

$$\left\{X6,\ \text{SYMMEDIAN POINT},\ X73,\ \text{CROSSPOINT OF INCENTER AND CIRCUMCENTER},\ -\frac{4 r^2 R^2 (r+2R)^2 \left(l^4+14 l^2 r^2-3 r^4-20 l^2 r R-20 r^3 R-4 l^2 R^2-16 r^2 R^2+64 r R^3\right)}{\left(l^2-r^2-4 r R\right)^2 \left(l^2+r^2-2 r R-4 R^2\right)^2}\right\}$$

$$\left\{X6,\ \text{SYMMEDIAN POINT},\ X74,\ \text{ISOGONAL CONJUGATE OF EULER INFINITY POINT},\ \left(9 R^2 \left(l^6-7 l^4 r^2+7 l^2 r^4-r^6-12 l^4 r R+40 l^2 r^3 R-12 r^5 R-4 l^4 R^2+68 l^2 r^2 R^2-52 r^4 R^2+32 l^2 r R^3-96 r^3 R^3-64 r^2 R^4\right)\right) \Big/ \left(\left(l^2-r^2-4 r R\right)^2 \left(2 l^2-2 r^2-8 r R-9 R^2\right)\right)\right\}$$

$$\left\{X6,\ \text{SYMMEDIAN POINT},\ X75,\ \text{ISOTOMIC CONJUGATE OF INCENTER},\ \left(l^{10}+3 l^8 r^2+2 l^6 r^4-2 l^4 r^6-3 l^2 r^8-r^{10}-20 l^8 r R+32 l^6 r^3 R-56 l^4 r^5 R-20 r^9 R+84 l^6 r^2 R^2-280 l^4 r^4 R^2+180 l^2 r^6 R^2-160 r^8 R^2-352 l^4 r^3 R^3+672 l^2 r^5 R^3-640 r^7 R^3+576 l^2 r^4 R^4-1280 r^6 R^4-1024 r^5 R^5\right) \Big/ \left(\left(l^2-r^2-4 r R\right)^2 \left(l^2+r^2+4 r R\right)^2\right)\right\}$$

$$\left\{X6,\ \text{SYMMEDIAN POINT},\ X76,\ \text{3rd BROCARD POINT},\ \frac{1}{\left(l^2-r^2-4 r R\right)^2 \left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)^2} \left(l^{14}+5 l^{12} r^2+9 l^{10} r^4+5 l^8 r^6-5 l^6 r^8-9 l^4 r^{10}-5 l^2 r^{12}-r^{14}-28 l^{12} r R-72 l^{10} r^3 R-36 l^8 r^5 R+16 l^6 r^7 R-36 l^4 r^9 R-72 l^2 r^{11} R-28 r^{13} R+228 l^{10} r^2 R^2+448 l^8 r^4 R^2-488 l^6 r^6 R^2+304 l^4 r^8 R^2-348 l^2 r^{10} R^2-336 r^{12} R^2-512 l^8 r^3 R^3-2112 l^6 r^5 R^3+2240 l^4 r^7 R^3-448 l^2 r^9 R^3-2240 r^{11} R^3-1408 l^6 r^4 R^4+5632 l^4 r^6 R^4+1152 l^2 r^8 R^4-8960 r^{10} R^4+6144 l^4 r^5 R^5+3072 l^2 r^7 R^5-21504 r^9 R^5+1024 l^2 r^6 R^6-28672 r^8 R^6-16384 r^7 R^7\right)\right\}$$

$$\left\{X6,\ \text{SYMMEDIAN POINT},\ X77,\ \text{ISOGONAL CONJUGATE OF X(33)},\ \left(r^2 R \left(2 l^6 r-4 l^4 r^3+2 l^2 r^5+5 l^6 R-43 l^4 r^2 R+27 l^2 r^4 R-r^6 R-116 l^4 r R^2+160 l^2 r^3 R^2-20 r^5 R^2-32 l^4 R^3+500 l^2 r^2 R^3-160 r^4 R^3+672 l^2 r R^4-640 r^3 R^4+64 l^2 R^5-1280 r^2 R^5-1024 r R^6\right)\right) \Big/ \left(\left(l^2-r^2-4 r R\right)^2 \left(l^2-r R-4 R^2\right)^2\right)\right\}$$

$$\left\{X6,\ \text{SYMMEDIAN POINT},\ X78,\ \text{ISOGONAL CONJUGATE OF X(34)},\ -\left(\left(R \left(2 l^4 r^3-4 l^2 r^5+2 r^7-l^6 R-l^4 r^2 R-7 l^2 r^4 R+21 r^6 R+20 l^4 r R^2-56 l^2 r^3 R^2+76 r^5 R^2-68 l^2 r^2 R^3+112 r^4 R^3+64 r^3 R^4\right)\right) \Big/ \left((r-R)^2 \left(-l^2+r^2+4 r R\right)^2\right)\right)\right\}$$

$$\left\{X6,\ \text{SYMMEDIAN POINT},\ X79,\ \text{ISOGONAL CONJUGATE OF X(35)},\ -\left(\left(4 r^2 \left(2 l^6-8 l^4 r^2+6 l^2 r^4-25 l^4 r R+40 l^2 r^3 R+r^5 R-6 l^4 R^2+76 l^2 r^2 R^2+14 r^4 R^2+27 l^2 r R^3+73 r^3 R^3-9 l^2 R^4+168 r^2 R^4+144 r R^5\right)\right) \Big/ \left((2 r+3 R)^2 \left(-l^2+r^2+4 r R\right)^2\right)\right)\right\}$$

$$\left\{X6,\ \text{SYMMEDIAN POINT},\ X80,\ \text{REFLECTION OF INCENTER IN FEUERBACH POINT},\ \frac{4 r^2 \left(3 l^4 r-4 l^2 r^3+r^5-18 l^2 r^2 R+10 r^4 R-15 l^2 r R^2+33 r^3 R^2-l^2 R^3+40 r^2 R^3+16 r R^4\right)}{(2 r-R) \left(-l^2+r^2+4 r R\right)^2}\right\}$$

$$\left\{X6,\ \text{SYMMEDIAN POINT},\ X81,\ \text{CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},\ \frac{r^2 R^2 \left(l^6+9 l^4 r^2-9 l^2 r^4-r^6-12 l^4 r R-24 l^2 r^3 R-12 r^5 R-60 l^2 r^2 R^2-48 r^4 R^2-64 r^3 R^3\right)}{\left(l^2-r^2-4 r R\right)^2 \left(l^2-r^2-r R\right)^2}\right\}$$

$$\left\{X6,\ \text{SYMMEDIAN POINT},\ X82,\ \text{ISOGONAL CONJUGATE OF X(38)},\ -\left(\left(r^2 R \left(2 l^{10} r+2 l^8 r^3-4 l^6 r^5-4 l^4 r^7+2 l^2 r^9+2 r^{11}-l^{10} R-51 l^8 r^2 R+94 l^6 r^4 R-126 l^4 r^6 R+35 l^2 r^8 R+49 r^{10} R+28 l^8 r R^2+296 l^6 r^3 R^2-624 l^4 r^5 R^2+120 l^2 r^7 R^2+500 r^9 R^2-276 l^6 r^2 R^3-328 l^4 r^4 R^3-532 l^2 r^6 R^3+2720 r^8 R^3+1632 l^4 r^3 R^4-3616 l^2 r^5 R^4+8320 r^7 R^4-5184 l^2 r^4 R^5+13568 r^6 R^5+9216 r^5 R^6\right)\right) \Big/ \left(\left(l^2-r^2-4 r R\right)^2 \left(l^4-4 l^2 r^2+3 r^4-9 l^2 r R+19 r^3 R+28 r^2 R^2\right)^2\right)\right)\right\}$$

$$\{X6,\ \text{SYMMEDIAN POINT},\ X83,\ \text{CEVAPOINT OF CENTROID AND SYMMEDIAN POINT},$$
$$\big(l^{14}+5\,l^{12}\,r^2+9\,l^{10}\,r^4+5\,l^8\,r^6-5\,l^6\,r^8-9\,l^4\,r^{10}-5\,l^2\,r^{12}-r^{14}-28\,l^{12}\,r\,R-72\,l^{10}\,r^3\,R-36\,l^8\,r^5\,R+$$
$$16\,l^6\,r^7\,R-36\,l^4\,r^9\,R-72\,l^2\,r^{11}\,R-28\,r^{13}\,R+228\,l^{10}\,r^2\,R^2+448\,l^8\,r^4\,R^2-488\,l^6\,r^6\,R^2+$$
$$304\,l^4\,r^8\,R^2-348\,l^2\,r^{10}\,R^2-336\,r^{12}\,R^2-512\,l^8\,r^3\,R^3-2112\,l^6\,r^5\,R^3+2240\,l^4\,r^7\,R^3-$$
$$448\,l^2\,r^9\,R^3-2240\,r^{11}\,R^3-1408\,l^6\,r^4\,R^4+5632\,l^4\,r^6\,R^4+1152\,l^2\,r^8\,R^4-8960\,r^{10}\,R^4+$$
$$6144\,l^4\,r^5\,R^5+3072\,l^2\,r^7\,R^5-21\,504\,r^9\,R^5+1024\,l^2\,r^6\,R^6-28\,672\,r^8\,R^6-16\,384\,r^7\,R^7\big)\Big/$$
$$\big((l^2-r^2-4\,r\,R)^2\,(5\,l^4-6\,l^2\,r^2+5\,r^4-40\,l^2\,r\,R+40\,r^3\,R+80\,r^2\,R^2)^2\big)\}$$

$$\{X6,\ \text{SYMMEDIAN POINT},\ X84,\ \text{ISOGONAL CONJUGATE OF } X(40),$$
$$\frac{1}{r^2\,(-l^2+r^2+4\,r\,R)^2}4\,R\,\big(l^6\,r-l^4\,r^3-l^6\,R-8\,l^4\,r^2\,R+2\,l^2\,r^4\,R+8\,l^4\,r\,R^2+$$
$$16\,l^2\,r^3\,R^2+4\,l^4\,R^3-24\,l^2\,r^2\,R^3+4\,r^4\,R^3-32\,l^2\,r\,R^4+32\,r^3\,R^4+64\,r^2\,R^5\big)\}$$

$$\{X6,\ \text{SYMMEDIAN POINT},\ X85,\ \text{ISOTOMIC CONJUGATE OF } X(9),$$
$$\frac{1}{(l^2-r^2-4\,r\,R)^2\,(l^2+r^2+8\,r\,R+16\,R^2)^2}\big(l^{10}+3\,l^8\,r^2+2\,l^6\,r^4-2\,l^4\,r^6-3\,l^2\,r^8-r^{10}-$$
$$28\,l^8\,r\,R+64\,l^6\,r^3\,R-40\,l^4\,r^5\,R-32\,l^2\,r^7\,R-28\,r^9\,R+228\,l^6\,r^2\,R^2-296\,l^4\,r^4\,R^2-28\,l^2\,r^6\,R^2-$$
$$336\,r^8\,R^2+64\,l^6\,r\,R^3-960\,l^4\,r^3\,R^3+832\,l^2\,r^5\,R^3-2240\,r^7\,R^3-1152\,l^4\,r^2\,R^4+3712\,l^2\,r^4\,R^4-$$
$$8960\,r^6\,R^4+5120\,l^2\,r^3\,R^5-21\,504\,r^5\,R^5+1024\,l^2\,r^2\,R^6-28\,672\,r^4\,R^6-16\,384\,r^3\,R^7\big)\}$$

$$\{X6,\ \text{SYMMEDIAN POINT},\ X86,\ \text{CEVAPOINT OF INCENTER AND CENTROID},$$
$$\frac{(l^2+r^2+4\,r\,R)^2\,(l^6+9\,l^4\,r^2-9\,l^2\,r^4-r^6-12\,l^4\,r\,R-24\,l^2\,r^3\,R-12\,r^5\,R-60\,l^2\,r^2\,R^2-48\,r^4\,R^2-64\,r^3\,R^3)}{(l^2-r^2-4\,r\,R)^2\,(5\,l^2+r^2+4\,r\,R)^2}\}$$

$$\{X6,\ \text{SYMMEDIAN POINT},\ X87,\ X(2)\text{-CROSS CONJUGATE OF } X(1),$$
$$-\big((4\,r^2\,R\,(l^2+r^2+4\,r\,R)^2\,(l^6\,r+l^4\,r^3-l^2\,r^5-r^7-l^6\,R-$$
$$22\,l^4\,r^2\,R+31\,l^2\,r^4\,R-12\,r^6\,R+16\,l^4\,r\,R^2+32\,l^2\,r^3\,R^2-48\,r^5\,R^2-64\,r^4\,R^3)\big)\Big/$$
$$\big((l^2-r^2-4\,r\,R)^2\,(l^4+2\,l^2\,r^2+r^4-20\,l^2\,r\,R+12\,r^3\,R+32\,r^2\,R^2)^2\big)\big)\}$$

$$\{X6,\ \text{SYMMEDIAN POINT},\ X88,\ \text{ISOGONAL CONJUGATE OF } X(44),$$
$$-\big((r^2\,R\,(8\,l^6\,r+64\,l^4\,r^3-72\,l^2\,r^5-l^6\,R-73\,l^4\,r^2\,R-135\,l^2\,r^4\,R+81\,r^6\,R-20\,l^4\,r\,R^2-1512\,l^2\,r^3\,R^2+$$
$$972\,r^5\,R^2+252\,l^2\,r^2\,R^3+3888\,r^4\,R^3+5184\,r^3\,R^4)\big)\Big/\big((l^2+3\,r^2-15\,r\,R)^2\,(l^2-r^2-4\,r\,R)^2\big)\big)\}$$

$$\{X6,\ \text{SYMMEDIAN POINT},\ X89,\ \text{ISOGONAL CONJUGATE OF } X(45),$$
$$-\big((r^2\,R\,(8\,l^6\,r+64\,l^4\,r^3-72\,l^2\,r^5-l^6\,R-73\,l^4\,r^2\,R-135\,l^2\,r^4\,R+81\,r^6\,R-20\,l^4\,r\,R^2-1512\,l^2\,r^3\,R^2+$$
$$972\,r^5\,R^2+252\,l^2\,r^2\,R^3+3888\,r^4\,R^3+5184\,r^3\,R^4)\big)\Big/\big((l^2-r^2-4\,r\,R)^2\,(2\,l^2-6\,r^2+3\,r\,R)^2\big)\big)\}$$

$$\{X6,\ \text{SYMMEDIAN POINT},\ X90,\ X(3)\text{-CROSS CONJUGATE OF } X(1),$$
$$\big(4\,r^2\,R\,(l^6\,r-l^4\,r^3-8\,l^4\,r^2\,R+l^2\,r^4\,R-6\,l^4\,r\,R^2+10\,l^2\,r^3\,R^2+18\,l^2\,r^2\,R^3+$$
$$13\,l^2\,r\,R^4-r^3\,R^4+l^2\,R^5-8\,r^2\,R^5-16\,r\,R^6)\big)\Big/\big((l^2-r^2-4\,r\,R)^2\,(r^2+2\,r\,R-R^2)^2\big)\}$$

$$\{X6,\ \text{SYMMEDIAN POINT},\ X91,\ \text{ISOGONAL CONJUGATE OF } X(47),$$
$$\frac{1}{(l^2-r^2-4\,r\,R)^2\,(l^2\,r+r^3-l^2\,R+3\,r^2\,R+2\,r\,R^2+2\,R^3)^2}$$
$$r^2\,\big(l^{10}+3\,l^8\,r^2+2\,l^6\,r^4-2\,l^4\,r^6-3\,l^2\,r^8-r^{10}-26\,l^8\,r\,R+28\,l^6\,r^3\,R-48\,l^4\,r^5\,R+4\,l^2\,r^7\,R-22\,r^9\,R-$$
$$8\,l^8\,R^2+168\,l^6\,r^2\,R^2-324\,l^4\,r^4\,R^2+256\,l^2\,r^6\,R^2-204\,r^8\,R^2+196\,l^6\,r\,R^3-932\,l^4\,r^3\,R^3+1356\,l^2\,r^5\,R^3-$$
$$1036\,r^7\,R^3+24\,l^6\,R^4-1156\,l^4\,r^2\,R^4+3168\,l^2\,r^4\,R^4-3140\,r^6\,R^4-536\,l^4\,r\,R^5+3936\,l^2\,r^3\,R^5-5832\,r^5\,R^5-$$
$$32\,l^4\,R^6+2480\,l^2\,r^2\,R^6-6624\,r^4\,R^6+624\,l^2\,r\,R^7-4496\,r^3\,R^7+16\,l^2\,R^8-1664\,r^2\,R^8-256\,r\,R^9\big)\}$$

$$\Big\{X6,\ \text{SYMMEDIAN POINT},\ X92,\ \text{CEVAPOINT OF INCENTER AND CLAWSON POINT},\ \frac{1}{\left(l^2-r^2-4\,r\,R\right)^2\left(l^2+r^2-4\,R^2\right)^2}$$
$$\left(l^{10}+3\,l^8\,r^2+2\,l^6\,r^4-2\,l^4\,r^6-3\,l^2\,r^8-r^{10}-28\,l^8\,r\,R+24\,l^6\,r^3\,R-48\,l^4\,r^5\,R+8\,l^2\,r^7\,R-20\,r^9\,R-8\,l^8\,R^2+196\,l^6\,r^2\,R^2-328\,l^4\,r^4\,R^2+260\,l^2\,r^6\,R^2-168\,r^8\,R^2+192\,l^6\,r\,R^3-960\,l^4\,r^3\,R^3+1280\,l^2\,r^5\,R^3-768\,r^7\,R^3+16\,l^6\,R^4-1040\,l^4\,r^2\,R^4+2768\,l^2\,r^4\,R^4-2064\,r^6\,R^4-320\,l^4\,r\,R^5+2816\,l^2\,r^3\,R^5-3264\,r^5\,R^5+1088\,l^2\,r^2\,R^6-2816\,r^4\,R^6-1024\,r^3\,R^7\right)\Big\}$$

$$\Big\{X6,\ \text{SYMMEDIAN POINT},\ X93,\ \text{ISOGONAL CONJUGATE OF } X(49),$$
$$\left(l^{14}+5\,l^{12}\,r^2+9\,l^{10}\,r^4+5\,l^8\,r^6-5\,l^6\,r^8-9\,l^4\,r^{10}-5\,l^2\,r^{12}-r^{14}-28\,l^{12}\,r\,R-72\,l^{10}\,r^3\,R-36\,l^8\,r^5\,R+16\,l^6\,r^7\,R-36\,l^4\,r^9\,R-72\,l^2\,r^{11}\,R-28\,r^{13}\,R-10\,l^{12}\,R^2+160\,l^{10}\,r^2\,R^2+458\,l^8\,r^4\,R^2-352\,l^6\,r^6\,R^2+314\,l^4\,r^8\,R^2-416\,l^2\,r^{10}\,R^2-346\,r^{12}\,R^2+240\,l^{10}\,r\,R^3+336\,l^8\,r^3\,R^3-3040\,l^6\,r^5\,R^3+3168\,l^4\,r^7\,R^3-1296\,l^2\,r^9\,R^3-2480\,r^{11}\,R^3+32\,l^{10}\,R^4-952\,l^8\,r^2\,R^4-6776\,l^6\,r^4\,R^4+12\,856\,l^4\,r^6\,R^4-2984\,l^2\,r^8\,R^4-11\,392\,r^{10}\,R^4-640\,l^8\,r\,R^5-3936\,l^6\,r^3\,R^5+27\,968\,l^4\,r^5\,R^5-8032\,l^2\,r^7\,R^5-34\,944\,r^9\,R^5-34\,l^8\,R^6+648\,l^6\,r^2\,R^6+31\,188\,l^4\,r^4\,R^6-21\,240\,l^2\,r^6\,R^6-72\,226\,r^8\,R^6+544\,l^6\,r\,R^7+14\,752\,l^4\,r^3\,R^7-35\,744\,l^2\,r^5\,R^7-98\,848\,r^7\,R^7+7\,l^6\,R^8+1967\,l^4\,r^2\,R^8-31\,471\,l^2\,r^4\,R^8-85\,191\,r^6\,R^8-84\,l^4\,r\,R^9-12\,136\,l^2\,r^3\,R^9-41\,556\,r^5\,R^9+4\,l^4\,R^{10}-1700\,l^2\,r^2\,R^{10}-9036\,r^4\,R^{10}-32\,l^2\,r\,R^{11}-416\,r^3\,R^{11}+64\,r^2\,R^{12}\right)\Big/$$
$$\left(\left(l^2-r^2-4\,r\,R\right)^2\left(l^4+2\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-8\,l^2\,R^2+24\,r^2\,R^2+32\,r\,R^3+13\,R^4\right)^2\right)\Big\}$$

$$\Big\{X6,\ \text{SYMMEDIAN POINT},\ X94,\ \text{ISOGONAL CONJUGATE OF } X(50),$$
$$\left(l^{14}+5\,l^{12}\,r^2+9\,l^{10}\,r^4+5\,l^8\,r^6-5\,l^6\,r^8-9\,l^4\,r^{10}-5\,l^2\,r^{12}-r^{14}-28\,l^{12}\,r\,R-72\,l^{10}\,r^3\,R-36\,l^8\,r^5\,R+16\,l^6\,r^7\,R-36\,l^4\,r^9\,R-72\,l^2\,r^{11}\,R-28\,r^{13}\,R-12\,l^{12}\,R^2+156\,l^{10}\,r^2\,R^2+460\,l^8\,r^4\,R^2-344\,l^6\,r^6\,R^2+316\,l^4\,r^8\,R^2-420\,l^2\,r^{10}\,R^2-348\,r^{12}\,R^2+288\,l^{10}\,r\,R^3+352\,l^8\,r^3\,R^3-3072\,l^6\,r^5\,R^3+3200\,l^4\,r^7\,R^3-1312\,l^2\,r^9\,R^3-2528\,r^{11}\,R^3+54\,l^{10}\,R^4-1206\,l^8\,r^2\,R^4-6700\,l^6\,r^4\,R^4+12\,844\,l^4\,r^6\,R^4-2826\,l^2\,r^8\,R^4-11\,894\,r^{10}\,R^4-1080\,l^8\,r\,R^5-3648\,l^6\,r^3\,R^5+27\,888\,l^4\,r^5\,R^5-6720\,l^2\,r^7\,R^5-37\,944\,r^9\,R^5-108\,l^8\,R^6+1944\,l^6\,r^2\,R^6+32\,328\,l^4\,r^4\,R^6-17\,768\,l^2\,r^6\,R^6-83\,500\,r^8\,R^6+1728\,l^6\,r\,R^7+17\,280\,l^4\,r^3\,R^7-33\,408\,l^2\,r^5\,R^7-126\,400\,r^7\,R^7+81\,l^6\,R^8+2025\,l^4\,r^2\,R^8-36\,585\,l^2\,r^4\,R^8-128\,721\,r^6\,R^8-972\,l^4\,r\,R^9-20\,952\,l^2\,r^3\,R^9-83\,916\,r^5\,R^9-4860\,l^2\,r^2\,R^{10}-31\,536\,r^4\,R^{10}-5184\,r^3\,R^{11}\right)\Big/$$
$$\left(\left(l^2-r^2-4\,r\,R\right)^2\left(l^4+2\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-12\,l^2\,R^2+28\,r^2\,R^2+48\,r\,R^3+27\,R^4\right)^2\right)\Big\}$$

$$\Big\{X6,\ \text{SYMMEDIAN POINT},\ X95,\ \text{CEVAPOINT OF CENTROID AND CIRCUMCENTER},$$
$$\left(l^{14}+21\,l^{12}\,r^2+57\,l^{10}\,r^4+37\,l^8\,r^6-37\,l^6\,r^8-57\,l^4\,r^{10}-21\,l^2\,r^{12}-r^{14}-28\,l^{12}\,r\,R-392\,l^{10}\,r^3\,R-292\,l^8\,r^5\,R+144\,l^6\,r^7\,R-292\,l^4\,r^9\,R-392\,l^2\,r^{11}\,R-28\,r^{13}\,R-8\,l^{12}\,R^2+116\,l^{10}\,r^2\,R^2+1864\,l^8\,r^4\,R^2-4104\,l^6\,r^6\,R^2+696\,l^4\,r^8\,R^2-3020\,l^2\,r^{10}\,R^2-344\,r^{12}\,R^2+192\,l^{10}\,r\,R^3+1088\,l^8\,r^3\,R^3-4800\,l^6\,r^5\,R^3+6976\,l^4\,r^7\,R^3-12\,288\,l^2\,r^9\,R^3-2432\,r^{11}\,R^3+16\,l^{10}\,R^4-944\,l^8\,r^2\,R^4-6336\,l^6\,r^4\,R^4+15\,936\,l^4\,r^6\,R^4-27\,984\,l^2\,r^8\,R^4-10\,896\,r^{10}\,R^4-320\,l^8\,r\,R^5-1152\,l^6\,r^3\,R^5+16\,768\,l^4\,r^5\,R^5-34\,944\,l^2\,r^7\,R^5-32\,064\,r^9\,R^5+832\,l^6\,r^2\,R^6+15\,744\,l^4\,r^4\,R^6-23\,232\,l^2\,r^6\,R^6-61\,952\,r^8\,R^6+3584\,l^4\,r^3\,R^7-11\,776\,l^2\,r^5\,R^7-75\,776\,r^7\,R^7-7168\,l^2\,r^4\,R^8-53\,248\,r^6\,R^8-16\,384\,r^5\,R^9\right)\Big/$$
$$\left(\left(l^2-r^2-4\,r\,R\right)^2\left(l^4+18\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-4\,l^2\,R^2+20\,r^2\,R^2+16\,r\,R^3\right)^2\right)\Big\}$$

$$\Big\{X6,\ \text{SYMMEDIAN POINT},\ X96,\ \text{ISOGONAL CONJUGATE OF } X(52),$$
$$-\left(\left(l^{14}-11\,l^{12}\,r^2-39\,l^{10}\,r^4-27\,l^8\,r^6+27\,l^6\,r^8+39\,l^4\,r^{10}+11\,l^2\,r^{12}-r^{14}-28\,l^{12}\,r\,R+248\,l^{10}\,r^3\,R+220\,l^8\,r^5\,R-112\,l^6\,r^7\,R+220\,l^4\,r^9\,R+248\,l^2\,r^{11}\,R-28\,r^{13}\,R-12\,l^{12}\,R^2+452\,l^{10}\,r^2\,R^2-2132\,l^8\,r^4\,R^2+2584\,l^6\,r^6\,R^2-1252\,l^4\,r^8\,R^2+2436\,l^2\,r^{10}\,R^2-348\,r^{12}\,R^2+288\,l^{10}\,r\,R^3-4384\,l^8\,r^3\,R^3+12\,160\,l^6\,r^5\,R^3-14\,080\,l^4\,r^7\,R^3+13\,664\,l^2\,r^9\,R^3-2528\,r^{11}\,R^3+56\,l^{10}\,R^4-3352\,l^8\,r^2\,R^4+24\,432\,l^6\,r^4\,R^4-48\,752\,l^4\,r^6\,R^4+48\,216\,l^2\,r^8\,R^4-11\,896\,r^{10}\,R^4-1120\,l^8\,r\,R^5+22\,144\,l^6\,r^3\,R^5-84\,544\,l^4\,r^5\,R^5+111\,232\,l^2\,r^7\,R^5-37\,984\,r^9\,R^5-128\,l^8\,R^6+9888\,l^6\,r^2\,R^6-82\,624\,l^4\,r^4\,R^6+169\,120\,l^2\,r^6\,R^6-83\,840\,r^8\,R^6+2048\,l^6\,r\,R^7-45\,312\,l^4\,r^3\,R^7+167\,168\,l^2\,r^5\,R^7-128\,000\,r^7\,R^7+144\,l^6\,R^8-13\,168\,l^4\,r^2\,R^8+103\,792\,l^2\,r^4\,R^8-133\,264\,r^6\,R^8-1728\,l^4\,r\,R^9+38\,016\,l^2\,r^3\,R^9-91\,840\,r^5\,R^9-64\,l^4\,R^{10}+7232\,l^2\,r^2\,R^{10}-39\,744\,r^4\,R^{10}+512\,l^2\,r\,R^{11}-9728\,r^3\,R^{11}-1024\,r^2\,R^{12}\right)\Big/$$
$$\left(\left(l^2-r^2-4\,r\,R\right)^2\left(l^4-14\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R+16\,r^2\,R^2-4\,R^4\right)^2\right)\Big)\Big\}$$

$$\{X6,\ \text{SYMMEDIAN POINT},\ X97,\ \text{ISOGONAL CONJUGATE OF } X(53),$$
$$\Big(R^2\big(4 l^{10} r^2 + 16 l^8 r^4 - 232 l^6 r^6 + 16 l^4 r^8 + 4 l^2 r^{10} - 64 l^8 r^3 R - 64 l^6 r^5 R + 64 l^4 r^7 R + 64 l^2 r^9 R + l^{10} R^2 - 9 l^8 r^2 R^2 + 54 l^6 r^4 R^2 + 74 l^4 r^6 R^2 + 393 l^2 r^8 R^2 - r^{10} R^2 - 20 l^8 r R^3 + 128 l^6 r^3 R^3 + 168 l^4 r^5 R^3 + 1152 l^2 r^7 R^3 - 20 r^9 R^3 - 8 l^8 R^4 - 12 l^6 r^2 R^4 + 840 l^4 r^4 R^4 + 1524 l^2 r^6 R^4 - 168 r^8 R^4 + 128 l^6 r R^5 + 608 l^4 r^3 R^5 + 288 l^2 r^5 R^5 - 768 r^7 R^5 + 16 l^6 R^6 + 240 l^4 r^2 R^6 - 1456 l^2 r^4 R^6 - 2064 r^6 R^6 - 192 l^4 r R^7 - 1792 l^2 r^3 R^7 - 3264 r^5 R^7 - 960 l^2 r^2 R^8 - 2816 r^4 R^8 - 1024 r^3 R^9\big)\Big) \Big/ \Big(\big(l^2 - r^2 - 4 r R\big)^2 \big(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 7 l^2 R^2 + 23 r^2 R^2 + 28 r R^3 + 12 R^4\big)^2\Big)\Big\}$$

$$\Big\{X6,\ \text{SYMMEDIAN POINT},\ X98,\ \text{TarryPoint},\ -\frac{1}{\big(l^2 - r^2 - 4 r R\big)^2 \big(l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\big)}$$
$$\big(l^{10} + 3 l^8 r^2 + 2 l^6 r^4 - 2 l^4 r^6 - 3 l^2 r^8 - r^{10} - 20 l^8 r R - 16 l^6 r^3 R + 8 l^4 r^5 R - 16 l^2 r^7 R - 20 r^9 R - 4 l^8 R^2 + 140 l^6 r^2 R^2 - 192 l^4 r^4 R^2 + 76 l^2 r^6 R^2 - 164 r^8 R^2 + 64 l^6 r R^3 - 544 l^4 r^3 R^3 + 672 l^2 r^5 R^3 - 704 r^7 R^3 - 384 l^4 r^2 R^4 + 1472 l^2 r^4 R^4 - 1664 r^6 R^4 + 1024 l^2 r^3 R^5 - 2048 r^5 R^5 - 1024 r^4 R^6\big)\Big\}$$

$$\{X6,\ \text{SYMMEDIAN POINT},\ X99,\ \text{STEINER POINT},$$
$$\big(l^{10} + 3 l^8 r^2 + 2 l^6 r^4 - 2 l^4 r^6 - 3 l^2 r^8 - r^{10} - 20 l^8 r R - 16 l^6 r^3 R + 8 l^4 r^5 R - 16 l^2 r^7 R - 20 r^9 R + 52 l^6 r^2 R^2 + 264 l^4 r^4 R^2 - 12 l^2 r^6 R^2 - 160 r^8 R^2 + 224 l^4 r^3 R^3 - 96 l^2 r^5 R^3 - 640 r^7 R^3 - 448 l^2 r^4 R^4 - 1280 r^6 R^4 - 1024 r^5 R^5\big) \Big/ \Big(\big(l^2 - r^2 - 4 r R\big)^2 \big(l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\big)\Big)\Big\}$$

$$\{X6,\ \text{SYMMEDIAN POINT},\ X100,\ \text{ANTICOMPLEMENT OF FEUERBACH POINT},$$
$$\frac{R\big(-l^6 - l^4 r^2 + l^2 r^4 + r^6 + 20 l^4 r R - 40 l^2 r^3 R + 12 r^5 R - 68 l^2 r^2 R^2 + 48 r^4 R^2 + 64 r^3 R^3\big)}{(2 r - R)\big(-l^2 + r^2 + 4 r R\big)^2}\Big\}$$

$$\Big\{X7,\ \text{GERGONNE POINT},\ X8,\ \text{NAGEL POINT},\ -\frac{16 R\big(-l^2 r + r^3 - l^2 R + 8 r^2 R + 16 r R^2\big)}{(r + 4 R)^2}\Big\}$$

$$\Big\{X7,\ \text{GERGONNE POINT},\ X9,\ \text{MITTENPUNKT},\ -\frac{5 l^2 r^2 + r^4 - 8 l^2 r R + 12 r^3 R - 4 l^2 R^2 + 48 r^2 R^2 + 64 r R^3}{(r + 4 R)^2}\Big\}$$

$$\{X7,\ \text{GERGONNE POINT},\ X10,\ \text{SPIEKER CENTER},$$
$$-\frac{7 l^2 r^2 + 3 r^4 - 24 l^2 r R + 40 r^3 R - 16 l^2 R^2 + 176 r^2 R^2 + 256 r R^3}{4 (r + 4 R)^2}\Big\}$$

$$\Big\{X7,\ \text{GERGONNE POINT},\ X11,\ \text{FEUERBACH POINT},\ -\frac{r^2\big(3 l^2 r + r^3 - 15 l^2 R + 12 r^2 R + 48 r R^2 + 64 R^3\big)}{(2 r - R)(r + 4 R)^2}\Big\}$$

$$\{X7,\ \text{GERGONNE POINT},\ X12,\ \{X(1), X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),$$
$$-\frac{r^2\big(6 l^2 r^2 + 2 r^4 - 15 l^2 r R + 25 r^3 R - 9 l^2 R^2 + 104 r^2 R^2 + 144 r R^3\big)}{(2 r + R)^2 (r + 4 R)^2}\Big\}$$

$$\{X7,\ \text{GERGONNE POINT},\ X13,\ \text{FERMAT POINT},$$
$$\Big(r^2\big(-\sqrt{3}\, l + r + 4 R\big)\big(3\sqrt{3}\, l^3 + 7 l^2 r - \sqrt{3}\, l r^2 + 3 r^3 - 44 l^2 R - 8\sqrt{3}\, l r R + 36 r^2 R - 16\sqrt{3}\, l R^2 + 144 r R^2 + 192 R^3\big)\Big) \Big/ \Big(3 (r + 4 R)^2 \big(l^2 + 2\sqrt{3}\, l r - r^2 - 4 r R\big)\Big)\Big\}$$

$$\{X7,\ \text{GERGONNE POINT},\ X14,\ \text{2nd ISOGONIC CENTER},$$
$$\Big(r^2\big(\sqrt{3}\, l + r + 4 R\big)\big(-3\sqrt{3}\, l^3 + 7 l^2 r + \sqrt{3}\, l r^2 + 3 r^3 - 44 l^2 R + 8\sqrt{3}\, l r R + 36 r^2 R + 16\sqrt{3}\, l R^2 + 144 r R^2 + 192 R^3\big)\Big) \Big/ \Big(3 (r + 4 R)^2 \big(l^2 - 2\sqrt{3}\, l r - r^2 - 4 r R\big)\Big)\Big\}$$

$$\{X7,\ \text{GERGONNE POINT},\ X15,\ \text{1st ISODYNAMIC POINT},$$
$$-\Big(\Big(r^2\big(-\sqrt{3}\, l + r + 4 R\big)\big(\sqrt{3}\, l^3 + 9 l^2 r + \sqrt{3}\, l r^2 + r^3 + 12 l^2 R + 8\sqrt{3}\, l r R + 12 r^2 R + 16\sqrt{3}\, l R^2 + 48 r R^2 + 64 R^3\big)\Big) \Big/ \Big((r + 4 R)^2 \big(-l^2 - 2\sqrt{3}\, l r + r^2 + 4 r R\big)\Big)\Big)\Big\}$$

$$\left\{\text{X7, GERGONNE POINT, X16, 2nd ISODYNAMIC POINT,}\right.$$
$$-\left(\left(r^2\left(\sqrt{3}\,l+r+4R\right)\left(-\sqrt{3}\,l^3+9l^2r-\sqrt{3}\,lr^2+r^3+12l^2R-8\sqrt{3}\,lrR+12r^2R-16\sqrt{3}\,lR^2+48rR^2+64R^3\right)\right)\Big/\left((r+4R)^2\left(-l^2+2\sqrt{3}\,lr+r^2+4rR\right)\right)\right)\Big\}$$

$$\left\{\text{X7, GERGONNE POINT, X17, 1st NAPOLEON POINT,}\right.$$
$$-\frac{1}{(r+4R)^2\left(3l^2+10\sqrt{3}\,lr-3r^2-12rR\right)^2}3r^2\left(9l^6+50\sqrt{3}\,l^5r+165l^4r^2-60\sqrt{3}\,l^3r^3+63l^2r^4-14\sqrt{3}\,lr^5+3r^6-40\sqrt{3}\,l^5R-572l^4rR-104\sqrt{3}\,l^3r^2R+672l^2r^3R-224\sqrt{3}\,lr^4R+60r^5R-128l^4R^2+608\sqrt{3}\,l^3rR^2+2336l^2r^2R^2-1344\sqrt{3}\,lr^3R^2+480r^4R^2+256\sqrt{3}\,l^3R^3+2560l^2rR^3-3584\sqrt{3}\,lr^2R^3+1920r^3R^3-256l^2R^4-3584\sqrt{3}\,lrR^4+3840r^2R^4+3072rR^5\right)\Big\}$$

$$\left\{\text{X7, GERGONNE POINT, X18, 2nd NAPOLEON POINT,}\right.$$
$$-\frac{1}{(r+4R)^2\left(3l^2-10\sqrt{3}\,lr-3r^2-12rR\right)^2}3r^2\left(9l^6-50\sqrt{3}\,l^5r+165l^4r^2+60\sqrt{3}\,l^3r^3+63l^2r^4+14\sqrt{3}\,lr^5+3r^6+40\sqrt{3}\,l^5R-572l^4rR+104\sqrt{3}\,l^3r^2R+672l^2r^3R+224\sqrt{3}\,lr^4R+60r^5R-128l^4R^2-608\sqrt{3}\,l^3rR^2+2336l^2r^2R^2+1344\sqrt{3}\,lr^3R^2+480r^4R^2-256\sqrt{3}\,l^3R^3+2560l^2rR^3+3584\sqrt{3}\,lr^2R^3+1920r^3R^3-256l^2R^4+3584\sqrt{3}\,lrR^4+3840r^2R^4+3072rR^5\right)\Big\}$$

$$\left\{\text{X7, GERGONNE POINT, X19, CLAWSON POINT,}\right.$$
$$-\left(\left(5l^6r^2-9l^4r^4+3l^2r^6+r^8+8l^6rR-48l^4r^3R+16l^2r^5R+24r^7R-20l^4r^2R^2-96l^2r^4R^2+244r^6R^2+128l^4rR^3-880l^2r^3R^3+1360r^5R^3+64l^4R^4-2192l^2r^2R^4+4480r^4R^4-1920l^2rR^5+8704r^3R^5-256l^2R^6+9216r^2R^6+4096rR^7\right)\Big/\left((r+4R)^2\left(-l^2+r^2+6rR+8R^2\right)^2\right)\right)\Big\}$$

$$\left\{\text{X7, GERGONNE POINT, X20, DE LONGCHAMPS POINT, }\frac{4(r+2R)^2\left(-3l^2+r^2+8rR+16R^2\right)}{(r+4R)^2}\right\}$$

$$\left\{\text{X7, GERGONNE POINT, X21, SCHIFFLER POINT,}\right.$$
$$-\frac{4(r+2R)^2\left(4l^2r^2-3l^2rR+r^3R-l^2R^2+8r^2R^2+16rR^3\right)}{(2r+3R)^2(r+4R)^2}\Big\}$$

$$\left\{\text{X7, GERGONNE POINT, X22, ExeterPoint,}\right.$$
$$-\left(\left(4l^6r^2-8l^4r^4+4l^2r^6+4l^6rR-40l^4r^3R+36l^2r^5R-51l^4r^2R^2+114l^2r^4R^2+r^6R^2-4l^4rR^3+132l^2r^3R^3+16r^5R^3-12l^2r^2R^4+100r^4R^4-96l^2rR^5+304r^3R^5-16l^2R^6+448r^2R^6+256rR^7\right)\Big/\left((r+4R)^2\left(-l^2+r^2+4rR+3R^2\right)^2\right)\right)\Big\}$$

$$\left\{\text{X7, GERGONNE POINT, X23, FarOutPoint,}\right.$$
$$-\left(\left(4\left(-2l^4r^2+2l^2r^4-2l^4rR+10l^2r^3R+13l^2r^2R^2+r^4R^2-8l^2rR^3+12r^3R^3-4l^2R^4+48r^2R^4+64rR^5\right)\right)\Big/\left((r+4R)^2\left(-2l^2+2r^2+8rR+9R^2\right)\right)\right)\Big\}$$

$$\left\{\text{X7, GERGONNE POINT, X24, PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE,}\right.$$
$$-\left(\left(4l^6r^2-8l^4r^4+4l^2r^6+4l^6rR-40l^4r^3R+36l^2r^5R-67l^4r^2R^2+130l^2r^4R^2+r^6R^2-20l^4rR^3+212l^2r^3R^3+16r^5R^3+108l^2r^2R^4+100r^4R^4-56l^2rR^5+304r^3R^5+16l^2R^6+444r^2R^6+224rR^7-64R^8\right)\Big/\left((r+4R)^2\left(-l^2+r^2+4rR+5R^2\right)^2\right)\right)\Big\}$$

$$\left\{\text{X7, GERGONNE POINT, X25, HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES,}\right.$$
$$-\left(\left(4l^6r^2-8l^4r^4+4l^2r^6+4l^6rR-40l^4r^3R+36l^2r^5R-69l^4r^2R^2+130l^2r^4R^2+3r^6R^2+176l^2r^3R^3+48r^5R^3+16l^4R^4-80l^2r^2R^4+304r^4R^4-384l^2rR^5+960r^3R^5-64l^2R^6+1536r^2R^6+1024rR^7\right)\Big/\left((r+4R)^2\left(-l^2+r^2+4rR+6R^2\right)^2\right)\right)\Big\}$$

$$\left\{\text{X7, GERGONNE POINT, X26, CIRCUMCENTER OF THE TANGENTIAL TRIANGLE,}\right.$$
$$-\left(\left(4l^6r^2-8l^4r^4+4l^2r^6+4l^6rR-40l^4r^3R+36l^2r^5R-59l^4r^2R^2+122l^2r^4R^2+r^6R^2-12l^4rR^3+172l^2r^3R^3+16r^5R^3+44l^2r^2R^4+100r^4R^4-80l^2rR^5+304r^3R^5+447r^2R^6+248rR^7-16R^8\right)\Big/\left((-l+r+2R)^2(l+r+2R)^2(r+4R)^2\right)\right)\Big\}$$

$$\{X7,\ \text{GERGONNE POINT},\ X27,\ \text{CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER},$$
$$-\left(\left(4\,(r+2R)^2\left(3l^6-9l^4r^2+5l^2r^4+r^6-20l^4rR+12l^2r^3R+16r^5R-8l^4R^2-16l^2r^2R^2+100r^4R^2-48l^2rR^3+304r^3R^3-16l^2R^4+448r^2R^4+256rR^5\right)\right)\Big/\left((r+4R)^2\left(-l^2+3r^2+12rR+12R^2\right)^2\right)\right)\}$$

$$\{X7,\ \text{GERGONNE POINT},\ X28,\ \text{CEVAPOINT OF X(19) AND X(25)},$$
$$-\left(\left(4l^6r^2-8l^4r^4+4l^2r^6+4l^6rR-42l^4r^3R+36l^2r^5R+2r^7R-49l^4r^2R^2+94l^2r^4R^2+35r^6R^2+16l^4rR^3-20l^2r^3R^3+252r^5R^3+16l^4R^4-400l^2r^2R^4+956r^4R^4-448l^2rR^5+2016r^3R^5-64l^2R^6+2240r^2R^6+1024rR^7\right)\Big/\left((r+4R)^2\left(-l^2+r^2+5rR+6R^2\right)^2\right)\right)\}$$

$$\{X7,\ \text{GERGONNE POINT},\ X29,\ \text{CEVAPOINT OF INCENTER AND ORTHOCENTER},$$
$$\left(4\left(-5l^6r^2+7l^4r^4-3l^2r^6+r^8+8l^6rR+36l^4r^3R-36l^2r^5R+16r^7R+4l^6R^2-24l^4r^2R^2-124l^2r^4R^2+100r^6R^2-160l^4rR^3+288r^5R^3-32l^4R^4+624l^2r^2R^4+256r^4R^4+768l^2rR^5-576r^3R^5+64l^2R^6-1536r^2R^6-1024rR^7\right)\right)\Big/\left((r+4R)^2\left(-3l^2+r^2+8rR+12R^2\right)^2\right)\}$$

$$\{X7,\ \text{GERGONNE POINT},\ X30,\ \text{EulerInfinityPoint},\ \infty\}$$

$$\{X7,\ \text{GERGONNE POINT},\ X31,\ \text{SecondPowerPoint},$$
$$-\left(\left(r^2\left(3l^6-23l^4r^2+41l^2r^4+3r^6-56l^4rR+184l^2r^3R+48r^5R+160l^2r^2R^2+304r^4R^2-128l^2rR^3+960r^3R^3-64l^2R^4+1536r^2R^4+1024rR^5\right)\right)\Big/\left((r+4R)^2\left(-l^2+3r^2+6rR\right)^2\right)\right)\}$$

$$\{X7,\ \text{GERGONNE POINT},\ X32,\ \text{ThirdPowerPoint},$$
$$-\frac{1}{(r+4R)^2\left(-l^2-2lr+r^2+4rR\right)^2\left(-l^2+2lr+r^2+4rR\right)^2}$$
$$r^2\left(3l^{10}-43l^8r^2+158l^6r^4-54l^4r^6-l^2r^8+r^{10}-76l^8rR+568l^6r^3R-464l^4r^5R-56l^2r^7R+28r^9R+476l^6r^2R^2-952l^4r^4R^2-772l^2r^6R^2+336r^8R^2-160l^6rR^3+928l^4r^3R^3-4672l^2r^5R^3+2240r^7R^3-64l^6R^4+3456l^4r^2R^4-13952l^2r^4R^4+8960r^6R^4+1536l^4rR^5-19456l^2r^3R^5+21504r^5R^5-9216l^2r^2R^6+28672r^4R^6+16384r^3R^7\right)\}$$

$$\{X7,\ \text{GERGONNE POINT},\ X33,\ \text{PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES},$$
$$\left(r^2\left(-3l^6+7l^4r^2-5l^2r^4+r^6+28l^4rR-48l^2r^3R+20r^5R+72l^4R^2-232l^2r^2R^2+160r^4R^2-496l^2rR^3+656r^3R^3-496l^2R^4+1472r^2R^4+1792rR^5+1024R^6\right)\right)\Big/\left((r+4R)^2\left(-l^2+r^2+2rR+4R^2\right)^2\right)\}$$

$$\{X7,\ \text{GERGONNE POINT},\ X34,\ X(4)\text{-BETH CONJUGATE OF X(4)},$$
$$\left(r^2\left(-3l^6+7l^4r^2-5l^2r^4+r^6+36l^4rR-48l^2r^3R+12r^5R+8l^4R^2-120l^2r^2R^2+48r^4R^2-16l^2rR^3+48r^3R^3+16l^2R^4-128r^2R^4-256rR^5\right)\right)\Big/\left((r+4R)^2\left(-l^2+r^2+6rR+4R^2\right)^2\right)\}$$

$$\{X7,\ \text{GERGONNE POINT},\ X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF X(36)},$$
$$\frac{r^2\left(-16l^2r^2-30l^2rR+2r^3R-11l^2R^2+25r^2R^2+104rR^3+144R^4\right)}{(2r+R)^2(r+4R)^2}\}$$

$$\{X7,\ \text{GERGONNE POINT},\ X36,$$
$$\text{INVERSE-IN-CIRCUMCIRCLE OF INCENTER},\ -\frac{r^2\left(8l^2r+5l^2R+r^2R+8rR^2+16R^3\right)}{(2r-R)(r+4R)^2}\}$$

$$\{X7,\ \text{GERGONNE POINT},\ X37,\ \text{CrosspointOfIncenterAndCentroid},$$
$$-\left(\left(r^2\left(3l^6+7l^4r^2+5l^2r^4+r^6+20l^4rR+32l^2r^3R+20r^5R-32l^4R^2+12l^2r^2R^2+160r^4R^2-160l^2rR^3+640r^3R^3-64l^2R^4+1280r^2R^4+1024rR^5\right)\right)\Big/\left((r+4R)^2\left(l^2+r^2+4rR\right)^2\right)\right)\}$$

$$\{X7,\ \text{GERGONNE POINT},\ X38,\ \text{CROSSPOINT OF X(1) AND X(75)},$$
$$-\left(\left(r^2\left(3l^6+9l^4r^2+9l^2r^4+3r^6-8l^4rR+8l^2r^3R+48r^5R-32l^4R^2+304r^4R^2+960r^3R^3-64l^2R^4+1536r^2R^4+1024rR^5\right)\right)\Big/\left((r+4R)^2\left(l^2+r^2-2rR\right)^2\right)\right)\}$$

$$\left\{X7,\ \text{GERGONNE POINT},\ X39,\ \text{BrocardMidpoint},\ -\frac{1}{(r+4R)^2\left(l^4+2l^2r^2+r^4-8l^2rR+8r^3R+16r^2R^2\right)^2}r^2\left(3l^{10}+13l^8r^2+22l^6r^4+18l^4r^6+7l^2r^8+r^{10}-44l^8rR-40l^6r^3R+80l^4r^5R+104l^2r^7R+28r^9R+220l^6r^2R^2-184l^4r^4R^2+508l^2r^6R^2+336r^8R^2-160l^6rR^3-608l^4r^3R^3+448l^2r^5R^3+2240r^7R^3-64l^6R^4+1408l^4r^2R^4-3712l^2r^4R^4+8960r^6R^4+1536l^4rR^5-11264l^2r^3R^5+21504r^5R^5-9216l^2r^2R^6+28672r^4R^6+16384r^3R^7\right)\right\}$$

$$\left\{X7,\ \text{GERGONNE POINT},\ X40,\ \text{BEVAN POINT},\ -\frac{5l^2r^2+r^4+8l^2rR+12r^3R+44r^2R^2+32rR^3-64R^4}{(r+4R)^2}\right\}$$

$$\left\{X7,\ \text{GERGONNE POINT},\ X41,\ X(6)\text{-CEVA CONJUGATE OF } X(31),\ -\frac{1}{(r+4R)^2\left(-3l^2r+r^3-2l^2R+8r^2R+16rR^2\right)^2}r^2\left(33l^6r^2-29l^4r^4+3l^2r^6+r^8+64l^6rR-252l^4r^3R+32l^2r^5R+28r^7R+28l^6R^2-616l^4r^2R^2+28l^2r^4R^2+336r^6R^2-256l^4rR^3-832l^2r^3R^3+2240r^5R^3+128l^4R^4-3712l^2r^2R^4+8960r^4R^4-5120l^2rR^5+21504r^3R^5-1024l^2R^6+28672r^2R^6+16384rR^7\right)\right\}$$

$$\left\{X7,\ \text{GERGONNE POINT},\ X42,\ \text{CROSSPOINT OF INCENTER AND SYMMEDIAN POINT},\ \left(r^2\left(-3l^6-5l^4r^2-l^2r^4+r^6+16l^4rR+32l^2r^3R+16r^5R+80l^2r^2R^2+80r^4R^2+192l^2rR^3+64r^3R^3+64l^2R^4-512r^2R^4-1024rR^5\right)\right)\Big/\left((r+4R)^2\left(l^2+r^2-2rR\right)^2\right)\right\}$$

$$\left\{X7,\ \text{GERGONNE POINT},\ X43,\ X(6)\text{-CEVA CONJUGATE OF } X(1),\ \left(r^2\left(-3l^6-5l^4r^2-l^2r^4+r^6+48l^4rR+64l^2r^3R+16r^5R-16l^4R^2-48l^2r^2R^2+32r^4R^2+512l^2rR^3-512r^3R^3+256l^2R^4-2816r^2R^4-4096rR^5\right)\right)\Big/\left((r+4R)^2\left(l^2+r^2-8rR\right)^2\right)\right\}$$

$$\left\{X7,\ \text{GERGONNE POINT},\ X44,\ X(6)\text{-LINE CONJUGATE OF } X(1),\ -\left(\left(r^2\left(3l^6-25l^4r^2+45l^2r^4+9r^6-92l^4rR+288l^2r^3R+180r^5R+32l^4R^2+108l^2r^2R^2+1440r^4R^2-1440l^2rR^3+5760r^3R^3-576l^2R^4+11520r^2R^4+9216rR^5\right)\right)\Big/\left((r+4R)^2\left(-l^2+3r^2+12rR\right)^2\right)\right)\right\}$$

$$\left\{X7,\ \text{GERGONNE POINT},\ X45,\ X(9)\text{-BETH CONJUGATE OF } X(1),\ -\left(\left(r^2\left(3l^6+23l^4r^2+45l^2r^4+9r^6+76l^4rR+288l^2r^3R+180r^5R-64l^4R^2+108l^2r^2R^2+1440r^4R^2-1440l^2rR^3+5760r^3R^3-576l^2R^4+11520r^2R^4+9216rR^5\right)\right)\Big/\left((r+4R)^2\left(l^2+3r^2+12rR\right)^2\right)\right)\right\}$$

$$\left\{X7,\ \text{GERGONNE POINT},\ X46,\ X(4)\text{-CEVA CONJUGATE OF } X(1),\ -\frac{r^2\left(5l^2r^2+r^4+12r^3R-5l^2R^2+47r^2R^2+56rR^3-16R^4\right)}{(r-R)^2(r+4R)^2}\right\}$$

$$\left\{X7,\ \text{GERGONNE POINT},\ X47,\ X(110)\text{-BETH CONJUGATE OF } X(34),\ -\left(\left(r^2\left(3l^6-23l^4r^2+41l^2r^4+3r^6-56l^4rR+184l^2r^3R+48r^5R-12l^4R^2+208l^2r^2R^2+300r^4R^2+912r^3R^3-20l^2R^4+1340r^2R^4+736rR^5-64R^6\right)\right)\Big/\left((r+4R)^2\left(-l^2+3r^2+6rR+2R^2\right)^2\right)\right)\right\}$$

$$\left\{X7,\ \text{GERGONNE POINT},\ X48,\ \text{CROSSPOINT OF } X(1)\ \text{AND } X(63),\ -\left(\left(33l^6r^2-29l^4r^4+3l^2r^6+r^8+24l^6rR-176l^4r^3R+16l^2r^5R+24r^7R-228l^4r^2R^2-96l^2r^4R^2+244r^6R^2+64l^4rR^3-880l^2r^3R^3+1360r^5R^3+64l^4R^4-2192l^2r^2R^4+4480r^4R^4-1920l^2rR^5+8704r^3R^5-256l^2R^6+9216r^2R^6+4096rR^7\right)\Big/\left((r+4R)^2\left(-3l^2+r^2+6rR+8R^2\right)^2\right)\right)\right\}$$

$$\left\{X7,\ \text{GERGONNE POINT},\ X49,\ \text{CENTER OF SINE-TRIPLE-ANGLE CIRCLE},\ -\left(\left(14l^6r^2-34l^4r^4+18l^2r^6+2r^8+8l^6rR-152l^4r^3R+136l^2r^5R+40r^7R-148l^4r^2R^2+296l^2r^4R^2+332r^6R^2+4l^4rR^3+4l^2r^3R^3+1472r^5R^3+16l^4R^4-598l^2r^2R^4+3730r^4R^4-500l^2rR^5+5336r^3R^5-64l^2R^6+3935r^2R^6+1144rR^7-16R^8\right)\Big/\left((r+4R)^2\left(-2l^2+2r^2+8rR+7R^2\right)^2\right)\right)\right\}$$

$$\{X7,\ \text{GERGONNE POINT},\ X50,\ X(74)\text{-CEVA CONJUGATE OF } X(184),$$
$$-\Big(\Big(r^2\big(3 l^{10}-43 l^8 r^2+158 l^6 r^4-54 l^4 r^6-l^2 r^8+r^{10}-76 l^8 r R+568 l^6 r^3 R-464 l^4 r^5 R-56 l^2 r^7 R+$$
$$28 r^9 R-18 l^8 R^2+632 l^6 r^2 R^2-1156 l^4 r^4 R^2-760 l^2 r^6 R^2+342 r^8 R^2+176 l^6 r R^3-$$
$$224 l^4 r^3 R^3-4672 l^2 r^5 R^3+2384 r^7 R^3-37 l^6 R^4+2247 l^4 r^2 R^4-15179 l^2 r^4 R^4+$$
$$10409 r^6 R^4+2172 l^4 r R^5-26752 l^2 r^3 R^5+29364 r^5 R^5+384 l^4 R^6-24084 l^2 r^2 R^6+$$
$$53152 r^4 R^6-9120 l^2 r R^7+59008 r^3 R^7-576 l^2 R^8+36096 r^2 R^8+9216 r R^9\big)\Big)\Big/$$
$$\big((r+4R)^2\big(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-3 l^2 R^2+19 r^2 R^2+12 r R^3\big)^2\big)\Big)\}$$

$$\{X7,\ \text{GERGONNE POINT},\ X51,\ \text{CENTROID OF ORTHIC TRIANGLE},$$
$$-\frac{1}{36 R^2 (r+4R)^2}\big(-5 l^4 r^2+6 l^2 r^4-5 r^6-16 l^4 r R+112 l^2 r^3 R-80 r^5 R+16 l^4 R^2+$$
$$400 l^2 r^2 R^2-464 r^4 R^2-256 l^2 r R^3-1088 r^3 R^3-64 l^2 R^4-512 r^2 R^4+1024 r R^5\big)\}$$

$$\{X7,\ \text{GERGONNE POINT},\ X52,\ \text{ORTHOCENTER OF ORTHIC TRIANGLE},$$
$$\frac{1}{4 R^2 (r+4R)^2}\big(3 l^4 r^2-10 l^2 r^4+3 r^6+16 l^4 r R-112 l^2 r^3 R+48 r^5 R+16 l^4 R^2-$$
$$340 l^2 r^2 R^2+292 r^4 R^2-176 l^2 r R^3+816 r^3 R^3-64 l^2 R^4+964 r^2 R^4+288 r R^5+64 R^6\big)\}$$

$$\{X7,\ \text{GERGONNE POINT},\ X53,\ \text{SYMMEDIAN POINT OF ORTHIC TRIANGLE},$$
$$-\Big(\Big(r^2\big(3 l^{10}-23 l^8 r^2+34 l^6 r^4-10 l^4 r^6-5 l^2 r^8+r^{10}+4 l^8 r R-120 l^6 r^3 R+96 l^4 r^5 R-136 l^2 r^7 R+$$
$$28 r^9 R-24 l^8 R^2-228 l^6 r^2 R^2+1384 l^4 r^4 R^2-1412 l^2 r^6 R^2+344 r^8 R^2-288 l^6 r R^3+$$
$$4704 l^4 r^3 R^3-7488 l^2 r^5 R^3+2432 r^7 R^3-16 l^6 R^4+6160 l^4 r^2 R^4-22224 l^2 r^4 R^4+$$
$$10896 r^6 R^4+3264 l^4 r R^5-37248 l^2 r^3 R^5+32064 r^5 R^5+512 l^4 R^6-33088 l^2 r^2 R^6+$$
$$61952 r^4 R^6-12800 l^2 r R^7+75776 r^3 R^7-1024 l^2 R^8+53248 r^2 R^8+16384 r R^9\big)\Big)\Big/$$
$$\big((r+4R)^2\big(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-4 l^2 R^2+20 r^2 R^2+16 r R^3\big)^2\big)\Big)\}$$

$$\{X7,\ \text{GERGONNE POINT},\ X54,\ \text{KosnitaPoint},$$
$$-\Big(\Big(14 l^6 r^2-34 l^4 r^4+18 l^2 r^6+2 r^8+8 l^6 r R-152 l^4 r^3 R+136 l^2 r^5 R+40 r^7 R-129 l^4 r^2 R^2+$$
$$278 l^2 r^4 R^2+327 r^6 R^2-20 l^4 r R^3-4 l^2 r^3 R^3+1392 r^5 R^3-324 l^2 r^2 R^4+3236 r^4 R^4-120 l^2 r R^5+$$
$$3888 r^3 R^5+16 l^2 R^6+1980 r^2 R^6+224 r R^7-64 R^8\Big)\Big/\Big((r+4R)^2\big(-2 l^2+2 r^2+8 r R+5 R^2\big)^2\Big)\Big)\}$$

$$\{X7,\ \text{GERGONNE POINT},\ X55,\ \text{INSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),$$
$$\frac{r^2\big(-4 l^2 r^2-11 l^2 r R+r^3 R-7 l^2 R^2+12 r^2 R^2+48 r R^3+64 R^4\big)}{(r+R)^2 (r+4R)^2}\}$$

$$\{X7,\ \text{GERGONNE POINT},\ X56,\ \text{EXSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),$$
$$-\frac{r^2\big(4 l^2 r^2-3 l^2 r R+r^3 R-l^2 R^2+8 r^2 R^2+16 r R^3\big)}{(r-R)^2 (r+4R)^2}\}$$

$$\{X7,\ \text{GERGONNE POINT},\ X57,\ \text{ISOGONAL CONJUGATE OF } X(9),$$
$$-\frac{r^2\big(5 l^2 r^2+r^4-8 l^2 r R+12 r^3 R-4 l^2 R^2+48 r^2 R^2+64 r R^3\big)}{(r-2R)^2 (r+4R)^2}\}$$

$$\{X7,\ \text{GERGONNE POINT},\ X58,\ \text{ISOGONAL CONJUGATE OF } X(10),$$
$$-\Big(\Big(r^2\big(3 l^6-23 l^4 r^2+41 l^2 r^4+3 r^6-44 l^4 r R+136 l^2 r^3 R+52 r^5 R+44 l^2 r^2 R^2+348 r^4 R^2-160 l^2 r R^3+$$
$$1120 r^3 R^3-64 l^2 R^4+1728 r^2 R^4+1024 r R^5\big)\Big)\Big/\Big((r+4R)^2\big(-l^2+3 r^2+4 r R\big)^2\Big)\Big)\}$$

$$\{X7,\ \text{GERGONNE POINT},\ X59,\ \text{ISOGONAL CONJUGATE OF } X(11),$$
$$-\Big(\Big(r^2\big(7 l^6 r-17 l^4 r^3+9 l^2 r^5+r^7+l^6 R-82 l^4 r^2 R+81 l^2 r^4 R+20 r^6 R-56 l^4 r R^2+$$
$$216 l^2 r^3 R^2+160 r^5 R^2+144 l^2 r^2 R^3+640 r^4 R^3+1280 r^3 R^4+1024 r^2 R^5\big)\Big)\Big/$$
$$\big((2r-R)(r+4R)^2\big(-l^2+r^2+5 r R+4 R^2\big)^2\big)\Big)\}$$

$$\left\{X7,\ \text{GERGONNE POINT},\ X60,\ \text{ISOGONAL CONJUGATE OF } X(12),\right.$$
$$-\frac{1}{(r+4R)^2\left(-2l^2r+2r^3-l^2R+7r^2R+7rR^2\right)^2}$$
$$r^2\left(14l^6r^2-34l^4r^4+18l^2r^6+2r^8+21l^6rR-157l^4r^3R+119l^2r^5R+41r^7R+7l^6R^2-\right.$$
$$218l^4r^2R^2+207l^2r^4R^2+352r^6R^2-72l^4rR^3-208l^2r^3R^3+1640r^5R^3+8l^4R^4-$$
$$\left.\left.984l^2r^2R^4+4480r^4R^4-880l^2rR^5+7184r^3R^5-144l^2R^6+6272r^2R^6+2304rR^7\right)\right\}$$

$$\left\{X7,\ \text{GERGONNE POINT},\ X61,\ \text{ISOGONAL CONJUGATE OF } X(17),\right.$$
$$-\frac{1}{(r+4R)^2\left(3l^2+2\sqrt{3}\,lr-3r^2-12rR\right)^2}3r^2$$
$$\left(9l^6+14\sqrt{3}\,l^5r-11l^4r^2-20\sqrt{3}\,l^3r^3+15l^2r^4-2\sqrt{3}\,lr^5+3r^6+8\sqrt{3}\,l^5R-92l^4rR-88\sqrt{3}\,l^3\right.$$
$$r^2R+96l^2r^3R-32\sqrt{3}\,lr^4R+60r^5R-32\sqrt{3}\,l^3rR^2+32l^2r^2R^2-192\sqrt{3}\,lr^3R^2+480r^4R^2-$$
$$\left.\left.512l^2rR^3-512\sqrt{3}\,lr^2R^3+1920r^3R^3-256l^2R^4-512\sqrt{3}\,lrR^4+3840r^2R^4+3072rR^5\right)\right\}$$

$$\left\{X7,\ \text{GERGONNE POINT},\ X62,\ \text{ISOGONAL CONJUGATE OF } X(18),\right.$$
$$-\frac{1}{(r+4R)^2\left(3l^2-2\sqrt{3}\,lr-3r^2-12rR\right)^2}3r^2$$
$$\left(9l^6-14\sqrt{3}\,l^5r-11l^4r^2+20\sqrt{3}\,l^3r^3+15l^2r^4+2\sqrt{3}\,lr^5+3r^6-8\sqrt{3}\,l^5R-92l^4rR+88\sqrt{3}\,l^3\right.$$
$$r^2R+96l^2r^3R+32\sqrt{3}\,lr^4R+60r^5R+32\sqrt{3}\,l^3rR^2+32l^2r^2R^2+192\sqrt{3}\,lr^3R^2+480r^4R^2-$$
$$\left.\left.512l^2rR^3+512\sqrt{3}\,lr^2R^3+1920r^3R^3-256l^2R^4+512\sqrt{3}\,lrR^4+3840r^2R^4+3072rR^5\right)\right\}$$

$$\left\{X7,\ \text{GERGONNE POINT},\ X63,\ \text{ISOGONAL CONJUGATE OF } X(19),\right.$$
$$\left.-\frac{(r+2R)^2\left(5l^2r^2+r^4-8l^2rR+12r^3R-4l^2R^2+48r^2R^2+64rR^3\right)}{(r+R)^2(r+4R)^2}\right\}$$

$$\left\{X7,\ \text{GERGONNE POINT},\ X64,\ \text{ISOGONAL CONJUGATE OF } X(20),\ \frac{1}{(-l+r+2R)^2(l+r+2R)^2(r+4R)^2}\right.$$
$$\left(-5l^6r^2+7l^4r^4-3l^2r^6+r^8-8l^6rR+44l^4r^3R-40l^2r^5R+20r^7R+132l^4r^2R^2-\right.$$
$$260l^2r^4R^2+180r^6R^2+224l^4rR^3-992l^2r^3R^3+960r^5R^3+192l^4R^4-2304l^2r^2R^4+$$
$$\left.\left.3328r^4R^4-3072l^2rR^5+7680r^3R^5-1792l^2R^6+11520r^2R^6+10240rR^7+4096R^8\right)\right\}$$

$$\left\{X7,\ \text{GERGONNE POINT},\ X65,\right.$$
$$\left.\text{ORTHOCENTER OF THE INTOUCH TRIANGLE},\ -\frac{r^2\left(-l^2r+r^3-l^2R+8r^2R+16rR^2\right)}{R(r+4R)^2}\right\}$$

$$\left\{X7,\ \text{GERGONNE POINT},\ X66,\ \text{ISOGONAL CONJUGATE OF } X(22),\right.$$
$$-\frac{1}{(-l+r+2R)^2(l+r+2R)^2(r+4R)^2\left(-l^2+r^2+4rR\right)^2}$$
$$R\left(-12l^{10}r+40l^8r^3-48l^6r^5+24l^4r^7-4l^2r^9+169l^8r^2R-408l^6r^4R+310l^4r^6R-\right.$$
$$72l^2r^8R+r^{10}R+136l^8rR^2-1216l^6r^3R^2+1632l^4r^5R^2-576l^2r^7R^2+24r^9R^2+$$
$$16l^8R^3-1540l^6r^2R^3+4524l^4r^4R^3-2668l^2r^6R^3+244r^8R^3-736l^6rR^4+6864l^4r^3R^4-$$
$$7616l^2r^5R^4+1360r^7R^4-64l^6R^5+5056l^4r^2R^5-13008l^2r^4R^5+4480r^6R^5+$$
$$\left.\left.1280l^4rR^6-11904l^2r^3R^6+8704r^5R^6-4352l^2r^2R^7+9216r^4R^7+4096r^3R^8\right)\right\}$$

$$\left\{X7,\ \text{GERGONNE POINT},\ X67,\ \text{ISOGONAL CONJUGATE OF } X(23),\right.$$
$$-\frac{1}{(r+4R)^2\left(-l^2+r^2+4rR\right)^2\left(-2l^2+2r^2+8rR+9R^2\right)}$$
$$R\left(28l^8r-60l^6r^3+36l^4r^5-4l^2r^7+16l^8R-325l^6r^2R+375l^4r^4R-67l^2r^6R+r^8R-\right.$$
$$464l^6rR^2+1452l^4r^3R^2-480l^2r^5R^2+20r^7R^2-64l^6R^3+2400l^4r^2R^3-1780l^2r^4R^3+$$
$$\left.\left.160r^6R^3+1152l^4rR^4-3232l^2r^3R^4+640r^5R^4-2112l^2r^2R^5+1280r^4R^5+1024r^3R^6\right)\right\}$$

$$\left\{X7,\ \text{GERGONNE POINT},\ X68,\ \text{PRASOLOV POINT},\right.$$
$$-\left(\left(R\left(-12l^6r+16l^4r^3-4l^2r^5+73l^4r^2R-38l^2r^4R+r^6R+128l^4rR^2-176l^2r^3R^2+16r^5R^2-\right.\right.\right.$$
$$\left.\left.\left.16l^4R^3-388l^2r^2R^3+100r^4R^3-320l^2rR^4+304r^3R^4+64l^2R^5+444r^2R^5+224rR^6-64R^7\right)\right)/$$
$$\left.\left.\left((-l+r+2R)^2(l+r+2R)^2(r+4R)^2\right)\right)\right\}$$

$$\left\{X7,\ \text{GERGONNE POINT},\ X69,\ \text{SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},\right.$$
$$\left.-\frac{16l^4R\left(-l^2r+r^3-l^2R+8r^2R+16rR^2\right)}{(r+4R)^2\left(-l^2+r^2+4rR\right)^2}\right\}$$

$$\left\{X7,\ \text{GERGONNE POINT},\ X70,\ \text{ISOGONAL CONJUGATE OF } X(26),\right.$$
$$-\left(\left(R\left(-12l^{10}r+40l^8r^3-48l^6r^5+24l^4r^7-4l^2r^9+169l^8r^2R-408l^6r^4R+\right.\right.\right.$$
$$310l^4r^6R-72l^2r^8R+r^{10}R+180l^8rR^2-1324l^6r^3R^2+1716l^4r^5R^2-596l^2r^7R^2+$$
$$24r^9R^2-1944l^6r^2R^3+5192l^4r^4R^3-2920l^2r^6R^3+248r^8R^3-1012l^6rR^4+$$
$$8832l^4r^3R^4-9004l^2r^5R^4+1440r^7R^4+16l^6R^5+7659l^4r^2R^5-17330l^2r^4R^5+$$
$$5139r^6R^5+2436l^4rR^6-19660l^2r^3R^6+11568r^5R^6-96l^4R^7-11468l^2r^2R^7+$$
$$\left.\left.16172r^4R^7-2328l^2rR^8+13200r^3R^8+144l^2R^9+5436r^2R^9+736rR^{10}-64R^{11}\right)\right)/$$
$$\left.\left.\left((r+4R)^2\left(l^4-2l^2r^2+r^4-8l^2rR+8r^3R-6l^2R^2+22r^2R^2+24rR^3+7R^4\right)^2\right)\right)\right\}$$

$$\left\{X7,\ \text{GERGONNE POINT},\ X71,\ \text{ISOGONAL CONJUGATE OF } X(27),\right.$$
$$-\left(\left(5l^6r^2+11l^4r^4+7l^2r^6+r^8+8l^6rR+72l^4r^3R+88l^2r^5R+24r^7R+108l^4r^2R^2+416l^2r^4R^2+\right.\right.$$
$$244r^6R^2-64l^4rR^3+912l^2r^3R^3+1360r^5R^3-192l^4R^4+880l^2r^2R^4+4480r^4R^4+128l^2rR^5+$$
$$\left.\left.8704r^3R^5-256l^2R^6+9216r^2R^6+4096rR^7\right)/\left((r+4R)^2\left(l^2+r^2+6rR+8R^2\right)^2\right)\right)\right\}$$

$$\left\{X7,\ \text{GERGONNE POINT},\ X72,\ \text{ISOGONAL CONJUGATE OF } X(28),\right.$$
$$\left.-\frac{2r^5-4l^2r^2R+27r^4R-32l^2rR^2+136r^3R^2-16l^2R^3+304r^2R^3+256rR^4}{R(r+4R)^2}\right\}$$

$$\left\{X7,\ \text{GERGONNE POINT},\ X73,\ \text{CROSSPOINT OF INCENTER AND CIRCUMCENTER},\right.$$
$$\left(r^2\left(-3l^6-5l^4r^2-l^2r^4+r^6+12l^4rR+24l^2r^3R+12r^5R+8l^4R^2+56l^2r^2R^2+48r^4R^2+\right.\right.$$
$$\left.\left.\left.80l^2rR^3+48r^3R^3+16l^2R^4-128r^2R^4-256rR^5\right)\right)/\left((r+4R)^2\left(l^2+r^2-2rR-4R^2\right)^2\right)\right\}$$

$$\left\{X7,\ \text{GERGONNE POINT},\ X74,\ \text{ISOGONAL CONJUGATE OF EULER INFINITY POINT},\right.$$
$$\left(9l^4r^2-6l^2r^4+r^6+12l^4rR-36l^2r^3R+16r^5R-108l^2r^2R^2+108r^4R^2-168l^2rR^3+\right.$$
$$\left.\left.400r^3R^3-144l^2R^4+868r^2R^4+1056rR^5+576R^6\right)/\left((r+4R)^2\left(-2l^2+2r^2+8rR+9R^2\right)\right)\right\}$$

$$\left\{X7,\ \text{GERGONNE POINT},\ X75,\ \text{ISOTOMIC CONJUGATE OF INCENTER},\right.$$
$$\left.-\frac{16l^4R\left(-l^2r+r^3-l^2R+8r^2R+16rR^2\right)}{(r+4R)^2\left(l^2+r^2+4rR\right)^2}\right\}$$

$$\left\{X7,\ \text{GERGONNE POINT},\ X76,\ \text{3rd BROCARD POINT},\right.$$
$$\left(16l^4R\left(l^6r+3l^4r^3+3l^2r^5+r^7+l^6R-18l^4r^2R-23l^2r^4R+12r^6R-24l^4rR^2+88l^2r^3R^2+32r^5R^2+\right.\right.$$
$$\left.\left.\left.144l^2r^2R^3-64r^4R^3-256r^3R^4\right)\right)/\left((r+4R)^2\left(l^4+2l^2r^2+r^4-8l^2rR+8r^3R+16r^2R^2\right)^2\right)\right\}$$

$$\left\{X7,\ \text{GERGONNE POINT},\ X77,\ \text{ISOGONAL CONJUGATE OF } X(33),\ \frac{l^4r^2\left(-3l^2+r^2+8rR+16R^2\right)}{(r+4R)^2\left(-l^2+rR+4R^2\right)^2}\right\}$$

$$\left\{\text{X7, GERGONNE POINT, X78, ISOGONAL CONJUGATE OF X(34)},\ \frac{-3 l^2 r^4+r^6+4 l^2 r^3 R+12 r^5 R-8 l^2 r^2 R^2+48 r^4 R^2+16 l^2 r R^3+48 r^3 R^3+16 l^2 R^4-128 r^2 R^4-256 r R^5}{(r-R)^2 (r+4 R)^2}\right\}$$

$$\left\{\text{X7, GERGONNE POINT, X79, ISOGONAL CONJUGATE OF X(35)},\ \frac{r^2 R \left(10 l^2 r+2 r^3-35 l^2 R+25 r^2 R+104 r R^2+144 R^3\right)}{(2 r+3 R)^2 (r+4 R)^2}\right\}$$

$$\left\{\text{X7, GERGONNE POINT, X80, REFLECTION OF INCENTER IN FEUERBACH POINT},\ -\frac{9 r^2 R \left(-3 l^2+r^2+8 r R+16 R^2\right)}{(2 r-R)\ (r+4 R)^2}\right\}$$

$$\left\{\text{X7, GERGONNE POINT, X81, CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},\ -\left(\left(r^2 \left(3 l^6-9 l^4 r^2+5 l^2 r^4+r^6-20 l^4 r R+12 l^2 r^3 R+16 r^5 R-8 l^4 R^2-16 l^2 r^2 R^2+100 r^4 R^2-48 l^2 r R^3+304 r^3 R^3-16 l^2 R^4+448 r^2 R^4+256 r R^5\right)\right) \Big/ \left((r+4 R)^2 \left(-l^2+r^2+r R\right)^2\right)\right)\right\}$$

$$\left\{\text{X7, GERGONNE POINT, X82, ISOGONAL CONJUGATE OF X(38)},\ -\frac{1}{(r+4 R)^2 \left(l^4-4 l^2 r^2+3 r^4-9 l^2 r R+19 r^3 R+28 r^2 R^2\right)^2} r^2 \left(3 l^{10}-29 l^8 r^2+90 l^6 r^4-102 l^4 r^6+35 l^2 r^8+3 r^{10}-76 l^8 r R+492 l^6 r^3 R-892 l^4 r^5 R+404 l^2 r^7 R+72 r^9 R-8 l^8 R^2+704 l^6 r^2 R^2-2488 l^4 r^4 R^2+1504 l^2 r^6 R^2+736 r^8 R^2+112 l^6 r R^3-2160 l^4 r^3 R^3+1152 l^2 r^5 R^3+4160 r^7 R^3-16 l^6 R^4+320 l^4 r^2 R^4-4672 l^2 r^4 R^4+14080 r^6 R^4+512 l^4 r R^5-9728 l^2 r^3 R^5+28672 r^5 R^5-5120 l^2 r^2 R^6+32768 r^4 R^6+16384 r^3 R^7\right)\right\}$$

$$\left\{\text{X7, GERGONNE POINT, X83, CEVAPOINT OF CENTROID AND SYMMEDIAN POINT},\ -\frac{1}{(r+4 R)^2 \left(5 l^4-6 l^2 r^2+5 r^4-40 l^2 r R+40 r^3 R+80 r^2 R^2\right)^2} 16 \left(4 l^{10} r^2-15 l^8 r^4+24 l^6 r^6-18 l^4 r^8+4 l^2 r^{10}+r^{12}-3 l^{10} r R-73 l^8 r^3 R+215 l^6 r^5 R-215 l^4 r^7 R+40 l^2 r^9 R+28 r^{11} R-l^{10} R^2+78 l^8 r^2 R^2+347 l^6 r^4 R^2-648 l^4 r^6 R^2-52 l^2 r^8 R^2+336 r^{10} R^2+40 l^8 r R^3-856 l^6 r^3 R^3+784 l^4 r^5 R^3-2112 l^2 r^7 R^3+2240 r^9 R^3-592 l^6 r^2 R^4+5376 l^4 r^4 R^4-10112 l^2 r^6 R^4+8960 r^8 R^4+4096 l^4 r^3 R^5-19456 l^2 r^5 R^5+21504 r^7 R^5-13312 l^2 r^4 R^6+28672 r^6 R^6+16384 r^5 R^7\right)\right\}$$

$$\left\{\text{X7, GERGONNE POINT, X84, ISOGONAL CONJUGATE OF X(40)},\ -\frac{(r+2 R)^2 \left(5 l^2 r^2+r^4-24 l^2 r R+12 r^3 R+16 l^2 R^2+44 r^2 R^2+32 r R^3-64 R^4\right)}{r^2 (r+4 R)^2}\right\}$$

$$\left\{\text{X7, GERGONNE POINT, X85, ISOTOMIC CONJUGATE OF X(9)},\ -\frac{16 l^4 R \left(-l^2 r+r^3-l^2 R+8 r^2 R+16 r R^2\right)}{(r+4 R)^2 \left(l^2+r^2+8 r R+16 R^2\right)^2}\right\}$$

$$\left\{\text{X7, GERGONNE POINT, X86, CEVAPOINT OF INCENTER AND CENTROID},\ -\frac{16 l^4 \left(4 l^2 r^2-3 l^2 r R+r^3 R-l^2 R^2+8 r^2 R^2+16 r R^3\right)}{(r+4 R)^2 \left(5 l^2+r^2+4 r R\right)^2}\right\}$$

$$\left\{\text{X7, GERGONNE POINT, X87, X(2)-CROSS CONJUGATE OF X(1)},\ \frac{1}{(r+4 R)^2 \left(l^4+2 l^2 r^2+r^4-20 l^2 r R+12 r^3 R+32 r^2 R^2\right)^2} r^2 \left(-3 l^{10}-11 l^8 r^2-14 l^6 r^4-6 l^4 r^6+l^2 r^8+r^{10}+120 l^8 r R+128 l^6 r^3 R-80 l^4 r^5 R-64 l^2 r^7 R+24 r^9 R-16 l^8 R^2-1472 l^6 r^2 R^2+1376 l^4 r^4 R^2-1088 l^2 r^6 R^2+176 r^8 R^2+640 l^6 r R^3+4864 l^4 r^3 R^3-3968 l^2 r^5 R^3+256 l^6 R^4-7680 l^4 r^2 R^4+5120 l^2 r^4 R^4-6400 r^6 R^4-6144 l^4 r R^5+40960 l^2 r^3 R^5-34816 r^5 R^5+36864 l^2 r^2 R^6-77824 r^4 R^6-65536 r^3 R^7\right)\right\}$$

$$\{X7,\ \text{GERGONNE POINT},\ X88,\ \text{ISOGONAL CONJUGATE OF } X(44),$$
$$-\left(\left(r^2\left(3l^6+23l^4r^2+45l^2r^4+9r^6-68l^4rR-252l^2r^3R+72r^5R+8l^4R^2+432l^2r^2R^2+36r^4R^2-144l^2rR^3-720r^3R^3-144l^2R^4-576r^2R^4+2304rR^5\right)\right)\Big/\left((r+4R)^2\left(l^2+3r^2-15rR\right)^2\right)\right)\}$$

$$\{X7,\ \text{GERGONNE POINT},\ X89,\ \text{ISOGONAL CONJUGATE OF } X(45),$$
$$-\left(\left(4r^2\left(3l^6-25l^4r^2+45l^2r^4+9r^6-20l^4rR+18l^2r^3R+126r^5R-4l^4R^2-135l^2r^2R^2+657r^4R^2-144l^2rR^3+1548r^3R^3-36l^2R^4+1584r^2R^4+576rR^5\right)\right)\Big/\left((r+4R)^2\left(-2l^2+6r^2-3rR\right)^2\right)\right)\}$$

$$\{X7,\ \text{GERGONNE POINT},\ X90,\ X(3)\text{-CROSS CONJUGATE OF } X(1),$$
$$-\frac{r^2(r+3R)^2\left(5l^2r^2+r^4-16l^2rR+12r^3R+3l^2R^2+47r^2R^2+56rR^3-16R^4\right)}{(r+4R)^2\left(r^2+2rR-R^2\right)^2}\}$$

$$\{X7,\ \text{GERGONNE POINT},\ X91,\ \text{ISOGONAL CONJUGATE OF } X(47),$$
$$-\left(\left(r^2R\left(-20l^6r+8l^4r^3-4l^2r^5-5l^6R+145l^4r^2R-55l^2r^4R+3r^6R+288l^4rR^2-368l^2r^3R^2+48r^5R^2+4l^4R^3-976l^2r^2R^3+300r^4R^3-864l^2rR^4+912r^3R^4+44l^2R^5+1340r^2R^5+736rR^6-64R^7\right)\right)\Big/\left((r+4R)^2\left(l^2r+r^3-l^2R+3r^2R+2rR^2+2R^3\right)^2\right)\right)\}$$

$$\{X7,\ \text{GERGONNE POINT},\ X92,\ \text{CEVAPOINT OF INCENTER AND CLAWSON POINT},$$
$$-\frac{1}{(r+4R)^2\left(l^2+r^2-4R^2\right)^2}16R\left(-l^6r-l^2r^5-l^6R+12l^4r^2R-9l^2r^4R+r^6R+32l^4rR^2-60l^2r^3R^2+16r^5R^2+8l^4R^3-176l^2r^2R^3+100r^4R^3-176l^2rR^4+304r^3R^4-16l^2R^5+448r^2R^5+256rR^6\right)\}$$

$$\{X7,\ \text{GERGONNE POINT},\ X93,\ \text{ISOGONAL CONJUGATE OF } X(49),$$
$$-\left(\left(4R\left(-4l^{10}r-12l^8r^3-12l^6r^5-4l^4r^7-4l^{10}R+70l^8r^2R+90l^6r^4R-46l^4r^6R+2l^2r^8R+146l^8rR^2-294l^6r^3R^2-162l^4r^5R^2+22l^2r^7R^2+40l^8R^3-1274l^6r^2R^3+502l^4r^4R^3+26l^2r^6R^3+2r^8R^3-1078l^6rR^4+3664l^4r^3R^4-658l^2r^5R^4+40r^7R^4-128l^6R^5+5754l^4r^2R^5-3806l^2r^4R^5+332r^6R^5+2938l^4rR^6-8578l^2r^3R^6+1472r^5R^6+136l^4R^7-8506l^2r^2R^7+3730r^4R^7-3146l^2rR^8+5336r^3R^8-28l^2R^9+3935r^2R^9+1144rR^{10}-16R^{11}\right)\right)\Big/\left((r+4R)^2\left(l^4+2l^2r^2+r^4-8l^2rR+8r^3R-8l^2R^2+24r^2R^2+32rR^3+13R^4\right)^2\right)\right)\}$$

$$\{X7,\ \text{GERGONNE POINT},\ X94,\ \text{ISOGONAL CONJUGATE OF } X(50),$$
$$-\left(\left(4R\left(-4l^{10}r-12l^8r^3-12l^6r^5-4l^4r^7-4l^{10}R+66l^8r^2R+86l^6r^4R-42l^4r^6R+6l^2r^8R+156l^8rR^2-256l^6r^3R^2-212l^4r^5R^2+72l^2r^7R^2+48l^8R^3-1431l^6r^2R^3+427l^4r^4R^3+219l^2r^6R^3+9r^8R^3-1380l^6rR^4+4792l^4r^3R^4-912l^2r^5R^4+180r^7R^4-216l^6R^5+8772l^4r^2R^5-7794l^2r^4R^5+1494r^6R^5+5076l^4rR^6-19752l^2r^3R^6+6624r^5R^6+432l^4R^7-21123l^2r^2R^7+16785r^4R^7-8424l^2rR^8+24012r^3R^8-324l^2R^9+17712r^2R^9+5184rR^{10}\right)\right)\Big/\left((r+4R)^2\left(l^4+2l^2r^2+r^4-8l^2rR+8r^3R-12l^2R^2+28r^2R^2+48rR^3+27R^4\right)^2\right)\right)\}$$

$$\{X7,\ \text{GERGONNE POINT},\ X95,\ \text{CEVAPOINT OF CENTROID AND CIRCUMCENTER},$$
$$-\left(\left(16l^4\left(4l^4r^4+72l^2r^6+4r^8-l^6rR-15l^4r^3R+21l^2r^5R+35r^7R-l^6R^2+2l^4r^2R^2+167l^2r^4R^2+20r^6R^2+32l^4rR^3+224l^2r^3R^3-528r^5R^3+8l^4R^4-184l^2r^2R^4-1312r^4R^4-176l^2rR^5-240r^3R^5-16l^2R^6+640r^2R^6+256rR^7\right)\right)\Big/\left((r+4R)^2\left(l^4+18l^2r^2+r^4-8l^2rR+8r^3R-4l^2R^2+20r^2R^2+16rR^3\right)^2\right)\right)\}$$

$$\{X7,\ \text{GERGONNE POINT},\ X96,\ \text{ISOGONAL CONJUGATE OF } X(52),$$
$$\frac{1}{(r+4R)^2\left(l^4-14l^2r^2+r^4-8l^2rR+8r^3R+16r^2R^2-4R^4\right)^2}$$
$$4\left(-2l^{10}r^2+40l^8r^4-172l^6r^6+40l^4r^8-2l^2r^{10}-6l^{10}rR+124l^8r^3R-472l^6r^5R+388l^4r^7R-34l^2r^9R-4l^{10}R^2+175l^8r^2R^2-1332l^6r^4R^2+1598l^4r^6R^2-280l^2r^8R^2+3r^{10}R^2+136l^8rR^3-2312l^6r^3R^3+4864l^4r^5R^3-1640l^2r^7R^3+72r^9R^3+48l^8R^4-1976l^6r^2R^4+11312l^4r^4R^4-7208l^2r^6R^4+736r^8R^4-944l^6rR^5+13520l^4r^3R^5-20928l^2r^5R^5+4160r^7R^5-224l^6R^6+8304l^4r^2R^6-35232l^2r^4R^6+14112r^6R^6+2880l^4rR^7-31264l^2r^3R^7+29184r^5R^7+512l^4R^8-14944l^2r^2R^8+35872r^4R^8-4064l^2rR^9+24960r^3R^9-576l^2R^{10}+9744r^2R^{10}+2176rR^{11}+256R^{12}\right)\}$$

$$\{X7,\ \text{GERGONNE POINT},\ X97,\ \text{ISOGONAL CONJUGATE OF } X(53),$$
$$-\Big(\big(3\,l^{10}\,r^2-43\,l^8\,r^4+158\,l^6\,r^6-54\,l^4\,r^8-l^2\,r^{10}+r^{12}-76\,l^8\,r^3\,R+568\,l^6\,r^5\,R-464\,l^4\,r^7\,R-56\,l^2\,r^9\,R+$$
$$28\,r^{11}\,R-40\,l^8\,r^2\,R^2+808\,l^6\,r^4\,R^2-1340\,l^4\,r^6\,R^2-752\,l^2\,r^8\,R^2+348\,r^{10}\,R^2+8\,l^8\,r\,R^3+432\,l^6\,r^3\,R^3-$$
$$1096\,l^4\,r^5\,R^3-4752\,l^2\,r^7\,R^3+2528\,r^9\,R^3-140\,l^6\,r^2\,R^4+1804\,l^4\,r^4\,R^4-16\,948\,l^2\,r^6\,R^4+$$
$$11\,892\,r^8\,R^4-160\,l^6\,r\,R^5+4624\,l^4\,r^3\,R^5-36\,544\,l^2\,r^5\,R^5+37\,904\,r^7\,R^5-16\,l^6\,R^6+3776\,l^4\,r^2\,R^6-$$
$$48\,592\,l^2\,r^4\,R^6+83\,168\,r^6\,R^6+1280\,l^4\,r\,R^7-39\,296\,l^2\,r^3\,R^7+124\,928\,r^5\,R^7+128\,l^4\,R^8-$$
$$18\,240\,l^2\,r^2\,R^8+124\,992\,r^4\,R^8-4096\,l^2\,r\,R^9+78\,592\,r^3\,R^9-256\,l^2\,R^{10}+27\,648\,r^2\,R^{10}+4096\,r\,R^{11}\big)\,/$$
$$\big((r+4\,R)^2\,\big(l^4-6\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-7\,l^2\,R^2+23\,r^2\,R^2+28\,r\,R^3+12\,R^4\big)^2\big)\Big)\}$$

$$\{X7,\ \text{GERGONNE POINT},\ X98,\ \text{TarryPoint},$$
$$\big(4\,\big(-2\,l^6\,r^2+12\,l^4\,r^4-2\,l^2\,r^6-6\,l^6\,r\,R+24\,l^4\,r^3\,R-18\,l^2\,r^5\,R-4\,l^6\,R^2+$$
$$65\,l^4\,r^2\,R^2-62\,l^2\,r^4\,R^2+r^6\,R^2+72\,l^4\,r\,R^3-152\,l^2\,r^3\,R^3+16\,r^5\,R^3+$$
$$16\,l^4\,R^4-288\,l^2\,r^2\,R^4+96\,r^4\,R^4-128\,l^2\,r\,R^5+256\,r^3\,R^5+256\,r^2\,R^6\big)\big)\,/$$
$$\big((r+4\,R)^2\,\big(l^4-14\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R+16\,r^2\,R^2\big)\big)\}$$

$$\left\{X7,\ \text{GERGONNE POINT},\ X99,\ \text{STEINER POINT},\ \frac{16\,l^4\,\big(4\,r^4+l^2\,r\,R+5\,r^3\,R+l^2\,R^2-12\,r^2\,R^2-16\,r\,R^3\big)}{(r+4\,R)^2\,\big(l^4-14\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R+16\,r^2\,R^2\big)}\right\}$$

$$\{X7,\ \text{GERGONNE POINT},\ X100,\ \text{ANTICOMPLEMENT OF FEUERBACH POINT},$$
$$\frac{4\,\big(-2\,l^2\,r^3-2\,l^2\,r^2\,R+r^4\,R-4\,l^2\,r\,R^2+12\,r^3\,R^2-4\,l^2\,R^3+48\,r^2\,R^3+64\,r\,R^4\big)}{(2\,r-R)\,(r+4\,R)^2}\}$$

$$\left\{X8,\ \text{NAGEL POINT},\ X9,\ \text{MITTENPUNKT},\ \frac{-l^2\,r^2+3\,r^4+20\,r^3\,R+4\,l^2\,R^2+16\,r^2\,R^2-64\,r\,R^3}{(r+4\,R)^2}\right\}$$

$$\left\{X8,\ \text{NAGEL POINT},\ X10,\ \text{SPIEKER CENTER},\ \frac{1}{4}\,\big(l^2+5\,r^2-16\,r\,R\big)\right\}$$

$$\left\{X8,\ \text{NAGEL POINT},\ X11,\ \text{FEUERBACH POINT},\ \frac{l^2\,r+3\,r^3-l^2\,R-20\,r^2\,R+16\,r\,R^2}{2\,r-R}\right\}$$

$$\{X8,\ \text{NAGEL POINT},\ X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),$$
$$\frac{2\,l^2\,r^2+6\,r^4+3\,l^2\,r\,R-21\,r^3\,R+l^2\,R^2-40\,r^2\,R^2-16\,r\,R^3}{(2\,r+R)^2}\}$$

$$\{X8,\ \text{NAGEL POINT},\ X13,\ \text{FERMAT POINT},$$
$$\frac{3\,l^4+4\,\sqrt{3}\,l^3\,r+10\,l^2\,r^2+4\,\sqrt{3}\,l\,r^3-9\,r^4-48\,l^2\,r\,R-56\,\sqrt{3}\,l\,r^2\,R-24\,r^3\,R+48\,r^2\,R^2}{3\,\big(l^2+2\,\sqrt{3}\,l\,r-r^2-4\,r\,R\big)}\}$$

$$\{X8,\ \text{NAGEL POINT},\ X14,\ \text{2nd ISOGONIC CENTER},$$
$$\frac{3\,l^4-4\,\sqrt{3}\,l^3\,r+10\,l^2\,r^2-4\,\sqrt{3}\,l\,r^3-9\,r^4-48\,l^2\,r\,R+56\,\sqrt{3}\,l\,r^2\,R-24\,r^3\,R+48\,r^2\,R^2}{3\,\big(l^2-2\,\sqrt{3}\,l\,r-r^2-4\,r\,R\big)}\}$$

$$\{X8,\ \text{NAGEL POINT},\ X15,\ \text{1st ISODYNAMIC POINT},$$
$$\frac{l^4+6\,l^2\,r^2+8\,\sqrt{3}\,l\,r^3-3\,r^4-16\,l^2\,r\,R-8\,\sqrt{3}\,l\,r^2\,R-8\,r^3\,R+16\,r^2\,R^2}{l^2+2\,\sqrt{3}\,l\,r-r^2-4\,r\,R}\}$$

$$\{X8,\ \text{NAGEL POINT},\ X16,\ \text{2nd ISODYNAMIC POINT},$$
$$\frac{l^4+6\,l^2\,r^2-8\,\sqrt{3}\,l\,r^3-3\,r^4-16\,l^2\,r\,R+8\,\sqrt{3}\,l\,r^2\,R-8\,r^3\,R+16\,r^2\,R^2}{l^2-2\,\sqrt{3}\,l\,r-r^2-4\,r\,R}\}$$

$$\left\{\text{X8, NAGEL POINT, X17, 1st NAPOLEON POINT,}\right.$$
$$\left(3\left(3 l^6+14\sqrt{3}\, l^5 r+63 l^4 r^2+60\sqrt{3}\, l^3 r^3+165 l^2 r^4-50\sqrt{3}\, l r^5+9 r^6-60 l^4 r R-248\sqrt{3}\, l^3 r^2 R-800 l^2 r^3 R-88\sqrt{3}\, l r^4 R+60 r^5 R+208 l^2 r^2 R^2+448\sqrt{3}\, l r^3 R^2+48 r^4 R^2-192 r^3 R^3\right)\right)\Big/\left(3 l^2+10\sqrt{3}\, l r-3 r^2-12 r R\right)^2\Big\}$$

$$\left\{\text{X8, NAGEL POINT, X18, 2nd NAPOLEON POINT,}\right.$$
$$\left(3\left(3 l^6-14\sqrt{3}\, l^5 r+63 l^4 r^2-60\sqrt{3}\, l^3 r^3+165 l^2 r^4+50\sqrt{3}\, l r^5+9 r^6-60 l^4 r R+248\sqrt{3}\, l^3 r^2 R-800 l^2 r^3 R+88\sqrt{3}\, l r^4 R+60 r^5 R+208 l^2 r^2 R^2-448\sqrt{3}\, l r^3 R^2+48 r^4 R^2-192 r^3 R^3\right)\right)\Big/\left(3 l^2-10\sqrt{3}\, l r-3 r^2-12 r R\right)^2\Big\}$$

$$\left\{\text{X8, NAGEL POINT, X19, CLAWSON POINT,}\right.$$
$$-\frac{1}{\left(l^2-r^2-6 r R-8 R^2\right)^2}\left(l^6-5 l^4 r^2+7 l^2 r^4-3 r^6-8 l^4 r R+40 l^2 r^3 R-32 r^5 R-4 l^4 R^2+48 l^2 r^2 R^2-108 r^4 R^2-16 l^2 r R^3-80 r^3 R^3-16 l^2 R^4+192 r^2 R^4+256 r R^5\right)\Big\}$$

$$\left\{\text{X8, NAGEL POINT, X20, DE LONGCHAMPS POINT, } -4\left(l^2-3 r^2-4 r R-4 R^2\right)\right\}$$

$$\left\{\text{X8, NAGEL POINT, X21, SCHIFFLER POINT, } \frac{4\left(4 r^4+l^2 r R+5 r^3 R+l^2 R^2-12 r^2 R^2-16 r R^3\right)}{(2 r+3 R)^2}\right\}$$

$$\left\{\text{X8, NAGEL POINT, X22, ExeterPoint, } \frac{1}{\left(l^2-r^2-4 r R-3 R^2\right)^2}\right.$$
$$\left(4 l^4 r^2-8 l^2 r^4+4 r^6-4 l^4 r R-24 l^2 r^3 R+28 r^5 R-l^4 R^2+14 l^2 r^2 R^2+51 r^4 R^2+36 l^2 r R^3-20 r^3 R^3+4 l^2 R^4-108 r^2 R^4-64 r R^5\right)\Big\}$$

$$\left\{\text{X8, NAGEL POINT, X23, FarOutPoint, } \frac{4\left(2 l^2 r^2-2 r^4-2 l^2 r R-6 r^3 R-l^2 R^2+3 r^2 R^2+16 r R^3\right)}{2 l^2-2 r^2-8 r R-9 R^2}\right\}$$

$$\left\{\text{X8, NAGEL POINT, X24, PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE,}\right.$$
$$\frac{1}{\left(l^2-r^2-4 r R-5 R^2\right)^2}\left(4 l^4 r^2-8 l^2 r^4+4 r^6-4 l^4 r R-24 l^2 r^3 R+28 r^5 R-l^4 R^2-2 l^2 r^2 R^2+67 r^4 R^2+52 l^2 r R^3+28 r^3 R^3+4 l^2 R^4-116 r^2 R^4-136 r R^5+4 R^6\right)\Big\}$$

$$\left\{\text{X8, NAGEL POINT, X25, HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES,}\right.$$
$$\frac{1}{\left(l^2-r^2-4 r R-6 R^2\right)^2}\left(4 l^4 r^2-8 l^2 r^4+4 r^6-4 l^4 r R-24 l^2 r^3 R+28 r^5 R-3 l^4 R^2-2 l^2 r^2 R^2+69 r^4 R^2+80 l^2 r R^3+16 r^3 R^3+16 l^2 R^4-192 r^2 R^4-256 r R^5\right)\Big\}$$

$$\left\{\text{X8, NAGEL POINT, X26, CIRCUMCENTER OF THE TANGENTIAL TRIANGLE,}\right.$$
$$\left(4 l^4 r^2-8 l^2 r^4+4 r^6-4 l^4 r R-24 l^2 r^3 R+28 r^5 R-l^4 R^2+6 l^2 r^2 R^2+59 r^4 R^2+44 l^2 r R^3+4 r^3 R^3+4 l^2 R^4-116 r^2 R^4-96 r R^5+R^6\right)\Big/\left((l-r-2 R)^2\,(l+r+2 R)^2\right)\Big\}$$

$$\left\{\text{X8, NAGEL POINT, X27, CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER,}\right.$$
$$-\left(\left(4\left(l^6-3 l^4 r^2+7 l^2 r^4-5 r^6-4 l^4 r R+20 l^2 r^3 R-24 r^5 R-4 l^4 R^2-8 l^2 r^2 R^2+8 r^4 R^2-48 l^2 r R^3+224 r^3 R^3-16 l^2 R^4+432 r^2 R^4+256 r R^5\right)\right)\Big/\left(l^2-3 r^2-12 r R-12 R^2\right)^2\right)\Big\}$$

$$\left\{\text{X8, NAGEL POINT, X28, CEVAPOINT OF X(19) AND X(25),}\right.$$
$$\frac{1}{\left(l^2-r^2-5 r R-6 R^2\right)^2}\left(4 l^4 r^2-8 l^2 r^4+4 r^6-6 l^4 r R-24 l^2 r^3 R+30 r^5 R-3 l^4 R^2+26 l^2 r^2 R^2+57 r^4 R^2+92 l^2 r R^3-68 r^3 R^3+16 l^2 R^4-316 r^2 R^4-256 r R^5\right)\Big\}$$

$$\left\{\text{X8, NAGEL POINT, X29, CEVAPOINT OF INCENTER AND ORTHOCENTER,}\right.$$
$$\frac{1}{\left(3 l^2 - r^2 - 8 r R - 12 R^2\right)^2} 4 \left(l^6 + 5 l^4 r^2 - 9 l^2 r^4 + 3 r^6 - 20 l^4 r R - 36 l^2 r^3 R + 32 r^5 R - 8 l^4 R^2 + 32 l^2 r^2 R^2 + 108 r^4 R^2 + 144 l^2 r R^3 + 80 r^3 R^3 + 16 l^2 R^4 - 192 r^2 R^4 - 256 r R^5\right)\Big\}$$

$$\left\{\text{X8, NAGEL POINT, X30, EulerInfinityPoint, } \infty\right\}$$

$$\left\{\text{X8, NAGEL POINT, X31, SecondPowerPoint,}\right.$$
$$\left.\frac{l^6 + 3 l^4 r^2 - 29 l^2 r^4 + 33 r^6 - 24 l^4 r R + 8 l^2 r^3 R + 96 r^5 R + 144 l^2 r^2 R^2 - 64 r^4 R^2 - 256 r^3 R^3}{\left(l^2 - 3 r^2 - 6 r R\right)^2}\right\}$$

$$\left\{\text{X8, NAGEL POINT, X32, ThirdPowerPoint,}\right.$$
$$\left(l^{10} - l^8 r^2 - 54 l^6 r^4 + 158 l^4 r^6 - 43 l^2 r^8 + 3 r^{10} - 28 l^8 r R + 88 l^6 r^3 R + 240 l^4 r^5 R - 344 l^2 r^7 R + 44 r^9 R + 244 l^6 r^2 R^2 - 504 l^4 r^4 R^2 - 588 l^2 r^6 R^2 + 224 r^8 R^2 - 928 l^4 r^3 R^3 + 800 l^2 r^5 R^3 + 384 r^7 R^3 + 1600 l^2 r^4 R^4 - 256 r^6 R^4 - 1024 r^5 R^5\right) \Big/ \left(\left(l^2 - 2 l r - r^2 - 4 r R\right)^2 \left(l^2 + 2 l r - r^2 - 4 r R\right)^2\right)\Big\}$$

$$\left\{\text{X8, NAGEL POINT, X33, PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES,}\right.$$
$$\frac{1}{\left(l^2 - r^2 - 2 r R - 4 R^2\right)^2} \left(l^6 + 3 l^4 r^2 - 9 l^2 r^4 + 5 r^6 - 20 l^4 r R + 20 r^5 R - 8 l^4 R^2 + 40 l^2 r^2 R^2 + 32 r^4 R^2 + 144 l^2 r R^3 - 48 r^3 R^3 + 16 l^2 R^4 - 192 r^2 R^4 - 256 r R^5\right)\Big\}$$

$$\left\{\text{X8, NAGEL POINT, X34, X(4)-BETH CONJUGATE OF X(4),}\right.$$
$$\frac{1}{\left(l^2 - r^2 - 6 r R - 4 R^2\right)^2} \left(l^6 + 3 l^4 r^2 - 9 l^2 r^4 + 5 r^6 - 28 l^4 r R + 28 r^5 R - 8 l^4 R^2 + 184 l^2 r^2 R^2 - 48 r^4 R^2 + 176 l^2 r R^3 - 464 r^3 R^3 + 16 l^2 R^4 - 640 r^2 R^4 - 256 r R^5\right)\Big\}$$

$$\left\{\text{X8, NAGEL POINT, X35, \{X(1),X(3)\}-HARMONIC CONJUGATE OF X(36),}\right.$$
$$\left.\frac{16 r^4 + 2 l^2 r R + 2 r^3 R + l^2 R^2 - 27 r^2 R^2 - 16 r R^3}{(2 r + R)^2}\right\}$$

$$\left\{\text{X8, NAGEL POINT, X36, INVERSE-IN-CIRCUMCIRCLE OF INCENTER, } \frac{8 r^3 - l^2 R - 13 r^2 R + 16 r R^2}{2 r - R}\right\}$$

$$\left\{\text{X8, NAGEL POINT, X37, CrosspointOfIncenterAndCentroid,}\right.$$
$$\left.\frac{l^6 + 5 l^4 r^2 + 7 l^2 r^4 + 3 r^6 - 12 l^4 r R + 16 l^2 r^3 R + 20 r^5 R - 60 l^2 r^2 R^2 + 16 r^4 R^2 - 64 r^3 R^3}{\left(l^2 + r^2 + 4 r R\right)^2}\right\}$$

$$\left\{\text{X8, NAGEL POINT, X38, CROSSPOINT OF X(1) AND X(75),}\right.$$
$$\left.\frac{l^6 + 3 l^4 r^2 + 3 l^2 r^4 + r^6 - 24 l^4 r R - 8 l^2 r^3 R - 16 r^5 R + 144 l^2 r^2 R^2 - 256 r^3 R^3}{\left(l^2 + r^2 - 2 r R\right)^2}\right\}$$

$$\left\{\text{X8, NAGEL POINT, X39, BrocardMidpoint,}\right.$$
$$\left(l^{10} + 7 l^8 r^2 + 18 l^6 r^4 + 22 l^4 r^6 + 13 l^2 r^8 + 3 r^{10} - 28 l^8 r R - 104 l^6 r^3 R - 80 l^4 r^5 R + 40 l^2 r^7 R + 44 r^9 R + 244 l^6 r^2 R^2 + 392 l^4 r^4 R^2 - 204 l^2 r^6 R^2 + 224 r^8 R^2 - 928 l^4 r^3 R^3 - 224 l^2 r^5 R^3 + 384 r^7 R^3 + 1600 l^2 r^4 R^4 - 256 r^6 R^4 - 1024 r^5 R^5\right) \Big/ \left(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\right)^2\Big\}$$

$$\left\{\text{X8, NAGEL POINT, X40, BEVAN POINT, } -l^2 + 3 r^2 + 4 r R + 4 R^2\right\}$$

$$\left\{\text{X8, NAGEL POINT, X41, X(6)-CEVA CONJUGATE OF X(31),}\right.$$
$$\left(3 l^6 r^2 + 41 l^4 r^4 - 23 l^2 r^6 + 3 r^8 + 8 l^6 r R - 12 l^4 r^3 R - 168 l^2 r^5 R + 44 r^7 R + 4 l^6 R^2 - 152 l^4 r^2 R^2 - 204 l^2 r^4 R^2 + 224 r^6 R^2 - 96 l^4 r R^3 + 544 l^2 r^3 R^3 + 384 r^5 R^3 + 576 l^2 r^2 R^4 - 256 r^4 R^4 - 1024 r^3 R^5\right) \Big/ \left(3 l^2 r - r^3 + 2 l^2 R - 8 r^2 R - 16 r R^2\right)^2\Big\}$$

$$\left\{\text{X8, NAGEL POINT, X42, CROSSPOINT OF INCENTER AND SYMMEDIAN POINT, } \frac{\left(l^2 + r^2\right)^2 \left(l^2 + 5 r^2 - 16 r R\right)}{\left(l^2 + r^2 - 2 r R\right)^2}\right\}$$

$$\left\{\text{X8, NAGEL POINT, X43, X(6)-CEVA CONJUGATE OF X(1)}, \frac{\left(l^2+5r^2-16rR\right)\left(l^2+r^2-4rR\right)^2}{\left(l^2+r^2-8rR\right)^2}\right\}$$

$$\left\{\text{X8, NAGEL POINT, X44, X(6)-LINE CONJUGATE OF X(1)},\right.$$
$$\left.\frac{l^6+5l^4r^2-33l^2r^4+27r^6-28l^4rR-48l^2r^3R+180r^5R+228l^2r^2R^2+144r^4R^2-576r^3R^3}{\left(l^2-3r^2-12rR\right)^2}\right\}$$

$$\left\{\text{X8, NAGEL POINT, X45, X(9)-BETH CONJUGATE OF X(1)},\right.$$
$$\left.\frac{l^6+5l^4r^2+15l^2r^4+27r^6-4l^4rR+48l^2r^3R+180r^5R-156l^2r^2R^2+144r^4R^2-576r^3R^3}{\left(l^2+3r^2+12rR\right)^2}\right\}$$

$$\left\{\text{X8, NAGEL POINT, X46, X(4)-CEVA CONJUGATE OF X(1)}, \frac{-l^2r^2+3r^4-4r^3R+l^2R^2+13r^2R^2-16rR^3}{(r-R)^2}\right\}$$

$$\left\{\text{X8, NAGEL POINT, X47, X(110)-BETH CONJUGATE OF X(34)},\right.$$
$$\frac{1}{\left(l^2-3r^2-6rR-2R^2\right)^2}\left(l^6+3l^4r^2-29l^2r^4+33r^6-24l^4rR+8l^2r^3R+96r^5R-\right.$$
$$\left.\left.4l^4R^2+128l^2r^2R^2-12r^4R^2+80l^2rR^3-256r^3R^3+4l^2R^4-236r^2R^4-64rR^5\right)\right\}$$

$$\left\{\text{X8, NAGEL POINT, X48, CROSSPOINT OF X(1) AND X(63)},\right.$$
$$\frac{1}{\left(3l^2-r^2-6rR-8R^2\right)^2}\left(3l^6+41l^4r^2-23l^2r^4+3r^6-72l^4rR-104l^2r^3R+32r^5R-\right.$$
$$\left.\left.12l^4R^2+16l^2r^2R^2+108r^4R^2+272l^2rR^3+80r^3R^3+16l^2R^4-192r^2R^4-256rR^5\right)\right\}$$

$$\left\{\text{X8, NAGEL POINT, X49, CENTER OF SINE-TRIPLE-ANGLE CIRCLE},\right.$$
$$\frac{1}{\left(2l^2-2r^2-8rR-7R^2\right)^2}\left(2l^6+18l^4r^2-34l^2r^4+14r^6-48l^4rR-80l^2r^3R+96r^5R-\right.$$
$$\left.\left.12l^4R^2+120l^2r^2R^2+180r^4R^2+252l^2rR^3-68r^3R^3+18l^2R^4-470r^2R^4-324rR^5+R^6\right)\right\}$$

$$\left\{\text{X8, NAGEL POINT, X50, X(74)-CEVA CONJUGATE OF X(184)},\right.$$
$$\frac{1}{\left(l^4-6l^2r^2+r^4-8l^2rR+8r^3R-3l^2R^2+19r^2R^2+12rR^3\right)^2}$$
$$\left(l^{10}-l^8r^2-54l^6r^4+158l^4r^6-43l^2r^8+3r^{10}-28l^8rR+88l^6r^3R+240l^4r^5R-\right.$$
$$344l^2r^7R+44r^9R-6l^8R^2+232l^6r^2R^2-300l^4r^4R^2-744l^2r^6R^2+242r^8R^2+$$
$$144l^6rR^3-1072l^4r^3R^3+128l^2r^5R^3+576r^7R^3+9l^6R^4-843l^4r^2R^4+1831l^2r^4R^4+$$
$$\left.\left.347r^6R^4-180l^4rR^5+1872l^2r^3R^5-844r^5R^5+612l^2r^2R^6-1392r^4R^6-576r^3R^7\right)\right\}$$

$$\left\{\text{X8, NAGEL POINT, X51, CENTROID OF ORTHIC TRIANGLE},\right.$$
$$\left.-\frac{-5l^4+6l^2r^2-5r^4+64l^2rR-16r^3R-16l^2R^2-64r^2R^2+256rR^3}{36R^2}\right\}$$

$$\left\{\text{X8, NAGEL POINT, X52, ORTHOCENTER OF ORTHIC TRIANGLE},\right.$$
$$\left.\frac{3l^4-10l^2r^2+3r^4-32l^2rR+16r^3R-4l^2R^2+36r^2R^2+4R^4}{4R^2}\right\}$$

$$\left\{\text{X8, NAGEL POINT, X53, SYMMEDIAN POINT OF ORTHIC TRIANGLE},\right.$$
$$\frac{1}{\left(l^4-6l^2r^2+r^4-8l^2rR+8r^3R-4l^2R^2+20r^2R^2+16rR^3\right)^2}$$
$$\left(l^{10}-5l^8r^2-10l^6r^4+34l^4r^6-23l^2r^8+3r^{10}-28l^8rR+152l^6r^3R-144l^4r^5R-\right.$$
$$152l^2r^7R+44r^9R-8l^8R^2+244l^6r^2R^2-664l^4r^4R^2-140l^2r^6R^2+248r^8R^2+$$
$$192l^6rR^3-1312l^4r^3R^3+864l^2r^5R^3+640r^7R^3+16l^6R^4-1104l^4r^2R^4+2384l^2r^4R^4+$$
$$\left.\left.560r^6R^4-320l^4rR^5+2432l^2r^3R^5-704r^5R^5+1088l^2r^2R^6-1792r^4R^6-1024r^3R^7\right)\right\}$$

$$\left\{\text{X8, NAGEL POINT, X54, KosnitaPoint, } \frac{1}{\left(2 l^2-2 r^2-8 r R-5 R^2\right)^2}\left(2 l^6+18 l^4 r^2-34 l^2 r^4+14 r^6-48 l^4 r R-80 l^2 r^3 R+96 r^5 R-7 l^4 R^2+138 l^2 r^2 R^2+161 r^4 R^2+164 l^2 r R^3-92 r^3 R^3+4 l^2 R^4-308 r^2 R^4-136 r R^5+4 R^6\right)\right\}$$

$$\left\{\text{X8, NAGEL POINT, X55, INSIMILICENTER(CIRCUMCIRCLE, INCIRCLE), } \frac{4 r^4+l^2 r R+5 r^3 R+l^2 R^2-12 r^2 R^2-16 r R^3}{(r+R)^2}\right\}$$

$$\left\{\text{X8, NAGEL POINT, X56, EXSIMILICENTER(CIRCUMCIRCLE, INCIRCLE), } \frac{4 r^4-l^2 r R-13 r^3 R+l^2 R^2+24 r^2 R^2-16 r R^3}{(r-R)^2}\right\}$$

$$\left\{\text{X8, NAGEL POINT, X57, ISOGONAL CONJUGATE OF X(9), } \frac{-l^2 r^2+3 r^4-12 r^3 R+4 l^2 R^2+32 r^2 R^2-64 r R^3}{(r-2 R)^2}\right\}$$

$$\left\{\text{X8, NAGEL POINT, X58, ISOGONAL CONJUGATE OF X(10), } \frac{l^6+3 l^4 r^2-29 l^2 r^4+33 r^6-20 l^4 r R+24 l^2 r^3 R+44 r^5 R+68 l^2 r^2 R^2-44 r^4 R^2-64 r^3 R^3}{\left(l^2-3 r^2-4 r R\right)^2}\right\}$$

$$\left\{\text{X8, NAGEL POINT, X59, ISOGONAL CONJUGATE OF X(11), } \left(l^6 r+9 l^4 r^3-17 l^2 r^5+7 r^7-l^6 R-30 l^4 r^2 R-49 l^2 r^4 R+60 r^6 R+16 l^4 r R^2+96 l^2 r^3 R^2+128 r^5 R^2+8 l^4 R^3+72 l^2 r^2 R^3-64 r^4 R^3-144 l^2 r R^4-240 r^3 R^4-16 l^2 R^5+128 r^2 R^5+256 r R^6\right) \Big/ \left((2 r-R)\left(-l^2+r^2+5 r R+4 R^2\right)^2\right)\right\}$$

$$\left\{\text{X8, NAGEL POINT, X60, ISOGONAL CONJUGATE OF X(12), } \left(2 l^6 r^2+18 l^4 r^4-34 l^2 r^6+14 r^8+3 l^6 r R-27 l^4 r^3 R-79 l^2 r^5 R+79 r^7 R+l^6 R^2-62 l^4 r^2 R^2+57 l^2 r^4 R^2+136 r^6 R^2-24 l^4 r R^3+280 l^2 r^3 R^3-32 r^5 R^3+144 l^2 r^2 R^4-320 r^4 R^4-256 r^3 R^5\right) \Big/ \left(2 l^2 r-2 r^3+l^2 R-7 r^2 R-7 r R^2\right)^2\right\}$$

$$\left\{\text{X8, NAGEL POINT, X61, ISOGONAL CONJUGATE OF X(17), } \left(3\left(3 l^6+2\sqrt{3}\, l^5 r+15 l^4 r^2+20\sqrt{3}\, l^3 r^3-11 l^2 r^4-14\sqrt{3}\, l r^5+9 r^6-60 l^4 r R-40\sqrt{3}\, l^3 r^2 R-64 l^2 r^3 R-40\sqrt{3}\, l r^4 R+60 r^5 R+208 l^2 r^2 R^2+64\sqrt{3}\, l r^3 R^2+48 r^4 R^2-192 r^3 R^3\right)\right) \Big/ \left(3 l^2+2\sqrt{3}\, l r-3 r^2-12 r R\right)^2\right\}$$

$$\left\{\text{X8, NAGEL POINT, X62, ISOGONAL CONJUGATE OF X(18), } \left(3\left(3 l^6-2\sqrt{3}\, l^5 r+15 l^4 r^2-20\sqrt{3}\, l^3 r^3-11 l^2 r^4+14\sqrt{3}\, l r^5+9 r^6-60 l^4 r R+40\sqrt{3}\, l^3 r^2 R-64 l^2 r^3 R+40\sqrt{3}\, l r^4 R+60 r^5 R+208 l^2 r^2 R^2-64\sqrt{3}\, l r^3 R^2+48 r^4 R^2-192 r^3 R^3\right)\right) \Big/ \left(3 l^2-2\sqrt{3}\, l r-3 r^2-12 r R\right)^2\right\}$$

$$\left\{\text{X8, NAGEL POINT, X63, ISOGONAL CONJUGATE OF X(19), } \frac{r^2\left(-l^2+3 r^2+4 r R+4 R^2\right)}{(r+R)^2}\right\}$$

$$\left\{\text{X8, NAGEL POINT, X64, ISOGONAL CONJUGATE OF X(20), } -\left(\left(l^6-3 l^4 r^2+7 l^2 r^4-5 r^6-12 l^4 r R+32 l^2 r^3 R-36 r^5 R-20 l^4 R^2+84 l^2 r^2 R^2-116 r^4 R^2+160 l^2 r R^3-256 r^3 R^3+128 l^2 R^4-448 r^2 R^4-512 r R^5-256 R^6\right) \Big/ \left((l-r-2 R)^2 (l+r+2 R)^2\right)\right)\right\}$$

$$\left\{\text{X8, NAGEL POINT, X65, ORTHOCENTER OF THE INTOUCH TRIANGLE, } -\frac{-l^2 r+r^3-l^2 R+8 r^2 R+16 r R^2}{R}\right\}$$

$$\left\{\text{X8, NAGEL POINT, X66, ISOGONAL CONJUGATE OF X(22), } -\frac{1}{(l-r-2 R)^2 (l+r+2 R)^2 \left(l^2-r^2-4 r R\right)^2} R\left(4 l^8 r-24 l^6 r^3+48 l^4 r^5-40 l^2 r^7+12 r^9+l^8 R-88 l^6 r^2 R+358 l^4 r^4 R-456 l^2 r^6 R+185 r^8 R-48 l^6 r R^2+832 l^4 r^3 R^2-1936 l^2 r^5 R^2+1152 r^7 R^2-4 l^6 R^3+620 l^4 r^2 R^3-3756 l^2 r^4 R^3+3716 r^6 R^3+112 l^4 r R^4-3232 l^2 r^3 R^4+6576 r^5 R^4-912 l^2 r^2 R^5+6080 r^4 R^5+2304 r^3 R^6\right)\right\}$$

$$\{X8,\ \text{NAGEL POINT},\ X67,\ \text{ISOGONAL CONJUGATE OF } X(23),\ -\left(\left(R\left(4 l^6 r-36 l^4 r^3+60 l^2 r^5-28 r^7+l^6 R-99 l^4 r^2 R+423 l^2 r^4 R-325 r^6 R-36 l^4 r R^2+864 l^2 r^3 R^2-1356 r^5 R^2+420 l^2 r^2 R^3-2416 r^4 R^3-1600 r^3 R^4\right)\right)\Big/\left(\left(l^2-r^2-4 r R\right)^2\left(2 l^2-2 r^2-8 r R-9 R^2\right)\right)\right)\}$$

$$\{X8,\ \text{NAGEL POINT},\ X68,\ \text{PRASOLOV POINT},\ -\left(\left(R\left(4 l^4 r-16 l^2 r^3+12 r^5+l^4 R-54 l^2 r^2 R+89 r^4 R-48 l^2 r R^2+240 r^3 R^2-4 l^2 R^3+276 r^2 R^3+112 r R^4-4 R^5\right)\right)\Big/\left((l-r-2 R)^2(l+r+2 R)^2\right)\right)\}$$

$$\{X8,\ \text{NAGEL POINT},\ X69,\ \text{SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},\ \frac{16 r^2 R\left(l^2 r-r^3+l^2 R-8 r^2 R-16 r R^2\right)}{\left(l^2-r^2-4 r R\right)^2}\}$$

$$\{X8,\ \text{NAGEL POINT},\ X70,\ \text{ISOGONAL CONJUGATE OF } X(26),\ -\left(\left(R\left(4 l^8 r-24 l^6 r^3+48 l^4 r^5-40 l^2 r^7+12 r^9+l^8 R-88 l^6 r^2 R+358 l^4 r^4 R-456 l^2 r^6 R+185 r^8 R-68 l^6 r R^2+916 l^4 r^3 R^2-2044 l^2 r^5 R^2+1196 r^7 R^2-8 l^6 R^3+936 l^4 r^2 R^3-4568 l^2 r^4 R^3+4216 r^6 R^3+332 l^4 r R^4-5280 l^2 r^3 R^4+8788 r^5 R^4+19 l^4 R^5-2898 l^2 r^2 R^5+10907 r^4 R^5-588 l^2 r R^6+7636 r^3 R^6-12 l^2 R^7+2620 r^2 R^7+328 r R^8-4 R^9\right)\right)\Big/\left(\left(l^4-2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-6 l^2 R^2+22 r^2 R^2+24 r R^3+7 R^4\right)^2\right)\right)\}$$

$$\{X8,\ \text{NAGEL POINT},\ X71,\ \text{ISOGONAL CONJUGATE OF } X(27),\ -\frac{1}{\left(l^2+r^2+6 r R+8 R^2\right)^2}\left(l^6-l^4 r^2-5 l^2 r^4-3 r^6-32 l^2 r^3 R-32 r^5 R-4 l^4 R^2-48 l^2 r^2 R^2-108 r^4 R^2-16 l^2 r R^3-80 r^3 R^3-16 l^2 R^4+192 r^2 R^4+256 r R^5\right)\}$$

$$\{X8,\ \text{NAGEL POINT},\ X72,\ \text{ISOGONAL CONJUGATE OF } X(28),\ \frac{r^2(-2 r+R)}{R}\}$$

$$\{X8,\ \text{NAGEL POINT},\ X73,\ \text{CROSSPOINT OF INCENTER AND CIRCUMCENTER},\ \frac{1}{\left(l^2+r^2-2 r R-4 R^2\right)^2}\left(l^6+7 l^4 r^2+11 l^2 r^4+5 r^6-20 l^4 r R-40 l^2 r^3 R-20 r^5 R-8 l^4 R^2+8 l^2 r^2 R^2+16 r^4 R^2+144 l^2 r R^3+112 r^3 R^3+16 l^2 R^4-128 r^2 R^4-256 r R^5\right)\}$$

$$\{X8,\ \text{NAGEL POINT},\ X74,\ \text{ISOGONAL CONJUGATE OF EULER INFINITY POINT},\ -\frac{l^4-6 l^2 r^2+9 r^4-4 l^2 r R+28 r^3 R-12 l^2 R^2+28 r^2 R^2+24 r R^3+36 R^4}{2 l^2-2 r^2-8 r R-9 R^2}\}$$

$$\{X8,\ \text{NAGEL POINT},\ X75,\ \text{ISOTOMIC CONJUGATE OF INCENTER},\ \frac{16 r^2 R\left(l^2 r-r^3+l^2 R-8 r^2 R-16 r R^2\right)}{\left(l^2+r^2+4 r R\right)^2}\}$$

$$\{X8,\ \text{NAGEL POINT},\ X76,\ \text{3rd BROCARD POINT},\ -\left(\left(16 r^2 R\left(l^6 r+3 l^4 r^3+3 l^2 r^5+r^7-l^6 R-18 l^4 r^2 R+15 l^2 r^4 R+16 r^6 R+24 l^4 r R^2-24 l^2 r^3 R^2+96 r^5 R^2-144 l^2 r^2 R^3+256 r^4 R^3+256 r^3 R^4\right)\right)\Big/\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)^2\right)\}$$

$$\{X8,\ \text{NAGEL POINT},\ X77,\ \text{ISOGONAL CONJUGATE OF } X(33),\ \frac{l^6+5 l^4 r^2-20 l^4 r R-4 l^2 r^3 R-8 l^4 R^2+16 l^2 r^2 R^2+144 l^2 r R^3-16 r^3 R^3+16 l^2 R^4-128 r^2 R^4-256 r R^5}{\left(l^2-r R-4 R^2\right)^2}\}$$

$$\{X8,\ \text{NAGEL POINT},\ X78,\ \text{ISOGONAL CONJUGATE OF } X(34),\ \frac{r^2\left(l^2+5 r^2-16 r R\right)}{(r-R)^2}\}$$

$$\{X8,\ \text{NAGEL POINT},\ X79,\ \text{ISOGONAL CONJUGATE OF } X(35),\ -\frac{9 R\left(-2 l^2 r+6 r^3-l^2 R+19 r^2 R+16 r R^2\right)}{(2 r+3 R)^2}\}$$

$$\{X8,\ \text{NAGEL POINT},\ X80,\ \text{REFLECTION OF INCENTER IN FEUERBACH POINT},\ -\frac{R\left(l^2+5 r^2-16 r R\right)}{2 r-R}\}$$

$$\left\{\text{X8, NAGEL POINT, X81, CEVAPOINT OF INCENTER AND SYMMEDIAN POINT,}\ \frac{l^6+5 l^4 r^2-9 l^2 r^4+3 r^6-16 l^4 r R+4 l^2 r^3 R+4 r^5 R+4 r^4 R^2}{\left(l^2-r^2-r R\right)^2}\right\}$$

$$\left\{\text{X8, NAGEL POINT, X82, ISOGONAL CONJUGATE OF X(38),}\ \left(l^{10}+l^8 r^2-34 l^6 r^4+94 l^4 r^6-95 l^2 r^8+33 r^{10}-32 l^8 r R+44 l^6 r^3 R+300 l^4 r^5 R-684 l^2 r^7 R+372 r^9 R+360 l^6 r^2 R^2-624 l^4 r^4 R^2-840 l^2 r^6 R^2+1296 r^8 R^2-1984 l^4 r^3 R^3+2896 l^2 r^5 R^3+560 r^7 R^3+5520 l^2 r^4 R^4-4736 r^6 R^4-6400 r^5 R^5\right)\Big/\left(l^4-4 l^2 r^2+3 r^4-9 l^2 r R+19 r^3 R+28 r^2 R^2\right)^2\right\}$$

$$\left\{\text{X8, NAGEL POINT, X83, CEVAPOINT OF CENTROID AND SYMMEDIAN POINT,}\ \left(16\left(l^{10}+4 l^8 r^2-18 l^6 r^4+24 l^4 r^6-15 l^2 r^8+4 r^{10}-30 l^8 r R-31 l^6 r^3 R+163 l^4 r^5 R-165 l^2 r^7 R+55 r^9 R+297 l^6 r^2 R^2-30 l^4 r^4 R^2-423 l^2 r^6 R^2+240 r^8 R^2-1336 l^4 r^3 R^3+696 l^2 r^5 R^3+160 r^7 R^3+2832 l^2 r^4 R^4-1280 r^6 R^4-2304 r^5 R^5\right)\right)\Big/\left(5 l^4-6 l^2 r^2+5 r^4-40 l^2 r R+40 r^3 R+80 r^2 R^2\right)^2\right\}$$

$$\left\{\text{X8, NAGEL POINT, X84, ISOGONAL CONJUGATE OF X(40),}\ \frac{(r-2 R)^2\left(-l^2+3 r^2+4 r R+4 R^2\right)}{r^2}\right\}$$

$$\left\{\text{X8, NAGEL POINT, X85, ISOTOMIC CONJUGATE OF X(9),}\ \frac{16 R (r+4 R)^2\left(l^2 r-r^3+l^2 R-8 r^2 R-16 r R^2\right)}{\left(l^2+r^2+8 r R+16 R^2\right)^2}\right\}$$

$$\left\{\text{X8, NAGEL POINT, X86, CEVAPOINT OF INCENTER AND CENTROID,}\ \frac{16\left(l^6+6 l^4 r^2+l^2 r^4-14 l^4 r R-3 l^2 r^3 R-r^5 R-31 l^2 r^2 R^2-8 r^4 R^2-16 r^3 R^3\right)}{\left(5 l^2+r^2+4 r R\right)^2}\right\}$$

$$\left\{\text{X8, NAGEL POINT, X87, X(2)-CROSS CONJUGATE OF X(1),}\ \left(l^{10}+9 l^8 r^2+26 l^6 r^4+34 l^4 r^6+21 l^2 r^8+5 r^{10}-48 l^8 r R-288 l^6 r^3 R-320 l^4 r^5 R+32 l^2 r^7 R+112 r^9 R+800 l^6 r^2 R^2+2464 l^4 r^4 R^2-1568 l^2 r^6 R^2+864 r^8 R^2-5120 l^4 r^3 R^3-2560 l^2 r^5 R^3+2560 r^7 R^3+8448 l^2 r^4 R^4+1280 r^6 R^4-4096 r^5 R^5\right)\Big/\left(l^4+2 l^2 r^2+r^4-20 l^2 r R+12 r^3 R+32 r^2 R^2\right)^2\right\}$$

$$\left\{\text{X8, NAGEL POINT, X88, ISOGONAL CONJUGATE OF X(44),}\ \frac{l^6+5 l^4 r^2+15 l^2 r^4+27 r^6-40 l^4 r R-132 l^2 r^3 R-252 r^5 R+528 l^2 r^2 R^2+900 r^4 R^2-2304 r^3 R^3}{\left(l^2+3 r^2-15 r R\right)^2}\right\}$$

$$\left\{\text{X8, NAGEL POINT, X89, ISOGONAL CONJUGATE OF X(45),}\ \frac{4\left(l^6+5 l^4 r^2-33 l^2 r^4+27 r^6-10 l^4 r R+42 l^2 r^3 R-36 r^5 R-87 l^2 r^2 R^2+117 r^4 R^2-144 r^3 R^3\right)}{\left(2 l^2-6 r^2+3 r R\right)^2}\right\}$$

$$\left\{\text{X8, NAGEL POINT, X90, X(3)-CROSS CONJUGATE OF X(1),}\ \frac{(r-R)^2\left(-l^2 r^2+3 r^4+12 r^3 R+l^2 R^2+5 r^2 R^2-16 r R^3\right)}{\left(r^2+2 r R-R^2\right)^2}\right\}$$

$$\left\{\text{X8, NAGEL POINT, X91, ISOGONAL CONJUGATE OF X(47),}\ \left(R\left(-4 l^4 r^3+8 l^2 r^5-20 r^7+l^6 R-5 l^4 r^2 R+59 l^2 r^4 R-143 r^6 R-24 l^4 r R^2+160 l^2 r^3 R^2-392 r^5 R^2-4 l^4 R^3+144 l^2 r^2 R^3-556 r^4 R^3+80 l^2 r R^4-480 r^3 R^4+4 l^2 R^5-236 r^2 R^5-64 r R^6\right)\right)\Big/\left(l^2 r+r^3-l^2 R+3 r^2 R+2 r R^2+2 R^3\right)^2\right\}$$

$$\left\{\text{X8, NAGEL POINT, X92, CEVAPOINT OF INCENTER AND CLAWSON POINT,}\ -\frac{16 r^2 (2 r-R) R (r+2 R)^2}{\left(l^2+r^2-4 R^2\right)^2}\right\}$$

$$\left\{\text{X8, NAGEL POINT, X93, ISOGONAL CONJUGATE OF X(49),}\ -\left(\left(4 R\left(4 l^6 r^3+12 l^4 r^5+12 l^2 r^7+4 r^9-2 l^6 r^2 R-70 l^4 r^4 R+58 l^2 r^6 R+62 r^8 R-6 l^6 r R^2+50 l^4 r^3 R^2-42 l^2 r^5 R^2+414 r^7 R^2-2 l^6 R^3+174 l^4 r^2 R^3-702 l^2 r^4 R^3+1554 r^6 R^3+90 l^4 r R^4-1528 l^2 r^3 R^4+3566 r^5 R^4+12 l^4 R^5-1158 l^2 r^2 R^5+5058 r^4 R^5-318 l^2 r R^6+4230 r^3 R^6-18 l^2 R^7+1826 r^2 R^7+306 r R^8-R^9\right)\right)\Big/\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-8 l^2 R^2+24 r^2 R^2+32 r R^3+13 R^4\right)^2\right)\right\}$$

$$\{X8,\ \text{NAGEL POINT},\ X94,\ \text{ISOGONAL CONJUGATE OF } X(50),$$
$$-\Big(\big(4R\big(4l^6r^3+12l^4r^5+12l^2r^7+4r^9+2l^6r^2R-66l^4r^4R+54l^2r^6R+58r^8R-12l^6rR^2-24l^4r^3R^2-12l^2r^5R^2+384r^7R^2-9l^6R^3+285l^4r^2R^3-651l^2r^4R^3+1519r^6R^3+288l^4rR^4-2100l^2r^3R^4+3916r^5R^4+54l^4R^5-2610l^2r^2R^5+6732r^4R^5-1188l^2rR^6+7488r^3R^6-81l^2R^7+4779r^2R^7+1296rR^8\big)\big)\Big/\big(l^4+2l^2r^2+r^4-8l^2rR+8r^3R-12l^2R^2+28r^2R^2+48rR^3+27R^4\big)^2\Big)\}$$

$$\{X8,\ \text{NAGEL POINT},\ X95,\ \text{CEVAPOINT OF CENTROID AND CIRCUMCENTER},$$
$$\Big(16r^2\big(4l^6r^2+72l^4r^4+4l^2r^6-5l^6rR-123l^4r^3R+9l^2r^5R-r^7R+l^6R^2+130l^4r^2R^2-95l^2r^4R^2-16r^6R^2-8l^4rR^3-320l^2r^3R^3-104r^5R^3-8l^4R^4-168l^2r^2R^4-352r^4R^4+176l^2rR^5-656r^3R^5+16l^2R^6-640r^2R^6-256rR^7\big)\Big)\Big/\big(l^4+18l^2r^2+r^4-8l^2rR+8r^3R-4l^2R^2+20r^2R^2+16rR^3\big)^2\}$$

$$\{X8,\ \text{NAGEL POINT},\ X96,\ \text{ISOGONAL CONJUGATE OF } X(52),$$
$$\frac{1}{\big(l^4-14l^2r^2+r^4-8l^2rR+8r^3R+16r^2R^2-4R^4\big)^2}$$
$$4\big(2l^8r^2-40l^6r^4+172l^4r^6-40l^2r^8+2r^{10}-2l^8rR+12l^6r^3R+128l^4r^5R-364l^2r^7R+34r^9R+3l^8R^2-28l^6r^2R^2+230l^4r^4R^2-1108l^2r^6R^2+231r^8R^2-48l^6rR^3+424l^4r^3R^3-1600l^2r^5R^3+808r^7R^3-16l^6R^4+440l^4r^2R^4-2064l^2r^4R^4+1608r^6R^4+208l^4rR^5-1840l^2r^3R^5+2048r^5R^5+32l^4R^6-928l^2r^2R^6+1936r^4R^6-256l^2rR^7+1184r^3R^7-32l^2R^8+416r^2R^8+96rR^9+16R^{10}\big)\}$$

$$\{X8,\ \text{NAGEL POINT},\ X97,\ \text{ISOGONAL CONJUGATE OF } X(53),$$
$$\big(l^{10}-l^8r^2-54l^6r^4+158l^4r^6-43l^2r^8+3r^{10}-28l^8rR+88l^6r^3R+240l^4r^5R-344l^2r^7R+44r^9R-12l^8R^2+224l^6r^2R^2-116l^4r^4R^2-920l^2r^6R^2+264r^8R^2+296l^6rR^3-1280l^4r^3R^3-520l^2r^5R^3+800r^7R^3+52l^6R^4-1764l^4r^2R^4+2092l^2r^4R^4+1092r^6R^4-1120l^4rR^5+4864l^2r^3R^5-352r^5R^5-96l^4R^6+4544l^2r^2R^6-3616r^4R^6+1792l^2rR^7-5504r^3R^7+64l^2R^8-3776r^2R^8-1024rR^9\big)\Big/\big(l^4-6l^2r^2+r^4-8l^2rR+8r^3R-7l^2R^2+23r^2R^2+28rR^3+12R^4\big)^2\}$$

$$\{X8,\ \text{NAGEL POINT},\ X98,\ \text{TarryPoint},$$
$$\frac{4\big(2l^4r^2-12l^2r^4+2r^6-2l^4rR+18r^5R+l^4R^2-2l^2r^2R^2+49r^4R^2-8l^2rR^3+40r^3R^3+16r^2R^4\big)}{l^4-14l^2r^2+r^4-8l^2rR+8r^3R+16r^2R^2}\}$$

$$\{X8,\ \text{NAGEL POINT},\ X99,\ \text{STEINER POINT},\ -\frac{16r^2\big(4l^2r^2-3l^2rR+r^3R-l^2R^2+8r^2R^2+16rR^3\big)}{l^4-14l^2r^2+r^4-8l^2rR+8r^3R+16r^2R^2}\}$$

$$\{X8,\ \text{NAGEL POINT},\ X100,\ \text{ANTICOMPLEMENT OF FEUERBACH POINT},\ 4r^2\}$$

$$\{X9,\ \text{MITTENPUNKT},\ X10,\ \text{SPIEKER CENTER},\ \frac{r^2\big(-3l^2+r^2+8rR+16R^2\big)}{4(r+4R)^2}\}$$

$$\{X9,\ \text{MITTENPUNKT},\ X11,\ \text{FEUERBACH POINT},$$
$$\frac{-2l^2r^3-2l^2r^2R+r^4R-4l^2rR^2+12r^3R^2-4l^2R^3+48r^2R^3+64rR^4}{(2r-R)(r+4R)^2}\}$$

$$\{X9,\ \text{MITTENPUNKT},\ X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),$$
$$-\frac{4l^2r^4+6l^2r^3R+2r^5R-6l^2r^2R^2+21r^4R^2-12l^2rR^3+76r^3R^3-4l^2R^4+112r^2R^4+64rR^5}{(2r+R)^2(r+4R)^2}\}$$

$$\{X9,\ \text{MITTENPUNKT},\ X13,\ \text{FERMAT POINT},$$
$$\frac{4l^2\big(-2\sqrt{3}\,lr^3-2r^4+3l^2rR-3\sqrt{3}\,lr^2R-16r^3R+3l^2R^2+2\sqrt{3}\,lrR^2-41r^2R^2-36rR^3\big)}{3(r+4R)^2\big(l^2+2\sqrt{3}\,lr-r^2-4rR\big)}\}$$

$$\left\{\text{X9, MITTENPUNKT, X14, 2nd ISOGONIC CENTER,}\ \frac{4\,l^2\left(2\sqrt{3}\,l\,r^3-2\,r^4+3\,l^2\,r\,R+3\sqrt{3}\,l\,r^2\,R-16\,r^3\,R+3\,l^2\,R^2-2\sqrt{3}\,l\,r\,R^2-41\,r^2\,R^2-36\,r\,R^3\right)}{3\,(r+4\,R)^2\left(l^2-2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)}\right\}$$

$$\left\{\text{X9, MITTENPUNKT, X15, 1st ISODYNAMIC POINT,}\ \frac{4\,l^2\,R\left(l^2\,r+\sqrt{3}\,l\,r^2+l^2\,R-2\sqrt{3}\,l\,r\,R-3\,r^2\,R-12\,r\,R^2\right)}{(r+4\,R)^2\left(l^2+2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)}\right\}$$

$$\left\{\text{X9, MITTENPUNKT, X16, 2nd ISODYNAMIC POINT,}\ \frac{4\,l^2\,R\left(l^2\,r-\sqrt{3}\,l\,r^2+l^2\,R+2\sqrt{3}\,l\,r\,R-3\,r^2\,R-12\,r\,R^2\right)}{(r+4\,R)^2\left(l^2-2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)}\right\}$$

$$\left\{\text{X9, MITTENPUNKT, X17, 1st NAPOLEON POINT,}\ \left(12\,l^2\left(-2\sqrt{3}\,l^3\,r^3-18\,l^2\,r^4-2\sqrt{3}\,l\,r^5-2\,r^6+3\,l^4\,r\,R+9\sqrt{3}\,l^3\,r^2\,R+3\,l^2\,r^3\,R-23\sqrt{3}\,l\,r^4\,R-24\,r^5\,R+3\,l^4\,R^2+8\sqrt{3}\,l^3\,r\,R^2-12\,l^2\,r^2\,R^2-88\sqrt{3}\,l\,r^3\,R^2-95\,r^4\,R^2-48\,l^2\,r\,R^3-112\sqrt{3}\,l\,r^2\,R^3-120\,r^3\,R^3+16\,r^2\,R^4\right)\right)\Big/\left((r+4\,R)^2\left(3\,l^2+10\sqrt{3}\,l\,r-3\,r^2-12\,r\,R\right)^2\right)\right\}$$

$$\left\{\text{X9, MITTENPUNKT, X18, 2nd NAPOLEON POINT,}\ \left(12\,l^2\left(2\sqrt{3}\,l^3\,r^3-18\,l^2\,r^4+2\sqrt{3}\,l\,r^5-2\,r^6+3\,l^4\,r\,R-9\sqrt{3}\,l^3\,r^2\,R+3\,l^2\,r^3\,R+23\sqrt{3}\,l\,r^4\,R-24\,r^5\,R+3\,l^4\,R^2-8\sqrt{3}\,l^3\,r\,R^2-12\,l^2\,r^2\,R^2+88\sqrt{3}\,l\,r^3\,R^2-95\,r^4\,R^2-48\,l^2\,r\,R^3+112\sqrt{3}\,l\,r^2\,R^3-120\,r^3\,R^3+16\,r^2\,R^4\right)\right)\Big/\left((r+4\,R)^2\left(3\,l^2-10\sqrt{3}\,l\,r-3\,r^2-12\,r\,R\right)^2\right)\right\}$$

$$\left\{\text{X9, MITTENPUNKT, X19, CLAWSON POINT,}\ \frac{4\,l^4\,R^2\left(-3\,l^2+r^2+8\,r\,R+16\,R^2\right)}{(r+4\,R)^2\left(-l^2+r^2+6\,r\,R+8\,R^2\right)^2}\right\}$$

$$\left\{\text{X9, MITTENPUNKT, X20, DE LONGCHAMPS POINT,}\ \frac{-l^2\,r^2+3\,r^4-16\,l^2\,r\,R+36\,r^3\,R-60\,l^2\,R^2+160\,r^2\,R^2+320\,r\,R^3+256\,R^4}{(r+4\,R)^2}\right\}$$

$$\left\{\text{X9, MITTENPUNKT, X21, SCHIFFLER POINT,}\ -\frac{R\left(-6\,l^2\,r^3+2\,r^5-7\,l^2\,r^2\,R+21\,r^4\,R-8\,l^2\,r\,R^2+76\,r^3\,R^2-4\,l^2\,R^3+112\,r^2\,R^3+64\,r\,R^4\right)}{(2\,r+3\,R)^2\,(r+4\,R)^2}\right\}$$

$$\left\{\text{X9, MITTENPUNKT, X22, ExeterPoint,}\ \left(R\left(2\,l^6\,r-4\,l^4\,r^3+2\,l^2\,r^5-4\,l^6\,R-6\,l^4\,r^2\,R+10\,l^2\,r^4\,R+26\,l^4\,r\,R^2-2\,l^2\,r^3\,R^2+16\,l^4\,R^3-61\,l^2\,r^2\,R^3-r^4\,R^3-56\,l^2\,r\,R^4-12\,r^3\,R^4+4\,l^2\,R^5-48\,r^2\,R^5-64\,r\,R^6\right)\right)\Big/\left((r+4\,R)^2\left(-l^2+r^2+4\,r\,R+3\,R^2\right)^2\right)\right\}$$

$$\left\{\text{X9, MITTENPUNKT, X23, FarOutPoint,}\ -\frac{R\left(4\,l^4\,r-4\,l^2\,r^3-8\,l^4\,R-3\,l^2\,r^2\,R+r^4\,R+24\,l^2\,r\,R^2+12\,r^3\,R^2-4\,l^2\,R^3+48\,r^2\,R^3+64\,r\,R^4\right)}{(r+4\,R)^2\left(-2\,l^2+2\,r^2+8\,r\,R+9\,R^2\right)}\right\}$$

$$\left\{\text{X9, MITTENPUNKT, X24, PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE,}\ \left(R\left(2\,l^6\,r-4\,l^4\,r^3+2\,l^2\,r^5-4\,l^6\,R-6\,l^4\,r^2\,R+10\,l^2\,r^4\,R+18\,l^4\,r\,R^2+6\,l^2\,r^3\,R^2+32\,l^4\,R^3-51\,l^2\,r^2\,R^3+r^4\,R^3-116\,l^2\,r\,R^4+12\,r^3\,R^4-76\,l^2\,R^5+52\,r^2\,R^5+96\,r\,R^6+64\,R^7\right)\right)\Big/\left((r+4\,R)^2\left(-l^2+r^2+4\,r\,R+5\,R^2\right)^2\right)\right\}$$

$$\left\{\text{X9, MITTENPUNKT, X25, HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES,}\ -\left(\left(R\left(-2\,l^6\,r+4\,l^4\,r^3-2\,l^2\,r^5+4\,l^6\,R+5\,l^4\,r^2\,R-10\,l^2\,r^4\,R+r^6\,R-12\,l^4\,r\,R^2-20\,l^2\,r^3\,R^2+16\,r^5\,R^2-16\,l^4\,R^3-28\,l^2\,r^2\,R^3+100\,r^4\,R^3-32\,l^2\,r\,R^4+304\,r^3\,R^4-16\,l^2\,R^5+448\,r^2\,R^5+256\,r\,R^6\right)\right)\Big/\left((r+4\,R)^2\left(-l^2+r^2+4\,r\,R+6\,R^2\right)^2\right)\right)\right\}$$

$$\{X9,\ \text{MITTENPUNKT},\ X26,\ \text{CIRCUMCENTER OF THE TANGENTIAL TRIANGLE},\ \left(R\left(2 l^6 r-4 l^4 r^3+2 l^2 r^5-4 l^6 R-6 l^4 r^2 R+10 l^2 r^4 R+22 l^4 r R^2+2 l^2 r^3 R^2+24 l^4 R^3-56 l^2 r^2 R^3-88 l^2 r R^4-32 l^2 R^5+r^2 R^5+8 r R^6+16 R^7\right)\right)\Big/\left((-l+r+2R)^2\,(l+r+2R)^2\,(r+4R)^2\right)\}$$

$$\{X9,\ \text{MITTENPUNKT},\ X27,\ \text{CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER},\ -\left(\left(l^6 r^2+3 l^4 r^4+3 l^2 r^6+r^8+16 l^6 r R+28 l^4 r^3 R+20 r^7 R+60 l^6 R^2+16 l^4 r^2 R^2-148 l^2 r^4 R^2+168 r^6 R^2-192 l^4 r R^3-672 l^2 r^3 R^3+768 r^5 R^3-288 l^4 R^4-1168 l^2 r^2 R^4+2064 r^4 R^4-768 l^2 r R^5+3264 r^3 R^5-64 l^2 R^6+2816 r^2 R^6+1024 r R^7\right)\Big/\left((r+4R)^2\left(-l^2+3 r^2+12 r R+12 R^2\right)^2\right)\right)\}$$

$$\{X9,\ \text{MITTENPUNKT},\ X28,\ \text{CEVAPOINT OF X(19) AND X(25)},\ -\left(\left(R\left(-2 l^6 r+3 l^4 r^3-2 l^2 r^5+r^7+4 l^6 R+11 l^4 r^2 R-21 l^2 r^4 R+16 r^6 R+4 l^4 r R^2-84 l^2 r^3 R^2+104 r^5 R^2-16 l^4 R^3-152 l^2 r^2 R^3+352 r^4 R^3-112 l^2 r R^4+656 r^3 R^4-16 l^2 R^5+640 r^2 R^5+256 r R^6\right)\right)\Big/\left((r+4R)^2\left(-l^2+r^2+5 r R+6 R^2\right)^2\right)\right)\}$$

$$\{X9,\ \text{MITTENPUNKT},\ X29,\ \text{CEVAPOINT OF INCENTER AND ORTHOCENTER},\ \left(-5 l^6 r^2-7 l^4 r^4+l^2 r^6+3 r^8+8 l^6 r R-44 l^4 r^3 R+24 l^2 r^5 R+44 r^7 R+4 l^6 R^2-112 l^4 r^2 R^2+180 l^2 r^4 R^2+248 r^6 R^2-128 l^4 r R^3+608 l^2 r^3 R^3+640 r^5 R^3-32 l^4 R^4+976 l^2 r^2 R^4+560 r^4 R^4+640 l^2 r R^5-704 r^3 R^5+64 l^2 R^6-1792 r^2 R^6-1024 r R^7\right)\Big/\left((r+4R)^2\left(-3 l^2+r^2+8 r R+12 R^2\right)^2\right)\}$$

$$\{X9,\ \text{MITTENPUNKT},\ X30,\ \text{EulerInfinityPoint},\ \infty\}$$

$$\{X9,\ \text{MITTENPUNKT},\ X31,\ \text{SecondPowerPoint},\ -\left(\left(4R\left(-l^6 r+4 l^4 r^3-3 l^2 r^5-l^6 R+12 l^4 r^2 R-14 l^2 r^4 R+r^6 R+20 l^4 r R^2-52 l^2 r^3 R^2+12 r^5 R^2-68 l^2 r^2 R^3+48 r^4 R^3+64 r^3 R^4\right)\right)\Big/\left((r+4R)^2\left(-l^2+3 r^2+6 r R\right)^2\right)\right)\}$$

$$\{X9,\ \text{MITTENPUNKT},\ X32,\ \text{ThirdPowerPoint},\ -\left(\left(4 l^4 R\left(-l^6 r+9 l^4 r^3-19 l^2 r^5+3 r^7-l^6 R+18 l^4 r^2 R-57 l^2 r^4 R+36 r^6 R+24 l^4 r R^2-152 l^2 r^3 R^2+160 r^5 R^2-144 l^2 r^2 R^3+320 r^4 R^3+256 r^3 R^4\right)\right)\Big/\left((r+4R)^2\left(-l^2-2 l r+r^2+4 r R\right)^2\left(-l^2+2 l r+r^2+4 r R\right)^2\right)\right)\}$$

$$\{X9,\ \text{MITTENPUNKT},\ X33,\ \text{PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES},\ -\left(\left(4R\left(-l^6 r+4 l^4 r^3-3 l^2 r^5-l^6 R+18 l^4 r^2 R-24 l^2 r^4 R+r^6 R+28 l^4 r R^2-92 l^2 r^3 R^2+16 r^5 R^2+8 l^4 R^3-188 l^2 r^2 R^3+100 r^4 R^3-160 l^2 r R^4+304 r^3 R^4-16 l^2 R^5+448 r^2 R^5+256 r R^6\right)\right)\Big/\left((r+4R)^2\left(-l^2+r^2+2 r R+4 R^2\right)^2\right)\right)\}$$

$$\{X9,\ \text{MITTENPUNKT},\ X34,\ X(4)\text{-BETH CONJUGATE OF X(4)},\ -\left(\left(4R\left(-l^6 r+2 l^4 r^3-3 l^2 r^5+2 r^7-l^6 R+18 l^4 r^2 R-36 l^2 r^4 R+29 r^6 R+36 l^4 r R^2-156 l^2 r^3 R^2+168 r^5 R^2+8 l^4 R^3-284 l^2 r^2 R^3+500 r^4 R^3-192 l^2 r R^4+816 r^3 R^4-16 l^2 R^5+704 r^2 R^5+256 r R^6\right)\right)\Big/\left((r+4R)^2\left(-l^2+r^2+6 r R+4 R^2\right)^2\right)\right)\}$$

$$\{X9,\ \text{MITTENPUNKT},\ X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF X(36)},\ -\frac{4R\left(-2 l^2 r^3+l^2 r^2 R-l^2 r R^2+r^3 R^2-l^2 R^3+8 r^2 R^3+16 r R^4\right)}{(2r+R)^2\,(r+4R)^2}\}$$

$$\{X9,\ \text{MITTENPUNKT},\ X36,\ \text{INVERSE-IN-CIRCUMCIRCLE OF INCENTER},\ \frac{4R\left(l^2 r^2-3 l^2 r R+r^3 R-l^2 R^2+8 r^2 R^2+16 r R^3\right)}{(2r-R)\,(r+4R)^2}\}$$

$$\{X9,\ \text{MITTENPUNKT},\ X37,\ \text{CrosspointOfIncenterAndCentroid},\ -\frac{4 l^4 R\left(-l^2 r+r^3-l^2 R+8 r^2 R+16 r R^2\right)}{(r+4R)^2\left(l^2+r^2+4 r R\right)^2}\}$$

$$\{X9,\ \text{MITTENPUNKT},\ X38,\ \text{CROSSPOINT OF X(1) AND X(75)},\ -\left(\left(4R\left(-l^6 r+2 l^4 r^3-3 l^2 r^5+2 r^7-l^6 R+24 l^4 r^2 R-42 l^2 r^4 R+33 r^6 R+28 l^4 r R^2-204 l^2 r^3 R^2+204 r^5 R^2-228 l^2 r^2 R^3+560 r^4 R^3+576 r^3 R^4\right)\right)\Big/\left((r+4R)^2\left(l^2+r^2-2 r R\right)^2\right)\right)\}$$

$$\{X9,\ \text{MITTENPUNKT},\ X39,\ \text{BrocardMidpoint},\ \left(4 l^4 R\left(l^6 r+3 l^4 r^3+3 l^2 r^5+r^7+l^6 R-18 l^4 r^2 R-23 l^2 r^4 R+12 r^6 R-24 l^4 r R^2+88 l^2 r^3 R^2+32 r^5 R^2+144 l^2 r^2 R^3-64 r^4 R^3-256 r^3 R^4\right)\right)\Big/\left((r+4R)^2\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)^2\right)\}$$

$$\left\{X9,\ \text{MITTENPUNKT},\ X40,\ \text{BEVAN POINT},\ \frac{4R^2\left(-3l^2+r^2+8rR+16R^2\right)}{(r+4R)^2}\right\}$$

$$\left\{X9,\ \text{MITTENPUNKT},\ X41,\ X(6)\text{-CEVA CONJUGATE OF } X(31),\ -\frac{4l^4R\left(-6l^2r^3+2r^5-7l^2r^2R+21r^4R-8l^2rR^2+76r^3R^2-4l^2R^3+112r^2R^3+64rR^4\right)}{(r+4R)^2\left(-3l^2r+r^3-2l^2R+8r^2R+16rR^2\right)^2}\right\}$$

$$\left\{X9,\ \text{MITTENPUNKT},\ X42,\ \text{CROSSPOINT OF INCENTER AND SYMMEDIAN POINT},\ -\left(\left(4R\left(-l^6r-2l^4r^3-l^2r^5-l^6R+4l^4r^2R+10l^2r^4R+r^6R+12l^4rR^2+44l^2r^3R^2+12r^5R^2+60l^2r^2R^3+48r^4R^3+64r^3R^4\right)\right)\Big/\left((r+4R)^2\left(l^2+r^2-2rR\right)^2\right)\right)\right\}$$

$$\left\{X9,\ \text{MITTENPUNKT},\ X43,\ X(6)\text{-CEVA CONJUGATE OF } X(1),\ \frac{4R\left(l^6r+3l^4r^3+3l^2r^5+r^7+l^6R-10l^4r^2R-15l^2r^4R+12r^6R-16l^4rR^2+48r^5R^2+64r^4R^3\right)}{(r+4R)^2\left(l^2+r^2-8rR\right)^2}\right\}$$

$$\left\{X9,\ \text{MITTENPUNKT},\ X44,\ X(6)\text{-LINE CONJUGATE OF } X(1),\ -\frac{4l^4R\left(-l^2r+r^3-l^2R+8r^2R+16rR^2\right)}{(r+4R)^2\left(-l^2+3r^2+12rR\right)^2}\right\}$$

$$\left\{X9,\ \text{MITTENPUNKT},\ X45,\ X(9)\text{-BETH CONJUGATE OF } X(1),\ -\frac{4l^4R\left(-l^2r+r^3-l^2R+8r^2R+16rR^2\right)}{(r+4R)^2\left(l^2+3r^2+12rR\right)^2}\right\}$$

$$\left\{X9,\ \text{MITTENPUNKT},\ X46,\ X(4)\text{-CEVA CONJUGATE OF } X(1),\ -\frac{4R^2\left(4l^2r^2-3l^2rR+r^3R-l^2R^2+8r^2R^2+16rR^3\right)}{(r-R)^2(r+4R)^2}\right\}$$

$$\left\{X9,\ \text{MITTENPUNKT},\ X47,\ X(110)\text{-BETH CONJUGATE OF } X(34),\ -\left(\left(4R\left(-l^6r+4l^4r^3-3l^2r^5-l^6R+12l^4r^2R-14l^2r^4R+r^6R+24l^4rR^2-62l^2r^3R^2+14r^5R^2+4l^4R^3-108l^2r^2R^3+72r^4R^3-76l^2rR^4+164r^3R^4-4l^2R^5+160r^2R^5+64rR^6\right)\right)\Big/\left((r+4R)^2\left(-l^2+3r^2+6rR+2R^2\right)^2\right)\right)\right\}$$

$$\left\{X9,\ \text{MITTENPUNKT},\ X48,\ \text{CROSSPOINT OF } X(1)\ \text{AND } X(63),\ -\frac{4l^4(2r-R)R\left(-3l^2+r^2+8rR+16R^2\right)}{(r+4R)^2\left(-3l^2+r^2+6rR+8R^2\right)^2}\right\}$$

$$\left\{X9,\ \text{MITTENPUNKT},\ X49,\ \text{CENTER OF SINE-TRIPLE-ANGLE CIRCLE},\ -\left(\left(R\left(-12l^6r+16l^4r^3-4l^2r^5+73l^4r^2R-38l^2r^4R+r^6R+118l^4rR^2-170l^2r^3R^2+16r^5R^2-8l^4R^3-368l^2r^2R^3+100r^4R^3-302l^2rR^4+304r^3R^4+20l^2R^5+447r^2R^5+248rR^6-16R^7\right)\right)\Big/\left((r+4R)^2\left(-2l^2+2r^2+8rR+7R^2\right)^2\right)\right)\right\}$$

$$\left\{X9,\ \text{MITTENPUNKT},\ X50,\ X(74)\text{-CEVA CONJUGATE OF } X(184),\ -\left(\left(4l^4R\left(-l^6r+9l^4r^3-19l^2r^5+3r^7-l^6R+18l^4r^2R-57l^2r^4R+36r^6R+30l^4rR^2-182l^2r^3R^2+172r^5R^2+6l^4R^3-222l^2r^2R^3+440r^4R^3-129l^2rR^4+649r^3R^4-9l^2R^5+456r^2R^5+144rR^6\right)\right)\Big/\left((r+4R)^2\left(l^4-6l^2r^2+r^4-8l^2rR+8r^3R-3l^2R^2+19r^2R^2+12rR^3\right)^2\right)\right)\right\}$$

$$\left\{X9,\ \text{MITTENPUNKT},\ X51,\ \text{CENTROID OF ORTHIC TRIANGLE},\ -\frac{1}{36R^2(r+4R)^2}\left(l^4r^2+18l^2r^4+r^6-4l^4rR+124l^2r^3R+16r^5R-32l^4R^2+292l^2r^2R^2+100r^4R^2+224l^2rR^3+304r^3R^3-16l^2R^4+448r^2R^4+256rR^5\right)\right\}$$

$$\left\{X9,\ \text{MITTENPUNKT},\ X52,\ \text{ORTHOCENTER OF ORTHIC TRIANGLE},\ \frac{1}{4R^2(r+4R)^2}\left(l^4r^2-14l^2r^4+r^6+12l^4rR-116l^2r^3R+16r^5R+32l^4R^2-308l^2r^2R^2+100r^4R^2-280l^2rR^3+304r^3R^3-80l^2R^4+452r^2R^4+288rR^5+64R^6\right)\right\}$$

$$\{X9, \text{MITTENPUNKT}, X53, \text{SYMMEDIAN POINT OF ORTHIC TRIANGLE},$$
$$\left(4 l^4 \left(2 l^4 r^4 - 12 l^2 r^6 + 2 r^8 + l^6 r R - 3 l^4 r^3 R - 33 l^2 r^5 R + 19 r^7 R + l^6 R^2 - 26 l^4 r^2 R^2 + 49 l^2 r^4 R^2 + 40 r^6 R^2 - 32 l^4 r R^3 + 232 l^2 r^3 R^3 - 120 r^5 R^3 - 8 l^4 R^4 + 280 l^2 r^2 R^4 - 608 r^4 R^4 + 176 l^2 r R^5 - 912 r^3 R^5 + 16 l^2 R^6 - 640 r^2 R^6 - 256 r R^7\right)\right) / \left((r + 4 R)^2 \left(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 4 l^2 R^2 + 20 r^2 R^2 + 16 r R^3\right)^2\right)\}$$

$$\{X9, \text{MITTENPUNKT}, X54, \text{KosnitaPoint},$$
$$\left(R \left(12 l^6 r - 16 l^4 r^3 + 4 l^2 r^5 - 76 l^4 r^2 R + 36 l^2 r^4 R - 102 l^4 r R^2 + 130 l^2 r^3 R^2 + 24 l^4 R^3 + 205 l^2 r^2 R^3 + r^4 R^3 + 76 l^2 r R^4 + 12 r^3 R^4 - 76 l^2 R^5 + 52 r^2 R^5 + 96 r R^6 + 64 R^7\right)\right) / \left((r + 4 R)^2 \left(-2 l^2 + 2 r^2 + 8 r R + 5 R^2\right)^2\right)\}$$

$$\{X9, \text{MITTENPUNKT}, X55, \text{INSIMILICENTER}(\text{CIRCUMCIRCLE}, \text{INCIRCLE}),$$
$$-\frac{R \left(-2 l^2 r^3 - 2 l^2 r^2 R + r^4 R - 4 l^2 r R^2 + 12 r^3 R^2 - 4 l^2 R^3 + 48 r^2 R^3 + 64 r R^4\right)}{(r + R)^2 (r + 4 R)^2}\}$$

$$\{X9, \text{MITTENPUNKT}, X56, \text{EXSIMILICENTER}(\text{CIRCUMCIRCLE}, \text{INCIRCLE}),$$
$$\frac{R \left(2 l^2 r^3 - 10 l^2 r^2 R + 3 r^4 R + 4 l^2 r R^2 + 20 r^3 R^2 + 4 l^2 R^3 + 16 r^2 R^3 - 64 r R^4\right)}{(r - R)^2 (r + 4 R)^2}\}$$

$$\{X9, \text{MITTENPUNKT}, X57, \text{ISOGONAL CONJUGATE OF } X(9),$$
$$-\frac{4 R^2 \left(5 l^2 r^2 + r^4 - 8 l^2 r R + 12 r^3 R - 4 l^2 R^2 + 48 r^2 R^2 + 64 r R^3\right)}{(r - 2 R)^2 (r + 4 R)^2}\}$$

$$\{X9, \text{MITTENPUNKT}, X58, \text{ISOGONAL CONJUGATE OF } X(10),$$
$$\frac{4 R \left(l^6 r - 4 l^4 r^3 + 3 l^2 r^5 + l^6 R - 8 l^4 r^2 R + 4 l^2 r^4 R + r^6 R - 16 l^4 r R^2 + 16 l^2 r^3 R^2 + 8 r^5 R^2 + 16 r^4 R^3\right)}{(r + 4 R)^2 \left(-l^2 + 3 r^2 + 4 r R\right)^2}\}$$

$$\{X9, \text{MITTENPUNKT}, X59, \text{ISOGONAL CONJUGATE OF } X(11),$$
$$\left(R \left(6 l^6 r^2 - 8 l^4 r^4 + 2 l^2 r^6 - 4 l^6 r R - 44 l^4 r^3 R + 24 l^2 r^5 R - 4 l^6 R^2 - 20 l^4 r^2 R^2 + 93 l^2 r^4 R^2 + r^6 R^2 + 120 l^4 r R^3 + 64 l^2 r^3 R^3 + 20 r^5 R^3 + 32 l^4 R^4 - 372 l^2 r^2 R^4 + 160 r^4 R^4 - 672 l^2 r R^5 + 640 r^3 R^5 - 64 l^2 R^6 + 1280 r^2 R^6 + 1024 r R^7\right)\right) / \left((2 r - R) (r + 4 R)^2 \left(-l^2 + r^2 + 5 r R + 4 R^2\right)^2\right)\}$$

$$\{X9, \text{MITTENPUNKT}, X60, \text{ISOGONAL CONJUGATE OF } X(12),$$
$$-\left(\left(R \left(-12 l^6 r^3 + 16 l^4 r^5 - 4 l^2 r^7 - 14 l^6 r^2 R + 72 l^4 r^4 R - 26 l^2 r^6 R - 12 l^6 r R^2 + 192 l^4 r^3 R^2 - 106 l^2 r^5 R^2 + 2 r^7 R^2 - 4 l^6 R^3 + 196 l^4 r^2 R^3 - 239 l^2 r^4 R^3 + 21 r^6 R^3 + 72 l^4 r R^4 - 296 l^2 r^3 R^4 + 76 r^5 R^4 - 132 l^2 r^2 R^5 + 112 r^4 R^5 + 64 r^3 R^6\right)\right) / \left((r + 4 R)^2 \left(-2 l^2 r + 2 r^3 - l^2 R + 7 r^2 R + 7 r R^2\right)^2\right)\right)\}$$

$$\{X9, \text{MITTENPUNKT}, X61, \text{ISOGONAL CONJUGATE OF } X(17),$$
$$\left(12 l^2 R \left(3 l^4 r + 3 \sqrt{3}\, l^3 r^2 - l^2 r^3 - \sqrt{3}\, l r^4 + 3 l^4 R - 28 l^2 r^2 R - 8 \sqrt{3}\, l r^3 R + r^4 R - 48 l^2 r R^2 - 16 \sqrt{3}\, l r^2 R^2 + 8 r^3 R^2 + 16 r^2 R^3\right)\right) / \left((r + 4 R)^2 \left(3 l^2 + 2 \sqrt{3}\, l r - 3 r^2 - 12 r R\right)^2\right)\}$$

$$\{X9, \text{MITTENPUNKT}, X62, \text{ISOGONAL CONJUGATE OF } X(18),$$
$$\left(12 l^2 R \left(3 l^4 r - 3 \sqrt{3}\, l^3 r^2 - l^2 r^3 + \sqrt{3}\, l r^4 + 3 l^4 R - 28 l^2 r^2 R + 8 \sqrt{3}\, l r^3 R + r^4 R - 48 l^2 r R^2 + 16 \sqrt{3}\, l r^2 R^2 + 8 r^3 R^2 + 16 r^2 R^3\right)\right) / \left((r + 4 R)^2 \left(3 l^2 - 2 \sqrt{3}\, l r - 3 r^2 - 12 r R\right)^2\right)\}$$

$$\{X9, \text{MITTENPUNKT}, X63, \text{ISOGONAL CONJUGATE OF } X(19),$$
$$-\frac{R^2 \left(5 l^2 r^2 + r^4 - 8 l^2 r R + 12 r^3 R - 4 l^2 R^2 + 48 r^2 R^2 + 64 r R^3\right)}{(r + R)^2 (r + 4 R)^2}\}$$

$$\{X9, \text{MITTENPUNKT}, X64, \text{ISOGONAL CONJUGATE OF } X(20),$$
$$\left(4 R \left(-l^4 r^3 + l^2 r^5 - 3 l^6 R + 5 l^4 r^2 R + 3 r^6 R + 48 l^4 r R^2 - 68 l^2 r^3 R^2 + 48 r^5 R^2 + 72 l^4 R^3 - 356 l^2 r^2 R^3 + 316 r^4 R^3 - 704 l^2 r R^4 + 1104 r^3 R^4 - 496 l^2 R^5 + 2176 r^2 R^5 + 2304 r R^6 + 1024 R^7\right)\right) / \left((-l + r + 2 R)^2 (l + r + 2 R)^2 (r + 4 R)^2\right)\}$$

$$\left\{\text{X9, MITTENPUNKT, X65, ORTHOCENTER OF THE INTOUCH TRIANGLE,}\ -\frac{2 r^5-2 l^2 r^2 R+21 r^4 R-12 l^2 r R^2+76 r^3 R^2-4 l^2 R^3+112 r^2 R^3+64 r R^4}{R (r+4 R)^2}\right\}$$

$$\left\{\text{X9, MITTENPUNKT, X66, ISOGONAL CONJUGATE OF X(22),}\ -\frac{1}{(-l+r+2 R)^2 (l+r+2 R)^2 (r+4 R)^2 \left(-l^2+r^2+4 r R\right)^2}\right.$$
$$\left(2 l^{10} r^2-12 l^8 r^4+24 l^6 r^6-20 l^4 r^8+6 l^2 r^{10}+6 l^{10} r R-84 l^8 r^3 R+264 l^6 r^5 R-300 l^4 r^7 R+\right.$$
$$114 l^2 r^9 R+4 l^{10} R^2-179 l^8 r^2 R^2+1068 l^6 r^4 R^2-1806 l^4 r^6 R^2+912 l^2 r^8 R^2+r^{10} R^2-120 l^8 r R^3+$$
$$1928 l^6 r^3 R^3-5552 l^4 r^5 R^3+3976 l^2 r^7 R^3+24 r^9 R^3-16 l^8 R^4+1468 l^6 r^2 R^4-9108 l^4 r^4 R^4+$$
$$10164 l^2 r^6 R^4+244 r^8 R^4+320 l^6 r R^5-7440 l^4 r^3 R^5+15104 l^2 r^5 R^5+1360 r^7 R^5-2304 l^4 r^2 R^6+$$
$$\left.\left.11824 l^2 r^4 R^6+4480 r^6 R^6+3456 l^2 r^3 R^7+8704 r^5 R^7-256 l^2 r^2 R^8+9216 r^4 R^8+4096 r^3 R^9\right)\right\}$$

$$\left\{\text{X9, MITTENPUNKT, X67, ISOGONAL CONJUGATE OF X(23),}\ -\frac{1}{(r+4 R)^2 \left(-l^2+r^2+4 r R\right)^2 \left(-2 l^2+2 r^2+8 r R+9 R^2\right)}\right.$$
$$\left(-3 l^8 r^2+20 l^6 r^4-30 l^4 r^6+12 l^2 r^8+r^{10}-6 l^8 r R+126 l^6 r^3 R-306 l^4 r^5 R+\right.$$
$$162 l^2 r^7 R+24 r^9 R+200 l^6 r^2 R^2-1092 l^4 r^4 R^2+840 l^2 r^6 R^2+244 r^8 R^2+36 l^6 r R^3-$$
$$1620 l^4 r^3 R^3+2112 l^2 r^5 R^3+1360 r^7 R^3-4 l^6 R^4-912 l^4 r^2 R^4+2736 l^2 r^4 R^4+$$
$$\left.\left.4480 r^6 R^4+1920 l^2 r^3 R^5+8704 r^5 R^5+768 l^2 r^2 R^6+9216 r^4 R^6+4096 r^3 R^7\right)\right\}$$

$$\left\{\text{X9, MITTENPUNKT, X68, PRASOLOV POINT,}\right.$$
$$\left(-2 l^6 r^2+8 l^4 r^4-6 l^2 r^6-6 l^6 r R+56 l^4 r^3 R-66 l^2 r^5 R-4 l^6 R^2+125 l^4 r^2 R^2-286 l^2 r^4 R^2+\right.$$
$$r^6 R^2+100 l^4 r R^3-628 l^2 r^3 R^3+16 r^5 R^3+32 l^4 R^4-724 l^2 r^2 R^4+100 r^4 R^4-368 l^2 r R^5+$$
$$\left.\left.304 r^3 R^5-64 l^2 R^6+452 r^2 R^6+288 r R^7+64 R^8\right) \Big/ \left((-l+r+2 R)^2 (l+r+2 R)^2 (r+4 R)^2\right)\right\}$$

$$\left\{\text{X9, MITTENPUNKT, X69, SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE,}\right.$$
$$-\left(\left(l^6 r^2-9 l^4 r^4+7 l^2 r^6+r^8-52 l^4 r^3 R+64 l^2 r^5 R+20 r^7 R-\right.\right.$$
$$4 l^6 R^2-56 l^4 r^2 R^2+204 l^2 r^4 R^2+160 r^6 R^2+32 l^4 r R^3+352 l^2 r^3 R^3+640 r^5 R^3+$$
$$\left.\left.\left.448 l^2 r^2 R^4+1280 r^4 R^4+1024 r^3 R^5\right) \Big/ \left((r+4 R)^2 \left(-l^2+r^2+4 r R\right)^2\right)\right)\right\}$$

$$\left\{\text{X9, MITTENPUNKT, X70, ISOGONAL CONJUGATE OF X(26),}\right.$$
$$-\left(\left(2 l^{10} r^2-12 l^8 r^4+24 l^6 r^6-20 l^4 r^8+6 l^2 r^{10}+6 l^{10} r R-84 l^8 r^3 R+264 l^6 r^5 R-300 l^4 r^7 R+\right.\right.$$
$$114 l^2 r^9 R+4 l^{10} R^2-188 l^8 r^2 R^2+1108 l^6 r^4 R^2-1860 l^4 r^6 R^2+936 l^2 r^8 R^2-150 l^8 r R^3+$$
$$2222 l^6 r^3 R^3-6170 l^4 r^5 R^3+4354 l^2 r^7 R^3-40 l^8 R^4+2173 l^6 r^2 R^4-11815 l^4 r^4 R^4+$$
$$12627 l^2 r^6 R^4-r^8 R^4+930 l^6 r R^5-13076 l^4 r^3 R^5+23638 l^2 r^5 R^5-20 r^7 R^5+144 l^6 R^6-$$
$$7866 l^4 r^2 R^6+28560 l^2 r^4 R^6-166 r^6 R^6-2214 l^4 r R^7+21602 l^2 r^3 R^7-736 r^5 R^7-232 l^4 R^8+$$
$$9515 l^2 r^2 R^8-1865 r^4 R^8+2084 l^2 r R^9-2668 r^3 R^9+172 l^2 R^{10}-1972 r^2 R^{10}-608 r R^{11}-64 R^{12}\Big) \Big/$$
$$\left.\left.\left((r+4 R)^2 \left(l^4-2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-6 l^2 R^2+22 r^2 R^2+24 r R^3+7 R^4\right)^2\right)\right)\right\}$$

$$\left\{\text{X9, MITTENPUNKT, X71, ISOGONAL CONJUGATE OF X(27),}\ \frac{4 l^4 R^2 \left(-3 l^2+r^2+8 r R+16 R^2\right)}{(r+4 R)^2 \left(l^2+r^2+6 r R+8 R^2\right)^2}\right\}$$

$$\left\{\text{X9, MITTENPUNKT, X72, ISOGONAL CONJUGATE OF X(28),}\ -\frac{(r+2 R)^2 \left(-l^2 r+r^3-l^2 R+8 r^2 R+16 r R^2\right)}{R (r+4 R)^2}\right\}$$

$$\left\{\text{X9, MITTENPUNKT, X73, CROSSPOINT OF INCENTER AND CIRCUMCENTER,}\right.$$
$$\left(4 R \left(l^6 r+2 l^4 r^3+l^2 r^5+l^6 R-6 l^4 r^2 R-8 l^2 r^4 R+3 r^6 R-\right.\right.$$
$$\left.\left.\left.28 l^4 r R^2-20 l^2 r^3 R^2+32 r^5 R^2-8 l^4 R^3+76 l^2 r^2 R^3+108 r^4 R^3+160 l^2 r R^4+\right.\right.$$
$$\left.\left.\left.80 r^3 R^4+16 l^2 R^5-192 r^2 R^5-256 r R^6\right)\right) \Big/ \left((r+4 R)^2 \left(l^2+r^2-2 r R-4 R^2\right)^2\right)\right\}$$

$$\left\{\text{X9, MITTENPUNKT, X74, ISOGONAL CONJUGATE OF EULER INFINITY POINT,}\right.$$
$$\left(R \left(-2 l^4 r+6 l^2 r^3+16 l^4 R-3 l^2 r^2 R+9 r^4 R-132 l^2 r R^2+108 r^3 R^2-\right.\right.$$
$$\left.\left.\left.204 l^2 R^3+468 r^2 R^3+864 r R^4+576 R^5\right)\right) \Big/ \left((r+4 R)^2 \left(-2 l^2+2 r^2+8 r R+9 R^2\right)\right)\right\}$$

$$\{X9, \text{MITTENPUNKT}, X75, \text{ISOTOMIC CONJUGATE OF INCENTER}, -\left(\left(l^6 r^2 + 3 l^4 r^4 + 3 l^2 r^6 + r^8 + 12 l^4 r^3 R + 20 r^7 R - 4 l^6 R^2 + 24 l^4 r^2 R^2 - 180 l^2 r^4 R^2 + 160 r^6 R^2 + 96 l^4 r R^3 - 672 l^2 r^3 R^3 + 640 r^5 R^3 - 576 l^2 r^2 R^4 + 1280 r^4 R^4 + 1024 r^3 R^5\right) / \left((r + 4 R)^2 \left(l^2 + r^2 + 4 r R\right)^2\right)\right)\}$$

$$\{X9, \text{MITTENPUNKT}, X76, \text{3rd BROCARD POINT}, -\frac{1}{(r + 4 R)^2 \left(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\right)^2} \left(l^{10} r^2 + 5 l^8 r^4 + 10 l^6 r^6 + 10 l^4 r^8 + 5 l^2 r^{10} + r^{12} - 12 l^8 r^3 R - 8 l^6 r^5 R + 48 l^4 r^7 R + 72 l^2 r^9 R + 28 r^{11} R - 4 l^{10} R^2 - 16 l^8 r^2 R^2 + 40 l^6 r^4 R^2 - 192 l^4 r^6 R^2 + 348 l^2 r^8 R^2 + 336 r^{10} R^2 + 64 l^8 r R^3 + 192 l^6 r^3 R^3 - 1408 l^4 r^5 R^3 + 448 l^2 r^7 R^3 + 2240 r^9 R^3 + 128 l^6 r^2 R^4 - 2560 l^4 r^4 R^4 - 1152 l^2 r^6 R^4 + 8960 r^8 R^4 - 2048 l^4 r^3 R^5 - 3072 l^2 r^5 R^5 + 21 504 r^7 R^5 - 1024 l^2 r^4 R^6 + 28 672 r^6 R^6 + 16 384 r^5 R^7\right)\}$$

$$\{X9, \text{MITTENPUNKT}, X77, \text{ISOGONAL CONJUGATE OF } X(33), -\left(\left(R \left(-4 l^6 r + 2 l^4 r^3 - 2 l^2 r^5 - 4 l^6 R + 36 l^4 r^2 R - 27 l^2 r^4 R + r^6 R + 120 l^4 r R^2 - 160 l^2 r^3 R^2 + 20 r^5 R^2 + 32 l^4 R^3 - 500 l^2 r^2 R^3 + 160 r^4 R^3 - 672 l^2 r R^4 + 640 r^3 R^4 - 64 l^2 R^5 + 1280 r^2 R^5 + 1024 r R^6\right)\right) / \left((r + 4 R)^2 \left(-l^2 + r R + 4 R^2\right)^2\right)\right)\}$$

$$\{X9, \text{MITTENPUNKT}, X78, \text{ISOGONAL CONJUGATE OF } X(34), -\frac{R \left(-6 l^2 r^3 + 2 r^5 - 7 l^2 r^2 R + 21 r^4 R - 8 l^2 r R^2 + 76 r^3 R^2 - 4 l^2 R^3 + 112 r^2 R^3 + 64 r R^4\right)}{(r - R)^2 (r + 4 R)^2}\}$$

$$\{X9, \text{MITTENPUNKT}, X79, \text{ISOGONAL CONJUGATE OF } X(35), -\frac{4 (r + 3 R)^2 \left(4 l^2 r^2 - 3 l^2 r R + r^3 R - l^2 R^2 + 8 r^2 R^2 + 16 r R^3\right)}{(2 r + 3 R)^2 (r + 4 R)^2}\}$$

$$\{X9, \text{MITTENPUNKT}, X80, \text{REFLECTION OF INCENTER IN FEUERBACH POINT}, \frac{4 (r + R)^2 \left(-l^2 r + r^3 - l^2 R + 8 r^2 R + 16 r R^2\right)}{(2 r - R) (r + 4 R)^2}\}$$

$$\{X9, \text{MITTENPUNKT}, X81, \text{CEVAPOINT OF INCENTER AND SYMMEDIAN POINT}, -\left(\left(R \left(-4 l^6 r + 6 l^4 r^3 + 2 l^2 r^5 - 4 l^6 R + 20 l^4 r^2 R + 29 l^2 r^4 R + r^6 R + 56 l^4 r R^2 + 88 l^2 r^3 R^2 + 12 r^5 R^2 + 124 l^2 r^2 R^3 + 48 r^4 R^3 + 64 r^3 R^4\right)\right) / \left((r + 4 R)^2 \left(-l^2 + r^2 + r R\right)^2\right)\right)\}$$

$$\{X9, \text{MITTENPUNKT}, X82, \text{ISOGONAL CONJUGATE OF } X(38), -\frac{1}{(r + 4 R)^2 \left(l^4 - 4 l^2 r^2 + 3 r^4 - 9 l^2 r R + 19 r^3 R + 28 r^2 R^2\right)^2} R \left(-4 l^{10} r + 26 l^8 r^3 - 48 l^6 r^5 + 36 l^4 r^7 - 12 l^2 r^9 + 2 r^{11} - 4 l^{10} R + 92 l^8 r^2 R - 323 l^6 r^4 R + 407 l^4 r^6 R - 213 l^2 r^8 R + 49 r^{10} R + 120 l^8 r R^2 - 968 l^6 r^3 R^2 + 1988 l^4 r^5 R^2 - 1608 l^2 r^7 R^2 + 500 r^9 R^2 - 1188 l^6 r^2 R^3 + 5080 l^4 r^4 R^3 - 6420 l^2 r^6 R^3 + 2720 r^8 R^3 + 5344 l^4 r^3 R^4 - 13 344 l^2 r^5 R^4 + 8320 r^7 R^4 - 11 328 l^2 r^4 R^5 + 13 568 r^6 R^5 + 9216 r^5 R^6\right)\}$$

$$\{X9, \text{MITTENPUNKT}, X83, \text{CEVAPOINT OF CENTROID AND SYMMEDIAN POINT}, -\frac{1}{(r + 4 R)^2 \left(5 l^4 - 6 l^2 r^2 + 5 r^4 - 40 l^2 r R + 40 r^3 R + 80 r^2 R^2\right)^2} \left(9 l^{10} r^2 + 21 l^8 r^4 + 10 l^6 r^6 - 6 l^4 r^8 - 3 l^2 r^{10} + r^{12} - 48 l^{10} r R + 132 l^8 r^3 R - 152 l^6 r^5 R + 32 l^4 r^7 R - 120 l^2 r^9 R + 28 r^{11} R - 36 l^{10} R^2 + 912 l^8 r^2 R^2 - 1976 l^6 r^4 R^2 + 1568 l^4 r^6 R^2 - 1572 l^2 r^8 R^2 + 336 r^{10} R^2 + 960 l^8 r R^3 - 7488 l^6 r^3 R^3 + 11 008 l^4 r^5 R^3 - 9792 l^2 r^7 R^3 + 2240 r^9 R^3 - 7552 l^6 r^2 R^4 + 28 672 l^4 r^4 R^4 - 31 872 l^2 r^6 R^4 + 8960 r^8 R^4 + 24 576 l^4 r^3 R^5 - 52 224 l^2 r^5 R^5 + 21 504 r^7 R^5 - 33 792 l^2 r^4 R^6 + 28 672 r^6 R^6 + 16 384 r^5 R^7\right)\}$$

$$\{X9, \text{MITTENPUNKT}, X84, \text{ISOGONAL CONJUGATE OF } X(40), \frac{16 R^3 \left(2 l^2 r - 4 l^2 R + r^2 R + 8 r R^2 + 16 R^3\right)}{r^2 (r + 4 R)^2}\}$$

$$\{X9,\ \text{MITTENPUNKT},\ X85,\ \text{ISOTOMIC CONJUGATE OF } X(9),$$
$$-\left(\left(l^6 r^2+3 l^4 r^4+3 l^2 r^6+r^8+36 l^4 r^3 R+32 l^2 r^5 R+28 r^7 R-4 l^6 R^2+152 l^4 r^2 R^2+28 l^2 r^4 R^2+336 r^6 R^2+256 l^4 r R^3-832 l^2 r^3 R^3+2240 r^5 R^3+128 l^4 R^4-3712 l^2 r^2 R^4+8960 r^4 R^4-5120 l^2 r R^5+21504 r^3 R^5-1024 l^2 R^6+28672 r^2 R^6+16384 r R^7\right)\Big/\left((r+4R)^2\left(l^2+r^2+8 r R+16 R^2\right)^2\right)\right)\}$$

$$\{X9,\ \text{MITTENPUNKT},\ X86,\ \text{CEVAPOINT OF INCENTER AND CENTROID},$$
$$-\left(\left(9 l^6 r^2+19 l^4 r^4+11 l^2 r^6+r^8-48 l^6 r R+92 l^4 r^3 R+128 l^2 r^5 R+20 r^7 R-36 l^6 R^2+184 l^4 r^2 R^2+588 l^2 r^4 R^2+160 r^6 R^2+480 l^4 r R^3+1376 l^2 r^3 R^3+640 r^5 R^3+1472 l^2 r^2 R^4+1280 r^4 R^4+1024 r^3 R^5\right)\Big/\left((r+4R)^2\left(5 l^2+r^2+4 r R\right)^2\right)\right)\}$$

$$\{X9,\ \text{MITTENPUNKT},\ X87,\ X(2)\text{-CROSS CONJUGATE OF } X(1),$$
$$\frac{1}{(r+4R)^2\left(l^4+2 l^2 r^2+r^4-20 l^2 r R+12 r^3 R+32 r^2 R^2\right)^2}$$
$$4R\left(l^{10} r+5 l^8 r^3+10 l^6 r^5+10 l^4 r^7+5 l^2 r^9+r^{11}+l^{10} R-32 l^8 r^2 R-66 l^6 r^4 R-12 l^4 r^6 R+41 l^2 r^8 R+20 r^{10} R-40 l^8 r R^2+296 l^6 r^3 R^2-216 l^4 r^5 R^2+120 l^2 r^7 R^2+160 r^9 R^2+528 l^6 r^2 R^3-608 l^4 r^4 R^3+272 l^2 r^6 R^3+640 r^8 R^3-2304 l^4 r^3 R^4+512 l^2 r^5 R^4+1280 r^7 R^4+1024 r^6 R^5\right)\}$$

$$\{X9,\ \text{MITTENPUNKT},\ X88,\ \text{ISOGONAL CONJUGATE OF } X(44),$$
$$-\left(\left(R\left(-4 l^6 r-14 l^4 r^3-18 l^2 r^5-4 l^6 R+140 l^4 r^2 R+189 l^2 r^4 R+81 r^6 R+136 l^4 r R^2-1512 l^2 r^3 R^2+972 r^5 R^2-1476 l^2 r^2 R^3+3888 r^4 R^3+5184 r^3 R^4\right)\right)\Big/\left((r+4R)^2\left(l^2+3 r^2-15 r R\right)^2\right)\right)\}$$

$$\{X9,\ \text{MITTENPUNKT},\ X89,\ \text{ISOGONAL CONJUGATE OF } X(45),$$
$$-\left(\left(R\left(-16 l^6 r+52 l^4 r^3+36 l^2 r^5-16 l^6 R-88 l^4 r^2 R+837 l^2 r^4 R+81 r^6 R+112 l^4 r R^2+1080 l^2 r^3 R^2+972 r^5 R^2+1980 l^2 r^2 R^3+3888 r^4 R^3+5184 r^3 R^4\right)\right)\Big/\left((r+4R)^2\left(-2 l^2+6 r^2-3 r R\right)^2\right)\right)\}$$

$$\{X9,\ \text{MITTENPUNKT},\ X90,\ X(3)\text{-CROSS CONJUGATE OF } X(1),$$
$$-\frac{4R^3\left(-2 l^2 r^3+l^2 r^2 R-l^2 r R^2+r^3 R^2-l^2 R^3+8 r^2 R^3+16 r R^4\right)}{(r+4R)^2\left(r^2+2 r R-R^2\right)^2}\}$$

$$\{X9,\ \text{MITTENPUNKT},\ X91,\ \text{ISOGONAL CONJUGATE OF } X(47),$$
$$-\frac{1}{(r+4R)^2\left(l^2 r+r^3-l^2 R+3 r^2 R+2 r R^2+2 R^3\right)^2}$$
$$\left(l^6 r^4+3 l^4 r^6+3 l^2 r^8+r^{10}-2 l^6 r^3 R+10 l^4 r^5 R+2 l^2 r^7 R+22 r^9 R-8 l^6 r^2 R^2+44 l^4 r^4 R^2-176 l^2 r^6 R^2+204 r^8 R^2-12 l^6 r R^3+236 l^4 r^3 R^3-940 l^2 r^5 R^3+1036 r^7 R^3-4 l^6 R^4+312 l^4 r^2 R^4-2096 l^2 r^4 R^4+3140 r^6 R^4+144 l^4 r R^5-2488 l^2 r^3 R^5+5832 r^5 R^5+16 l^4 R^6-1488 l^2 r^2 R^6+6624 r^4 R^6-368 l^2 r R^7+4496 r^3 R^7-16 l^2 R^8+1664 r^2 R^8+256 r R^9\right)\}$$

$$\{X9,\ \text{MITTENPUNKT},\ X92,\ \text{CEVAPOINT OF INCENTER AND CLAWSON POINT},$$
$$-\frac{1}{(r+4R)^2\left(l^2+r^2-4R^2\right)^2}\left(l^6 r^2+3 l^4 r^4+3 l^2 r^6+r^8+12 l^4 r^3 R+20 r^7 R-4 l^6 R^2+48 l^4 r^2 R^2-148 l^2 r^4 R^2+168 r^6 R^2+128 l^4 r R^3-672 l^2 r^3 R^3+768 r^5 R^3+32 l^4 R^4-1168 l^2 r^2 R^4+2064 r^4 R^4-768 l^2 r R^5+3264 r^3 R^5-64 l^2 R^6+2816 r^2 R^6+1024 r R^7\right)\}$$

$$\{X9,\ \text{MITTENPUNKT},\ X93,\ \text{ISOGONAL CONJUGATE OF } X(49),$$
$$-\left(\left(l^{10} r^2+5 l^8 r^4+10 l^6 r^6+10 l^4 r^8+5 l^2 r^{10}+r^{12}-12 l^8 r^3 R-8 l^6 r^5 R+48 l^4 r^7 R+72 l^2 r^9 R+28 r^{11} R-4 l^{10} R^2-34 l^8 r^2 R^2+44 l^6 r^4 R^2-120 l^4 r^6 R^2+408 l^2 r^8 R^2+346 r^{10} R^2+44 l^8 r R^3+556 l^6 r^3 R^3-1340 l^4 r^5 R^3+1140 l^2 r^7 R^3+2480 r^9 R^3+16 l^8 R^4+836 l^6 r^2 R^4-4392 l^4 r^4 R^4+1700 l^2 r^6 R^4+11392 r^8 R^4+76 l^6 r R^5-7600 l^4 r^3 R^5+2244 l^2 r^5 R^5+34944 r^7 R^5+40 l^6 R^6-6218 l^4 r^2 R^6+5760 l^2 r^4 R^6+72226 r^6 R^6-1380 l^4 r R^7+10964 l^2 r^3 R^7+98848 r^5 R^7-176 l^4 R^8+8859 l^2 r^2 R^8+85191 r^4 R^8+1852 l^2 r R^9+41556 r^3 R^9+44 l^2 R^{10}+9036 r^2 R^{10}+416 r R^{11}-64 R^{12}\right)\Big/\left((r+4R)^2\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-8 l^2 R^2+24 r^2 R^2+32 r R^3+13 R^4\right)^2\right)\right)\}$$

$$\{X9,\ \text{MITTENPUNKT},\ X94,\ \text{ISOGONAL CONJUGATE OF } X(50),$$
$$-\Big(\big(l^{10} r^2 + 5 l^8 r^4 + 10 l^6 r^6 + 10 l^4 r^8 + 5 l^2 r^{10} + r^{12} - 12 l^8 r^3 R - 8 l^6 r^5 R + 48 l^4 r^7 R + 72 l^2 r^9 R + 28 r^{11} R - 4 l^{10} R^2 - 40 l^8 r^2 R^2 + 28 l^6 r^4 R^2 - 132 l^4 r^6 R^2 + 408 l^2 r^8 R^2 + 348 r^{10} R^2 + 40 l^8 r R^3 + 576 l^6 r^3 R^3 - 1432 l^4 r^5 R^3 + 1072 l^2 r^7 R^3 + 2528 r^9 R^3 + 914 l^6 r^2 R^4 - 4294 l^4 r^4 R^4 + 798 l^2 r^6 R^4 + 11894 r^8 R^4 + 264 l^6 r R^5 - 6320 l^4 r^3 R^5 - 2688 l^2 r^5 R^5 + 37944 r^7 R^5 + 72 l^6 R^6 - 4368 l^4 r^2 R^6 - 8284 l^2 r^4 R^6 + 83500 r^6 R^6 - 936 l^4 r R^7 - 10416 l^2 r^3 R^7 + 126400 r^5 R^7 - 6939 l^2 r^2 R^8 + 128721 r^4 R^8 - 2376 l^2 r R^9 + 83916 r^3 R^9 - 324 l^2 R^{10} + 31536 r^2 R^{10} + 5184 r R^{11}\big) \Big/ \big((r+4R)^2 \left(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 12 l^2 R^2 + 28 r^2 R^2 + 48 r R^3 + 27 R^4\right)^2\big)\Big)\}$$

$$\{X9,\ \text{MITTENPUNKT},\ X95,\ \text{CEVAPOINT OF CENTROID AND CIRCUMCENTER},$$
$$-\Big(\big(l^{10} r^2 + 21 l^8 r^4 + 58 l^6 r^6 + 58 l^4 r^8 + 21 l^2 r^{10} + r^{12} - 44 l^8 r^3 R - 648 l^6 r^5 R + 272 l^4 r^7 R + 392 l^2 r^9 R + 28 r^{11} R - 4 l^{10} R^2 - 24 l^8 r^2 R^2 + 1272 l^6 r^4 R^2 - 896 l^4 r^6 R^2 + 3020 l^2 r^8 R^2 + 344 r^{10} R^2 + 64 l^8 r R^3 + 576 l^6 r^3 R^3 - 7040 l^4 r^5 R^3 + 12288 l^2 r^7 R^3 + 2432 r^9 R^3 + 32 l^8 R^4 + 432 l^6 r^2 R^4 - 12464 l^4 r^4 R^4 + 27984 l^2 r^6 R^4 + 10896 r^8 R^4 - 384 l^6 r R^5 - 5696 l^4 r^3 R^5 + 34944 l^2 r^5 R^5 + 32064 r^7 R^5 - 64 l^6 R^6 - 3456 l^4 r^2 R^6 + 23232 l^2 r^4 R^6 + 61952 r^6 R^6 + 512 l^4 r R^7 + 11776 l^2 r^3 R^7 + 75776 r^5 R^7 + 7168 l^2 r^2 R^8 + 53248 r^4 R^8 + 16384 r^3 R^9\big) \Big/ \big((r+4R)^2 \left(l^4 + 18 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 4 l^2 R^2 + 20 r^2 R^2 + 16 r R^3\right)^2\big)\Big)\}$$

$$\{X9,\ \text{MITTENPUNKT},\ X96,\ \text{ISOGONAL CONJUGATE OF } X(52),$$
$$\frac{1}{(r+4R)^2 \left(l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2 - 4 R^4\right)^2}$$
$$\big(l^{10} r^2 - 11 l^8 r^4 - 38 l^6 r^6 - 38 l^4 r^8 - 11 l^2 r^{10} + r^{12} + 4 l^{10} r R - 92 l^8 r^3 R + 400 l^6 r^5 R - 288 l^4 r^7 R - 244 l^2 r^9 R + 28 r^{11} R - 12 l^{10} R^2 + 148 l^8 r^2 R^2 + 112 l^6 r^4 R^2 + 80 l^4 r^6 R^2 - 2340 l^2 r^8 R^2 + 348 r^{10} R^2 + 256 l^8 r R^3 - 2512 l^6 r^3 R^3 + 6592 l^4 r^5 R^3 - 12688 l^2 r^7 R^3 + 2528 r^9 R^3 + 192 l^8 R^4 - 4952 l^6 r^2 R^4 + 24072 l^4 r^4 R^4 - 42728 l^2 r^6 R^4 + 11896 r^8 R^4 - 3424 l^6 r R^5 + 37952 l^4 r^3 R^5 - 92544 l^2 r^5 R^5 + 37984 r^7 R^5 - 928 l^6 R^6 + 30624 l^4 r^2 R^6 - 129408 l^2 r^4 R^6 + 83840 r^6 R^6 + 12416 l^4 r R^7 - 114624 l^2 r^3 R^7 + 128000 r^5 R^7 + 2048 l^4 R^8 - 61488 l^2 r^2 R^8 + 133264 r^4 R^8 - 18112 l^2 r R^9 + 91840 r^3 R^9 - 2240 l^2 R^{10} + 39744 r^2 R^{10} + 9728 r R^{11} + 1024 R^{12}\big)\}$$

$$\{X9,\ \text{MITTENPUNKT},\ X97,\ \text{ISOGONAL CONJUGATE OF } X(53),$$
$$-\Big(\big(R\,(-4 l^{10} r + 36 l^8 r^3 - 76 l^6 r^5 + 12 l^4 r^7 - 4 l^{10} R + 70 l^8 r^2 R - 222 l^6 r^4 R + 146 l^4 r^6 R - 6 l^2 r^8 R + 140 l^8 r R^2 - 856 l^6 r^3 R^2 + 852 l^4 r^5 R^2 - 104 l^2 r^7 R^2 + 40 l^8 R^3 - 1179 l^6 r^2 R^3 + 2767 l^4 r^4 R^3 - 733 l^2 r^6 R^3 + r^8 R^3 - 1000 l^6 r R^4 + 5108 l^4 r^3 R^4 - 2752 l^2 r^5 R^4 + 20 r^7 R^4 - 132 l^6 R^5 + 4976 l^4 r^2 R^5 - 6068 l^2 r^4 R^5 + 168 r^6 R^5 + 2656 l^4 r R^6 - 8224 l^2 r^3 R^6 + 768 r^5 R^6 + 160 l^4 R^7 - 6800 l^2 r^2 R^7 + 2064 r^4 R^7 - 2816 l^2 r R^8 + 3264 r^3 R^8 - 64 l^2 R^9 + 2816 r^2 R^9 + 1024 r R^{10}\big)\big) \Big/ \big((r+4R)^2 \left(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 7 l^2 R^2 + 23 r^2 R^2 + 28 r R^3 + 12 R^4\right)^2\big)\Big)\}$$

$$\{X9,\ \text{MITTENPUNKT},\ X98,\ \text{TarryPoint},$$
$$\big(l^6 r^2 + 3 l^4 r^4 + 3 l^2 r^6 + r^8 + 4 l^6 r R - 28 l^4 r^3 R + 20 l^2 r^5 R + 20 r^7 R - 12 l^6 R^2 + 12 l^4 r^2 R^2 - 20 l^2 r^4 R^2 + 164 r^6 R^2 + 128 l^4 r R^3 - 384 l^2 r^3 R^3 + 704 r^5 R^3 + 64 l^4 R^4 - 832 l^2 r^2 R^4 + 1664 r^4 R^4 - 512 l^2 r R^5 + 2048 r^3 R^5 + 1024 r^2 R^6\big) \Big/ \big((r+4R)^2 \left(l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\right)\big)\}$$

$$\{X9,\ \text{MITTENPUNKT},\ X99,\ \text{STEINER POINT},$$
$$-\Big(\big(l^6 r^2 + 3 l^4 r^4 + 3 l^2 r^6 + r^8 + 28 l^4 r^3 R + 16 l^2 r^5 R + 20 r^7 R - 4 l^6 R^2 - 72 l^4 r^2 R^2 + 12 l^2 r^4 R^2 + 160 r^6 R^2 + 32 l^4 r R^3 + 96 l^2 r^3 R^3 + 640 r^5 R^3 + 448 l^2 r^2 R^4 + 1280 r^4 R^4 + 1024 r^3 R^5\big) \Big/ \big((r+4R)^2 \left(l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\right)\big)\Big)\}$$

$$\{X9,\ \text{MITTENPUNKT},\ X100,\ \text{ANTICOMPLEMENT OF FEUERBACH POINT},$$
$$\frac{R\left(5 l^2 r^2 + r^4 - 8 l^2 r R + 12 r^3 R - 4 l^2 R^2 + 48 r^2 R^2 + 64 r R^3\right)}{(2r - R)\,(r+4R)^2}\}$$

$$\{X10,\ \text{SPIEKER CENTER},\ X11,\ \text{FEUERBACH POINT},\ -\frac{R\left(l^2 + 5 r^2 - 16 r R\right)}{4\,(2r - R)}\}$$

$$\left\{\text{X10, SPIEKER CENTER, X12, \{X(1),X(5)\}-HARMONIC CONJUGATE OF X(11)}, -\frac{R\left(-2 l^2 r+6 r^3-l^2 R+19 r^2 R+16 r R^2\right)}{4 (2 r+R)^2}\right\}$$

$$\left\{\text{X10, SPIEKER CENTER, X13, FERMAT POINT}, \frac{\left(\sqrt{3}\, l+r\right)^2 \left(l^2-3 r^2-12 r R\right)}{12 \left(l^2+2 \sqrt{3}\, l r-r^2-4 r R\right)}\right\}$$

$$\left\{\text{X10, SPIEKER CENTER, X14, 2nd ISOGONIC CENTER}, \frac{\left(\sqrt{3}\, l-r\right)^2 \left(l^2-3 r^2-12 r R\right)}{12 \left(l^2-2 \sqrt{3}\, l r-r^2-4 r R\right)}\right\}$$

$$\left\{\text{X10, SPIEKER CENTER, X15, 1st ISODYNAMIC POINT}, \frac{l^4-2 \sqrt{3}\, l^3 r+8 l^2 r^2+6 \sqrt{3}\, l r^3-r^4-12 l^2 r R+8 \sqrt{3}\, l r^2 R-4 r^3 R}{4 \left(l^2+2 \sqrt{3}\, l r-r^2-4 r R\right)}\right\}$$

$$\left\{\text{X10, SPIEKER CENTER, X16, 2nd ISODYNAMIC POINT}, \frac{l^4+2 \sqrt{3}\, l^3 r+8 l^2 r^2-6 \sqrt{3}\, l r^3-r^4-12 l^2 r R-8 \sqrt{3}\, l r^2 R-4 r^3 R}{4 \left(l^2-2 \sqrt{3}\, l r-r^2-4 r R\right)}\right\}$$

$$\left\{\text{X10, SPIEKER CENTER, X17, 1st NAPOLEON POINT}, \frac{\left(\sqrt{3}\, l+3 r\right)^2 \left(3 l^4+2 \sqrt{3}\, l^3 r+12 l^2 r^2-6 \sqrt{3}\, l r^3+r^4-48 l^2 r R-24 \sqrt{3}\, l r^2 R+8 r^3 R+16 r^2 R^2\right)}{4 \left(3 l^2+10 \sqrt{3}\, l r-3 r^2-12 r R\right)^2}\right\}$$

$$\left\{\text{X10, SPIEKER CENTER, X18, 2nd NAPOLEON POINT}, -\frac{\left(\sqrt{3}\, l-3 r\right)^2 \left(-3 l^4+2 \sqrt{3}\, l^3 r-12 l^2 r^2-6 \sqrt{3}\, l r^3-r^4+48 l^2 r R-24 \sqrt{3}\, l r^2 R-8 r^3 R-16 r^2 R^2\right)}{4 \left(3 l^2-10 \sqrt{3}\, l r-3 r^2-12 r R\right)^2}\right\}$$

$$\left\{\text{X10, SPIEKER CENTER, X19, CLAWSON POINT}, -\frac{\left(l^2-r^2-2 r R\right)^2 \left(3 l^2-r^2-8 r R-16 R^2\right)}{4 \left(l^2-r^2-6 r R-8 R^2\right)^2}\right\}$$

$$\left\{\text{X10, SPIEKER CENTER, X20, DE LONGCHAMPS POINT}, \frac{1}{4} \left(-15 l^2+21 r^2+64 r R+64 R^2\right)\right\}$$

$$\left\{\text{X10, SPIEKER CENTER, X21, SCHIFFLER POINT}, \frac{(2 r-R) \left(-2 l^2 r+6 r^3-l^2 R+19 r^2 R+16 r R^2\right)}{4 (2 r+3 R)^2}\right\}$$

$$\left\{\text{X10, SPIEKER CENTER, X22, ExeterPoint}, -\frac{1}{4 \left(l^2-r^2-4 r R-3 R^2\right)^2} \left(l^6-5 l^4 r^2+7 l^2 r^4-3 r^6-12 l^4 r R+40 l^2 r^3 R-28 r^5 R-4 l^4 R^2+64 l^2 r^2 R^2-92 r^4 R^2+28 l^2 r R^3-124 r^3 R^3-l^2 R^4-53 r^2 R^4+16 r R^5\right)\right\}$$

$$\left\{\text{X10, SPIEKER CENTER, X23, FarOutPoint}, -\frac{2 l^4-8 l^2 r^2+6 r^4-16 l^2 r R+32 r^3 R+l^2 R^2+37 r^2 R^2-16 r R^3}{4 \left(2 l^2-2 r^2-8 r R-9 R^2\right)}\right\}$$

$$\left\{\text{X10, SPIEKER CENTER, X24, PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE}, -\frac{1}{4 \left(l^2-r^2-4 r R-5 R^2\right)^2} \left(l^6-5 l^4 r^2+7 l^2 r^4-3 r^6-12 l^4 r R+40 l^2 r^3 R-28 r^5 R-8 l^4 R^2+80 l^2 r^2 R^2-104 r^4 R^2+60 l^2 r R^3-188 r^3 R^3+19 l^2 R^4-161 r^2 R^4-56 r R^5-16 R^6\right)\right\}$$

$$\left\{\text{X10, SPIEKER CENTER, X25, HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES,}\right.$$
$$\left.-\frac{1}{4\left(l^2-r^2-4\,r\,R-6\,R^2\right)^2}\left(l^6-5\,l^4\,r^2+7\,l^2\,r^4-3\,r^6-12\,l^4\,r\,R+40\,l^2\,r^3\,R-28\,r^5\,R-4\,l^4\,R^2+72\,l^2\,r^2\,R^2-100\,r^4\,R^2+24\,l^2\,r\,R^3-152\,r^3\,R^3-4\,l^2\,R^4-52\,r^2\,R^4+64\,r\,R^5\right)\right\}$$

$$\left\{\text{X10, SPIEKER CENTER, X26, CIRCUMCENTER OF THE TANGENTIAL TRIANGLE,}\right.$$
$$\left.-\left(\left(l^6-5\,l^4\,r^2+7\,l^2\,r^4-3\,r^6-12\,l^4\,r\,R+40\,l^2\,r^3\,R-28\,r^5\,R-6\,l^4\,R^2+72\,l^2\,r^2\,R^2-98\,r^4\,R^2+44\,l^2\,r\,R^3-156\,r^3\,R^3+8\,l^2\,R^4-104\,r^2\,R^4-16\,r\,R^5-4\,R^6\right)\Big/\left(4\,(l-r-2\,R)^2\,(l+r+2\,R)^2\right)\right)\right\}$$

$$\left\{\text{X10, SPIEKER CENTER, X27, CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER,}\right.$$
$$\left.-\left(\left(15\,l^6-23\,l^4\,r^2+21\,l^2\,r^4-5\,r^6-72\,l^4\,r\,R+96\,l^2\,r^3\,R-24\,r^5\,R-72\,l^4\,R^2+128\,l^2\,r^2\,R^2+8\,r^4\,R^2+32\,l^2\,r\,R^3+224\,r^3\,R^3-16\,l^2\,R^4+432\,r^2\,R^4+256\,r\,R^5\right)\Big/\left(4\left(l^2-3\,r^2-12\,r\,R-12\,R^2\right)^2\right)\right)\right\}$$

$$\left\{\text{X10, SPIEKER CENTER, X28, CEVAPOINT OF X(19) AND X(25),}\right.$$
$$\left.-\frac{1}{4\left(l^2-r^2-5\,r\,R-6\,R^2\right)^2}\left(l^6-5\,l^4\,r^2+7\,l^2\,r^4-3\,r^6-8\,l^4\,r\,R+32\,l^2\,r^3\,R-24\,r^5\,R-4\,l^4\,R^2+39\,l^2\,r^2\,R^2-65\,r^4\,R^2+4\,l^2\,r\,R^3-52\,r^3\,R^3-4\,l^2\,R^4+44\,r^2\,R^4+64\,r\,R^5\right)\right\}$$

$$\left\{\text{X10, SPIEKER CENTER, X29, CEVAPOINT OF INCENTER AND ORTHOCENTER,}\right.$$
$$\left.\left(l^6+7\,l^4\,r^2-37\,l^2\,r^4+21\,r^6-16\,l^4\,r\,R-144\,l^2\,r^3\,R+192\,r^5\,R-8\,l^4\,R^2-80\,l^2\,r^2\,R^2+632\,r^4\,R^2+128\,l^2\,r\,R^3+832\,r^3\,R^3+16\,l^2\,R^4+208\,r^2\,R^4-256\,r\,R^5\right)\Big/\left(4\left(3\,l^2-r^2-8\,r\,R-12\,R^2\right)^2\right)\right\}$$

$$\left\{\text{X10, SPIEKER CENTER, X30, EulerInfinityPoint, }\infty\right\}$$

$$\left\{\text{X10, SPIEKER CENTER, X31, SecondPowerPoint,}\right.$$
$$\left.\frac{l^6+7\,l^4\,r^2-37\,l^2\,r^4+21\,r^6-20\,l^4\,r\,R-40\,l^2\,r^3\,R+108\,r^5\,R+68\,l^2\,r^2\,R^2+116\,r^4\,R^2-64\,r^3\,R^3}{4\left(l^2-3\,r^2-6\,r\,R\right)^2}\right\}$$

$$\left\{\text{X10, SPIEKER CENTER, X32, ThirdPowerPoint,}\right.$$
$$\left.\left(l^{10}+5\,l^8\,r^2-86\,l^6\,r^4+138\,l^4\,r^6-27\,l^2\,r^8+r^{10}-24\,l^8\,r\,R-24\,l^6\,r^3\,R+488\,l^4\,r^5\,R-264\,l^2\,r^7\,R+16\,r^9\,R+144\,l^6\,r^2\,R^2+256\,l^4\,r^4\,R^2-816\,l^2\,r^6\,R^2+96\,r^8\,R^2-256\,l^4\,r^3\,R^3-768\,l^2\,r^5\,R^3+256\,r^7\,R^3+256\,r^6\,R^4\right)\Big/\left(4\left(l^2-2\,l\,r-r^2-4\,r\,R\right)^2\left(l^2+2\,l\,r-r^2-4\,r\,R\right)^2\right)\right\}$$

$$\left\{\text{X10, SPIEKER CENTER, X33, PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES,}\right.$$
$$\left.\frac{1}{4\left(l^2-r^2-2\,r\,R-4\,R^2\right)^2}\left(l^6+3\,l^4\,r^2-9\,l^2\,r^4+5\,r^6-20\,l^4\,r\,R-16\,l^2\,r^3\,R+36\,r^5\,R-8\,l^4\,R^2+36\,l^2\,r^2\,R^2+92\,r^4\,R^2+144\,l^2\,r\,R^3+48\,r^3\,R^3+16\,l^2\,R^4-176\,r^2\,R^4-256\,r\,R^5\right)\right\}$$

$$\left\{\text{X10, SPIEKER CENTER, X34, X(4)-BETH CONJUGATE OF X(4),}\right.$$
$$\left.\frac{1}{4\left(l^2-r^2-6\,r\,R-4\,R^2\right)^2}\left(l^6+3\,l^4\,r^2-9\,l^2\,r^4+5\,r^6-28\,l^4\,r\,R+16\,l^2\,r^3\,R+12\,r^5\,R-8\,l^4\,R^2+164\,l^2\,r^2\,R^2-100\,r^4\,R^2+176\,l^2\,r\,R^3-432\,r^3\,R^3+16\,l^2\,R^4-560\,r^2\,R^4-256\,r\,R^5\right)\right\}$$

$$\left\{\text{X10, SPIEKER CENTER, X35, \{X(1),X(3)\}-HARMONIC CONJUGATE OF X(36),}\right.$$
$$\left.\frac{(2\,r-R)\left(-2\,l^2\,r+6\,r^3-l^2\,R+19\,r^2\,R+16\,r\,R^2\right)}{4\,(2\,r+R)^2}\right\}$$

$$\left\{\text{X10, SPIEKER CENTER, X36,}\right.$$
$$\left.\text{INVERSE-IN-CIRCUMCIRCLE OF INCENTER, }\frac{-2\,l^2\,r+6\,r^3-l^2\,R+3\,r^2\,R+16\,r\,R^2}{4\,(2\,r-R)}\right\}$$

$$\left\{\text{X10, SPIEKER CENTER, X37, CrosspointOfIncenterAndCentroid,}\right.$$
$$\left.\frac{l^6+3\,l^4\,r^2+3\,l^2\,r^4+r^6-16\,l^4\,r\,R+24\,l^2\,r^3\,R+8\,r^5\,R+16\,r^4\,R^2}{4\left(l^2+r^2+4\,r\,R\right)^2}\right\}$$

$$\left\{\text{X10, SPIEKER CENTER, X38, CROSSPOINT OF X(1) AND X(75)}, \frac{l^6 - l^4 r^2 - 5 l^2 r^4 - 3 r^6 - 28 l^4 r R + 56 l^2 r^3 R - 44 r^5 R + 228 l^2 r^2 R^2 - 236 r^4 R^2 - 576 r^3 R^3}{4 \left(l^2 + r^2 - 2 r R\right)^2}\right\}$$

$$\left\{\text{X10, SPIEKER CENTER, X39, BrocardMidpoint}, \left(l^{10} + 5 l^8 r^2 + 10 l^6 r^4 + 10 l^4 r^6 + 5 l^2 r^8 + r^{10} - 24 l^8 r R - 56 l^6 r^3 R - 24 l^4 r^5 R + 24 l^2 r^7 R + 16 r^9 R + 144 l^6 r^2 R^2 + 256 l^4 r^4 R^2 - 48 l^2 r^6 R^2 + 96 r^8 R^2 - 256 l^4 r^3 R^3 - 256 l^2 r^5 R^3 + 256 r^7 R^3 + 256 r^6 R^4\right) / \left(4 \left(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\right)^2\right)\right\}$$

$$\left\{\text{X10, SPIEKER CENTER, X40, BEVAN POINT}, \frac{1}{4} \left(-3 l^2 + r^2 + 8 r R + 16 R^2\right)\right\}$$

$$\left\{\text{X10, SPIEKER CENTER, X41, X(6)-CEVA CONJUGATE OF X(31)}, -\left(\left(3 l^6 r^2 - 43 l^4 r^4 + 17 l^2 r^6 - r^8 - 4 l^6 r R - 88 l^4 r^3 R + 156 l^2 r^5 R - 16 r^7 R - 4 l^6 R^2 + 28 l^4 r^2 R^2 + 432 l^2 r^4 R^2 - 96 r^6 R^2 + 64 l^4 r R^3 + 320 l^2 r^3 R^3 - 256 r^5 R^3 - 256 r^4 R^4\right) / \left(4 \left(3 l^2 r - r^3 + 2 l^2 R - 8 r^2 R - 16 r R^2\right)^2\right)\right)\right\}$$

$$\left\{\text{X10, SPIEKER CENTER, X42, CROSSPOINT OF INCENTER AND SYMMEDIAN POINT}, \frac{\left(l^2 + 5 r^2 - 16 r R\right) \left(l^2 + r^2 + 2 r R\right)^2}{4 \left(l^2 + r^2 - 2 r R\right)^2}\right\}$$

$$\left\{\text{X10, SPIEKER CENTER, X43, X(6)-CEVA CONJUGATE OF X(1)}, \frac{\left(l^2 + r^2\right)^2 \left(l^2 + 5 r^2 - 16 r R\right)}{4 \left(l^2 + r^2 - 8 r R\right)^2}\right\}$$

$$\left\{\text{X10, SPIEKER CENTER, X44, X(6)-LINE CONJUGATE OF X(1)}, \frac{l^6 + 11 l^4 r^2 - 45 l^2 r^4 + 9 r^6 - 16 l^4 r R - 72 l^2 r^3 R + 72 r^5 R + 144 r^4 R^2}{4 \left(l^2 - 3 r^2 - 12 r R\right)^2}\right\}$$

$$\left\{\text{X10, SPIEKER CENTER, X45, X(9)-BETH CONJUGATE OF X(1)}, \frac{l^6 - l^4 r^2 - 9 l^2 r^4 + 9 r^6 - 16 l^4 r R + 72 l^2 r^3 R + 72 r^5 R + 144 r^4 R^2}{4 \left(l^2 + 3 r^2 + 12 r R\right)^2}\right\}$$

$$\left\{\text{X10, SPIEKER CENTER, X46, X(4)-CEVA CONJUGATE OF X(1)}, \frac{-3 l^2 r^2 + r^4 + 2 l^2 r R + 2 r^3 R + l^2 R^2 - 3 r^2 R^2 - 16 r R^3}{4 (r - R)^2}\right\}$$

$$\left\{\text{X10, SPIEKER CENTER, X47, X(110)-BETH CONJUGATE OF X(34)}, \frac{1}{4 \left(l^2 - 3 r^2 - 6 r R - 2 R^2\right)^2} \left(l^6 + 7 l^4 r^2 - 37 l^2 r^4 + 21 r^6 - 20 l^4 r R - 40 l^2 r^3 R + 108 r^5 R - 4 l^4 R^2 + 44 l^2 r^2 R^2 + 160 r^4 R^2 + 72 l^2 r R^3 + 8 r^3 R^3 + 4 l^2 R^4 - 108 r^2 R^4 - 64 r R^5\right)\right\}$$

$$\left\{\text{X10, SPIEKER CENTER, X48, CROSSPOINT OF X(1) AND X(63)}, -\frac{1}{4 \left(3 l^2 - r^2 - 6 r R - 8 R^2\right)^2} \left(3 l^6 - 43 l^4 r^2 + 17 l^2 r^4 - r^6 - 12 l^4 r R + 104 l^2 r^3 R - 12 r^5 R - 16 l^4 R^2 + 172 l^2 r^2 R^2 - 52 r^4 R^2 + 64 l^2 r R^3 - 96 r^3 R^3 - 64 r^2 R^4\right)\right\}$$

$$\left\{\text{X10, SPIEKER CENTER, X49, CENTER OF SINE-TRIPLE-ANGLE CIRCLE}, \left(24 l^4 r^2 - 32 l^2 r^4 + 8 r^6 - 8 l^4 r R - 128 l^2 r^3 R + 72 r^5 R + 2 l^4 R^2 - 116 l^2 r^2 R^2 + 234 r^4 R^2 + 28 l^2 r R^3 + 316 r^3 R^3 - 5 l^2 R^4 + 127 r^2 R^4 - 36 r R^5 + 4 R^6\right) / \left(4 \left(2 l^2 - 2 r^2 - 8 r R - 7 R^2\right)^2\right)\right\}$$

$$\{X10,\ \text{SPIEKER CENTER},\ X50,\ X(74)\text{-CEVA CONJUGATE OF } X(184),$$
$$\left(l^{10}+5 l^8 r^2-86 l^6 r^4+138 l^4 r^6-27 l^2 r^8+r^{10}-24 l^8 r R-24 l^6 r^3 R+488 l^4 r^5 R-264 l^2 r^7 R+16 r^9 R-6 l^8 R^2+108 l^6 r^2 R^2+496 l^4 r^4 R^2-924 l^2 r^6 R^2+102 r^8 R^2+120 l^6 r R^3-88 l^4 r^3 R^3-1416 l^2 r^5 R^3+328 r^7 R^3+9 l^6 R^4-321 l^4 r^2 R^4-945 l^2 r^4 R^4+553 r^6 R^4-144 l^4 r R^5-216 l^2 r^3 R^5+456 r^5 R^5+144 r^4 R^6\right)\Big/\left(4\left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-3 l^2 R^2+19 r^2 R^2+12 r R^3\right)^2\right)\}$$

$$\{X10,\ \text{SPIEKER CENTER},\ X51,\ \text{CENTROID OF ORTHIC TRIANGLE},$$
$$-\frac{-2 l^4+12 l^2 r^2-2 r^4+22 l^2 r R-10 r^3 R-l^2 R^2-13 r^2 R^2+16 r R^3}{36 R^2}\}$$

$$\{X10,\ \text{SPIEKER CENTER},\ X52,\ \text{ORTHOCENTER OF ORTHIC TRIANGLE},$$
$$\frac{2 l^4-12 l^2 r^2+2 r^4-18 l^2 r R+14 r^3 R-5 l^2 R^2+31 r^2 R^2+20 r R^3+4 R^4}{4 R^2}\}$$

$$\{X10,\ \text{SPIEKER CENTER},\ X53,\ \text{SYMMEDIAN POINT OF ORTHIC TRIANGLE},$$
$$\left(l^{10}-3 l^8 r^2-14 l^6 r^4-14 l^4 r^6-3 l^2 r^8+r^{10}-24 l^8 r R+88 l^6 r^3 R-56 l^4 r^5 R-24 l^2 r^7 R+16 r^9 R-8 l^8 R^2+128 l^6 r^2 R^2-128 l^4 r^4 R^2-96 l^2 r^6 R^2+104 r^8 R^2+160 l^6 r R^3-352 l^4 r^3 R^3-288 l^2 r^5 R^3+352 r^7 R^3+16 l^6 R^4-400 l^4 r^2 R^4-528 l^2 r^4 R^4+656 r^6 R^4-256 l^4 r R^5-384 l^2 r^3 R^5+640 r^5 R^5+256 r^4 R^6\right)\Big/\left(4\left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-4 l^2 R^2+20 r^2 R^2+16 r R^3\right)^2\right)\}$$

$$\{X10,\ \text{SPIEKER CENTER},\ X54,\ \text{KosnitaPoint},$$
$$\left(24 l^4 r^2-32 l^2 r^4+8 r^6-8 l^4 r R-128 l^2 r^3 R+72 r^5 R+6 l^4 R^2-116 l^2 r^2 R^2+230 r^4 R^2-20 l^2 r R^3+316 r^3 R^3-19 l^2 R^4+193 r^2 R^4+56 r R^5+16 R^6\right)\Big/\left(4\left(2 l^2-2 r^2-8 r R-5 R^2\right)^2\right)\}$$

$$\{X10,\ \text{SPIEKER CENTER},\ X55,\ \text{INSIMILICENTER(CIRCUMCIRCLE, INCIRCLE)},$$
$$\frac{-l^2 r^2+3 r^4+12 r^3 R+l^2 R^2+5 r^2 R^2-16 r R^3}{4 (r+R)^2}\}$$

$$\{X10,\ \text{SPIEKER CENTER},\ X56,\ \text{EXSIMILICENTER(CIRCUMCIRCLE, INCIRCLE)},$$
$$\frac{-l^2 r^2+3 r^4-4 r^3 R+l^2 R^2+13 r^2 R^2-16 r R^3}{4 (r-R)^2}\}$$

$$\{X10,\ \text{SPIEKER CENTER},\ X57,\ \text{ISOGONAL CONJUGATE OF } X(9),$$
$$\frac{-3 l^2 r^2+r^4+4 l^2 r R-4 r^3 R+4 l^2 R^2-12 r^2 R^2-64 r R^3}{4 (r-2 R)^2}\}$$

$$\{X10,\ \text{SPIEKER CENTER},\ X58,\ \text{ISOGONAL CONJUGATE OF } X(10),$$
$$\frac{l^6+7 l^4 r^2-37 l^2 r^4+21 r^6-16 l^4 r R-16 l^2 r^3 R+64 r^5 R+64 r^4 R^2}{4\left(l^2-3 r^2-4 r R\right)^2}\}$$

$$\{X10,\ \text{SPIEKER CENTER},\ X59,\ \text{ISOGONAL CONJUGATE OF } X(11),$$
$$\left(12 l^4 r^3-16 l^2 r^5+4 r^7-l^6 R-9 l^4 r^2 R-75 l^2 r^4 R+45 r^6 R+22 l^4 r R^2-66 l^2 r^3 R^2+176 r^5 R^2+8 l^4 R^3-17 l^2 r^2 R^3+275 r^4 R^3-152 l^2 r R^4+168 r^3 R^4-16 l^2 R^5+176 r^2 R^5+256 r R^6\right)\Big/\left(4 (2 r-R)\left(-l^2+r^2+5 r R+4 R^2\right)^2\right)\}$$

$$\{X10,\ \text{SPIEKER CENTER},\ X60,\ \text{ISOGONAL CONJUGATE OF } X(12),$$
$$\left(24 l^4 r^4-32 l^2 r^6+8 r^8+2 l^6 r R+14 l^4 r^3 R-122 l^2 r^5 R+58 r^7 R+l^6 R^2-27 l^4 r^2 R^2-153 l^2 r^4 R^2+163 r^6 R^2-18 l^4 r R^3-24 l^2 r^3 R^3+202 r^5 R^3+33 l^2 r^2 R^4+85 r^4 R^4-16 r^3 R^5\right)\Big/\left(4\left(2 l^2 r-2 r^3+l^2 R-7 r^2 R-7 r R^2\right)^2\right)\}$$

$$\{X10,\ \text{SPIEKER CENTER},\ X61,\ \text{ISOGONAL CONJUGATE OF } X(17),$$
$$\left(3\left(3 l^6+17 l^4 r^2+24\sqrt{3}\, l^3 r^3-15 l^2 r^4-8\sqrt{3}\, l r^5+3 r^6-48 l^4 r R-8\sqrt{3}\, l^3 r^2 R-56 l^2 r^3 R-40\sqrt{3}\, l r^4 R+24 r^5 R+16 l^2 r^2 R^2-32\sqrt{3}\, l r^3 R^2+48 r^4 R^2\right)\right)\Big/\left(4\left(3 l^2+2\sqrt{3}\, l r-3 r^2-12 r R\right)^2\right)\}$$

$$\left\{X10,\ \text{SPIEKER CENTER},\ X62,\ \text{ISOGONAL CONJUGATE OF } X(18),\ \left(3\left(3 l^6+17 l^4 r^2-24\sqrt{3}\, l^3 r^3-15 l^2 r^4+8\sqrt{3}\, l r^5+3 r^6-48 l^4 r R+8\sqrt{3}\, l^3 r^2 R-56 l^2 r^3 R+40\sqrt{3}\, l r^4 R+24 r^5 R+16 l^2 r^2 R^2+32\sqrt{3}\, l r^3 R^2+48 r^4 R^2\right)\right)\Big/\left(4\left(3 l^2-2\sqrt{3}\, l r-3 r^2-12 r R\right)^2\right)\right\}$$

$$\left\{X10,\ \text{SPIEKER CENTER},\ X63,\ \text{ISOGONAL CONJUGATE OF } X(19),\ \frac{-3 l^2 r^2+r^4+2 l^2 r R+2 r^3 R+l^2 R^2-3 r^2 R^2-16 r R^3}{4 (r+R)^2}\right\}$$

$$\left\{X10,\ \text{SPIEKER CENTER},\ X64,\ \text{ISOGONAL CONJUGATE OF } X(20),\ -\left(\left(3 l^6-3 l^4 r^2+5 l^2 r^4-5 r^6-40 l^4 r R+56 l^2 r^3 R-48 r^5 R-72 l^4 R^2+272 l^2 r^2 R^2-248 r^4 R^2+608 l^2 r R^3-832 r^3 R^3+496 l^2 R^4-1744 r^2 R^4-2048 r R^5-1024 R^6\right)\Big/\left(4 (l-r-2 R)^2 (l+r+2 R)^2\right)\right)\right\}$$

$$\left\{X10,\ \text{SPIEKER CENTER},\ X65,\ \text{ORTHOCENTER OF THE INTOUCH TRIANGLE},\ -\frac{-2 l^2 r+6 r^3-l^2 R+19 r^2 R+16 r R^2}{4 R}\right\}$$

$$\left\{X10,\ \text{SPIEKER CENTER},\ X66,\ \text{ISOGONAL CONJUGATE OF } X(22),\ -\frac{1}{4 (l-r-2 R)^2 (l+r+2 R)^2 \left(l^2-r^2-4 r R\right)^2}\left(l^{10}-11 l^8 r^2+26 l^6 r^4-22 l^4 r^6+5 l^2 r^8+r^{10}-20 l^8 r R+136 l^6 r^3 R-192 l^4 r^5 R+56 l^2 r^7 R+20 r^9 R-4 l^8 R^2+200 l^6 r^2 R^2-608 l^4 r^4 R^2+248 l^2 r^6 R^2+164 r^8 R^2+64 l^6 r R^3-816 l^4 r^3 R^3+544 l^2 r^5 R^3+720 r^7 R^3-384 l^4 r^2 R^4+576 l^2 r^4 R^4+1856 r^6 R^4+192 l^2 r^3 R^5+2880 r^5 R^5-64 l^2 r^2 R^6+2560 r^4 R^6+1024 r^3 R^7\right)\right\}$$

$$\left\{X10,\ \text{SPIEKER CENTER},\ X67,\ \text{ISOGONAL CONJUGATE OF } X(23),\ \left(20 l^6 r^2-36 l^4 r^4+12 l^2 r^6+4 r^8+4 l^6 r R-132 l^4 r^3 R+60 l^2 r^5 R+68 r^7 R-l^6 R^2-159 l^4 r^2 R^2+105 l^2 r^4 R^2+439 r^6 R^2+168 l^2 r^3 R^3+1336 r^5 R^3+192 l^2 r^2 R^4+1904 r^4 R^4+1024 r^3 R^5\right)\Big/\left(4\left(l^2-r^2-4 r R\right)^2\left(2 l^2-2 r^2-8 r R-9 R^2\right)\right)\right\}$$

$$\left\{X10,\ \text{SPIEKER CENTER},\ X68,\ \text{PRASOLOV POINT},\ -\left(\left(l^6-9 l^4 r^2+7 l^2 r^4+r^6-12 l^4 r R+32 l^2 r^3 R+12 r^5 R-8 l^4 R^2+72 l^2 r^2 R^2+48 r^4 R^2+56 l^2 r R^3+72 r^3 R^3+16 l^2 R^4+16 r^2 R^4-32 r R^5-16 R^6\right)\Big/\left(4 (l-r-2 R)^2 (l+r+2 R)^2\right)\right)\right\}$$

$$\left\{X10,\ \text{SPIEKER CENTER},\ X69,\ \text{SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},\ \frac{l^6+11 l^4 r^2-9 l^2 r^4-3 r^6-8 l^4 r R-16 l^2 r^3 R-40 r^5 R-112 l^2 r^2 R^2-176 r^4 R^2-256 r^3 R^3}{4\left(l^2-r^2-4 r R\right)^2}\right\}$$

$$\left\{X10,\ \text{SPIEKER CENTER},\ X70,\ \text{ISOGONAL CONJUGATE OF } X(26),\ -\left(\left(l^{10}-11 l^8 r^2+26 l^6 r^4-22 l^4 r^6+5 l^2 r^8+r^{10}-20 l^8 r R+136 l^6 r^3 R-192 l^4 r^5 R+56 l^2 r^7 R+20 r^9 R-10 l^8 R^2+240 l^6 r^2 R^2-668 l^4 r^4 R^2+272 l^2 r^6 R^2+166 r^8 R^2+156 l^6 r R^3-1164 l^4 r^3 R^3+772 l^2 r^5 R^3+748 r^7 R^3+36 l^6 R^4-1024 l^4 r^2 R^4+1420 l^2 r^4 R^4+2000 r^6 R^4-396 l^4 r R^5+1680 l^2 r^3 R^5+3228 r^5 R^5-58 l^4 R^6+1148 l^2 r^2 R^6+2998 r^4 R^6+364 l^2 r R^7+1340 r^3 R^7+43 l^2 R^8+87 r^2 R^8-88 r R^9-16 R^{10}\right)\Big/\left(4\left(l^4-2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-6 l^2 R^2+22 r^2 R^2+24 r R^3+7 R^4\right)^2\right)\right)\right\}$$

$$\left\{X10,\ \text{SPIEKER CENTER},\ X71,\ \text{ISOGONAL CONJUGATE OF } X(27),\ -\frac{\left(l^2+r^2+2 r R\right)^2\left(3 l^2-r^2-8 r R-16 R^2\right)}{4\left(l^2+r^2+6 r R+8 R^2\right)^2}\right\}$$

$$\left\{X10,\ \text{SPIEKER CENTER},\ X72,\ \text{ISOGONAL CONJUGATE OF } X(28),\ -\frac{-2 l^2 r+6 r^3-l^2 R+19 r^2 R+16 r R^2}{4 R}\right\}$$

$$\left\{X10,\ \text{SPIEKER CENTER},\ X73,\ \text{CROSSPOINT OF INCENTER AND CIRCUMCENTER},\ \frac{1}{4\left(l^2+r^2-2 r R-4 R^2\right)^2}\left(l^6+7 l^4 r^2+11 l^2 r^4+5 r^6-20 l^4 r R-24 l^2 r^3 R-4 r^5 R-8 l^4 R^2-12 l^2 r^2 R^2+12 r^4 R^2+144 l^2 r R^3+112 r^3 R^3+16 l^2 R^4-48 r^2 R^4-256 r R^5\right)\right\}$$

$$\left\{\text{X10, SPIEKER CENTER, X74, ISOGONAL CONJUGATE OF EULER INFINITY POINT}, -\frac{4 l^4 - 4 l^2 r^2 + 8 r^4 - 36 l^2 r R + 44 r^3 R - 51 l^2 R^2 + 129 r^2 R^2 + 216 r R^3 + 144 R^4}{4 \left(2 l^2 - 2 r^2 - 8 r R - 9 R^2\right)}\right\}$$

$$\left\{\text{X10, SPIEKER CENTER, X75, ISOTOMIC CONJUGATE OF INCENTER}, \frac{l^6 - l^4 r^2 - 5 l^2 r^4 - 3 r^6 - 24 l^4 r R + 64 l^2 r^3 R - 40 r^5 R + 144 l^2 r^2 R^2 - 176 r^4 R^2 - 256 r^3 R^3}{4 \left(l^2 + r^2 + 4 r R\right)^2}\right\}$$

$$\left\{\text{X10, SPIEKER CENTER, X76, 3rd BROCARD POINT}, \left(\left(l^2 + r^2 + 4 r R\right)^2 \left(l^6 - l^4 r^2 - 5 l^2 r^4 - 3 r^6 - 24 l^4 r R + 64 l^2 r^3 R - 40 r^5 R + 144 l^2 r^2 R^2 - 176 r^4 R^2 - 256 r^3 R^3\right)\right) / \left(4 \left(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\right)^2\right)\right\}$$

$$\left\{\text{X10, SPIEKER CENTER, X77, ISOGONAL CONJUGATE OF X(33)}, \frac{1}{4 \left(l^2 - r R - 4 R^2\right)^2} \left(l^6 + 5 l^4 r^2 - 22 l^4 r R + 2 l^2 r^3 R - 8 l^4 R^2 + 33 l^2 r^2 R^2 - 3 r^4 R^2 + 152 l^2 r R^3 - 40 r^3 R^3 + 16 l^2 R^4 - 176 r^2 R^4 - 256 r R^5\right)\right\}$$

$$\left\{\text{X10, SPIEKER CENTER, X78, ISOGONAL CONJUGATE OF X(34)}, \frac{(r + R)^2 \left(l^2 + 5 r^2 - 16 r R\right)}{4 (r - R)^2}\right\}$$

$$\left\{\text{X10, SPIEKER CENTER, X79, ISOGONAL CONJUGATE OF X(35)}, -\frac{20 l^2 r^2 + 4 r^4 - 24 l^2 r R + 40 r^3 R - 9 l^2 R^2 + 123 r^2 R^2 + 144 r R^3}{4 (2 r + 3 R)^2}\right\}$$

$$\left\{\text{X10, SPIEKER CENTER, X80, REFLECTION OF INCENTER IN FEUERBACH POINT}, \frac{-2 l^2 r + 6 r^3 - l^2 R + 19 r^2 R + 16 r R^2}{4 (2 r - R)}\right\}$$

$$\left\{\text{X10, SPIEKER CENTER, X81, CEVAPOINT OF INCENTER AND SYMMEDIAN POINT}, \frac{l^6 + 7 l^4 r^2 - 9 l^2 r^4 + r^6 - 14 l^4 r R - 12 l^2 r^3 R + 2 r^5 R - 31 l^2 r^2 R^2 - 3 r^4 R^2 - 16 r^3 R^3}{4 \left(l^2 - r^2 - r R\right)^2}\right\}$$

$$\left\{\text{X10, SPIEKER CENTER, X82, ISOGONAL CONJUGATE OF X(38)}, \left(\left(l^2 - r^2 - 3 r R\right)^2 \left(l^6 + 7 l^4 r^2 - 37 l^2 r^4 + 21 r^6 - 24 l^4 r R - 64 l^2 r^3 R + 152 r^5 R + 144 l^2 r^2 R^2 + 208 r^4 R^2 - 256 r^3 R^3\right)\right) / \left(4 \left(l^4 - 4 l^2 r^2 + 3 r^4 - 9 l^2 r R + 19 r^3 R + 28 r^2 R^2\right)^2\right)\right\}$$

$$\left\{\text{X10, SPIEKER CENTER, X83, CEVAPOINT OF CENTROID AND SYMMEDIAN POINT}, \left(\left(3 l^2 - r^2 - 4 r R\right)^2 \left(l^6 + 7 l^4 r^2 - 37 l^2 r^4 + 21 r^6 - 24 l^4 r R - 64 l^2 r^3 R + 152 r^5 R + 144 l^2 r^2 R^2 + 208 r^4 R^2 - 256 r^3 R^3\right)\right) / \left(4 \left(5 l^4 - 6 l^2 r^2 + 5 r^4 - 40 l^2 r R + 40 r^3 R + 80 r^2 R^2\right)^2\right)\right\}$$

$$\left\{\text{X10, SPIEKER CENTER, X84, ISOGONAL CONJUGATE OF X(40)}, \frac{-3 l^2 r^2 + r^4 + 16 l^2 r R - 8 r^3 R - 16 l^2 R^2 - 16 r^2 R^2 + 64 R^4}{4 r^2}\right\}$$

$$\left\{\text{X10, SPIEKER CENTER, X85, ISOTOMIC CONJUGATE OF X(9)}, \frac{1}{4 \left(l^2 + r^2 + 8 r R + 16 R^2\right)^2} \left(l^6 - l^4 r^2 - 5 l^2 r^4 - 3 r^6 - 48 l^4 r R + 16 l^2 r^3 R - 64 r^5 R - 32 l^4 R^2 + 384 l^2 r^2 R^2 - 544 r^4 R^2 + 1024 l^2 r R^3 - 2304 r^3 R^3 + 256 l^2 R^4 - 4864 r^2 R^4 - 4096 r R^5\right)\right\}$$

$$\left\{\text{X10, SPIEKER CENTER, X86, CEVAPOINT OF INCENTER AND CENTROID}, \frac{9 l^6 + 63 l^4 r^2 - 13 l^2 r^4 - 3 r^6 - 120 l^4 r R - 96 l^2 r^3 R - 40 r^5 R - 368 l^2 r^2 R^2 - 176 r^4 R^2 - 256 r^3 R^3}{4 \left(5 l^2 + r^2 + 4 r R\right)^2}\right\}$$

$$\{X10,\ \text{SPIEKER CENTER},\ X87,\ X(2)\text{-CROSS CONJUGATE OF } X(1),$$
$$\left(l^{10}+9\,l^8\,r^2+26\,l^6\,r^4+34\,l^4\,r^6+21\,l^2\,r^8+5\,r^{10}-40\,l^8\,r\,R-256\,l^6\,r^3\,R-272\,l^4\,r^5\,R+64\,l^2\,r^7\,R+120\,r^9\,R+528\,l^6\,r^2\,R^2+2032\,l^4\,r^4\,R^2-1616\,l^2\,r^6\,R^2+976\,r^8\,R^2-2304\,l^4\,r^3\,R^3-3072\,l^2\,r^5\,R^3+3328\,r^7\,R^3+4096\,r^6\,R^4\right)\Big/\left(4\left(l^4+2\,l^2\,r^2+r^4-20\,l^2\,r\,R+12\,r^3\,R+32\,r^2\,R^2\right)^2\right)\}$$

$$\{X10,\ \text{SPIEKER CENTER},\ X88,\ \text{ISOGONAL CONJUGATE OF } X(44),$$
$$\frac{l^6-l^4\,r^2-9\,l^2\,r^4+9\,r^6-34\,l^4\,r\,R+36\,l^2\,r^3\,R-90\,r^5\,R+369\,l^2\,r^2\,R^2-99\,r^4\,R^2-1296\,r^3\,R^3}{4\left(l^2+3\,r^2-15\,r\,R\right)^2}\}$$

$$\{X10,\ \text{SPIEKER CENTER},\ X89,\ \text{ISOGONAL CONJUGATE OF } X(45),$$
$$\frac{4\,l^6+44\,l^4\,r^2-180\,l^2\,r^4+36\,r^6-28\,l^4\,r\,R-36\,r^5\,R-495\,l^2\,r^2\,R^2-315\,r^4\,R^2-1296\,r^3\,R^3}{4\left(2\,l^2-6\,r^2+3\,r\,R\right)^2}\}$$

$$\{X10,\ \text{SPIEKER CENTER},\ X90,\ X(3)\text{-CROSS CONJUGATE OF } X(1),$$
$$\frac{-3\,l^2\,r^4+r^6+8\,l^2\,r^3\,R-2\,l^2\,r^2\,R^2-18\,r^4\,R^2-24\,r^3\,R^3+l^2\,R^4+13\,r^2\,R^4-16\,r\,R^5}{4\left(r^2+2\,r\,R-R^2\right)^2}\}$$

$$\{X10,\ \text{SPIEKER CENTER},\ X91,\ \text{ISOGONAL CONJUGATE OF } X(47),$$
$$\left((r+R)^2\left(l^6-l^4\,r^2-5\,l^2\,r^4-3\,r^6-24\,l^4\,r\,R+64\,l^2\,r^3\,R-40\,r^5\,R-4\,l^4\,R^2+136\,l^2\,r^2\,R^2-180\,r^4\,R^2+80\,l^2\,r\,R^3-336\,r^3\,R^3+4\,l^2\,R^4-236\,r^2\,R^4-64\,r\,R^5\right)\right)\Big/\left(4\left(l^2\,r+r^3-l^2\,R+3\,r^2\,R+2\,r\,R^2+2\,R^3\right)^2\right)\}$$

$$\{X10,\ \text{SPIEKER CENTER},\ X92,\ \text{CEVAPOINT OF INCENTER AND CLAWSON POINT},$$
$$\frac{1}{4\left(l^2+r^2-4\,R^2\right)^2}\left(l^6-l^4\,r^2-5\,l^2\,r^4-3\,r^6-32\,l^4\,r\,R+48\,l^2\,r^3\,R-48\,r^5\,R-8\,l^4\,R^2+208\,l^2\,r^2\,R^2-232\,r^4\,R^2+192\,l^2\,r\,R^3-512\,r^3\,R^3+16\,l^2\,R^4-560\,r^2\,R^4-256\,r\,R^5\right)\}$$

$$\{X10,\ \text{SPIEKER CENTER},\ X93,\ \text{ISOGONAL CONJUGATE OF } X(49),$$
$$\left(l^{10}+l^8\,r^2-6\,l^6\,r^4-14\,l^4\,r^6-11\,l^2\,r^8-3\,r^{10}-16\,l^8\,r\,R+16\,l^6\,r^3\,R+16\,l^4\,r^5\,R-80\,l^2\,r^7\,R-64\,r^9\,R-4\,l^8\,R^2-72\,l^6\,r^2\,R^2+320\,l^4\,r^4\,R^2-184\,l^2\,r^6\,R^2-572\,r^8\,R^2+24\,l^6\,r\,R^3+696\,l^4\,r^3\,R^3-88\,l^2\,r^5\,R^3-2808\,r^7\,R^3-10\,l^6\,R^4+898\,l^4\,r^2\,R^4+34\,l^2\,r^4\,R^4-8298\,r^6\,R^4+216\,l^4\,r\,R^5-576\,l^2\,r^3\,R^5-15\,128\,r^5\,R^5+44\,l^4\,R^6-1152\,l^2\,r^2\,R^6-16\,620\,r^4\,R^6-296\,l^2\,r\,R^7-10\,104\,r^3\,R^7-11\,l^2\,R^8-2759\,r^2\,R^8-216\,r\,R^9+16\,R^{10}\right)\Big/\left(4\left(l^4+2\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-8\,l^2\,R^2+24\,r^2\,R^2+32\,r\,R^3+13\,R^4\right)^2\right)\}$$

$$\{X10,\ \text{SPIEKER CENTER},\ X94,\ \text{ISOGONAL CONJUGATE OF } X(50),$$
$$\left(\left(l^2+r^2+4\,r\,R+3\,R^2\right)^2\left(l^6-l^4\,r^2-5\,l^2\,r^4-3\,r^6-24\,l^4\,r\,R+64\,l^2\,r^3\,R-40\,r^5\,R-6\,l^4\,R^2+132\,l^2\,r^2\,R^2-182\,r^4\,R^2+120\,l^2\,r\,R^3-376\,r^3\,R^3+9\,l^2\,R^4-339\,r^2\,R^4-144\,r\,R^5\right)\right)\Big/\left(4\left(l^4+2\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-12\,l^2\,R^2+28\,r^2\,R^2+48\,r\,R^3+27\,R^4\right)^2\right)\}$$

$$\{X10,\ \text{SPIEKER CENTER},\ X95,\ \text{CEVAPOINT OF CENTROID AND CIRCUMCENTER},$$
$$\left(l^{10}+l^8\,r^2-262\,l^6\,r^4+754\,l^4\,r^6-11\,l^2\,r^8-3\,r^{10}-16\,l^8\,r\,R+80\,l^6\,r^3\,R+912\,l^4\,r^5\,R-272\,l^2\,r^7\,R-64\,r^9\,R-8\,l^8\,R^2-80\,l^6\,r^2\,R^2+1856\,l^4\,r^4\,R^2-1712\,l^2\,r^6\,R^2-568\,r^8\,R^2+96\,l^6\,r\,R^3+416\,l^4\,r^3\,R^3-3936\,l^2\,r^5\,R^3-2720\,r^7\,R^3+16\,l^6\,R^4+816\,l^4\,r^2\,R^4-3472\,l^2\,r^4\,R^4-7600\,r^6\,R^4-128\,l^4\,r\,R^5-1792\,l^2\,r^3\,R^5-12\,416\,r^5\,R^5-1792\,l^2\,r^2\,R^6-11\,008\,r^4\,R^6-4096\,r^3\,R^7\right)\Big/\left(4\left(l^4+18\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-4\,l^2\,R^2+20\,r^2\,R^2+16\,r\,R^3\right)^2\right)\}$$

$$\{X10,\ \text{SPIEKER CENTER},\ X96,\ \text{ISOGONAL CONJUGATE OF } X(52),$$
$$-\left(\left(\left(l^2-3\,r^2-4\,r\,R-2\,R^2\right)^2\left(3\,l^6-43\,l^4\,r^2+17\,l^2\,r^4-r^6-32\,l^4\,r\,R+144\,l^2\,r^3\,R-16\,r^5\,R-36\,l^4\,R^2+376\,l^2\,r^2\,R^2-100\,r^4\,R^2+304\,l^2\,r\,R^3-304\,r^3\,R^3+76\,l^2\,R^4-452\,r^2\,R^4-288\,r\,R^5-64\,R^6\right)\right)\Big/\left(4\left(l^4-14\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R+16\,r^2\,R^2-4\,R^4\right)^2\right)\right)\}$$

$$\{X10,\ \text{SPIEKER CENTER},\ X97,\ \text{ISOGONAL CONJUGATE OF } X(53),$$
$$\left(l^{10}+5 l^8 r^2-86 l^6 r^4+138 l^4 r^6-27 l^2 r^8+r^{10}-24 l^8 r R-24 l^6 r^3 R+488 l^4 r^5 R-264 l^2 r^7 R+16 r^9 R-10 l^8 R^2+88 l^6 r^2 R^2+636 l^4 r^4 R^2-1016 l^2 r^6 R^2+110 r^8 R^2+208 l^6 r R^3-8 l^4 r^3 R^3-1904 l^2 r^5 R^3+424 r^7 R^3+33 l^6 R^4-605 l^4 r^2 R^4-1641 l^2 r^4 R^4+997 r^6 R^4-600 l^4 r R^5-128 l^2 r^3 R^5+1432 r^5 R^5-40 l^4 R^6+944 l^2 r^2 R^6+1112 r^4 R^6+672 l^2 r R^7+160 r^3 R^7+16 l^2 R^8-432 r^2 R^8-256 r R^9\right)\Big/\left(4\left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-7 l^2 R^2+23 r^2 R^2+28 r R^3+12 R^4\right)^2\right)\}$$

$$\left\{X10,\ \text{SPIEKER CENTER},\ X98,\ \text{TarryPoint},\ -\frac{\left(l^2-3 r^2-4 r R\right)^2\left(3 l^2-r^2-8 r R-16 R^2\right)}{4\left(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)}\right\}$$

$$\left\{X10,\ \text{SPIEKER CENTER},\ X99,\ \text{STEINER POINT},\ \frac{l^6+15 l^4 r^2-53 l^2 r^4-3 r^6-8 l^4 r R-48 l^2 r^3 R-40 r^5 R-112 l^2 r^2 R^2-176 r^4 R^2-256 r^3 R^3}{4\left(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)}\right\}$$

$$\left\{X10,\ \text{SPIEKER CENTER},\ X100,\ \text{ANTICOMPLEMENT OF FEUERBACH POINT},\ \frac{-2 l^2 r+6 r^3-l^2 R+19 r^2 R+16 r R^2}{4(2 r-R)}\right\}$$

$$\left\{X11,\ \text{FEUERBACH POINT},\ X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ \frac{4 r^2 R^2}{(2 r+R)^2}\right\}$$

$$\left\{X11,\ \text{FEUERBACH POINT},\ X13,\ \text{FERMAT POINT},\ -\frac{r^2\left(\sqrt{3}\, l+r+4 R\right)\left(-2 l^2+2\sqrt{3}\, l r-\sqrt{3}\, l R+3 r R+12 R^2\right)}{3(2 r-R)\left(l^2+2\sqrt{3}\, l r-r^2-4 r R\right)}\right\}$$

$$\left\{X11,\ \text{FEUERBACH POINT},\ X14,\ \text{2nd ISOGONIC CENTER},\ -\frac{r^2\left(-\sqrt{3}\, l+r+4 R\right)\left(-2 l^2-2\sqrt{3}\, l r+\sqrt{3}\, l R+3 r R+12 R^2\right)}{3(2 r-R)\left(l^2-2\sqrt{3}\, l r-r^2-4 r R\right)}\right\}$$

$$\left\{X11,\ \text{FEUERBACH POINT},\ X15,\ \text{1st ISODYNAMIC POINT},\ \frac{r^2\left(\sqrt{3}\, l+r+4 R\right)\left(2 l^2-2\sqrt{3}\, l r-3\sqrt{3}\, l R+r R+4 R^2\right)}{(2 r-R)\left(-l^2-2\sqrt{3}\, l r+r^2+4 r R\right)}\right\}$$

$$\left\{X11,\ \text{FEUERBACH POINT},\ X16,\ \text{2nd ISODYNAMIC POINT},\ \frac{r^2\left(-\sqrt{3}\, l+r+4 R\right)\left(2 l^2+2\sqrt{3}\, l r+3\sqrt{3}\, l R+r R+4 R^2\right)}{(2 r-R)\left(-l^2+2\sqrt{3}\, l r+r^2+4 r R\right)}\right\}$$

$$\{X11,\ \text{FEUERBACH POINT},\ X17,\ \text{1st NAPOLEON POINT},$$
$$\left(3 r^2\left(-2\sqrt{3}\, l^5+8 l^4 r+12\sqrt{3}\, l^3 r^2-8 l^2 r^3-2\sqrt{3}\, l r^4-5 l^4 R+44\sqrt{3}\, l^3 r R-10 l^2 r^2 R-28\sqrt{3}\, l r^3 R+3 r^4 R+8\sqrt{3}\, l^3 R^2+12 l^2 r R^2-128\sqrt{3}\, l r^2 R^2+36 r^3 R^2-16 l^2 R^3-192\sqrt{3}\, l r R^3+144 r^2 R^3+192 r R^4\right)\right)\Big/\left((2 r-R)\left(3 l^2+10\sqrt{3}\, l r-3 r^2-12 r R\right)^2\right)\}$$

$$\{X11,\ \text{FEUERBACH POINT},\ X18,\ \text{2nd NAPOLEON POINT},$$
$$\left(3 r^2\left(2\sqrt{3}\, l^5+8 l^4 r-12\sqrt{3}\, l^3 r^2-8 l^2 r^3+2\sqrt{3}\, l r^4-5 l^4 R-44\sqrt{3}\, l^3 r R-10 l^2 r^2 R+28\sqrt{3}\, l r^3 R+3 r^4 R-8\sqrt{3}\, l^3 R^2+12 l^2 r R^2+128\sqrt{3}\, l r^2 R^2+36 r^3 R^2-16 l^2 R^3+192\sqrt{3}\, l r R^3+144 r^2 R^3+192 r R^4\right)\right)\Big/\left((2 r-R)\left(3 l^2-10\sqrt{3}\, l r-3 r^2-12 r R\right)^2\right)\}$$

$$\{X11,\ \text{FEUERBACH POINT},\ X19,\ \text{CLAWSON POINT},\ \left(-2 l^6 r+4 l^4 r^3-2 l^2 r^5+13 l^4 r^2 R-14 l^2 r^4 R+r^6 R+28 l^4 r R^2-60 l^2 r^3 R^2+16 r^5 R^2+4 l^4 R^3-156 l^2 r^2 R^3+100 r^4 R^3-160 l^2 r R^4+304 r^3 R^4-16 l^2 R^5+448 r^2 R^5+256 r R^6\right)\Big/\left((2 r-R)\left(-l^2+r^2+6 r R+8 R^2\right)^2\right)\}$$

$$\left\{X11,\ \text{FEUERBACH POINT},\ X20,\ \text{DE LONGCHAMPS POINT},\ \frac{-9 l^2 r+9 r^3+3 l^2 R+36 r^2 R+32 r R^2-16 R^3}{2 r-R}\right\}$$

$$\left\{X11,\ \text{FEUERBACH POINT},\ X21,\ \text{SCHIFFLER POINT},\ \frac{-4 l^2 r^3+4 r^5-4 l^2 r^2 R+24 r^4 R-3 l^2 r R^2+51 r^3 R^2-l^2 R^3+44 r^2 R^3+16 r R^4}{(2 r-R)(2 r+3 R)^2}\right\}$$

$$\{X11,\ \text{FEUERBACH POINT},\ X22,\ \text{ExeterPoint},\ \left(-l^6 r+3 l^4 r^3-3 l^2 r^5+r^7+13 l^4 r^2 R-26 l^2 r^4 R+13 r^6 R+8 l^4 r R^2-72 l^2 r^3 R^2+64 r^5 R^2-68 l^2 r^2 R^3+148 r^4 R^3-17 l^2 r R^4+161 r^3 R^4-l^2 R^5+72 r^2 R^5+16 r R^6\right)\Big/\left((2 r-R)\left(-l^2+r^2+4 r R+3 R^2\right)^2\right)\}$$

$$\left\{X11,\ \text{FEUERBACH POINT},\ X23,\ \text{FarOutPoint},\ \frac{2 l^4 r-4 l^2 r^3+2 r^5-18 l^2 r^2 R+18 r^4 R-9 l^2 r R^2+49 r^3 R^2-l^2 R^3+40 r^2 R^3+16 r R^4}{(2 r-R)\left(-2 l^2+2 r^2+8 r R+9 R^2\right)}\right\}$$

$$\{X11,\ \text{FEUERBACH POINT},\ X24,\ \text{PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE},\ \left(-l^6 r+3 l^4 r^3-3 l^2 r^5+r^7+13 l^4 r^2 R-26 l^2 r^4 R+13 r^6 R+12 l^4 r R^2-80 l^2 r^3 R^2+68 r^5 R^2-104 l^2 r^2 R^3+184 r^4 R^3-49 l^2 r R^4+273 r^3 R^4+l^2 R^5+210 r^2 R^5+64 r R^6-4 R^7\right)\Big/\left((2 r-R)\left(-l^2+r^2+4 r R+5 R^2\right)^2\right)\}$$

$$\{X11,\ \text{FEUERBACH POINT},\ X25,\ \text{HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES},\ \left(-l^6 r+3 l^4 r^3-3 l^2 r^5+r^7+13 l^4 r^2 R-26 l^2 r^4 R+13 r^6 R+10 l^4 r R^2-76 l^2 r^3 R^2+66 r^5 R^2+l^4 R^3-90 l^2 r^2 R^3+169 r^4 R^3-44 l^2 r R^4+236 r^3 R^4-4 l^2 R^5+176 r^2 R^5+64 r R^6\right)\Big/\left((2 r-R)\left(-l^2+r^2+4 r R+6 R^2\right)^2\right)\}$$

$$\{X11,\ \text{FEUERBACH POINT},\ X26,\ \text{CIRCUMCENTER OF THE TANGENTIAL TRIANGLE},\ \left(-l^6 r+3 l^4 r^3-3 l^2 r^5+r^7+13 l^4 r^2 R-26 l^2 r^4 R+13 r^6 R+10 l^4 r R^2-76 l^2 r^3 R^2+66 r^5 R^2-86 l^2 r^2 R^3+166 r^4 R^3-32 l^2 r R^4+216 r^3 R^4+136 r^2 R^5+34 r R^6-R^7\right)\Big/\left((2 r-R)(-l+r+2 R)^2(l+r+2 R)^2\right)\}$$

$$\{X11,\ \text{FEUERBACH POINT},\ X27,\ \text{CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER},\ \left(-9 l^6 r+15 l^4 r^3-7 l^2 r^5+r^7+3 l^6 R+62 l^4 r^2 R-69 l^2 r^4 R+16 r^6 R+64 l^4 r R^2-248 l^2 r^3 R^2+104 r^5 R^2-8 l^4 R^3-392 l^2 r^2 R^3+352 r^4 R^3-240 l^2 r R^4+656 r^3 R^4-16 l^2 R^5+640 r^2 R^5+256 r R^6\right)\Big/\left((2 r-R)\left(-l^2+3 r^2+12 r R+12 R^2\right)^2\right)\}$$

$$\{X11,\ \text{FEUERBACH POINT},\ X28,\ \text{CEVAPOINT OF X(19) AND X(25)},\ \left(-l^6 r+3 l^4 r^3-3 l^2 r^5+r^7+11 l^4 r^2 R-22 l^2 r^4 R+11 r^6 R+11 l^4 r R^2-63 l^2 r^3 R^2+52 r^5 R^2+l^4 R^3-85 l^2 r^2 R^3+135 r^4 R^3-48 l^2 r R^4+204 r^3 R^4-4 l^2 R^5+172 r^2 R^5+64 r R^6\right)\Big/\left((2 r-R)\left(-l^2+r^2+5 r R+6 R^2\right)^2\right)\}$$

$$\{X11,\ \text{FEUERBACH POINT},\ X29,\ \text{CEVAPOINT OF INCENTER AND ORTHOCENTER},\ \left(\left(-l^2+3 r^2+4 r R+4 R^2\right)\left(l^4 r-4 l^2 r^3+3 r^5+l^4 R-19 l^2 r^2 R+24 r^4 R-24 l^2 r R^2+76 r^3 R^2-4 l^2 R^3+112 r^2 R^3+64 r R^4\right)\right)\Big/\left((2 r-R)\left(-3 l^2+r^2+8 r R+12 R^2\right)^2\right)\}$$

$$\{X11,\ \text{FEUERBACH POINT},\ X30,\ \text{EulerInfinityPoint},\ \infty\}$$

$$\left\{X11,\ \text{FEUERBACH POINT},\ X31,\ \text{SecondPowerPoint},\ \frac{r^2\left(6 l^4 r-20 l^2 r^3+6 r^5+l^4 R-54 l^2 r^2 R+57 r^4 R-44 l^2 r R^2+172 r^3 R^2-4 l^2 R^3+176 r^2 R^3+64 r R^4\right)}{(2 r-R)\left(-l^2+3 r^2+6 r R\right)^2}\right\}$$

$$\left\{\text{X11, FEUERBACH POINT, X32, ThirdPowerPoint,}\ \frac{1}{(2r-R)\left(-l^2-2lr+r^2+4rR\right)^2\left(-l^2+2lr+r^2+4rR\right)^2}\right.$$
$$\left.r^2\left(8l^8r-56l^6r^3+56l^4r^5-8l^2r^7+l^8R-108l^6r^2R+358l^4r^4R-108l^2r^6R+r^8R-60l^6rR^2+700l^4r^3R^2-564l^2r^5R^2+20r^7R^2-4l^6R^3+536l^4r^2R^3-1412l^2r^4R^3+160r^6R^3+96l^4rR^4-1632l^2r^3R^4+640r^5R^4-576l^2r^2R^5+1280r^4R^5+1024r^3R^6\right)\right\}$$

$$\left\{\text{X11, FEUERBACH POINT, X33, PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES,}\ \frac{r^2\left(2l^4r-4l^2r^3+2r^5+l^4R-22l^2r^2R+21r^4R-28l^2rR^2+76r^3R^2-4l^2R^3+112r^2R^3+64rR^4\right)}{(2r-R)\left(-l^2+r^2+2rR+4R^2\right)^2}\right\}$$

$$\left\{\text{X11, FEUERBACH POINT, X34, X(4)-BETH CONJUGATE OF X(4),}\ \frac{r^2\left(2l^4r-4l^2r^3+2r^5-3l^4R-6l^2r^2R+9r^4R+4l^2rR^2+12r^3R^2+28l^2R^3-16r^2R^3-64rR^4-64R^5\right)}{(2r-R)\left(-l^2+r^2+6rR+4R^2\right)^2}\right\}$$

$$\left\{\text{X11, FEUERBACH POINT, X35, \{X(1),X(3)\}-HARMONIC CONJUGATE OF X(36),}\ \frac{r^2\left(-4l^2r+4r^3-2l^2R+26r^2R+42rR^2-R^3\right)}{(2r-R)(2r+R)^2}\right\}$$

$$\left\{\text{X11, FEUERBACH POINT, X36, INVERSE-IN-CIRCUMCIRCLE OF INCENTER,}\ \frac{r^2\left(-2l^2+2r^2+8rR+9R^2\right)}{(2r-R)^2}\right\}$$

$$\left\{\text{X11, FEUERBACH POINT, X37, CrosspointOfIncenterAndCentroid,}\ \frac{r^2R\left(-3l^4+14l^2r^2+r^4+28l^2rR+12r^3R-4l^2R^2+48r^2R^2+64rR^3\right)}{(2r-R)\left(l^2+r^2+4rR\right)^2}\right\}$$

$$\left\{\text{X11, FEUERBACH POINT, X38, CROSSPOINT OF X(1) AND X(75),}\ -\frac{r^2\left(2l^4r+4l^2r^3+2r^5+3l^4R-34l^2r^2R+27r^4R-52l^2rR^2+116r^3R^2+4l^2R^3+144r^2R^3-64rR^4\right)}{(2r-R)\left(l^2+r^2-2rR\right)^2}\right\}$$

$$\left\{\text{X11, FEUERBACH POINT, X39, BrocardMidpoint,}\ \left(r^2R\left(l^8+4l^6r^2+6l^4r^4+4l^2r^6+r^8-28l^6rR+92l^4r^3R+12l^2r^5R+20r^7R-4l^6R^2+152l^4r^2R^2-132l^2r^4R^2+160r^6R^2+96l^4rR^3-608l^2r^3R^3+640r^5R^3-576l^2r^2R^4+1280r^4R^4+1024r^3R^5\right)\right)\Big/\left((2r-R)\left(l^4+2l^2r^2+r^4-8l^2rR+8r^3R+16r^2R^2\right)^2\right)\right\}$$

$$\left\{\text{X11, FEUERBACH POINT, X40, BEVAN POINT,}\ \frac{-2l^2r+3r^2R+20rR^2-4R^3}{2r-R}\right\}$$

$$\left\{\text{X11, FEUERBACH POINT, X41, X(6)-CEVA CONJUGATE OF X(31),}\ \left(r^2\left(-6l^6r+20l^4r^3-6l^2r^5-4l^6R+97l^4r^2R-74l^2r^4R+r^6R+112l^4rR^2-340l^2r^3R^2+20r^5R^2+32l^4R^3-708l^2r^2R^3+160r^4R^3-608l^2rR^4+640r^3R^4-64l^2R^5+1280r^2R^5+1024rR^6\right)\right)\Big/\left((2r-R)\left(-3l^2r+r^3-2l^2R+8r^2R+16rR^2\right)^2\right)\right\}$$

$$\left\{\text{X11, FEUERBACH POINT, X42, CROSSPOINT OF INCENTER AND SYMMEDIAN POINT,}\ \frac{r^2\left(2l^4r+4l^2r^3+2r^5+l^4R+10l^2r^2R+9r^4R-28l^2rR^2-20r^3R^2-4l^2R^3-80r^2R^3+64rR^4\right)}{(2r-R)\left(l^2+r^2-2rR\right)^2}\right\}$$

$$\left\{\text{X11, FEUERBACH POINT, X43, X(6)-CEVA CONJUGATE OF X(1),}\ \frac{r^2\left(2l^4r+4l^2r^3+2r^5+3l^4R+6l^2r^2R+3r^4R-56l^2rR^2-56r^3R^2-16l^2R^3-80r^2R^3+256rR^4\right)}{(2r-R)\left(l^2+r^2-8rR\right)^2}\right\}$$

$$\left\{\text{X11, FEUERBACH POINT, X44, X(6)-LINE CONJUGATE OF X(1)},\ \frac{r^2\left(8 l^4 r-24 l^2 r^3+5 l^4 R-66 l^2 r^2 R+9 r^4 R-132 l^2 r R^2+108 r^3 R^2-36 l^2 R^3+432 r^2 R^3+576 r R^4\right)}{(2 r-R)\left(-l^2+3 r^2+12 r R\right)^2}\right\}$$

$$\left\{\text{X11, FEUERBACH POINT, X45, X(9)-BETH CONJUGATE OF X(1)},\ \frac{r^2\left(-4 l^4 r-12 l^2 r^3-7 l^4 R+30 l^2 r^2 R+9 r^4 R+60 l^2 r R^2+108 r^3 R^2-36 l^2 R^3+432 r^2 R^3+576 r R^4\right)}{(2 r-R)\left(l^2+3 r^2+12 r R\right)^2}\right\}$$

$$\left\{\text{X11, FEUERBACH POINT, X46, X(4)-CEVA CONJUGATE OF X(1)},\ \frac{r^2\left(-2 l^2 r+2 l^2 R+r^2 R+4 r R^2-9 R^3\right)}{(r-R)^2(2 r-R)}\right\}$$

$$\left\{\text{X11, FEUERBACH POINT, X47, X(110)-BETH CONJUGATE OF X(34)},\ \left(r^2\left(6 l^4 r-20 l^2 r^3+6 r^5+l^4 R-54 l^2 r^2 R+57 r^4 R-60 l^2 r R^2+188 r^3 R^2-4 l^2 R^3+256 r^2 R^3+136 r R^4-4 R^5\right)\right)\Big/\left((2 r-R)\left(-l^2+3 r^2+6 r R+2 R^2\right)^2\right)\right\}$$

$$\left\{\text{X11, FEUERBACH POINT, X48, CROSSPOINT OF X(1) AND X(63)},\ \left(-6 l^6 r+20 l^4 r^3-6 l^2 r^5+57 l^4 r^2 R-54 l^2 r^4 R+r^6 R+44 l^4 r R^2-188 l^2 r^3 R^2+16 r^5 R^2+4 l^4 R^3-284 l^2 r^2 R^3+100 r^4 R^3-160 l^2 r R^4+304 r^3 R^4-16 l^2 R^5+448 r^2 R^5+256 r R^6\right)\Big/\left((2 r-R)\left(-3 l^2+r^2+6 r R+8 R^2\right)^2\right)\right\}$$

$$\left\{\text{X11, FEUERBACH POINT, X49, CENTER OF SINE-TRIPLE-ANGLE CIRCLE},\ \left(-2 l^6 r+14 l^4 r^3-14 l^2 r^5+2 r^7+28 l^4 r^2 R-88 l^2 r^4 R+28 r^6 R+19 l^4 r R^2-210 l^2 r^3 R^2+155 r^5 R^2+l^4 R^3-202 l^2 r^2 R^3+429 r^4 R^3-73 l^2 r R^4+613 r^3 R^4-4 l^2 R^5+413 r^2 R^5+102 r R^6-R^7\right)\Big/\left((2 r-R)\left(-2 l^2+2 r^2+8 r R+7 R^2\right)^2\right)\right\}$$

$$\left\{\text{X11, FEUERBACH POINT, X50, X(74)-CEVA CONJUGATE OF X(184)},\ \left(r^2\left(8 l^8 r-56 l^6 r^3+56 l^4 r^5-8 l^2 r^7+l^8 R-108 l^6 r^2 R+358 l^4 r^4 R-108 l^2 r^6 R+r^8 R-96 l^6 r R^2+820 l^4 r^3 R^2-600 l^2 r^5 R^2+20 r^7 R^2-10 l^6 R^3+866 l^4 r^2 R^3-1742 l^2 r^4 R^3+166 r^6 R^3+420 l^4 r R^4-2772 l^2 r^3 R^4+736 r^5 R^4+33 l^4 R^5-2298 l^2 r^2 R^5+1865 r^4 R^5-804 l^2 r R^6+2668 r^3 R^6-36 l^2 R^7+1968 r^2 R^7+576 r R^8\right)\right)\Big/\left((2 r-R)\left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-3 l^2 R^2+19 r^2 R^2+12 r R^3\right)^2\right)\right\}$$

$$\left\{\text{X11, FEUERBACH POINT, X51, CENTROID OF ORTHIC TRIANGLE},\ \frac{4 l^4 r-24 l^2 r^3+4 r^5+l^4 R-14 l^2 r^2 R+33 r^4 R-36 l^2 r R^2+76 r^3 R^2-4 l^2 R^3+48 r^2 R^3+64 r R^4}{36(2 r-R) R^2}\right\}$$

$$\left\{\text{X11, FEUERBACH POINT, X52, ORTHOCENTER OF ORTHIC TRIANGLE},\ \frac{4 l^4 r-24 l^2 r^3+4 r^5-l^4 R-18 l^2 r^2 R+31 r^4 R-12 l^2 r R^2+68 r^3 R^2+4 l^2 R^3+32 r^2 R^3+8 r R^4-4 R^5}{4(2 r-R) R^2}\right\}$$

$$\left\{\text{X11, FEUERBACH POINT, X53, SYMMEDIAN POINT OF ORTHIC TRIANGLE},\ \left(r^2 R\left(l^8-4 l^6 r^2-10 l^4 r^4-4 l^2 r^6+r^8-44 l^6 r R+124 l^4 r^3 R-100 l^2 r^5 R+20 r^7 R-12 l^6 R^2+448 l^4 r^2 R^2-668 l^2 r^4 R^2+168 r^6 R^2+416 l^4 r R^3-1888 l^2 r^3 R^3+768 r^5 R^3+48 l^4 R^4-2432 l^2 r^2 R^4+2064 r^4 R^4-1216 l^2 r R^5+3264 r^3 R^5-64 l^2 R^6+2816 r^2 R^6+1024 r R^7\right)\right)\Big/\left((2 r-R)\left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-4 l^2 R^2+20 r^2 R^2+16 r R^3\right)^2\right)\right\}$$

$$\left\{\text{X11, FEUERBACH POINT, X54, KosnitaPoint},\ \left(-2 l^6 r+14 l^4 r^3-14 l^2 r^5+2 r^7+28 l^4 r^2 R-88 l^2 r^4 R+28 r^6 R+19 l^4 r R^2-210 l^2 r^3 R^2+155 r^5 R^2-192 l^2 r^2 R^3+424 r^4 R^3-61 l^2 r R^4+577 r^3 R^4+l^2 R^5+338 r^2 R^5+64 r R^6-4 R^7\right)\Big/\left((2 r-R)\left(-2 l^2+2 r^2+8 r R+5 R^2\right)^2\right)\right\}$$

$$\left\{\text{X11, FEUERBACH POINT, X55, INSIMILICENTER(CIRCUMCIRCLE, INCIRCLE)},\ \frac{r^2\left(-l^2 r+r^3-l^2 R+8 r^2 R+16 r R^2\right)}{(2 r-R)(r+R)^2}\right\}$$

$$\left\{\text{X11, FEUERBACH POINT, X56, EXSIMILICENTER(CIRCUMCIRCLE, INCIRCLE)}, \frac{r^2\left(-l^2 r+r^3+l^2 R+2 r^2 R-4 R^3\right)}{(r-R)^2(2 r-R)}\right\}$$

$$\left\{\text{X11, FEUERBACH POINT, X57, ISOGONAL CONJUGATE OF X(9)}, -\frac{r^2\left(2 l^2 r-4 l^2 R+r^2 R+8 r R^2+16 R^3\right)}{(r-2 R)^2(2 r-R)}\right\}$$

$$\left\{\text{X11, FEUERBACH POINT, X58, ISOGONAL CONJUGATE OF X(10)}, \frac{r^2\left(-l^2+3 r^2+4 r R+4 R^2\right)\left(-6 l^2 r+2 r^3-l^2 R+11 r^2 R+16 r R^2\right)}{(2 r-R)\left(-l^2+3 r^2+4 r R\right)^2}\right\}$$

$$\left\{\text{X11, FEUERBACH POINT, X59, ISOGONAL CONJUGATE OF X(11)}, \left(r^2\left(-l^6+7 l^4 r^2-7 l^2 r^4+r^6+13 l^4 r R-50 l^2 r^3 R+17 r^5 R+12 l^4 R^2-126 l^2 r^2 R^2+110 r^4 R^2-103 l^2 r R^3+329 r^3 R^3-47 l^2 R^4+428 r^2 R^4+176 r R^5+64 R^6\right)\right)\Big/\left((2 r-R)^2\left(-l^2+r^2+5 r R+4 R^2\right)^2\right)\right\}$$

$$\left\{\text{X11, FEUERBACH POINT, X60, ISOGONAL CONJUGATE OF X(12)}, \left(r^2\left(-2 l^6 r+14 l^4 r^3-14 l^2 r^5+2 r^7-l^6 R+37 l^4 r^2 R-83 l^2 r^4 R+23 r^6 R+31 l^4 r R^2-210 l^2 r^3 R^2+111 r^5 R^2+6 l^4 R^3-252 l^2 r^2 R^3+294 r^4 R^3-123 l^2 r R^4+459 r^3 R^4-9 l^2 R^5+396 r^2 R^5+144 r R^6\right)\right)\Big/\left((2 r-R)\left(-2 l^2 r+2 r^3-l^2 R+7 r^2 R+7 r R^2\right)^2\right)\right\}$$

$$\left\{\text{X11, FEUERBACH POINT, X61, ISOGONAL CONJUGATE OF X(17)}, \left(3 r^2\left(-2\sqrt{3}\, l^5+8 l^4 r+12\sqrt{3}\, l^3 r^2-8 l^2 r^3-2\sqrt{3}\, l r^4+3 l^4 R+20\sqrt{3}\, l^3 r R-34 l^2 r^2 R-20\sqrt{3}\, l r^3 R+3 r^4 R+8\sqrt{3}\, l^3 R^2-84 l^2 r R^2-64\sqrt{3}\, l r^2 R^2+36 r^3 R^2-16 l^2 R^3-64\sqrt{3}\, l r R^3+144 r^2 R^3+192 r R^4\right)\right)\Big/\left((2 r-R)\left(3 l^2+2\sqrt{3}\, l r-3 r^2-12 r R\right)^2\right)\right\}$$

$$\left\{\text{X11, FEUERBACH POINT, X62, ISOGONAL CONJUGATE OF X(18)}, \left(3 r^2\left(2\sqrt{3}\, l^5+8 l^4 r-12\sqrt{3}\, l^3 r^2-8 l^2 r^3+2\sqrt{3}\, l r^4+3 l^4 R-20\sqrt{3}\, l^3 r R-34 l^2 r^2 R+20\sqrt{3}\, l r^3 R+3 r^4 R-8\sqrt{3}\, l^3 R^2-84 l^2 r R^2+64\sqrt{3}\, l r^2 R^2+36 r^3 R^2-16 l^2 R^3+64\sqrt{3}\, l r R^3+144 r^2 R^3+192 r R^4\right)\right)\Big/\left((2 r-R)\left(3 l^2-2\sqrt{3}\, l r-3 r^2-12 r R\right)^2\right)\right\}$$

$$\left\{\text{X11, FEUERBACH POINT, X63, ISOGONAL CONJUGATE OF X(19)}, \frac{-2 l^2 r^3+l^2 r^2 R-l^2 r R^2+r^3 R^2-l^2 R^3+8 r^2 R^3+16 r R^4}{(2 r-R)(r+R)^2}\right\}$$

$$\left\{\text{X11, FEUERBACH POINT, X64, ISOGONAL CONJUGATE OF X(20)}, \left(-2 l^6 r+2 l^4 r^3-2 l^2 r^5+2 r^7+25 l^4 r^2 R-34 l^2 r^4 R+25 r^6 R+52 l^4 r R^2-180 l^2 r^3 R^2+152 r^5 R^2-12 l^4 R^3-396 l^2 r^2 R^3+532 r^4 R^3-256 l^2 r R^4+1072 r^3 R^4+112 l^2 R^5+1088 r^2 R^5+256 r R^6-256 R^7\right)\Big/\left((2 r-R)(-l+r+2 R)^2(l+r+2 R)^2\right)\right\}$$

$$\left\{\text{X11, FEUERBACH POINT, X65, ORTHOCENTER OF THE INTOUCH TRIANGLE}, -\frac{r^2\left(-l^2+3 r^2+4 r R+4 R^2\right)}{(2 r-R) R}\right\}$$

$$\left\{\text{X11, FEUERBACH POINT, X66, ISOGONAL CONJUGATE OF X(22)}, -\frac{1}{(2 r-R)(-l+r+2 R)^2(l+r+2 R)^2\left(-l^2+r^2+4 r R\right)^2}\left(-4 l^8 r^3+12 l^6 r^5-12 l^4 r^7+4 l^2 r^9+5 l^8 r^2 R+32 l^6 r^4 R-78 l^4 r^6 R+40 l^2 r^8 R+r^{10} R-36 l^6 r^3 R^2-100 l^4 r^5 R^2+116 l^2 r^7 R^2+20 r^9 R^2-l^8 R^3-44 l^6 r^2 R^3+190 l^4 r^4 R^3-52 l^2 r^6 R^3+163 r^8 R^3+24 l^6 r R^4+320 l^4 r^3 R^4-776 l^2 r^5 R^4+688 r^7 R^4+4 l^6 R^5-44 l^4 r^2 R^5-1076 l^2 r^4 R^5+1564 r^6 R^5-80 l^4 r R^6-160 l^2 r^3 R^6+1744 r^5 R^6+272 l^2 r^2 R^7+576 r^4 R^7-256 r^3 R^8\right)\right\}$$

$$\{X11,\ \text{FEUERBACH POINT},\ X67,\ \text{ISOGONAL CONJUGATE OF } X(23),$$
$$-\Big(\big(l^8 r + 8 l^6 r^3 - 18 l^4 r^5 + 8 l^2 r^7 + r^9 - l^8 R - 26 l^6 r^2 R - 24 l^4 r^4 R + 34 l^2 r^6 R + 17 r^8 R + 18 l^6 r R^2 + 66 l^4 r^3 R^2 - 6 l^2 r^5 R^2 + 114 r^7 R^2 + 4 l^6 R^3 - 9 l^4 r^2 R^3 - 130 l^2 r^4 R^3 + 375 r^6 R^3 - 72 l^4 r R^4 - 20 l^2 r^3 R^4 + 596 r^5 R^4 + 132 l^2 r^2 R^5 + 336 r^4 R^5 - 64 r^3 R^6\big) \Big/ \big((2 r - R)\ (-l^2 + r^2 + 4 r R)^2\ (-2 l^2 + 2 r^2 + 8 r R + 9 R^2)\big)\Big)\}$$

$$\{X11,\ \text{FEUERBACH POINT},\ X68,\ \text{PRASOLOV POINT},$$
$$-\Big(\big(-4 l^4 r^3 + 4 l^2 r^5 + 5 l^4 r^2 R + 10 l^2 r^4 R + r^6 R - 2 l^4 r R^2 + 10 r^5 R^2 + l^4 R^3 - 26 l^2 r^2 R^3 + 37 r^4 R^3 + 64 r^3 R^4 - 4 l^2 R^5 + 52 r^2 R^5 + 8 r R^6 + 4 R^7\big) \Big/ \big((2 r - R)\ (-l + r + 2 R)^2\ (l + r + 2 R)^2\big)\Big)\}$$

$$\{X11,\ \text{FEUERBACH POINT},\ X69,\ \text{SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},$$
$$-\frac{-l^6 r - 5 l^4 r^3 + 5 l^2 r^5 + r^7 + l^6 R + 18 l^4 r^2 R + l^2 r^4 R + 12 r^6 R - 16 l^4 r R^2 + 32 l^2 r^3 R^2 + 48 r^5 R^2 + 64 r^4 R^3}{(2 r - R)\ (-l^2 + r^2 + 4 r R)^2}\}$$

$$\{X11,\ \text{FEUERBACH POINT},\ X70,\ \text{ISOGONAL CONJUGATE OF } X(26),$$
$$-\Big(\big(-4 l^8 r^3 + 12 l^6 r^5 - 12 l^4 r^7 + 4 l^2 r^9 + 5 l^8 r^2 R + 32 l^6 r^4 R - 78 l^4 r^6 R + 40 l^2 r^8 R + r^{10} R - l^8 r R^2 - 20 l^6 r^3 R^2 - 130 l^4 r^5 R^2 + 132 l^2 r^7 R^2 + 19 r^9 R^2 - 48 l^6 r^2 R^3 + 88 l^4 r^4 R^3 + 64 l^2 r^6 R^3 + 152 r^8 R^3 + 13 l^6 r R^4 + 345 l^4 r^3 R^4 - 573 l^2 r^5 R^4 + 663 r^7 R^4 - l^6 R^5 + 141 l^4 r^2 R^5 - 1315 l^2 r^4 R^5 + 1703 r^6 R^5 - 41 l^4 r R^6 - 1014 l^2 r^3 R^6 + 2587 r^5 R^6 + 6 l^4 R^7 - 188 l^2 r^2 R^7 + 2198 r^4 R^7 + 29 l^2 r R^8 + 903 r^3 R^8 - 9 l^2 R^9 + 126 r^2 R^9 + 4 R^{11}\big) \Big/ \big((2 r - R)\ (l^4 - 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 6 l^2 R^2 + 22 r^2 R^2 + 24 r R^3 + 7 R^4)^2\big)\Big)\}$$

$$\{X11,\ \text{FEUERBACH POINT},\ X71,\ \text{ISOGONAL CONJUGATE OF } X(27),$$
$$\big(-2 l^6 r - 4 l^4 r^3 - 2 l^2 r^5 - 7 l^4 r^2 R - 6 l^2 r^4 R + r^6 R + 12 l^4 r R^2 + 20 l^2 r^3 R^2 + 16 r^5 R^2 - 12 l^4 R^3 + 100 l^2 r^2 R^3 + 100 r^4 R^3 + 96 l^2 r R^4 + 304 r^3 R^4 - 16 l^2 R^5 + 448 r^2 R^5 + 256 r R^6\big) \Big/ \big((2 r - R)\ (l^2 + r^2 + 6 r R + 8 R^2)^2\big)\}$$

$$\{X11,\ \text{FEUERBACH POINT},\ X72,\ \text{ISOGONAL CONJUGATE OF } X(28),$$
$$-\frac{-l^2 r^2 + 3 r^4 + 12 r^3 R + l^2 R^2 + 5 r^2 R^2 - 16 r R^3}{(2 r - R)\ R}\}$$

$$\{X11,\ \text{FEUERBACH POINT},\ X73,\ \text{CROSSPOINT OF INCENTER AND CIRCUMCENTER},$$
$$\frac{r^2\ (2 l^4 r + 4 l^2 r^3 + 2 r^5 - 3 l^4 R + 2 l^2 r^2 R + 5 r^4 R - 12 l^2 r R^2 - 4 r^3 R^2 + 28 l^2 R^3 - 64 R^5)}{(2 r - R)\ (l^2 + r^2 - 2 r R - 4 R^2)^2}\}$$

$$\{X11,\ \text{FEUERBACH POINT},\ X74,\ \text{ISOGONAL CONJUGATE OF EULER INFINITY POINT},$$
$$\frac{3 l^4 r - 2 l^2 r^3 + 3 r^5 - 26 l^2 r^2 R + 26 r^4 R - 45 l^2 r R^2 + 97 r^3 R^2 + 9 l^2 R^3 + 170 r^2 R^3 + 96 r R^4 - 36 R^5}{(2 r - R)\ (-2 l^2 + 2 r^2 + 8 r R + 9 R^2)}\}$$

$$\{X11,\ \text{FEUERBACH POINT},\ X75,\ \text{ISOTOMIC CONJUGATE OF INCENTER},$$
$$-\frac{-l^6 r - l^4 r^3 + l^2 r^5 + r^7 + l^6 R + 22 l^4 r^2 R - 31 l^2 r^4 R + 12 r^6 R - 16 l^4 r R^2 - 32 l^2 r^3 R^2 + 48 r^5 R^2 + 64 r^4 R^3}{(2 r - R)\ (l^2 + r^2 + 4 r R)^2}\}$$

$$\{X11,\ \text{FEUERBACH POINT},\ X76,\ \text{3rd BROCARD POINT},$$
$$-\frac{1}{(2 r - R)\ (l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2)^2}$$
$$\big(-l^{10} r - 3 l^8 r^3 - 2 l^6 r^5 + 2 l^4 r^7 + 3 l^2 r^9 + r^{11} + l^{10} R + 24 l^8 r^2 R + 22 l^6 r^4 R - 4 l^4 r^6 R + 17 l^2 r^8 R + 20 r^{10} R - 24 l^8 r R^2 - 88 l^6 r^3 R^2 - 200 l^4 r^5 R^2 + 24 l^2 r^7 R^2 + 160 r^9 R^2 + 144 l^6 r^2 R^3 - 96 l^4 r^4 R^3 + 144 l^2 r^6 R^3 + 640 r^8 R^3 - 256 l^4 r^3 R^4 + 512 l^2 r^5 R^4 + 1280 r^7 R^4 + 1024 r^6 R^5\big)\}$$

$$\{X11,\ \text{FEUERBACH POINT},\ X77,\ \text{ISOGONAL CONJUGATE OF } X(33),$$
$$-\frac{r^2\ (-2 l^4 r + 4 l^4 R - l^2 r^2 R - 5 l^2 r R^2 + r^3 R^2 - 31 l^2 R^3 + 12 r^2 R^3 + 48 r R^4 + 64 R^5)}{(2 r - R)\ (-l^2 + r R + 4 R^2)^2}\}$$

$$\left\{\text{X11, FEUERBACH POINT, X78, ISOGONAL CONJUGATE OF X(34)},\ \frac{2 r^5 + l^2 r^2 R + 4 r^4 R + l^2 r R^2 - 13 r^3 R^2 - l^2 R^3 - 20 r^2 R^3 + 16 r R^4}{(r - R)^2 (2 r - R)}\right\}$$

$$\left\{\text{X11, FEUERBACH POINT, X79, ISOGONAL CONJUGATE OF X(35)},\ -\frac{r^2 \left(8 l^2 r - 20 l^2 R + 8 r^2 R + 50 r R^2 + 81 R^3\right)}{(2 r - R) (2 r + 3 R)^2}\right\}$$

$$\left\{\text{X11, FEUERBACH POINT, X80, REFLECTION OF INCENTER IN FEUERBACH POINT}, r^2\right\}$$

$$\left\{\text{X11, FEUERBACH POINT, X81, CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},\ \frac{r^2 \left(4 l^4 r - 4 l^2 r^3 - 12 l^2 r^2 R - 21 l^2 r R^2 + r^3 R^2 - l^2 R^3 + 8 r^2 R^3 + 16 r R^4\right)}{(2 r - R) \left(-l^2 + r^2 + r R\right)^2}\right\}$$

$$\left\{\text{X11, FEUERBACH POINT, X82, ISOGONAL CONJUGATE OF X(38)},\ \frac{1}{(2 r - R) \left(l^4 - 4 l^2 r^2 + 3 r^4 - 9 l^2 r R + 19 r^3 R + 28 r^2 R^2\right)^2} r^2 \left(6 l^8 r - 32 l^6 r^3 + 52 l^4 r^5 - 32 l^2 r^7 + 6 r^9 - 106 l^6 r^2 R + 374 l^4 r^4 R - 374 l^2 r^6 R + 106 r^8 R - 27 l^6 r R^2 + 829 l^4 r^3 R^2 - 1637 l^2 r^5 R^2 + 739 r^7 R^2 - l^6 R^3 + 386 l^4 r^2 R^3 - 3065 l^2 r^4 R^3 + 2548 r^6 R^3 + 32 l^4 r R^4 - 2000 l^2 r^3 R^4 + 4432 r^5 R^4 - 320 l^2 r^2 R^5 + 3520 r^4 R^5 + 1024 r^3 R^6\right)\right\}$$

$$\left\{\text{X11, FEUERBACH POINT, X83, CEVAPOINT OF CENTROID AND SYMMEDIAN POINT},\ \frac{1}{(2 r - R) \left(5 l^4 - 6 l^2 r^2 + 5 r^4 - 40 l^2 r R + 40 r^3 R + 80 r^2 R^2\right)^2} \left(-3 l^{10} r + 55 l^8 r^3 - 198 l^6 r^5 + 198 l^4 r^7 - 55 l^2 r^9 + 3 r^{11} - l^{10} R + 88 l^8 r^2 R - 774 l^6 r^4 R + 1588 l^4 r^6 R - 801 l^2 r^8 R + 76 r^{10} R + 40 l^8 r R^2 - 1176 l^6 r^3 R^2 + 4856 l^4 r^5 R^2 - 4648 l^2 r^7 R^2 + 800 r^9 R^2 - 592 l^6 r^2 R^3 + 7136 l^4 r^4 R^3 - 13648 l^2 r^6 R^3 + 4480 r^8 R^3 + 4096 l^4 r^3 R^4 - 20736 l^2 r^5 R^4 + 14080 r^7 R^4 - 13312 l^2 r^4 R^5 + 23552 r^6 R^5 + 16384 r^5 R^6\right)\right\}$$

$$\left\{\text{X11, FEUERBACH POINT, X84, ISOGONAL CONJUGATE OF X(40)},\ -\frac{2 l^2 r^3 - 10 l^2 r^2 R + 3 r^4 R + 12 l^2 r R^2 + 12 r^3 R^2 - 4 l^2 R^3 - 32 r R^4 + 16 R^5}{r^2 (2 r - R)}\right\}$$

$$\left\{\text{X11, FEUERBACH POINT, X85, ISOTOMIC CONJUGATE OF X(9)},\ -\left(\left(-l^6 r - l^4 r^3 + l^2 r^5 + r^7 + l^6 R + 30 l^4 r^2 R - 15 l^2 r^4 R + 20 r^6 R - 8 l^4 r R^2 - 168 l^2 r^3 R^2 + 160 r^5 R^2 - 368 l^2 r^2 R^3 + 640 r^4 R^3 + 1280 r^3 R^4 + 1024 r^2 R^5\right) \Big/ \left((2 r - R) \left(l^2 + r^2 + 8 r R + 16 R^2\right)^2\right)\right)\right\}$$

$$\left\{\text{X11, FEUERBACH POINT, X86, CEVAPOINT OF INCENTER AND CENTROID},\ -\left(\left(3 l^6 r - 25 l^4 r^3 + 5 l^2 r^5 + r^7 + l^6 R - 26 l^4 r^2 R + l^2 r^4 R + 12 r^6 R - 16 l^4 r R^2 + 32 l^2 r^3 R^2 + 48 r^5 R^2 + 64 r^4 R^3\right) \Big/ \left((2 r - R) \left(5 l^2 + r^2 + 4 r R\right)^2\right)\right)\right\}$$

$$\left\{\text{X11, FEUERBACH POINT, X87, X(2)-CROSS CONJUGATE OF X(1)},\ \frac{1}{(2 r - R) \left(l^4 + 2 l^2 r^2 + r^4 - 20 l^2 r R + 12 r^3 R + 32 r^2 R^2\right)^2} r^2 \left(2 l^8 r + 8 l^6 r^3 + 12 l^4 r^5 + 8 l^2 r^7 + 2 r^9 + 3 l^8 R - 68 l^6 r^2 R - 94 l^4 r^4 R + 28 l^2 r^6 R + 51 r^8 R - 96 l^6 r R^2 + 768 l^4 r^3 R^2 - 736 l^2 r^5 R^2 + 448 r^7 R^2 - 16 l^6 R^3 + 1024 l^4 r^2 R^3 - 2256 l^2 r^4 R^3 + 1824 r^6 R^3 + 384 l^4 r R^4 - 4992 l^2 r^3 R^4 + 3840 r^5 R^4 - 2304 l^2 r^2 R^5 + 4864 r^4 R^5 + 4096 r^3 R^6\right)\right\}$$

$$\left\{\text{X11, FEUERBACH POINT, X88, ISOGONAL CONJUGATE OF X(44)},\ -\frac{r^2 \left(2 l^4 + 6 l^2 r^2 - 39 l^2 r R + 9 r^3 R - 9 l^2 R^2 + 72 r^2 R^2 + 144 r R^3\right)}{\left(l^2 + 3 r^2 - 15 r R\right)^2}\right\}$$

$$\left\{\text{X11, FEUERBACH POINT, X89, ISOGONAL CONJUGATE OF X(45)},\ -\frac{r^2\left(-32 l^4 r+96 l^2 r^3-2 l^4 R+48 l^2 r^2 R+18 r^4 R+177 l^2 r R^2+135 r^3 R^2+9 l^2 R^3+216 r^2 R^3-144 r R^4\right)}{(2 r-R)\left(-2 l^2+6 r^2-3 r R\right)^2}\right\}$$

$$\left\{\text{X11, FEUERBACH POINT, X90, X(3)-CROSS CONJUGATE OF X(1)},\ -\frac{r^2\left(2 l^2 r^3-4 l^2 r^2 R+r^4 R+2 l^2 r R^2+6 r^3 R^2+6 r^2 R^3-10 r R^4+R^5\right)}{(2 r-R)\left(r^2+2 r R-R^2\right)^2}\right\}$$

$$\left\{\text{X11, FEUERBACH POINT, X91, ISOGONAL CONJUGATE OF X(47)},\ -\left(\left(r^2\left(-l^6 r-l^4 r^3+l^2 r^5+r^7+23 l^4 r^2 R-26 l^2 r^4 R+15 r^6 R+6 l^4 r R^2-100 l^2 r^3 R^2+86 r^5 R^2+l^4 R^3-130 l^2 r^2 R^3+237 r^4 R^3-20 l^2 r R^4+324 r^3 R^4-4 l^2 R^5+200 r^2 R^5+24 r R^6+4 R^7\right)\right)\Big/\left((2 r-R)\left(l^2 r+r^3-l^2 R+3 r^2 R+2 r R^2+2 R^3\right)^2\right)\right)\right\}$$

$$\left\{\text{X11, FEUERBACH POINT, X92, CEVAPOINT OF INCENTER AND CLAWSON POINT},\ -\frac{1}{(2 r-R)\left(l^2+r^2-4 R^2\right)^2}\left(-l^6 r-l^4 r^3+l^2 r^5+r^7+l^6 R+26 l^4 r^2 R-23 l^2 r^4 R+16 r^6 R-16 l^4 r R^2-112 l^2 r^3 R^2+96 r^5 R^2-8 l^4 R^3-56 l^2 r^2 R^3+256 r^4 R^3+144 l^2 r R^4+240 r^3 R^4+16 l^2 R^5-128 r^2 R^5-256 r R^6\right)\right\}$$

$$\left\{\text{X11, FEUERBACH POINT, X93, ISOGONAL CONJUGATE OF X(49)},\ -\left(\left(-l^{10} r-3 l^8 r^3-2 l^6 r^5+2 l^4 r^7+3 l^2 r^9+r^{11}+l^{10} R+24 l^8 r^2 R+22 l^6 r^4 R-4 l^4 r^6 R+17 l^2 r^8 R+20 r^{10} R-16 l^8 r R^2-56 l^6 r^3 R^2-152 l^4 r^5 R^2+56 l^2 r^7 R^2+168 r^9 R^2-10 l^8 R^3-28 l^6 r^2 R^3-280 l^4 r^4 R^3+252 l^2 r^6 R^3+770 r^8 R^3+192 l^6 r R^4-144 l^4 r^3 R^4+736 l^2 r^5 R^4+2096 r^7 R^4+32 l^6 R^5-438 l^4 r^2 R^5+948 l^2 r^4 R^5+3466 r^6 R^5-584 l^4 r R^6+728 l^2 r^3 R^6+3440 r^5 R^6-34 l^4 R^7+840 l^2 r^2 R^7+1946 r^4 R^7+601 l^2 r R^8+439 r^3 R^8+7 l^2 R^9-242 r^2 R^9-192 r R^{10}+4 R^{11}\right)\Big/\left((2 r-R)\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-8 l^2 R^2+24 r^2 R^2+32 r R^3+13 R^4\right)^2\right)\right)\right\}$$

$$\left\{\text{X11, FEUERBACH POINT, X94, ISOGONAL CONJUGATE OF X(50)},\ -\left(\left(-l^{10} r-3 l^8 r^3-2 l^6 r^5+2 l^4 r^7+3 l^2 r^9+r^{11}+l^{10} R+24 l^8 r^2 R+22 l^6 r^4 R-4 l^4 r^6 R+17 l^2 r^8 R+20 r^{10} R-18 l^8 r R^2-64 l^6 r^3 R^2-164 l^4 r^5 R^2+48 l^2 r^7 R^2+166 r^9 R^2-12 l^8 R^3+12 l^6 r^2 R^3-228 l^4 r^4 R^3+228 l^2 r^6 R^3+736 r^8 R^3+264 l^6 r R^4-304 l^4 r^3 R^4+776 l^2 r^5 R^4+1856 r^7 R^4+54 l^6 R^5-1176 l^4 r^2 R^5+1614 l^2 r^4 R^5+2524 r^6 R^5-1134 l^4 r R^6+3228 l^2 r^3 R^6+1050 r^5 R^6-108 l^4 R^7+4140 l^2 r^2 R^7-2376 r^4 R^7+2025 l^2 r R^8-4977 r^3 R^8+81 l^2 R^9-4104 r^2 R^9-1296 r R^{10}\right)\Big/\left((2 r-R)\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-12 l^2 R^2+28 r^2 R^2+48 r R^3+27 R^4\right)^2\right)\right)\right\}$$

$$\left\{\text{X11, FEUERBACH POINT, X95, CEVAPOINT OF CENTROID AND CIRCUMCENTER},\ -\left(\left(-l^{10} r-3 l^8 r^3+254 l^6 r^5-254 l^4 r^7+3 l^2 r^9+r^{11}+l^{10} R+40 l^8 r^2 R+38 l^6 r^4 R-1300 l^4 r^6 R+l^2 r^8 R+20 r^{10} R-16 l^8 r R^2-376 l^6 r^3 R^2-1432 l^4 r^5 R^2-136 l^2 r^7 R^2+168 r^9 R^2-8 l^8 R^3-88 l^6 r^2 R^3+1128 l^4 r^4 R^3-584 l^2 r^6 R^3+768 r^8 R^3+144 l^6 r R^4+880 l^4 r^3 R^4-784 l^2 r^5 R^4+2064 r^7 R^4+16 l^6 R^5-224 l^4 r^2 R^5+16 l^2 r^4 R^5+3264 r^6 R^5-256 l^4 r R^6+512 l^2 r^3 R^6+2816 r^5 R^6+1024 r^4 R^7\right)\Big/\left((2 r-R)\left(l^4+18 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-4 l^2 R^2+20 r^2 R^2+16 r R^3\right)^2\right)\right)\right\}$$

$$\left\{\text{X11, FEUERBACH POINT, X96, ISOGONAL CONJUGATE OF X(52)},\ \frac{1}{(2 r-R)\left(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2-4 R^4\right)^2}\left(-3 l^{10} r+55 l^8 r^3-198 l^6 r^5+198 l^4 r^7-55 l^2 r^9+3 r^{11}+l^{10} R+50 l^8 r^2 R-786 l^6 r^4 R+1672 l^4 r^6 R-759 l^2 r^8 R+62 r^{10} R+12 l^8 r R^2-808 l^6 r^3 R^2+4912 l^4 r^5 R^2-4216 l^2 r^7 R^2+548 r^9 R^2-12 l^8 R^3-248 l^6 r^2 R^3+5936 l^4 r^4 R^3-11\,880 l^2 r^6 R^3+2684 r^8 R^3+64 l^6 r R^4+2736 l^4 r^3 R^4-17\,376 l^2 r^5 R^4+7856 r^7 R^4+56 l^6 R^5-16 l^4 r^2 R^5-11\,720 l^2 r^4 R^5+13\,696 r^6 R^5-432 l^4 r R^6-2048 l^2 r^3 R^6+13\,040 r^5 R^6-128 l^4 R^7+1440 l^2 r^2 R^7+4832 r^4 R^7+816 l^2 r R^8-1264 r^3 R^8+144 l^2 R^9-1632 r^2 R^9-512 r R^{10}-64 R^{11}\right)\right\}$$

$$\{X11,\ \text{FEUERBACH POINT},\ X97,\ \text{ISOGONAL CONJUGATE OF } X(53),$$
$$\left(8 l^8 r^3 - 56 l^6 r^5 + 56 l^4 r^7 - 8 l^2 r^9 + l^8 r^2 R - 108 l^6 r^4 R + 358 l^4 r^6 R - 108 l^2 r^8 R + r^{10} R + l^8 r R^2 - 124 l^6 r^3 R^2 + 890 l^4 r^5 R^2 - 628 l^2 r^7 R^2 + 21 r^9 R^2 - 40 l^6 r^2 R^3 + 1164 l^4 r^4 R^3 - 2032 l^2 r^6 R^3 + 188 r^8 R^3 - 13 l^6 r R^4 + 931 l^4 r^3 R^4 - 3967 l^2 r^5 R^4 + 937 r^7 R^4 - l^6 R^5 + 338 l^4 r^2 R^5 - 4721 l^2 r^4 R^5 + 2848 r^6 R^5 + 80 l^4 r R^6 - 3272 l^2 r^3 R^6 + 5432 r^5 R^6 + 8 l^4 R^7 - 1208 l^2 r^2 R^7 + 6432 r^4 R^7 - 240 l^2 r R^8 + 4496 r^3 R^8 - 16 l^2 R^9 + 1664 r^2 R^9 + 256 r R^{10}\right) \Big/ \left((2 r - R)\left(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 7 l^2 R^2 + 23 r^2 R^2 + 28 r R^3 + 12 R^4\right)^2\right)\}$$

$$\{X11,\ \text{FEUERBACH POINT},\ X98,\ \text{TarryPoint},$$
$$\left(-3 l^6 r + 13 l^4 r^3 - 13 l^2 r^5 + 3 r^7 + l^6 R + 40 l^4 r^2 R - 99 l^2 r^4 R + 38 r^6 R - 208 l^2 r^3 R^2 + 176 r^5 R^2 - 4 l^4 R^3 - 72 l^2 r^2 R^3 + 348 r^4 R^3 + 32 l^2 r R^4 + 224 r^3 R^4 - 64 r^2 R^5\right) \Big/ \left((2 r - R)\left(l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\right)\right)\}$$

$$\{X11,\ \text{FEUERBACH POINT},\ X99,\ \text{STEINER POINT},$$
$$-\left(\left(-l^6 r - 17 l^4 r^3 + 17 l^2 r^5 + r^7 + l^6 R + 14 l^4 r^2 R + 73 l^2 r^4 R + 12 r^6 R - 16 l^4 r R^2 + 128 l^2 r^3 R^2 + 48 r^5 R^2 + 64 r^4 R^3\right) \Big/ \left((2 r - R)\left(l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\right)\right)\right)\}$$

$$\left\{X11,\ \text{FEUERBACH POINT},\ X100,\ \text{ANTICOMPLEMENT OF FEUERBACH POINT},\ \frac{-l^2 r + r^3 - l^2 R + 8 r^2 R + 16 r R^2}{2 r - R}\right\}$$

$$\{X12,\ \{X(1), X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X13,\ \text{FERMAT POINT},$$
$$\left(r^2\left(4\sqrt{3}\, l^3 r - 8 l^2 r^2 - 4\sqrt{3}\, l r^3 + 2\sqrt{3}\, l^3 R - 26 l^2 r R - 14\sqrt{3}\, l r^2 R + 6 r^3 R + l^2 R^2 - 14\sqrt{3}\, l r R^2 + 39 r^2 R^2 - 16\sqrt{3}\, l R^3 + 72 r R^3 + 48 R^4\right)\right) \Big/ \left(3 (2 r + R)^2\left(l^2 + 2\sqrt{3}\, l r - r^2 - 4 r R\right)\right)\}$$

$$\{X12,\ \{X(1), X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X14,\ \text{2nd ISOGONIC CENTER},$$
$$\left(r^2\left(-4\sqrt{3}\, l^3 r - 8 l^2 r^2 + 4\sqrt{3}\, l r^3 - 2\sqrt{3}\, l^3 R - 26 l^2 r R + 14\sqrt{3}\, l r^2 R + 6 r^3 R + l^2 R^2 + 14\sqrt{3}\, l r R^2 + 39 r^2 R^2 + 16\sqrt{3}\, l R^3 + 72 r R^3 + 48 R^4\right)\right) \Big/ \left(3 (2 r + R)^2\left(l^2 - 2\sqrt{3}\, l r - r^2 - 4 r R\right)\right)\}$$

$$\{X12,\ \{X(1), X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X15,\ \text{1st ISODYNAMIC POINT},$$
$$-\left(\left(r^2\left(-4\sqrt{3}\, l^3 r + 8 l^2 r^2 + 4\sqrt{3}\, l r^3 - 2\sqrt{3}\, l^3 R + 2 l^2 r R + 14\sqrt{3}\, l r^2 R + 2 r^3 R + 3 l^2 R^2 + 14\sqrt{3}\, l r R^2 + 13 r^2 R^2 + 24 r R^3 + 16 R^4\right)\right) \Big/ \left((2 r + R)^2\left(-l^2 - 2\sqrt{3}\, l r + r^2 + 4 r R\right)\right)\right)\}$$

$$\{X12,\ \{X(1), X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X16,\ \text{2nd ISODYNAMIC POINT},$$
$$-\left(\left(r^2\left(4\sqrt{3}\, l^3 r + 8 l^2 r^2 - 4\sqrt{3}\, l r^3 + 2\sqrt{3}\, l^3 R + 2 l^2 r R - 14\sqrt{3}\, l r^2 R + 2 r^3 R + 3 l^2 R^2 - 14\sqrt{3}\, l r R^2 + 13 r^2 R^2 + 24 r R^3 + 16 R^4\right)\right) \Big/ \left((2 r + R)^2\left(-l^2 + 2\sqrt{3}\, l r + r^2 + 4 r R\right)\right)\right)\}$$

$$\{X12,\ \{X(1), X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X17,\ \text{1st NAPOLEON POINT},$$
$$-\left(\left(3 r^2\left(-\sqrt{3}\, l + r + 4 R\right)\left(-4 l^4 r + 4\sqrt{3}\, l^3 r^2 + 28 l^2 r^3 + 4\sqrt{3}\, l r^4 - 2 l^4 R + 4 l^2 r^2 R + 6 r^4 R + 3\sqrt{3}\, l^3 R^2 + 39 l^2 r R^2 - 21\sqrt{3}\, l r^2 R^2 + 39 r^3 R^2 - 4 l^2 R^3 - 44\sqrt{3}\, l r R^3 + 72 r^2 R^3 + 48 r R^4\right)\right) \Big/ \left((2 r + R)^2\left(3 l^2 + 10\sqrt{3}\, l r - 3 r^2 - 12 r R\right)^2\right)\right)\}$$

$$\{X12,\ \{X(1), X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X18,\ \text{2nd NAPOLEON POINT},$$
$$-\left(\left(3 r^2\left(\sqrt{3}\, l + r + 4 R\right)\left(-4 l^4 r - 4\sqrt{3}\, l^3 r^2 + 28 l^2 r^3 - 4\sqrt{3}\, l r^4 - 2 l^4 R + 4 l^2 r^2 R + 6 r^4 R - 3\sqrt{3}\, l^3 R^2 + 39 l^2 r R^2 + 21\sqrt{3}\, l r^2 R^2 + 39 r^3 R^2 - 4 l^2 R^3 + 44\sqrt{3}\, l r R^3 + 72 r^2 R^3 + 48 r R^4\right)\right) \Big/ \left((2 r + R)^2\left(3 l^2 - 10\sqrt{3}\, l r - 3 r^2 - 12 r R\right)^2\right)\right)\}$$

$$\{X12,\ \{X(1), X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X19,\ \text{CLAWSON POINT},$$
$$-\left(\left(4 l^6 r^2 - 8 l^4 r^4 + 4 l^2 r^6 + 2 l^6 r R - 26 l^4 r^3 R + 22 l^2 r^5 R + 2 r^7 R - 23 l^4 r^2 R^2 + 26 l^2 r^4 R^2 + 29 r^6 R^2 + 4 l^4 r R^3 - 68 l^2 r^3 R^3 + 168 r^5 R^3 + 4 l^4 R^4 - 188 l^2 r^2 R^4 + 500 r^4 R^4 - 128 l^2 r R^5 + 816 r^3 R^5 - 16 l^2 R^6 + 704 r^2 R^6 + 256 r R^7\right) \Big/ \left((2 r + R)^2\left(-l^2 + r^2 + 6 r R + 8 R^2\right)^2\right)\right)\}$$

$$\left\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X20,\ \text{DE LONGCHAMPS POINT},\ \frac{-18\,l^2 r^2+18\,r^4-15\,l^2 r R+81\,r^3 R-3\,l^2 R^2+136\,r^2 R^2+80\,r R^3+16\,R^4}{(2\,r+R)^2}\right\}$$

$$\left\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X21,\ \text{SCHIFFLER POINT},\ \frac{(2\,r-R)\left(-4\,l^2 r^3+4\,r^5-8\,l^2 r^2 R+20\,r^4 R-5\,l^2 r R^2+41\,r^3 R^2-l^2 R^3+40\,r^2 R^3+16\,r R^4\right)}{(2\,r+R)^2\,(2\,r+3\,R)^2}\right\}$$

$$\left\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X22,\ \text{ExeterPoint},\ \left(-2\,l^6 r^2+6\,l^4 r^4-6\,l^2 r^6+2\,r^8-l^6 r R+25\,l^4 r^3 R-47\,l^2 r^5 R+23\,r^7 R+23\,l^4 r^2 R^2-126\,l^2 r^4 R^2+103\,r^6 R^2+4\,l^4 r R^3-136\,l^2 r^3 R^3+228\,r^5 R^3-46\,l^2 r^2 R^4+254\,r^4 R^4+5\,l^2 r R^5+109\,r^3 R^5+l^2 R^6-12\,r^2 R^6-16\,r R^7\right)\Big/\left((2\,r+R)^2\left(-l^2+r^2+4\,r R+3\,R^2\right)^2\right)\right\}$$

$$\left\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X23,\ \text{FarOutPoint},\ \left(4\,l^4 r^2-8\,l^2 r^4+4\,r^6+2\,l^4 r R-32\,l^2 r^3 R+30\,r^5 R-24\,l^2 r^2 R^2+72\,r^4 R^2+l^2 r R^3+57\,r^3 R^3+l^2 R^4+4\,r^2 R^4-16\,r R^5\right)\Big/\left((2\,r+R)^2\left(-2\,l^2+2\,r^2+8\,r R+9\,R^2\right)\right)\right\}$$

$$\left\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X24,\ \text{PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE},\ \left(-2\,l^6 r^2+6\,l^4 r^4-6\,l^2 r^6+2\,r^8-l^6 r R+25\,l^4 r^3 R-47\,l^2 r^5 R+23\,r^7 R+31\,l^4 r^2 R^2-142\,l^2 r^4 R^2+111\,r^6 R^2+8\,l^4 r R^3-200\,l^2 r^3 R^3+288\,r^5 R^3-122\,l^2 r^2 R^4+426\,r^4 R^4-15\,l^2 r R^5+345\,r^3 R^5-l^2 R^6+122\,r^2 R^6+4\,R^8\right)\Big/\left((2\,r+R)^2\left(-l^2+r^2+4\,r R+5\,R^2\right)^2\right)\right\}$$

$$\left\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X25,\ \text{HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES},\ \left(-2\,l^6 r^2+6\,l^4 r^4-6\,l^2 r^6+2\,r^8-l^6 r R+25\,l^4 r^3 R-47\,l^2 r^5 R+23\,r^7 R+27\,l^4 r^2 R^2-134\,l^2 r^4 R^2+107\,r^6 R^2+4\,l^4 r R^3-160\,l^2 r^3 R^3+252\,r^5 R^3-l^4 R^4-62\,l^2 r^2 R^4+303\,r^4 R^4+20\,l^2 r R^5+148\,r^3 R^5+4\,l^2 R^6-32\,r^2 R^6-64\,r R^7\right)\Big/\left((2\,r+R)^2\left(-l^2+r^2+4\,r R+6\,R^2\right)^2\right)\right\}$$

$$\left\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X26,\ \text{CIRCUMCENTER OF THE TANGENTIAL TRIANGLE},\ \left(-2\,l^6 r^2+6\,l^4 r^4-6\,l^2 r^6+2\,r^8-l^6 r R+25\,l^4 r^3 R-47\,l^2 r^5 R+23\,r^7 R+27\,l^4 r^2 R^2-134\,l^2 r^4 R^2+107\,r^6 R^2+6\,l^4 r R^3-168\,l^2 r^3 R^3+258\,r^5 R^3-82\,l^2 r^2 R^4+338\,r^4 R^4-4\,l^2 r R^5+220\,r^3 R^5+44\,r^2 R^6-12\,r R^7+R^8\right)\Big/\left((2\,r+R)^2\,(-l+r+2\,R)^2\,(l+r+2\,R)^2\right)\right\}$$

$$\left\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X27,\ \text{CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER},\ \left(-18\,l^6 r^2+30\,l^4 r^4-14\,l^2 r^6+2\,r^8-15\,l^6 r R+131\,l^4 r^3 R-93\,l^2 r^5 R+17\,r^7 R-3\,l^6 R^2+190\,l^4 r^2 R^2-243\,l^2 r^4 R^2+60\,r^6 R^2+80\,l^4 r R^3-296\,l^2 r^3 R^3+104\,r^5 R^3+8\,l^4 R^4-120\,l^2 r^2 R^4+32\,r^4 R^4+48\,l^2 r R^5-240\,r^3 R^5+16\,l^2 R^6-448\,r^2 R^6-256\,r R^7\right)\Big/\left((2\,r+R)^2\left(-l^2+3\,r^2+12\,r R+12\,R^2\right)^2\right)\right\}$$

$$\left\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),\ \left(-2\,l^6 r^2+6\,l^4 r^4-6\,l^2 r^6+2\,r^8-l^6 r R+21\,l^4 r^3 R-39\,l^2 r^5 R+19\,r^7 R+23\,l^4 r^2 R^2-96\,l^2 r^4 R^2+73\,r^6 R^2+3\,l^4 r R^3-105\,l^2 r^3 R^3+144\,r^5 R^3-l^4 R^4-31\,l^2 r^2 R^4+145\,r^4 R^4+24\,l^2 r R^5+36\,r^3 R^5+4\,l^2 R^6-76\,r^2 R^6-64\,r R^7\right)\Big/\left((2\,r+R)^2\left(-l^2+r^2+5\,r R+6\,R^2\right)^2\right)\right\}$$

$$\left\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X29,\ \text{CEVAPOINT OF INCENTER AND ORTHOCENTER},\ \left(\left(-l^2+3\,r^2+4\,r R+4\,R^2\right)\left(2\,l^4 r^2-8\,l^2 r^4+6\,r^6-l^4 r R-30\,l^2 r^3 R+51\,r^5 R-l^4 R^2-17\,l^2 r^2 R^2+156\,r^4 R^2+24\,l^2 r R^3+188\,r^3 R^3+4\,l^2 R^4+32\,r^2 R^4-64\,r R^5\right)\right)\Big/\left((2\,r+R)^2\left(-3\,l^2+r^2+8\,r R+12\,R^2\right)^2\right)\right\}$$

$$\left\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X30,\ \text{EulerInfinityPoint},\ \infty\right\}$$

$$\left\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X31,\ \text{SecondPowerPoint},\ \left(r^2\left(12\,l^4 r^2-40\,l^2 r^4+12\,r^6+4\,l^4 r R-104\,l^2 r^3 R+84\,r^5 R+3\,l^4 R^2-74\,l^2 r^2 R^2+179\,r^4 R^2-44\,l^2 r R^3+100\,r^3 R^3+4\,l^2 R^4-32\,r^2 R^4-64\,r R^5\right)\right)\Big/\left((2\,r+R)^2\left(-l^2+3\,r^2+6\,r R\right)^2\right)\right\}$$

$$\left\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X32,\ \text{ThirdPowerPoint},\ -\frac{1}{(2r+R)^2\left(-l^2-2lr+r^2+4rR\right)^2\left(-l^2+2lr+r^2+4rR\right)^2}\right.$$
$$r^2\left(-16l^8r^2+112l^6r^4-112l^4r^6+16l^2r^8-6l^8rR+224l^6r^3R-620l^4r^5R+176l^2r^7R+2r^9R-3l^8R^2+140l^6r^2R^2-1082l^4r^4R^2+668l^2r^6R^2+37r^8R^2+60l^6rR^3-724l^4r^3R^3+964l^2r^5R^3+276r^7R^3-4l^6R^4-168l^4r^2R^4+188l^2r^4R^4+1056r^6R^4+96l^4rR^5-736l^2r^3R^5+2176r^5R^5-576l^2r^2R^6+2304r^4R^6+1024r^3R^7\right)\Big\}$$

$$\left\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X33,\ \text{PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES},\right.$$
$$\left(r^2\left(4l^4r^2-8l^2r^4+4r^6-40l^2r^3R+40r^5R+3l^4R^2-66l^2r^2R^2+159r^4R^2-28l^2rR^3+308r^3R^3-28l^2R^4+288r^2R^4+128rR^5+64R^6\right)\right)\Big/\left((2r+R)^2\left(-l^2+r^2+2rR+4R^2\right)^2\right)\Big\}$$

$$\left\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X34,\ X(4)\text{-BETH CONJUGATE OF } X(4),\right.$$
$$\left(r^2\left(4l^4r^2-8l^2r^4+4r^6-8l^4rR-8l^2r^3R+16r^5R-l^4R^2+46l^2r^2R^2-13r^4R^2+52l^2rR^3-124r^3R^3+4l^2R^4-160r^2R^4-64rR^5\right)\right)\Big/\left((2r+R)^2\left(-l^2+r^2+6rR+4R^2\right)^2\right)\Big\}$$

$$\left\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),\ \frac{r^2\left(-2l^2+2r^2+8rR+9R^2\right)}{(2r+R)^2}\right\}$$

$$\left\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X36,\ \text{INVERSE-IN-CIRCUMCIRCLE OF INCENTER},\ \frac{r^2\left(-4l^2r+4r^3-2l^2R+10r^2R+18rR^2-R^3\right)}{(2r-R)(2r+R)^2}\right\}$$

$$\left\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X37,\ \text{CrosspointOfIncenterAndCentroid},\right.$$
$$\left.-\frac{r^2R\left(10l^4r-20l^2r^3+2r^5+l^4R-58l^2r^2R+21r^4R-60l^2rR^2+76r^3R^2-4l^2R^3+112r^2R^3+64rR^4\right)}{(2r+R)^2\left(l^2+r^2+4rR\right)^2}\right\}$$

$$\left\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X38,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(75),\right.$$
$$-\left(\left(r^2\left(4l^4r^2+8l^2r^4+4r^6+12l^4rR-56l^2r^3R+60r^5R+l^4R^2-190l^2r^2R^2+337r^4R^2-68l^2rR^3+780r^3R^3-4l^2R^4+416r^2R^4+64rR^5\right)\right)\Big/\left((2r+R)^2\left(l^2+r^2-2rR\right)^2\right)\right)\Big\}$$

$$\left\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X39,\ \text{BrocardMidpoint},\ -\frac{1}{(2r+R)^2\left(l^4+2l^2r^2+r^4-8l^2rR+8r^3R+16r^2R^2\right)^2}\right.$$
$$r^2R\left(2l^8r+8l^6r^3+12l^4r^5+8l^2r^7+2r^9-3l^8R-4l^6r^2R-218l^4r^4R+76l^2r^6R+37r^8R+60l^6rR^2-244l^4r^3R^2+228l^2r^5R^2+276r^7R^2-4l^6R^3-296l^4r^2R^3+188l^2r^4R^3+1056r^6R^3+96l^4rR^4-224l^2r^3R^4+2176r^5R^4-576l^2r^2R^5+2304r^4R^5+1024r^3R^6\right)\Big\}$$

$$\left\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X40,\ \text{BEVAN POINT},\ \frac{-4l^2r^2-2l^2rR+2r^3R+13r^2R^2+12rR^3+4R^4}{(2r+R)^2}\right\}$$

$$\left\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X41,\ X(6)\text{-CEVA CONJUGATE OF } X(31),\right.$$
$$-\left(\left(r^2\left(12l^6r^2-40l^4r^4+12l^2r^6+14l^6rR-178l^4r^3R+130l^2r^5R+2r^7R+4l^6R^2-243l^4r^2R^2+494l^2r^4R^2+37r^6R^2-112l^4rR^3+788l^2r^3R^3+276r^5R^3-16l^4R^4+508l^2r^2R^4+1056r^4R^4+32l^2rR^5+2176r^3R^5-64l^2R^6+2304r^2R^6+1024rR^7\right)\right)\Big/\left((2r+R)^2\left(-3l^2r+r^3-2l^2R+8r^2R+16rR^2\right)^2\right)\right)\Big\}$$

$$\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),$$
$$X42,\ \text{CROSSPOINT OF INCENTER AND SYMMEDIAN POINT},$$
$$\left(r^2\left(4 l^4 r^2+8 l^2 r^4+4 r^6+16 l^2 r^3 R+16 r^5 R+3 l^4 R^2-26 l^2 r^2 R^2-13 r^4 R^2-28 l^2 r R^3-124 r^3 R^3+4 l^2 R^4-160 r^2 R^4-64 r R^5\right)\right)\Big/\left((2 r+R)^2\left(l^2+r^2-2 r R\right)^2\right)\}$$

$$\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X43,\ X(6)\text{-CEVA CONJUGATE OF } X(1),$$
$$\left(r^2\left(4 l^4 r^2+8 l^2 r^4+4 r^6+4 l^4 r R+8 l^2 r^3 R+4 r^5 R+5 l^4 R^2-38 l^2 r^2 R^2-43 r^4 R^2-56 l^2 r R^3-184 r^3 R^3+16 l^2 R^4-304 r^2 R^4-256 r R^5\right)\right)\Big/\left((2 r+R)^2\left(l^2+r^2-8 r R\right)^2\right)\}$$

$$\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X44,\ X(6)\text{-LINE CONJUGATE OF } X(1),$$
$$-\left(\left(r^2\left(-16 l^4 r^2+48 l^2 r^4-14 l^4 r R+132 l^2 r^3 R+18 r^5 R-7 l^4 R^2+102 l^2 r^2 R^2+189 r^4 R^2+36 l^2 r R^3+684 r^3 R^3-36 l^2 R^4+1008 r^2 R^4+576 r R^5\right)\right)\Big/\left((2 r+R)^2\left(-l^2+3 r^2+12 r R\right)^2\right)\right)\}$$

$$\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X45,\ X(9)\text{-BETH CONJUGATE OF } X(1),$$
$$-\left(\left(r^2\left(8 l^4 r^2+24 l^2 r^4+22 l^4 r R-24 l^2 r^3 R+18 r^5 R+5 l^4 R^2-210 l^2 r^2 R^2+189 r^4 R^2-252 l^2 r R^3+684 r^3 R^3-36 l^2 R^4+1008 r^2 R^4+576 r R^5\right)\right)\Big/\left((2 r+R)^2\left(l^2+3 r^2+12 r R\right)^2\right)\right)\}$$

$$\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X46,$$
$$X(4)\text{-CEVA CONJUGATE OF } X(1),\ -\frac{r^2\left(4 l^2 r^2-2 l^2 r R+2 r^3 R-2 l^2 R^2+13 r^2 R^2+22 r R^3-R^4\right)}{(r-R)^2(2 r+R)^2}\}$$

$$\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X47,\ X(110)\text{-BETH CONJUGATE OF } X(34),$$
$$\left(r^2\left(12 l^4 r^2-40 l^2 r^4+12 r^6+4 l^4 r R-104 l^2 r^3 R+84 r^5 R+3 l^4 R^2-106 l^2 r^2 R^2+211 r^4 R^2-44 l^2 r R^3+228 r^3 R^3-4 l^2 R^4+120 r^2 R^4+32 r R^5+4 R^6\right)\right)\Big/\left((2 r+R)^2\left(-l^2+3 r^2+6 r R+2 R^2\right)^2\right)\}$$

$$\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X48,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(63),$$
$$-\left(\left(12 l^6 r^2-40 l^4 r^4+12 l^2 r^6+6 l^6 r R-98 l^4 r^3 R+90 l^2 r^5 R+2 r^7 R-115 l^4 r^2 R^2+234 l^2 r^4 R^2+29 r^6 R^2-12 l^4 r R^3+236 l^2 r^3 R^3+168 r^5 R^3+4 l^4 R^4+4 l^2 r^2 R^4+500 r^4 R^4-128 l^2 r R^5+816 r^3 R^5-16 l^2 R^6+704 r^2 R^6+256 r R^7\right)\Big/\left((2 r+R)^2\left(-3 l^2+r^2+6 r R+8 R^2\right)^2\right)\right)\}$$

$$\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X49,\ \text{CENTER OF SINE-TRIPLE-ANGLE CIRCLE},$$
$$\left(-4 l^6 r^2+28 l^4 r^4-28 l^2 r^6+4 r^8-2 l^6 r R+54 l^4 r^3 R-158 l^2 r^5 R+42 r^7 R+58 l^4 r^2 R^2-332 l^2 r^4 R^2+170 r^6 R^2+9 l^4 r R^3-318 l^2 r^3 R^3+329 r^5 R^3-l^4 R^4-128 l^2 r^2 R^4+293 r^4 R^4+19 l^2 r R^5+47 r^3 R^5+4 l^2 R^6-109 r^2 R^6-68 r R^7+R^8\right)\Big/\left((2 r+R)^2\left(-2 l^2+2 r^2+8 r R+7 R^2\right)^2\right)\}$$

$$\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X50,\ X(74)\text{-CEVA CONJUGATE OF } X(184),$$
$$-\left(\left(r^2\left(-16 l^8 r^2+112 l^6 r^4-112 l^4 r^6+16 l^2 r^8-6 l^8 r R+224 l^6 r^3 R-620 l^4 r^5 R+176 l^2 r^7 R+2 r^9 R-3 l^8 R^2+212 l^6 r^2 R^2-1322 l^4 r^4 R^2+740 l^2 r^6 R^2+37 r^8 R^2+84 l^6 r R^3-1336 l^4 r^3 R^3+1492 l^2 r^5 R^3+288 r^7 R^3+14 l^6 R^4-750 l^4 r^2 R^4+1442 l^2 r^4 R^4+1230 r^6 R^4-210 l^4 r R^5+464 l^2 r^3 R^5+3154 r^5 R^5-3 l^4 R^6-186 l^2 r^2 R^6+4989 r^4 R^6-156 l^2 r R^7+4780 r^3 R^7-36 l^2 R^8+2544 r^2 R^8+576 r R^9\right)\right)\Big/\left((2 r+R)^2\left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-3 l^2 R^2+19 r^2 R^2+12 r R^3\right)^2\right)\right)\}$$

$$\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X51,\ \text{CENTROID OF ORTHIC TRIANGLE},$$
$$-\frac{1}{36 R^2(2 r+R)^2}\left(-8 l^4 r^2+48 l^2 r^4-8 r^6-2 l^4 r R+124 l^2 r^3 R-66 r^5 R+l^4 R^2+42 l^2 r^2 R^2-199 r^4 R^2-12 l^2 r R^3-244 r^3 R^3-4 l^2 R^4-96 r^2 R^4+64 r R^5\right)\}$$

$$\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X52,\ \text{ORTHOCENTER OF ORTHIC TRIANGLE},$$
$$\frac{1}{4 R^2(2 r+R)^2}\left(8 l^4 r^2-48 l^2 r^4+8 r^6+6 l^4 r R-116 l^2 r^3 R+70 r^5 R+l^4 R^2-86 l^2 r^2 R^2+217 r^4 R^2-28 l^2 r R^3+284 r^3 R^3-4 l^2 R^4+160 r^2 R^4+32 r R^5+4 R^6\right)\}$$

$$\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X53,\ \text{SYMMEDIAN POINT OF ORTHIC TRIANGLE},$$
$$-\Big(\Big(r^2 R\,\big(2 l^8 r - 8 l^6 r^3 - 20 l^4 r^5 - 8 l^2 r^7 + 2 r^9 - 3 l^8 R + 52 l^6 r^2 R - 106 l^4 r^4 R - 60 l^2 r^6 R + 37 r^8 R + 44 l^6 r R^2 - 292 l^4 r^3 R^2 - 172 l^2 r^5 R^2 + 292 r^7 R^2 + 20 l^6 R^3 - 480 l^4 r^2 R^3 - 252 l^2 r^4 R^3 + 1288 r^6 R^3 - 256 l^4 r R^4 - 224 l^2 r^3 R^4 + 3488 r^5 R^4 - 16 l^4 R^5 - 128 l^2 r^2 R^5 + 5968 r^4 R^5 - 64 l^2 r R^6 + 6336 r^3 R^6 - 64 l^2 R^7 + 3840 r^2 R^7 + 1024 r R^8\big)\Big) \Big/ \Big((2 r + R)^2 \big(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 4 l^2 R^2 + 20 r^2 R^2 + 16 r R^3\big)^2\Big)\Big)\Big\}$$

$$\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X54,\ \text{KosnitaPoint},$$
$$\big(-4 l^6 r^2 + 28 l^4 r^4 - 28 l^2 r^6 + 4 r^8 - 2 l^6 r R + 54 l^4 r^3 R - 158 l^2 r^5 R + 42 r^7 R + 58 l^4 r^2 R^2 - 332 l^2 r^4 R^2 + 170 r^6 R^2 + 11 l^4 r R^3 - 338 l^2 r^3 R^3 + 339 r^5 R^3 - 146 l^2 r^2 R^4 + 354 r^4 R^4 - 11 l^2 r R^5 + 177 r^3 R^5 - l^2 R^6 + 26 r^2 R^6 + 4 R^8\big) \Big/ \Big((2 r + R)^2 \big(-2 l^2 + 2 r^2 + 8 r R + 5 R^2\big)^2\Big)\Big\}$$

$$\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X55,\ \text{INSIMILICENTER(CIRCUMCIRCLE, INCIRCLE)},$$
$$\frac{r^2\big(-2 l^2 r^2 + 2 r^4 - 3 l^2 r R + 13 r^3 R - l^2 R^2 + 26 r^2 R^2 + 16 r R^3 + 4 R^4\big)}{(r + R)^2 (2 r + R)^2}\Big\}$$

$$\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X56,$$
$$\text{EXSIMILICENTER(CIRCUMCIRCLE, INCIRCLE)},\ \frac{r^2\big(-2 l^2 r^2 + 2 r^4 + l^2 r R + r^3 R + l^2 R^2 + 4 r^2 R^2 - 16 r R^3\big)}{(r - R)^2 (2 r + R)^2}\Big\}$$

$$\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X57,$$
$$\text{ISOGONAL CONJUGATE OF } X(9),\ -\frac{r^2\big(4 l^2 r^2 - 6 l^2 r R + 6 r^3 R - 4 l^2 R^2 + 31 r^2 R^2 + 64 r R^3\big)}{(r - 2 R)^2 (2 r + R)^2}\Big\}$$

$$\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X58,\ \text{ISOGONAL CONJUGATE OF } X(10),$$
$$\Big(r^2\big(12 l^4 r^2 - 40 l^2 r^4 + 12 r^6 + 4 l^4 r R - 72 l^2 r^3 R + 52 r^5 R + 3 l^4 R^2 - 74 l^2 r^2 R^2 + 67 r^4 R^2 - 36 l^2 r R^3 - 52 r^3 R^3 + 4 l^2 R^4 - 140 r^2 R^4 - 64 r R^5\big)\Big) \Big/ \Big((2 r + R)^2 \big(-l^2 + 3 r^2 + 4 r R\big)^2\Big)\Big\}$$

$$\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X59,\ \text{ISOGONAL CONJUGATE OF } X(11),$$
$$\Big(r^2\big(-2 l^6 r + 14 l^4 r^3 - 14 l^2 r^5 + 2 r^7 - l^6 R + 25 l^4 r^2 R - 91 l^2 r^4 R + 27 r^6 R + 37 l^4 r R^2 - 206 l^2 r^3 R^2 + 141 r^5 R^2 + 6 l^4 R^3 - 216 l^2 r^2 R^3 + 362 r^4 R^3 - 141 l^2 r R^4 + 489 r^3 R^4 - 9 l^2 R^5 + 360 r^2 R^5 + 144 r R^6\big)\Big) \Big/ \Big((2 r - R)\,(2 r + R)^2 \big(-l^2 + r^2 + 5 r R + 4 R^2\big)^2\Big)\Big\}$$

$$\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X60,\ \text{ISOGONAL CONJUGATE OF } X(12),$$
$$\Big(r^2\big(-4 l^6 r^2 + 28 l^4 r^4 - 28 l^2 r^6 + 4 r^8 - 4 l^6 r R + 72 l^4 r^3 R - 148 l^2 r^5 R + 32 r^7 R - l^6 R^2 + 75 l^4 r^2 R^2 - 327 l^2 r^4 R^2 + 93 r^6 R^2 + 31 l^4 r R^3 - 354 l^2 r^3 R^3 + 79 r^5 R^3 + 4 l^4 R^4 - 182 l^2 r^2 R^4 - 150 r^4 R^4 - 17 l^2 r R^5 - 421 r^3 R^5 + 9 l^2 R^6 - 392 r^2 R^6 - 144 r R^7\big)\Big) \Big/ \Big((2 r + R)^2 \big(-2 l^2 r + 2 r^3 - l^2 R + 7 r^2 R + 7 r R^2\big)^2\Big)\Big\}$$

$$\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X61,$$
$$\text{ISOGONAL CONJUGATE OF } X(17),\ -\frac{1}{(2 r + R)^2 \left(3 l^2 + 2\sqrt{3}\, l r - 3 r^2 - 12 r R\right)^2}$$
$$3 r^2 \Big(4\sqrt{3}\, l^5 r - 16 l^4 r^2 - 24\sqrt{3}\, l^3 r^3 + 16 l^2 r^4 + 4\sqrt{3}\, l r^5 + 2\sqrt{3}\, l^5 R - 2 l^4 r R - 36\sqrt{3}\, l^3 r^2 R + 68 l^2 r^3 R + 26\sqrt{3}\, l r^4 R + 6 r^5 R - 9 l^4 R^2 - 28\sqrt{3}\, l^3 r R^2 + 94 l^2 r^2 R^2 + 44\sqrt{3}\, l r^3 R^2 + 63 r^4 R^2 + 92 l^2 r R^3 + 8\sqrt{3}\, l r^2 R^3 + 228 r^3 R^3 - 16 l^2 R^4 - 32\sqrt{3}\, l r R^4 + 336 r^2 R^4 + 192 r R^5\Big)\Big\}$$

$$\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X62,$$
$$\text{ISOGONAL CONJUGATE OF } X(18),\ -\frac{1}{(2 r + R)^2 \left(3 l^2 - 2\sqrt{3}\, l r - 3 r^2 - 12 r R\right)^2}$$
$$3 r^2 \Big(-4\sqrt{3}\, l^5 r - 16 l^4 r^2 + 24\sqrt{3}\, l^3 r^3 + 16 l^2 r^4 - 4\sqrt{3}\, l r^5 - 2\sqrt{3}\, l^5 R - 2 l^4 r R + 36\sqrt{3}\, l^3 r^2 R + 68 l^2 r^3 R - 26\sqrt{3}\, l r^4 R + 6 r^5 R - 9 l^4 R^2 + 28\sqrt{3}\, l^3 r R^2 + 94 l^2 r^2 R^2 - 44\sqrt{3}\, l r^3 R^2 + 63 r^4 R^2 + 92 l^2 r R^3 - 8\sqrt{3}\, l r^2 R^3 + 228 r^3 R^3 - 16 l^2 R^4 + 32\sqrt{3}\, l r R^4 + 336 r^2 R^4 + 192 r R^5\Big)\Big\}$$

$$\left\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X63,\ \text{ISOGONAL CONJUGATE OF } X(19),\ -\frac{4 l^2 r^4+4 r^5 R-7 l^2 r^2 R^2+28 r^4 R^2-5 l^2 r R^3+71 r^3 R^3-l^2 R^4+60 r^2 R^4+16 r R^5}{(r+R)^2 (2 r+R)^2}\right\}$$

$$\left\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X64,\ \text{ISOGONAL CONJUGATE OF } X(20),\ \left(-4 l^6 r^2+4 l^4 r^4-4 l^2 r^6+4 r^8-2 l^6 r R+48 l^4 r^3 R-62 l^2 r^5 R+48 r^7 R+115 l^4 r^2 R^2-350 l^2 r^4 R^2+299 r^6 R^2+68 l^4 r R^3-932 l^2 r^3 R^3+1152 r^5 R^3+12 l^4 R^4-1172 l^2 r^2 R^4+2796 r^4 R^4-608 l^2 r R^5+4176 r^3 R^5-112 l^2 R^6+3584 r^2 R^6+1536 r R^7+256 R^8\right) \Big/ \left((2 r+R)^2 (-l+r+2 R)^2 (l+r+2 R)^2\right)\right\}$$

$$\left\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X65,\ \text{ORTHOCENTER OF THE INTOUCH TRIANGLE},\ -\frac{r^2 \left(-2 l^2 r+6 r^3-l^2 R+19 r^2 R+16 r R^2\right)}{R (2 r+R)^2}\right\}$$

$$\left\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X66,\ \text{ISOGONAL CONJUGATE OF } X(22),\ \frac{1}{(2 r+R)^2 (-l+r+2 R)^2 (l+r+2 R)^2 \left(-l^2+r^2+4 r R\right)^2} \left(8 l^8 r^4-24 l^6 r^6+24 l^4 r^8-8 l^2 r^{10}+14 l^8 r^3 R-140 l^6 r^5 R+240 l^4 r^7 R-116 l^2 r^9 R+2 r^{11} R+l^8 r^2 R^2-248 l^6 r^4 R^2+914 l^4 r^6 R^2-704 l^2 r^8 R^2+37 r^{10} R^2-6 l^8 r R^3-108 l^6 r^3 R^3+1600 l^4 r^5 R^3-2276 l^2 r^7 R^3+278 r^9 R^3-l^8 R^4+68 l^6 r^2 R^4+1150 l^4 r^4 R^4-4100 l^2 r^6 R^4+1091 r^8 R^4+48 l^6 r R^5-8 l^4 r^3 R^5-3840 l^2 r^5 R^5+2392 r^7 R^5+4 l^6 R^6-332 l^4 r^2 R^6-1268 l^2 r^4 R^6+2876 r^6 R^6-80 l^4 r R^7+448 l^2 r^3 R^7+1616 r^5 R^7+272 l^2 r^2 R^8+64 r^4 R^8-256 r^3 R^9\right)\right\}$$

$$\left\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X67,\ \text{ISOGONAL CONJUGATE OF } X(23),\ -\frac{1}{(2 r+R)^2 \left(-l^2+r^2+4 r R\right)^2 \left(-2 l^2+2 r^2+8 r R+9 R^2\right)} \left(2 l^8 r^2+16 l^6 r^4-36 l^4 r^6+16 l^2 r^8+2 r^{10}+3 l^8 r R-4 l^6 r^3 R-162 l^4 r^5 R+132 l^2 r^7 R+31 r^9 R+l^8 R^2-50 l^6 r^2 R^2-228 l^4 r^4 R^2+482 l^2 r^6 R^2+179 r^8 R^2-34 l^6 r R^3+48 l^4 r^3 R^3+970 l^2 r^5 R^3+456 r^7 R^3-4 l^6 R^4+213 l^4 r^2 R^4+882 l^2 r^4 R^4+413 r^6 R^4+72 l^4 r R^5+92 l^2 r^3 R^5-148 r^5 R^5-132 l^2 r^2 R^6-272 r^4 R^6+64 r^3 R^7\right)\right\}$$

$$\left\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X68,\ \text{PRASOLOV POINT},\ \left((r+R)^2 \left(8 l^4 r^2-8 l^2 r^4-2 l^4 r R-32 l^2 r^3 R+2 r^5 R+l^4 R^2-54 l^2 r^2 R^2+21 r^4 R^2+8 l^2 r R^3+72 r^3 R^3-4 l^2 R^4+80 r^2 R^4-8 r R^5+4 R^6\right)\right) \Big/ \left((2 r+R)^2 (-l+r+2 R)^2 (l+r+2 R)^2\right)\right\}$$

$$\left\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X69,\ \text{SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},\ -\left(\left(-2 l^6 r^2-10 l^4 r^4+10 l^2 r^6+2 r^8-3 l^6 r R+7 l^4 r^3 R+35 l^2 r^5 R+25 r^7 R-l^6 R^2+34 l^4 r^2 R^2+151 l^2 r^4 R^2+104 r^6 R^2+16 l^4 r R^3+96 l^2 r^3 R^3+144 r^5 R^3\right) \Big/ \left((2 r+R)^2 \left(-l^2+r^2+4 r R\right)^2\right)\right)\right\}$$

$$\left\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X70,\ \text{ISOGONAL CONJUGATE OF } X(26),\ \left(8 l^8 r^4-24 l^6 r^6+24 l^4 r^8-8 l^2 r^{10}+14 l^8 r^3 R-140 l^6 r^5 R+240 l^4 r^7 R-116 l^2 r^9 R+2 r^{11} R+3 l^8 r^2 R^2-280 l^6 r^4 R^2+974 l^4 r^6 R^2-736 l^2 r^8 R^2+39 r^{10} R^2-3 l^8 r R^3-196 l^6 r^3 R^3+2002 l^4 r^5 R^3-2636 l^2 r^7 R^3+321 r^9 R^3-2 l^6 r^2 R^4+2078 l^4 r^4 R^4-5710 l^2 r^6 R^4+1458 r^8 R^4+29 l^6 r R^5+853 l^4 r^3 R^5-7413 l^2 r^5 R^5+4003 r^7 R^5-l^6 R^6-73 l^4 r^2 R^6-5271 l^2 r^4 R^6+6809 r^6 R^6-87 l^4 r R^7-1490 l^2 r^3 R^7+6989 r^5 R^7+6 l^4 R^8+162 l^2 r^2 R^8+3904 r^4 R^8+93 l^2 r R^9+833 r^3 R^9-9 l^2 R^{10}-86 r^2 R^{10}-32 r R^{11}+4 R^{12}\right) \Big/ \left((2 r+R)^2 \left(l^4-2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-6 l^2 R^2+22 r^2 R^2+24 r R^3+7 R^4\right)^2\right)\right\}$$

$$\left\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X71,\ \text{ISOGONAL CONJUGATE OF } X(27),\ -\left(\left(4 l^6 r^2+8 l^4 r^4+4 l^2 r^6+2 l^6 r R+22 l^4 r^3 R+22 l^2 r^5 R+2 r^7 R-3 l^4 r^2 R^2+42 l^2 r^4 R^2+29 r^6 R^2-28 l^4 r R^3+44 l^2 r^3 R^3+168 r^5 R^3-12 l^4 R^4+36 l^2 r^2 R^4+500 r^4 R^4+816 r^3 R^5-16 l^2 R^6+704 r^2 R^6+256 r R^7\right) \Big/ \left((2 r+R)^2 \left(l^2+r^2+6 r R+8 R^2\right)^2\right)\right)\right\}$$

$$\left\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X72,\ \text{ISOGONAL CONJUGATE OF } X(28),\ -\frac{(r+R)^2 \left(-2 l^2 r+6 r^3-l^2 R+19 r^2 R+16 r R^2\right)}{R (2 r+R)^2}\right\}$$

$$\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X73,\ \text{CROSSPOINT OF INCENTER AND CIRCUMCENTER},$$
$$\left(r^2\left(4 l^4 r^2+8 l^2 r^4+4 r^6-8 l^4 r R+8 r^5 R-l^4 R^2-2 l^2 r^2 R^2+15 r^4 R^2+52 l^2 r R^3+52 r^3 R^3+4 l^2 R^4+16 r^2 R^4-64 r R^5\right)\right)\Big/\left((2 r+R)^2\left(l^2+r^2-2 r R-4 R^2\right)^2\right)\}$$

$$\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),$$
$$X74,\ \text{ISOGONAL CONJUGATE OF EULER INFINITY POINT},$$
$$\left(6 l^4 r^2-4 l^2 r^4+6 r^6+3 l^4 r R-46 l^2 r^3 R+47 r^5 R-96 l^2 r^2 R^2+184 r^4 R^2-51 l^2 r R^3+393 r^3 R^3-9 l^2 R^4+418 r^2 R^4+192 r R^5+36 R^6\right)\Big/\left((2 r+R)^2\left(-2 l^2+2 r^2+8 r R+9 R^2\right)\right)\}$$

$$\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X75,\ \text{ISOTOMIC CONJUGATE OF INCENTER},$$
$$-\left(\left(-2 l^6 r^2-2 l^4 r^4+2 l^2 r^6+2 r^8-3 l^6 r R+35 l^4 r^3 R-65 l^2 r^5 R+25 r^7 R-l^6 R^2+46 l^4 r^2 R^2-169 l^2 r^4 R^2+104 r^6 R^2+16 l^4 r R^3-96 l^2 r^3 R^3+144 r^5 R^3\right)\Big/\left((2 r+R)^2\left(l^2+r^2+4 r R\right)^2\right)\right)\}$$

$$\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X76,$$
$$\text{3rd BROCARD POINT},\ -\frac{1}{(2 r+R)^2\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)^2}$$
$$\left(-2 l^{10} r^2-6 l^8 r^4-4 l^6 r^6+4 l^4 r^8+6 l^2 r^{10}+2 r^{12}-3 l^{10} r R+29 l^8 r^3 R+18 l^6 r^5 R-22 l^4 r^7 R+33 l^2 r^9 R+41 r^{11} R-l^{10} R^2+60 l^8 r^2 R^2-22 l^6 r^4 R^2-404 l^4 r^6 R^2+15 l^2 r^8 R^2+336 r^{10} R^2+24 l^8 r R^3-232 l^6 r^3 R^3-952 l^4 r^5 R^3+168 l^2 r^7 R^3+1376 r^9 R^3-144 l^6 r^2 R^4-288 l^4 r^4 R^4+1392 l^2 r^6 R^4+2816 r^8 R^4+256 l^4 r^3 R^5+1536 l^2 r^5 R^5+2304 r^7 R^5\right)\}$$

$$\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X77,\ \text{ISOGONAL CONJUGATE OF } X(33),$$
$$-\left(\left(r^2\left(-4 l^4 r^2+10 l^4 r R-2 l^2 r^3 R+2 l^4 R^2-19 l^2 r^2 R^2+2 r^4 R^2-83 l^2 r R^3+25 r^3 R^3-9 l^2 R^4+104 r^2 R^4+144 r R^5\right)\right)\Big/\left((2 r+R)^2\left(-l^2+r R+4 R^2\right)^2\right)\right)\}$$

$$\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X78,\ \text{ISOGONAL CONJUGATE OF } X(34),$$
$$\frac{4 r^6+2 l^2 r^3 R+6 r^5 R+3 l^2 r^2 R^2-12 r^4 R^2+3 l^2 r R^3-41 r^3 R^3+l^2 R^4-40 r^2 R^4-16 r R^5}{(r-R)^2(2 r+R)^2}\}$$

$$\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X79,$$
$$\text{ISOGONAL CONJUGATE OF } X(35),\ -\frac{r^2(2 r-R)\left(8 l^2 r+4 l^2 R+2 r R^2+9 R^3\right)}{(2 r+R)^2(2 r+3 R)^2}\}$$

$$\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),$$
$$X80,\ \text{REFLECTION OF INCENTER IN FEUERBACH POINT},\ \frac{r^2(2 r+3 R)^2}{(2 r+R)^2}\}$$

$$\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X81,\ \text{CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},$$
$$-\left(\left(r^2\left(-8 l^4 r^2+8 l^2 r^4+20 l^2 r^3 R+4 r^5 R-2 l^4 R^2+42 l^2 r^2 R^2+28 r^4 R^2+19 l^2 r R^3+71 r^3 R^3-l^2 R^4+60 r^2 R^4+16 r R^5\right)\right)\Big/\left((2 r+R)^2\left(-l^2+r^2+r R\right)^2\right)\right)\}$$

$$\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X82,$$
$$\text{ISOGONAL CONJUGATE OF } X(38),\ \frac{1}{(2 r+R)^2\left(l^4-4 l^2 r^2+3 r^4-9 l^2 r R+19 r^3 R+28 r^2 R^2\right)^2}$$
$$r^2\left(12 l^8 r^2-64 l^6 r^4+104 l^4 r^6-64 l^2 r^8+12 r^{10}+2 l^8 r R-212 l^6 r^3 R+712 l^4 r^5 R-684 l^2 r^7 R+182 r^9 R+2 l^8 R^2-88 l^6 r^2 R^2+1460 l^4 r^4 R^2-2632 l^2 r^6 R^2+1066 r^8 R^2-53 l^6 r R^3+845 l^4 r^3 R^3-4247 l^2 r^5 R^3+2983 r^7 R^3+l^6 R^4+426 l^4 r^2 R^4-2687 l^2 r^4 R^4+3944 r^6 R^4-32 l^4 r R^5-1008 l^2 r^3 R^5+1968 r^5 R^5+320 l^2 r^2 R^6-256 r^4 R^6-1024 r^3 R^7\right)\}$$

$$\left\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X83,\ \text{CEVAPOINT OF CENTROID AND SYMMEDIAN POINT},\right.$$
$$\frac{1}{(2r+R)^2\left(5l^4-6l^2r^2+5r^4-40l^2rR+40r^3R+80r^2R^2\right)^2}$$
$$\left(-6l^{10}r^2+110l^8r^4-396l^6r^6+396l^4r^8-110l^2r^{10}+6r^{12}-l^{10}rR+119l^8r^3R-\right.$$
$$1530l^6r^5R+3070l^4r^7R-1333l^2r^9R+91r^{11}R+l^{10}R^2+52l^8r^2R^2-1178l^6r^4R^2+$$
$$7172l^4r^6R^2-5727l^2r^8R^2+464r^{10}R^2-40l^8rR^3-552l^6r^3R^3+5256l^4r^5R^3-$$
$$9880l^2r^7R^3+480r^9R^3+592l^6r^2R^4+928l^4r^4R^4-3760l^2r^6R^4-3840r^8R^4-$$
$$\left.\left.4096l^4r^3R^5+8448l^2r^5R^5-15616r^7R^5+13312l^2r^4R^6-24576r^6R^6-16384r^5R^7\right)\right\}$$

$$\left\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X84,\ \text{ISOGONAL CONJUGATE OF } X(40),\right.$$
$$\left.-\frac{4l^2r^4-18l^2r^3R+10r^5R-2l^2r^2R^2+41r^4R^2+12l^2rR^3+52r^3R^3+4l^2R^4-48r^2R^4-64rR^5-16R^6}{r^2(2r+R)^2}\right\}$$

$$\left\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X85,\ \text{ISOTOMIC CONJUGATE OF } X(9),\right.$$
$$-\left(\left(\left(-l^2r+r^3-l^2R+8r^2R+16rR^2\right)\left(2l^4r+4l^2r^3+2r^5+l^4R-38l^2r^2R+\right.\right.\right.$$
$$\left.\left.\left.25r^4R-24l^2rR^2+104r^3R^2+144r^2R^3\right)\right)\Big/\left((2r+R)^2\left(l^2+r^2+8rR+16R^2\right)^2\right)\right)\Big\}$$

$$\left\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X86,\ \text{CEVAPOINT OF INCENTER AND CENTROID},\right.$$
$$-\left(\left(6l^6r^2-50l^4r^4+10l^2r^6+2r^8+l^6rR+11l^4r^3R+35l^2r^5R+25r^7R-l^6R^2-50l^4r^2R^2+\right.\right.$$
$$\left.\left.\left.103l^2r^4R^2+104r^6R^2+16l^4rR^3-96l^2r^3R^3+144r^5R^3\right)\Big/\left((2r+R)^2\left(5l^2+r^2+4rR\right)^2\right)\right)\Big\}$$

$$\left\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X87,\right.$$
$$X(2)\text{-CROSS CONJUGATE OF } X(1),\ \frac{1}{(2r+R)^2\left(l^4+2l^2r^2+r^4-20l^2rR+12r^3R+32r^2R^2\right)^2}$$
$$r^2\left(4l^8r^2+16l^6r^4+24l^4r^6+16l^2r^8+4r^{10}+4l^8rR-144l^6r^3R-200l^4r^5R+\right.$$
$$48l^2r^7R+100r^9R+5l^8R^2-92l^6r^2R^2+1678l^4r^4R^2-1468l^2r^6R^2+853r^8R^2-$$
$$144l^6rR^3+784l^4r^3R^3-4144l^2r^5R^3+3120r^7R^3+16l^6R^4+1152l^4r^2R^4-3888l^2r^4R^4+$$
$$\left.\left.4192r^6R^4-384l^4rR^5-896l^2r^3R^5-1536r^5R^5+2304l^2r^2R^6-6912r^4R^6-4096r^3R^7\right)\right\}$$

$$\left\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X88,\ \text{ISOGONAL CONJUGATE OF } X(44),\right.$$
$$-\left(\left(r^2(2r-R)\left(4l^4r+12l^2r^3+4l^4R-60l^2r^2R+36r^4R-81l^2rR^2+\right.\right.\right.$$
$$\left.\left.\left.153r^3R^2+9l^2R^3+324r^2R^3-144rR^4\right)\right)\Big/\left((2r+R)^2\left(l^2+3r^2-15rR\right)^2\right)\right)\Big\}$$

$$\left\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X89,\ \text{ISOGONAL CONJUGATE OF } X(45),\right.$$
$$-\left(\left(r^2\left(-64l^4r^2+192l^2r^4-20l^4rR+96l^2r^3R+180r^5R-10l^4R^2+354l^2r^2R^2+1080r^4R^2+63l^2rR^3+\right.\right.\right.$$
$$\left.\left.\left.2439r^3R^3-9l^2R^4+1116r^2R^4+144rR^5\right)\right)\Big/\left((2r+R)^2\left(-2l^2+6r^2-3rR\right)^2\right)\right)\Big\}$$

$$\left\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X90,\ X(3)\text{-CROSS CONJUGATE OF } X(1),\right.$$
$$\left.-\frac{r^2\left(4l^2r^4-6l^2r^3R+6r^5R-16l^2r^2R^2+43r^4R^2-6l^2rR^3+106r^3R^3+102r^2R^4+36rR^5-9R^6\right)}{(2r+R)^2\left(r^2+2rR-R^2\right)^2}\right\}$$

$$\left\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X91,\ \text{ISOGONAL CONJUGATE OF } X(47),\right.$$
$$-\left(\left(r^2\left(-2l^6r^2-2l^4r^4+2l^2r^6+2r^8-5l^6rR+37l^4r^3R-55l^2r^5R+31r^7R-2l^6R^2+\right.\right.\right.$$
$$\left.\left.\left.99l^4r^2R^2-284l^2r^4R^2+191r^6R^2+72l^4rR^3-568l^2r^3R^3+608r^5R^3+7l^4R^4-\right.\right.$$
$$\left.\left.\left.534l^2r^2R^4+1091r^4R^4-204l^2rR^5+1140r^3R^5-4l^2R^6+656r^2R^6+160rR^7-4R^8\right)\right)\Big/$$
$$\left.\left.\left((2r+R)^2\left(l^2r+r^3-l^2R+3r^2R+2rR^2+2R^3\right)^2\right)\right)\Big\}$$

$$\left\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X92,\right.$$
$$\text{CEVAPOINT OF INCENTER AND CLAWSON POINT},\ -\frac{1}{(2r+R)^2\left(l^2+r^2-4R^2\right)^2}$$
$$\left(-2l^6r^2-2l^4r^4+2l^2r^6+2r^8-3l^6rR+43l^4r^3R-49l^2r^5R+33r^7R-l^6R^2+82l^4r^2R^2-\right.$$
$$289l^2r^4R^2+204r^6R^2+48l^4rR^3-592l^2r^3R^3+672r^5R^3+8l^4R^4-552l^2r^2R^4+1312r^4R^4-$$
$$\left.\left.208l^2rR^5+1520r^3R^5-16l^2R^6+960r^2R^6+256rR^7\right)\right\}$$

$$\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X93,\ \text{ISOGONAL CONJUGATE OF } X(49),$$
$$-\Big(\big(-2 l^{10} r^2 - 6 l^8 r^4 - 4 l^6 r^6 + 4 l^4 r^8 + 6 l^2 r^{10} + 2 r^{12} - 3 l^{10} r R + 29 l^8 r^3 R + 18 l^6 r^5 R - 22 l^4 r^7 R + 33 l^2 r^9 R + 41 r^{11} R - l^{10} R^2 + 76 l^8 r^2 R^2 + 42 l^6 r^4 R^2 - 308 l^4 r^6 R^2 + 79 l^2 r^8 R^2 + 352 r^{10} R^2 + 52 l^8 r R^3 - 368 l^6 r^3 R^3 - 1048 l^4 r^5 R^3 + 496 l^2 r^7 R^3 + 1636 r^9 R^3 + 10 l^8 R^4 - 628 l^6 r^2 R^4 - 1112 l^4 r^4 R^4 + 2644 l^2 r^6 R^4 + 4398 r^8 R^4 - 296 l^6 r R^5 + 916 l^4 r^3 R^5 + 6240 l^2 r^5 R^5 + 6564 r^7 R^5 - 32 l^6 R^6 + 1838 l^4 r^2 R^6 + 6060 l^2 r^4 R^6 + 3966 r^6 R^6 + 708 l^4 r R^7 + 744 l^2 r^3 R^7 - 2220 r^5 R^7 + 34 l^4 R^8 - 1894 l^2 r^2 R^8 - 4380 r^4 R^8 - 733 l^2 r R^9 - 1325 r^3 R^9 - 7 l^2 R^{10} + 598 r^2 R^{10} + 272 r R^{11} - 4 R^{12}\big) \Big/ \big((2 r + R)^2 \left(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 8 l^2 R^2 + 24 r^2 R^2 + 32 r R^3 + 13 R^4\right)^2\big)\Big)\}$$

$$\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X94,\ \text{ISOGONAL CONJUGATE OF } X(50),$$
$$-\Big(\big(-2 l^{10} r^2 - 6 l^8 r^4 - 4 l^6 r^6 + 4 l^4 r^8 + 6 l^2 r^{10} + 2 r^{12} - 3 l^{10} r R + 29 l^8 r^3 R + 18 l^6 r^5 R - 22 l^4 r^7 R + 33 l^2 r^9 R + 41 r^{11} R - l^{10} R^2 + 72 l^8 r^2 R^2 + 26 l^6 r^4 R^2 - 332 l^4 r^6 R^2 + 63 l^2 r^8 R^2 + 348 r^{10} R^2 + 54 l^8 r R^3 - 328 l^6 r^3 R^3 - 1036 l^4 r^5 R^3 + 408 l^2 r^7 R^3 + 1574 r^9 R^3 + 12 l^8 R^4 - 636 l^6 r^2 R^4 - 924 l^4 r^4 R^4 + 2412 l^2 r^6 R^4 + 3968 r^8 R^4 - 372 l^6 r R^5 + 1120 l^4 r^3 R^5 + 5724 l^2 r^5 R^5 + 4872 r^7 R^5 - 54 l^6 R^6 + 2436 l^4 r^2 R^6 + 5082 l^2 r^4 R^6 + 1242 l^4 r R^7 - 1068 l^2 r^3 R^7 - 7542 r^5 R^7 + 108 l^4 R^8 - 4410 l^2 r^2 R^8 - 7578 r^4 R^8 - 2025 l^2 r R^9 - 369 r^3 R^9 - 81 l^2 R^{10} + 3132 r^2 R^{10} + 1296 r R^{11}\big) \Big/ \big((2 r + R)^2 \left(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 12 l^2 R^2 + 28 r^2 R^2 + 48 r R^3 + 27 R^4\right)^2\big)\Big)\}$$

$$\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X95,\ \text{CEVAPOINT OF CENTROID AND CIRCUMCENTER},$$
$$-\Big(\big(-2 l^{10} r^2 - 6 l^8 r^4 + 508 l^6 r^6 - 508 l^4 r^8 + 6 l^2 r^{10} + 2 r^{12} - 3 l^{10} r R - 3 l^8 r^3 R + 242 l^6 r^5 R - 1782 l^4 r^7 R + 65 l^2 r^9 R + 41 r^{11} R - l^{10} R^2 + 60 l^8 r^2 R^2 + 410 l^6 r^4 R^2 - 3108 l^4 r^6 R^2 + 223 l^2 r^8 R^2 + 352 r^{10} R^2 + 48 l^8 r R^3 + 8 l^6 r^3 R^3 - 2200 l^4 r^5 R^3 + 248 l^2 r^7 R^3 + 1640 r^9 R^3 + 8 l^8 R^4 - 488 l^6 r^2 R^4 - 3048 l^4 r^4 R^4 + 904 l^2 r^6 R^4 + 4480 r^8 R^4 - 208 l^6 r R^5 - 80 l^4 r^3 R^5 + 4112 l^2 r^5 R^5 + 7184 r^7 R^5 - 16 l^6 R^6 + 1056 l^4 r^2 R^6 + 5488 l^2 r^4 R^6 + 6272 r^6 R^6 + 256 l^4 r R^7 + 1536 l^2 r^3 R^7 + 2304 r^5 R^7\big) \Big/ \big((2 r + R)^2 \left(l^4 + 18 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 4 l^2 R^2 + 20 r^2 R^2 + 16 r R^3\right)^2\big)\Big)\}$$

$$\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X96,$$
$$\text{ISOGONAL CONJUGATE OF } X(52),\ \frac{1}{(2 r + R)^2 \left(l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2 - 4 R^4\right)^2}$$
$$\big(-6 l^{10} r^2 + 110 l^8 r^4 - 396 l^6 r^6 + 396 l^4 r^8 - 110 l^2 r^{10} + 6 r^{12} - 5 l^{10} r R + 195 l^8 r^3 R - 1506 l^6 r^5 R + 2902 l^4 r^7 R - 1417 l^2 r^9 R + 119 r^{11} R - l^{10} R^2 + 178 l^8 r^2 R^2 - 2798 l^6 r^4 R^2 + 9216 l^4 r^6 R^2 - 7529 l^2 r^8 R^2 + 1014 r^{10} R^2 + 76 l^8 r R^3 - 2632 l^6 r^3 R^3 + 16176 l^4 r^5 R^3 - 22040 l^2 r^7 R^3 + 4900 r^9 R^3 + 12 l^8 R^4 - 1416 l^6 r^2 R^4 + 17648 l^4 r^4 R^4 - 40408 l^2 r^6 R^4 + 15012 r^8 R^4 - 432 l^6 r R^5 + 11888 l^4 r^3 R^5 - 49552 l^2 r^5 R^5 + 31056 r^7 R^5 - 56 l^6 R^6 + 4880 l^4 r^2 R^6 - 41464 l^2 r^4 R^6 + 45120 r^6 R^6 + 1168 l^4 r R^7 - 22784 l^2 r^3 R^7 + 46640 r^5 R^7 + 128 l^4 R^8 - 7744 l^2 r^2 R^8 + 33600 r^4 R^8 - 1520 l^2 r R^9 + 15952 r^3 R^9 - 144 l^2 R^{10} + 4640 r^2 R^{10} + 768 r R^{11} + 64 R^{12}\big)\}$$

$$\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X97,\ \text{ISOGONAL CONJUGATE OF } X(53),$$
$$-\Big(\big(-16 l^8 r^4 + 112 l^6 r^6 - 112 l^4 r^8 + 16 l^2 r^{10} - 6 l^8 r^3 R + 224 l^6 r^5 R - 620 l^4 r^7 R + 176 l^2 r^9 R + 2 r^{11} R - 5 l^8 r^2 R^2 + 268 l^6 r^4 R^2 - 1462 l^4 r^6 R^2 + 796 l^2 r^8 R^2 + 35 r^{10} R^2 - l^8 r R^3 + 116 l^6 r^3 R^3 - 1770 l^4 r^5 R^3 + 1900 l^2 r^7 R^3 + 267 r^9 R^3 + 58 l^6 r^2 R^4 - 1314 l^4 r^4 R^4 + 2566 l^2 r^6 R^4 + 1170 r^8 R^4 + 3 l^6 r R^5 - 495 l^4 r^3 R^5 + 1893 l^2 r^5 R^5 + 3271 r^7 R^5 - l^6 R^6 - 106 l^4 r^2 R^6 + 439 l^2 r^4 R^6 + 6132 r^6 R^6 + 48 l^4 r R^7 - 536 l^2 r^3 R^7 + 7880 r^5 R^7 + 8 l^4 R^8 - 568 l^2 r^2 R^8 + 6944 r^4 R^8 - 240 l^2 r R^9 + 4080 r^3 R^9 - 16 l^2 R^{10} + 1472 r^2 R^{10} + 256 r R^{11}\big) \Big/ \big((2 r + R)^2 \left(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 7 l^2 R^2 + 23 r^2 R^2 + 28 r R^3 + 12 R^4\right)^2\big)\Big)\}$$

$$\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X98,\ \text{TarryPoint},$$
$$\big(-6 l^6 r^2 + 26 l^4 r^4 - 26 l^2 r^6 + 6 r^8 - 5 l^6 r R + 77 l^4 r^3 R - 167 l^2 r^5 R + 71 r^7 R - l^6 R^2 + 84 l^4 r^2 R^2 - 389 l^2 r^4 R^2 + 310 r^6 R^2 + 32 l^4 r R^3 - 400 l^2 r^3 R^3 + 624 r^5 R^3 + 4 l^4 R^4 - 184 l^2 r^2 R^4 + 612 r^4 R^4 - 32 l^2 r R^5 + 288 r^3 R^5 + 64 r^2 R^6\big) \Big/ \big((2 r + R)^2 \left(l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\right)\big)\}$$

$$\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X99,\ \text{STEINER POINT},$$
$$-\Big(\big(-2 l^6 r^2 - 34 l^4 r^4 + 34 l^2 r^6 + 2 r^8 - 3 l^6 r R + 3 l^4 r^3 R + 95 l^2 r^5 R + 25 r^7 R - l^6 R^2 + 38 l^4 r^2 R^2 + 223 l^2 r^4 R^2 + 104 r^6 R^2 + 16 l^4 r R^3 + 96 l^2 r^3 R^3 + 144 r^5 R^3\big) \Big/ \big((2 r + R)^2 \left(l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\right)\big)\Big)\}$$

$$\left\{X12,\ \{X(1),X(5)\}\text{-HARMONIC CONJUGATE OF } X(11),\ X100,\ \text{ANTICOMPLEMENT OF FEUERBACH POINT},\ \frac{-4 l^2 r^3+4 r^5-4 l^2 r^2 R+24 r^4 R-3 l^2 r R^2+51 r^3 R^2-l^2 R^3+44 r^2 R^3+16 r R^4}{(2 r-R)(2 r+R)^2}\right\}$$

$$\left\{X13,\ \text{FERMAT POINT},\ X14,\ \text{2nd ISOGONIC CENTER},\ -\frac{16 l^2 r^2 \left(2 l^2-2 r^2-8 r R-9 R^2\right)}{3\left(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)}\right\}$$

$$\left\{X13,\ \text{FERMAT POINT},\ X15,\ \text{1st ISODYNAMIC POINT},\ -\frac{16 l^2 r^2 \left(2 l^2-2 r^2-8 r R-9 R^2\right)}{3\left(l^2+2\sqrt{3}\, l r-r^2-4 r R\right)^2}\right\}$$

$$\left\{X13,\ \text{FERMAT POINT},\ X16,\ \text{2nd ISODYNAMIC POINT},\ \frac{16 l^2 r^2}{3\left(l^2-2\sqrt{3}\, l r-r^2-4 r R\right)}\right\}$$

$$\left\{X13,\ \text{FERMAT POINT},\ X17,\ \text{1st NAPOLEON POINT},\ -\frac{16 l^2 r^2 \left(4\sqrt{3}\, l^3 r+8 l^2 r^2-4\sqrt{3}\, l r^3-16\sqrt{3}\, l r^2 R-3 l^2 R^2-18\sqrt{3}\, l r R^2+3 r^2 R^2+12 r R^3\right)}{\left(3 l^2+10\sqrt{3}\, l r-3 r^2-12 r R\right)^2\left(l^2+2\sqrt{3}\, l r-r^2-4 r R\right)}\right\}$$

$$\left\{X13,\ \text{FERMAT POINT},\ X18,\ \text{2nd NAPOLEON POINT},\ \frac{64 l^2 r^2 \left(4\sqrt{3}\, l^3 r-8 l^2 r^2-4\sqrt{3}\, l r^3-16\sqrt{3}\, l r^2 R+3 l^2 R^2-18\sqrt{3}\, l r R^2-3 r^2 R^2-12 r R^3\right)}{\left(3 l^2-10\sqrt{3}\, l r-3 r^2-12 r R\right)^2\left(l^2+2\sqrt{3}\, l r-r^2-4 r R\right)}\right\}$$

$$\left\{X13,\ \text{FERMAT POINT},\ X19,\ \text{CLAWSON POINT},\ -\frac{1}{3\left(l^2+2\sqrt{3}\, l r-r^2-4 r R\right)\left(l^2-r^2-6 r R-8 R^2\right)^2}\right.$$
$$\left.4 l^2\left(2\sqrt{3}\, l^5 r+2 l^4 r^2-4\sqrt{3}\, l^3 r^3-4 l^2 r^4+2\sqrt{3}\, l r^5+2 r^6+6 l^4 r R-14\sqrt{3}\, l^3 r^2 R-30 l^2 r^3 R+14\sqrt{3}\, l r^4 R+24 r^5 R+3 l^4 R^2-18\sqrt{3}\, l^3 r R^2-80 l^2 r^2 R^2+42\sqrt{3}\, l r^3 R^2+113 r^4 R^2-72 l^2 r R^3+64\sqrt{3}\, l r^2 R^3+264 r^3 R^3-12 l^2 R^4+40\sqrt{3}\, l r R^4+308 r^2 R^4+144 r R^5\right)\right\}$$

$$\left\{X13,\ \text{FERMAT POINT},\ X20,\ \text{DE LONGCHAMPS POINT},\ -\left(\left(9 l^4+32\sqrt{3}\, l^3 r+2 l^2 r^2-32\sqrt{3}\, l r^3+9 r^4-72 l^2 r R-128\sqrt{3}\, l r^2 R+72 r^3 R-48 l^2 R^2-144\sqrt{3}\, l r R^2+192 r^2 R^2+192 r R^3\right)\Big/\left(3\left(l^2+2\sqrt{3}\, l r-r^2-4 r R\right)\right)\right)\right\}$$

$$\left\{X13,\ \text{FERMAT POINT},\ X21,\ \text{SCHIFFLER POINT},\ \left(-16\sqrt{3}\, l^3 r^3-32 l^2 r^4+16\sqrt{3}\, l r^5+6 l^4 r R-16\sqrt{3}\, l^3 r^2 R-84 l^2 r^3 R+80\sqrt{3}\, l r^4 R+6 r^5 R+3 l^4 R^2-78 l^2 r^2 R^2+136\sqrt{3}\, l r^3 R^2+39 r^4 R^2-24 l^2 r R^3+72\sqrt{3}\, l r^2 R^3+72 r^3 R^3+48 r^2 R^4\right)\Big/\left(3(2 r+3 R)^2\left(l^2+2\sqrt{3}\, l r-r^2-4 r R\right)\right)\right\}$$

$$\left\{X13,\ \text{FERMAT POINT},\ X22,\ \text{ExeterPoint},\ -\frac{1}{3\left(l^2+2\sqrt{3}\, l r-r^2-4 r R\right)\left(l^2-r^2-4 r R-3 R^2\right)^2}\right.$$
$$\left(4\sqrt{3}\, l^7 r+8 l^6 r^2-12\sqrt{3}\, l^5 r^3-16 l^4 r^4+12\sqrt{3}\, l^3 r^5+8 l^2 r^6-4\sqrt{3}\, l r^7-48\sqrt{3}\, l^5 r^2 R-64 l^4 r^3 R+96\sqrt{3}\, l^3 r^4 R+64 l^2 r^5 R-48\sqrt{3}\, l r^6 R-26\sqrt{3}\, l^5 r R^2-36 l^4 r^2 R^2+244\sqrt{3}\, l^3 r^3 R^2+164 l^2 r^4 R^2-218\sqrt{3}\, l r^5 R^2+208\sqrt{3}\, l^3 r^2 R^3+144 l^2 r^3 R^3-464\sqrt{3}\, l r^4 R^3-3 l^4 R^4+36\sqrt{3}\, l^3 r R^4+42 l^2 r^2 R^4-452\sqrt{3}\, l r^3 R^4-3 r^4 R^4+24 l^2 r R^5-144\sqrt{3}\, l r^2 R^5-24 r^3 R^5-48 r^2 R^6\right)\Big\}$$

$$\left\{X13,\ \text{FERMAT POINT},\ X23,\ \text{FarOutPoint},\ -\left(\left(8\sqrt{3}\, l^5 r+16 l^4 r^2-16\sqrt{3}\, l^3 r^3-16 l^2 r^4+8\sqrt{3}\, l r^5-64\sqrt{3}\, l^3 r^2 R-64 l^2 r^3 R+64\sqrt{3}\, l r^4 R+3 l^4 R^2-24\sqrt{3}\, l^3 r R^2-42 l^2 r^2 R^2+152\sqrt{3}\, l r^3 R^2+3 r^4 R^2-24 l^2 r R^3+96\sqrt{3}\, l r^2 R^3+24 r^3 R^3+48 r^2 R^4\right)\Big/\left(3\left(l^2+2\sqrt{3}\, l r-r^2-4 r R\right)\left(2 l^2-2 r^2-8 r R-9 R^2\right)\right)\right)\right\}$$

{X13, FERMAT POINT, X24, PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE,

$$-\frac{1}{3\left(l^2+2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)\left(l^2-r^2-4\,r\,R-5\,R^2\right)^2}$$
$$\left(4\sqrt{3}\,l^7\,r+8\,l^6\,r^2-12\sqrt{3}\,l^5\,r^3-16\,l^4\,r^4+12\sqrt{3}\,l^3\,r^5+8\,l^2\,r^6-4\sqrt{3}\,l\,r^7-\right.$$
$$48\sqrt{3}\,l^5\,r^2\,R-64\,l^4\,r^3\,R+96\sqrt{3}\,l^3\,r^4\,R+64\,l^2\,r^5\,R-48\sqrt{3}\,l\,r^6\,R-42\sqrt{3}\,l^5\,r\,R^2-$$
$$68\,l^4\,r^2\,R^2+276\sqrt{3}\,l^3\,r^3\,R^2+196\,l^2\,r^4\,R^2-234\sqrt{3}\,l\,r^5\,R^2+336\sqrt{3}\,l^3\,r^2\,R^3+272\,l^2\,r^3\,R^3-$$
$$592\sqrt{3}\,l\,r^4\,R^3+3\,l^4\,R^4+140\sqrt{3}\,l^3\,r\,R^4+134\,l^2\,r^2\,R^4-812\sqrt{3}\,l\,r^3\,R^4+3\,r^4\,R^4-$$
$$\left.24\,l^2\,r\,R^5-560\sqrt{3}\,l\,r^2\,R^5+24\,r^3\,R^5-12\,l^2\,R^6-144\sqrt{3}\,l\,r\,R^6+60\,r^2\,R^6+48\,r\,R^7\right)\}$$

{X13, FERMAT POINT, X25, HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES,

$$-\frac{1}{3\left(l^2+2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)\left(l^2-r^2-4\,r\,R-6\,R^2\right)^2}$$
$$\left(4\sqrt{3}\,l^7\,r+8\,l^6\,r^2-12\sqrt{3}\,l^5\,r^3-16\,l^4\,r^4+12\sqrt{3}\,l^3\,r^5+8\,l^2\,r^6-4\sqrt{3}\,l\,r^7-\right.$$
$$48\sqrt{3}\,l^5\,r^2\,R-64\,l^4\,r^3\,R+96\sqrt{3}\,l^3\,r^4\,R+64\,l^2\,r^5\,R-48\sqrt{3}\,l\,r^6\,R+3\,l^6\,R^2-34\sqrt{3}\,l^5\,r\,R^2-$$
$$81\,l^4\,r^2\,R^2+260\sqrt{3}\,l^3\,r^3\,R^2+209\,l^2\,r^4\,R^2-226\sqrt{3}\,l\,r^5\,R^2-3\,r^6\,R^2-36\,l^4\,r\,R^3+$$
$$272\sqrt{3}\,l^3\,r^2\,R^3+360\,l^2\,r^3\,R^3-528\sqrt{3}\,l\,r^4\,R^3-36\,r^5\,R^3-12\,l^4\,R^4+72\sqrt{3}\,l^3\,r\,R^4+$$
$$\left.312\,l^2\,r^2\,R^4-616\sqrt{3}\,l\,r^3\,R^4-156\,r^4\,R^4+96\,l^2\,r\,R^5-288\sqrt{3}\,l\,r^2\,R^5-288\,r^3\,R^5-192\,r^2\,R^6\right)\}$$

{X13, FERMAT POINT, X26, CIRCUMCENTER OF THE TANGENTIAL TRIANGLE,

$$-\frac{1}{3\,(l-r-2\,R)^2\,(l+r+2\,R)^2\left(l^2+2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)}$$
$$\left(4\sqrt{3}\,l^7\,r+8\,l^6\,r^2-12\sqrt{3}\,l^5\,r^3-16\,l^4\,r^4+12\sqrt{3}\,l^3\,r^5+8\,l^2\,r^6-4\sqrt{3}\,l\,r^7-48\sqrt{3}\,l^5\,r^2\,R-\right.$$
$$64\,l^4\,r^3\,R+96\sqrt{3}\,l^3\,r^4\,R+64\,l^2\,r^5\,R-48\sqrt{3}\,l\,r^6\,R-34\sqrt{3}\,l^5\,r\,R^2-52\,l^4\,r^2\,R^2+260\sqrt{3}\,l^3\,r^3\,R^2+$$
$$180\,l^2\,r^4\,R^2-226\sqrt{3}\,l\,r^5\,R^2+272\sqrt{3}\,l^3\,r^2\,R^3+208\,l^2\,r^3\,R^3-528\sqrt{3}\,l\,r^4\,R^3+84\sqrt{3}\,l^3\,r\,R^4+$$
$$\left.80\,l^2\,r^2\,R^4-628\sqrt{3}\,l\,r^3\,R^4-336\sqrt{3}\,l\,r^2\,R^5-3\,l^2\,R^6-54\sqrt{3}\,l\,r\,R^6+3\,r^2\,R^6+12\,r\,R^7\right)\}$$

{X13, FERMAT POINT, X27, CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER,

$$-\left(\left(3\left(9\,l^8+32\sqrt{3}\,l^7\,r+8\,l^6\,r^2-64\sqrt{3}\,l^5\,r^3-78\,l^4\,r^4+32\sqrt{3}\,l^3\,r^5+48\,l^2\,r^6-\right.\right.\right.$$
$$3\,r^8-48\,l^6\,r\,R-256\sqrt{3}\,l^5\,r^2\,R-336\,l^4\,r^3\,R+256\sqrt{3}\,l^3\,r^4\,R+432\,l^2\,r^5\,R-$$
$$48\,r^7\,R-24\,l^6\,R^2-272\sqrt{3}\,l^5\,r\,R^2-408\,l^4\,r^2\,R^2+784\sqrt{3}\,l^3\,r^3\,R^2+1512\,l^2\,r^4\,R^2-$$
$$312\,r^6\,R^2-96\,l^4\,r\,R^3+1088\sqrt{3}\,l^3\,r^2\,R^3+2496\,l^2\,r^3\,R^3-1056\,r^5\,R^3-48\,l^4\,R^4+$$
$$\left.\left.576\sqrt{3}\,l^3\,r\,R^4+1824\,l^2\,r^2\,R^4-1968\,r^4\,R^4+384\,l^2\,r\,R^5-1920\,r^3\,R^5-768\,r^2\,R^6\right)\right)\Big/$$
$$\left.\left.\left(\sqrt{3}\,l-3\,r-6\,R\right)^2\left(\sqrt{3}\,l+3\,r+6\,R\right)^2\left(l^2+2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)\right)\right)\}$$

{X13, FERMAT POINT, X28, CEVAPOINT OF X(19) AND X(25),

$$-\frac{1}{3\left(l^2+2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)\left(l^2-r^2-5\,r\,R-6\,R^2\right)^2}$$
$$\left(4\sqrt{3}\,l^7\,r+8\,l^6\,r^2-12\sqrt{3}\,l^5\,r^3-16\,l^4\,r^4+12\sqrt{3}\,l^3\,r^5+8\,l^2\,r^6-4\sqrt{3}\,l\,r^7+3\,l^6\,r\,R-\right.$$
$$40\sqrt{3}\,l^5\,r^2\,R-77\,l^4\,r^3\,R+80\sqrt{3}\,l^3\,r^4\,R+77\,l^2\,r^5\,R-40\sqrt{3}\,l\,r^6\,R-3\,r^7\,R+3\,l^6\,R^2-$$
$$34\sqrt{3}\,l^5\,r\,R^2-114\,l^4\,r^2\,R^2+196\sqrt{3}\,l^3\,r^3\,R^2+287\,l^2\,r^4\,R^2-162\sqrt{3}\,l\,r^5\,R^2-36\,r^6\,R^2-$$
$$48\,l^4\,r\,R^3+204\sqrt{3}\,l^3\,r^2\,R^3+504\,l^2\,r^3\,R^3-332\sqrt{3}\,l\,r^4\,R^3-168\,r^5\,R^3-12\,l^4\,R^4+72\sqrt{3}\,l^3\,r\,R^4+$$
$$\left.396\,l^2\,r^2\,R^4-344\sqrt{3}\,l\,r^3\,R^4-384\,r^4\,R^4+96\,l^2\,r\,R^5-144\sqrt{3}\,l\,r^2\,R^5-432\,r^3\,R^5-192\,r^2\,R^6\right)\}$$

$$\left\{X13,\ \text{FERMAT POINT},\ X29,\ \text{CEVAPOINT OF INCENTER AND ORTHOCENTER},\right.$$

$$\frac{1}{3\left(l^2+2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)\left(3\,l^2-r^2-8\,r\,R-12\,R^2\right)^2}$$

$$\left(3\,l^8-48\,l^6\,r^2+32\sqrt{3}\,l^5\,r^3+78\,l^4\,r^4-64\sqrt{3}\,l^3\,r^5-8\,l^2\,r^6+32\sqrt{3}\,l\,r^7-9\,r^8-48\,l^6\,r\,R+\right.$$
$$64\sqrt{3}\,l^5\,r^2\,R+384\,l^4\,r^3\,R-384\sqrt{3}\,l^3\,r^4\,R-176\,l^2\,r^5\,R+320\sqrt{3}\,l\,r^6\,R-96\,r^7\,R-24\,l^6\,R^2+$$
$$600\,l^4\,r^2\,R^2-784\sqrt{3}\,l^3\,r^3\,R^2-920\,l^2\,r^4\,R^2+1296\sqrt{3}\,l\,r^5\,R^2-360\,r^6\,R^2+288\,l^4\,r\,R^3-$$
$$544\sqrt{3}\,l^3\,r^2\,R^3-1920\,l^2\,r^3\,R^3+2656\sqrt{3}\,l\,r^4\,R^3-480\,r^5\,R^3+48\,l^4\,R^4-1632\,l^2\,r^2\,R^4+$$
$$\left.\left.2752\sqrt{3}\,l\,r^3\,R^4+240\,r^4\,R^4-384\,l^2\,r\,R^5+1152\sqrt{3}\,l\,r^2\,R^5+1152\,r^3\,R^5+768\,r^2\,R^6\right)\right\}$$

$$\{X13,\ \text{FERMAT POINT},\ X30,\ \text{EulerInfinityPoint},\ \infty\}$$

$$\left\{X13,\ \text{FERMAT POINT},\ X31,\ \text{SecondPowerPoint},\right.$$
$$\left(4\,r^2\left(-2\,l^6+6\sqrt{3}\,l^5\,r+12\,l^4\,r^2-20\sqrt{3}\,l^3\,r^3-18\,l^2\,r^4+6\sqrt{3}\,l\,r^5+24\,l^4\,r\,R-48\sqrt{3}\,l^3\,r^2\,R-\right.\right.$$
$$72\,l^2\,r^3\,R+48\sqrt{3}\,l\,r^4\,R+9\,l^4\,R^2-22\sqrt{3}\,l^3\,r\,R^2-108\,l^2\,r^2\,R^2+114\sqrt{3}\,l\,r^3\,R^2+3\,r^4\,R^2-$$
$$\left.\left.72\,l^2\,r\,R^3+72\sqrt{3}\,l\,r^2\,R^3+24\,r^3\,R^3+48\,r^2\,R^4\right)\right)\Big/\left(3\left(l^2-3\,r^2-6\,r\,R\right)^2\left(l^2+2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)\right)\Big\}$$

$$\left\{X13,\ \text{FERMAT POINT},\ X32,\ \text{ThirdPowerPoint},\right.$$
$$-\left(\left(4\,l^2\,r^2\left(2\,l^8-8\sqrt{3}\,l^7\,r-24\,l^6\,r^2+56\sqrt{3}\,l^5\,r^3+76\,l^4\,r^4-56\sqrt{3}\,l^3\,r^5-24\,l^2\,r^6+\right.\right.\right.$$
$$8\sqrt{3}\,l\,r^7+2\,r^8-32\,l^6\,r\,R+96\sqrt{3}\,l^5\,r^2\,R+224\,l^4\,r^3\,R-320\sqrt{3}\,l^3\,r^4\,R-224\,l^2\,r^5\,R+$$
$$96\sqrt{3}\,l\,r^6\,R+32\,r^7\,R-9\,l^6\,R^2+30\sqrt{3}\,l^5\,r\,R^2+279\,l^4\,r^2\,R^2-516\sqrt{3}\,l^3\,r^3\,R^2-$$
$$727\,l^2\,r^4\,R^2+414\sqrt{3}\,l\,r^5\,R^2+201\,r^6\,R^2+108\,l^4\,r\,R^3-240\sqrt{3}\,l^3\,r^2\,R^3-968\,l^2\,r^3\,R^3+$$
$$\left.\left.752\sqrt{3}\,l\,r^4\,R^3+620\,r^5\,R^3-432\,l^2\,r^2\,R^4+480\sqrt{3}\,l\,r^3\,R^4+944\,r^4\,R^4+576\,r^3\,R^5\right)\right)\Big/$$
$$\left.\left.\left(3\left(l^2-2\,l\,r-r^2-4\,r\,R\right)^2\left(l^2+2\,l\,r-r^2-4\,r\,R\right)^2\left(l^2+2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)\right)\right)\right\}$$

$$\left\{X13,\ \text{FERMAT POINT},\ X33,\ \text{PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES},\right.$$

$$\frac{1}{3\left(l^2+2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)\left(l^2-r^2-2\,r\,R-4\,R^2\right)^2}$$

$$4\,r^2\left(-2\,l^6+2\sqrt{3}\,l^5\,r+4\,l^4\,r^2-4\sqrt{3}\,l^3\,r^3-2\,l^2\,r^4+2\sqrt{3}\,l\,r^5+2\sqrt{3}\,l^5\,R+\right.$$
$$14\,l^4\,r\,R-22\sqrt{3}\,l^3\,r^2\,R-14\,l^2\,r^3\,R+20\sqrt{3}\,l\,r^4\,R+25\,l^4\,R^2-34\sqrt{3}\,l^3\,r\,R^2-$$
$$48\,l^2\,r^2\,R^2+74\sqrt{3}\,l\,r^3\,R^2+3\,r^4\,R^2-16\sqrt{3}\,l^3\,R^3-116\,l^2\,r\,R^3+128\sqrt{3}\,l\,r^2\,R^3+$$
$$\left.36\,r^3\,R^3-116\,l^2\,R^4+104\sqrt{3}\,l\,r\,R^4+156\,r^2\,R^4+32\sqrt{3}\,l\,R^5+288\,r\,R^5+192\,R^6\right)\Big\}$$

$$\left\{X13,\ \text{FERMAT POINT},\ X34,\ X(4)\text{-BETH CONJUGATE OF }X(4),\right.$$

$$\frac{1}{3\left(l^2+2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)\left(l^2-r^2-6\,r\,R-4\,R^2\right)^2}$$

$$4\,r^2\left(-2\,l^6+2\sqrt{3}\,l^5\,r+4\,l^4\,r^2-4\sqrt{3}\,l^3\,r^3-2\,l^2\,r^4+2\sqrt{3}\,l\,r^5-4\sqrt{3}\,l^5\,R+\right.$$
$$24\,l^4\,r\,R-6\sqrt{3}\,l^3\,r^2\,R-30\,l^2\,r^3\,R+10\sqrt{3}\,l\,r^4\,R+6\,r^5\,R+25\,l^4\,R^2+18\sqrt{3}\,l^3\,r\,R^2-$$
$$124\,l^2\,r^2\,R^2+6\sqrt{3}\,l\,r^3\,R^2+63\,r^4\,R^2+32\sqrt{3}\,l^3\,R^3-204\,l^2\,r\,R^3-48\sqrt{3}\,l\,r^2\,R^3+$$
$$\left.252\,r^3\,R^3-116\,l^2\,R^4-104\sqrt{3}\,l\,r\,R^4+492\,r^2\,R^4-64\sqrt{3}\,l\,R^5+480\,r\,R^5+192\,R^6\right)\Big\}$$

$$\left\{X13,\ \text{FERMAT POINT},\ X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF }X(36),\right.$$
$$\left(4\,r^2\left(-4\sqrt{3}\,l^3\,r-8\,l^2\,r^2+4\sqrt{3}\,l\,r^3-2\sqrt{3}\,l^3\,R-8\,l^2\,r\,R+22\sqrt{3}\,l\,r^2\,R+4\,l^2\,R^2+\right.\right.$$
$$\left.\left.32\sqrt{3}\,l\,r\,R^2+5\sqrt{3}\,l\,R^3+3\,r\,R^3+12\,R^4\right)\right)\Big/\left(3\,(2\,r+R)^2\left(l^2+2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)\right)\Big\}$$

$$\left\{\text{X13, FERMAT POINT, X36, INVERSE-IN-CIRCUMCIRCLE OF INCENTER},\ \frac{4 r^2 \left(-2 \sqrt{3}\, l^3-4 l^2 r+2 \sqrt{3}\, l r^2+2 l^2 R+6 \sqrt{3}\, l r R+7 \sqrt{3}\, l R^2-3 r R^2-12 R^3\right)}{3 (2 r-R) \left(l^2+2 \sqrt{3}\, l r-r^2-4 r R\right)}\right\}$$

$$\left\{\text{X13, FERMAT POINT, X37, CrosspointOfIncenterAndCentroid},\ -\left(\left(4 l^2 r^2 \left(2 l^4+4 l^2 r^2+2 r^4+2 \sqrt{3}\, l^3 R+4 l^2 r R-10 \sqrt{3}\, l r^2 R+16 r^3 R-21 l^2 R^2-22 \sqrt{3}\, l r R^2+41 r^2 R^2+36 r R^3\right)\right) \Big/ \left(3 \left(l^2+2 \sqrt{3}\, l r-r^2-4 r R\right) \left(l^2+r^2+4 r R\right)^2\right)\right)\right\}$$

$$\left\{\text{X13, FERMAT POINT, X38, CROSSPOINT OF X(1) AND X(75)},\ -\left(\left(4 r^2 \left(2 l^6+2 \sqrt{3}\, l^5 r+4 l^4 r^2+4 \sqrt{3}\, l^3 r^3+2 l^2 r^4+2 \sqrt{3}\, l r^5+2 \sqrt{3}\, l^5 R-26 l^4 r R-24 \sqrt{3}\, l^3 r^2 R+16 l^2 r^3 R+22 \sqrt{3}\, l r^4 R-6 r^5 R-21 l^4 R^2-46 \sqrt{3}\, l^3 r R^2+176 l^2 r^2 R^2+98 \sqrt{3}\, l r^3 R^2-75 r^4 R^2+216 l^2 r R^3+168 \sqrt{3}\, l r^2 R^3-312 r^3 R^3-432 r^2 R^4\right)\right) \Big/ \left(3 \left(l^2+2 \sqrt{3}\, l r-r^2-4 r R\right) \left(l^2+r^2-2 r R\right)^2\right)\right)\right\}$$

$$\left\{\text{X13, FERMAT POINT, X39, BrocardMidpoint},\ -\left(\left(4 l^2 r^2 \left(2 l^8+8 l^6 r^2+12 l^4 r^4+8 l^2 r^6+2 r^8-32 l^6 r R-32 l^4 r^3 R+32 l^2 r^5 R+32 r^7 R-9 l^6 R^2+6 \sqrt{3}\, l^5 r R^2+135 l^4 r^2 R^2-84 \sqrt{3}\, l^3 r^3 R^2-71 l^2 r^4 R^2+6 \sqrt{3}\, l r^5 R^2+201 r^6 R^2+108 l^4 r R^3-48 \sqrt{3}\, l^3 r^2 R^3-392 l^2 r^3 R^3+48 \sqrt{3}\, l r^4 R^3+620 r^5 R^3-432 l^2 r^2 R^4+96 \sqrt{3}\, l r^3 R^4+944 r^4 R^4+576 r^3 R^5\right)\right) \Big/ \left(3 \left(l^2+2 \sqrt{3}\, l r-r^2-4 r R\right) \left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)^2\right)\right)\right\}$$

$$\left\{\text{X13, FERMAT POINT, X40, BEVAN POINT},\ -\frac{4 \left(2 \sqrt{3}\, l^3 r+2 l^2 r^2+3 l^2 r R-3 \sqrt{3}\, l r^2 R-3 l^2 R^2-12 \sqrt{3}\, l r R^2+3 r^2 R^2+12 r R^3\right)}{3 \left(l^2+2 \sqrt{3}\, l r-r^2-4 r R\right)}\right\}$$

$$\left\{\text{X13, FERMAT POINT, X41, X(6)-CEVA CONJUGATE OF X(31)},\ -\left(\left(4 l^2 r^2 \left(6 \sqrt{3}\, l^5 r+18 l^4 r^2-20 \sqrt{3}\, l^3 r^3-12 l^2 r^4+6 \sqrt{3}\, l r^5+2 r^6+4 \sqrt{3}\, l^5 R+24 l^4 r R-88 \sqrt{3}\, l^3 r^2 R-104 l^2 r^3 R+68 \sqrt{3}\, l r^4 R+32 r^5 R+11 l^4 R^2-90 \sqrt{3}\, l^3 r R^2-292 l^2 r^2 R^2+270 \sqrt{3}\, l r^3 R^2+201 r^4 R^2-16 \sqrt{3}\, l^3 R^3-284 l^2 r R^3+432 \sqrt{3}\, l r^2 R^3+620 r^3 R^3-48 l^2 R^4+224 \sqrt{3}\, l r R^4+944 r^2 R^4+576 r R^5\right)\right) \Big/ \left(3 \left(l^2+2 \sqrt{3}\, l r-r^2-4 r R\right) \left(3 l^2 r-r^3+2 l^2 R-8 r^2 R-16 r R^2\right)^2\right)\right)\right\}$$

$$\left\{\text{X13, FERMAT POINT, X42, CROSSPOINT OF INCENTER AND SYMMEDIAN POINT},\ \left(4 r^2 \left(-2 l^6+2 \sqrt{3}\, l^5 r-4 l^4 r^2+4 \sqrt{3}\, l^3 r^3-2 l^2 r^4+2 \sqrt{3}\, l r^5+8 l^4 r R+8 \sqrt{3}\, l^3 r^2 R+8 l^2 r^3 R+8 \sqrt{3}\, l r^4 R+9 l^4 R^2-14 \sqrt{3}\, l^3 r R^2+28 l^2 r^2 R^2-14 \sqrt{3}\, l r^3 R^2+3 r^4 R^2-56 \sqrt{3}\, l r^2 R^3+24 r^3 R^3+48 r^2 R^4\right)\right) \Big/ \left(3 \left(l^2+2 \sqrt{3}\, l r-r^2-4 r R\right) \left(l^2+r^2-2 r R\right)^2\right)\right\}$$

$$\left\{\text{X13, FERMAT POINT, X43, X(6)-CEVA CONJUGATE OF X(1)},\ \left(4 r^2 \left(-2 l^6+2 \sqrt{3}\, l^5 r-4 l^4 r^2+4 \sqrt{3}\, l^3 r^3-2 l^2 r^4+2 \sqrt{3}\, l r^5+\sqrt{3}\, l^5 R+29 l^4 r R+2 \sqrt{3}\, l^3 r^2 R+26 l^2 r^3 R+\sqrt{3}\, l r^4 R-3 r^5 R+12 l^4 R^2-20 \sqrt{3}\, l^3 r R^2-44 l^2 r^2 R^2-52 \sqrt{3}\, l r^3 R^2-24 r^4 R^2-144 l^2 r R^3-96 \sqrt{3}\, l r^2 R^3-48 r^3 R^3\right)\right) \Big/ \left(3 \left(l^2+r^2-8 r R\right)^2 \left(l^2+2 \sqrt{3}\, l r-r^2-4 r R\right)\right)\right\}$$

$$\left\{\text{X13, FERMAT POINT, X44, X(6)-LINE CONJUGATE OF X(1)},\ -\left(\left(4 l^2 r^2 \left(2 l^4-8 \sqrt{3}\, l^3 r-12 l^2 r^2+24 \sqrt{3}\, l r^3+18 r^4-2 \sqrt{3}\, l^3 R-60 l^2 r R+66 \sqrt{3}\, l r^2 R+144 r^3 R-21 l^2 R^2+42 \sqrt{3}\, l r R^2+369 r^2 R^2+324 r R^3\right)\right) \Big/ \left(3 \left(l^2-3 r^2-12 r R\right)^2 \left(l^2+2 \sqrt{3}\, l r-r^2-4 r R\right)\right)\right)\right\}$$

$$\left\{\text{X13, FERMAT POINT, X45, X(9)-BETH CONJUGATE OF X(1)},\right.$$
$$-\left(\left(4 l^2 r^2 \left(2 l^4+4\sqrt{3}\, l^3 r+12 l^2 r^2+12\sqrt{3}\, l r^3+18 r^4+4\sqrt{3}\, l^3 R-12\sqrt{3}\, l r^2 R+144 r^3 R-57 l^2 R^2-78\sqrt{3}\, l r R^2+369 r^2 R^2+324 r R^3\right)\right)\Big/\left(3\left(l^2+2\sqrt{3}\, l r-r^2-4 r R\right)\left(l^2+3 r^2+12 r R\right)^2\right)\right)\Big\}$$

$$\left\{\text{X13, FERMAT POINT, X46, X(4)-CEVA CONJUGATE OF X(1)},\right.$$
$$\left.\frac{4 r^2\left(-2\sqrt{3}\, l^3 r-2 l^2 r^2+2\sqrt{3}\, l^3 R+l^2 r R+\sqrt{3}\, l r^2 R-2 l^2 R^2-7\sqrt{3}\, l R^3+3 r R^3+12 R^4\right)}{3\,(r-R)^2\left(l^2+2\sqrt{3}\, l r-r^2-4 r R\right)}\right\}$$

$$\left\{\text{X13, FERMAT POINT, X47, X(110)-BETH CONJUGATE OF X(34)},\right.$$
$$\frac{1}{3\left(l^2+2\sqrt{3}\, l r-r^2-4 r R\right)\left(l^2-3 r^2-6 r R-2 R^2\right)^2}$$
$$4 r^2\left(-2 l^6+6\sqrt{3}\, l^5 r+12 l^4 r^2-20\sqrt{3}\, l^3 r^3-18 l^2 r^4+6\sqrt{3}\, l r^5+24 l^4 r R-48\sqrt{3}\, l^3 r^2 R-72 l^2 r^3 R+48\sqrt{3}\, l r^4 R+17 l^4 R^2-38\sqrt{3}\, l^3 r R^2-132 l^2 r^2 R^2+130\sqrt{3}\, l r^3 R^2+3 r^4 R^2+2\sqrt{3}\, l^3 R^3-114 l^2 r R^3+138\sqrt{3}\, l r^2 R^3+30 r^3 R^3-44 l^2 R^4+52\sqrt{3}\, l r R^4+96 r^2 R^4-4\sqrt{3}\, l R^5+108 r R^5+48 R^6\right)\Big\}$$

$$\left\{\text{X13, FERMAT POINT, X48, CROSSPOINT OF X(1) AND X(63)},\right.$$
$$-\frac{1}{3\left(l^2+2\sqrt{3}\, l r-r^2-4 r R\right)\left(3 l^2-r^2-6 r R-8 R^2\right)^2}$$
$$4 l^2\left(6\sqrt{3}\, l^5 r+18 l^4 r^2-20\sqrt{3}\, l^3 r^3-12 l^2 r^4+6\sqrt{3}\, l r^5+2 r^6-48\sqrt{3}\, l^3 r^2 R-72 l^2 r^3 R+48\sqrt{3}\, l r^4 R+24 r^5 R+3 l^4 R^2-34\sqrt{3}\, l^3 r R^2-132 l^2 r^2 R^2+134\sqrt{3}\, l r^3 R^2+113 r^4 R^2-48 l^2 r R^3+144\sqrt{3}\, l r^2 R^3+264 r^3 R^3-12 l^2 R^4+40\sqrt{3}\, l r R^4+308 r^2 R^4+144 r R^5\right)\Big\}$$

$$\left\{\text{X13, FERMAT POINT, X49, CENTER OF SINE-TRIPLE-ANGLE CIRCLE},\right.$$
$$-\frac{1}{3\left(l^2+2\sqrt{3}\, l r-r^2-4 r R\right)\left(2 l^2-2 r^2-8 r R-7 R^2\right)^2}$$
$$\left(8\sqrt{3}\, l^7 r+32 l^6 r^2-56\sqrt{3}\, l^5 r^3-64 l^4 r^4+56\sqrt{3}\, l^3 r^5+32 l^2 r^6-8\sqrt{3}\, l r^7-96\sqrt{3}\, l^5 r^2 R-256 l^4 r^3 R+320\sqrt{3}\, l^3 r^4 R+256 l^2 r^5 R-96\sqrt{3}\, l r^6 R+3 l^6 R^2-62\sqrt{3}\, l^5 r R^2-317 l^4 r^2 R^2+644\sqrt{3}\, l^3 r^3 R^2+829 l^2 r^4 R^2-446\sqrt{3}\, l r^5 R^2-3 r^6 R^2-36 l^4 r R^3+496\sqrt{3}\, l^3 r^2 R^3+1304 l^2 r^3 R^3-1008\sqrt{3}\, l r^4 R^3-36 r^5 R^3-12 l^4 R^4+140\sqrt{3}\, l^3 r R^4+896 l^2 r^2 R^4-1132\sqrt{3}\, l r^3 R^4-156 r^4 R^4+96 l^2 r R^5-560\sqrt{3}\, l r^2 R^5-288 r^3 R^5-3 l^2 R^6-90\sqrt{3}\, l r R^6-189 r^2 R^6+12 r R^7\right)\Big\}$$

$$\left\{\text{X13, FERMAT POINT, X50, X(74)-CEVA CONJUGATE OF X(184)},\right.$$
$$-\left(\left(4 l^2 r^2\left(2 l^8-8\sqrt{3}\, l^7 r-24 l^6 r^2+56\sqrt{3}\, l^5 r^3+76 l^4 r^4-56\sqrt{3}\, l^3 r^5-24 l^2 r^6+8\sqrt{3}\, l r^7+2 r^8-32 l^6 r R+96\sqrt{3}\, l^5 r^2 R+224 l^4 r^3 R-320\sqrt{3}\, l^3 r^4 R-224 l^2 r^5 R+96\sqrt{3}\, l r^6 R+32 r^7 R-21 l^6 R^2+66\sqrt{3}\, l^5 r R^2+363 l^4 r^2 R^2-636\sqrt{3}\, l^3 r^3 R^2-811 l^2 r^4 R^2+450\sqrt{3}\, l r^5 R^2+213 r^6 R^2+252 l^4 r R^3-528\sqrt{3}\, l^3 r^2 R^3-1448 l^2 r^3 R^3+1040\sqrt{3}\, l r^4 R^3+764 r^5 R^3+72 l^4 R^4-180\sqrt{3}\, l^3 r R^4-1368 l^2 r^2 R^4+1236\sqrt{3}\, l r^3 R^4+1592 r^4 R^4-576 l^2 r R^5+720\sqrt{3}\, l r^2 R^5+1920 r^3 R^5-81 l^2 R^6+162\sqrt{3}\, l r R^6+1233 r^2 R^6+324 r R^7\right)\right)\Big/\left(3\left(l^2+2\sqrt{3}\, l r-r^2-4 r R\right)\left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-3 l^2 R^2+19 r^2 R^2+12 r R^3\right)^2\right)\right)\Big\}$$

$$\left\{\text{X13, FERMAT POINT, X51, CENTROID OF ORTHIC TRIANGLE},\right.$$
$$-\left(\left(\left(-l^2+2\sqrt{3}\, l r+r^2+4 r R\right)\left(l^4-4\sqrt{3}\, l^3 r-6 l^2 r^2+4\sqrt{3}\, l r^3+r^4-8 l^2 r R+16\sqrt{3}\, l r^2 R+8 r^3 R-4 l^2 R^2+16\sqrt{3}\, l r R^2+20 r^2 R^2+16 r R^3\right)\right)\Big/\left(36 R^2\left(-l^2-2\sqrt{3}\, l r+r^2+4 r R\right)\right)\right)\Big\}$$

$$\left\{\text{X13, FERMAT POINT, X52, ORTHOCENTER OF ORTHIC TRIANGLE, } -\frac{1}{12 R^2 \left(l^2+2\sqrt{3}\, l r-r^2-4 r R\right)}\right.$$
$$\left(-3 l^6-14\sqrt{3}\, l^5 r+45 l^4 r^2+68\sqrt{3}\, l^3 r^3-45 l^2 r^4-14\sqrt{3}\, l r^5+3 r^6+36 l^4 r R+112\sqrt{3}\, l^3 r^2 R-\right.$$
$$216 l^2 r^3 R-112\sqrt{3}\, l r^4 R+36 r^5 R+12 l^4 R^2+64\sqrt{3}\, l^3 r R^2-280 l^2 r^2 R^2-288\sqrt{3}\, l r^3 R^2+$$
$$\left.\left.156 r^4 R^2-96 l^2 r R^3-256\sqrt{3}\, l r^2 R^3+288 r^3 R^3-12 l^2 R^4-72\sqrt{3}\, l r R^4+204 r^2 R^4+48 r R^5\right)\right\}$$

$$\left\{\text{X13, FERMAT POINT, X53, SYMMEDIAN POINT OF ORTHIC TRIANGLE,}\right.$$
$$-\left(\left(4 l^2 r^2 \left(2 l^8+2\sqrt{3}\, l^7 r-12 l^6 r^2-14\sqrt{3}\, l^5 r^3+4 l^4 r^4+14\sqrt{3}\, l^3 r^5-12 l^2 r^6-2\sqrt{3}\, l r^7+2 r^8-\right.\right.\right.$$
$$32 l^6 r R-24\sqrt{3}\, l^5 r^2 R+128 l^4 r^3 R+80\sqrt{3}\, l^3 r^4 R-128 l^2 r^5 R-24\sqrt{3}\, l r^6 R+32 r^7 R-$$
$$25 l^6 R^2+2\sqrt{3}\, l^5 r R^2+355 l^4 r^2 R^2+124\sqrt{3}\, l^3 r^3 R^2-611 l^2 r^4 R^2-94\sqrt{3}\, l r^5 R^2+$$
$$217 r^6 R^2+300 l^4 r R^3-16\sqrt{3}\, l^3 r^2 R^3-1464 l^2 r^3 R^3-112\sqrt{3}\, l r^4 R^3+812 r^5 R^3+$$
$$104 l^4 R^4-112\sqrt{3}\, l^3 r R^4-1696 l^2 r^2 R^4+144\sqrt{3}\, l r^3 R^4+1816 r^4 R^4-832 l^2 r R^5+$$
$$\left.\left.\left.448\sqrt{3}\, l r^2 R^5+2432 r^3 R^5-144 l^2 R^6+288\sqrt{3}\, l r R^6+1808 r^2 R^6+576 r R^7\right)\right)\Big/$$
$$\left.\left.\left(3\left(l^2+2\sqrt{3}\, l r-r^2-4 r R\right)\left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-4 l^2 R^2+20 r^2 R^2+16 r R^3\right)^2\right)\right)\right\}$$

$$\left\{\text{X13, FERMAT POINT, X54, KosnitaPoint, } -\frac{1}{3\left(l^2+2\sqrt{3}\, l r-r^2-4 r R\right)\left(2 l^2-2 r^2-8 r R-5 R^2\right)^2}\right.$$
$$\left(8\sqrt{3}\, l^7 r+32 l^6 r^2-56\sqrt{3}\, l^5 r^3-64 l^4 r^4+56\sqrt{3}\, l^3 r^5+32 l^2 r^6-8\sqrt{3}\, l r^7-\right.$$
$$96\sqrt{3}\, l^5 r^2 R-256 l^4 r^3 R+320\sqrt{3}\, l^3 r^4 R+256 l^2 r^5 R-96\sqrt{3}\, l r^6 R-64\sqrt{3}\, l^5 r R^2-$$
$$256 l^4 r^2 R^2+640\sqrt{3}\, l^3 r^3 R^2+768 l^2 r^4 R^2-448\sqrt{3}\, l r^5 R^2+512\sqrt{3}\, l^3 r^2 R^3+1024 l^2 r^3 R^3-$$
$$1024\sqrt{3}\, l r^4 R^3+3 l^4 R^4+164\sqrt{3}\, l^3 r R^4+494 l^2 r^2 R^4-1188\sqrt{3}\, l r^3 R^4+3 r^4 R^4-$$
$$\left.\left.24 l^2 r R^5-656\sqrt{3}\, l r^2 R^5+24 r^3 R^5-12 l^2 R^6-144\sqrt{3}\, l r R^6+60 r^2 R^6+48 r R^7\right)\right\}$$

$$\left\{\text{X13, FERMAT POINT, X55, INSIMILICENTER(CIRCUMCIRCLE, INCIRCLE),}\right.$$
$$\left.\frac{r^2\left(-\sqrt{3}\, l+r+4 R\right)\left(4 l^2 r+4\sqrt{3}\, l r^2+4 l^2 R+12\sqrt{3}\, l r R+5\sqrt{3}\, l R^2+3 r R^2+12 R^3\right)}{3 (r+R)^2\left(l^2+2\sqrt{3}\, l r-r^2-4 r R\right)}\right\}$$

$$\left\{\text{X13, FERMAT POINT, X56, EXSIMILICENTER(CIRCUMCIRCLE, INCIRCLE),}\right.$$
$$\left(r^2\left(-4\sqrt{3}\, l^3 r-8 l^2 r^2+4\sqrt{3}\, l r^3+4\sqrt{3}\, l^3 R+16 l^2 r R+4\sqrt{3}\, l r^2 R-11 l^2 R^2+2\sqrt{3}\, l r R^2-\right.\right.$$
$$\left.\left.\left.9 r^2 R^2-16\sqrt{3}\, l R^3-24 r R^3+48 R^4\right)\right)\Big/\left(3 (r-R)^2\left(l^2+2\sqrt{3}\, l r-r^2-4 r R\right)\right)\right\}$$

$$\left\{\text{X13, FERMAT POINT, X57, ISOGONAL CONJUGATE OF X(9),}\right.$$
$$\left(4 r^2\left(-2\sqrt{3}\, l^3 r-2 l^2 r^2+4\sqrt{3}\, l^3 R+5 l^2 r R-\sqrt{3}\, l r^2 R-11 l^2 R^2-8\sqrt{3}\, l r R^2+\right.\right.$$
$$\left.\left.\left.3 r^2 R^2-16\sqrt{3}\, l R^3+24 r R^3+48 R^4\right)\right)\Big/\left(3 (r-2 R)^2\left(l^2+2\sqrt{3}\, l r-r^2-4 r R\right)\right)\right\}$$

$$\left\{\text{X13, FERMAT POINT, X58, ISOGONAL CONJUGATE OF X(10),}\right.$$
$$\left(4 r^2\left(-2 l^6+6\sqrt{3}\, l^5 r+12 l^4 r^2-20\sqrt{3}\, l^3 r^3-18 l^2 r^4+6\sqrt{3}\, l r^5+16 l^4 r R-32\sqrt{3}\, l^3 r^2 R-\right.\right.$$
$$48 l^2 r^3 R+32\sqrt{3}\, l r^4 R+9 l^4 R^2-24\sqrt{3}\, l^3 r R^2-74 l^2 r^2 R^2+56\sqrt{3}\, l r^3 R^2-3 r^4 R^2-$$
$$\left.\left.\left.36 l^2 r R^3+24\sqrt{3}\, l r^2 R^3-12 r^3 R^3\right)\right)\Big/\left(3\left(l^2-3 r^2-4 r R\right)^2\left(l^2+2\sqrt{3}\, l r-r^2-4 r R\right)\right)\right\}$$

$$\left\{\text{X13, FERMAT POINT, X59, ISOGONAL CONJUGATE OF X(11),}\right.$$
$$\frac{1}{3 (2 r-R)\left(l^2+2\sqrt{3}\, l r-r^2-4 r R\right)\left(l^2-r^2-5 r R-4 R^2\right)^2} r^2\left(\sqrt{3}\, l+r+4 R\right)$$
$$\left(-4 l^6-4\sqrt{3}\, l^5 r+32 l^4 r^2-28 l^2 r^4+4\sqrt{3}\, l r^5+8\sqrt{3}\, l^5 R+52 l^4 r R-12\sqrt{3}\, l^3 r^2 R-172 l^2 r^3 R+\right.$$
$$44\sqrt{3}\, l r^4 R+14 l^4 R^2-42\sqrt{3}\, l^3 r R^2-306 l^2 r^2 R^2+166\sqrt{3}\, l r^3 R^2-57\sqrt{3}\, l^3 R^3-91 l^2 r R^3+$$
$$\left.\left.247\sqrt{3}\, l r^2 R^3-3 r^3 R^3+44 l^2 R^4+152\sqrt{3}\, l r R^4-36 r^2 R^4+112\sqrt{3}\, l R^5-144 r R^5-192 R^6\right)\right\}$$

$$\left\{\text{X13, FERMAT POINT, X60, ISOGONAL CONJUGATE OF X(12)},\right.$$
$$\left(r^2\left(-8\sqrt{3}\,l^7 r-32 l^6 r^2+56\sqrt{3}\,l^5 r^3+64 l^4 r^4-56\sqrt{3}\,l^3 r^5-32 l^2 r^6+8\sqrt{3}\,l r^7-4\sqrt{3}\,l^7 R-\right.\right.$$
$$32 l^6 r R+132\sqrt{3}\,l^5 r^2 R+256 l^4 r^3 R-300\sqrt{3}\,l^3 r^4 R-224 l^2 r^5 R+76\sqrt{3}\,l r^6 R-8 l^6 R^2+$$
$$96\sqrt{3}\,l^5 r R^2+432 l^4 r^2 R^2-640\sqrt{3}\,l^3 r^3 R^2-712 l^2 r^4 R^2+288\sqrt{3}\,l r^5 R^2+14\sqrt{3}\,l^5 R^3+$$
$$262 l^4 r R^3-596\sqrt{3}\,l^3 r^2 R^3-1204 l^2 r^3 R^3+542\sqrt{3}\,l r^4 R^3+6 r^5 R^3+39 l^4 R^4-196\sqrt{3}\,l^3 r R^4-$$
$$\left.\left.1082 l^2 r^2 R^4+516\sqrt{3}\,l r^3 R^4+39 r^4 R^4-384 l^2 r R^5+200\sqrt{3}\,l r^2 R^5+72 r^3 R^5+48 r^2 R^6\right)\right)\Big/$$
$$\left.\left(3\left(l^2+2\sqrt{3}\,l r-r^2-4 r R\right)\left(2 l^2 r-2 r^3+l^2 R-7 r^2 R-7 r R^2\right)^2\right)\right\}$$

$$\left\{\text{X13, FERMAT POINT, X61, ISOGONAL CONJUGATE OF X(17)},\right.$$
$$\left.-\frac{16 l^2 r^2\left(3 l^4-10 l^2 r^2+3 r^4-24 l^2 r R+24 r^3 R-12 l^2 R^2+60 r^2 R^2+48 r R^3\right)}{\left(3 l^2+2\sqrt{3}\,l r-3 r^2-12 r R\right)^2\left(l^2+2\sqrt{3}\,l r-r^2-4 r R\right)}\right\}$$

$$\left\{\text{X13, FERMAT POINT, X62, ISOGONAL CONJUGATE OF X(18)},\right.$$
$$\left.\frac{16 l^2 r^2\left(4\sqrt{3}\,l^3 r-8 l^2 r^2-4\sqrt{3}\,l r^3-16\sqrt{3}\,l r^2 R+3 l^2 R^2-18\sqrt{3}\,l r R^2-3 r^2 R^2-12 r R^3\right)}{\left(3 l^2-2\sqrt{3}\,l r-3 r^2-12 r R\right)^2\left(l^2+2\sqrt{3}\,l r-r^2-4 r R\right)}\right\}$$

$$\left\{\text{X13, FERMAT POINT, X63, ISOGONAL CONJUGATE OF X(19)},\right.$$
$$\left(-8\sqrt{3}\,l^3 r^3-8 l^2 r^4+6 l^4 r R+2\sqrt{3}\,l^3 r^2 R-22 l^2 r^3 R-2\sqrt{3}\,l r^4 R+3 l^4 R^2+4\sqrt{3}\,l^3 r R^2-\right.$$
$$\left.62 l^2 r^2 R^2-16\sqrt{3}\,l r^3 R^2+3 r^4 R^2-48 l^2 r R^3-32\sqrt{3}\,l r^2 R^3+24 r^3 R^3+48 r^2 R^4\right)\Big/$$
$$\left.\left(3(r+R)^2\left(l^2+2\sqrt{3}\,l r-r^2-4 r R\right)\right)\right\}$$

$$\left\{\text{X13, FERMAT POINT, X64, ISOGONAL CONJUGATE OF X(20)},\right.$$
$$-\frac{1}{3(l-r-2R)^2(l+r+2R)^2\left(l^2+2\sqrt{3}\,l r-r^2-4 r R\right)}$$
$$4\left(2\sqrt{3}\,l^7 r+2 l^6 r^2-2\sqrt{3}\,l^5 r^3-4 l^4 r^4+2\sqrt{3}\,l^3 r^5+2 l^2 r^6-2\sqrt{3}\,l r^7-24\sqrt{3}\,l^5 r^2 R-\right.$$
$$16 l^4 r^3 R+32\sqrt{3}\,l^3 r^4 R+16 l^2 r^5 R-24\sqrt{3}\,l r^6 R-9 l^6 R^2-46\sqrt{3}\,l^5 r R^2+14 l^4 r^2 R^2+$$
$$166\sqrt{3}\,l^3 r^3 R^2+18 l^2 r^4 R^2-142\sqrt{3}\,l r^5 R^2+9 r^6 R^2+108 l^4 r R^3+368\sqrt{3}\,l^3 r^2 R^3-164 l^2 r^3 R^3-$$
$$496\sqrt{3}\,l r^4 R^3+108 r^5 R^3+84 l^4 R^4+296\sqrt{3}\,l^3 r R^4-592 l^2 r^2 R^4-1032\sqrt{3}\,l r^3 R^4+516 r^4 R^4-$$
$$\left.672 l^2 r R^5-1184\sqrt{3}\,l r^2 R^5+1248 r^3 R^5-192 l^2 R^6-576\sqrt{3}\,l r R^6+1536 r^2 R^6+768 r R^7\right)\Big\}$$

$$\left\{\text{X13, FERMAT POINT, X65, ORTHOCENTER OF THE INTOUCH TRIANGLE},\right.$$
$$\left.\frac{r^2\left(4\sqrt{3}\,l^3-6 l^2 r-8\sqrt{3}\,l r^2+6 r^3-11 l^2 R-18\sqrt{3}\,l r R+39 r^2 R-16\sqrt{3}\,l R^2+72 r R^2+48 R^3\right)}{3 R\left(l^2+2\sqrt{3}\,l r-r^2-4 r R\right)}\right\}$$

$$\Big\{\text{X13, FERMAT POINT, X66, ISOGONAL CONJUGATE OF X(22)},$$

$$\Big(2\sqrt{3}\,l^{11} r + 16 l^{10} r^2 - 2\sqrt{3}\,l^9 r^3 - 64 l^8 r^4 - 4\sqrt{3}\,l^7 r^5 + 96 l^6 r^6 + 4\sqrt{3}\,l^5 r^7 - 64 l^4 r^8 + 2\sqrt{3}\,l^3 r^9 +$$
$$16 l^2 r^{10} - 2\sqrt{3}\,l\, r^{11} - 40\sqrt{3}\,l^9 r^2 R - 256 l^8 r^3 R + 64\sqrt{3}\,l^7 r^4 R + 768 l^6 r^5 R - 48\sqrt{3}\,l^5 r^6 R -$$
$$768 l^4 r^7 R + 64\sqrt{3}\,l^3 r^8 R + 256 l^2 r^9 R - 40\sqrt{3}\,l\, r^{10} R - 3 l^{10} R^2 - 22\sqrt{3}\,l^9 r R^2 - 149 l^8 r^2 R^2 +$$
$$336\sqrt{3}\,l^7 r^3 R^2 + 1998 l^6 r^4 R^2 - 564\sqrt{3}\,l^5 r^5 R^2 - 3534 l^4 r^6 R^2 + 592\sqrt{3}\,l^3 r^7 R^2 + 1685 l^2 r^8 R^2 -$$
$$342\sqrt{3}\,l\, r^9 R^2 + 3 r^{10} R^2 + 60 l^8 r R^3 + 352\sqrt{3}\,l^7 r^2 R^3 + 1728 l^6 r^3 R^3 - 1760\sqrt{3}\,l^5 r^4 R^3 -$$
$$7672 l^4 r^5 R^3 + 2528\sqrt{3}\,l^3 r^6 R^3 + 5824 l^2 r^7 R^3 - 1632\sqrt{3}\,l\, r^8 R^3 + 60 r^9 R^3 + 12 l^8 R^4 +$$
$$56\sqrt{3}\,l^7 r R^4 + 64 l^6 r^2 R^4 - 2024\sqrt{3}\,l^5 r^3 R^4 - 7544 l^4 r^4 R^4 + 5544\sqrt{3}\,l^3 r^5 R^4 + 11\,072 l^2 r^6 R^4 -$$
$$4728\sqrt{3}\,l\, r^7 R^4 + 492 r^8 R^4 - 192 l^6 r R^5 - 672\sqrt{3}\,l^5 r^2 R^5 - 2240 l^4 r^3 R^5 + 5952\sqrt{3}\,l^3 r^4 R^5 +$$
$$10\,816 l^2 r^5 R^5 - 8352\sqrt{3}\,l\, r^6 R^5 + 2112 r^7 R^5 + 432 l^4 r^2 R^6 + 2400\sqrt{3}\,l^3 r^3 R^6 + 4048 l^2 r^4 R^6 -$$
$$8320\sqrt{3}\,l\, r^5 R^6 + 4992 r^6 R^6 - 192 l^2 r^3 R^7 - 3584\sqrt{3}\,l\, r^4 R^7 + 6144 r^5 R^7 + 3072 r^4 R^8\Big) \Big/$$
$$\Big(3\,(l - r - 2R)^2\,(l + r + 2R)^2\,\left(l^2 - r^2 - 4 r R\right)^2\left(l^2 + 2\sqrt{3}\,l\, r - r^2 - 4 r R\right)\Big)\Big\}$$

$$\Big\{\text{X13, FERMAT POINT, X67, ISOGONAL CONJUGATE OF X(23)},$$

$$\Big(3 l^{10} + 6\sqrt{3}\,l^9 r + 29 l^8 r^2 - 102 l^6 r^4 - 12\sqrt{3}\,l^5 r^5 + 102 l^4 r^6 - 29 l^2 r^8 + 6\sqrt{3}\,l\, r^9 - 3 r^{10} - 60 l^8 r R -$$
$$96\sqrt{3}\,l^7 r^2 R - 288 l^6 r^3 R + 96\sqrt{3}\,l^5 r^4 R + 696 l^4 r^5 R - 96\sqrt{3}\,l^3 r^6 R - 288 l^2 r^7 R + 96\sqrt{3}\,l\, r^8 R -$$
$$60 r^9 R - 12 l^8 R^2 - 24\sqrt{3}\,l^7 r R^2 + 96 l^6 r^2 R^2 + 360\sqrt{3}\,l^5 r^3 R^2 + 1464 l^4 r^4 R^2 - 552\sqrt{3}\,l^3 r^5 R^2 -$$
$$1056 l^2 r^6 R^2 + 600\sqrt{3}\,l\, r^7 R^2 - 492 r^8 R^2 + 192 l^6 r R^3 + 288\sqrt{3}\,l^5 r^2 R^3 + 960 l^4 r^3 R^3 -$$
$$960\sqrt{3}\,l^3 r^4 R^3 - 1856 l^2 r^5 R^3 + 1824\sqrt{3}\,l\, r^6 R^3 - 2112 r^7 R^3 - 180 l^4 r^2 R^4 - 504\sqrt{3}\,l^3 r^3 R^4 -$$
$$1740 l^2 r^4 R^4 + 2688\sqrt{3}\,l\, r^5 R^4 - 4992 r^6 R^4 - 816 l^2 r^3 R^5 + 1536\sqrt{3}\,l\, r^4 R^5 - 6144 r^5 R^5 - 3072 r^4 R^6\Big) \Big/$$
$$\Big(3\left(l^2 - r^2 - 4 r R\right)^2\left(l^2 + 2\sqrt{3}\,l\, r - r^2 - 4 r R\right)\left(2 l^2 - 2 r^2 - 8 r R - 9 R^2\right)\Big)\Big\}$$

$$\Big\{\text{X13, FERMAT POINT, X68, PRASOLOV POINT, } \frac{1}{3\,(l - r - 2R)^2\,(l + r + 2R)^2\left(l^2 + 2\sqrt{3}\,l\, r - r^2 - 4 r R\right)}$$

$$\Big(2\sqrt{3}\,l^7 r + 16 l^6 r^2 + 2\sqrt{3}\,l^5 r^3 - 32 l^4 r^4 - 2\sqrt{3}\,l^3 r^5 + 16 l^2 r^6 - 2\sqrt{3}\,l\, r^7 - 24\sqrt{3}\,l^5 r^2 R -$$
$$128 l^4 r^3 R + 16\sqrt{3}\,l^3 r^4 R + 128 l^2 r^5 R - 24\sqrt{3}\,l\, r^6 R + 3 l^6 R^2 - 18\sqrt{3}\,l^5 r R^2 - 149 l^4 r^2 R^2 +$$
$$76\sqrt{3}\,l^3 r^3 R^2 + 405 l^2 r^4 R^2 - 114\sqrt{3}\,l\, r^5 R^2 - 3 r^6 R^2 - 36 l^4 r R^3 + 144\sqrt{3}\,l^3 r^2 R^3 +$$
$$632 l^2 r^3 R^3 - 272\sqrt{3}\,l\, r^4 R^3 - 36 r^5 R^3 - 12 l^4 R^4 + 64\sqrt{3}\,l^3 r R^4 + 424 l^2 r^2 R^4 - 352\sqrt{3}\,l\, r^3 R^4 -$$
$$156 r^4 R^4 + 96 l^2 r R^5 - 256\sqrt{3}\,l\, r^2 R^5 - 288 r^3 R^5 + 12 l^2 R^6 - 72\sqrt{3}\,l\, r R^6 - 204 r^2 R^6 - 48 r R^7\Big)\Big\}$$

$$\Big\{\text{X13, FERMAT POINT, X69, SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},$$

$$\frac{1}{3\left(l^2 - r^2 - 4 r R\right)^2\left(l^2 + 2\sqrt{3}\,l\, r - r^2 - 4 r R\right)}$$

$$\Big(3 l^8 + 4\sqrt{3}\,l^7 r + 16 l^6 r^2 + 4\sqrt{3}\,l^5 r^3 - 38 l^4 r^4 - 4\sqrt{3}\,l^3 r^5 + 16 l^2 r^6 - 4\sqrt{3}\,l\, r^7 + 3 r^8 - 48 l^6 r R -$$
$$48\sqrt{3}\,l^5 r^2 R - 80 l^4 r^3 R + 32\sqrt{3}\,l^3 r^4 R + 80 l^2 r^5 R - 48\sqrt{3}\,l\, r^6 R + 48 r^7 R - 96\sqrt{3}\,l^3 r^3 R^2 +$$
$$160 l^2 r^4 R^2 - 192\sqrt{3}\,l\, r^5 R^2 + 288 r^6 R^2 + 384 l^2 r^3 R^3 - 256\sqrt{3}\,l\, r^4 R^3 + 768 r^5 R^3 + 768 r^4 R^4\Big)\Big\}$$

$$\Big\{\text{X13, FERMAT POINT, X70, ISOGONAL CONJUGATE OF X(26)},$$
$$\Big(2\sqrt{3}\,l^{11}r+16\,l^{10}r^2-2\sqrt{3}\,l^9r^3-64\,l^8r^4-4\sqrt{3}\,l^7r^5+96\,l^6r^6+4\sqrt{3}\,l^5r^7-64\,l^4r^8+$$
$$2\sqrt{3}\,l^3r^9+16\,l^2r^{10}-2\sqrt{3}\,l\,r^{11}-40\sqrt{3}\,l^9r^2R-256\,l^8r^3R+64\sqrt{3}\,l^7r^4R+768\,l^6r^5R-$$
$$48\sqrt{3}\,l^5r^6R-768\,l^4r^7R+64\sqrt{3}\,l^3r^8R+256\,l^2r^9R-40\sqrt{3}\,l\,r^{10}R-28\sqrt{3}\,l^9rR^2-$$
$$216\,l^8r^2R^2+336\sqrt{3}\,l^7r^3R^2+2184\,l^6r^4R^2-552\sqrt{3}\,l^5r^5R^2-3720\,l^4r^6R^2+592\sqrt{3}\,l^3r^7R^2+$$
$$1752\,l^2r^8R^2-348\sqrt{3}\,l\,r^9R^2+448\sqrt{3}\,l^7r^2R^3+2592\,l^6r^3R^3-1856\sqrt{3}\,l^5r^4R^3-9280\,l^4r^5R^3+$$
$$2624\sqrt{3}\,l^3r^6R^3+6688\,l^2r^7R^3-1728\sqrt{3}\,l\,r^8R^3-3\,l^8R^4+142\sqrt{3}\,l^7rR^4+1064\,l^6r^2R^4-$$
$$2722\sqrt{3}\,l^5r^3R^4-12490\,l^4r^4R^4+6434\sqrt{3}\,l^3r^5R^4+15528\,l^2r^6R^4-5390\sqrt{3}\,l\,r^7R^4-$$
$$3\,r^8R^4+48\,l^6rR^5-1704\sqrt{3}\,l^5r^2R^5-8560\,l^4r^3R^5+9008\sqrt{3}\,l^3r^4R^5+22384\,l^2r^5R^5-$$
$$10920\sqrt{3}\,l\,r^6R^5-48\,r^7R^5+18\,l^6R^6-328\sqrt{3}\,l^5rR^6-2454\,l^4r^2R^6+6944\sqrt{3}\,l^3r^3R^6+$$
$$19574\,l^2r^4R^6-14312\sqrt{3}\,l\,r^5R^6-306\,r^6R^6-216\,l^4rR^7+2624\sqrt{3}\,l^3r^2R^7+9648\,l^2r^3R^7-$$
$$11712\sqrt{3}\,l\,r^4R^7-984\,r^5R^7-27\,l^4R^8+356\sqrt{3}\,l^3rR^8+2290\,l^2r^2R^8-5604\sqrt{3}\,l\,r^3R^8-1659\,r^4R^8+$$
$$216\,l^2rR^9-1424\sqrt{3}\,l\,r^2R^9-1368\,r^3R^9+12\,l^2R^{10}-144\sqrt{3}\,l\,rR^{10}-444\,r^2R^{10}-48\,rR^{11}\Big)\Big/$$
$$\Big(3\left(l^2+2\sqrt{3}\,l\,r-r^2-4\,rR\right)\left(l^4-2\,l^2r^2+r^4-8\,l^2rR+8\,r^3R-6\,l^2R^2+22\,r^2R^2+24\,rR^3+7\,R^4\right)^2\Big)\Big\}$$

$$\Big\{\text{X13, FERMAT POINT, X71, ISOGONAL CONJUGATE OF X(27)},$$
$$-\frac{1}{3\left(l^2+2\sqrt{3}\,l\,r-r^2-4\,rR\right)\left(l^2+r^2+6\,rR+8\,R^2\right)^2}$$
$$4\,l^2\Big(2\sqrt{3}\,l^5r+2\,l^4r^2+4\sqrt{3}\,l^3r^3+4\,l^2r^4+2\sqrt{3}\,l\,r^5+2\,r^6+8\sqrt{3}\,l^3r^2R+24\,l^2r^3R+$$
$$8\sqrt{3}\,l\,r^4R+24\,r^5R-9\,l^4R^2-6\sqrt{3}\,l^3rR^2+56\,l^2r^2R^2-6\sqrt{3}\,l\,r^3R^2+113\,r^4R^2+$$
$$48\,l^2rR^3-56\sqrt{3}\,l\,r^2R^3+264\,r^3R^3-12\,l^2R^4-56\sqrt{3}\,l\,rR^4+308\,r^2R^4+144\,rR^5\Big)\Big\}$$

$$\Big\{\text{X13, FERMAT POINT, X72, ISOGONAL CONJUGATE OF X(28)},$$
$$\Big(3\,l^4r+2\sqrt{3}\,l^3r^2-6\,l^2r^3-10\sqrt{3}\,l\,r^4+3\,r^5+3\,l^4R+4\sqrt{3}\,l^3rR-35\,l^2r^2R-42\sqrt{3}\,l\,r^3R+$$
$$24\,r^4R-48\,l^2rR^2-44\sqrt{3}\,l\,r^2R^2+60\,r^3R^2+48\,r^2R^3\Big)\Big/\Big(3R\left(l^2+2\sqrt{3}\,l\,r-r^2-4\,rR\right)\Big)\Big\}$$

$$\Big\{\text{X13, FERMAT POINT, X73, CROSSPOINT OF INCENTER AND CIRCUMCENTER},$$
$$\frac{1}{3\left(l^2+2\sqrt{3}\,l\,r-r^2-4\,rR\right)\left(l^2+r^2-2\,rR-4\,R^2\right)^2}$$
$$4\,r^2\Big(-2\,l^6+2\sqrt{3}\,l^5r-4\,l^4r^2+4\sqrt{3}\,l^3r^3-2\,l^2r^4+2\sqrt{3}\,l\,r^5-4\sqrt{3}\,l^5R+8\,l^4rR+8\,l^2r^3R+$$
$$4\sqrt{3}\,l\,r^4R+25\,l^4R^2-2\sqrt{3}\,l^3rR^2+32\,l^2r^2R^2-2\sqrt{3}\,l\,r^3R^2-9\,r^4R^2+32\sqrt{3}\,l^3R^3-$$
$$44\,l^2rR^3-60\,r^3R^3-116\,l^2R^4-24\sqrt{3}\,l\,rR^4-84\,r^2R^4-64\sqrt{3}\,l\,R^5+96\,rR^5+192\,R^6\Big)\Big\}$$

$$\Big\{\text{X13, FERMAT POINT, X74, ISOGONAL CONJUGATE OF EULER INFINITY POINT},$$
$$-\Big(\Big(12\sqrt{3}\,l^5r+16\,l^4r^2-8\sqrt{3}\,l^3r^3-16\,l^2r^4+12\sqrt{3}\,l\,r^5-96\sqrt{3}\,l^3r^2R-64\,l^2r^3R+$$
$$96\sqrt{3}\,l\,r^4R-27\,l^4R^2-156\sqrt{3}\,l^3rR^2+18\,l^2r^2R^2+348\sqrt{3}\,l\,r^3R^2-27\,r^4R^2+$$
$$216\,l^2rR^3+624\sqrt{3}\,l\,r^2R^3-216\,r^3R^3+108\,l^2R^4+432\sqrt{3}\,l\,rR^4-540\,r^2R^4-432\,rR^5\Big)\Big/$$
$$\Big(3\left(l^2+2\sqrt{3}\,l\,r-r^2-4\,rR\right)\left(2\,l^2-2\,r^2-8\,rR-9\,R^2\right)\Big)\Big)\Big\}$$

$$\Big\{\text{X13, FERMAT POINT, X75, ISOTOMIC CONJUGATE OF INCENTER},$$
$$\frac{1}{3\left(l^2+2\sqrt{3}\,l\,r-r^2-4\,rR\right)\left(l^2+r^2+4\,rR\right)^2}$$
$$\Big(3\,l^8+4\sqrt{3}\,l^7r+4\,l^6r^2+4\sqrt{3}\,l^5r^3+2\,l^4r^4-4\sqrt{3}\,l^3r^5+4\,l^2r^6-$$
$$4\sqrt{3}\,l\,r^7+3\,r^8-48\,l^6rR-64\sqrt{3}\,l^5r^2R+32\,l^4r^3R+80\sqrt{3}\,l^3r^4R-64\,l^2r^5R-$$
$$48\sqrt{3}\,l\,r^6R+48\,r^7R+96\,l^4r^2R^2+96\sqrt{3}\,l^3r^3R^2-416\,l^2r^4R^2-$$
$$192\sqrt{3}\,l\,r^5R^2+288\,r^6R^2-384\,l^2r^3R^3-256\sqrt{3}\,l\,r^4R^3+768\,r^5R^3+768\,r^4R^4\Big)\Big\}$$

$$\left\{\text{X13, FERMAT POINT, X76, 3rd BROCARD POINT,}\right.$$
$$\left(\left(3 l^2+2\sqrt{3}\, l r-3 r^2-12 r R\right)^2 \left(l^8+4 l^6 r^2+6 l^4 r^4+4 l^2 r^6+r^8-16 l^6 r R-16 l^4 r^3 R+16 l^2 r^5 R+16 r^7 R+32 l^2 r^4 R^2+96 r^6 R^2+128 l^2 r^3 R^3+256 r^5 R^3+256 r^4 R^4\right)\right)\Big/$$
$$\left.\left(9\left(l^2+2\sqrt{3}\, l r-r^2-4 r R\right)\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)^2\right)\right\}$$

$$\left\{\text{X13, FERMAT POINT, X77, ISOGONAL CONJUGATE OF X(33)},\ \frac{1}{3\left(l^2+2\sqrt{3}\, l r-r^2-4 r R\right)\left(l^2-r R-4 R^2\right)^2}\right.$$
$$r^2\left(-8 l^6+8\sqrt{3}\, l^5 r-18\sqrt{3}\, l^5 R+22 l^4 r R+2\sqrt{3}\, l^3 r^2 R-6 l^2 r^3 R+115 l^4 R^2+24\sqrt{3}\, l^3 r R^2-62 l^2 r^2 R^2-4\sqrt{3}\, l r^3 R^2+3 r^4 R^2+136\sqrt{3}\, l^3 R^3-280 l^2 r R^3-48\sqrt{3}\, l r^2 R^3+48 r^3 R^3-512 l^2 R^4-192\sqrt{3}\, l r R^4+288 r^2 R^4-256\sqrt{3}\, l R^5+768 r R^5+768 R^6\right)\Big\}$$

$$\left\{\text{X13, FERMAT POINT, X78, ISOGONAL CONJUGATE OF X(34)},\right.$$
$$\left(-8 l^2 r^4+8\sqrt{3}\, l r^5+2\sqrt{3}\, l^3 r^2 R+10 l^2 r^3 R+14\sqrt{3}\, l r^4 R+6 r^5 R+3 l^4 R^2+4\sqrt{3}\, l^3 r R^2-2 l^2 r^2 R^2-32\sqrt{3}\, l r^3 R^2+39 r^4 R^2-48 l^2 r R^3-56\sqrt{3}\, l r^2 R^3+72 r^3 R^3+48 r^2 R^4\right)\Big/$$
$$\left.\left(3\,(r-R)^2\left(l^2+2\sqrt{3}\, l r-r^2-4 r R\right)\right)\right\}$$

$$\left\{\text{X13, FERMAT POINT, X79, ISOGONAL CONJUGATE OF X(35)},\right.$$
$$\left.\frac{4 r^2\left(\sqrt{3}\, l-r-3 R\right)^2\left(-2 l^2-2\sqrt{3}\, l r+\sqrt{3}\, l R+3 r R+12 R^2\right)}{3\,(2 r+3 R)^2\left(l^2+2\sqrt{3}\, l r-r^2-4 r R\right)}\right\}$$

$$\left\{\text{X13, FERMAT POINT, X80, REFLECTION OF INCENTER IN FEUERBACH POINT,}\right.$$
$$\left.-\frac{4 r^2\left(\sqrt{3}\, l+3 r+3 R\right)^2\left(-\sqrt{3}\, l+r+4 R\right)}{9\,(2 r-R)\left(l^2+2\sqrt{3}\, l r-r^2-4 r R\right)}\right\}$$

$$\left\{\text{X13, FERMAT POINT, X81, CEVAPOINT OF INCENTER AND SYMMEDIAN POINT,}\right.$$
$$-\left(\left(r^2\left(8 l^6-16\sqrt{3}\, l^5 r-16 l^4 r^2+16\sqrt{3}\, l^3 r^3+8 l^2 r^4+2\sqrt{3}\, l^5 R-16 l^4 r R+36\sqrt{3}\, l^3 r^2 R+16 l^2 r^3 R+2\sqrt{3}\, l r^4 R-39 l^4 R^2+56\sqrt{3}\, l^3 r R^2+14 l^2 r^2 R^2+16\sqrt{3}\, l r^3 R^2-3 r^4 R^2-48 l^2 r R^3+32\sqrt{3}\, l r^2 R^3-24 r^3 R^3-48 r^2 R^4\right)\right)\Big/\left(3\left(l^2+2\sqrt{3}\, l r-r^2-4 r R\right)\left(l^2-r^2-r R\right)^2\right)\right)\Big\}$$

$$\left\{\text{X13, FERMAT POINT, X82, ISOGONAL CONJUGATE OF X(38)},\right.$$
$$\left(r^2\left(-8 l^{10}+24\sqrt{3}\, l^9 r+64 l^8 r^2-128\sqrt{3}\, l^7 r^3-176 l^6 r^4+208\sqrt{3}\, l^5 r^5+192 l^4 r^6-128\sqrt{3}\, l^3 r^7-72 l^2 r^8+24\sqrt{3}\, l r^9-2\sqrt{3}\, l^9 R+138 l^8 r R-388\sqrt{3}\, l^7 r^2 R-892 l^6 r^3 R+1408\sqrt{3}\, l^5 r^4 R+1648 l^4 r^5 R-1404\sqrt{3}\, l^3 r^6 R-900 l^2 r^7 R+386\sqrt{3}\, l r^8 R+6 r^9 R+39 l^8 R^2-48\sqrt{3}\, l^7 r R^2-1216 l^6 r^2 R^2+2688\sqrt{3}\, l^5 r^3 R^2+4870 l^4 r^4 R^2-5488\sqrt{3}\, l^3 r^5 R^2-4376 l^2 r^6 R^2+2400\sqrt{3}\, l r^7 R^2+123 r^8 R^2-576 l^6 r R^3+784\sqrt{3}\, l^5 r^2 R^3+6048 l^4 r^3 R^3-8496\sqrt{3}\, l^3 r^4 R^3-10672 l^2 r^5 R^3+7104\sqrt{3}\, l r^6 R^3+1008 r^7 R^3+3456 l^4 r^2 R^4-3552\sqrt{3}\, l^3 r^3 R^4-14144 l^2 r^4 R^4+9728\sqrt{3}\, l r^5 R^4+4128 r^6 R^4-9216 l^2 r^3 R^5+4608\sqrt{3}\, l r^4 R^5+8448 r^5 R^5+6912 r^4 R^6\right)\right)\Big/$$
$$\left.\left(3\left(l^2+2\sqrt{3}\, l r-r^2-4 r R\right)\left(l^4-4 l^2 r^2+3 r^4-9 l^2 r R+19 r^3 R+28 r^2 R^2\right)^2\right)\right\}$$

$$\left\{\text{X13, FERMAT POINT, X83, CEVAPOINT OF CENTROID AND SYMMEDIAN POINT,}\right.$$
$$\left(\left(3 l^2-2\sqrt{3}\, l r-3 r^2-12 r R\right)^2\left(l^8-60 l^6 r^2+134 l^4 r^4-60 l^2 r^6+r^8-16 l^6 r R+496 l^4 r^3 R-496 l^2 r^5 R+16 r^7 R+288 l^4 r^2 R^2-1280 l^2 r^4 R^2+96 r^6 R^2-1024 l^2 r^3 R^3+256 r^5 R^3+256 r^4 R^4\right)\right)\Big/$$
$$\left.\left(9\left(l^2+2\sqrt{3}\, l r-r^2-4 r R\right)\left(5 l^4-6 l^2 r^2+5 r^4-40 l^2 r R+40 r^3 R+80 r^2 R^2\right)^2\right)\right\}$$

$$\Big\{\text{X13, FERMAT POINT, X84, ISOGONAL CONJUGATE OF X(40)},$$
$$-\Big(\Big(4\Big(2\sqrt{3}\,l^3 r^3 + 2 l^2 r^4 - 3 l^4 r R - 9\sqrt{3}\,l^3 r^2 R + 4\sqrt{3}\,l r^4 R + 3 l^4 R^2 + 6\sqrt{3}\,l^3 r R^2 + 15 l^2 r^2 R^2 + 16\sqrt{3}\,l r^3 R^2 - 12 l^2 r R^3 + 12\sqrt{3}\,l r^2 R^3 - 12 l^2 R^4 - 24\sqrt{3}\,l r R^4 + 12 r^2 R^4 + 48 r R^5\Big)\Big)\Big/\Big(3 r^2\Big(l^2 + 2\sqrt{3}\,l r - r^2 - 4 r R\Big)\Big)\Big)\Big\}$$

$$\Big\{\text{X13, FERMAT POINT, X85, ISOTOMIC CONJUGATE OF X(9)},$$
$$\frac{1}{3\Big(l^2 + 2\sqrt{3}\,l r - r^2 - 4 r R\Big)\Big(l^2 + r^2 + 8 r R + 16 R^2\Big)^2}$$
$$\Big(3 l^8 + 4\sqrt{3}\,l^7 r + 4 l^6 r^2 + 4\sqrt{3}\,l^5 r^3 + 2 l^4 r^4 - 4\sqrt{3}\,l^3 r^5 + 4 l^2 r^6 - 4\sqrt{3}\,l r^7 + 3 r^8 - 72 l^6 r R - 64\sqrt{3}\,l^5 r^2 R + 40 l^4 r^3 R + 48\sqrt{3}\,l^3 r^4 R - 8 l^2 r^5 R - 80\sqrt{3}\,l r^6 R + 72 r^7 R - 32\sqrt{3}\,l^5 r R^2 + 176 l^4 r^2 R^2 + 576\sqrt{3}\,l^3 r^3 R^2 - 480 l^2 r^4 R^2 - 640\sqrt{3}\,l r^5 R^2 + 720 r^6 R^2 + 192 l^4 r R^3 + 1280\sqrt{3}\,l^3 r^2 R^3 - 2432 l^2 r^3 R^3 - 2560\sqrt{3}\,l r^4 R^3 + 3840 r^5 R^3 - 3584 l^2 r^2 R^4 - 5120\sqrt{3}\,l r^3 R^4 + 11520 r^4 R^4 - 4096\sqrt{3}\,l r^2 R^5 + 18432 r^3 R^5 + 12288 r^2 R^6\Big)\Big\}$$

$$\Big\{\text{X13, FERMAT POINT, X86, CEVAPOINT OF INCENTER AND CENTROID},$$
$$\frac{1}{3\Big(l^2 + 2\sqrt{3}\,l r - r^2 - 4 r R\Big)\Big(5 l^2 + r^2 + 4 r R\Big)^2}$$
$$\Big(3 l^8 - 4\sqrt{3}\,l^7 r - 164 l^6 r^2 + 116\sqrt{3}\,l^5 r^3 - 14 l^4 r^4 - 12\sqrt{3}\,l^3 r^5 + 28 l^2 r^6 - 4\sqrt{3}\,l r^7 + 3 r^8 + 16\sqrt{3}\,l^5 r^2 R - 80 l^4 r^3 R - 32\sqrt{3}\,l^3 r^4 R + 224 l^2 r^5 R - 48\sqrt{3}\,l r^6 R + 48 r^7 R + 480 l^4 r^2 R^2 - 224\sqrt{3}\,l^3 r^3 R^2 + 736 l^2 r^4 R^2 - 192\sqrt{3}\,l r^5 R^2 + 288 r^6 R^2 + 1152 l^2 r^3 R^3 - 256\sqrt{3}\,l r^4 R^3 + 768 r^5 R^3 + 768 r^4 R^4\Big)\Big\}$$

$$\Big\{\text{X13, FERMAT POINT, X87, X(2)-CROSS CONJUGATE OF X(1)},$$
$$\Big(4 r^2\Big(-2 l^{10} + 2\sqrt{3}\,l^9 r - 8 l^8 r^2 + 8\sqrt{3}\,l^7 r^3 - 12 l^6 r^4 + 12\sqrt{3}\,l^5 r^5 - 8 l^4 r^6 + 8\sqrt{3}\,l^3 r^7 - 2 l^2 r^8 + 2\sqrt{3}\,l r^9 + \sqrt{3}\,l^9 R + 77 l^8 r R - 76\sqrt{3}\,l^7 r^2 R + 100 l^6 r^3 R - 106\sqrt{3}\,l^5 r^4 R - 34 l^4 r^5 R + 20\sqrt{3}\,l^3 r^6 R - 60 l^2 r^7 R + 49\sqrt{3}\,l r^8 R - 3 r^9 R + 12 l^8 R^2 - 28\sqrt{3}\,l^7 r R^2 - 844 l^6 r^2 R^2 + 876\sqrt{3}\,l^5 r^3 R^2 + 788 l^4 r^4 R^2 - 724\sqrt{3}\,l^3 r^5 R^2 - 452 l^2 r^6 R^2 + 420\sqrt{3}\,l r^7 R^2 - 48 r^8 R^2 - 336 l^6 r R^3 + 336\sqrt{3}\,l^5 r^2 R^3 + 2368 l^4 r^3 R^3 - 2144\sqrt{3}\,l^3 r^4 R^3 - 1680 l^2 r^5 R^3 + 1616\sqrt{3}\,l r^6 R^3 - 288 r^7 R^3 + 2496 l^4 r^2 R^4 - 2368\sqrt{3}\,l^3 r^3 R^4 - 3392 l^2 r^4 R^4 + 2752\sqrt{3}\,l r^5 R^4 - 768 r^6 R^4 - 2304 l^2 r^3 R^5 + 1536\sqrt{3}\,l r^4 R^5 - 768 r^5 R^5\Big)\Big)\Big/\Big(3\Big(l^2 + 2\sqrt{3}\,l r - r^2 - 4 r R\Big)\Big(l^4 + 2 l^2 r^2 + r^4 - 20 l^2 r R + 12 r^3 R + 32 r^2 R^2\Big)^2\Big)\Big\}$$

$$\Big\{\text{X13, FERMAT POINT, X88, ISOGONAL CONJUGATE OF X(44)},$$
$$-\Big(\Big(r^2\Big(8 l^6 + 16\sqrt{3}\,l^5 r + 48 l^4 r^2 + 48\sqrt{3}\,l^3 r^3 + 72 l^2 r^4 - 2\sqrt{3}\,l^5 R - 216 l^4 r R - 300\sqrt{3}\,l^3 r^2 R - 504 l^2 r^3 R + 54\sqrt{3}\,l r^4 R - 39 l^4 R^2 - 24\sqrt{3}\,l^3 r R^2 + 1422 l^2 r^2 R^2 + 432\sqrt{3}\,l r^3 R^2 - 243 r^4 R^2 + 864 l^2 r R^3 + 864\sqrt{3}\,l r^2 R^3 - 1944 r^3 R^3 - 3888 r^2 R^4\Big)\Big)\Big/\Big(3\Big(l^2 + 3 r^2 - 15 r R\Big)^2\Big(l^2 + 2\sqrt{3}\,l r - r^2 - 4 r R\Big)\Big)\Big)\Big\}$$

$$\Big\{\text{X13, FERMAT POINT, X89, ISOGONAL CONJUGATE OF X(45)},$$
$$-\Big(\Big(r^2\Big(32 l^6 - 128\sqrt{3}\,l^5 r - 192 l^4 r^2 + 384\sqrt{3}\,l^3 r^3 + 288 l^2 r^4 + 4\sqrt{3}\,l^5 R + 120 l^4 r R + 48\sqrt{3}\,l^3 r^2 R - 72 l^2 r^3 R + 108\sqrt{3}\,l r^4 R - 147 l^4 R^2 + 528\sqrt{3}\,l^3 r R^2 + 666 l^2 r^2 R^2 + 864\sqrt{3}\,l r^3 R^2 - 243 r^4 R^2 - 1080 l^2 r R^3 + 1728\sqrt{3}\,l r^2 R^3 - 1944 r^3 R^3 - 3888 r^2 R^4\Big)\Big)\Big/\Big(3\Big(l^2 + 2\sqrt{3}\,l r - r^2 - 4 r R\Big)\Big(2 l^2 - 6 r^2 + 3 r R\Big)^2\Big)\Big)\Big\}$$

{X13, FERMAT POINT, X90, X(3)-CROSS CONJUGATE OF X(1),

$$-\left(\left(4 r^2 \left(2 \sqrt{3}\, l^3 r^3 + 2 l^2 r^4 - 3 l^4 r R - 3 \sqrt{3}\, l^3 r^2 R + 8 l^2 r^3 R + 2 \sqrt{3}\, l r^4 R - 4 \sqrt{3}\, l^3 r R^2 + 16 l^2 r^2 R^2 + 14 \sqrt{3}\, l r^3 R^2 + \sqrt{3}\, l^3 R^3 + 10 l^2 r R^3 + 29 \sqrt{3}\, l r^2 R^3 + 2 l^2 R^4 + 12 \sqrt{3}\, l r R^4 - 5 \sqrt{3}\, l R^5 - 3 r R^5 - 12 R^6\right)\right) \Big/ \left(3 \left(l^2 + 2 \sqrt{3}\, l r - r^2 - 4 r R\right) \left(r^2 + 2 r R - R^2\right)^2\right)\right)\}$$

{X13, FERMAT POINT, X91, ISOGONAL CONJUGATE OF X(47),

$$\left(r^2 \left(3 l^8 + 4 \sqrt{3}\, l^7 r + 4 l^6 r^2 + 4 \sqrt{3}\, l^5 r^3 + 2 l^4 r^4 - 4 \sqrt{3}\, l^3 r^5 + 4 l^2 r^6 - 4 \sqrt{3}\, l r^7 + 3 r^8 + 2 \sqrt{3}\, l^7 R - 50 l^6 r R - 66 \sqrt{3}\, l^5 r^2 R + 34 l^4 r^3 R + 70 \sqrt{3}\, l^3 r^4 R - 54 l^2 r^5 R - 54 \sqrt{3}\, l r^6 R + 54 r^7 R - 32 l^6 R^2 - 68 \sqrt{3}\, l^5 r R^2 + 268 l^4 r^2 R^2 + 312 \sqrt{3}\, l^3 r^3 R^2 - 488 l^2 r^4 R^2 - 292 \sqrt{3}\, l r^5 R^2 + 396 r^6 R^2 - 12 \sqrt{3}\, l^5 R^3 + 420 l^4 r R^3 + 504 \sqrt{3}\, l^3 r^2 R^3 - 1352 l^2 r^3 R^3 - 796 \sqrt{3}\, l r^4 R^3 + 1524 r^5 R^3 + 140 l^4 R^4 + 256 \sqrt{3}\, l^3 r R^4 - 1880 l^2 r^2 R^4 - 1152 \sqrt{3}\, l r^3 R^4 + 3324 r^4 R^4 + 24 \sqrt{3}\, l^3 R^5 - 1240 l^2 r R^5 - 872 \sqrt{3}\, l r^2 R^5 + 4200 r^3 R^5 - 272 l^2 R^6 - 272 \sqrt{3}\, l r R^6 + 3072 r^2 R^6 - 16 \sqrt{3}\, l R^7 + 1200 r R^7 + 192 R^8\right)\right) \Big/ \left(3 \left(l^2 + 2 \sqrt{3}\, l r - r^2 - 4 r R\right) \left(l^2 r + r^3 - l^2 R + 3 r^2 R + 2 r R^2 + 2 R^3\right)^2\right)\}$$

{X13, FERMAT POINT, X92, CEVAPOINT OF INCENTER AND CLAWSON POINT,

$$\frac{1}{3 \left(l^2 + 2 \sqrt{3}\, l r - r^2 - 4 r R\right) \left(l^2 + r^2 - 4 R^2\right)^2} \left(3 l^8 + 4 \sqrt{3}\, l^7 r + 4 l^6 r^2 + 4 \sqrt{3}\, l^5 r^3 + 2 l^4 r^4 - 4 \sqrt{3}\, l^3 r^5 + 4 l^2 r^6 - 4 \sqrt{3}\, l r^7 + 3 r^8 - 72 l^6 r R - 72 \sqrt{3}\, l^5 r^2 R + 48 l^4 r^3 R + 64 \sqrt{3}\, l^3 r^4 R - 24 l^2 r^5 R - 56 \sqrt{3}\, l r^6 R + 48 r^7 R - 24 l^6 R^2 - 32 \sqrt{3}\, l^5 r R^2 + 376 l^4 r^2 R^2 + 336 \sqrt{3}\, l^3 r^3 R^2 - 344 l^2 r^4 R^2 - 304 \sqrt{3}\, l r^5 R^2 + 312 r^6 R^2 + 480 l^4 r R^3 + 416 \sqrt{3}\, l^3 r^2 R^3 - 1152 l^2 r^3 R^3 - 800 \sqrt{3}\, l r^4 R^3 + 1056 r^5 R^3 + 48 l^4 R^4 + 64 \sqrt{3}\, l^3 r R^4 - 1568 l^2 r^2 R^4 - 1024 \sqrt{3}\, l r^3 R^4 + 1968 r^4 R^4 - 768 l^2 r R^5 - 512 \sqrt{3}\, l r^2 R^5 + 1920 r^3 R^5 + 768 r^2 R^6\right)\}$$

{X13, FERMAT POINT, X93, ISOGONAL CONJUGATE OF X(49),

$$\left(3 l^{12} + 4 \sqrt{3}\, l^{11} r + 10 l^{10} r^2 + 12 \sqrt{3}\, l^9 r^3 + 13 l^8 r^4 + 8 \sqrt{3}\, l^7 r^5 + 12 l^6 r^6 - 8 \sqrt{3}\, l^5 r^7 + 13 l^4 r^8 - 12 \sqrt{3}\, l^3 r^9 + 10 l^2 r^{10} - 4 \sqrt{3}\, l r^{11} + 3 r^{12} - 72 l^{10} r R - 80 \sqrt{3}\, l^9 r^2 R - 88 l^8 r^3 R - 64 \sqrt{3}\, l^7 r^4 R - 16 l^6 r^5 R + 32 \sqrt{3}\, l^5 r^6 R + 16 l^4 r^7 R - 64 \sqrt{3}\, l^3 r^8 R + 88 l^2 r^9 R - 80 \sqrt{3}\, l r^{10} R + 72 r^{11} R - 30 l^{10} R^2 - 40 \sqrt{3}\, l^9 r R^2 + 326 l^8 r^2 R^2 + 192 \sqrt{3}\, l^7 r^3 R^2 + 212 l^6 r^4 R^2 + 336 \sqrt{3}\, l^5 r^5 R^2 - 180 l^4 r^6 R^2 - 64 \sqrt{3}\, l^3 r^7 R^2 + 202 l^2 r^8 R^2 - 680 \sqrt{3}\, l r^9 R^2 + 750 r^{10} R^2 + 600 l^8 r R^3 + 640 \sqrt{3}\, l^7 r^2 R^3 + 288 l^6 r^3 R^3 + 384 \sqrt{3}\, l^5 r^4 R^3 - 1392 l^4 r^5 R^3 + 128 \sqrt{3}\, l^3 r^6 R^3 - 224 l^2 r^7 R^3 - 3200 \sqrt{3}\, l r^8 R^3 + 4440 r^9 R^3 + 96 l^8 R^4 + 156 \sqrt{3}\, l^7 r R^4 - 1656 l^6 r^2 R^4 - 1124 \sqrt{3}\, l^5 r^3 R^4 - 4336 l^4 r^4 R^4 + 356 \sqrt{3}\, l^3 r^5 R^4 - 1016 l^2 r^6 R^4 - 9116 \sqrt{3}\, l r^7 R^4 + 16416 r^8 R^4 - 1536 l^6 r R^5 - 1872 \sqrt{3}\, l^5 r^2 R^5 - 4416 l^4 r^3 R^5 + 1248 \sqrt{3}\, l^3 r^4 R^5 + 1600 l^2 r^5 R^5 - 16208 \sqrt{3}\, l r^6 R^5 + 39168 r^7 R^5 - 102 l^6 R^6 - 352 \sqrt{3}\, l^5 r R^6 + 602 l^4 r^2 R^6 + 3136 \sqrt{3}\, l^3 r^3 R^6 + 8230 l^2 r^4 R^6 - 18080 \sqrt{3}\, l r^5 R^6 + 60006 r^6 R^6 + 1224 l^4 r R^7 + 2816 \sqrt{3}\, l^3 r^2 R^7 + 8656 l^2 r^3 R^7 - 12800 \sqrt{3}\, l r^4 R^7 + 56520 r^5 R^7 + 21 l^4 R^8 + 520 \sqrt{3}\, l^3 r R^8 + 1978 l^2 r^2 R^8 - 6152 \sqrt{3}\, l r^3 R^8 + 29493 r^4 R^8 - 168 l^2 r R^9 - 2080 \sqrt{3}\, l r^2 R^9 + 6696 r^3 R^9 + 12 l^2 R^{10} - 288 \sqrt{3}\, l r R^{10} + 324 r^2 R^{10} - 48 r R^{11}\right) \Big/ \left(3 \left(l^2 + 2 \sqrt{3}\, l r - r^2 - 4 r R\right) \left(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 8 l^2 R^2 + 24 r^2 R^2 + 32 r R^3 + 13 R^4\right)^2\right)\}$$

{X13, FERMAT POINT, X94, ISOGONAL CONJUGATE OF X(50),

$$\left(\left(\sqrt{3}\, l - r - 3 R\right)^2 \left(\sqrt{3}\, l + 3 r + 3 R\right)^2 \left(l^8 + 4 l^6 r^2 + 6 l^4 r^4 + 4 l^2 r^6 + r^8 - 16 l^6 r R - 16 l^4 r^3 R + 16 l^2 r^5 R + 16 r^7 R - 6 l^6 R^2 - 6 l^4 r^2 R^2 + 38 l^2 r^4 R^2 + 102 r^6 R^2 + 72 l^4 r R^3 + 80 l^2 r^3 R^3 + 328 r^5 R^3 + 9 l^4 R^4 + 18 l^2 r^2 R^4 + 553 r^4 R^4 - 72 l^2 r R^5 + 456 r^3 R^5 + 144 r^2 R^6\right)\right) \Big/ \left(9 \left(l^2 + 2 \sqrt{3}\, l r - r^2 - 4 r R\right) \left(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 12 l^2 R^2 + 28 r^2 R^2 + 48 r R^3 + 27 R^4\right)^2\right)\}$$

$$\{X13,\ \text{FERMAT POINT},\ X95,\ \text{CEVAPOINT OF CENTROID AND CIRCUMCENTER},$$
$$\Big(3\,l^{12}+4\sqrt{3}\,l^{11}r+58\,l^{10}r^2+12\sqrt{3}\,l^9r^3-51\,l^8r^4-1016\sqrt{3}\,l^7r^5-2260\,l^6r^6+1016\sqrt{3}\,l^5r^7-$$
$$51\,l^4r^8-12\sqrt{3}\,l^3r^9+58\,l^2r^{10}-4\sqrt{3}\,l\,r^{11}+3\,r^{12}-72\,l^{10}r\,R-80\sqrt{3}\,l^9r^2R-856\,l^8r^3R-$$
$$64\sqrt{3}\,l^7r^4R+1264\,l^6r^5R+4128\sqrt{3}\,l^5r^6R-1264\,l^4r^7R-64\sqrt{3}\,l^3r^8R+856\,l^2r^9R-$$
$$80\sqrt{3}\,l\,r^{10}R+72\,r^{11}R-24\,l^{10}R^2-32\sqrt{3}\,l^9r\,R^2+136\,l^8r^2R^2+384\sqrt{3}\,l^7r^3R^2+3344\,l^6r^4R^2+$$
$$4288\sqrt{3}\,l^5r^5R^2-5872\,l^4r^6R^2+128\sqrt{3}\,l^3r^7R^2+5000\,l^2r^8R^2-672\sqrt{3}\,l\,r^9R^2+$$
$$744\,r^{10}R^2+480\,l^8r\,R^3+512\sqrt{3}\,l^7r^2R^3+2688\,l^6r^3R^3-1024\sqrt{3}\,l^5r^4R^3-10176\,l^4r^5R^3+$$
$$1536\sqrt{3}\,l^3r^6R^3+14464\,l^2r^7R^3-3072\sqrt{3}\,l\,r^8R^3+4320\,r^9R^3+48\,l^8R^4+64\sqrt{3}\,l^7r\,R^4-$$
$$1280\,l^6r^2R^4-1088\sqrt{3}\,l^5r^3R^4-4448\,l^4r^4R^4+3136\sqrt{3}\,l^3r^5R^4+21248\,l^2r^6R^4-$$
$$8256\sqrt{3}\,l\,r^7R^4+15408\,r^8R^4-768\,l^6r\,R^5-768\sqrt{3}\,l^5r^2R^5-4352\,l^4r^3R^5+1024\sqrt{3}\,l^3r^4R^5+$$
$$15616\,l^2r^5R^5-13056\sqrt{3}\,l\,r^6R^5+34560\,r^7R^5-1536\sqrt{3}\,l^3r^3R^6+8704\,l^2r^4R^6-$$
$$11264\sqrt{3}\,l\,r^5R^6+47616\,r^6R^6+6144\,l^2r^3R^7-4096\sqrt{3}\,l\,r^4R^7+36864\,r^5R^7+12288\,r^4R^8\Big)\Big/$$
$$\Big(3\left(l^2+2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)\left(l^4+18\,l^2r^2+r^4-8\,l^2r\,R+8\,r^3R-4\,l^2R^2+20\,r^2R^2+16\,r\,R^3\right)^2\Big)\}$$

$$\{X13,\ \text{FERMAT POINT},\ X96,\ \text{ISOGONAL CONJUGATE OF X(52)},$$
$$-\Big(\Big(\left(l^2+2\sqrt{3}\,l\,r-r^2-4\,r\,R-2\,R^2\right)^2\Big(3\,l^8-52\,l^6r^2+146\,l^4r^4-52\,l^2r^6+$$
$$3\,r^8-48\,l^6r\,R+464\,l^4r^3R-464\,l^2r^5R+48\,r^7R-24\,l^6R^2+584\,l^4r^2R^2-$$
$$1512\,l^2r^4R^2+312\,r^6R^2+288\,l^4r\,R^3-2240\,l^2r^3R^3+1056\,r^5R^3+60\,l^4R^4-$$
$$1576\,l^2r^2R^4+1980\,r^4R^4-480\,l^2r\,R^5+2016\,r^3R^5-48\,l^2R^6+1008\,r^2R^6+192\,r\,R^7\Big)\Big)\Big/$$
$$\Big(3\left(l^2+2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)\left(l^4-14\,l^2r^2+r^4-8\,l^2r\,R+8\,r^3R+16\,r^2R^2-4\,R^4\right)^2\Big)\Big)\}$$

$$\{X13,\ \text{FERMAT POINT},\ X97,\ \text{ISOGONAL CONJUGATE OF X(53)},$$
$$-\Big(\Big(8\,l^{10}r^2-32\sqrt{3}\,l^9r^3-96\,l^8r^4+224\sqrt{3}\,l^7r^5+304\,l^6r^6-224\sqrt{3}\,l^5r^7-96\,l^4r^8+32\sqrt{3}\,l^3r^9+$$
$$8\,l^2r^{10}-128\,l^8r^3R+384\sqrt{3}\,l^7r^4R+896\,l^6r^5R-1280\sqrt{3}\,l^5r^6R-896\,l^4r^7R+$$
$$384\sqrt{3}\,l^3r^8R+128\,l^2r^9R-2\sqrt{3}\,l^9r\,R^2-160\,l^8r^2R^2+376\sqrt{3}\,l^7r^3R^2+1888\,l^6r^4R^2-$$
$$2828\sqrt{3}\,l^5r^5R^2-3680\,l^4r^6R^2+1912\sqrt{3}\,l^3r^7R^2+928\,l^2r^8R^2-2\sqrt{3}\,l\,r^9R^2+$$
$$32\sqrt{3}\,l^7r^2R^3+1920\,l^6r^3R^3-3040\sqrt{3}\,l^5r^4R^3-8448\,l^4r^5R^3+5088\sqrt{3}\,l^3r^6R^3+$$
$$3968\,l^2r^7R^3-32\sqrt{3}\,l\,r^8R^3-3\,l^8R^4+16\sqrt{3}\,l^7r\,R^4+1112\,l^6r^2R^4-1728\sqrt{3}\,l^5r^3R^4-$$
$$11626\,l^4r^4R^4+7808\sqrt{3}\,l^3r^5R^4+10840\,l^2r^6R^4-208\sqrt{3}\,l\,r^7R^4-3\,r^8R^4+48\,l^6r\,R^5-$$
$$192\sqrt{3}\,l^5r^2R^5-8944\,l^4r^3R^5+6848\sqrt{3}\,l^3r^4R^5+19184\,l^2r^5R^5-704\sqrt{3}\,l\,r^6R^5-48\,r^7R^5+$$
$$24\,l^6R^6-32\sqrt{3}\,l^5r\,R^6-3720\,l^4r^2R^6+2944\sqrt{3}\,l^3r^3R^6+21608\,l^2r^4R^6-1312\sqrt{3}\,l\,r^5R^6-$$
$$312\,r^6R^6-288\,l^4r\,R^7+256\sqrt{3}\,l^3r^2R^7+14784\,l^2r^3R^7-1280\sqrt{3}\,l\,r^4R^7-1056\,r^5R^7-$$
$$48\,l^4R^8+5280\,l^2r^2R^8-512\sqrt{3}\,l\,r^3R^8-1968\,r^4R^8+384\,l^2r\,R^9-1920\,r^3R^9-768\,r^2R^{10}\Big)\Big/$$
$$\Big(3\left(l^2+2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)\left(l^4-6\,l^2r^2+r^4-8\,l^2r\,R+8\,r^3R-7\,l^2R^2+23\,r^2R^2+28\,r\,R^3+12\,R^4\right)^2\Big)\Big)\}$$

$$\{X13,\ \text{FERMAT POINT},\ X98,\ \text{TarryPoint},$$
$$-\frac{3\,l^4-10\,l^2r^2+3\,r^4-24\,l^2r\,R+24\,r^3R-12\,l^2R^2+60\,r^2R^2+48\,r\,R^3}{3\left(l^2-2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)}\}$$

$$\{X13,\ \text{FERMAT POINT},\ X99,\ \text{STEINER POINT},$$
$$\Big(3\,l^6-2\sqrt{3}\,l^5r+19\,l^4r^2+28\sqrt{3}\,l^3r^3-19\,l^2r^4-2\sqrt{3}\,l\,r^5-3\,r^6-36\,l^4r\,R+16\sqrt{3}\,l^3r^2R-$$
$$40\,l^2r^3R-16\sqrt{3}\,l\,r^4R-36\,r^5R-144\,l^2r^2R^2-32\sqrt{3}\,l\,r^3R^2-144\,r^4R^2-192\,r^3R^3\Big)\Big/$$
$$\Big(3\left(l^2-2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)\left(l^2+2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)\Big)\}$$

$$\{X13,\ \text{FERMAT POINT},\ X100,\ \text{ANTICOMPLEMENT OF FEUERBACH POINT},$$
$$-\Big(\Big(8\sqrt{3}\,l^3r^2+16\,l^2r^3-8\sqrt{3}\,l\,r^4+3\,l^4R+4\sqrt{3}\,l^3r\,R-2\,l^2r^2R-52\sqrt{3}\,l\,r^3R+3\,r^4R-$$
$$48\,l^2r\,R^2-80\sqrt{3}\,l\,r^2R^2+24\,r^3R^2+48\,r^2R^3\Big)\Big/\Big(3\,(2\,r-R)\left(l^2+2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)\Big)\Big)\}$$

$$\left\{\text{X14, 2nd ISOGONIC CENTER, X15, 1st ISODYNAMIC POINT, } \frac{16\, l^2 r^2}{3\left(l^2+2\sqrt{3}\, l\, r-r^2-4\, r\, R\right)}\right\}$$

$$\left\{\text{X14, 2nd ISOGONIC CENTER, X16, 2nd ISODYNAMIC POINT, } -\frac{16\, l^2 r^2\left(2\, l^2-2\, r^2-8\, r\, R-9\, R^2\right)}{3\left(l^2-2\sqrt{3}\, l\, r-r^2-4\, r\, R\right)^2}\right\}$$

$$\left\{\text{X14, 2nd ISOGONIC CENTER, X17, 1st NAPOLEON POINT, } -\frac{64\, l^2 r^2\left(4\sqrt{3}\, l^3 r+8\, l^2 r^2-4\sqrt{3}\, l\, r^3-16\sqrt{3}\, l\, r^2 R-3\, l^2 R^2-18\sqrt{3}\, l\, r R^2+3\, r^2 R^2+12\, r R^3\right)}{\left(3\, l^2+10\sqrt{3}\, l\, r-3\, r^2-12\, r\, R\right)^2\left(l^2-2\sqrt{3}\, l\, r-r^2-4\, r\, R\right)}\right\}$$

$$\left\{\text{X14, 2nd ISOGONIC CENTER, X18, 2nd NAPOLEON POINT, } \frac{16\, l^2 r^2\left(4\sqrt{3}\, l^3 r-8\, l^2 r^2-4\sqrt{3}\, l\, r^3-16\sqrt{3}\, l\, r^2 R+3\, l^2 R^2-18\sqrt{3}\, l\, r R^2-3\, r^2 R^2-12\, r R^3\right)}{\left(3\, l^2-10\sqrt{3}\, l\, r-3\, r^2-12\, r\, R\right)^2\left(l^2-2\sqrt{3}\, l\, r-r^2-4\, r\, R\right)}\right\}$$

$$\left\{\text{X14, 2nd ISOGONIC CENTER, X19, CLAWSON POINT, } \frac{1}{3\left(l^2-2\sqrt{3}\, l\, r-r^2-4\, r\, R\right)\left(l^2-r^2-6\, r\, R-8\, R^2\right)^2}\right.$$
$$4\, l^2\left(2\sqrt{3}\, l^5 r-2\, l^4 r^2-4\sqrt{3}\, l^3 r^3+4\, l^2 r^4+2\sqrt{3}\, l\, r^5-2\, r^6-6\, l^4 r\, R-14\sqrt{3}\, l^3 r^2 R+\right.$$
$$30\, l^2 r^3 R+14\sqrt{3}\, l\, r^4 R-24\, r^5 R-3\, l^4 R^2-18\sqrt{3}\, l^3 r R^2+80\, l^2 r^2 R^2+42\sqrt{3}\, l\, r^3 R^2-$$
$$\left.\left.113\, r^4 R^2+72\, l^2 r R^3+64\sqrt{3}\, l\, r^2 R^3-264\, r^3 R^3+12\, l^2 R^4+40\sqrt{3}\, l\, r R^4-308\, r^2 R^4-144\, r R^5\right)\right\}$$

$$\left\{\text{X14, 2nd ISOGONIC CENTER, X20, DE LONGCHAMPS POINT, } -\left(\left(9\, l^4-32\sqrt{3}\, l^3 r+2\, l^2 r^2+32\sqrt{3}\, l\, r^3+9\, r^4-72\, l^2 r\, R+128\sqrt{3}\, l\, r^2 R+72\, r^3 R-\right.\right.\right.$$
$$\left.\left.\left.48\, l^2 R^2+144\sqrt{3}\, l\, r R^2+192\, r^2 R^2+192\, r R^3\right)\Big/\left(3\left(l^2-2\sqrt{3}\, l\, r-r^2-4\, r\, R\right)\right)\right)\right\}$$

$$\left\{\text{X14, 2nd ISOGONIC CENTER, X21, SCHIFFLER POINT, } \left(16\sqrt{3}\, l^3 r^3-32\, l^2 r^4-16\sqrt{3}\, l\, r^5+6\, l^4 r\, R+16\sqrt{3}\, l^3 r^2 R-84\, l^2 r^3 R-80\sqrt{3}\, l\, r^4 R+6\, r^5 R+\right.$$
$$\left.3\, l^4 R^2-78\, l^2 r^2 R^2-136\sqrt{3}\, l\, r^3 R^2+39\, r^4 R^2-24\, l^2 r R^3-72\sqrt{3}\, l\, r^2 R^3+72\, r^3 R^3+48\, r^2 R^4\right)\Big/$$
$$\left.\left(3\,(2\, r+3\, R)^2\left(l^2-2\sqrt{3}\, l\, r-r^2-4\, r\, R\right)\right)\right\}$$

$$\left\{\text{X14, 2nd ISOGONIC CENTER, X22, ExeterPoint, } \frac{1}{3\left(l^2-2\sqrt{3}\, l\, r-r^2-4\, r\, R\right)\left(l^2-r^2-4\, r\, R-3\, R^2\right)^2}\right.$$
$$\left(4\sqrt{3}\, l^7 r-8\, l^6 r^2-12\sqrt{3}\, l^5 r^3+16\, l^4 r^4+12\sqrt{3}\, l^3 r^5-8\, l^2 r^6-4\sqrt{3}\, l\, r^7-48\sqrt{3}\, l^5 r^2 R+\right.$$
$$64\, l^4 r^3 R+96\sqrt{3}\, l^3 r^4 R-64\, l^2 r^5 R-48\sqrt{3}\, l\, r^6 R-26\sqrt{3}\, l^5 r R^2+36\, l^4 r^2 R^2+244\sqrt{3}\, l^3 r^3 R^2-$$
$$164\, l^2 r^4 R^2-218\sqrt{3}\, l\, r^5 R^2+208\sqrt{3}\, l^3 r^2 R^3-144\, l^2 r^3 R^3-464\sqrt{3}\, l\, r^4 R^3+3\, l^4 R^4+$$
$$\left.\left.36\sqrt{3}\, l^3 r R^4-42\, l^2 r^2 R^4-452\sqrt{3}\, l\, r^3 R^4+3\, r^4 R^4-24\, l^2 r R^5-144\sqrt{3}\, l\, r^2 R^5+24\, r^3 R^5+48\, r^2 R^6\right)\right\}$$

$$\left\{\text{X14, 2nd ISOGONIC CENTER, X23, FarOutPoint, } \left(8\sqrt{3}\, l^5 r-16\, l^4 r^2-16\sqrt{3}\, l^3 r^3+16\, l^2 r^4+8\sqrt{3}\, l\, r^5-64\sqrt{3}\, l^3 r^2 R+64\, l^2 r^3 R+\right.\right.$$
$$64\sqrt{3}\, l\, r^4 R-3\, l^4 R^2-24\sqrt{3}\, l^3 r R^2+42\, l^2 r^2 R^2+152\sqrt{3}\, l\, r^3 R^2-3\, r^4 R^2+24\, l^2 r R^3+$$
$$\left.\left.96\sqrt{3}\, l\, r^2 R^3-24\, r^3 R^3-48\, r^2 R^4\right)\Big/\left(3\left(l^2-2\sqrt{3}\, l\, r-r^2-4\, r\, R\right)\left(2\, l^2-2\, r^2-8\, r\, R-9\, R^2\right)\right)\right\}$$

$$\left\{\text{X14, 2nd ISOGONIC CENTER, X24, PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE,}\right.$$

$$\frac{1}{3\left(l^2-2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)\left(l^2-r^2-4\,r\,R-5\,R^2\right)^2}$$

$$\left(4\sqrt{3}\,l^7\,r-8\,l^6\,r^2-12\sqrt{3}\,l^5\,r^3+16\,l^4\,r^4+12\sqrt{3}\,l^3\,r^5-8\,l^2\,r^6-4\sqrt{3}\,l\,r^7-\right.$$
$$48\sqrt{3}\,l^5\,r^2\,R+64\,l^4\,r^3\,R+96\sqrt{3}\,l^3\,r^4\,R-64\,l^2\,r^5\,R-48\sqrt{3}\,l\,r^6\,R-42\sqrt{3}\,l^5\,r\,R^2+$$
$$68\,l^4\,r^2\,R^2+276\sqrt{3}\,l^3\,r^3\,R^2-196\,l^2\,r^4\,R^2-234\sqrt{3}\,l\,r^5\,R^2+336\sqrt{3}\,l^3\,r^2\,R^3-272\,l^2\,r^3\,R^3-$$
$$\left.592\sqrt{3}\,l\,r^4\,R^3-3\,l^4\,R^4+140\sqrt{3}\,l^3\,r\,R^4-134\,l^2\,r^2\,R^4-812\sqrt{3}\,l\,r^3\,R^4-3\,r^4\,R^4+\right.$$
$$\left.\left.24\,l^2\,r\,R^5-560\sqrt{3}\,l\,r^2\,R^5-24\,r^3\,R^5+12\,l^2\,R^6-144\sqrt{3}\,l\,r\,R^6-60\,r^2\,R^6-48\,r\,R^7\right)\right\}$$

$$\left\{\text{X14, 2nd ISOGONIC CENTER, X25, HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES,}\right.$$

$$\frac{1}{3\left(l^2-2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)\left(l^2-r^2-4\,r\,R-6\,R^2\right)^2}$$

$$\left(4\sqrt{3}\,l^7\,r-8\,l^6\,r^2-12\sqrt{3}\,l^5\,r^3+16\,l^4\,r^4+12\sqrt{3}\,l^3\,r^5-8\,l^2\,r^6-4\sqrt{3}\,l\,r^7-\right.$$
$$48\sqrt{3}\,l^5\,r^2\,R+64\,l^4\,r^3\,R+96\sqrt{3}\,l^3\,r^4\,R-64\,l^2\,r^5\,R-48\sqrt{3}\,l\,r^6\,R-3\,l^6\,R^2-34\sqrt{3}\,l^5\,r\,R^2+$$
$$81\,l^4\,r^2\,R^2+260\sqrt{3}\,l^3\,r^3\,R^2-209\,l^2\,r^4\,R^2-226\sqrt{3}\,l\,r^5\,R^2+3\,r^6\,R^2+36\,l^4\,r\,R^3+$$
$$272\sqrt{3}\,l^3\,r^2\,R^3-360\,l^2\,r^3\,R^3-528\sqrt{3}\,l\,r^4\,R^3+36\,r^5\,R^3+12\,l^4\,R^4+72\sqrt{3}\,l^3\,r\,R^4-$$
$$\left.\left.312\,l^2\,r^2\,R^4-616\sqrt{3}\,l\,r^3\,R^4+156\,r^4\,R^4-96\,l^2\,r\,R^5-288\sqrt{3}\,l\,r^2\,R^5+288\,r^3\,R^5+192\,r^2\,R^6\right)\right\}$$

$$\left\{\text{X14, 2nd ISOGONIC CENTER, X26, CIRCUMCENTER OF THE TANGENTIAL TRIANGLE,}\right.$$

$$\frac{1}{3\,(l-r-2\,R)^2\,(l+r+2\,R)^2\left(l^2-2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)}$$

$$\left(4\sqrt{3}\,l^7\,r-8\,l^6\,r^2-12\sqrt{3}\,l^5\,r^3+16\,l^4\,r^4+12\sqrt{3}\,l^3\,r^5-8\,l^2\,r^6-4\sqrt{3}\,l\,r^7-48\sqrt{3}\,l^5\,r^2\,R+\right.$$
$$64\,l^4\,r^3\,R+96\sqrt{3}\,l^3\,r^4\,R-64\,l^2\,r^5\,R-48\sqrt{3}\,l\,r^6\,R-34\sqrt{3}\,l^5\,r\,R^2+52\,l^4\,r^2\,R^2+260\sqrt{3}\,l^3\,r^3\,R^2-$$
$$180\,l^2\,r^4\,R^2-226\sqrt{3}\,l\,r^5\,R^2+272\sqrt{3}\,l^3\,r^2\,R^3-208\,l^2\,r^3\,R^3-528\sqrt{3}\,l\,r^4\,R^3+84\sqrt{3}\,l^3\,r\,R^4-$$
$$\left.\left.80\,l^2\,r^2\,R^4-628\sqrt{3}\,l\,r^3\,R^4-336\sqrt{3}\,l\,r^2\,R^5+3\,l^2\,R^6-54\sqrt{3}\,l\,r\,R^6-3\,r^2\,R^6-12\,r\,R^7\right)\right\}$$

$$\left\{\text{X14, 2nd ISOGONIC CENTER, X27, CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER,}\right.$$

$$\left(3\left(-9\,l^8+32\sqrt{3}\,l^7\,r-8\,l^6\,r^2-64\sqrt{3}\,l^5\,r^3+78\,l^4\,r^4+32\sqrt{3}\,l^3\,r^5-48\,l^2\,r^6+3\,r^8+48\,l^6\,r\,R-256\sqrt{3}\right.\right.$$
$$l^5\,r^2\,R+336\,l^4\,r^3\,R+256\sqrt{3}\,l^3\,r^4\,R-432\,l^2\,r^5\,R+48\,r^7\,R+24\,l^6\,R^2-272\sqrt{3}\,l^5\,r\,R^2+408\,l^4\,r^2\,R^2+$$
$$784\sqrt{3}\,l^3\,r^3\,R^2-1512\,l^2\,r^4\,R^2+312\,r^6\,R^2+96\,l^4\,r\,R^3+1088\sqrt{3}\,l^3\,r^2\,R^3-2496\,l^2\,r^3\,R^3+1056\,r^5\,R^3+$$
$$\left.\left.48\,l^4\,R^4+576\sqrt{3}\,l^3\,r\,R^4-1824\,l^2\,r^2\,R^4+1968\,r^4\,R^4-384\,l^2\,r\,R^5+1920\,r^3\,R^5+768\,r^2\,R^6\right)\right)\Big/$$
$$\left.\left.\left(\sqrt{3}\,l-3\,r-6\,R\right)^2\left(\sqrt{3}\,l+3\,r+6\,R\right)^2\left(l^2-2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)\right)\right\}$$

$$\left\{\text{X14, 2nd ISOGONIC CENTER, X28, CEVAPOINT OF X(19) AND X(25),}\right.$$

$$\frac{1}{3\left(l^2-2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)\left(l^2-r^2-5\,r\,R-6\,R^2\right)^2}$$

$$\left(4\sqrt{3}\,l^7\,r-8\,l^6\,r^2-12\sqrt{3}\,l^5\,r^3+16\,l^4\,r^4+12\sqrt{3}\,l^3\,r^5-8\,l^2\,r^6-4\sqrt{3}\,l\,r^7-3\,l^6\,r\,R-\right.$$
$$40\sqrt{3}\,l^5\,r^2\,R+77\,l^4\,r^3\,R+80\sqrt{3}\,l^3\,r^4\,R-77\,l^2\,r^5\,R-40\sqrt{3}\,l\,r^6\,R+3\,r^7\,R-3\,l^6\,R^2-$$
$$34\sqrt{3}\,l^5\,r\,R^2+114\,l^4\,r^2\,R^2+196\sqrt{3}\,l^3\,r^3\,R^2-287\,l^2\,r^4\,R^2-162\sqrt{3}\,l\,r^5\,R^2+36\,r^6\,R^2+$$
$$48\,l^4\,r\,R^3+204\sqrt{3}\,l^3\,r^2\,R^3-504\,l^2\,r^3\,R^3-332\sqrt{3}\,l\,r^4\,R^3+168\,r^5\,R^3+12\,l^4\,R^4+72\sqrt{3}\,l^3\,r\,R^4-$$
$$\left.\left.396\,l^2\,r^2\,R^4-344\sqrt{3}\,l\,r^3\,R^4+384\,r^4\,R^4-96\,l^2\,r\,R^5-144\sqrt{3}\,l\,r^2\,R^5+432\,r^3\,R^5+192\,r^2\,R^6\right)\right\}$$

$$\left\{\text{X14, 2nd ISOGONIC CENTER, X29, CEVAPOINT OF INCENTER AND ORTHOCENTER,}\right.$$

$$\frac{1}{3\left(l^2-2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)\left(3\,l^2-r^2-8\,r\,R-12\,R^2\right)^2}$$

$$\left(3\,l^8-48\,l^6\,r^2-32\sqrt{3}\,l^5\,r^3+78\,l^4\,r^4+64\sqrt{3}\,l^3\,r^5-8\,l^2\,r^6-32\sqrt{3}\,l\,r^7-9\,r^8-48\,l^6\,r\,R-\right.$$
$$64\sqrt{3}\,l^5\,r^2\,R+384\,l^4\,r^3\,R+384\sqrt{3}\,l^3\,r^4\,R-176\,l^2\,r^5\,R-320\sqrt{3}\,l\,r^6\,R-96\,r^7\,R-24\,l^6\,R^2+$$
$$600\,l^4\,r^2\,R^2+784\sqrt{3}\,l^3\,r^3\,R^2-920\,l^2\,r^4\,R^2-1296\sqrt{3}\,l\,r^5\,R^2-360\,r^6\,R^2+288\,l^4\,r\,R^3+$$
$$544\sqrt{3}\,l^3\,r^2\,R^3-1920\,l^2\,r^3\,R^3-2656\sqrt{3}\,l\,r^4\,R^3-480\,r^5\,R^3+48\,l^4\,R^4-1632\,l^2\,r^2\,R^4-$$
$$\left.\left.2752\sqrt{3}\,l\,r^3\,R^4+240\,r^4\,R^4-384\,l^2\,r\,R^5-1152\sqrt{3}\,l\,r^2\,R^5+1152\,r^3\,R^5+768\,r^2\,R^6\right)\right\}$$

$$\left\{\text{X14, 2nd ISOGONIC CENTER, X30, EulerInfinityPoint, }\infty\right\}$$

$$\left\{\text{X14, 2nd ISOGONIC CENTER, X31, SecondPowerPoint,}\right.$$
$$-\left(\left(4\,r^2\left(2\,l^6+6\sqrt{3}\,l^5\,r-12\,l^4\,r^2-20\sqrt{3}\,l^3\,r^3+18\,l^2\,r^4+6\sqrt{3}\,l\,r^5-24\,l^4\,r\,R-\right.\right.\right.$$
$$48\sqrt{3}\,l^3\,r^2\,R+72\,l^2\,r^3\,R+48\sqrt{3}\,l\,r^4\,R-9\,l^4\,R^2-22\sqrt{3}\,l^3\,r\,R^2+108\,l^2\,r^2\,R^2+$$
$$\left.\left.114\sqrt{3}\,l\,r^3\,R^2-3\,r^4\,R^2+72\,l^2\,r\,R^3+72\sqrt{3}\,l\,r^2\,R^3-24\,r^3\,R^3-48\,r^2\,R^4\right)\right)\Big/$$
$$\left.\left.\left(3\left(l^2-3\,r^2-6\,r\,R\right)^2\left(l^2-2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)\right)\right)\right\}$$

$$\left\{\text{X14, 2nd ISOGONIC CENTER, X32, ThirdPowerPoint,}\right.$$
$$-\left(\left(4\,l^2\,r^2\left(2\,l^8+8\sqrt{3}\,l^7\,r-24\,l^6\,r^2-56\sqrt{3}\,l^5\,r^3+76\,l^4\,r^4+56\sqrt{3}\,l^3\,r^5-24\,l^2\,r^6-\right.\right.\right.$$
$$8\sqrt{3}\,l\,r^7+2\,r^8-32\,l^6\,r\,R-96\sqrt{3}\,l^5\,r^2\,R+224\,l^4\,r^3\,R+320\sqrt{3}\,l^3\,r^4\,R-224\,l^2\,r^5\,R-$$
$$96\sqrt{3}\,l\,r^6\,R+32\,r^7\,R-9\,l^6\,R^2-30\sqrt{3}\,l^5\,r\,R^2+279\,l^4\,r^2\,R^2+516\sqrt{3}\,l^3\,r^3\,R^2-$$
$$727\,l^2\,r^4\,R^2-414\sqrt{3}\,l\,r^5\,R^2+201\,r^6\,R^2+108\,l^4\,r\,R^3+240\sqrt{3}\,l^3\,r^2\,R^3-968\,l^2\,r^3\,R^3-$$
$$\left.\left.752\sqrt{3}\,l\,r^4\,R^3+620\,r^5\,R^3-432\,l^2\,r^2\,R^4-480\sqrt{3}\,l\,r^3\,R^4+944\,r^4\,R^4+576\,r^3\,R^5\right)\right)\Big/$$
$$\left.\left.\left(3\left(l^2-2\,l\,r-r^2-4\,r\,R\right)^2\left(l^2+2\,l\,r-r^2-4\,r\,R\right)^2\left(l^2-2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)\right)\right)\right\}$$

$$\left\{\text{X14, 2nd ISOGONIC CENTER, X33, PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES,}\right.$$

$$-\frac{1}{3\left(l^2-2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)\left(l^2-r^2-2\,r\,R-4\,R^2\right)^2}$$

$$4\,r^2\left(2\,l^6+2\sqrt{3}\,l^5\,r-4\,l^4\,r^2-4\sqrt{3}\,l^3\,r^3+2\,l^2\,r^4+2\sqrt{3}\,l\,r^5+2\sqrt{3}\,l^5\,R-\right.$$
$$14\,l^4\,r\,R-22\sqrt{3}\,l^3\,r^2\,R+14\,l^2\,r^3\,R+20\sqrt{3}\,l\,r^4\,R-25\,l^4\,R^2-34\sqrt{3}\,l^3\,r\,R^2+$$
$$48\,l^2\,r^2\,R^2+74\sqrt{3}\,l\,r^3\,R^2-3\,r^4\,R^2-16\sqrt{3}\,l^3\,R^3+116\,l^2\,r\,R^3+128\sqrt{3}\,l\,r^2\,R^3-$$
$$\left.36\,r^3\,R^3+116\,l^2\,R^4+104\sqrt{3}\,l\,r\,R^4-156\,r^2\,R^4+32\sqrt{3}\,l\,R^5-288\,r\,R^5-192\,R^6\right)\Big\}$$

$$\left\{\text{X14, 2nd ISOGONIC CENTER, X34, X(4)-BETH CONJUGATE OF X(4),}\right.$$

$$-\frac{1}{3\left(l^2-2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)\left(l^2-r^2-6\,r\,R-4\,R^2\right)^2}$$

$$4\,r^2\left(2\,l^6+2\sqrt{3}\,l^5\,r-4\,l^4\,r^2-4\sqrt{3}\,l^3\,r^3+2\,l^2\,r^4+2\sqrt{3}\,l\,r^5-4\sqrt{3}\,l^5\,R-\right.$$
$$24\,l^4\,r\,R-6\sqrt{3}\,l^3\,r^2\,R+30\,l^2\,r^3\,R+10\sqrt{3}\,l\,r^4\,R-6\,r^5\,R-25\,l^4\,R^2+18\sqrt{3}\,l^3\,r\,R^2+$$
$$124\,l^2\,r^2\,R^2+6\sqrt{3}\,l\,r^3\,R^2-63\,r^4\,R^2+32\sqrt{3}\,l^3\,R^3+204\,l^2\,r\,R^3-48\sqrt{3}\,l\,r^2\,R^3-$$
$$\left.252\,r^3\,R^3+116\,l^2\,R^4-104\sqrt{3}\,l\,r\,R^4-492\,r^2\,R^4-64\sqrt{3}\,l\,R^5-480\,r\,R^5-192\,R^6\right)\Big\}$$

$$\left\{\text{X14, 2nd ISOGONIC CENTER, X35, \{X(1),X(3)\}-HARMONIC CONJUGATE OF X(36),}\right.$$
$$-\left(\left(4\,r^2\left(-4\sqrt{3}\,l^3\,r+8\,l^2\,r^2+4\sqrt{3}\,l\,r^3-2\sqrt{3}\,l^3\,R+8\,l^2\,r\,R+22\sqrt{3}\,l\,r^2\,R-4\,l^2\,R^2+\right.\right.\right.$$
$$\left.\left.\left.32\sqrt{3}\,l\,r\,R^2+5\sqrt{3}\,l\,R^3-3\,r\,R^3-12\,R^4\right)\right)\Big/\left(3\,(2\,r+R)^2\left(l^2-2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)\right)\right)\Big\}$$

$$\left\{\text{X14, 2nd ISOGONIC CENTER, X36, INVERSE-IN-CIRCUMCIRCLE OF INCENTER},\ -\frac{4 r^2 \left(-2 \sqrt{3}\, l^3+4 l^2 r+2 \sqrt{3}\, l r^2-2 l^2 R+6 \sqrt{3}\, l r R+7 \sqrt{3}\, l R^2+3 r R^2+12 R^3\right)}{3 (2 r-R) \left(l^2-2 \sqrt{3}\, l r-r^2-4 r R\right)}\right\}$$

$$\left\{\text{X14, 2nd ISOGONIC CENTER, X37, CrosspointOfIncenterAndCentroid},\ -\left(\left(4 l^2 r^2 \left(2 l^4+4 l^2 r^2+2 r^4-2 \sqrt{3}\, l^3 R+4 l^2 r R+10 \sqrt{3}\, l r^2 R+16 r^3 R-21 l^2 R^2+22 \sqrt{3}\, l r R^2+41 r^2 R^2+36 r R^3\right)\right) \Big/ \left(3 \left(l^2-2 \sqrt{3}\, l r-r^2-4 r R\right) \left(l^2+r^2+4 r R\right)^2\right)\right)\right\}$$

$$\left\{\text{X14, 2nd ISOGONIC CENTER, X38, CROSSPOINT OF X(1) AND X(75)},\ \left(4 r^2 \left(-2 l^6+2 \sqrt{3}\, l^5 r-4 l^4 r^2+4 \sqrt{3}\, l^3 r^3-2 l^2 r^4+2 \sqrt{3}\, l r^5+2 \sqrt{3}\, l^5 R+26 l^4 r R-24 \sqrt{3}\, l^3 r^2 R-16 l^2 r^3 R+22 \sqrt{3}\, l r^4 R+6 r^5 R+21 l^4 R^2-46 \sqrt{3}\, l^3 r R^2-176 l^2 r^2 R^2+98 \sqrt{3}\, l r^3 R^2+75 r^4 R^2-216 l^2 r R^3+168 \sqrt{3}\, l r^2 R^3+312 r^3 R^3+432 r^2 R^4\right)\right) \Big/ \left(3 \left(l^2-2 \sqrt{3}\, l r-r^2-4 r R\right) \left(l^2+r^2-2 r R\right)^2\right)\right\}$$

$$\left\{\text{X14, 2nd ISOGONIC CENTER, X39, BrocardMidpoint},\ -\left(\left(4 l^2 r^2 \left(2 l^8+8 l^6 r^2+12 l^4 r^4+8 l^2 r^6+2 r^8-32 l^6 r R-32 l^4 r^3 R+32 l^2 r^5 R+32 r^7 R-9 l^6 R^2-6 \sqrt{3}\, l^5 r R^2+135 l^4 r^2 R^2+84 \sqrt{3}\, l^3 r^3 R^2-71 l^2 r^4 R^2-6 \sqrt{3}\, l r^5 R^2+201 r^6 R^2+108 l^4 r R^3+48 \sqrt{3}\, l^3 r^2 R^3-392 l^2 r^3 R^3-48 \sqrt{3}\, l r^4 R^3+620 r^5 R^3-432 l^2 r^2 R^4-96 \sqrt{3}\, l r^3 R^4+944 r^4 R^4+576 r^3 R^5\right)\right) \Big/ \left(3 \left(l^2-2 \sqrt{3}\, l r-r^2-4 r R\right) \left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)^2\right)\right)\right\}$$

$$\left\{\text{X14, 2nd ISOGONIC CENTER, X40, BEVAN POINT},\ \frac{4 \left(2 \sqrt{3}\, l^3 r-2 l^2 r^2-3 l^2 r R-3 \sqrt{3}\, l r^2 R+3 l^2 R^2-12 \sqrt{3}\, l r R^2-3 r^2 R^2-12 r R^3\right)}{3 \left(l^2-2 \sqrt{3}\, l r-r^2-4 r R\right)}\right\}$$

$$\left\{\text{X14, 2nd ISOGONIC CENTER, X41, X(6)-CEVA CONJUGATE OF X(31)},\ \left(4 l^2 r^2 \left(6 \sqrt{3}\, l^5 r-18 l^4 r^2-20 \sqrt{3}\, l^3 r^3+12 l^2 r^4+6 \sqrt{3}\, l r^5-2 r^6+4 \sqrt{3}\, l^5 R-24 l^4 r R-88 \sqrt{3}\, l^3 r^2 R+104 l^2 r^3 R+68 \sqrt{3}\, l r^4 R-32 r^5 R-11 l^4 R^2-90 \sqrt{3}\, l^3 r R^2+292 l^2 r^2 R^2+270 \sqrt{3}\, l r^3 R^2-201 r^4 R^2-16 \sqrt{3}\, l^3 R^3+284 l^2 r R^3+432 \sqrt{3}\, l r^2 R^3-620 r^3 R^3+48 l^2 R^4+224 \sqrt{3}\, l r R^4-944 r^2 R^4-576 r R^5\right)\right) \Big/ \left(3 \left(l^2-2 \sqrt{3}\, l r-r^2-4 r R\right) \left(3 l^2 r-r^3+2 l^2 R-8 r^2 R-16 r R^2\right)^2\right)\right\}$$

$$\left\{\text{X14, 2nd ISOGONIC CENTER, X42, CROSSPOINT OF INCENTER AND SYMMEDIAN POINT},\ -\left(\left(4 r^2 \left(2 l^6+2 \sqrt{3}\, l^5 r+4 l^4 r^2+4 \sqrt{3}\, l^3 r^3+2 l^2 r^4+2 \sqrt{3}\, l r^5-8 l^4 r R+8 \sqrt{3}\, l^3 r^2 R-8 l^2 r^3 R+8 \sqrt{3}\, l r^4 R-9 l^4 R^2-14 \sqrt{3}\, l^3 r R^2-28 l^2 r^2 R^2-14 \sqrt{3}\, l r^3 R^2-3 r^4 R^2-56 \sqrt{3}\, l r^2 R^3-24 r^3 R^3-48 r^2 R^4\right)\right) \Big/ \left(3 \left(l^2-2 \sqrt{3}\, l r-r^2-4 r R\right) \left(l^2+r^2-2 r R\right)^2\right)\right)\right\}$$

$$\left\{\text{X14, 2nd ISOGONIC CENTER, X43, X(6)-CEVA CONJUGATE OF X(1)},\ -\left(\left(4 r^2 \left(2 l^6+2 \sqrt{3}\, l^5 r+4 l^4 r^2+4 \sqrt{3}\, l^3 r^3+2 l^2 r^4+2 \sqrt{3}\, l r^5+\sqrt{3}\, l^5 R-29 l^4 r R+2 \sqrt{3}\, l^3 r^2 R-26 l^2 r^3 R+\sqrt{3}\, l r^4 R+3 r^5 R-12 l^4 R^2-20 \sqrt{3}\, l^3 r R^2+44 l^2 r^2 R^2-52 \sqrt{3}\, l r^3 R^2+24 r^4 R^2+144 l^2 r R^3-96 \sqrt{3}\, l r^2 R^3+48 r^3 R^3\right)\right) \Big/ \left(3 \left(l^2+r^2-8 r R\right)^2 \left(l^2-2 \sqrt{3}\, l r-r^2-4 r R\right)\right)\right)\right\}$$

$$\left\{\text{X14, 2nd ISOGONIC CENTER, X44, X(6)-LINE CONJUGATE OF X(1)},\ -\left(\left(4 l^2 r^2 \left(2 l^4+8 \sqrt{3}\, l^3 r-12 l^2 r^2-24 \sqrt{3}\, l r^3+18 r^4+2 \sqrt{3}\, l^3 R-60 l^2 r R-66 \sqrt{3}\, l r^2 R+144 r^3 R-21 l^2 R^2-42 \sqrt{3}\, l r R^2+369 r^2 R^2+324 r R^3\right)\right) \Big/ \left(3 \left(l^2-3 r^2-12 r R\right)^2 \left(l^2-2 \sqrt{3}\, l r-r^2-4 r R\right)\right)\right)\right\}$$

{X14, 2nd ISOGONIC CENTER, X45, X(9)-BETH CONJUGATE OF X(1),

$$-\left(\left(4 l^2 r^2 \left(2 l^4 - 4\sqrt{3}\, l^3 r + 12 l^2 r^2 - 12\sqrt{3}\, l r^3 + 18 r^4 - 4\sqrt{3}\, l^3 R + 12\sqrt{3}\, l r^2 R + 144 r^3 R - 57 l^2 R^2 + 78\sqrt{3}\, l r R^2 + 369 r^2 R^2 + 324 r R^3\right)\right) \Big/ \left(3\left(l^2 - 2\sqrt{3}\, l r - r^2 - 4 r R\right)\left(l^2 + 3 r^2 + 12 r R\right)^2\right)\right)\}$$

{X14, 2nd ISOGONIC CENTER, X46, X(4)-CEVA CONJUGATE OF X(1),

$$-\frac{4 r^2 \left(-2\sqrt{3}\, l^3 r + 2 l^2 r^2 + 2\sqrt{3}\, l^3 R - l^2 r R + \sqrt{3}\, l r^2 R + 2 l^2 R^2 - 7\sqrt{3}\, l R^3 - 3 r R^3 - 12 R^4\right)}{3 (r - R)^2 \left(l^2 - 2\sqrt{3}\, l r - r^2 - 4 r R\right)}\}$$

{X14, 2nd ISOGONIC CENTER, X47, X(110)-BETH CONJUGATE OF X(34),

$$-\frac{1}{3\left(l^2 - 2\sqrt{3}\, l r - r^2 - 4 r R\right)\left(l^2 - 3 r^2 - 6 r R - 2 R^2\right)^2}$$

$$4 r^2 \left(2 l^6 + 6\sqrt{3}\, l^5 r - 12 l^4 r^2 - 20\sqrt{3}\, l^3 r^3 + 18 l^2 r^4 + 6\sqrt{3}\, l r^5 - 24 l^4 r R - 48\sqrt{3}\, l^3 r^2 R + 72 l^2 r^3 R + 48\sqrt{3}\, l r^4 R - 17 l^4 R^2 - 38\sqrt{3}\, l^3 r R^2 + 132 l^2 r^2 R^2 + 130\sqrt{3}\, l r^3 R^2 - 3 r^4 R^2 + 2\sqrt{3}\, l^3 R^3 + 114 l^2 r R^3 + 138\sqrt{3}\, l r^2 R^3 - 30 r^3 R^3 + 44 l^2 R^4 + 52\sqrt{3}\, l r R^4 - 96 r^2 R^4 - 4\sqrt{3}\, l R^5 - 108 r R^5 - 48 R^6\right)\}$$

{X14, 2nd ISOGONIC CENTER, X48, CROSSPOINT OF X(1) AND X(63),

$$\frac{1}{3\left(l^2 - 2\sqrt{3}\, l r - r^2 - 4 r R\right)\left(3 l^2 - r^2 - 6 r R - 8 R^2\right)^2}$$

$$4 l^2 \left(6\sqrt{3}\, l^5 r - 18 l^4 r^2 - 20\sqrt{3}\, l^3 r^3 + 12 l^2 r^4 + 6\sqrt{3}\, l r^5 - 2 r^6 - 48\sqrt{3}\, l^3 r^2 R + 72 l^2 r^3 R + 48\sqrt{3}\, l r^4 R - 24 r^5 R - 3 l^4 R^2 - 34\sqrt{3}\, l^3 r R^2 + 132 l^2 r^2 R^2 + 134\sqrt{3}\, l r^3 R^2 - 113 r^4 R^2 + 48 l^2 r R^3 + 144\sqrt{3}\, l r^2 R^3 - 264 r^3 R^3 + 12 l^2 R^4 + 40\sqrt{3}\, l r R^4 - 308 r^2 R^4 - 144 r R^5\right)\}$$

{X14, 2nd ISOGONIC CENTER, X49, CENTER OF SINE-TRIPLE-ANGLE CIRCLE,

$$\frac{1}{3\left(l^2 - 2\sqrt{3}\, l r - r^2 - 4 r R\right)\left(2 l^2 - 2 r^2 - 8 r R - 7 R^2\right)^2}$$

$$\left(8\sqrt{3}\, l^7 r - 32 l^6 r^2 - 56\sqrt{3}\, l^5 r^3 + 64 l^4 r^4 + 56\sqrt{3}\, l^3 r^5 - 32 l^2 r^6 - 8\sqrt{3}\, l r^7 - 96\sqrt{3}\, l^5 r^2 R + 256 l^4 r^3 R + 320\sqrt{3}\, l^3 r^4 R - 256 l^2 r^5 R - 96\sqrt{3}\, l r^6 R - 3 l^6 R^2 - 62\sqrt{3}\, l^5 r R^2 + 317 l^4 r^2 R^2 + 644\sqrt{3}\, l^3 r^3 R^2 - 829 l^2 r^4 R^2 - 446\sqrt{3}\, l r^5 R^2 + 3 r^6 R^2 + 36 l^4 r R^3 + 496\sqrt{3}\, l^3 r^2 R^3 - 1304 l^2 r^3 R^3 - 1008\sqrt{3}\, l r^4 R^3 + 36 r^5 R^3 + 12 l^4 R^4 + 140\sqrt{3}\, l^3 r R^4 - 896 l^2 r^2 R^4 - 1132\sqrt{3}\, l r^3 R^4 + 156 r^4 R^4 - 96 l^2 r R^5 - 560\sqrt{3}\, l r^2 R^5 + 288 r^3 R^5 + 3 l^2 R^6 - 90\sqrt{3}\, l r R^6 + 189 r^2 R^6 - 12 r R^7\right)\}$$

{X14, 2nd ISOGONIC CENTER, X50, X(74)-CEVA CONJUGATE OF X(184),

$$-\left(\left(4 l^2 r^2 \left(2 l^8 + 8\sqrt{3}\, l^7 r - 24 l^6 r^2 - 56\sqrt{3}\, l^5 r^3 + 76 l^4 r^4 + 56\sqrt{3}\, l^3 r^5 - 24 l^2 r^6 - 8\sqrt{3}\, l r^7 + 2 r^8 - 32 l^6 r R - 96\sqrt{3}\, l^5 r^2 R + 224 l^4 r^3 R + 320\sqrt{3}\, l^3 r^4 R - 224 l^2 r^5 R - 96\sqrt{3}\, l r^6 R + 32 r^7 R - 21 l^6 R^2 - 66\sqrt{3}\, l^5 r R^2 + 363 l^4 r^2 R^2 + 636\sqrt{3}\, l^3 r^3 R^2 - 811 l^2 r^4 R^2 - 450\sqrt{3}\, l r^5 R^2 + 213 r^6 R^2 + 252 l^4 r R^3 + 528\sqrt{3}\, l^3 r^2 R^3 - 1448 l^2 r^3 R^3 - 1040\sqrt{3}\, l r^4 R^3 + 764 r^5 R^3 + 72 l^4 R^4 + 180\sqrt{3}\, l^3 r R^4 - 1368 l^2 r^2 R^4 - 1236\sqrt{3}\, l r^3 R^4 + 1592 r^4 R^4 - 576 l^2 r R^5 - 720\sqrt{3}\, l r^2 R^5 + 1920 r^3 R^5 - 81 l^2 R^6 - 162\sqrt{3}\, l r R^6 + 1233 r^2 R^6 + 324 r R^7\right)\right) \Big/ \left(3\left(l^2 - 2\sqrt{3}\, l r - r^2 - 4 r R\right)\left(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 3 l^2 R^2 + 19 r^2 R^2 + 12 r R^3\right)^2\right)\right)\}$$

{X14, 2nd ISOGONIC CENTER, X51, CENTROID OF ORTHIC TRIANGLE,

$$-\left(\left(\left(-l^2 - 2\sqrt{3}\, l r + r^2 + 4 r R\right)\left(l^4 + 4\sqrt{3}\, l^3 r - 6 l^2 r^2 - 4\sqrt{3}\, l r^3 + r^4 - 8 l^2 r R - 16\sqrt{3}\, l r^2 R + 8 r^3 R - 4 l^2 R^2 - 16\sqrt{3}\, l r R^2 + 20 r^2 R^2 + 16 r R^3\right)\right) \Big/ \left(36 R^2 \left(-l^2 + 2\sqrt{3}\, l r + r^2 + 4 r R\right)\right)\right)\}$$

$$\left\{\text{X14, 2nd ISOGONIC CENTER, X52, ORTHOCENTER OF ORTHIC TRIANGLE}, -\frac{1}{12 R^2 \left(l^2-2\sqrt{3}\, l r-r^2-4 r R\right)}\right.$$
$$\left(-3 l^6+14\sqrt{3}\, l^5 r+45 l^4 r^2-68\sqrt{3}\, l^3 r^3-45 l^2 r^4+14\sqrt{3}\, l r^5+3 r^6+36 l^4 r R-112\sqrt{3}\, l^3 r^2 R-\right.$$
$$216 l^2 r^3 R+112\sqrt{3}\, l r^4 R+36 r^5 R+12 l^4 R^2-64\sqrt{3}\, l^3 r R^2-280 l^2 r^2 R^2+288\sqrt{3}\, l r^3 R^2+$$
$$\left.\left.156 r^4 R^2-96 l^2 r R^3+256\sqrt{3}\, l r^2 R^3+288 r^3 R^3-12 l^2 R^4+72\sqrt{3}\, l r R^4+204 r^2 R^4+48 r R^5\right)\right\}$$

$$\left\{\text{X14, 2nd ISOGONIC CENTER, X53, SYMMEDIAN POINT OF ORTHIC TRIANGLE},\right.$$
$$-\left(\left(4 l^2 r^2\left(2 l^8-2\sqrt{3}\, l^7 r-12 l^6 r^2+14\sqrt{3}\, l^5 r^3+4 l^4 r^4-14\sqrt{3}\, l^3 r^5-12 l^2 r^6+2\sqrt{3}\, l r^7+2 r^8-\right.\right.\right.$$
$$32 l^6 r R+24\sqrt{3}\, l^5 r^2 R+128 l^4 r^3 R-80\sqrt{3}\, l^3 r^4 R-128 l^2 r^5 R+24\sqrt{3}\, l r^6 R+32 r^7 R-$$
$$25 l^6 R^2-2\sqrt{3}\, l^5 r R^2+355 l^4 r^2 R^2-124\sqrt{3}\, l^3 r^3 R^2-611 l^2 r^4 R^2+94\sqrt{3}\, l r^5 R^2+$$
$$217 r^6 R^2+300 l^4 r R^3+16\sqrt{3}\, l^3 r^2 R^3-1464 l^2 r^3 R^3+112\sqrt{3}\, l r^4 R^3+812 r^5 R^3+$$
$$104 l^4 R^4+112\sqrt{3}\, l^3 r R^4-1696 l^2 r^2 R^4-144\sqrt{3}\, l r^3 R^4+1816 r^4 R^4-832 l^2 r R^5-$$
$$\left.\left.448\sqrt{3}\, l r^2 R^5+2432 r^3 R^5-144 l^2 R^6-288\sqrt{3}\, l r R^6+1808 r^2 R^6+576 r R^7\right)\right)\Big/$$
$$\left.\left.\left(3\left(l^2-2\sqrt{3}\, l r-r^2-4 r R\right)\left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-4 l^2 R^2+20 r^2 R^2+16 r R^3\right)^2\right)\right)\right\}$$

$$\left\{\text{X14, 2nd ISOGONIC CENTER, X54, KosnitaPoint}, \frac{1}{3\left(l^2-2\sqrt{3}\, l r-r^2-4 r R\right)\left(2 l^2-2 r^2-8 r R-5 R^2\right)^2}\right.$$
$$\left(8\sqrt{3}\, l^7 r-32 l^6 r^2-56\sqrt{3}\, l^5 r^3+64 l^4 r^4+56\sqrt{3}\, l^3 r^5-32 l^2 r^6-8\sqrt{3}\, l r^7-\right.$$
$$96\sqrt{3}\, l^5 r^2 R+256 l^4 r^3 R+320\sqrt{3}\, l^3 r^4 R-256 l^2 r^5 R-96\sqrt{3}\, l r^6 R-64\sqrt{3}\, l^5 r R^2+$$
$$256 l^4 r^2 R^2+640\sqrt{3}\, l^3 r^3 R^2-768 l^2 r^4 R^2-448\sqrt{3}\, l r^5 R^2+512\sqrt{3}\, l^3 r^2 R^3-1024 l^2 r^3 R^3-$$
$$1024\sqrt{3}\, l r^4 R^3-3 l^4 R^4+164\sqrt{3}\, l^3 r R^4-494 l^2 r^2 R^4-1188\sqrt{3}\, l r^3 R^4-3 r^4 R^4+$$
$$\left.\left.24 l^2 r R^5-656\sqrt{3}\, l r^2 R^5-24 r^3 R^5+12 l^2 R^6-144\sqrt{3}\, l r R^6-60 r^2 R^6-48 r R^7\right)\right\}$$

$$\left\{\text{X14, 2nd ISOGONIC CENTER, X55, INSIMILICENTER(CIRCUMCIRCLE, INCIRCLE)},\right.$$
$$\left.-\frac{r^2\left(\sqrt{3}\, l+r+4 R\right)\left(-4 l^2 r+4\sqrt{3}\, l r^2-4 l^2 R+12\sqrt{3}\, l r R+5\sqrt{3}\, l R^2-3 r R^2-12 R^3\right)}{3(r+R)^2\left(l^2-2\sqrt{3}\, l r-r^2-4 r R\right)}\right\}$$

$$\left\{\text{X14, 2nd ISOGONIC CENTER, X56, EXSIMILICENTER(CIRCUMCIRCLE, INCIRCLE)},\right.$$
$$-\left(\left(r^2\left(-4\sqrt{3}\, l^3 r+8 l^2 r^2+4\sqrt{3}\, l r^3+4\sqrt{3}\, l^3 R-16 l^2 r R+4\sqrt{3}\, l r^2 R+11 l^2 R^2+2\sqrt{3}\, l r R^2+\right.\right.\right.$$
$$\left.\left.\left.9 r^2 R^2-16\sqrt{3}\, l R^3+24 r R^3-48 R^4\right)\right)\Big/\left(3(r-R)^2\left(l^2-2\sqrt{3}\, l r-r^2-4 r R\right)\right)\right)\right\}$$

$$\left\{\text{X14, 2nd ISOGONIC CENTER, X57, ISOGONAL CONJUGATE OF X(9)},\right.$$
$$\left(4 r^2\left(2\sqrt{3}\, l^3 r-2 l^2 r^2-4\sqrt{3}\, l^3 R+5 l^2 r R+\sqrt{3}\, l r^2 R-11 l^2 R^2+8\sqrt{3}\, l r R^2+\right.\right.$$
$$\left.\left.\left.3 r^2 R^2+16\sqrt{3}\, l R^3+24 r R^3+48 R^4\right)\right)\Big/\left(3(r-2 R)^2\left(l^2-2\sqrt{3}\, l r-r^2-4 r R\right)\right)\right\}$$

$$\left\{\text{X14, 2nd ISOGONIC CENTER, X58, ISOGONAL CONJUGATE OF X(10)},\right.$$
$$-\left(\left(4 r^2\left(2 l^6+6\sqrt{3}\, l^5 r-12 l^4 r^2-20\sqrt{3}\, l^3 r^3+18 l^2 r^4+6\sqrt{3}\, l r^5-16 l^4 r R-32\sqrt{3}\, l^3 r^2 R+\right.\right.\right.$$
$$48 l^2 r^3 R+32\sqrt{3}\, l r^4 R-9 l^4 R^2-24\sqrt{3}\, l^3 r R^2+74 l^2 r^2 R^2+56\sqrt{3}\, l r^3 R^2+3 r^4 R^2+$$
$$\left.\left.\left.36 l^2 r R^3+24\sqrt{3}\, l r^2 R^3+12 r^3 R^3\right)\right)\Big/\left(3\left(l^2-3 r^2-4 r R\right)^2\left(l^2-2\sqrt{3}\, l r-r^2-4 r R\right)\right)\right)\right\}$$

$$\left\{\text{X14, 2nd ISOGONIC CENTER, X59, ISOGONAL CONJUGATE OF X(11)},\right.$$
$$-\frac{1}{3(2 r-R)\left(l^2-2\sqrt{3}\, l r-r^2-4 r R\right)\left(l^2-r^2-5 r R-4 R^2\right)^2} r^2\left(-\sqrt{3}\, l+r+4 R\right)$$
$$\left(4 l^6-4\sqrt{3}\, l^5 r-32 l^4 r^2+28 l^2 r^4+4\sqrt{3}\, l r^5+8\sqrt{3}\, l^5 R-52 l^4 r R-12\sqrt{3}\, l^3 r^2 R+172 l^2 r^3 R+\right.$$
$$44\sqrt{3}\, l r^4 R-14 l^4 R^2-42\sqrt{3}\, l^3 r R^2+306 l^2 r^2 R^2+166\sqrt{3}\, l r^3 R^2-57\sqrt{3}\, l^3 R^3+91 l^2 r R^3+$$
$$\left.\left.247\sqrt{3}\, l r^2 R^3+3 r^3 R^3-44 l^2 R^4+152\sqrt{3}\, l r R^4+36 r^2 R^4+112\sqrt{3}\, l R^5+144 r R^5+192 R^6\right)\right\}$$

$$\left\{\text{X14, 2nd ISOGONIC CENTER, X60, ISOGONAL CONJUGATE OF X(12)},\right.$$
$$-\left(\left(r^2\left(-8\sqrt{3}\,l^7 r+32 l^6 r^2+56\sqrt{3}\,l^5 r^3-64 l^4 r^4-56\sqrt{3}\,l^3 r^5+32 l^2 r^6+8\sqrt{3}\,l r^7-4\sqrt{3}\,l^7 R+\right.\right.\right.$$
$$32 l^6 r R+132\sqrt{3}\,l^5 r^2 R-256 l^4 r^3 R-300\sqrt{3}\,l^3 r^4 R+224 l^2 r^5 R+76\sqrt{3}\,l r^6 R+8 l^6 R^2+$$
$$96\sqrt{3}\,l^5 r R^2-432 l^4 r^2 R^2-640\sqrt{3}\,l^3 r^3 R^2+712 l^2 r^4 R^2+288\sqrt{3}\,l r^5 R^2+14\sqrt{3}\,l^5 R^3-$$
$$262 l^4 r R^3-596\sqrt{3}\,l^3 r^2 R^3+1204 l^2 r^3 R^3+542\sqrt{3}\,l r^4 R^3-6 r^5 R^3-39 l^4 R^4-196\sqrt{3}\,l^3 r R^4+$$
$$\left.\left.1082 l^2 r^2 R^4+516\sqrt{3}\,l r^3 R^4-39 r^4 R^4+384 l^2 r R^5+200\sqrt{3}\,l r^2 R^5-72 r^3 R^5-48 r^2 R^6\right)\right)\Big/$$
$$\left.\left.\left(3\left(l^2-2\sqrt{3}\,l r-r^2-4 r R\right)\left(2 l^2 r-2 r^3+l^2 R-7 r^2 R-7 r R^2\right)^2\right)\right)\right\}$$

$$\left\{\text{X14, 2nd ISOGONIC CENTER, X61, ISOGONAL CONJUGATE OF X(17)},\right.$$
$$\left.-\frac{16 l^2 r^2\left(4\sqrt{3}\,l^3 r+8 l^2 r^2-4\sqrt{3}\,l r^3-16\sqrt{3}\,l r^2 R-3 l^2 R^2-18\sqrt{3}\,l r R^2+3 r^2 R^2+12 r R^3\right)}{\left(3 l^2+2\sqrt{3}\,l r-3 r^2-12 r R\right)^2\left(l^2-2\sqrt{3}\,l r-r^2-4 r R\right)}\right\}$$

$$\left\{\text{X14, 2nd ISOGONIC CENTER, X62, ISOGONAL CONJUGATE OF X(18)},\right.$$
$$\left.-\frac{16 l^2 r^2\left(3 l^4-10 l^2 r^2+3 r^4-24 l^2 r R+24 r^3 R-12 l^2 R^2+60 r^2 R^2+48 r R^3\right)}{\left(3 l^2-2\sqrt{3}\,l r-3 r^2-12 r R\right)^2\left(l^2-2\sqrt{3}\,l r-r^2-4 r R\right)}\right\}$$

$$\left\{\text{X14, 2nd ISOGONIC CENTER, X63, ISOGONAL CONJUGATE OF X(19)},\right.$$
$$\left(8\sqrt{3}\,l^3 r^3-8 l^2 r^4+6 l^4 r R-2\sqrt{3}\,l^3 r^2 R-22 l^2 r^3 R+2\sqrt{3}\,l r^4 R+3 l^4 R^2-4\sqrt{3}\,l^3 r R^2-\right.$$
$$\left.62 l^2 r^2 R^2+16\sqrt{3}\,l r^3 R^2+3 r^4 R^2-48 l^2 r R^3+32\sqrt{3}\,l r^2 R^3+24 r^3 R^3+48 r^2 R^4\right)\Big/$$
$$\left.\left(3(r+R)^2\left(l^2-2\sqrt{3}\,l r-r^2-4 r R\right)\right)\right\}$$

$$\left\{\text{X14, 2nd ISOGONIC CENTER, X64, ISOGONAL CONJUGATE OF X(20)},\right.$$
$$\frac{1}{3(l-r-2R)^2(l+r+2R)^2\left(l^2-2\sqrt{3}\,l r-r^2-4 r R\right)}$$
$$4\left(2\sqrt{3}\,l^7 r-2 l^6 r^2-2\sqrt{3}\,l^5 r^3+4 l^4 r^4+2\sqrt{3}\,l^3 r^5-2 l^2 r^6-2\sqrt{3}\,l r^7-24\sqrt{3}\,l^5 r^2 R+\right.$$
$$16 l^4 r^3 R+32\sqrt{3}\,l^3 r^4 R-16 l^2 r^5 R-24\sqrt{3}\,l r^6 R+9 l^6 R^2-46\sqrt{3}\,l^5 r R^2-14 l^4 r^2 R^2+$$
$$166\sqrt{3}\,l^3 r^3 R^2-18 l^2 r^4 R^2-142\sqrt{3}\,l r^5 R^2-9 r^6 R^2-108 l^4 r R^3+368\sqrt{3}\,l^3 r^2 R^3+164 l^2 r^3 R^3-$$
$$496\sqrt{3}\,l r^4 R^3-108 r^5 R^3-84 l^4 R^4+296\sqrt{3}\,l^3 r R^4+592 l^2 r^2 R^4-1032\sqrt{3}\,l r^3 R^4-516 r^4 R^4+$$
$$\left.672 l^2 r R^5-1184\sqrt{3}\,l r^2 R^5-1248 r^3 R^5+192 l^2 R^6-576\sqrt{3}\,l r R^6-1536 r^2 R^6-768 r R^7\right)\Big\}$$

$$\left\{\text{X14, 2nd ISOGONIC CENTER, X65, ORTHOCENTER OF THE INTOUCH TRIANGLE},\right.$$
$$\left.\frac{r^2\left(-4\sqrt{3}\,l^3-6 l^2 r+8\sqrt{3}\,l r^2+6 r^3-11 l^2 R+18\sqrt{3}\,l r R+39 r^2 R+16\sqrt{3}\,l R^2+72 r R^2+48 R^3\right)}{3 R\left(l^2-2\sqrt{3}\,l r-r^2-4 r R\right)}\right\}$$

$$\Big\{\text{X14, 2nd ISOGONIC CENTER, X66, ISOGONAL CONJUGATE OF X(22)},$$
$$-\Big(\Big(2\sqrt{3}\,l^{11}r-16\,l^{10}r^2-2\sqrt{3}\,l^9r^3+64\,l^8r^4-4\sqrt{3}\,l^7r^5-96\,l^6r^6+4\sqrt{3}\,l^5r^7+64\,l^4r^8+$$
$$2\sqrt{3}\,l^3r^9-16\,l^2r^{10}-2\sqrt{3}\,l\,r^{11}-40\sqrt{3}\,l^9r^2R+256\,l^8r^3R+64\sqrt{3}\,l^7r^4R-$$
$$768\,l^6r^5R-48\sqrt{3}\,l^5r^6R+768\,l^4r^7R+64\sqrt{3}\,l^3r^8R-256\,l^2r^9R-40\sqrt{3}\,l\,r^{10}R+$$
$$3\,l^{10}R^2-22\sqrt{3}\,l^9rR^2+149\,l^8r^2R^2+336\sqrt{3}\,l^7r^3R^2-1998\,l^6r^4R^2-564\sqrt{3}\,l^5r^5R^2+$$
$$3534\,l^4r^6R^2+592\sqrt{3}\,l^3r^7R^2-1685\,l^2r^8R^2-342\sqrt{3}\,l\,r^9R^2-3\,r^{10}R^2-60\,l^8rR^3+$$
$$352\sqrt{3}\,l^7r^2R^3-1728\,l^6r^3R^3-1760\sqrt{3}\,l^5r^4R^3+7672\,l^4r^5R^3+2528\sqrt{3}\,l^3r^6R^3-$$
$$5824\,l^2r^7R^3-1632\sqrt{3}\,l\,r^8R^3-60\,r^9R^3-12\,l^8R^4+56\sqrt{3}\,l^7rR^4-64\,l^6r^2R^4-$$
$$2024\sqrt{3}\,l^5r^3R^4+7544\,l^4r^4R^4+5544\sqrt{3}\,l^3r^5R^4-11\,072\,l^2r^6R^4-4728\sqrt{3}\,l\,r^7R^4-$$
$$492\,r^8R^4+192\,l^6rR^5-672\sqrt{3}\,l^5r^2R^5+2240\,l^4r^3R^5+5952\sqrt{3}\,l^3r^4R^5-10\,816\,l^2r^5R^5-$$
$$8352\sqrt{3}\,l\,r^6R^5-2112\,r^7R^5-432\,l^4r^2R^6+2400\sqrt{3}\,l^3r^3R^6-4048\,l^2r^4R^6-$$
$$8320\sqrt{3}\,l\,r^5R^6-4992\,r^6R^6+192\,l^2r^3R^7-3584\sqrt{3}\,l\,r^4R^7-6144\,r^5R^7-3072\,r^4R^8\Big)\Big/$$
$$\Big(3\,(l-r-2R)^2\,(l+r+2R)^2\,\left(l^2-r^2-4rR\right)^2\left(l^2-2\sqrt{3}\,l\,r-r^2-4rR\right)\Big)\Big)\Big\}$$

$$\Big\{\text{X14, 2nd ISOGONIC CENTER, X67, ISOGONAL CONJUGATE OF X(23)},$$
$$\Big(3\,l^{10}-6\sqrt{3}\,l^9r+29\,l^8r^2-102\,l^6r^4+12\sqrt{3}\,l^5r^5+102\,l^4r^6-29\,l^2r^8-6\sqrt{3}\,l\,r^9-3\,r^{10}-60\,l^8rR+$$
$$96\sqrt{3}\,l^7r^2R-288\,l^6r^3R-96\sqrt{3}\,l^5r^4R+696\,l^4r^5R+96\sqrt{3}\,l^3r^6R-288\,l^2r^7R-96\sqrt{3}\,l\,r^8R-$$
$$60\,r^9R-12\,l^8R^2+24\sqrt{3}\,l^7rR^2+96\,l^6r^2R^2-360\sqrt{3}\,l^5r^3R^2+1464\,l^4r^4R^2+552\sqrt{3}\,l^3r^5R^2-$$
$$1056\,l^2r^6R^2-600\sqrt{3}\,l\,r^7R^2-492\,r^8R^2+192\,l^6rR^3-288\sqrt{3}\,l^5r^2R^3+960\,l^4r^3R^3+$$
$$960\sqrt{3}\,l^3r^4R^3-1856\,l^2r^5R^3-1824\sqrt{3}\,l\,r^6R^3-2112\,r^7R^3-180\,l^4r^2R^4+504\sqrt{3}\,l^3r^3R^4-$$
$$1740\,l^2r^4R^4-2688\sqrt{3}\,l\,r^5R^4-4992\,r^6R^4-816\,l^2r^3R^5-1536\sqrt{3}\,l\,r^4R^5-6144\,r^5R^5-3072\,r^4R^6\Big)\Big/$$
$$\Big(3\left(l^2-r^2-4rR\right)^2\left(l^2-2\sqrt{3}\,l\,r-r^2-4rR\right)\left(2\,l^2-2\,r^2-8rR-9R^2\right)\Big)\Big\}$$

$$\Big\{\text{X14, 2nd ISOGONIC CENTER, X68, PRASOLOV POINT},$$
$$-\frac{1}{3\,(l-r-2R)^2\,(l+r+2R)^2\left(l^2-2\sqrt{3}\,l\,r-r^2-4rR\right)}$$
$$\Big(2\sqrt{3}\,l^7r-16\,l^6r^2+2\sqrt{3}\,l^5r^3+32\,l^4r^4-2\sqrt{3}\,l^3r^5-16\,l^2r^6-2\sqrt{3}\,l\,r^7-24\sqrt{3}\,l^5r^2R+$$
$$128\,l^4r^3R+16\sqrt{3}\,l^3r^4R-128\,l^2r^5R-24\sqrt{3}\,l\,r^6R-3\,l^6R^2-18\sqrt{3}\,l^5rR^2+149\,l^4r^2R^2+$$
$$76\sqrt{3}\,l^3r^3R^2-405\,l^2r^4R^2-114\sqrt{3}\,l\,r^5R^2+3\,r^6R^2+36\,l^4rR^3+144\sqrt{3}\,l^3r^2R^3-$$
$$632\,l^2r^3R^3-272\sqrt{3}\,l\,r^4R^3+36\,r^5R^3+12\,l^4R^4+64\sqrt{3}\,l^3rR^4-424\,l^2r^2R^4-352\sqrt{3}\,l\,r^3R^4+$$
$$156\,r^4R^4-96\,l^2rR^5-256\sqrt{3}\,l\,r^2R^5+288\,r^3R^5-12\,l^2R^6-72\sqrt{3}\,l\,rR^6+204\,r^2R^6+48\,rR^7\Big)\Big\}$$

$$\Big\{\text{X14, 2nd ISOGONIC CENTER, X69, SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},$$
$$\frac{1}{3\left(l^2-r^2-4rR\right)^2\left(l^2-2\sqrt{3}\,l\,r-r^2-4rR\right)}$$
$$\Big(3\,l^8-4\sqrt{3}\,l^7r+16\,l^6r^2-4\sqrt{3}\,l^5r^3-38\,l^4r^4+4\sqrt{3}\,l^3r^5+16\,l^2r^6+4\sqrt{3}\,l\,r^7+3\,r^8-48\,l^6rR+$$
$$48\sqrt{3}\,l^5r^2R-80\,l^4r^3R-32\sqrt{3}\,l^3r^4R+80\,l^2r^5R+48\sqrt{3}\,l\,r^6R+48\,r^7R+96\sqrt{3}\,l^3r^3R^2+$$
$$160\,l^2r^4R^2+192\sqrt{3}\,l\,r^5R^2+288\,r^6R^2+384\,l^2r^3R^3+256\sqrt{3}\,l\,r^4R^3+768\,r^5R^3+768\,r^4R^4\Big)\Big\}$$

$$\Big\{\text{X14, 2nd ISOGONIC CENTER, X70, ISOGONAL CONJUGATE OF X(26)},$$
$$-\Big(\Big(2\sqrt{3}\,l^{11}r-16\,l^{10}r^2-2\sqrt{3}\,l^9r^3+64\,l^8r^4-4\sqrt{3}\,l^7r^5-96\,l^6r^6+4\sqrt{3}\,l^5r^7+64\,l^4r^8+$$
$$2\sqrt{3}\,l^3r^9-16\,l^2r^{10}-2\sqrt{3}\,l\,r^{11}-40\sqrt{3}\,l^9r^2R+256\,l^8r^3R+64\sqrt{3}\,l^7r^4R-768\,l^6r^5R-$$
$$48\sqrt{3}\,l^5r^6R+768\,l^4r^7R+64\sqrt{3}\,l^3r^8R-256\,l^2r^9R-40\sqrt{3}\,l\,r^{10}R-28\sqrt{3}\,l^9rR^2+$$
$$216\,l^8r^2R^2+336\sqrt{3}\,l^7r^3R^2-2184\,l^6r^4R^2-552\sqrt{3}\,l^5r^5R^2+3720\,l^4r^6R^2+592\sqrt{3}\,l^3r^7R^2-$$
$$1752\,l^2r^8R^2-348\sqrt{3}\,l\,r^9R^2+448\sqrt{3}\,l^7r^2R^3-2592\,l^6r^3R^3-1856\sqrt{3}\,l^5r^4R^3+9280\,l^4r^5R^3+$$
$$2624\sqrt{3}\,l^3r^6R^3-6688\,l^2r^7R^3-1728\sqrt{3}\,l\,r^8R^3+3\,l^8R^4+142\sqrt{3}\,l^7rR^4-1064\,l^6r^2R^4-$$
$$2722\sqrt{3}\,l^5r^3R^4+12490\,l^4r^4R^4+6434\sqrt{3}\,l^3r^5R^4-15528\,l^2r^6R^4-5390\sqrt{3}\,l\,r^7R^4+3\,r^8R^4-$$
$$48\,l^6rR^5-1704\sqrt{3}\,l^5r^2R^5+8560\,l^4r^3R^5+9008\sqrt{3}\,l^3r^4R^5-22384\,l^2r^5R^5-10920\sqrt{3}\,l\,r^6R^5+$$
$$48\,r^7R^5-18\,l^6R^6-328\sqrt{3}\,l^5rR^6+2454\,l^4r^2R^6+6944\sqrt{3}\,l^3r^3R^6-19574\,l^2r^4R^6-$$
$$14312\sqrt{3}\,l\,r^5R^6+306\,r^6R^6+216\,l^4rR^7+2624\sqrt{3}\,l^3r^2R^7-9648\,l^2r^3R^7-11712\sqrt{3}\,l\,r^4R^7+$$
$$984\,r^5R^7+27\,l^4R^8+356\sqrt{3}\,l^3rR^8-2290\,l^2r^2R^8-5604\sqrt{3}\,l\,r^3R^8+1659\,r^4R^8-$$
$$216\,l^2rR^9-1424\sqrt{3}\,l\,r^2R^9+1368\,r^3R^9-12\,l^2R^{10}-144\sqrt{3}\,l\,rR^{10}+444\,r^2R^{10}+48\,rR^{11}\Big)\Big/$$
$$\Big(3\left(l^2-2\sqrt{3}\,l\,r-r^2-4\,rR\right)\left(l^4-2\,l^2r^2+r^4-8\,l^2rR+8\,r^3R-6\,l^2R^2+22\,r^2R^2+24\,rR^3+7\,R^4\right)^2\Big)\Big)\Big\}$$

$$\Big\{\text{X14, 2nd ISOGONIC CENTER, X71, ISOGONAL CONJUGATE OF X(27)},$$
$$\frac{1}{3\left(l^2-2\sqrt{3}\,l\,r-r^2-4\,rR\right)\left(l^2+r^2+6\,rR+8\,R^2\right)^2}$$
$$4\,l^2\Big(2\sqrt{3}\,l^5r-2\,l^4r^2+4\sqrt{3}\,l^3r^3-4\,l^2r^4+2\sqrt{3}\,l\,r^5-2\,r^6+8\sqrt{3}\,l^3r^2R-24\,l^2r^3R+$$
$$8\sqrt{3}\,l\,r^4R-24\,r^5R+9\,l^4R^2-6\sqrt{3}\,l^3rR^2-56\,l^2r^2R^2-6\sqrt{3}\,l\,r^3R^2-113\,r^4R^2-$$
$$48\,l^2rR^3-56\sqrt{3}\,l\,r^2R^3-264\,r^3R^3+12\,l^2R^4-56\sqrt{3}\,l\,rR^4-308\,r^2R^4-144\,rR^5\Big)\Big\}$$

$$\Big\{\text{X14, 2nd ISOGONIC CENTER, X72, ISOGONAL CONJUGATE OF X(28)},$$
$$\Big(3\,l^4r-2\sqrt{3}\,l^3r^2-6\,l^2r^3+10\sqrt{3}\,l\,r^4+3\,r^5+3\,l^4R-4\sqrt{3}\,l^3rR-35\,l^2r^2R+42\sqrt{3}\,l\,r^3R+$$
$$24\,r^4R-48\,l^2rR^2+44\sqrt{3}\,l\,r^2R^2+60\,r^3R^2+48\,r^2R^3\Big)\Big/\Big(3R\left(l^2-2\sqrt{3}\,l\,r-r^2-4\,rR\right)\Big)\Big\}$$

$$\Big\{\text{X14, 2nd ISOGONIC CENTER, X73, CROSSPOINT OF INCENTER AND CIRCUMCENTER},$$
$$-\frac{1}{3\left(l^2-2\sqrt{3}\,l\,r-r^2-4\,rR\right)\left(l^2+r^2-2\,rR-4\,R^2\right)^2}$$
$$4\,r^2\Big(2\,l^6+2\sqrt{3}\,l^5r+4\,l^4r^2+4\sqrt{3}\,l^3r^3+2\,l^2r^4+2\sqrt{3}\,l\,r^5-4\sqrt{3}\,l^5R-8\,l^4rR-8\,l^2r^3R+$$
$$4\sqrt{3}\,l\,r^4R-25\,l^4R^2-2\sqrt{3}\,l^3rR^2-32\,l^2r^2R^2-2\sqrt{3}\,l\,r^3R^2+9\,r^4R^2+32\sqrt{3}\,l^3R^3+$$
$$44\,l^2rR^3+60\,r^3R^3+116\,l^2R^4-24\sqrt{3}\,l\,rR^4+84\,r^2R^4-64\sqrt{3}\,l\,R^5-96\,rR^5-192\,R^6\Big)\Big\}$$

$$\Big\{\text{X14, 2nd ISOGONIC CENTER, X74, ISOGONAL CONJUGATE OF EULER INFINITY POINT},$$
$$\Big(12\sqrt{3}\,l^5r-16\,l^4r^2-8\sqrt{3}\,l^3r^3+16\,l^2r^4+12\sqrt{3}\,l\,r^5-96\sqrt{3}\,l^3r^2R+64\,l^2r^3R+$$
$$96\sqrt{3}\,l\,r^4R+27\,l^4R^2-156\sqrt{3}\,l^3rR^2-18\,l^2r^2R^2+348\sqrt{3}\,l\,r^3R^2+27\,r^4R^2-$$
$$216\,l^2rR^3+624\sqrt{3}\,l\,r^2R^3+216\,r^3R^3-108\,l^2R^4+432\sqrt{3}\,l\,rR^4+540\,r^2R^4+432\,rR^5\Big)\Big/$$
$$\Big(3\left(l^2-2\sqrt{3}\,l\,r-r^2-4\,rR\right)\left(2\,l^2-2\,r^2-8\,rR-9\,R^2\right)\Big)\Big\}$$

$$\Big\{\text{X14, 2nd ISOGONIC CENTER, X75,}$$
$$\text{ISOTOMIC CONJUGATE OF INCENTER},\ \frac{1}{3\left(l^2-2\sqrt{3}\,l\,r-r^2-4\,rR\right)\left(l^2+r^2+4\,rR\right)^2}$$
$$\Big(3\,l^8-4\sqrt{3}\,l^7r+4\,l^6r^2-4\sqrt{3}\,l^5r^3+2\,l^4r^4+4\sqrt{3}\,l^3r^5+4\,l^2r^6+$$
$$4\sqrt{3}\,l\,r^7+3\,r^8-48\,l^6rR+64\sqrt{3}\,l^5r^2R+32\,l^4r^3R-80\sqrt{3}\,l^3r^4R-64\,l^2r^5R+$$
$$48\sqrt{3}\,l\,r^6R+48\,r^7R+96\,l^4r^2R^2-96\sqrt{3}\,l^3r^3R^2-416\,l^2r^4R^2+$$
$$192\sqrt{3}\,l\,r^5R^2+288\,r^6R^2-384\,l^2r^3R^3+256\sqrt{3}\,l\,r^4R^3+768\,r^5R^3+768\,r^4R^4\Big)\Big\}$$

$$\left\{\text{X14, 2nd ISOGONIC CENTER, X76, 3rd BROCARD POINT},\ \left(\left(3 l^2-2\sqrt{3}\, l r-3 r^2-12 r R\right)^2\left(l^8+4 l^6 r^2+6 l^4 r^4+4 l^2 r^6+r^8-16 l^6 r R-16 l^4 r^3 R+16 l^2 r^5 R+16 r^7 R+32 l^2 r^4 R^2+96 r^6 R^2+128 l^2 r^3 R^3+256 r^5 R^3+256 r^4 R^4\right)\right)\Big/\left(9\left(l^2-2\sqrt{3}\, l r-r^2-4 r R\right)\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)^2\right)\right\}$$

$$\left\{\text{X14, 2nd ISOGONIC CENTER, X77, ISOGONAL CONJUGATE OF X(33)},\ \frac{1}{3\left(l^2-2\sqrt{3}\, l r-r^2-4 r R\right)\left(l^2-r R-4 R^2\right)^2}\ r^2\left(-8 l^6-8\sqrt{3}\, l^5 r+18\sqrt{3}\, l^5 R+22 l^4 r R-2\sqrt{3}\, l^3 r^2 R-6 l^2 r^3 R+115 l^4 R^2-24\sqrt{3}\, l^3 r R^2-62 l^2 r^2 R^2+4\sqrt{3}\, l r^3 R^2+3 r^4 R^2-136\sqrt{3}\, l^3 R^3-280 l^2 r R^3+48\sqrt{3}\, l r^2 R^3+48 r^3 R^3-512 l^2 R^4+192\sqrt{3}\, l r R^4+288 r^2 R^4+256\sqrt{3}\, l R^5+768 r R^5+768 R^6\right)\right\}$$

$$\left\{\text{X14, 2nd ISOGONIC CENTER, X78, ISOGONAL CONJUGATE OF X(34)},\ \left(-8 l^2 r^4-8\sqrt{3}\, l r^5-2\sqrt{3}\, l^3 r^2 R+10 l^2 r^3 R-14\sqrt{3}\, l r^4 R+6 r^5 R+3 l^4 R^2-4\sqrt{3}\, l^3 r R^2-2 l^2 r^2 R^2+32\sqrt{3}\, l r^3 R^2+39 r^4 R^2-48 l^2 r R^3+56\sqrt{3}\, l r^2 R^3+72 r^3 R^3+48 r^2 R^4\right)\Big/\left(3 (r-R)^2\left(l^2-2\sqrt{3}\, l r-r^2-4 r R\right)\right)\right\}$$

$$\left\{\text{X14, 2nd ISOGONIC CENTER, X79, ISOGONAL CONJUGATE OF X(35)},\ \frac{4 r^2\left(\sqrt{3}\, l+r+3 R\right)^2\left(-2 l^2+2\sqrt{3}\, l r-\sqrt{3}\, l R+3 r R+12 R^2\right)}{3 (2 r+3 R)^2\left(l^2-2\sqrt{3}\, l r-r^2-4 r R\right)}\right\}$$

$$\left\{\text{X14, 2nd ISOGONIC CENTER, X80, REFLECTION OF INCENTER IN FEUERBACH POINT},\ -\frac{4 r^2\left(\sqrt{3}\, l-3 r-3 R\right)^2\left(\sqrt{3}\, l+r+4 R\right)}{9 (2 r-R)\left(l^2-2\sqrt{3}\, l r-r^2-4 r R\right)}\right\}$$

$$\left\{\text{X14, 2nd ISOGONIC CENTER, X81, CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},\ -\left(\left(r^2\left(8 l^6+16\sqrt{3}\, l^5 r-16 l^4 r^2-16\sqrt{3}\, l^3 r^3+8 l^2 r^4-2\sqrt{3}\, l^5 R-16 l^4 r R-36\sqrt{3}\, l^3 r^2 R+16 l^2 r^3 R-2\sqrt{3}\, l r^4 R-39 l^4 R^2-56\sqrt{3}\, l^3 r R^2+14 l^2 r^2 R^2-16\sqrt{3}\, l r^3 R^2-3 r^4 R^2-48 l^2 r R^3-32\sqrt{3}\, l r^2 R^3-24 r^3 R^3-48 r^2 R^4\right)\right)\Big/\left(3\left(l^2-2\sqrt{3}\, l r-r^2-4 r R\right)\left(l^2-r^2-r R\right)^2\right)\right)\right\}$$

$$\left\{\text{X14, 2nd ISOGONIC CENTER, X82, ISOGONAL CONJUGATE OF X(38)},\ -\left(\left(r^2\left(8 l^{10}+24\sqrt{3}\, l^9 r-64 l^8 r^2-128\sqrt{3}\, l^7 r^3+176 l^6 r^4+208\sqrt{3}\, l^5 r^5-192 l^4 r^6-128\sqrt{3}\, l^3 r^7+72 l^2 r^8+24\sqrt{3}\, l r^9-2\sqrt{3}\, l^9 R-138 l^8 r R-388\sqrt{3}\, l^7 r^2 R+892 l^6 r^3 R+1408\sqrt{3}\, l^5 r^4 R-1648 l^4 r^5 R-1404\sqrt{3}\, l^3 r^6 R+900 l^2 r^7 R+386\sqrt{3}\, l r^8 R-6 r^9 R-39 l^8 R^2-48\sqrt{3}\, l^7 r R^2+1216 l^6 r^2 R^2+2688\sqrt{3}\, l^5 r^3 R^2-4870 l^4 r^4 R^2-5488\sqrt{3}\, l^3 r^5 R^2+4376 l^2 r^6 R^2+2400\sqrt{3}\, l r^7 R^2-123 r^8 R^2+576 l^6 r R^3+784\sqrt{3}\, l^5 r^2 R^3-6048 l^4 r^3 R^3-8496\sqrt{3}\, l^3 r^4 R^3+10672 l^2 r^5 R^3+7104\sqrt{3}\, l r^6 R^3-1008 r^7 R^3-3456 l^4 r^2 R^4-3552\sqrt{3}\, l^3 r^3 R^4+14144 l^2 r^4 R^4+9728\sqrt{3}\, l r^5 R^4-4128 r^6 R^4+9216 l^2 r^3 R^5+4608\sqrt{3}\, l r^4 R^5-8448 r^5 R^5-6912 r^4 R^6\right)\right)\Big/\left(3\left(l^2-2\sqrt{3}\, l r-r^2-4 r R\right)\left(l^4-4 l^2 r^2+3 r^4-9 l^2 r R+19 r^3 R+28 r^2 R^2\right)^2\right)\right)\right\}$$

$$\left\{\text{X14, 2nd ISOGONIC CENTER, X83, CEVAPOINT OF CENTROID AND SYMMEDIAN POINT},\ \left(\left(3 l^2+2\sqrt{3}\, l r-3 r^2-12 r R\right)^2\left(l^8-60 l^6 r^2+134 l^4 r^4-60 l^2 r^6+r^8-16 l^6 r R+496 l^4 r^3 R-496 l^2 r^5 R+16 r^7 R+288 l^4 r^2 R^2-1280 l^2 r^4 R^2+96 r^6 R^2-1024 l^2 r^3 R^3+256 r^5 R^3+256 r^4 R^4\right)\right)\Big/\left(9\left(l^2-2\sqrt{3}\, l r-r^2-4 r R\right)\left(5 l^4-6 l^2 r^2+5 r^4-40 l^2 r R+40 r^3 R+80 r^2 R^2\right)^2\right)\right\}$$

$$\{\text{X14, 2nd ISOGONIC CENTER, X84, ISOGONAL CONJUGATE OF X(40)},$$
$$\left(4\left(2\sqrt{3}\,l^3 r^3 - 2 l^2 r^4 + 3 l^4 r R - 9\sqrt{3}\,l^3 r^2 R + 4\sqrt{3}\,l r^4 R - 3 l^4 R^2 + 6\sqrt{3}\,l^3 r R^2 - 15 l^2 r^2 R^2 + 16\sqrt{3}\,l r^3 R^2 + 12 l^2 r R^3 + 12\sqrt{3}\,l r^2 R^3 + 12 l^2 R^4 - 24\sqrt{3}\,l r R^4 - 12 r^2 R^4 - 48 r R^5\right)\right) \Big/ \left(3 r^2 \left(l^2 - 2\sqrt{3}\,l r - r^2 - 4 r R\right)\right)\}$$

$$\{\text{X14, 2nd ISOGONIC CENTER, X85, ISOTOMIC CONJUGATE OF X(9)},$$
$$\frac{1}{3\left(l^2 - 2\sqrt{3}\,l r - r^2 - 4 r R\right)\left(l^2 + r^2 + 8 r R + 16 R^2\right)^2}$$
$$\left(3 l^8 - 4\sqrt{3}\,l^7 r + 4 l^6 r^2 - 4\sqrt{3}\,l^5 r^3 + 2 l^4 r^4 + 4\sqrt{3}\,l^3 r^5 + 4 l^2 r^6 + 4\sqrt{3}\,l r^7 + 3 r^8 - 72 l^6 r R + 64\sqrt{3}\,l^5 r^2 R + 40 l^4 r^3 R - 48\sqrt{3}\,l^3 r^4 R - 8 l^2 r^5 R + 80\sqrt{3}\,l r^6 R + 72 r^7 R + 32\sqrt{3}\,l^5 r R^2 + 176 l^4 r^2 R^2 - 576\sqrt{3}\,l^3 r^3 R^2 - 480 l^2 r^4 R^2 + 640\sqrt{3}\,l r^5 R^2 + 720 r^6 R^2 + 192 l^4 r R^3 - 1280\sqrt{3}\,l^3 r^2 R^3 - 2432 l^2 r^3 R^3 + 2560\sqrt{3}\,l r^4 R^3 + 3840 r^5 R^3 - 3584 l^2 r^2 R^4 + 5120\sqrt{3}\,l r^3 R^4 + 11520 r^4 R^4 + 4096\sqrt{3}\,l r^2 R^5 + 18432 r^3 R^5 + 12288 r^2 R^6\right)\}$$

$$\{\text{X14, 2nd ISOGONIC CENTER, X86,}$$
$$\text{CEVAPOINT OF INCENTER AND CENTROID, } \frac{1}{3\left(l^2 - 2\sqrt{3}\,l r - r^2 - 4 r R\right)\left(5 l^2 + r^2 + 4 r R\right)^2}$$
$$\left(3 l^8 + 4\sqrt{3}\,l^7 r - 164 l^6 r^2 - 116\sqrt{3}\,l^5 r^3 - 14 l^4 r^4 + 12\sqrt{3}\,l^3 r^5 + 28 l^2 r^6 + 4\sqrt{3}\,l r^7 + 3 r^8 - 16\sqrt{3}\,l^5 r^2 R - 80 l^4 r^3 R + 32\sqrt{3}\,l^3 r^4 R + 224 l^2 r^5 R + 48\sqrt{3}\,l r^6 R + 48 r^7 R + 480 l^4 r^2 R^2 + 224\sqrt{3}\,l^3 r^3 R^2 + 736 l^2 r^4 R^2 + 192\sqrt{3}\,l r^5 R^2 + 288 r^6 R^2 + 1152 l^2 r^3 R^3 + 256\sqrt{3}\,l r^4 R^3 + 768 r^5 R^3 + 768 r^4 R^4\right)\}$$

$$\{\text{X14, 2nd ISOGONIC CENTER, X87, X(2)-CROSS CONJUGATE OF X(1)},$$
$$-\left(\left(4 r^2\left(2 l^{10} + 2\sqrt{3}\,l^9 r + 8 l^8 r^2 + 8\sqrt{3}\,l^7 r^3 + 12 l^6 r^4 + 12\sqrt{3}\,l^5 r^5 + 8 l^4 r^6 + 8\sqrt{3}\,l^3 r^7 + 2 l^2 r^8 + 2\sqrt{3}\,l r^9 + \sqrt{3}\,l^9 R - 77 l^8 r R - 76\sqrt{3}\,l^7 r^2 R - 100 l^6 r^3 R - 106\sqrt{3}\,l^5 r^4 R + 34 l^4 r^5 R + 20\sqrt{3}\,l^3 r^6 R + 60 l^2 r^7 R + 49\sqrt{3}\,l r^8 R + 3 r^9 R - 12 l^8 R^2 - 28\sqrt{3}\,l^7 r R^2 + 844 l^6 r^2 R^2 + 876\sqrt{3}\,l^5 r^3 R^2 - 788 l^4 r^4 R^2 - 724\sqrt{3}\,l^3 r^5 R^2 + 452 l^2 r^6 R^2 + 420\sqrt{3}\,l r^7 R^2 + 48 r^8 R^2 + 336 l^6 r R^3 + 336\sqrt{3}\,l^5 r^2 R^3 - 2368 l^4 r^3 R^3 - 2144\sqrt{3}\,l^3 r^4 R^3 + 1680 l^2 r^5 R^3 + 1616\sqrt{3}\,l r^6 R^3 + 288 r^7 R^3 - 2496 l^4 r^2 R^4 - 2368\sqrt{3}\,l^3 r^3 R^4 + 3392 l^2 r^4 R^4 + 2752\sqrt{3}\,l r^5 R^4 + 768 r^6 R^4 + 2304 l^2 r^3 R^5 + 1536\sqrt{3}\,l r^4 R^5 + 768 r^5 R^5\right)\right) \Big/ \left(3\left(l^2 - 2\sqrt{3}\,l r - r^2 - 4 r R\right)\left(l^4 + 2 l^2 r^2 + r^4 - 20 l^2 r R + 12 r^3 R + 32 r^2 R^2\right)^2\right)\right)\}$$

$$\{\text{X14, 2nd ISOGONIC CENTER, X88, ISOGONAL CONJUGATE OF X(44)},$$
$$-\left(\left(r^2\left(8 l^6 - 16\sqrt{3}\,l^5 r + 48 l^4 r^2 - 48\sqrt{3}\,l^3 r^3 + 72 l^2 r^4 + 2\sqrt{3}\,l^5 R + 216 l^4 r R + 300\sqrt{3}\,l^3 r^2 R - 504 l^2 r^3 R - 54\sqrt{3}\,l r^4 R - 39 l^4 R^2 + 24\sqrt{3}\,l^3 r R^2 + 1422 l^2 r^2 R^2 - 432\sqrt{3}\,l r^3 R^2 - 243 r^4 R^2 + 864 l^2 r R^3 - 864\sqrt{3}\,l r^2 R^3 - 1944 r^3 R^3 - 3888 r^2 R^4\right)\right) \Big/ \left(3\left(l^2 + 3 r^2 - 15 r R\right)^2\left(l^2 - 2\sqrt{3}\,l r - r^2 - 4 r R\right)\right)\right)\}$$

$$\{\text{X14, 2nd ISOGONIC CENTER, X89, ISOGONAL CONJUGATE OF X(45)},$$
$$-\left(\left(r^2\left(32 l^6 + 128\sqrt{3}\,l^5 r - 192 l^4 r^2 - 384\sqrt{3}\,l^3 r^3 + 288 l^2 r^4 - 4\sqrt{3}\,l^5 R + 120 l^4 r R - 48\sqrt{3}\,l^3 r^2 R - 72 l^2 r^3 R - 108\sqrt{3}\,l r^4 R - 147 l^4 R^2 - 528\sqrt{3}\,l^3 r R^2 + 666 l^2 r^2 R^2 - 864\sqrt{3}\,l r^3 R^2 - 243 r^4 R^2 - 1080 l^2 r R^3 - 1728\sqrt{3}\,l r^2 R^3 - 1944 r^3 R^3 - 3888 r^2 R^4\right)\right) \Big/ \left(3\left(l^2 - 2\sqrt{3}\,l r - r^2 - 4 r R\right)\left(2 l^2 - 6 r^2 + 3 r R\right)^2\right)\right)\}$$

$$\{\text{X14, 2nd ISOGONIC CENTER, X90, X(3)-CROSS CONJUGATE OF X(1)},$$
$$\left(4 r^2 \left(2 \sqrt{3}\, l^3 r^3 - 2 l^2 r^4 + 3 l^4 r R - 3 \sqrt{3}\, l^3 r^2 R - 8 l^2 r^3 R + 2 \sqrt{3}\, l r^4 R - 4 \sqrt{3}\, l^3 r R^2 - 16 l^2 r^2 R^2 + 14 \sqrt{3}\, l r^3 R^2 + \sqrt{3}\, l^3 R^3 - 10 l^2 r R^3 + 29 \sqrt{3}\, l r^2 R^3 - 2 l^2 R^4 + 12 \sqrt{3}\, l r R^4 - 5 \sqrt{3}\, l R^5 + 3 r R^5 + 12 R^6\right)\right) \Big/ \left(3 \left(l^2 - 2 \sqrt{3}\, l r - r^2 - 4 r R\right) \left(r^2 + 2 r R - R^2\right)^2\right)\}$$

$$\{\text{X14, 2nd ISOGONIC CENTER, X91, ISOGONAL CONJUGATE OF X(47)},$$
$$\left(r^2 \left(3 l^8 - 4 \sqrt{3}\, l^7 r + 4 l^6 r^2 - 4 \sqrt{3}\, l^5 r^3 + 2 l^4 r^4 + 4 \sqrt{3}\, l^3 r^5 + 4 l^2 r^6 + 4 \sqrt{3}\, l r^7 + 3 r^8 - 2 \sqrt{3}\, l^7 R - 50 l^6 r R + 66 \sqrt{3}\, l^5 r^2 R + 34 l^4 r^3 R - 70 \sqrt{3}\, l^3 r^4 R - 54 l^2 r^5 R + 54 \sqrt{3}\, l r^6 R + 54 r^7 R - 32 l^6 R^2 + 68 \sqrt{3}\, l^5 r R^2 + 268 l^4 r^2 R^2 - 312 \sqrt{3}\, l^3 r^3 R^2 - 488 l^2 r^4 R^2 + 292 \sqrt{3}\, l r^5 R^2 + 396 r^6 R^2 + 12 \sqrt{3}\, l^5 R^3 + 420 l^4 r R^3 - 504 \sqrt{3}\, l^3 r^2 R^3 - 1352 l^2 r^3 R^3 + 796 \sqrt{3}\, l r^4 R^3 + 1524 r^5 R^3 + 140 l^4 R^4 - 256 \sqrt{3}\, l^3 r R^4 - 1880 l^2 r^2 R^4 + 1152 \sqrt{3}\, l r^3 R^4 + 3324 r^4 R^4 - 24 \sqrt{3}\, l^3 R^5 - 1240 l^2 r R^5 + 872 \sqrt{3}\, l r^2 R^5 + 4200 r^3 R^5 - 272 l^2 R^6 + 272 \sqrt{3}\, l r R^6 + 3072 r^2 R^6 + 16 \sqrt{3}\, l R^7 + 1200 r R^7 + 192 R^8\right)\right) \Big/$$
$$\left(3 \left(l^2 - 2 \sqrt{3}\, l r - r^2 - 4 r R\right) \left(l^2 r + r^3 - l^2 R + 3 r^2 R + 2 r R^2 + 2 R^3\right)^2\right)\}$$

$$\{\text{X14, 2nd ISOGONIC CENTER, X92,}$$
$$\text{CEVAPOINT OF INCENTER AND CLAWSON POINT}, \frac{1}{3 \left(l^2 - 2 \sqrt{3}\, l r - r^2 - 4 r R\right) \left(l^2 + r^2 - 4 R^2\right)^2}$$
$$\left(3 l^8 - 4 \sqrt{3}\, l^7 r + 4 l^6 r^2 - 4 \sqrt{3}\, l^5 r^3 + 2 l^4 r^4 + 4 \sqrt{3}\, l^3 r^5 + 4 l^2 r^6 + 4 \sqrt{3}\, l r^7 + 3 r^8 - 72 l^6 r R + 72 \sqrt{3}\, l^5 r^2 R + 48 l^4 r^3 R - 64 \sqrt{3}\, l^3 r^4 R - 24 l^2 r^5 R + 56 \sqrt{3}\, l r^6 R + 48 r^7 R - 24 l^6 R^2 + 32 \sqrt{3}\, l^5 r R^2 + 376 l^4 r^2 R^2 - 336 \sqrt{3}\, l^3 r^3 R^2 - 344 l^2 r^4 R^2 + 304 \sqrt{3}\, l r^5 R^2 + 312 r^6 R^2 + 480 l^4 r R^3 - 416 \sqrt{3}\, l^3 r^2 R^3 - 1152 l^2 r^3 R^3 + 800 \sqrt{3}\, l r^4 R^3 + 1056 r^5 R^3 + 48 l^4 R^4 - 64 \sqrt{3}\, l^3 r R^4 - 1568 l^2 r^2 R^4 + 1024 \sqrt{3}\, l r^3 R^4 + 1968 r^4 R^4 - 768 l^2 r R^5 + 512 \sqrt{3}\, l r^2 R^5 + 1920 r^3 R^5 + 768 r^2 R^6\right)\}$$

$$\{\text{X14, 2nd ISOGONIC CENTER, X93, ISOGONAL CONJUGATE OF X(49)},$$
$$\left(3 l^{12} - 4 \sqrt{3}\, l^{11} r + 10 l^{10} r^2 - 12 \sqrt{3}\, l^9 r^3 + 13 l^8 r^4 - 8 \sqrt{3}\, l^7 r^5 + 12 l^6 r^6 + 8 \sqrt{3}\, l^5 r^7 + 13 l^4 r^8 + 12 \sqrt{3}\, l^3 r^9 + 10 l^2 r^{10} + 4 \sqrt{3}\, l r^{11} + 3 r^{12} - 72 l^{10} r R + 80 \sqrt{3}\, l^9 r^2 R - 88 l^8 r^3 R + 64 \sqrt{3}\, l^7 r^4 R - 16 l^6 r^5 R - 32 \sqrt{3}\, l^5 r^6 R + 16 l^4 r^7 R + 64 \sqrt{3}\, l^3 r^8 R + 88 l^2 r^9 R + 80 \sqrt{3}\, l r^{10} R + 72 r^{11} R - 30 l^{10} R^2 + 40 \sqrt{3}\, l^9 r R^2 + 326 l^8 r^2 R^2 - 192 \sqrt{3}\, l^7 r^3 R^2 + 212 l^6 r^4 R^2 - 336 \sqrt{3}\, l^5 r^5 R^2 - 180 l^4 r^6 R^2 + 64 \sqrt{3}\, l^3 r^7 R^2 + 202 l^2 r^8 R^2 + 680 \sqrt{3}\, l r^9 R^2 + 750 r^{10} R^2 + 600 l^8 r R^3 - 640 \sqrt{3}\, l^7 r^2 R^3 + 288 l^6 r^3 R^3 - 384 \sqrt{3}\, l^5 r^4 R^3 - 1392 l^4 r^5 R^3 - 128 \sqrt{3}\, l^3 r^6 R^3 - 224 l^2 r^7 R^3 + 3200 \sqrt{3}\, l r^8 R^3 + 4440 r^9 R^3 + 96 l^8 R^4 - 156 \sqrt{3}\, l^7 r R^4 - 1656 l^6 r^2 R^4 + 1124 \sqrt{3}\, l^5 r^3 R^4 - 4336 l^4 r^4 R^4 - 356 \sqrt{3}\, l^3 r^5 R^4 - 1016 l^2 r^6 R^4 + 9116 \sqrt{3}\, l r^7 R^4 + 16416 r^8 R^4 - 1536 l^6 r R^5 + 1872 \sqrt{3}\, l^5 r^2 R^5 - 4416 l^4 r^3 R^5 - 1248 \sqrt{3}\, l^3 r^4 R^5 + 1600 l^2 r^5 R^5 + 16208 \sqrt{3}\, l r^6 R^5 + 39168 r^7 R^5 - 102 l^6 R^6 + 352 \sqrt{3}\, l^5 r R^6 + 602 l^4 r^2 R^6 - 3136 \sqrt{3}\, l^3 r^3 R^6 + 8230 l^2 r^4 R^6 + 18080 \sqrt{3}\, l r^5 R^6 + 60006 r^6 R^6 + 1224 l^4 r R^7 - 2816 \sqrt{3}\, l^3 r^2 R^7 + 8656 l^2 r^3 R^7 + 12800 \sqrt{3}\, l r^4 R^7 + 56520 r^5 R^7 + 21 l^4 R^8 - 520 \sqrt{3}\, l^3 r R^8 + 1978 l^2 r^2 R^8 + 6152 \sqrt{3}\, l r^3 R^8 + 29493 r^4 R^8 - 168 l^2 r R^9 + 2080 \sqrt{3}\, l r^2 R^9 + 6696 r^3 R^9 + 12 l^2 R^{10} + 288 \sqrt{3}\, l r R^{10} + 324 r^2 R^{10} - 48 r R^{11}\right) \Big/$$
$$\left(3 \left(l^2 - 2 \sqrt{3}\, l r - r^2 - 4 r R\right) \left(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 8 l^2 R^2 + 24 r^2 R^2 + 32 r R^3 + 13 R^4\right)^2\right)\}$$

$$\{\text{X14, 2nd ISOGONIC CENTER, X94, ISOGONAL CONJUGATE OF X(50)},$$
$$\left(\left(\sqrt{3}\, l - 3 r - 3 R\right)^2 \left(\sqrt{3}\, l + r + 3 R\right)^2 \left(l^8 + 4 l^6 r^2 + 6 l^4 r^4 + 4 l^2 r^6 + r^8 - 16 l^6 r R - 16 l^4 r^3 R + 16 l^2 r^5 R + 16 r^7 R - 6 l^6 R^2 - 6 l^4 r^2 R^2 + 38 l^2 r^4 R^2 + 102 r^6 R^2 + 72 l^4 r R^3 + 80 l^2 r^3 R^3 + 328 r^5 R^3 + 9 l^4 R^4 + 18 l^2 r^2 R^4 + 553 r^4 R^4 - 72 l^2 r R^5 + 456 r^3 R^5 + 144 r^2 R^6\right)\right) \Big/$$
$$\left(9 \left(l^2 - 2 \sqrt{3}\, l r - r^2 - 4 r R\right) \left(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 12 l^2 R^2 + 28 r^2 R^2 + 48 r R^3 + 27 R^4\right)^2\right)\}$$

$$\Big\{\text{X14, 2nd ISOGONIC CENTER, X95, CEVAPOINT OF CENTROID AND CIRCUMCENTER,}$$
$$\Big(3\,l^{12}-4\sqrt{3}\,l^{11}\,r+58\,l^{10}\,r^2-12\sqrt{3}\,l^9\,r^3-51\,l^8\,r^4+1016\sqrt{3}\,l^7\,r^5-2260\,l^6\,r^6-1016\sqrt{3}\,l^5\,r^7-$$
$$51\,l^4\,r^8+12\sqrt{3}\,l^3\,r^9+58\,l^2\,r^{10}+4\sqrt{3}\,l\,r^{11}+3\,r^{12}-72\,l^{10}\,r\,R+80\sqrt{3}\,l^9\,r^2\,R-856\,l^8\,r^3\,R+$$
$$64\sqrt{3}\,l^7\,r^4\,R+1264\,l^6\,r^5\,R-4128\sqrt{3}\,l^5\,r^6\,R-1264\,l^4\,r^7\,R+64\sqrt{3}\,l^3\,r^8\,R+856\,l^2\,r^9\,R+$$
$$80\sqrt{3}\,l\,r^{10}\,R+72\,r^{11}\,R-24\,l^{10}\,R^2+32\sqrt{3}\,l^9\,r\,R^2+136\,l^8\,r^2\,R^2-384\sqrt{3}\,l^7\,r^3\,R^2+3344\,l^6\,r^4\,R^2-$$
$$4288\sqrt{3}\,l^5\,r^5\,R^2-5872\,l^4\,r^6\,R^2-128\sqrt{3}\,l^3\,r^7\,R^2+5000\,l^2\,r^8\,R^2+672\sqrt{3}\,l\,r^9\,R^2+$$
$$744\,r^{10}\,R^2+480\,l^8\,r\,R^3-512\sqrt{3}\,l^7\,r^2\,R^3+2688\,l^6\,r^3\,R^3+1024\sqrt{3}\,l^5\,r^4\,R^3-10176\,l^4\,r^5\,R^3-$$
$$1536\sqrt{3}\,l^3\,r^6\,R^3+14464\,l^2\,r^7\,R^3+3072\sqrt{3}\,l\,r^8\,R^3+4320\,r^9\,R^3+48\,l^8\,R^4-64\sqrt{3}\,l^7\,r\,R^4-$$
$$1280\,l^6\,r^2\,R^4+1088\sqrt{3}\,l^5\,r^3\,R^4-4448\,l^4\,r^4\,R^4-3136\sqrt{3}\,l^3\,r^5\,R^4+21248\,l^2\,r^6\,R^4+$$
$$8256\sqrt{3}\,l\,r^7\,R^4+15408\,r^8\,R^4-768\,l^6\,r\,R^5+768\sqrt{3}\,l^5\,r^2\,R^5-4352\,l^4\,r^3\,R^5-1024\sqrt{3}\,l^3\,r^4\,R^5+$$
$$15616\,l^2\,r^5\,R^5+13056\sqrt{3}\,l\,r^6\,R^5+34560\,r^7\,R^5+1536\sqrt{3}\,l^3\,r^3\,R^6+8704\,l^2\,r^4\,R^6+$$
$$11264\sqrt{3}\,l\,r^5\,R^6+47616\,r^6\,R^6+6144\,l^2\,r^3\,R^7+4096\sqrt{3}\,l\,r^4\,R^7+36864\,r^5\,R^7+12288\,r^4\,R^8\Big)\Big/$$
$$\Big(3\left(l^2-2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)\left(l^4+18\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-4\,l^2\,R^2+20\,r^2\,R^2+16\,r\,R^3\right)^2\Big)\Big\}$$

$$\Big\{\text{X14, 2nd ISOGONIC CENTER, X96, ISOGONAL CONJUGATE OF X(52),}$$
$$-\Big(\Big(\left(l^2-2\sqrt{3}\,l\,r-r^2-4\,r\,R-2\,R^2\right)^2\Big(3\,l^8-52\,l^6\,r^2+146\,l^4\,r^4-52\,l^2\,r^6+$$
$$3\,r^8-48\,l^6\,r\,R+464\,l^4\,r^3\,R-464\,l^2\,r^5\,R+48\,r^7\,R-24\,l^6\,R^2+584\,l^4\,r^2\,R^2-$$
$$1512\,l^2\,r^4\,R^2+312\,r^6\,R^2+288\,l^4\,r\,R^3-2240\,l^2\,r^3\,R^3+1056\,r^5\,R^3+60\,l^4\,R^4-$$
$$1576\,l^2\,r^2\,R^4+1980\,r^4\,R^4-480\,l^2\,r\,R^5+2016\,r^3\,R^5-48\,l^2\,R^6+1008\,r^2\,R^6+192\,r\,R^7\Big)\Big)\Big/$$
$$\Big(3\left(l^2-2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)\left(l^4-14\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R+16\,r^2\,R^2-4\,R^4\right)^2\Big)\Big)\Big\}$$

$$\Big\{\text{X14, 2nd ISOGONIC CENTER, X97, ISOGONAL CONJUGATE OF X(53),}$$
$$-\Big(\Big(8\,l^{10}\,r^2+32\sqrt{3}\,l^9\,r^3-96\,l^8\,r^4-224\sqrt{3}\,l^7\,r^5+304\,l^6\,r^6+224\sqrt{3}\,l^5\,r^7-96\,l^4\,r^8-32\sqrt{3}\,l^3\,r^9+$$
$$8\,l^2\,r^{10}-128\,l^8\,r^3\,R-384\sqrt{3}\,l^7\,r^4\,R+896\,l^6\,r^5\,R+1280\sqrt{3}\,l^5\,r^6\,R-896\,l^4\,r^7\,R-$$
$$384\sqrt{3}\,l^3\,r^8\,R+128\,l^2\,r^9\,R+2\sqrt{3}\,l^9\,r\,R^2-160\,l^8\,r^2\,R^2-376\sqrt{3}\,l^7\,r^3\,R^2+1888\,l^6\,r^4\,R^2+$$
$$2828\sqrt{3}\,l^5\,r^5\,R^2-3680\,l^4\,r^6\,R^2-1912\sqrt{3}\,l^3\,r^7\,R^2+928\,l^2\,r^8\,R^2+2\sqrt{3}\,l\,r^9\,R^2-$$
$$32\sqrt{3}\,l^7\,r^2\,R^3+1920\,l^6\,r^3\,R^3+3040\sqrt{3}\,l^5\,r^4\,R^3-8448\,l^4\,r^5\,R^3-5088\sqrt{3}\,l^3\,r^6\,R^3+$$
$$3968\,l^2\,r^7\,R^3+32\sqrt{3}\,l\,r^8\,R^3-3\,l^8\,R^4-16\sqrt{3}\,l^7\,r\,R^4+1112\,l^6\,r^2\,R^4+1728\sqrt{3}\,l^5\,r^3\,R^4-$$
$$11626\,l^4\,r^4\,R^4-7808\sqrt{3}\,l^3\,r^5\,R^4+10840\,l^2\,r^6\,R^4+208\sqrt{3}\,l\,r^7\,R^4-3\,r^8\,R^4+48\,l^6\,r\,R^5+$$
$$192\sqrt{3}\,l^5\,r^2\,R^5-8944\,l^4\,r^3\,R^5-6848\sqrt{3}\,l^3\,r^4\,R^5+19184\,l^2\,r^5\,R^5+704\sqrt{3}\,l\,r^6\,R^5-48\,r^7\,R^5+$$
$$24\,l^6\,R^6+32\sqrt{3}\,l^5\,r\,R^6-3720\,l^4\,r^2\,R^6-2944\sqrt{3}\,l^3\,r^3\,R^6+21608\,l^2\,r^4\,R^6+1312\sqrt{3}\,l\,r^5\,R^6-$$
$$312\,r^6\,R^6-288\,l^4\,r\,R^7-256\sqrt{3}\,l^3\,r^2\,R^7+14784\,l^2\,r^3\,R^7+1280\sqrt{3}\,l\,r^4\,R^7-1056\,r^5\,R^7-$$
$$48\,l^4\,R^8+5280\,l^2\,r^2\,R^8+512\sqrt{3}\,l\,r^3\,R^8-1968\,r^4\,R^8+384\,l^2\,r\,R^9-1920\,r^3\,R^9-768\,r^2\,R^{10}\Big)\Big/$$
$$\Big(3\left(l^2-2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)\left(l^4-6\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-7\,l^2\,R^2+23\,r^2\,R^2+28\,r\,R^3+12\,R^4\right)^2\Big)\Big)\Big\}$$

$$\Big\{\text{X14, 2nd ISOGONIC CENTER, X98, TarryPoint,}$$
$$-\frac{3\,l^4-10\,l^2\,r^2+3\,r^4-24\,l^2\,r\,R+24\,r^3\,R-12\,l^2\,R^2+60\,r^2\,R^2+48\,r\,R^3}{3\left(l^2+2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)}\Big\}$$

$$\Big\{\text{X14, 2nd ISOGONIC CENTER, X99, STEINER POINT,}$$
$$\Big(3\,l^6+2\sqrt{3}\,l^5\,r+19\,l^4\,r^2-28\sqrt{3}\,l^3\,r^3-19\,l^2\,r^4+2\sqrt{3}\,l\,r^5-3\,r^6-36\,l^4\,r\,R-16\sqrt{3}\,l^3\,r^2\,R-$$
$$40\,l^2\,r^3\,R+16\sqrt{3}\,l\,r^4\,R-36\,r^5\,R-144\,l^2\,r^2\,R^2+32\sqrt{3}\,l\,r^3\,R^2-144\,r^4\,R^2-192\,r^3\,R^3\Big)\Big/$$
$$\Big(3\left(l^2-2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)\left(l^2+2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)\Big)\Big\}$$

$$\Big\{\text{X14, 2nd ISOGONIC CENTER, X100, ANTICOMPLEMENT OF FEUERBACH POINT,}$$
$$-\Big(\Big(-8\sqrt{3}\,l^3\,r^2+16\,l^2\,r^3+8\sqrt{3}\,l\,r^4+3\,l^4\,R-4\sqrt{3}\,l^3\,r\,R-2\,l^2\,r^2\,R+52\sqrt{3}\,l\,r^3\,R+3\,r^4\,R-$$
$$48\,l^2\,r\,R^2+80\sqrt{3}\,l\,r^2\,R^2+24\,r^3\,R^2+48\,r^2\,R^3\Big)\Big/\Big(3\,(2\,r-R)\left(l^2-2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)\Big)\Big)\Big\}$$

$$\left\{\text{X15, 1st ISODYNAMIC POINT, X16, 2nd ISODYNAMIC POINT, } \frac{48\, l^2 r^2 R^2}{l^4 - 14\, l^2 r^2 + r^4 - 8\, l^2 r R + 8\, r^3 R + 16\, r^2 R^2}\right\}$$

$$\left\{\text{X15, 1st ISODYNAMIC POINT, X17, 1st NAPOLEON POINT, } -\left(\left(48\, l^2 r^2 \left(l^4 + 4\sqrt{3}\, l^3 r - 6\, l^2 r^2 - 4\sqrt{3}\, l\, r^3 + r^4 - 8\, l^2 r R - 16\sqrt{3}\, l\, r^2 R + 8\, r^3 R - 4\, l^2 R^2 - 16\sqrt{3}\, l\, r R^2 + 20\, r^2 R^2 + 16\, r R^3\right)\right) \Big/ \left(\left(3\, l^2 + 10\sqrt{3}\, l\, r - 3\, r^2 - 12\, r R\right)^2 \left(l^2 + 2\sqrt{3}\, l\, r - r^2 - 4\, r R\right)\right)\right)\right\}$$

$$\left\{\text{X15, 1st ISODYNAMIC POINT, X18, 2nd NAPOLEON POINT, } \left(48\, l^2 r^2 \left(2\, l^4 - 4\sqrt{3}\, l^3 r + 12\, l^2 r^2 + 4\sqrt{3}\, l\, r^3 + 2\, r^4 - 16\, l^2 r R + 16\sqrt{3}\, l\, r^2 R + 16\, r^3 R + l^2 R^2 - 14\sqrt{3}\, l\, r R^2 + 31\, r^2 R^2 - 4\, r R^3\right)\right) \Big/ \left(\left(3\, l^2 - 10\sqrt{3}\, l\, r - 3\, r^2 - 12\, r R\right)^2 \left(l^2 + 2\sqrt{3}\, l\, r - r^2 - 4\, r R\right)\right)\right\}$$

$$\left\{\text{X15, 1st ISODYNAMIC POINT, X19, CLAWSON POINT, } -\left(\left(4\, l^2 R \left(2\, l^4 r + 2\sqrt{3}\, l^3 r^2 - 2\, l^2 r^3 - 2\sqrt{3}\, l\, r^4 + l^4 R + 2\sqrt{3}\, l^3 r R - 16\, l^2 r^2 R - 10\sqrt{3}\, l\, r^3 R + 3\, r^4 R - 24\, l^2 r R^2 - 16\sqrt{3}\, l\, r^2 R^2 + 24\, r^3 R^2 - 4\, l^2 R^3 - 8\sqrt{3}\, l\, r R^3 + 60\, r^2 R^3 + 48\, r R^4\right)\right) \Big/ \left(\left(l^2 + 2\sqrt{3}\, l\, r - r^2 - 4\, r R\right) \left(l^2 - r^2 - 6\, r R - 8\, R^2\right)^2\right)\right)\right\}$$

$$\left\{\text{X15, 1st ISODYNAMIC POINT, X20, DE LONGCHAMPS POINT, } -\frac{\left(\sqrt{3}\, l - r - 4\, R\right) \left(\sqrt{3}\, l^3 + 5\, l^2 r + \sqrt{3}\, l\, r^2 - 3\, r^3 + 4\, l^2 R - 12\, r^2 R - 16\, r R^2\right)}{l^2 + 2\sqrt{3}\, l\, r - r^2 - 4\, r R}\right\}$$

$$\left\{\text{X15, 1st ISODYNAMIC POINT, X21, SCHIFFLER POINT, } -\left(\left(R \left(2\, l^4 r + 4\, l^2 r^3 + 2\, r^5 + l^4 R - 4\sqrt{3}\, l^3 r R - 2\, l^2 r^2 R - 4\sqrt{3}\, l\, r^3 R + 13\, r^4 R - 8\, l^2 r R^2 - 8\sqrt{3}\, l\, r^2 R^2 + 24\, r^3 R^2 + 16\, r^2 R^3\right)\right) \Big/ \left((2\, r + 3\, R)^2 \left(-l^2 - 2\sqrt{3}\, l\, r + r^2 + 4\, r R\right)\right)\right)\right\}$$

$$\left\{\text{X15, 1st ISODYNAMIC POINT, X22, ExeterPoint, } \left(R^2 \left(-2\sqrt{3}\, l^5 r - 4\, l^4 r^2 + 4\sqrt{3}\, l^3 r^3 + 4\, l^2 r^4 - 2\sqrt{3}\, l\, r^5 + 16\sqrt{3}\, l^3 r^2 R + 16\, l^2 r^3 R - 16\sqrt{3}\, l\, r^4 R + l^4 R^2 + 8\sqrt{3}\, l^3 r R^2 + 10\, l^2 r^2 R^2 - 40\sqrt{3}\, l\, r^3 R^2 + r^4 R^2 - 8\, l^2 r R^3 - 32\sqrt{3}\, l\, r^2 R^3 + 8\, r^3 R^3 + 16\, r^2 R^4\right)\right) \Big/ \left(\left(l^2 + 2\sqrt{3}\, l\, r - r^2 - 4\, r R\right) \left(l^2 - r^2 - 4\, r R - 3\, R^2\right)^2\right)\right\}$$

$$\left\{\text{X15, 1st ISODYNAMIC POINT, X23, FarOutPoint, } -\frac{R^2 \left(-l^2 - 2\sqrt{3}\, l\, r + r^2 + 4\, r R\right)}{-2\, l^2 + 2\, r^2 + 8\, r R + 9\, R^2}\right\}$$

$$\left\{\text{X15, 1st ISODYNAMIC POINT, X24, PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE, } \left(R^2 \left(2\sqrt{3}\, l^5 r + 4\, l^4 r^2 - 4\sqrt{3}\, l^3 r^3 - 4\, l^2 r^4 + 2\sqrt{3}\, l\, r^5 - 16\sqrt{3}\, l^3 r^2 R - 16\, l^2 r^3 R + 16\sqrt{3}\, l\, r^4 R + l^4 R^2 - 16\sqrt{3}\, l^3 r R^2 - 22\, l^2 r^2 R^2 + 48\sqrt{3}\, l\, r^3 R^2 + r^4 R^2 - 8\, l^2 r R^3 + 64\sqrt{3}\, l\, r^2 R^3 + 8\, r^3 R^3 - 4\, l^2 R^4 + 32\sqrt{3}\, l\, r R^4 + 20\, r^2 R^4 + 16\, r R^5\right)\right) \Big/ \left(\left(-l^2 - 2\sqrt{3}\, l\, r + r^2 + 4\, r R\right) \left(-l^2 + r^2 + 4\, r R + 5\, R^2\right)^2\right)\right\}$$

$$\left\{\text{X15, 1st ISODYNAMIC POINT, X25, HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES, } -\left(\left(R^2 \left(-l^6 - 2\sqrt{3}\, l^5 r - 5\, l^4 r^2 + 4\sqrt{3}\, l^3 r^3 + 5\, l^2 r^4 - 2\sqrt{3}\, l\, r^5 + r^6 + 12\, l^4 r R + 16\sqrt{3}\, l^3 r^2 R + 8\, l^2 r^3 R - 16\sqrt{3}\, l\, r^4 R + 12\, r^5 R + 4\, l^4 R^2 + 8\sqrt{3}\, l^3 r R^2 - 8\, l^2 r^2 R^2 - 40\sqrt{3}\, l\, r^3 R^2 + 52\, r^4 R^2 - 32\, l^2 r R^3 - 32\sqrt{3}\, l\, r^2 R^3 + 96\, r^3 R^3 + 64\, r^2 R^4\right)\right) \Big/ \left(\left(-l^2 - 2\sqrt{3}\, l\, r + r^2 + 4\, r R\right) \left(-l^2 + r^2 + 4\, r R + 6\, R^2\right)^2\right)\right)\right\}$$

$$\left\{\text{X15, 1st ISODYNAMIC POINT, X26, CIRCUMCENTER OF THE TANGENTIAL TRIANGLE,}\right.$$
$$-\left(\left(R^2\left(2\sqrt{3}\,l^5 r+4 l^4 r^2-4\sqrt{3}\,l^3 r^3-4 l^2 r^4+2\sqrt{3}\,l r^5-16\sqrt{3}\,l^3 r^2 R-16 l^2 r^3 R+16\sqrt{3}\,l r^4 R-\right.\right.\right.$$
$$\left.\left.\left.12\sqrt{3}\,l^3 r R^2-16 l^2 r^2 R^2+44\sqrt{3}\,l r^3 R^2+48\sqrt{3}\,l r^2 R^3-l^2 R^4+14\sqrt{3}\,l r R^4+r^2 R^4+4 r R^5\right)\right)\Big/$$
$$\left.\left.\left((l-r-2R)^2(l+r+2R)^2\left(l^2+2\sqrt{3}\,l r-r^2-4 r R\right)\right)\right)\right\}$$

$$\left\{\text{X15, 1st ISODYNAMIC POINT, X27, CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER,}\right.$$
$$-\frac{1}{\left(\sqrt{3}\,l-3r-6R\right)^2\left(\sqrt{3}\,l+3r+6R\right)^2\left(l^2+2\sqrt{3}\,l r-r^2-4 r R\right)}$$
$$9\left(3 l^8+4\sqrt{3}\,l^7 r+4\sqrt{3}\,l^5 r^3-10 l^4 r^4-4\sqrt{3}\,l^3 r^5-8 l^2 r^6-4\sqrt{3}\,l r^7-r^8-16 l^6 r R+\right.$$
$$16\sqrt{3}\,l^5 r^2 R-48 l^4 r^3 R-32\sqrt{3}\,l^3 r^4 R-48 l^2 r^5 R-48\sqrt{3}\,l r^6 R-16 r^7 R-8 l^6 R^2+$$
$$16\sqrt{3}\,l^5 r R^2-72 l^4 r^2 R^2-112\sqrt{3}\,l^3 r^3 R^2-72 l^2 r^4 R^2-224\sqrt{3}\,l r^5 R^2-104 r^6 R^2-$$
$$32 l^4 r R^3-192\sqrt{3}\,l^3 r^2 R^3+64 l^2 r^3 R^3-512\sqrt{3}\,l r^4 R^3-352 r^5 R^3-16 l^4 R^4-128\sqrt{3}\,l^3 r R^4+$$
$$\left.\left.224 l^2 r^2 R^4-576\sqrt{3}\,l r^3 R^4-656 r^4 R^4+128 l^2 r R^5-256\sqrt{3}\,l r^2 R^5-640 r^3 R^5-256 r^2 R^6\right)\right\}$$

$$\left\{\text{X15, 1st ISODYNAMIC POINT, X28, CEVAPOINT OF X(19) AND X(25),}\right.$$
$$-\frac{1}{\left(-l^2-2\sqrt{3}\,l r+r^2+4 r R\right)\left(-l^2+r^2+5 r R+6 R^2\right)^2}$$
$$R\left(-l^6 r-l^4 r^3+l^2 r^5+r^7-l^6 R-2\sqrt{3}\,l^5 r R+6 l^4 r^2 R+3 l^2 r^4 R+2\sqrt{3}\,l r^5 R+12 r^6 R+\right.$$
$$16 l^4 r R^2+4\sqrt{3}\,l^3 r^2 R^2-8 l^2 r^3 R^2+12\sqrt{3}\,l r^4 R^2+56 r^5 R^2+4 l^4 R^3+8\sqrt{3}\,l^3 r R^3-$$
$$\left.\left.36 l^2 r^2 R^3+24\sqrt{3}\,l r^3 R^3+128 r^4 R^3-32 l^2 r R^4+16\sqrt{3}\,l r^2 R^4+144 r^3 R^4+64 r^2 R^5\right)\right\}$$

$$\left\{\text{X15, 1st ISODYNAMIC POINT, X29, CEVAPOINT OF INCENTER AND ORTHOCENTER,}\right.$$
$$\frac{1}{\left(l^2+2\sqrt{3}\,l r-r^2-4 r R\right)\left(3 l^2-r^2-8 r R-12 R^2\right)^2}$$
$$\left(l^8-4\sqrt{3}\,l^7 r+8 l^6 r^2-4\sqrt{3}\,l^5 r^3+10 l^4 r^4+4\sqrt{3}\,l^3 r^5+4\sqrt{3}\,l r^7-3 r^8-\right.$$
$$16 l^6 r R+16\sqrt{3}\,l^5 r^2 R+32\sqrt{3}\,l^3 r^4 R-16 l^2 r^5 R+16\sqrt{3}\,l r^6 R-32 r^7 R-8 l^6 R^2+$$
$$32\sqrt{3}\,l^5 r R^2+8 l^4 r^2 R^2+48\sqrt{3}\,l^3 r^3 R^2-72 l^2 r^4 R^2-16\sqrt{3}\,l r^5 R^2-120 r^6 R^2+96 l^4 r R^3-$$
$$32\sqrt{3}\,l^3 r^2 R^3-128 l^2 r^3 R^3-160\sqrt{3}\,l r^4 R^3-160 r^5 R^3+16 l^4 R^4-64\sqrt{3}\,l^3 r R^4-$$
$$\left.\left.160 l^2 r^2 R^4-256\sqrt{3}\,l r^3 R^4+80 r^4 R^4-128 l^2 r R^5-128\sqrt{3}\,l r^2 R^5+384 r^3 R^5+256 r^2 R^6\right)\right\}$$

$$\left\{\text{X15, 1st ISODYNAMIC POINT, X30, EulerInfinityPoint, }\infty\right\}$$

$$\left\{\text{X15, 1st ISODYNAMIC POINT, X31, SecondPowerPoint,}\right.$$
$$\left.\frac{4 r^2 R^2\left(3 l^4-2\sqrt{3}\,l^3 r-12 l^2 r^2-2\sqrt{3}\,l r^3+r^4-24 l^2 r R-8\sqrt{3}\,l r^2 R+8 r^3 R+16 r^2 R^2\right)}{\left(l^2-3r^2-6 r R\right)^2\left(l^2+2\sqrt{3}\,l r-r^2-4 r R\right)}\right\}$$

$$\left\{\text{X15, 1st ISODYNAMIC POINT, X32, ThirdPowerPoint,}\right.$$
$$\left.\frac{4 l^2 r^2 R^2\left(3 l^2+2\sqrt{3}\,l r-3 r^2-12 r R\right)^2\left(l^2-2\sqrt{3}\,l r-r^2-4 r R\right)}{3\left(l^2-2 l r-r^2-4 r R\right)^2\left(l^2+2 l r-r^2-4 r R\right)^2\left(l^2+2\sqrt{3}\,l r-r^2-4 r R\right)}\right\}$$

$$\left\{\text{X15, 1st ISODYNAMIC POINT, X33, PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES,}\right.$$
$$-\left(\left(4 r^2 R\left(-2\sqrt{3}\,l^5+2 l^4 r+2\sqrt{3}\,l^3 r^2-2 l^2 r^3+3 l^4 R+10\sqrt{3}\,l^3 r R-8 l^2 r^2 R-2\sqrt{3}\,l r^3 R+r^4 R+\right.\right.\right.$$
$$\left.\left.\left.16\sqrt{3}\,l^3 R^2-28 l^2 r R^2-16\sqrt{3}\,l r^2 R^2+12 r^3 R^2-28 l^2 R^3-40\sqrt{3}\,l r R^3+52 r^2 R^3-\right.\right.$$
$$\left.\left.\left.32\sqrt{3}\,l R^4+96 r R^4+64 R^5\right)\right)\Big/\left(\left(-l^2-2\sqrt{3}\,l r+r^2+4 r R\right)\left(-l^2+r^2+2 r R+4 R^2\right)^2\right)\right)\right\}$$

$$\left\{\text{X15, 1st ISODYNAMIC POINT, X34, X(4)-BETH CONJUGATE OF X(4)},\right.$$
$$-\left(\left(4 r^2 R \left(2\sqrt{3}\, l^3 r^2 - 2 l^2 r^3 - 2\sqrt{3}\, l r^4 + 2 r^5 + 3 l^4 R - 2\sqrt{3}\, l^3 r R - 12 l^2 r^2 R - 6\sqrt{3}\, l r^3 R + 21 r^4 R - 36 l^2 r R^2 + 84 r^3 R^2 - 28 l^2 R^3 + 8\sqrt{3}\, l r R^3 + 164 r^2 R^3 + 160 r R^4 + 64 R^5\right)\right) \Big/ \left(\left(-l^2 - 2\sqrt{3}\, l r + r^2 + 4 r R\right) \left(-l^2 + r^2 + 6 r R + 4 R^2\right)^2\right)\right)\Big\}$$

$$\left\{\text{X15, 1st ISODYNAMIC POINT, X35, \{X(1),X(3)\}-HARMONIC CONJUGATE OF X(36)},\right.$$
$$\left.-\frac{4 r^2 R^2 \left(2 l^2 - 2\sqrt{3}\, l r - 3\sqrt{3}\, l R + r R + 4 R^2\right)}{(2 r + R)^2 \left(-l^2 - 2\sqrt{3}\, l r + r^2 + 4 r R\right)}\right\}$$

$$\left\{\text{X15, 1st ISODYNAMIC POINT, X36,}\right.$$
$$\left.\text{INVERSE-IN-CIRCUMCIRCLE OF INCENTER}, \frac{4 r^2 R^2 \left(\sqrt{3}\, l + r + 4 R\right)}{(2 r - R) \left(-l^2 - 2\sqrt{3}\, l r + r^2 + 4 r R\right)}\right\}$$

$$\left\{\text{X15, 1st ISODYNAMIC POINT, X37, CrosspointOfIncenterAndCentroid},\right.$$
$$\left.-\frac{4 l^2 r^2 R \left(2\sqrt{3}\, l^3 - 4 l^2 r - 2\sqrt{3}\, l r^2 - 7 l^2 R - 2\sqrt{3}\, l r R + 3 r^2 R + 12 r R^2\right)}{\left(l^2 + 2\sqrt{3}\, l r - r^2 - 4 r R\right) \left(l^2 + r^2 + 4 r R\right)^2}\right\}$$

$$\left\{\text{X15, 1st ISODYNAMIC POINT, X38, CROSSPOINT OF X(1) AND X(75)},\right.$$
$$-\left(\left(4 r^2 R \left(-2\sqrt{3}\, l^5 + 6 l^4 r + 8\sqrt{3}\, l^3 r^2 - 8 l^2 r^3 - 6\sqrt{3}\, l r^4 + 2 r^5 + 7 l^4 R + 18\sqrt{3}\, l^3 r R - 56 l^2 r^2 R - 38\sqrt{3}\, l r^3 R + 25 r^4 R - 72 l^2 r R^2 - 56\sqrt{3}\, l r^2 R^2 + 104 r^3 R^2 + 144 r^2 R^3\right)\right) \Big/ \left(\left(l^2 + r^2 - 2 r R\right)^2 \left(-l^2 - 2\sqrt{3}\, l r + r^2 + 4 r R\right)\right)\right)\Big\}$$

$$\left\{\text{X15, 1st ISODYNAMIC POINT, X39, BrocardMidpoint},\right.$$
$$\left.\frac{4 l^2 r^2 R^2 \left(3 l^2 - 2\sqrt{3}\, l r - 3 r^2 - 12 r R\right)^2 \left(l^2 - 2\sqrt{3}\, l r - r^2 - 4 r R\right)}{3 \left(l^2 + 2\sqrt{3}\, l r - r^2 - 4 r R\right) \left(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\right)^2}\right\}$$

$$\left\{\text{X15, 1st ISODYNAMIC POINT, X40, BEVAN POINT}, \frac{4 R \left(l^2 r + \sqrt{3}\, l r^2 - l^2 R + r^2 R + 4 r R^2\right)}{-l^2 - 2\sqrt{3}\, l r + r^2 + 4 r R}\right\}$$

$$\left\{\text{X15, 1st ISODYNAMIC POINT, X41, X(6)-CEVA CONJUGATE OF X(31)},\right.$$
$$-\left(\left(4 l^2 r^2 R^2 \left(l^4 + 2\sqrt{3}\, l^3 r - 12 l^2 r^2 + 2\sqrt{3}\, l r^3 + 3 r^4 - 52 l^2 r R + 16\sqrt{3}\, l r^2 R + 36 r^3 R - 16 l^2 R^2 + 32\sqrt{3}\, l r R^2 + 144 r^2 R^2 + 192 r R^3\right)\right) \Big/ \left(\left(l^2 + 2\sqrt{3}\, l r - r^2 - 4 r R\right) \left(3 l^2 r - r^3 + 2 l^2 R - 8 r^2 R - 16 r R^2\right)^2\right)\right)\Big\}$$

$$\left\{\text{X15, 1st ISODYNAMIC POINT, X42, CROSSPOINT OF INCENTER AND SYMMEDIAN POINT},\right.$$
$$\left.-\frac{4 r^2 R^2 \left(3 l^4 - 10\sqrt{3}\, l^3 r + 12 l^2 r^2 - 2\sqrt{3}\, l r^3 + r^4 - 8\sqrt{3}\, l r^2 R + 8 r^3 R + 16 r^2 R^2\right)}{\left(l^2 + r^2 - 2 r R\right)^2 \left(-l^2 - 2\sqrt{3}\, l r + r^2 + 4 r R\right)}\right\}$$

$$\left\{\text{X15, 1st ISODYNAMIC POINT, X43, X(6)-CEVA CONJUGATE OF X(1)},\right.$$
$$\left(4 r^2 R \left(-\sqrt{3}\, l^5 + l^4 r - 2\sqrt{3}\, l^3 r^2 + 2 l^2 r^3 - \sqrt{3}\, l r^4 + r^5 - 4 l^4 R + 20\sqrt{3}\, l^3 r R - 28 l^2 r^2 R - 12\sqrt{3}\, l r^3 R + 8 r^4 R + 48 l^2 r R^2 - 32\sqrt{3}\, l r^2 R^2 + 16 r^3 R^2\right)\right) \Big/ \left(\left(l^2 + r^2 - 8 r R\right)^2 \left(-l^2 - 2\sqrt{3}\, l r + r^2 + 4 r R\right)\right)\Big\}$$

$$\left\{\text{X15, 1st ISODYNAMIC POINT, X44, X(6)-LINE CONJUGATE OF X(1)},\ \frac{4 l^2 r^2 R \left(2\sqrt{3}\, l^3+4 l^2 r+6\sqrt{3}\, l r^2+7 l^2 R-30\sqrt{3}\, l r R-27 r^2 R-108 r R^2\right)}{\left(l^2-3 r^2-12 r R\right)^2 \left(l^2+2\sqrt{3}\, l r-r^2-4 r R\right)}\right\}$$

$$\left\{\text{X15, 1st ISODYNAMIC POINT, X45, X(9)-BETH CONJUGATE OF X(1)},\ -\frac{4 l^2 r^2 R \left(4\sqrt{3}\, l^3-16 l^2 r-12\sqrt{3}\, l r^2-19 l^2 R+6\sqrt{3}\, l r R+27 r^2 R+108 r R^2\right)}{\left(l^2+2\sqrt{3}\, l r-r^2-4 r R\right) \left(l^2+3 r^2+12 r R\right)^2}\right\}$$

$$\left\{\text{X15, 1st ISODYNAMIC POINT, X46, X(4)-CEVA CONJUGATE OF X(1)},\ \frac{4 r^2 R \left(l^2 r+\sqrt{3}\, l r^2+2\sqrt{3}\, l r R-\sqrt{3}\, l R^2-r R^2-4 R^3\right)}{(r-R)^2 \left(-l^2-2\sqrt{3}\, l r+r^2+4 r R\right)}\right\}$$

$$\left\{\text{X15, 1st ISODYNAMIC POINT, X47, X(110)-BETH CONJUGATE OF X(34)},\ -\left(\left(4 r^2 R^2 \left(3 l^4-2\sqrt{3}\, l^3 r-12 l^2 r^2-2\sqrt{3}\, l r^3+r^4+2\sqrt{3}\, l^3 R-22 l^2 r R-6\sqrt{3}\, l r^2 R+10 r^3 R-12 l^2 R^2-4\sqrt{3}\, l r R^2+32 r^2 R^2-4\sqrt{3}\, l R^3+36 r R^3+16 R^4\right)\right) \Big/ \left(\left(-l^2-2\sqrt{3}\, l r+r^2+4 r R\right) \left(-l^2+3 r^2+6 r R+2 R^2\right)^2\right)\right)\right\}$$

$$\left\{\text{X15, 1st ISODYNAMIC POINT, X48, CROSSPOINT OF X(1) AND X(63)},\ -\left(\left(4 l^2 R^2 \left(l^4+2\sqrt{3}\, l^3 r-12 l^2 r^2+2\sqrt{3}\, l r^3+3 r^4-16 l^2 r R+24 r^3 R-4 l^2 R^2-8\sqrt{3}\, l r R^2+60 r^2 R^2+48 r R^3\right)\right) \Big/ \left(\left(l^2+2\sqrt{3}\, l r-r^2-4 r R\right) \left(3 l^2-r^2-6 r R-8 R^2\right)^2\right)\right)\right\}$$

$$\left\{\text{X15, 1st ISODYNAMIC POINT, X49, CENTER OF SINE-TRIPLE-ANGLE CIRCLE},\ -\frac{1}{\left(l^2+2\sqrt{3}\, l r-r^2-4 r R\right) \left(2 l^2-2 r^2-8 r R-7 R^2\right)^2} R^2 \left(l^6+2\sqrt{3}\, l^5 r-31 l^4 r^2+4\sqrt{3}\, l^3 r^3+31 l^2 r^4+2\sqrt{3}\, l r^5-r^6-12 l^4 r R-16\sqrt{3}\, l^3 r^2 R+136 l^2 r^3 R+16\sqrt{3}\, l r^4 R-12 r^5 R-4 l^4 R^2-16\sqrt{3}\, l^3 r R^2+168 l^2 r^2 R^2+48\sqrt{3}\, l r^3 R^2-52 r^4 R^2+32 l^2 r R^3+64\sqrt{3}\, l r^2 R^3-96 r^3 R^3-l^2 R^4+26\sqrt{3}\, l r R^4-63 r^2 R^4+4 r R^5\right)\right\}$$

$$\left\{\text{X15, 1st ISODYNAMIC POINT, X50, X(74)-CEVA CONJUGATE OF X(184)},\ \frac{4 l^2 r^2 \left(\sqrt{3}\, l-r-3 R\right)^2 R^2 \left(\sqrt{3}\, l+3 r+3 R\right)^2 \left(l^2-2\sqrt{3}\, l r-r^2-4 r R\right)}{3 \left(l^2+2\sqrt{3}\, l r-r^2-4 r R\right) \left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-3 l^2 R^2+19 r^2 R^2+12 r R^3\right)^2}\right\}$$

$$\left\{\text{X15, 1st ISODYNAMIC POINT, X51, CENTROID OF ORTHIC TRIANGLE},\ -\left(\left(-l^6-2\sqrt{3}\, l^5 r-17 l^4 r^2-36\sqrt{3}\, l^3 r^3+17 l^2 r^4-2\sqrt{3}\, l r^5+r^6+12 l^4 r R+16\sqrt{3}\, l^3 r^2 R+56 l^2 r^3 R-16\sqrt{3}\, l r^4 R+12 r^5 R+4 l^4 R^2+8\sqrt{3}\, l^3 r R^2+136 l^2 r^2 R^2-40\sqrt{3}\, l r^3 R^2+52 r^4 R^2-32 l^2 r R^3-32\sqrt{3}\, l r^2 R^3+96 r^3 R^3+64 r^2 R^4\right) \Big/ \left(36 R^2 \left(-l^2-2\sqrt{3}\, l r+r^2+4 r R\right)\right)\right)\right\}$$

$$\left\{\text{X15, 1st ISODYNAMIC POINT, X52, ORTHOCENTER OF ORTHIC TRIANGLE},\ \frac{\left(-l^2+2\sqrt{3}\, l r+r^2+4 r R\right) \left(-l^2-2\sqrt{3}\, l r+r^2+4 r R+2 R^2\right)^2}{4 R^2 \left(-l^2-2\sqrt{3}\, l r+r^2+4 r R\right)}\right\}$$

$$\{\text{X15, 1st ISODYNAMIC POINT, X53, SYMMEDIAN POINT OF ORTHIC TRIANGLE},$$
$$\Big(4 l^2 r^2 \big(2\sqrt{3}\, l^7 r - 4 l^6 r^2 - 14\sqrt{3}\, l^5 r^3 + 24 l^4 r^4 + 14\sqrt{3}\, l^3 r^5 - 4 l^2 r^6 - 2\sqrt{3}\, l r^7 - 24\sqrt{3}\, l^5 r^2 R + 32 l^4 r^3 R + 80\sqrt{3}\, l^3 r^4 R - 32 l^2 r^5 R - 24\sqrt{3}\, l r^6 R + 3 l^6 R^2 - 22\sqrt{3}\, l^5 r R^2 - 17 l^4 r^2 R^2 + 172\sqrt{3}\, l^3 r^3 R^2 - 47 l^2 r^4 R^2 - 118\sqrt{3}\, l r^5 R^2 - 3 r^6 R^2 - 36 l^4 r R^3 + 176\sqrt{3}\, l^3 r^2 R^3 + 104 l^2 r^3 R^3 - 304\sqrt{3}\, l r^4 R^3 - 36 r^5 R^3 - 24 l^4 R^4 + 80\sqrt{3}\, l^3 r R^4 + 288 l^2 r^2 R^4 - 432\sqrt{3}\, l r^3 R^4 - 168 r^4 R^4 + 192 l^2 r R^5 - 320\sqrt{3}\, l r^2 R^5 - 384 r^3 R^5 + 48 l^2 R^6 - 96\sqrt{3}\, l r R^6 - 432 r^2 R^6 - 192 r R^7\big)\Big) \Big/ \Big(\big(l^2 + 2\sqrt{3}\, l r - r^2 - 4 r R\big)\big(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 4 l^2 R^2 + 20 r^2 R^2 + 16 r R^3\big)^2\Big)\}$$

$$\{\text{X15, 1st ISODYNAMIC POINT, X54, KosnitaPoint},$$
$$\Big(R^2 \big(4\sqrt{3}\, l^5 r - 32 l^4 r^2 + 8\sqrt{3}\, l^3 r^3 + 32 l^2 r^4 + 4\sqrt{3}\, l r^5 - 32\sqrt{3}\, l^3 r^2 R + 128 l^2 r^3 R + 32\sqrt{3}\, l r^4 R + l^4 R^2 - 24\sqrt{3}\, l^3 r R^2 + 98 l^2 r^2 R^2 + 88\sqrt{3}\, l r^3 R^2 + r^4 R^2 - 8 l^2 r R^3 + 96\sqrt{3}\, l r^2 R^3 + 8 r^3 R^3 - 4 l^2 R^4 + 32\sqrt{3}\, l r R^4 + 20 r^2 R^4 + 16 r R^5\big)\Big) \Big/ \Big(\big(-l^2 - 2\sqrt{3}\, l r + r^2 + 4 r R\big)\big(-2 l^2 + 2 r^2 + 8 r R + 5 R^2\big)^2\Big)\}$$

$$\{\text{X15, 1st ISODYNAMIC POINT, X55},$$
$$\text{INSIMILICENTER(CIRCUMCIRCLE, INCIRCLE)}, -\frac{r^2 R^2 \left(-\sqrt{3}\, l + r + 4 R\right)^2}{(r+R)^2 \left(-l^2 - 2\sqrt{3}\, l r + r^2 + 4 r R\right)}\}$$

$$\{\text{X15, 1st ISODYNAMIC POINT, X56},$$
$$\text{EXSIMILICENTER(CIRCUMCIRCLE, INCIRCLE)}, \frac{r^2 R^2 \left(l^2 + 2\sqrt{3}\, l r + 3 r^2 + 8 r R - 16 R^2\right)}{(r-R)^2 \left(-l^2 - 2\sqrt{3}\, l r + r^2 + 4 r R\right)}\}$$

$$\{\text{X15, 1st ISODYNAMIC POINT, X57, ISOGONAL CONJUGATE OF X(9)},$$
$$-\frac{4 r^2 R \left(-l^2 r - \sqrt{3}\, l r^2 - l^2 R - 4\sqrt{3}\, l r R + r^2 R + 8 r R^2 + 16 R^3\right)}{(r-2R)^2 \left(-l^2 - 2\sqrt{3}\, l r + r^2 + 4 r R\right)}\}$$

$$\{\text{X15, 1st ISODYNAMIC POINT, X58},$$
$$\text{ISOGONAL CONJUGATE OF X(10)}, \frac{4 r^2 \left(\sqrt{3}\, l + r\right)^2 R^2 \left(-l^2 + 2\sqrt{3}\, l r + r^2 + 4 r R\right)}{\left(-l^2 - 2\sqrt{3}\, l r + r^2 + 4 r R\right)\left(-l^2 + 3 r^2 + 4 r R\right)^2}\}$$

$$\{\text{X15, 1st ISODYNAMIC POINT, X59, ISOGONAL CONJUGATE OF X(11)},$$
$$\Big(r^2 R^2 \left(\sqrt{3}\, l + r + 4 R\right)\big(2 l^4 - 6\sqrt{3}\, l^3 r + 10 l^2 r^2 + 2\sqrt{3}\, l r^3 + 3\sqrt{3}\, l^3 R - 19 l^2 r R + 15\sqrt{3}\, l r^2 R + r^3 R - 20 l^2 R^2 + 24\sqrt{3}\, l r R^2 + 12 r^2 R^2 - 16\sqrt{3}\, l R^3 + 48 r R^3 + 64 R^4\big)\Big) \Big/ \Big((2r - R)\left(-l^2 - 2\sqrt{3}\, l r + r^2 + 4 r R\right)\left(-l^2 + r^2 + 5 r R + 4 R^2\right)^2\Big)\}$$

$$\{\text{X15, 1st ISODYNAMIC POINT, X60, ISOGONAL CONJUGATE OF X(12)},$$
$$-\Big(\big(r^2 R^2 \big(-4\sqrt{3}\, l^5 r + 32 l^4 r^2 - 8\sqrt{3}\, l^3 r^3 - 32 l^2 r^4 - 4\sqrt{3}\, l r^5 - 2\sqrt{3}\, l^5 R + 50 l^4 r R - 20\sqrt{3}\, l^3 r^2 R - 140 l^2 r^3 R - 18\sqrt{3}\, l r^4 R + 2 r^5 R + 13 l^4 R^2 - 8\sqrt{3}\, l^3 r R^2 - 230 l^2 r^2 R^2 - 24\sqrt{3}\, l r^3 R^2 + 13 r^4 R^2 - 128 l^2 r R^3 - 8\sqrt{3}\, l r^2 R^3 + 24 r^3 R^3 + 16 r^2 R^4\big)\big) \Big/ \Big(\left(-l^2 - 2\sqrt{3}\, l r + r^2 + 4 r R\right)\left(-2 l^2 r + 2 r^3 - l^2 R + 7 r^2 R + 7 r R^2\right)^2\Big)\Big)\}$$

$$\{\text{X15, 1st ISODYNAMIC POINT, X61, ISOGONAL CONJUGATE OF X(17)},$$
$$\frac{48 l^2 r^2 R^2 \left(l^2 - 2\sqrt{3}\, l r - r^2 - 4 r R\right)}{\left(3 l^2 + 2\sqrt{3}\, l r - 3 r^2 - 12 r R\right)^2 \left(l^2 + 2\sqrt{3}\, l r - r^2 - 4 r R\right)}\}$$

$$\left\{\text{X15, 1st ISODYNAMIC POINT, X62, ISOGONAL CONJUGATE OF X(18)},\ \frac{192\,l^2 r^2 R^2 \left(l^2-2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)}{\left(3\,l^2-2\sqrt{3}\,l\,r-3\,r^2-12\,r\,R\right)^2\left(l^2+2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)}\right\}$$

$$\left\{\text{X15, 1st ISODYNAMIC POINT, X63, ISOGONAL CONJUGATE OF X(19)},\ -\left(\left(R\left(2\,l^4 r+2\sqrt{3}\,l^3 r^2-2\,l^2 r^3-2\sqrt{3}\,l\,r^4+l^4 R-18\,l^2 r^2 R-12\sqrt{3}\,l\,r^3 R+r^4 R-16\,l^2 r R^2-16\sqrt{3}\,l\,r^2 R^2+8\,r^3 R^2+16\,r^2 R^3\right)\right)\Big/\left((r+R)^2\left(-l^2-2\sqrt{3}\,l\,r+r^2+4\,r\,R\right)\right)\right)\right\}$$

$$\left\{\text{X15, 1st ISODYNAMIC POINT, X64, ISOGONAL CONJUGATE OF X(20)},\ -\frac{1}{(l-r-2R)^2(l+r+2R)^2\left(l^2+2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)}\right.$$
$$\left.4\,R^2\left(-3\,l^6-2\sqrt{3}\,l^5 r+10\,l^4 r^2+2\sqrt{3}\,l^3 r^3-10\,l^2 r^4-2\sqrt{3}\,l\,r^5+3\,r^6+36\,l^4 r R+16\sqrt{3}\,l^3 r^2 R-76\,l^2 r^3 R-16\sqrt{3}\,l\,r^4 R+36\,r^5 R+28\,l^4 R^2+24\sqrt{3}\,l^3 r R^2-208\,l^2 r^2 R^2-56\sqrt{3}\,l\,r^3 R^2+172\,r^4 R^2-224\,l^2 r R^3-96\sqrt{3}\,l\,r^2 R^3+416\,r^3 R^3-64\,l^2 R^4-64\sqrt{3}\,l\,r R^4+512\,r^2 R^4+256\,r R^5\right)\right\}$$

$$\left\{\text{X15, 1st ISODYNAMIC POINT, X65, ORTHOCENTER OF THE INTOUCH TRIANGLE},\ -\frac{r^2\left(-2\,l^2 r-4\sqrt{3}\,l\,r^2+2\,r^3-l^2 R-6\sqrt{3}\,l\,r R+13\,r^2 R+24\,r R^2+16\,R^3\right)}{R\left(-l^2-2\sqrt{3}\,l\,r+r^2+4\,r\,R\right)}\right\}$$

$$\left\{\text{X15, 1st ISODYNAMIC POINT, X66, ISOGONAL CONJUGATE OF X(22)},\ -\left(\left(2\sqrt{3}\,l^{11} r-8\,l^{10} r^2-18\sqrt{3}\,l^9 r^3+32\,l^8 r^4+44\sqrt{3}\,l^7 r^5-48\,l^6 r^6-44\sqrt{3}\,l^5 r^7+32\,l^4 r^8+18\sqrt{3}\,l^3 r^9-8\,l^2 r^{10}-2\sqrt{3}\,l\,r^{11}-40\sqrt{3}\,l^9 r^2 R+128\,l^8 r^3 R+256\sqrt{3}\,l^7 r^4 R-384\,l^6 r^5 R-432\sqrt{3}\,l^5 r^6 R+384\,l^4 r^7 R+256\sqrt{3}\,l^3 r^8 R-128\,l^2 r^9 R-40\sqrt{3}\,l\,r^{10} R+l^{10} R^2-14\sqrt{3}\,l^9 r R^2+71\,l^8 r^2 R^2+432\sqrt{3}\,l^7 r^3 R^2-986\,l^6 r^4 R^2-1540\sqrt{3}\,l^5 r^5 R^2+1754\,l^4 r^6 R^2+1456\sqrt{3}\,l^3 r^7 R^2-839\,l^2 r^8 R^2-334\sqrt{3}\,l\,r^9 R^2-r^{10} R^2-20\,l^8 r R^3+224\sqrt{3}\,l^7 r^2 R^3-832\,l^6 r^3 R^3-2400\sqrt{3}\,l^5 r^4 R^3+3752\,l^4 r^5 R^3+4192\sqrt{3}\,l^3 r^6 R^3-2880\,l^2 r^7 R^3-1504\sqrt{3}\,l\,r^8 R^3-20\,r^9 R^3-4\,l^8 R^4+24\sqrt{3}\,l^7 r R^4-64\,l^6 r^2 R^4-1544\sqrt{3}\,l^5 r^3 R^4+3624\,l^4 r^4 R^4+6344\sqrt{3}\,l^3 r^5 R^4-5440\,l^2 r^6 R^4-3928\sqrt{3}\,l\,r^7 R^4-164\,r^8 R^4+64\,l^6 r R^5-288\sqrt{3}\,l^5 r^2 R^5+1088\,l^4 r^3 R^5+4672\sqrt{3}\,l^3 r^4 R^5-5312\,l^2 r^5 R^5-5920\sqrt{3}\,l\,r^6 R^5-704\,r^7 R^5-144\,l^4 r^2 R^6+1248\sqrt{3}\,l^3 r^3 R^6-2032\,l^2 r^4 R^6-4736\sqrt{3}\,l\,r^5 R^6-1664\,r^6 R^6+64\,l^2 r^3 R^7-1536\sqrt{3}\,l\,r^4 R^7-2048\,r^5 R^7-1024\,r^4 R^8\right)\Big/\left((l-r-2R)^2(l+r+2R)^2\left(l^2-r^2-4\,r\,R\right)^2\left(l^2+2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)\right)\right)\right\}$$

$$\left\{\text{X15, 1st ISODYNAMIC POINT, X67, ISOGONAL CONJUGATE OF X(23)},\ \left(l^{10}-2\sqrt{3}\,l^9 r+15\,l^8 r^2+32\sqrt{3}\,l^7 r^3-50\,l^6 r^4-60\sqrt{3}\,l^5 r^5+50\,l^4 r^6+32\sqrt{3}\,l^3 r^7-15\,l^2 r^8-2\sqrt{3}\,l\,r^9-r^{10}-20\,l^8 r R+32\sqrt{3}\,l^7 r^2 R-160\,l^6 r^3 R-288\sqrt{3}\,l^5 r^4 R+360\,l^4 r^5 R+288\sqrt{3}\,l^3 r^6 R-160\,l^2 r^7 R-32\sqrt{3}\,l\,r^8 R-20\,r^9 R-4\,l^8 R^2+8\sqrt{3}\,l^7 r R^2+8\,l^6 r^2 R^2-360\sqrt{3}\,l^5 r^3 R^2+792\,l^4 r^4 R^2+936\sqrt{3}\,l^3 r^5 R^2-632\,l^2 r^6 R^2-200\sqrt{3}\,l\,r^7 R^2-164\,r^8 R^2+64\,l^6 r R^3-96\sqrt{3}\,l^5 r^2 R^3+512\,l^4 r^3 R^3+1280\sqrt{3}\,l^3 r^4 R^3-1152\,l^2 r^5 R^3-608\sqrt{3}\,l\,r^6 R^3-704\,r^7 R^3-60\,l^4 r^2 R^4+600\sqrt{3}\,l^3 r^3 R^4-964\,l^2 r^4 R^4-896\sqrt{3}\,l\,r^5 R^4-1664\,r^6 R^4-272\,l^2 r^3 R^5-512\sqrt{3}\,l\,r^4 R^5-2048\,r^5 R^5-1024\,r^4 R^6\right)\Big/\left(\left(l^2-r^2-4\,r\,R\right)^2\left(l^2+2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)\left(2\,l^2-2\,r^2-8\,r\,R-9\,R^2\right)\right)\right\}$$

$$\Big\{\text{X15, 1st ISODYNAMIC POINT, X68, PRASOLOV POINT,}$$

$$-\frac{1}{(l-r-2R)^2\,(l+r+2R)^2\left(l^2+2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)}$$

$$\Big(2\sqrt{3}\,l^7 r-8\,l^6 r^2-14\sqrt{3}\,l^5 r^3+16\,l^4 r^4+14\sqrt{3}\,l^3 r^5-8\,l^2 r^6-2\sqrt{3}\,l\,r^7-24\sqrt{3}\,l^5 r^2 R+$$
$$64\,l^4 r^3 R+80\sqrt{3}\,l^3 r^4 R-64\,l^2 r^5 R-24\sqrt{3}\,l\,r^6 R-l^6 R^2-18\sqrt{3}\,l^5 r R^2+71\,l^4 r^2 R^2+$$
$$172\sqrt{3}\,l^3 r^3 R^2-199\,l^2 r^4 R^2-114\sqrt{3}\,l\,r^5 R^2+r^6 R^2+12\,l^4 r R^3+144\sqrt{3}\,l^3 r^2 R^3-$$
$$296\,l^2 r^3 R^3-272\sqrt{3}\,l\,r^4 R^3+12\,r^5 R^3+4\,l^4 R^4+48\sqrt{3}\,l^3 r R^4-184\,l^2 r^2 R^4-336\sqrt{3}\,l\,r^3 R^4+$$
$$52\,r^4 R^4-32\,l^2 r R^5-192\sqrt{3}\,l\,r^2 R^5+96\,r^3 R^5-4\,l^2 R^6-40\sqrt{3}\,l\,r R^6+68\,r^2 R^6+16\,r R^7\Big)\Big\}$$

$$\Big\{\text{X15, 1st ISODYNAMIC POINT, X69, SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE,}$$

$$\Big(l^8+8\,l^6 r^2+16\sqrt{3}\,l^5 r^3-18\,l^4 r^4-16\sqrt{3}\,l^3 r^5+8\,l^2 r^6+r^8-16\,l^6 r R-48\,l^4 r^3 R-64\sqrt{3}\,l^3 r^4 R+$$
$$48\,l^2 r^5 R+16\,r^7 R-96\sqrt{3}\,l^3 r^3 R^2+96\,l^2 r^4 R^2+96\,r^6 R^2+128\,l^2 r^3 R^3+256\,r^5 R^3+256\,r^4 R^4\Big)\Big/$$
$$\Big(\left(l^2-r^2-4\,r\,R\right)^2\left(l^2+2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)\Big)\Big\}$$

$$\Big\{\text{X15, 1st ISODYNAMIC POINT, X70, ISOGONAL CONJUGATE OF X(26),}$$

$$-\Big(\Big(2\sqrt{3}\,l^{11} r-8\,l^{10} r^2-18\sqrt{3}\,l^9 r^3+32\,l^8 r^4+44\sqrt{3}\,l^7 r^5-48\,l^6 r^6-44\sqrt{3}\,l^5 r^7+32\,l^4 r^8+$$
$$18\sqrt{3}\,l^3 r^9-8\,l^2 r^{10}-2\sqrt{3}\,l\,r^{11}-40\sqrt{3}\,l^9 r^2 R+128\,l^8 r^3 R+256\sqrt{3}\,l^7 r^4 R-384\,l^6 r^5 R-$$
$$432\sqrt{3}\,l^5 r^6 R+384\,l^4 r^7 R+256\sqrt{3}\,l^3 r^8 R-128\,l^2 r^9 R-40\sqrt{3}\,l\,r^{10} R-24\sqrt{3}\,l^9 r R^2+$$
$$104\,l^8 r^2 R^2+496\sqrt{3}\,l^7 r^3 R^2-1080\,l^6 r^4 R^2-1648\sqrt{3}\,l^5 r^5 R^2+1848\,l^4 r^6 R^2+1520\sqrt{3}\,l^3 r^7 R^2-$$
$$872\,l^2 r^8 R^2-344\sqrt{3}\,l\,r^9 R^2+384\sqrt{3}\,l^7 r^2 R^3-1248\,l^6 r^3 R^3-3072\sqrt{3}\,l^5 r^4 R^3+4544\,l^4 r^5 R^3+$$
$$4864\sqrt{3}\,l^3 r^6 R^3-3296\,l^2 r^7 R^3-1664\sqrt{3}\,l\,r^8 R^3+l^8 R^4+106\sqrt{3}\,l^7 r R^4-488\,l^6 r^2 R^4-$$
$$2886\sqrt{3}\,l^5 r^3 R^4+5966\,l^4 r^4 R^4+9030\sqrt{3}\,l^3 r^5 R^4-7528\,l^2 r^6 R^4-4970\sqrt{3}\,l\,r^7 R^4+$$
$$r^8 R^4-16\,l^6 r R^5-1272\sqrt{3}\,l^5 r^2 R^5+3920\,l^4 r^3 R^5+9744\sqrt{3}\,l^3 r^4 R^5-10\,576\,l^2 r^5 R^5-$$
$$9464\sqrt{3}\,l\,r^6 R^5+16\,r^7 R^5-6\,l^6 R^6-212\sqrt{3}\,l^5 r R^6+1042\,l^4 r^2 R^6+5800\sqrt{3}\,l^3 r^3 R^6-$$
$$8882\,l^2 r^4 R^6-11\,444\sqrt{3}\,l\,r^5 R^6+102\,r^6 R^6+72\,l^4 r R^7+1696\sqrt{3}\,l^3 r^2 R^7-4112\,l^2 r^3 R^7-$$
$$8480\sqrt{3}\,l\,r^4 R^7+328\,r^5 R^7+9\,l^4 R^8+192\sqrt{3}\,l^3 r R^8-894\,l^2 r^2 R^8-3584\sqrt{3}\,l\,r^3 R^8+553\,r^4 R^8-$$
$$72\,l^2 r R^9-768\sqrt{3}\,l\,r^2 R^9+456\,r^3 R^9-4\,l^2 R^{10}-64\sqrt{3}\,l\,r R^{10}+148\,r^2 R^{10}+16\,r R^{11}\Big)\Big/$$
$$\Big(\left(l^2+2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)\left(l^4-2\,l^2 r^2+r^4-8\,l^2 r R+8\,r^3 R-6\,l^2 R^2+22\,r^2 R^2+24\,r R^3+7\,R^4\right)^2\Big)\Big)\Big\}$$

$$\Big\{\text{X15, 1st ISODYNAMIC POINT, X71, ISOGONAL CONJUGATE OF X(27),}$$

$$\Big(4\,l^2 R^2\Big(3\,l^4+2\sqrt{3}\,l^3 r-8\,l^2 r^2-6\sqrt{3}\,l\,r^3-3\,r^4-16\,l^2 r R-24\sqrt{3}\,l\,r^2 R-24\,r^3 R+4\,l^2 R^2-$$
$$24\sqrt{3}\,l\,r R^2-60\,r^2 R^2-48\,r R^3\Big)\Big)\Big/\Big(\left(l^2+2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)\left(l^2+r^2+6\,r\,R+8\,R^2\right)^2\Big)\Big\}$$

$$\Big\{\text{X15, 1st ISODYNAMIC POINT, X72, ISOGONAL CONJUGATE OF X(28),}$$

$$-\Big(\Big(l^4 r+2\sqrt{3}\,l^3 r^2-2\,l^2 r^3-2\sqrt{3}\,l\,r^4+r^5+l^4 R-9\,l^2 r^2 R-10\sqrt{3}\,l\,r^3 R+8\,r^4 R-$$
$$16\,l^2 r R^2-12\sqrt{3}\,l\,r^2 R^2+20\,r^3 R^2+16\,r^2 R^3\Big)\Big/\Big(R\left(-l^2-2\sqrt{3}\,l\,r+r^2+4\,r\,R\right)\Big)\Big)\Big\}$$

$$\Big\{\text{X15, 1st ISODYNAMIC POINT, X73, CROSSPOINT OF INCENTER AND CIRCUMCENTER,}$$

$$\Big(4\,r^2 R^2\Big(-3\,l^4+6\sqrt{3}\,l^3 r-8\,l^2 r^2-2\sqrt{3}\,l\,r^3+3\,r^4+4\,l^2 r R-16\sqrt{3}\,l\,r^2 R+20\,r^3 R+28\,l^2 R^2-$$
$$24\sqrt{3}\,l\,r R^2+28\,r^2 R^2-32\,r R^3-64\,R^4\Big)\Big)\Big/\Big(\left(-l^2-2\sqrt{3}\,l\,r+r^2+4\,r\,R\right)\left(l^2+r^2-2\,r\,R-4\,R^2\right)^2\Big)\Big\}$$

$$\Big\{\text{X15, 1st ISODYNAMIC POINT, X74, ISOGONAL CONJUGATE OF EULER INFINITY POINT,}$$

$$\frac{3\,R^2\left(3\,l^4-10\,l^2 r^2+3\,r^4-24\,l^2 r R+24\,r^3 R-12\,l^2 R^2+60\,r^2 R^2+48\,r R^3\right)}{\left(l^2+2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)\left(2\,l^2-2\,r^2-8\,r\,R-9\,R^2\right)}\Big\}$$

$$\left\{\text{X15, 1st ISODYNAMIC POINT, X75, ISOTOMIC CONJUGATE OF INCENTER},\right.$$
$$\left(l^8+4 l^6 r^2+6 l^4 r^4+4 l^2 r^6+r^8-16 l^6 r R-16 \sqrt{3}\, l^5 r^2 R+32 l^4 r^3 R+48 \sqrt{3}\, l^3 r^4 R+16 r^7 R+\right.$$
$$\left.32 l^4 r^2 R^2+96 \sqrt{3}\, l^3 r^3 R^2-96 l^2 r^4 R^2+96 r^6 R^2-128 l^2 r^3 R^3+256 r^5 R^3+256 r^4 R^4\right)\Big/$$
$$\left.\left(\left(l^2+2 \sqrt{3}\, l r-r^2-4 r R\right)\left(l^2+r^2+4 r R\right)^2\right)\right\}$$

$$\left\{\text{X15, 1st ISODYNAMIC POINT, X76, 3rd BROCARD POINT},\right.$$
$$\left(l^{12}+6 l^{10} r^2+15 l^8 r^4+20 l^6 r^6+15 l^4 r^8+6 l^2 r^{10}+r^{12}-24 l^{10} r R-\right.$$
$$72 l^8 r^3 R-48 l^6 r^5 R+48 l^4 r^7 R+72 l^2 r^9 R+24 r^{11} R+144 l^8 r^2 R^2-64 \sqrt{3}\, l^7 r^3 R^2+$$
$$352 l^6 r^4 R^2+384 \sqrt{3}\, l^5 r^5 R^2-256 l^4 r^6 R^2-64 \sqrt{3}\, l^3 r^7 R^2+288 l^2 r^8 R^2+240 r^{10} R^2-$$
$$128 l^6 r^3 R^3+512 \sqrt{3}\, l^5 r^4 R^3-1024 l^4 r^5 R^3-512 \sqrt{3}\, l^3 r^6 R^3+384 l^2 r^7 R^3+$$
$$\left.1280 r^9 R^3-768 l^4 r^4 R^4-1024 \sqrt{3}\, l^3 r^5 R^4+3840 r^8 R^4+6144 r^7 R^5+4096 r^6 R^6\right)\Big/$$
$$\left.\left(\left(l^2+2 \sqrt{3}\, l r-r^2-4 r R\right)\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)^2\right)\right\}$$

$$\left\{\text{X15, 1st ISODYNAMIC POINT, X77, ISOGONAL CONJUGATE OF X(33)},\right.$$
$$-\left(\left(r^2 R\left(-\sqrt{3}\, l+r+4 R\right)\left(2 l^4-2 l^2 r^2-3 \sqrt{3}\, l^3 R-7 l^2 r R+\sqrt{3}\, l r^2 R+r^3 R-20 l^2 R^2+8 \sqrt{3}\, l r R^2+\right.\right.\right.$$
$$\left.\left.\left.12 r^2 R^2+16 \sqrt{3}\, l R^3+48 r R^3+64 R^4\right)\right)\Big/\left(\left(-l^2-2 \sqrt{3}\, l r+r^2+4 r R\right)\left(-l^2+r R+4 R^2\right)^2\right)\right)\right\}$$

$$\left\{\text{X15, 1st ISODYNAMIC POINT, X78, ISOGONAL CONJUGATE OF X(34)},\right.$$
$$-\left(\left(R\left(2 \sqrt{3}\, l^3 r^2-2 l^2 r^3-2 \sqrt{3}\, l r^4+2 r^5+l^4 R+2 l^2 r^2 R-12 \sqrt{3}\, l r^3 R+13 r^4 R-16 l^2 r R^2-\right.\right.\right.$$
$$\left.\left.\left.8 \sqrt{3}\, l r^2 R^2+24 r^3 R^2+16 r^2 R^3\right)\right)\Big/\left((r-R)^2\left(-l^2-2 \sqrt{3}\, l r+r^2+4 r R\right)\right)\right)\right\}$$

$$\left\{\text{X15, 1st ISODYNAMIC POINT, X79, ISOGONAL CONJUGATE OF X(35)},\right.$$
$$-\left(\left(4 r^2\left(-2 l^4-6 \sqrt{3}\, l^3 r+6 l^2 r^2+2 \sqrt{3}\, l r^3-3 \sqrt{3}\, l^3 R+17 l^2 r R+13 \sqrt{3}\, l r^2 R+r^3 R+6 l^2 R^2+24\right.\right.\right.$$
$$\left.\left.\left.\sqrt{3}\, l r R^2+10 r^2 R^2+9 \sqrt{3}\, l R^3+33 r R^3+36 R^4\right)\right)\Big/\left((2 r+3 R)^2\left(-l^2-2 \sqrt{3}\, l r+r^2+4 r R\right)\right)\right)\right\}$$

$$\left\{\text{X15, 1st ISODYNAMIC POINT, X80, REFLECTION OF INCENTER IN FEUERBACH POINT},\right.$$
$$\left.\frac{4 r^2\left(\sqrt{3}\, l^3-3 l^2 r-3 \sqrt{3}\, l r^2+r^3-6 \sqrt{3}\, l r R+6 r^2 R-3 \sqrt{3}\, l R^2+9 r R^2+4 R^3\right)}{(2 r-R)\left(-l^2-2 \sqrt{3}\, l r+r^2+4 r R\right)}\right\}$$

$$\left\{\text{X15, 1st ISODYNAMIC POINT, X81, CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},\right.$$
$$-\left(\left(r^2 R\left(-2 \sqrt{3}\, l^5-4 \sqrt{3}\, l^3 r^2-2 \sqrt{3}\, l r^4+13 l^4 R-12 \sqrt{3}\, l^3 r R-2 l^2 r^2 R-12 \sqrt{3}\, l r^3 R+r^4 R+\right.\right.\right.$$
$$\left.\left.\left.16 l^2 r R^2-16 \sqrt{3}\, l r^2 R^2+8 r^3 R^2+16 r^2 R^3\right)\right)\Big/\left(\left(-l^2+r^2+r R\right)^2\left(-l^2-2 \sqrt{3}\, l r+r^2+4 r R\right)\right)\right)\right\}$$

$$\left\{\text{X15, 1st ISODYNAMIC POINT, X82, ISOGONAL CONJUGATE OF X(38)},\right.$$
$$-\left(\left(r^2 R\left(-2 \sqrt{3}\, l^9-2 l^8 r-4 \sqrt{3}\, l^7 r^2-4 l^6 r^3+4 \sqrt{3}\, l^3 r^6+4 l^2 r^7+2 \sqrt{3}\, l r^8+2 r^9+13 l^8 R+\right.\right.\right.$$
$$28 \sqrt{3}\, l^7 r R-40 l^6 r^2 R+12 \sqrt{3}\, l^5 r^3 R+114 l^4 r^4 R+4 \sqrt{3}\, l^3 r^5 R-48 l^2 r^6 R+$$
$$20 \sqrt{3}\, l r^7 R+41 r^8 R-192 l^6 r R^2-128 \sqrt{3}\, l^5 r^2 R^2+672 l^4 r^3 R^2+48 \sqrt{3}\, l^3 r^4 R^2-$$
$$720 l^2 r^5 R^2+48 \sqrt{3}\, l r^6 R^2+336 r^7 R^2+1152 l^4 r^2 R^3+288 \sqrt{3}\, l^3 r^3 R^3-2624 l^2 r^4 R^3-$$
$$\left.\left.\left.64 \sqrt{3}\, l r^5 R^3+1376 r^6 R^3-3072 l^2 r^3 R^4-256 \sqrt{3}\, l r^4 R^4+2816 r^5 R^4+2304 r^4 R^5\right)\right)\Big/$$
$$\left.\left.\left(\left(-l^2-2 \sqrt{3}\, l r+r^2+4 r R\right)\left(l^4-4 l^2 r^2+3 r^4-9 l^2 r R+19 r^3 R+28 r^2 R^2\right)^2\right)\right)\right\}$$

{X15, 1st ISODYNAMIC POINT, X83, CEVAPOINT OF CENTROID AND SYMMEDIAN POINT,

$$\left(l^{12}-8\sqrt{3}\,l^{11}r+6\,l^{10}r^2-24\sqrt{3}\,l^9r^3+15\,l^8r^4-16\sqrt{3}\,l^7r^5+20\,l^6r^6+16\sqrt{3}\,l^5r^7+15\,l^4r^8+24\sqrt{3}\,l^3r^9+6\,l^2r^{10}+8\sqrt{3}\,l\,r^{11}+r^{12}-24\,l^{10}rR+160\sqrt{3}\,l^9r^2R-72\,l^8r^3R+128\sqrt{3}\,l^7r^4R-48\,l^6r^5R-64\sqrt{3}\,l^5r^6R+48\,l^4r^7R+128\sqrt{3}\,l^3r^8R+72\,l^2r^9R+160\sqrt{3}\,l\,r^{10}R+24\,r^{11}R+432\,l^8r^2R^2-1216\sqrt{3}\,l^7r^3R^2-128\,l^6r^4R^2+896\sqrt{3}\,l^5r^5R^2+224\,l^4r^6R^2-704\sqrt{3}\,l^3r^7R^2+1280\sqrt{3}\,l\,r^9R^2+240\,r^{10}R^2-3584\,l^6r^3R^3+4608\sqrt{3}\,l^5r^4R^3+4352\,l^4r^5R^3-5632\sqrt{3}\,l^3r^6R^3-3072\,l^2r^7R^3+5120\sqrt{3}\,l\,r^8R^3+1280\,r^9R^3+13056\,l^4r^4R^4-9216\sqrt{3}\,l^3r^5R^4-13824\,l^2r^6R^4+10240\sqrt{3}\,l\,r^7R^4+3840\,r^8R^4-18432\,l^2r^5R^5+8192\sqrt{3}\,l\,r^6R^5+6144\,r^7R^5+4096\,r^6R^6\right)\Big/\left(\left(l^2+2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)\left(5\,l^4-6\,l^2r^2+5\,r^4-40\,l^2r\,R+40\,r^3R+80\,r^2R^2\right)^2\right)\}$$

{X15, 1st ISODYNAMIC POINT, X84, ISOGONAL CONJUGATE OF X(40),

$$\left(4\,R\left(-l^4r-\sqrt{3}\,l^3r^2+l^4R+2\sqrt{3}\,l^3r\,R+5\,l^2r^2R-4\,l^2r\,R^2-4\sqrt{3}\,l\,r^2R^2-4\,l^2R^3-8\sqrt{3}\,l\,r\,R^3+4\,r^2R^3+16\,r\,R^4\right)\right)\Big/\left(r^2\left(-l^2-2\sqrt{3}\,l\,r+r^2+4\,r\,R\right)\right)\}$$

{X15, 1st ISODYNAMIC POINT, X85, ISOTOMIC CONJUGATE OF X(9),

$$\frac{1}{\left(l^2+2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)\left(l^2+r^2+8\,r\,R+16\,R^2\right)^2}\left(l^8+4\,l^6r^2+6\,l^4r^4+4\,l^2r^6+r^8-24\,l^6r\,R-48\sqrt{3}\,l^5r^2R+56\,l^4r^3R+16\sqrt{3}\,l^3r^4R+40\,l^2r^5R+24\,r^7R-32\sqrt{3}\,l^5r\,R^2+144\,l^4r^2R^2+128\sqrt{3}\,l^3r^3R^2+96\,l^2r^4R^2+240\,r^6R^2+64\,l^4r\,R^3+256\sqrt{3}\,l^3r^2R^3-128\,l^2r^3R^3+1280\,r^5R^3-512\,l^2r^2R^4+3840\,r^4R^4+6144\,r^3R^5+4096\,r^2R^6\right)\}$$

{X15, 1st ISODYNAMIC POINT, X86, CEVAPOINT OF INCENTER AND CENTROID,

$$\left(l^8-8\sqrt{3}\,l^7r+12\,l^6r^2-16\sqrt{3}\,l^5r^3+22\,l^4r^4-8\sqrt{3}\,l^3r^5+12\,l^2r^6+r^8+80\,l^4r^3R+96\,l^2r^5R+16\,r^7R+160\,l^4r^2R^2+32\sqrt{3}\,l^3r^3R^2+288\,l^2r^4R^2+96\,r^6R^2+384\,l^2r^3R^3+256\,r^5R^3+256\,r^4R^4\right)\Big/\left(\left(l^2+2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)\left(5\,l^2+r^2+4\,r\,R\right)^2\right)\}$$

{X15, 1st ISODYNAMIC POINT, X87, X(2)-CROSS CONJUGATE OF X(1),

$$\left(4\,r^2R\left(-\sqrt{3}\,l^9+l^8r-4\sqrt{3}\,l^7r^2+4\,l^6r^3-6\sqrt{3}\,l^5r^4+6\,l^4r^5-4\sqrt{3}\,l^3r^6+4\,l^2r^7-\sqrt{3}\,l\,r^8+r^9-4\,l^8R+28\sqrt{3}\,l^7r\,R-28\,l^6r^2R+52\sqrt{3}\,l^5r^3R-28\,l^4r^4R+20\sqrt{3}\,l^3r^5R+12\,l^2r^6R-4\sqrt{3}\,l\,r^7R+16\,r^8R+112\,l^6r\,R^2-208\sqrt{3}\,l^5r^2R^2+64\,l^4r^3R^2-160\sqrt{3}\,l^3r^4R^2+48\,l^2r^5R^2+48\sqrt{3}\,l\,r^6R^2+96\,r^7R^2-832\,l^4r^2R^3+320\sqrt{3}\,l^3r^3R^3+448\,l^2r^4R^3+320\sqrt{3}\,l\,r^5R^3+256\,r^6R^3+768\,l^2r^3R^4+512\sqrt{3}\,l\,r^4R^4+256\,r^5R^4\right)\right)\Big/\left(\left(-l^2-2\sqrt{3}\,l\,r+r^2+4\,r\,R\right)\left(l^4+2\,l^2r^2+r^4-20\,l^2r\,R+12\,r^3R+32\,r^2R^2\right)^2\right)\}$$

{X15, 1st ISODYNAMIC POINT, X88, ISOGONAL CONJUGATE OF X(44),

$$\left(r^2R\left(2\sqrt{3}\,l^5-8\,l^4r+12\sqrt{3}\,l^3r^2-72\,l^2r^3-54\sqrt{3}\,l\,r^4+13\,l^4R-60\sqrt{3}\,l^3r\,R+126\,l^2r^2R-108\sqrt{3}\,l\,r^3R+81\,r^4R-288\,l^2r\,R^2+432\sqrt{3}\,l\,r^2R^2+648\,r^3R^2+1296\,r^2R^3\right)\right)\Big/\left(\left(l^2+3\,r^2-15\,r\,R\right)^2\left(l^2+2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)\right)\}$$

{X15, 1st ISODYNAMIC POINT, X89, ISOGONAL CONJUGATE OF X(45),

$$\left(r^2R\left(-4\sqrt{3}\,l^5-8\,l^4r-48\sqrt{3}\,l^3r^2-72\,l^2r^3-108\sqrt{3}\,l\,r^4+49\,l^4R-84\sqrt{3}\,l^3r\,R-198\,l^2r^2R-540\sqrt{3}\,l\,r^3R+81\,r^4R+360\,l^2r\,R^2-432\sqrt{3}\,l\,r^2R^2+648\,r^3R^2+1296\,r^2R^3\right)\right)\Big/\left(\left(l^2+2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)\left(2\,l^2-6\,r^2+3\,r\,R\right)^2\right)\}$$

$$\left\{\text{X15, 1st ISODYNAMIC POINT, X90, X(3)-CROSS CONJUGATE OF X(1)},\right.$$
$$-\left(\left(4 r^2 R \left(l^4 r+\sqrt{3}\, l^3 r^2-2\sqrt{3}\, l^3 r R-4 l^2 r^2 R+\sqrt{3}\, l^3 R^2-6 l^2 r R^2+\sqrt{3}\, l r^2 R^2+2\sqrt{3}\, l r R^3-3\sqrt{3}\, l R^4+r R^4+4 R^5\right)\right)\Big/\left(\left(-l^2-2\sqrt{3}\, l r+r^2+4 r R\right)\left(r^2+2 r R-R^2\right)^2\right)\right)\Big\}$$

$$\left\{\text{X15, 1st ISODYNAMIC POINT, X91, ISOGONAL CONJUGATE OF X(47)},\right.$$
$$-\left(\left(r^2\left(l^8+4 l^6 r^2+6 l^4 r^4+4 l^2 r^6+r^8+2\sqrt{3}\, l^7 R-22 l^6 r R-18\sqrt{3}\, l^5 r^2 R+22 l^4 r^3 R+38\sqrt{3}\, l^3 r^4 R-2 l^2 r^5 R-6\sqrt{3}\, l r^6 R+18 r^7 R-8 l^6 R^2-28\sqrt{3}\, l^5 r R^2+84 l^4 r^2 R^2+136\sqrt{3}\, l^3 r^3 R^2-128 l^2 r^4 R^2-60\sqrt{3}\, l r^5 R^2+132 r^6 R^2-12\sqrt{3}\, l^5 R^3+140 l^4 r R^3+184\sqrt{3}\, l^3 r^2 R^3-408 l^2 r^3 R^3-220\sqrt{3}\, l r^4 R^3+508 r^5 R^3+36 l^4 R^4+112\sqrt{3}\, l^3 r R^4-584 l^2 r^2 R^4-368\sqrt{3}\, l r^3 R^4+1108 r^4 R^4+24\sqrt{3}\, l^3 R^5-392 l^2 r R^5-296\sqrt{3}\, l r^2 R^5+1400 r^3 R^5-80 l^2 R^6-112\sqrt{3}\, l r R^6+1024 r^2 R^6-16\sqrt{3}\, l R^7+400 r R^7+64 R^8\right)\right)\Big/\left(\left(-l^2-2\sqrt{3}\, l r+r^2+4 r R\right)\left(l^2 r+r^3-l^2 R+3 r^2 R+2 r R^2+2 R^3\right)^2\right)\right)\Big\}$$

$$\left\{\text{X15, 1st ISODYNAMIC POINT, X92,}\right.$$
$$\text{CEVAPOINT OF INCENTER AND CLAWSON POINT, }\frac{1}{\left(l^2+2\sqrt{3}\, l r-r^2-4 r R\right)\left(l^2+r^2-4 R^2\right)^2}$$
$$\left(l^8+4 l^6 r^2+6 l^4 r^4+4 l^2 r^6+r^8-24 l^6 r R-24\sqrt{3}\, l^5 r^2 R+16 l^4 r^3 R+32\sqrt{3}\, l^3 r^4 R-8 l^2 r^5 R-8\sqrt{3}\, l r^6 R+16 r^7 R-8 l^6 R^2+104 l^4 r^2 R^2+144\sqrt{3}\, l^3 r^3 R^2-136 l^2 r^4 R^2-80\sqrt{3}\, l r^5 R^2+104 r^6 R^2+160 l^4 r R^3+160\sqrt{3}\, l^3 r^2 R^3-384 l^2 r^3 R^3-288\sqrt{3}\, l r^4 R^3+352 r^5 R^3+16 l^4 R^4-480 l^2 r^2 R^4-448\sqrt{3}\, l r^3 R^4+656 r^4 R^4-256 l^2 r R^5-256\sqrt{3}\, l r^2 R^5+640 r^3 R^5+256 r^2 R^6\right)\Big\}$$

$$\left\{\text{X15, 1st ISODYNAMIC POINT, X93, ISOGONAL CONJUGATE OF X(49)},\right.$$
$$\left(l^{12}+6 l^{10} r^2+15 l^8 r^4+20 l^6 r^6+15 l^4 r^8+6 l^2 r^{10}+r^{12}-24 l^{10} r R-72 l^8 r^3 R-48 l^6 r^5 R+48 l^4 r^7 R+72 l^2 r^9 R+24 r^{11} R-10 l^{10} R^2+8\sqrt{3}\, l^9 r R^2+66 l^8 r^2 R^2-128\sqrt{3}\, l^7 r^3 R^2+284 l^6 r^4 R^2+240\sqrt{3}\, l^5 r^5 R^2-188 l^4 r^6 R^2-128\sqrt{3}\, l^3 r^7 R^2+366 l^2 r^8 R^2+8\sqrt{3}\, l r^9 R^2+250 r^{10} R^2+200 l^8 r R^3-128\sqrt{3}\, l^7 r^2 R^3+608 l^6 r^3 R^3+1152\sqrt{3}\, l^5 r^4 R^3-1488 l^4 r^5 R^3-1152\sqrt{3}\, l^3 r^6 R^3+1120 l^2 r^7 R^3+128\sqrt{3}\, l r^8 R^3+1480 r^9 R^3+32 l^8 R^4-76\sqrt{3}\, l^7 r R^4-312 l^6 r^2 R^4+1716\sqrt{3}\, l^5 r^3 R^4-3696 l^4 r^4 R^4-4020\sqrt{3}\, l^3 r^5 R^4+2632 l^2 r^6 R^4+844\sqrt{3}\, l r^7 R^4+5472 r^8 R^4-512 l^6 r R^5+912\sqrt{3}\, l^5 r^2 R^5-3392 l^4 r^3 R^5-6752\sqrt{3}\, l^3 r^4 R^5+5184 l^2 r^5 R^5+2960\sqrt{3}\, l r^6 R^5+13056 r^7 R^5-34 l^6 R^6+240\sqrt{3}\, l^5 r R^6-354 l^4 r^2 R^6-5472\sqrt{3}\, l^3 r^3 R^6+7138 l^2 r^4 R^6+5936\sqrt{3}\, l r^5 R^6+20002 r^6 R^6+408 l^4 r R^7-1920\sqrt{3}\, l^3 r^2 R^7+5104 l^2 r^3 R^7+6784\sqrt{3}\, l r^4 R^7+18840 r^5 R^7+7 l^4 R^8-284\sqrt{3}\, l^3 r R^8+1110 l^2 r^2 R^8+4124\sqrt{3}\, l r^3 R^8+9831 r^4 R^8-56 l^2 r R^9+1136\sqrt{3}\, l r^2 R^9+2232 r^3 R^9+4 l^2 R^{10}+112\sqrt{3}\, l r R^{10}+108 r^2 R^{10}-16 r R^{11}\right)\Big/\left(\left(l^2+2\sqrt{3}\, l r-r^2-4 r R\right)\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-8 l^2 R^2+24 r^2 R^2+32 r R^3+13 R^4\right)^2\right)\Big\}$$

$$\Big\{\text{X15, 1st ISODYNAMIC POINT, X94, ISOGONAL CONJUGATE OF X(50)},$$
$$\Big(l^{12}+6 l^{10} r^2+15 l^8 r^4+20 l^6 r^6+15 l^4 r^8+6 l^2 r^{10}+r^{12}-24 l^{10} r R-72 l^8 r^3 R-48 l^6 r^5 R+$$
$$48 l^4 r^7 R+72 l^2 r^9 R+24 r^{11} R-12 l^{10} R^2+12 \sqrt{3}\, l^9 r R^2+60 l^8 r^2 R^2-112 \sqrt{3}\, l^7 r^3 R^2+$$
$$280 l^6 r^4 R^2+264 \sqrt{3}\, l^5 r^5 R^2-184 l^4 r^6 R^2-112 \sqrt{3}\, l^3 r^7 R^2+372 l^2 r^8 R^2+12 \sqrt{3}\, l r^9 R^2+$$
$$252 r^{10} R^2+240 l^8 r R^3-192 \sqrt{3}\, l^7 r^2 R^3+640 l^6 r^3 R^3+1088 \sqrt{3}\, l^5 r^4 R^3-1504 l^4 r^5 R^3-$$
$$1088 \sqrt{3}\, l^3 r^6 R^3+1152 l^2 r^7 R^3+192 \sqrt{3}\, l r^8 R^3+1520 r^9 R^3+54 l^8 R^4-108 \sqrt{3}\, l^7 r R^4-$$
$$480 l^6 r^2 R^4+1812 \sqrt{3}\, l^5 r^3 R^4-3756 l^4 r^4 R^4-3988 \sqrt{3}\, l^3 r^5 R^4+2592 l^2 r^6 R^4+$$
$$1260 \sqrt{3}\, l r^7 R^4+5814 r^8 R^4-864 l^6 r R^5+1296 \sqrt{3}\, l^5 r^2 R^5-2976 l^4 r^3 R^5-7008 \sqrt{3}\, l^3 r^4 R^5+$$
$$4512 l^2 r^5 R^5+4368 \sqrt{3}\, l r^6 R^5+14688 r^7 R^5-108 l^6 R^6+324 \sqrt{3}\, l^5 r R^6+756 l^4 r^2 R^6-$$
$$6264 \sqrt{3}\, l^3 r^3 R^6+5196 l^2 r^4 R^6+8580 \sqrt{3}\, l r^5 R^6+24748 r^6 R^6+1296 l^4 r R^7-2592 \sqrt{3}\, l^3 r^2 R^7+$$
$$2592 l^2 r^3 R^7+9504 \sqrt{3}\, l r^4 R^7+27408 r^5 R^7+81 l^4 R^8-324 \sqrt{3}\, l^3 r R^8-486 l^2 r^2 R^8+$$
$$5508 \sqrt{3}\, l r^3 R^8+19089 r^4 R^8-648 l^2 r R^9+1296 \sqrt{3}\, l r^2 R^9+7560 r^3 R^9+1296 r^2 R^{10}\Big)\Big/$$
$$\Big(\Big(l^2+2 \sqrt{3}\, l r-r^2-4 r R\Big)\Big(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-12 l^2 R^2+28 r^2 R^2+48 r R^3+27 R^4\Big)^2\Big)\Big\}$$

$$\Big\{\text{X15, 1st ISODYNAMIC POINT, X95, CEVAPOINT OF CENTROID AND CIRCUMCENTER},$$
$$\Big(l^{12}+22 l^{10} r^2+79 l^8 r^4+116 l^6 r^6+79 l^4 r^8+22 l^2 r^{10}+r^{12}-24 l^{10} r R-328 l^8 r^3 R-304 l^6 r^5 R+$$
$$304 l^4 r^7 R+328 l^2 r^9 R+24 r^{11} R-8 l^{10} R^2+24 l^8 r^2 R^2-192 \sqrt{3}\, l^7 r^3 R^2+1008 l^6 r^4 R^2-$$
$$384 \sqrt{3}\, l^5 r^5 R^2-400 l^4 r^6 R^2-192 \sqrt{3}\, l^3 r^7 R^2+1944 l^2 r^8 R^2+248 r^{10} R^2+160 l^8 r R^3+$$
$$1152 l^6 r^3 R^3+1536 \sqrt{3}\, l^5 r^4 R^3-2880 l^4 r^5 R^3-1536 \sqrt{3}\, l^3 r^6 R^3+5760 l^2 r^7 R^3+1440 r^9 R^3+$$
$$16 l^8 R^4-384 l^6 r^2 R^4+1152 \sqrt{3}\, l^5 r^3 R^4-2592 l^4 r^4 R^4-4224 \sqrt{3}\, l^3 r^5 R^4+8832 l^2 r^6 R^4+$$
$$5136 r^8 R^4-256 l^6 r R^5-1792 l^4 r^3 R^5-4608 \sqrt{3}\, l^3 r^4 R^5+6912 l^2 r^5 R^5+11520 r^7 R^5-$$
$$1536 \sqrt{3}\, l^3 r^3 R^6+3584 l^2 r^4 R^6+15872 r^6 R^6+2048 l^2 r^3 R^7+12288 r^5 R^7+4096 r^4 R^8\Big)\Big/$$
$$\Big(\Big(l^2+2 \sqrt{3}\, l r-r^2-4 r R\Big)\Big(l^4+18 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-4 l^2 R^2+20 r^2 R^2+16 r R^3\Big)^2\Big)\Big\}$$

$$\Big\{\text{X15, 1st ISODYNAMIC POINT, X96, ISOGONAL CONJUGATE OF X(52)},$$
$$-\Big(\Big(l^{12}-10 l^{10} r^2-49 l^8 r^4-76 l^6 r^6-49 l^4 r^8-10 l^2 r^{10}+r^{12}-24 l^{10} r R+184 l^8 r^3 R+208 l^6 r^5 R-$$
$$208 l^4 r^7 R-184 l^2 r^9 R+24 r^{11} R-12 l^{10} R^2-8 \sqrt{3}\, l^9 r R^2+332 l^8 r^2 R^2+32 \sqrt{3}\, l^7 r^3 R^2-$$
$$728 l^6 r^4 R^2+80 \sqrt{3}\, l^5 r^5 R^2+312 l^4 r^6 R^2+32 \sqrt{3}\, l^3 r^7 R^2-1436 l^2 r^8 R^2-8 \sqrt{3}\, l r^9 R^2+252 r^{10} R^2+$$
$$240 l^8 r R^3+128 \sqrt{3}\, l^7 r^2 R^3-2624 l^6 r^3 R^3-384 \sqrt{3}\, l^5 r^4 R^3+3744 l^4 r^5 R^3+384 \sqrt{3}\, l^3 r^6 R^3-$$
$$6208 l^2 r^7 R^3-128 \sqrt{3}\, l r^8 R^3+1520 r^9 R^3+56 l^8 R^4+80 \sqrt{3}\, l^7 r R^4-2336 l^6 r^2 R^4-$$
$$1072 \sqrt{3}\, l^5 r^3 R^4+10448 l^4 r^4 R^4+1840 \sqrt{3}\, l^3 r^5 R^4-16416 l^2 r^6 R^4-848 \sqrt{3}\, l r^7 R^4+5816 r^8 R^4-$$
$$896 l^6 r R^5-960 \sqrt{3}\, l^5 r^2 R^5+11904 l^4 r^3 R^5+4224 \sqrt{3}\, l^3 r^4 R^5-27776 l^2 r^5 R^5-3008 \sqrt{3}\, l r^6 R^5+$$
$$14720 r^7 R^5-128 l^6 R^6-288 \sqrt{3}\, l^5 r R^6+6272 l^4 r^2 R^6+4544 \sqrt{3}\, l^3 r^3 R^6-30080 l^2 r^4 R^6-$$
$$6176 \sqrt{3}\, l r^5 R^6+24960 r^6 R^6+1536 l^4 r R^7+2304 \sqrt{3}\, l^3 r^2 R^7-19456 l^2 r^3 R^7-7424 \sqrt{3}\, l r^4 R^7+$$
$$28160 r^5 R^7+144 l^4 R^8+448 \sqrt{3}\, l^3 r R^8-6880 l^2 r^2 R^8-5056 \sqrt{3}\, l r^3 R^8+20624 r^4 R^8-$$
$$1152 l^2 r R^9-1792 \sqrt{3}\, l r^2 R^9+9344 r^3 R^9-64 l^2 R^{10}-256 \sqrt{3}\, l r R^{10}+2368 r^2 R^{10}+256 r R^{11}\Big)\Big/$$
$$\Big(\Big(l^2+2 \sqrt{3}\, l r-r^2-4 r R\Big)\Big(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2-4 R^4\Big)^2\Big)\Big)\Big\}$$

$$\Big\{\text{X15, 1st ISODYNAMIC POINT, X97, ISOGONAL CONJUGATE OF X(53)},$$
$$-\Big(\Big(R^2\Big(2\sqrt{3}\,l^9 r+16 l^8 r^2-8\sqrt{3}\,l^7 r^3-112 l^6 r^4-20\sqrt{3}\,l^5 r^5+112 l^4 r^6-8\sqrt{3}\,l^3 r^7-16 l^2 r^8+$$
$$2\sqrt{3}\,l r^9-32\sqrt{3}\,l^7 r^2 R-192 l^6 r^3 R+96\sqrt{3}\,l^5 r^4 R+640 l^4 r^5 R-96\sqrt{3}\,l^3 r^6 R-$$
$$192 l^2 r^7 R+32\sqrt{3}\,l r^8 R+l^8 R^2-20\sqrt{3}\,l^7 r R^2-176 l^6 r^2 R^2+268\sqrt{3}\,l^5 r^3 R^2+1438 l^4 r^4 R^2-$$
$$460\sqrt{3}\,l^3 r^5 R^2-944 l^2 r^6 R^2+212\sqrt{3}\,l r^7 R^2+r^8 R^2-16 l^6 r R^3+240\sqrt{3}\,l^5 r^2 R^3+$$
$$1424 l^4 r^3 R^3-1056\sqrt{3}\,l^3 r^4 R^3-2448 l^2 r^5 R^3+752\sqrt{3}\,l r^6 R^3+16 r^7 R^3-8 l^6 R^4+$$
$$64\sqrt{3}\,l^5 r R^4+792 l^4 r^2 R^4-1152\sqrt{3}\,l^3 r^3 R^4-3640 l^2 r^4 R^4+1536\sqrt{3}\,l r^5 R^4+104 r^6 R^4+$$
$$96 l^4 r R^5-512\sqrt{3}\,l^3 r^2 R^5-3136 l^2 r^3 R^5+1792\sqrt{3}\,l r^4 R^5+352 r^5 R^5+16 l^4 R^6-64\sqrt{3}\,l^3 r R^6-$$
$$1376 l^2 r^2 R^6+1088\sqrt{3}\,l r^3 R^6+656 r^4 R^6-128 l^2 r R^7+256\sqrt{3}\,l r^2 R^7+640 r^3 R^7+256 r^2 R^8\Big)\Big)\Big/$$
$$\Big(\Big(-l^2-2\sqrt{3}\,l r+r^2+4 r R\Big)\Big(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-7 l^2 R^2+23 r^2 R^2+28 r R^3+12 R^4\Big)^2\Big)\Big)\Big\}$$

$$\Big\{\text{X15, 1st ISODYNAMIC POINT, X98, TarryPoint},$$
$$-\Big(\Big(l^8+4 l^6 r^2+6 l^4 r^4+4 l^2 r^6+r^8-16 l^6 r R-16 l^4 r^3 R+16 l^2 r^5 R+16 r^7 R-4 l^6 R^2+60 l^4 r^2 R^2-$$
$$28 l^2 r^4 R^2+100 r^6 R^2+48 l^4 r R^3-160 l^2 r^3 R^3+304 r^5 R^3-192 l^2 r^2 R^4+448 r^4 R^4+256 r^3 R^5\Big)\Big/$$
$$\Big(\Big(l^2-2\sqrt{3}\,l r-r^2-4 r R\Big)\Big(l^2+2\sqrt{3}\,l r-r^2-4 r R\Big)^2\Big)\Big)\Big\}$$

$$\Big\{\text{X15, 1st ISODYNAMIC POINT, X99, STEINER POINT},$$
$$\Big(l^8+4 l^6 r^2+6 l^4 r^4+4 l^2 r^6+r^8-16 l^6 r R-16 l^4 r^3 R+16 l^2 r^5 R+16 r^7 R+32 l^2 r^4 R^2+96 r^6 R^2+$$
$$128 l^2 r^3 R^3+256 r^5 R^3+256 r^4 R^4\Big)\Big/\Big(\Big(l^2-2\sqrt{3}\,l r-r^2-4 r R\Big)\Big(l^2+2\sqrt{3}\,l r-r^2-4 r R\Big)^2\Big)\Big\}$$

$$\Big\{\text{X15, 1st ISODYNAMIC POINT, X100},$$
$$\text{ANTICOMPLEMENT OF FEUERBACH POINT},\ \frac{R\Big(l^4+2 l^2 r^2+r^4-16 l^2 r R+8 r^3 R+16 r^2 R^2\Big)}{(2 r-R)\Big(-l^2-2\sqrt{3}\,l r+r^2+4 r R\Big)}\Big\}$$

$$\Big\{\text{X16, 2nd ISODYNAMIC POINT, X17, 1st NAPOLEON POINT},$$
$$\Big(48 l^2 r^2\Big(2 l^4+4\sqrt{3}\,l^3 r+12 l^2 r^2-4\sqrt{3}\,l r^3+2 r^4-16 l^2 r R-16\sqrt{3}\,l r^2 R+16 r^3 R+l^2 R^2+$$
$$14\sqrt{3}\,l r R^2+31 r^2 R^2-4 r R^3\Big)\Big)\Big/\Big(\Big(3 l^2+10\sqrt{3}\,l r-3 r^2-12 r R\Big)^2\Big(l^2-2\sqrt{3}\,l r-r^2-4 r R\Big)\Big)\Big\}$$

$$\Big\{\text{X16, 2nd ISODYNAMIC POINT, X18, 2nd NAPOLEON POINT},$$
$$-\Big(\Big(48 l^2 r^2\Big(l^4-4\sqrt{3}\,l^3 r-6 l^2 r^2+4\sqrt{3}\,l r^3+r^4-$$
$$8 l^2 r R+16\sqrt{3}\,l r^2 R+8 r^3 R-4 l^2 R^2+16\sqrt{3}\,l r R^2+20 r^2 R^2+16 r R^3\Big)\Big)\Big/$$
$$\Big(\Big(3 l^2-10\sqrt{3}\,l r-3 r^2-12 r R\Big)^2\Big(l^2-2\sqrt{3}\,l r-r^2-4 r R\Big)\Big)\Big)\Big\}$$

$$\Big\{\text{X16, 2nd ISODYNAMIC POINT, X19, CLAWSON POINT},$$
$$-\Big(\Big(4 l^2 R\Big(2 l^4 r-2\sqrt{3}\,l^3 r^2-2 l^2 r^3+2\sqrt{3}\,l r^4+l^4 R-2\sqrt{3}\,l^3 r R-16 l^2 r^2 R+10\sqrt{3}\,l r^3 R+$$
$$3 r^4 R-24 l^2 r R^2+16\sqrt{3}\,l r^2 R^2+24 r^3 R^2-4 l^2 R^3+8\sqrt{3}\,l r R^3+60 r^2 R^3+48 r R^4\Big)\Big)\Big/$$
$$\Big(\Big(l^2-2\sqrt{3}\,l r-r^2-4 r R\Big)\Big(l^2-r^2-6 r R-8 R^2\Big)^2\Big)\Big)\Big\}$$

$$\Big\{\text{X16, 2nd ISODYNAMIC POINT, X20, DE LONGCHAMPS POINT},$$
$$\frac{\Big(\sqrt{3}\,l+r+4 R\Big)\Big(\sqrt{3}\,l^3-5 l^2 r+\sqrt{3}\,l r^2+3 r^3-4 l^2 R+12 r^2 R+16 r R^2\Big)}{-l^2+2\sqrt{3}\,l r+r^2+4 r R}\Big\}$$

$$\Big\{\text{X16, 2nd ISODYNAMIC POINT, X21, SCHIFFLER POINT},$$
$$-\Big(\Big(R\Big(2 l^4 r+4 l^2 r^3+2 r^5+l^4 R+4\sqrt{3}\,l^3 r R-2 l^2 r^2 R+4\sqrt{3}\,l r^3 R+13 r^4 R-8 l^2 r R^2+$$
$$8\sqrt{3}\,l r^2 R^2+24 r^3 R^2+16 r^2 R^3\Big)\Big)\Big/\Big((2 r+3 R)^2\Big(-l^2+2\sqrt{3}\,l r+r^2+4 r R\Big)\Big)\Big)\Big\}$$

$$\Big\{\text{X16, 2nd ISODYNAMIC POINT, X22, ExeterPoint,}$$
$$-\Big(\Big(R^2\Big(2\sqrt{3}\,l^5 r-4 l^4 r^2-4\sqrt{3}\,l^3 r^3+4 l^2 r^4+2\sqrt{3}\,l r^5-16\sqrt{3}\,l^3 r^2 R+16 l^2 r^3 R+16\sqrt{3}\,l r^4 R+ l^4 R^2-8\sqrt{3}\,l^3 r R^2+10 l^2 r^2 R^2+40\sqrt{3}\,l r^3 R^2+r^4 R^2-8 l^2 r R^3+32\sqrt{3}\,l r^2 R^3+ 8 r^3 R^3+16 r^2 R^4\Big)\Big)\Big/\Big(\Big(-l^2+2\sqrt{3}\,l r+r^2+4 r R\Big)\Big(-l^2+r^2+4 r R+3 R^2\Big)^2\Big)\Big)\Big\}$$

$$\Big\{\text{X16, 2nd ISODYNAMIC POINT, X23, FarOutPoint, }-\frac{R^2\left(-l^2+2\sqrt{3}\,l r+r^2+4 r R\right)}{-2 l^2+2 r^2+8 r R+9 R^2}\Big\}$$

$$\Big\{\text{X16, 2nd ISODYNAMIC POINT, X24, PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE,}$$
$$-\Big(\Big(R^2\Big(-2\sqrt{3}\,l^5 r+4 l^4 r^2+4\sqrt{3}\,l^3 r^3-4 l^2 r^4-2\sqrt{3}\,l r^5+16\sqrt{3}\,l^3 r^2 R- 16 l^2 r^3 R-16\sqrt{3}\,l r^4 R+l^4 R^2+16\sqrt{3}\,l^3 r R^2-22 l^2 r^2 R^2-48\sqrt{3}\,l r^3 R^2+r^4 R^2- 8 l^2 r R^3-64\sqrt{3}\,l r^2 R^3+8 r^3 R^3-4 l^2 R^4-32\sqrt{3}\,l r R^4+20 r^2 R^4+16 r R^5\Big)\Big)\Big/ \Big(\Big(l^2-2\sqrt{3}\,l r-r^2-4 r R\Big)\Big(l^2-r^2-4 r R-5 R^2\Big)^2\Big)\Big)\Big\}$$

$$\Big\{\text{X16, 2nd ISODYNAMIC POINT, X25, HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES,}$$
$$-\Big(\Big(R^2\Big(-l^6+2\sqrt{3}\,l^5 r-5 l^4 r^2-4\sqrt{3}\,l^3 r^3+5 l^2 r^4+2\sqrt{3}\,l r^5+r^6+12 l^4 r R- 16\sqrt{3}\,l^3 r^2 R+8 l^2 r^3 R+16\sqrt{3}\,l r^4 R+12 r^5 R+4 l^4 R^2-8\sqrt{3}\,l^3 r R^2-8 l^2 r^2 R^2+ 40\sqrt{3}\,l r^3 R^2+52 r^4 R^2-32 l^2 r R^3+32\sqrt{3}\,l r^2 R^3+96 r^3 R^3+64 r^2 R^4\Big)\Big)\Big/ \Big(\Big(-l^2+2\sqrt{3}\,l r+r^2+4 r R\Big)\Big(-l^2+r^2+4 r R+6 R^2\Big)^2\Big)\Big)\Big\}$$

$$\Big\{\text{X16, 2nd ISODYNAMIC POINT, X26, CIRCUMCENTER OF THE TANGENTIAL TRIANGLE,}$$
$$-\Big(\Big(R^2\Big(-2\sqrt{3}\,l^5 r+4 l^4 r^2+4\sqrt{3}\,l^3 r^3-4 l^2 r^4-2\sqrt{3}\,l r^5+16\sqrt{3}\,l^3 r^2 R-16 l^2 r^3 R-16\sqrt{3}\,l r^4 R+ 12\sqrt{3}\,l^3 r R^2-16 l^2 r^2 R^2-44\sqrt{3}\,l r^3 R^2-48\sqrt{3}\,l r^2 R^3-l^2 R^4-14\sqrt{3}\,l r R^4+r^2 R^4+4 r R^5\Big)\Big)\Big/ \Big((1-r-2 R)^2(1+r+2 R)^2\Big(l^2-2\sqrt{3}\,l r-r^2-4 r R\Big)\Big)\Big)\Big\}$$

$$\Big\{\text{X16, 2nd ISODYNAMIC POINT, X27, CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER,}$$
$$\frac{1}{\left(\sqrt{3}\,l-3 r-6 R\right)^2\left(\sqrt{3}\,l+3 r+6 R\right)^2\left(l^2-2\sqrt{3}\,l r-r^2-4 r R\right)}$$
$$9\Big(-3 l^8+4\sqrt{3}\,l^7 r+4\sqrt{3}\,l^5 r^3+10 l^4 r^4-4\sqrt{3}\,l^3 r^5+8 l^2 r^6-4\sqrt{3}\,l r^7+r^8+16 l^6 r R+ 16\sqrt{3}\,l^5 r^2 R+48 l^4 r^3 R-32\sqrt{3}\,l^3 r^4 R+48 l^2 r^5 R-48\sqrt{3}\,l r^6 R+16 r^7 R+8 l^6 R^2+ 16\sqrt{3}\,l^5 r R^2+72 l^4 r^2 R^2-112\sqrt{3}\,l^3 r^3 R^2+72 l^2 r^4 R^2-224\sqrt{3}\,l r^5 R^2+104 r^6 R^2+ 32 l^4 r R^3-192\sqrt{3}\,l^3 r^2 R^3-64 l^2 r^3 R^3-512\sqrt{3}\,l r^4 R^3+352 r^5 R^3+16 l^4 R^4-128\sqrt{3}\,l^3 r R^4- 224 l^2 r^2 R^4-576\sqrt{3}\,l r^3 R^4+656 r^4 R^4-128 l^2 r R^5-256\sqrt{3}\,l r^2 R^5+640 r^3 R^5+256 r^2 R^6\Big)\Big\}$$

$$\Big\{\text{X16, 2nd ISODYNAMIC POINT, X28, CEVAPOINT OF X(19) AND X(25),}$$
$$-\frac{1}{\left(-l^2+2\sqrt{3}\,l r+r^2+4 r R\right)\left(-l^2+r^2+5 r R+6 R^2\right)^2}$$
$$R\Big(-l^6 r-l^4 r^3+l^2 r^5+r^7-l^6 R+2\sqrt{3}\,l^5 r R+6 l^4 r^2 R+3 l^2 r^4 R-2\sqrt{3}\,l r^5 R+12 r^6 R+ 16 l^4 r R^2-4\sqrt{3}\,l^3 r^2 R^2-8 l^2 r^3 R^2-12\sqrt{3}\,l r^4 R^2+56 r^5 R^2+4 l^4 R^3-8\sqrt{3}\,l^3 r R^3- 36 l^2 r^2 R^3-24\sqrt{3}\,l r^3 R^3+128 r^4 R^3-32 l^2 r R^4-16\sqrt{3}\,l r^2 R^4+144 r^3 R^4+64 r^2 R^5\Big)\Big\}$$

$$\left\{\text{X16, 2nd ISODYNAMIC POINT, X29, CEVAPOINT OF INCENTER AND ORTHOCENTER,}\right.$$

$$\frac{1}{\left(l^2-2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)\left(3\,l^2-r^2-8\,r\,R-12\,R^2\right)^2}$$

$$\left(l^8+4\sqrt{3}\,l^7\,r+8\,l^6\,r^2+4\sqrt{3}\,l^5\,r^3+10\,l^4\,r^4-4\sqrt{3}\,l^3\,r^5-4\sqrt{3}\,l\,r^7-3\,r^8-\right.$$
$$16\,l^6\,r\,R-16\sqrt{3}\,l^5\,r^2\,R-32\sqrt{3}\,l^3\,r^4\,R-16\,l^2\,r^5\,R-16\sqrt{3}\,l\,r^6\,R-32\,r^7\,R-8\,l^6\,R^2-$$
$$32\sqrt{3}\,l^5\,r\,R^2+8\,l^4\,r^2\,R^2-48\sqrt{3}\,l^3\,r^3\,R^2-72\,l^2\,r^4\,R^2+16\sqrt{3}\,l\,r^5\,R^2-120\,r^6\,R^2+96\,l^4\,r\,R^3+$$
$$32\sqrt{3}\,l^3\,r^2\,R^3-128\,l^2\,r^3\,R^3+160\sqrt{3}\,l\,r^4\,R^3-160\,r^5\,R^3+16\,l^4\,R^4+64\sqrt{3}\,l^3\,r\,R^4-$$
$$\left.\left.160\,l^2\,r^2\,R^4+256\sqrt{3}\,l\,r^3\,R^4+80\,r^4\,R^4-128\,l^2\,r\,R^5+128\sqrt{3}\,l\,r^2\,R^5+384\,r^3\,R^5+256\,r^2\,R^6\right)\right\}$$

$$\left\{\text{X16, 2nd ISODYNAMIC POINT, X30, EulerInfinityPoint, }\infty\right\}$$

$$\left\{\text{X16, 2nd ISODYNAMIC POINT, X31, SecondPowerPoint,}\right.$$

$$\left.\frac{4\,r^2\,R^2\left(3\,l^4+2\sqrt{3}\,l^3\,r-12\,l^2\,r^2+2\sqrt{3}\,l\,r^3+r^4-24\,l^2\,r\,R+8\sqrt{3}\,l\,r^2\,R+8\,r^3\,R+16\,r^2\,R^2\right)}{\left(l^2-3\,r^2-6\,r\,R\right)^2\left(l^2-2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)}\right\}$$

$$\left\{\text{X16, 2nd ISODYNAMIC POINT, X32, ThirdPowerPoint,}\right.$$

$$\left.\frac{4\,l^2\,r^2\,R^2\left(3\,l^2-2\sqrt{3}\,l\,r-3\,r^2-12\,r\,R\right)^2\left(l^2+2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)}{3\left(l^2-2\,l\,r-r^2-4\,r\,R\right)^2\left(l^2+2\,l\,r-r^2-4\,r\,R\right)^2\left(l^2-2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)}\right\}$$

$$\left\{\text{X16, 2nd ISODYNAMIC POINT, X33, PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES,}\right.$$
$$-\left(\left(4\,r^2\,R\left(2\sqrt{3}\,l^5+2\,l^4\,r-2\sqrt{3}\,l^3\,r^2-2\,l^2\,r^3+3\,l^4\,R-10\sqrt{3}\,l^3\,r\,R-8\,l^2\,r^2\,R+2\sqrt{3}\,l\,r^3\,R+r^4\,R-\right.\right.\right.$$
$$\left.\left.\left.16\sqrt{3}\,l^3\,R^2-28\,l^2\,r\,R^2+16\sqrt{3}\,l\,r^2\,R^2+12\,r^3\,R^2-28\,l^2\,R^3+40\sqrt{3}\,l\,r\,R^3+52\,r^2\,R^3+32\sqrt{3}\,l\,R^4+96\,r\,R^4+64\,R^5\right)\right)\Big/\left(\left(-l^2+2\sqrt{3}\,l\,r+r^2+4\,r\,R\right)\left(-l^2+r^2+2\,r\,R+4\,R^2\right)^2\right)\right)\Big\}$$

$$\left\{\text{X16, 2nd ISODYNAMIC POINT, X34, X(4)-BETH CONJUGATE OF X(4),}\right.$$
$$-\left(\left(4\,r^2\,R\left(-2\sqrt{3}\,l^3\,r^2-2\,l^2\,r^3+2\sqrt{3}\,l\,r^4+2\,r^5+3\,l^4\,R+2\sqrt{3}\,l^3\,r\,R-12\,l^2\,r^2\,R+6\sqrt{3}\,l\,r^3\,R+\right.\right.\right.$$
$$\left.\left.\left.21\,r^4\,R-36\,l^2\,r\,R^2+84\,r^3\,R^2-28\,l^2\,R^3-8\sqrt{3}\,l\,r\,R^3+164\,r^2\,R^3+160\,r\,R^4+64\,R^5\right)\right)\Big/$$
$$\left.\left.\left(\left(-l^2+2\sqrt{3}\,l\,r+r^2+4\,r\,R\right)\left(-l^2+r^2+6\,r\,R+4\,R^2\right)^2\right)\right)\right\}$$

$$\left\{\text{X16, 2nd ISODYNAMIC POINT, X35, \{X(1),X(3)\}-HARMONIC CONJUGATE OF X(36),}\right.$$

$$\left.-\frac{4\,r^2\,R^2\left(2\,l^2+2\sqrt{3}\,l\,r+3\sqrt{3}\,l\,R+r\,R+4\,R^2\right)}{(2\,r+R)^2\left(-l^2+2\sqrt{3}\,l\,r+r^2+4\,r\,R\right)}\right\}$$

$$\left\{\text{X16, 2nd ISODYNAMIC POINT, X36,}\right.$$

$$\left.\text{INVERSE-IN-CIRCUMCIRCLE OF INCENTER, }\frac{4\,r^2\,R^2\left(-\sqrt{3}\,l+r+4\,R\right)}{(2\,r-R)\left(-l^2+2\sqrt{3}\,l\,r+r^2+4\,r\,R\right)}\right\}$$

$$\left\{\text{X16, 2nd ISODYNAMIC POINT, X37, CrosspointOfIncenterAndCentroid,}\right.$$

$$\left.\frac{4\,l^2\,r^2\,R\left(2\sqrt{3}\,l^3+4\,l^2\,r-2\sqrt{3}\,l\,r^2+7\,l^2\,R-2\sqrt{3}\,l\,r\,R-3\,r^2\,R-12\,r\,R^2\right)}{\left(l^2-2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)\left(l^2+r^2+4\,r\,R\right)^2}\right\}$$

$$\left\{\text{X16, 2nd ISODYNAMIC POINT, X38, CROSSPOINT OF X(1) AND X(75),}\right.$$
$$-\left(\left(4\,r^2\,R\left(2\sqrt{3}\,l^5+6\,l^4\,r-8\sqrt{3}\,l^3\,r^2-8\,l^2\,r^3+6\sqrt{3}\,l\,r^4+2\,r^5+7\,l^4\,R-18\sqrt{3}\,l^3\,r\,R-\right.\right.\right.$$
$$\left.\left.\left.56\,l^2\,r^2\,R+38\sqrt{3}\,l\,r^3\,R+25\,r^4\,R-72\,l^2\,r\,R^2+56\sqrt{3}\,l\,r^2\,R^2+104\,r^3\,R^2+144\,r^2\,R^3\right)\right)\Big/$$
$$\left.\left.\left(\left(l^2+r^2-2\,r\,R\right)^2\left(-l^2+2\sqrt{3}\,l\,r+r^2+4\,r\,R\right)\right)\right)\right\}$$

$$\left\{\text{X16, 2nd ISODYNAMIC POINT, X39, BrocardMidpoint,}\ \frac{4\,l^2 r^2 R^2 \left(3\,l^2+2\sqrt{3}\,l\,r-3\,r^2-12\,r\,R\right)^2 \left(l^2+2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)}{3\left(l^2-2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)\left(l^4+2\,l^2 r^2+r^4-8\,l^2 r\,R+8\,r^3 R+16\,r^2 R^2\right)^2}\right\}$$

$$\left\{\text{X16, 2nd ISODYNAMIC POINT, X40, BEVAN POINT,}\ \frac{4\,R\left(l^2 r-\sqrt{3}\,l\,r^2-l^2 R+r^2 R+4\,r\,R^2\right)}{-l^2+2\sqrt{3}\,l\,r+r^2+4\,r\,R}\right\}$$

$$\left\{\text{X16, 2nd ISODYNAMIC POINT, X41, X(6)-CEVA CONJUGATE OF X(31),}\ -\left(\left(4\,l^2 r^2 R^2\left(l^4-2\sqrt{3}\,l^3 r-12\,l^2 r^2-2\sqrt{3}\,l\,r^3+3\,r^4-52\,l^2 r\,R-16\sqrt{3}\,l\,r^2 R+36\,r^3 R-16\,l^2 R^2-32\sqrt{3}\,l\,r\,R^2+144\,r^2 R^2+192\,r\,R^3\right)\right)\Big/\left(\left(l^2-2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)\left(3\,l^2 r-r^3+2\,l^2 R-8\,r^2 R-16\,r\,R^2\right)^2\right)\right)\right\}$$

$$\left\{\text{X16, 2nd ISODYNAMIC POINT, X42, CROSSPOINT OF INCENTER AND SYMMEDIAN POINT,}\ -\frac{4\,r^2 R^2\left(3\,l^4+10\sqrt{3}\,l^3 r+12\,l^2 r^2+2\sqrt{3}\,l\,r^3+r^4+8\sqrt{3}\,l\,r^2 R+8\,r^3 R+16\,r^2 R^2\right)}{\left(l^2+r^2-2\,r\,R\right)^2\left(-l^2+2\sqrt{3}\,l\,r+r^2+4\,r\,R\right)}\right\}$$

$$\left\{\text{X16, 2nd ISODYNAMIC POINT, X43, X(6)-CEVA CONJUGATE OF X(1),}\ \left(4\,r^2 R\left(\sqrt{3}\,l^5+l^4 r+2\sqrt{3}\,l^3 r^2+2\,l^2 r^3+\sqrt{3}\,l\,r^4+r^5-4\,l^4 R-20\sqrt{3}\,l^3 r\,R-28\,l^2 r^2 R+12\sqrt{3}\,l\,r^3 R+8\,r^4 R+48\,l^2 r\,R^2+32\sqrt{3}\,l\,r^2 R^2+16\,r^3 R^2\right)\right)\Big/\left(\left(l^2+r^2-8\,r\,R\right)^2\left(-l^2+2\sqrt{3}\,l\,r+r^2+4\,r\,R\right)\right)\right\}$$

$$\left\{\text{X16, 2nd ISODYNAMIC POINT, X44, X(6)-LINE CONJUGATE OF X(1),}\ -\frac{4\,l^2 r^2 R\left(2\sqrt{3}\,l^3-4\,l^2 r+6\sqrt{3}\,l\,r^2-7\,l^2 R-30\sqrt{3}\,l\,r\,R+27\,r^2 R+108\,r\,R^2\right)}{\left(l^2-3\,r^2-12\,r\,R\right)^2\left(l^2-2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)}\right\}$$

$$\left\{\text{X16, 2nd ISODYNAMIC POINT, X45, X(9)-BETH CONJUGATE OF X(1),}\ \frac{4\,l^2 r^2 R\left(4\sqrt{3}\,l^3+16\,l^2 r-12\sqrt{3}\,l\,r^2+19\,l^2 R+6\sqrt{3}\,l\,r\,R-27\,r^2 R-108\,r\,R^2\right)}{\left(l^2-2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)\left(l^2+3\,r^2+12\,r\,R\right)^2}\right\}$$

$$\left\{\text{X16, 2nd ISODYNAMIC POINT, X46, X(4)-CEVA CONJUGATE OF X(1),}\ -\frac{4\,r^2 R\left(-l^2 r+\sqrt{3}\,l\,r^2+2\sqrt{3}\,l\,r\,R-\sqrt{3}\,l\,R^2+r\,R^2+4\,R^3\right)}{(r-R)^2\left(-l^2+2\sqrt{3}\,l\,r+r^2+4\,r\,R\right)}\right\}$$

$$\left\{\text{X16, 2nd ISODYNAMIC POINT, X47, X(110)-BETH CONJUGATE OF X(34),}\ -\left(\left(4\,r^2 R^2\left(3\,l^4+2\sqrt{3}\,l^3 r-12\,l^2 r^2+2\sqrt{3}\,l\,r^3+r^4-2\sqrt{3}\,l^3 R-22\,l^2 r\,R+6\sqrt{3}\,l\,r^2 R+10\,r^3 R-12\,l^2 R^2+4\sqrt{3}\,l\,r\,R^2+32\,r^2 R^2+4\sqrt{3}\,l\,R^3+36\,r\,R^3+16\,R^4\right)\right)\Big/\left(\left(-l^2+2\sqrt{3}\,l\,r+r^2+4\,r\,R\right)\left(-l^2+3\,r^2+6\,r\,R+2\,R^2\right)^2\right)\right)\right\}$$

$$\left\{\text{X16, 2nd ISODYNAMIC POINT, X48, CROSSPOINT OF X(1) AND X(63),}\ -\left(\left(4\,l^2 R^2\left(l^4-2\sqrt{3}\,l^3 r-12\,l^2 r^2-2\sqrt{3}\,l\,r^3+3\,r^4-16\,l^2 r\,R+24\,r^3 R-4\,l^2 R^2+8\sqrt{3}\,l\,r\,R^2+60\,r^2 R^2+48\,r\,R^3\right)\right)\Big/\left(\left(l^2-2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)\left(3\,l^2-r^2-6\,r\,R-8\,R^2\right)^2\right)\right)\right\}$$

$$\left\{\text{X16, 2nd ISODYNAMIC POINT, X49, CENTER OF SINE-TRIPLE-ANGLE CIRCLE,}\right.$$

$$-\frac{1}{\left(l^2-2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)\left(2\,l^2-2\,r^2-8\,r\,R-7\,R^2\right)^2}$$

$$R^2\left(l^6-2\sqrt{3}\,l^5\,r-31\,l^4\,r^2-4\sqrt{3}\,l^3\,r^3+31\,l^2\,r^4-2\sqrt{3}\,l\,r^5-r^6-12\,l^4\,r\,R+16\sqrt{3}\,l^3\,r^2\,R+\right.$$
$$136\,l^2\,r^3\,R-16\sqrt{3}\,l\,r^4\,R-12\,r^5\,R-4\,l^4\,R^2+16\sqrt{3}\,l^3\,r\,R^2+168\,l^2\,r^2\,R^2-48\sqrt{3}\,l\,r^3\,R^2-$$
$$\left.\left.52\,r^4\,R^2+32\,l^2\,r\,R^3-64\sqrt{3}\,l\,r^2\,R^3-96\,r^3\,R^3-l^2\,R^4-26\sqrt{3}\,l\,r\,R^4-63\,r^2\,R^4+4\,r\,R^5\right)\right\}$$

$$\left\{\text{X16, 2nd ISODYNAMIC POINT, X50, X(74)-CEVA CONJUGATE OF X(184),}\right.$$

$$\left.\frac{4\,l^2\,r^2\left(\sqrt{3}\,l-3\,r-3\,R\right)^2R^2\left(\sqrt{3}\,l+r+3\,R\right)^2\left(l^2+2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)}{3\left(l^2-2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)\left(l^4-6\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-3\,l^2\,R^2+19\,r^2\,R^2+12\,r\,R^3\right)^2}\right\}$$

$$\left\{\text{X16, 2nd ISODYNAMIC POINT, X51, CENTROID OF ORTHIC TRIANGLE,}\right.$$

$$-\left(\left(-l^6+2\sqrt{3}\,l^5\,r-17\,l^4\,r^2+36\sqrt{3}\,l^3\,r^3+17\,l^2\,r^4+2\sqrt{3}\,l\,r^5+r^6+12\,l^4\,r\,R-16\sqrt{3}\,l^3\,r^2\,R+\right.\right.$$
$$56\,l^2\,r^3\,R+16\sqrt{3}\,l\,r^4\,R+12\,r^5\,R+4\,l^4\,R^2-8\sqrt{3}\,l^3\,r\,R^2+136\,l^2\,r^2\,R^2+40\sqrt{3}\,l\,r^3\,R^2+$$
$$\left.\left.52\,r^4\,R^2-32\,l^2\,r\,R^3+32\sqrt{3}\,l\,r^2\,R^3+96\,r^3\,R^3+64\,r^2\,R^4\right)\Big/\left(36\,R^2\left(-l^2+2\sqrt{3}\,l\,r+r^2+4\,r\,R\right)\right)\right)\right\}$$

$$\left\{\text{X16, 2nd ISODYNAMIC POINT, X52, ORTHOCENTER OF ORTHIC TRIANGLE,}\right.$$

$$\left.\frac{\left(-l^2-2\sqrt{3}\,l\,r+r^2+4\,r\,R\right)\left(-l^2+2\sqrt{3}\,l\,r+r^2+4\,r\,R+2\,R^2\right)^2}{4\,R^2\left(-l^2+2\sqrt{3}\,l\,r+r^2+4\,r\,R\right)}\right\}$$

$$\left\{\text{X16, 2nd ISODYNAMIC POINT, X53, SYMMEDIAN POINT OF ORTHIC TRIANGLE,}\right.$$

$$-\left(\left(4\,l^2\,r^2\left(2\sqrt{3}\,l^7\,r+4\,l^6\,r^2-14\sqrt{3}\,l^5\,r^3-24\,l^4\,r^4+14\sqrt{3}\,l^3\,r^5+4\,l^2\,r^6-2\sqrt{3}\,l\,r^7-24\sqrt{3}\,l^5\,r^2\,R-\right.\right.\right.$$
$$32\,l^4\,r^3\,R+80\sqrt{3}\,l^3\,r^4\,R+32\,l^2\,r^5\,R-24\sqrt{3}\,l\,r^6\,R-3\,l^6\,R^2-22\sqrt{3}\,l^5\,r\,R^2+17\,l^4\,r^2\,R^2+$$
$$172\sqrt{3}\,l^3\,r^3\,R^2+47\,l^2\,r^4\,R^2-118\sqrt{3}\,l\,r^5\,R^2+3\,r^6\,R^2+36\,l^4\,r\,R^3+176\sqrt{3}\,l^3\,r^2\,R^3-104\,l^2\,r^3\,R^3-$$
$$304\sqrt{3}\,l\,r^4\,R^3+36\,r^5\,R^3+24\,l^4\,R^4+80\sqrt{3}\,l^3\,r\,R^4-288\,l^2\,r^2\,R^4-432\sqrt{3}\,l\,r^3\,R^4+168\,r^4\,R^4-$$
$$\left.\left.192\,l^2\,r\,R^5-320\sqrt{3}\,l\,r^2\,R^5+384\,r^3\,R^5-48\,l^2\,R^6-96\sqrt{3}\,l\,r\,R^6+432\,r^2\,R^6+192\,r\,R^7\right)\right)\Big/$$
$$\left.\left.\left(\left(l^2-2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)\left(l^4-6\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-4\,l^2\,R^2+20\,r^2\,R^2+16\,r\,R^3\right)^2\right)\right)\right\}$$

$$\left\{\text{X16, 2nd ISODYNAMIC POINT, X54, KosnitaPoint,}\right.$$

$$-\left(\left(R^2\left(-4\sqrt{3}\,l^5\,r-32\,l^4\,r^2-8\sqrt{3}\,l^3\,r^3+32\,l^2\,r^4-4\sqrt{3}\,l\,r^5+32\sqrt{3}\,l^3\,r^2\,R+\right.\right.\right.$$
$$128\,l^2\,r^3\,R-32\sqrt{3}\,l\,r^4\,R+l^4\,R^2+24\sqrt{3}\,l^3\,r\,R^2+98\,l^2\,r^2\,R^2-88\sqrt{3}\,l\,r^3\,R^2+r^4\,R^2-$$
$$\left.\left.8\,l^2\,r\,R^3-96\sqrt{3}\,l\,r^2\,R^3+8\,r^3\,R^3-4\,l^2\,R^4-32\sqrt{3}\,l\,r\,R^4+20\,r^2\,R^4+16\,r\,R^5\right)\right)\Big/$$
$$\left.\left.\left(\left(l^2-2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)\left(2\,l^2-2\,r^2-8\,r\,R-5\,R^2\right)^2\right)\right)\right\}$$

$$\left\{\text{X16, 2nd ISODYNAMIC POINT, X55,}\right.$$

$$\left.\text{INSIMILICENTER(CIRCUMCIRCLE, INCIRCLE)},\ -\frac{r^2\,R^2\left(\sqrt{3}\,l+r+4\,R\right)^2}{(r+R)^2\left(-l^2+2\sqrt{3}\,l\,r+r^2+4\,r\,R\right)}\right\}$$

$$\left\{\text{X16, 2nd ISODYNAMIC POINT, X56,}\right.$$

$$\left.\text{EXSIMILICENTER(CIRCUMCIRCLE, INCIRCLE)},\ \frac{r^2\,R^2\left(l^2-2\sqrt{3}\,l\,r+3\,r^2+8\,r\,R-16\,R^2\right)}{(r-R)^2\left(-l^2+2\sqrt{3}\,l\,r+r^2+4\,r\,R\right)}\right\}$$

$$\left\{\text{X16, 2nd ISODYNAMIC POINT, X57, ISOGONAL CONJUGATE OF X(9)},\ -\frac{4 r^2 R \left(-l^2 r+\sqrt{3}\, l r^2-l^2 R+4 \sqrt{3}\, l r R+r^2 R+8 r R^2+16 R^3\right)}{(r-2 R)^2 \left(-l^2+2 \sqrt{3}\, l r+r^2+4 r R\right)}\right\}$$

$$\left\{\text{X16, 2nd ISODYNAMIC POINT, X58, ISOGONAL CONJUGATE OF X(10)},\ \frac{4 r^2 \left(-\sqrt{3}\, l+r\right)^2 R^2 \left(-l^2-2 \sqrt{3}\, l r+r^2+4 r R\right)}{\left(-l^2+2 \sqrt{3}\, l r+r^2+4 r R\right) \left(-l^2+3 r^2+4 r R\right)^2}\right\}$$

$$\left\{\text{X16, 2nd ISODYNAMIC POINT, X59, ISOGONAL CONJUGATE OF X(11)},\ \left(r^2 R^2 \left(-\sqrt{3}\, l+r+4 R\right) \left(2 l^4+6 \sqrt{3}\, l^3 r+10 l^2 r^2-2 \sqrt{3}\, l r^3-3 \sqrt{3}\, l^3 R-19 l^2 r R-15 \sqrt{3}\, l r^2 R+r^3 R-20 l^2 R^2-24 \sqrt{3}\, l r R^2+12 r^2 R^2+16 \sqrt{3}\, l R^3+48 r R^3+64 R^4\right)\right) \Big/ \left((2 r-R) \left(-l^2+2 \sqrt{3}\, l r+r^2+4 r R\right) \left(-l^2+r^2+5 r R+4 R^2\right)^2\right)\right\}$$

$$\left\{\text{X16, 2nd ISODYNAMIC POINT, X60, ISOGONAL CONJUGATE OF X(12)},\ -\left(\left(r^2 R^2 \left(4 \sqrt{3}\, l^5 r+32 l^4 r^2+8 \sqrt{3}\, l^3 r^3-32 l^2 r^4+4 \sqrt{3}\, l r^5+2 \sqrt{3}\, l^5 R+50 l^4 r R+20 \sqrt{3}\, l^3 r^2 R-140 l^2 r^3 R+18 \sqrt{3}\, l r^4 R+2 r^5 R+13 l^4 R^2+8 \sqrt{3}\, l^3 r R^2-230 l^2 r^2 R^2+24 \sqrt{3}\, l r^3 R^2+13 r^4 R^2-128 l^2 r R^3+8 \sqrt{3}\, l r^2 R^3+24 r^3 R^3+16 r^2 R^4\right)\right) \Big/ \left(\left(-l^2+2 \sqrt{3}\, l r+r^2+4 r R\right) \left(-2 l^2 r+2 r^3-l^2 R+7 r^2 R+7 r R^2\right)^2\right)\right)\right\}$$

$$\left\{\text{X16, 2nd ISODYNAMIC POINT, X61, ISOGONAL CONJUGATE OF X(17)},\ \frac{192 l^2 r^2 R^2 \left(l^2+2 \sqrt{3}\, l r-r^2-4 r R\right)}{\left(3 l^2+2 \sqrt{3}\, l r-3 r^2-12 r R\right)^2 \left(l^2-2 \sqrt{3}\, l r-r^2-4 r R\right)}\right\}$$

$$\left\{\text{X16, 2nd ISODYNAMIC POINT, X62, ISOGONAL CONJUGATE OF X(18)},\ \frac{48 l^2 r^2 R^2 \left(l^2+2 \sqrt{3}\, l r-r^2-4 r R\right)}{\left(3 l^2-2 \sqrt{3}\, l r-3 r^2-12 r R\right)^2 \left(l^2-2 \sqrt{3}\, l r-r^2-4 r R\right)}\right\}$$

$$\left\{\text{X16, 2nd ISODYNAMIC POINT, X63, ISOGONAL CONJUGATE OF X(19)},\ -\left(\left(R \left(2 l^4 r-2 \sqrt{3}\, l^3 r^2-2 l^2 r^3+2 \sqrt{3}\, l r^4+l^4 R-18 l^2 r^2 R+12 \sqrt{3}\, l r^3 R+r^4 R-16 l^2 r R^2+16 \sqrt{3}\, l r^2 R^2+8 r^3 R^2+16 r^2 R^3\right)\right) \Big/ \left((r+R)^2 \left(-l^2+2 \sqrt{3}\, l r+r^2+4 r R\right)\right)\right)\right\}$$

$$\left\{\text{X16, 2nd ISODYNAMIC POINT, X64, ISOGONAL CONJUGATE OF X(20)},\ -\frac{1}{(l-r-2 R)^2 (l+r+2 R)^2 \left(l^2-2 \sqrt{3}\, l r-r^2-4 r R\right)} 4 R^2 \left(-3 l^6+2 \sqrt{3}\, l^5 r+10 l^4 r^2-2 \sqrt{3}\, l^3 r^3-10 l^2 r^4+2 \sqrt{3}\, l r^5+3 r^6+36 l^4 r R-16 \sqrt{3}\, l^3 r^2 R-76 l^2 r^3 R+16 \sqrt{3}\, l r^4 R+36 r^5 R+28 l^4 R^2-24 \sqrt{3}\, l^3 r R^2-208 l^2 r^2 R^2+56 \sqrt{3}\, l r^3 R^2+172 r^4 R^2-224 l^2 r R^3+96 \sqrt{3}\, l r^2 R^3+416 r^3 R^3-64 l^2 R^4+64 \sqrt{3}\, l r R^4+512 r^2 R^4+256 r R^5\right)\right\}$$

$$\left\{\text{X16, 2nd ISODYNAMIC POINT, X65, ORTHOCENTER OF THE INTOUCH TRIANGLE},\ -\frac{r^2 \left(-2 l^2 r+4 \sqrt{3}\, l r^2+2 r^3-l^2 R+6 \sqrt{3}\, l r R+13 r^2 R+24 r R^2+16 R^3\right)}{R \left(-l^2+2 \sqrt{3}\, l r+r^2+4 r R\right)}\right\}$$

$$\Big\{\text{X16, 2nd ISODYNAMIC POINT, X66, ISOGONAL CONJUGATE OF X(22)},$$
$$\Big(2\sqrt{3}\,l^{11} r + 8 l^{10} r^2 - 18\sqrt{3}\,l^9 r^3 - 32 l^8 r^4 + 44\sqrt{3}\,l^7 r^5 + 48 l^6 r^6 - 44\sqrt{3}\,l^5 r^7 - 32 l^4 r^8 +$$
$$18\sqrt{3}\,l^3 r^9 + 8 l^2 r^{10} - 2\sqrt{3}\,l r^{11} - 40\sqrt{3}\,l^9 r^2 R - 128 l^8 r^3 R + 256\sqrt{3}\,l^7 r^4 R + 384 l^6 r^5 R -$$
$$432\sqrt{3}\,l^5 r^6 R - 384 l^4 r^7 R + 256\sqrt{3}\,l^3 r^8 R + 128 l^2 r^9 R - 40\sqrt{3}\,l r^{10} R - l^{10} R^2 - 14\sqrt{3}\,l^9 r R^2 -$$
$$71 l^8 r^2 R^2 + 432\sqrt{3}\,l^7 r^3 R^2 + 986 l^6 r^4 R^2 - 1540\sqrt{3}\,l^5 r^5 R^2 - 1754 l^4 r^6 R^2 + 1456\sqrt{3}\,l^3 r^7 R^2 +$$
$$839 l^2 r^8 R^2 - 334\sqrt{3}\,l r^9 R^2 + r^{10} R^2 + 20 l^8 r R^3 + 224\sqrt{3}\,l^7 r^2 R^3 + 832 l^6 r^3 R^3 - 2400\sqrt{3}\,l^5 r^4 R^3 -$$
$$3752 l^4 r^5 R^3 + 4192\sqrt{3}\,l^3 r^6 R^3 + 2880 l^2 r^7 R^3 - 1504\sqrt{3}\,l r^8 R^3 + 20 r^9 R^3 + 4 l^8 R^4 +$$
$$24\sqrt{3}\,l^7 r R^4 + 64 l^6 r^2 R^4 - 1544\sqrt{3}\,l^5 r^3 R^4 - 3624 l^4 r^4 R^4 + 6344\sqrt{3}\,l^3 r^5 R^4 + 5440 l^2 r^6 R^4 -$$
$$3928\sqrt{3}\,l r^7 R^4 + 164 r^8 R^4 - 64 l^6 r R^5 - 288\sqrt{3}\,l^5 r^2 R^5 - 1088 l^4 r^3 R^5 + 4672\sqrt{3}\,l^3 r^4 R^5 +$$
$$5312 l^2 r^5 R^5 - 5920\sqrt{3}\,l r^6 R^5 + 704 r^7 R^5 + 144 l^4 r^2 R^6 + 1248\sqrt{3}\,l^3 r^3 R^6 + 2032 l^2 r^4 R^6 -$$
$$4736\sqrt{3}\,l r^5 R^6 + 1664 r^6 R^6 - 64 l^2 r^3 R^7 - 1536\sqrt{3}\,l r^4 R^7 + 2048 r^5 R^7 + 1024 r^4 R^8\Big) \Big/$$
$$\Big((1 - r - 2R)^2 (1 + r + 2R)^2 \left(l^2 - r^2 - 4 r R\right)^2 \left(l^2 - 2\sqrt{3}\,l r - r^2 - 4 r R\right)\Big)\Big\}$$

$$\Big\{\text{X16, 2nd ISODYNAMIC POINT, X67, ISOGONAL CONJUGATE OF X(23)},$$
$$\Big(l^{10} + 2\sqrt{3}\,l^9 r + 15 l^8 r^2 - 32\sqrt{3}\,l^7 r^3 - 50 l^6 r^4 + 60\sqrt{3}\,l^5 r^5 + 50 l^4 r^6 - 32\sqrt{3}\,l^3 r^7 - 15 l^2 r^8 +$$
$$2\sqrt{3}\,l r^9 - r^{10} - 20 l^8 r R - 32\sqrt{3}\,l^7 r^2 R - 160 l^6 r^3 R + 288\sqrt{3}\,l^5 r^4 R + 360 l^4 r^5 R - 288\sqrt{3}\,l^3 r^6 R -$$
$$160 l^2 r^7 R + 32\sqrt{3}\,l r^8 R - 20 r^9 R - 4 l^8 R^2 - 8\sqrt{3}\,l^7 r R^2 + 8 l^6 r^2 R^2 + 360\sqrt{3}\,l^5 r^3 R^2 + 792 l^4 r^4 R^2 -$$
$$936\sqrt{3}\,l^3 r^5 R^2 - 632 l^2 r^6 R^2 + 200\sqrt{3}\,l r^7 R^2 - 164 r^8 R^2 + 64 l^6 r R^3 + 96\sqrt{3}\,l^5 r^2 R^3 + 512 l^4 r^3 R^3 -$$
$$1280\sqrt{3}\,l^3 r^4 R^3 - 1152 l^2 r^5 R^3 + 608\sqrt{3}\,l r^6 R^3 - 704 r^7 R^3 - 60 l^4 r^2 R^4 - 600\sqrt{3}\,l^3 r^3 R^4 -$$
$$964 l^2 r^4 R^4 + 896\sqrt{3}\,l r^5 R^4 - 1664 r^6 R^4 - 272 l^2 r^3 R^5 + 512\sqrt{3}\,l r^4 R^5 - 2048 r^5 R^5 - 1024 r^4 R^6\Big) \Big/$$
$$\Big(\left(l^2 - r^2 - 4 r R\right)^2 \left(l^2 - 2\sqrt{3}\,l r - r^2 - 4 r R\right) \left(2 l^2 - 2 r^2 - 8 r R - 9 R^2\right)\Big)\Big\}$$

$$\Big\{\text{X16, 2nd ISODYNAMIC POINT, X68, PRASOLOV POINT},$$
$$\frac{1}{(1 - r - 2R)^2 (1 + r + 2R)^2 \left(l^2 - 2\sqrt{3}\,l r - r^2 - 4 r R\right)}$$
$$\Big(2\sqrt{3}\,l^7 r + 8 l^6 r^2 - 14\sqrt{3}\,l^5 r^3 - 16 l^4 r^4 + 14\sqrt{3}\,l^3 r^5 + 8 l^2 r^6 - 2\sqrt{3}\,l r^7 - 24\sqrt{3}\,l^5 r^2 R -$$
$$64 l^4 r^3 R + 80\sqrt{3}\,l^3 r^4 R + 64 l^2 r^5 R - 24\sqrt{3}\,l r^6 R + l^6 R^2 - 18\sqrt{3}\,l^5 r R^2 - 71 l^4 r^2 R^2 +$$
$$172\sqrt{3}\,l^3 r^3 R^2 + 199 l^2 r^4 R^2 - 114\sqrt{3}\,l r^5 R^2 - r^6 R^2 - 12 l^4 r R^3 + 144\sqrt{3}\,l^3 r^2 R^3 +$$
$$296 l^2 r^3 R^3 - 272\sqrt{3}\,l r^4 R^3 - 12 r^5 R^3 - 4 l^4 R^4 + 48\sqrt{3}\,l^3 r R^4 + 184 l^2 r^2 R^4 - 336\sqrt{3}\,l r^3 R^4 -$$
$$52 r^4 R^4 + 32 l^2 r R^5 - 192\sqrt{3}\,l r^2 R^5 - 96 r^3 R^5 + 4 l^2 R^6 - 40\sqrt{3}\,l r R^6 - 68 r^2 R^6 - 16 r R^7\Big)\Big\}$$

$$\Big\{\text{X16, 2nd ISODYNAMIC POINT, X69, SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},$$
$$\Big(l^8 + 8 l^6 r^2 - 16\sqrt{3}\,l^5 r^3 - 18 l^4 r^4 + 16\sqrt{3}\,l^3 r^5 + 8 l^2 r^6 + r^8 - 16 l^6 r R - 48 l^4 r^3 R + 64\sqrt{3}\,l^3 r^4 R +$$
$$48 l^2 r^5 R + 16 r^7 R + 96\sqrt{3}\,l^3 r^3 R^2 + 96 l^2 r^4 R^2 + 96 r^6 R^2 + 128 l^2 r^3 R^3 + 256 r^5 R^3 + 256 r^4 R^4\Big) \Big/$$
$$\Big(\left(l^2 - r^2 - 4 r R\right)^2 \left(l^2 - 2\sqrt{3}\,l r - r^2 - 4 r R\right)\Big)\Big\}$$

$$\{\text{X16, 2nd ISODYNAMIC POINT, X70, ISOGONAL CONJUGATE OF X(26)},$$
$$\Big(2\sqrt{3}\,l^{11} r + 8 l^{10} r^2 - 18\sqrt{3}\,l^9 r^3 - 32 l^8 r^4 + 44\sqrt{3}\,l^7 r^5 + 48 l^6 r^6 - 44\sqrt{3}\,l^5 r^7 - 32 l^4 r^8 +$$
$$18\sqrt{3}\,l^3 r^9 + 8 l^2 r^{10} - 2\sqrt{3}\,l\, r^{11} - 40\sqrt{3}\,l^9 r^2 R - 128 l^8 r^3 R + 256\sqrt{3}\,l^7 r^4 R + 384 l^6 r^5 R -$$
$$432\sqrt{3}\,l^5 r^6 R - 384 l^4 r^7 R + 256\sqrt{3}\,l^3 r^8 R + 128 l^2 r^9 R - 40\sqrt{3}\,l\, r^{10} R - 24\sqrt{3}\,l^9 r R^2 - 104 l^8 r^2 R^2 +$$
$$496\sqrt{3}\,l^7 r^3 R^2 + 1080 l^6 r^4 R^2 - 1648\sqrt{3}\,l^5 r^5 R^2 - 1848 l^4 r^6 R^2 + 1520\sqrt{3}\,l^3 r^7 R^2 + 872 l^2 r^8 R^2 -$$
$$344\sqrt{3}\,l\, r^9 R^2 + 384\sqrt{3}\,l^7 r^2 R^3 + 1248 l^6 r^3 R^3 - 3072\sqrt{3}\,l^5 r^4 R^3 - 4544 l^4 r^5 R^3 + 4864\sqrt{3}\,l^3 r^6 R^3 +$$
$$3296 l^2 r^7 R^3 - 1664\sqrt{3}\,l\, r^8 R^3 - l^8 R^4 + 106\sqrt{3}\,l^7 r R^4 + 488 l^6 r^2 R^4 - 2886\sqrt{3}\,l^5 r^3 R^4 - 5966 l^4 r^4 R^4 +$$
$$9030\sqrt{3}\,l^3 r^5 R^4 + 7528 l^2 r^6 R^4 - 4970\sqrt{3}\,l\, r^7 R^4 - r^8 R^4 + 16 l^6 r R^5 - 1272\sqrt{3}\,l^5 r^2 R^5 - 3920 l^4 r^3 R^5 +$$
$$9744\sqrt{3}\,l^3 r^4 R^5 + 10576 l^2 r^5 R^5 - 9464\sqrt{3}\,l\, r^6 R^5 - 16 r^7 R^5 + 6 l^6 R^6 - 212\sqrt{3}\,l^5 r R^6 - 1042 l^4 r^2 R^6 +$$
$$5800\sqrt{3}\,l^3 r^3 R^6 + 8882 l^2 r^4 R^6 - 11444\sqrt{3}\,l\, r^5 R^6 - 102 r^6 R^6 - 72 l^4 r R^7 + 1696\sqrt{3}\,l^3 r^2 R^7 +$$
$$4112 l^2 r^3 R^7 - 8480\sqrt{3}\,l\, r^4 R^7 - 328 r^5 R^7 - 9 l^4 R^8 + 192\sqrt{3}\,l^3 r R^8 + 894 l^2 r^2 R^8 - 3584\sqrt{3}\,l\, r^3 R^8 -$$
$$553 r^4 R^8 + 72 l^2 r R^9 - 768\sqrt{3}\,l\, r^2 R^9 - 456 r^3 R^9 + 4 l^2 R^{10} - 64\sqrt{3}\,l\, r R^{10} - 148 r^2 R^{10} - 16 r R^{11}\Big) \Big/$$
$$\Big(\big(l^2 - 2\sqrt{3}\,l\, r - r^2 - 4 r R\big)\,\big(l^4 - 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 6 l^2 R^2 + 22 r^2 R^2 + 24 r R^3 + 7 R^4\big)^2\Big)\}$$

$$\{\text{X16, 2nd ISODYNAMIC POINT, X71, ISOGONAL CONJUGATE OF X(27)},$$
$$\Big(4 l^2 R^2\big(3 l^4 - 2\sqrt{3}\,l^3 r - 8 l^2 r^2 + 6\sqrt{3}\,l\, r^3 - 3 r^4 - 16 l^2 r R + 24\sqrt{3}\,l\, r^2 R - 24 r^3 R + 4 l^2 R^2 +$$
$$24\sqrt{3}\,l\, r R^2 - 60 r^2 R^2 - 48 r R^3\big)\Big) \Big/ \Big(\big(l^2 - 2\sqrt{3}\,l\, r - r^2 - 4 r R\big)\,\big(l^2 + r^2 + 6 r R + 8 R^2\big)^2\Big)\}$$

$$\{\text{X16, 2nd ISODYNAMIC POINT, X72, ISOGONAL CONJUGATE OF X(28)},$$
$$-\Big(\big(l^4 r - 2\sqrt{3}\,l^3 r^2 - 2 l^2 r^3 + 2\sqrt{3}\,l\, r^4 + r^5 + l^4 R - 9 l^2 r^2 R + 10\sqrt{3}\,l\, r^3 R + 8 r^4 R -$$
$$16 l^2 r R^2 + 12\sqrt{3}\,l\, r^2 R^2 + 20 r^3 R^2 + 16 r^2 R^3\big) \Big/ \big(R\,\big(-l^2 + 2\sqrt{3}\,l\, r + r^2 + 4 r R\big)\big)\Big)\}$$

$$\{\text{X16, 2nd ISODYNAMIC POINT, X73, CROSSPOINT OF INCENTER AND CIRCUMCENTER},$$
$$\Big(4 r^2 R^2\big(-3 l^4 - 6\sqrt{3}\,l^3 r - 8 l^2 r^2 + 2\sqrt{3}\,l\, r^3 + 3 r^4 + 4 l^2 r R + 16\sqrt{3}\,l\, r^2 R + 20 r^3 R + 28 l^2 R^2 +$$
$$24\sqrt{3}\,l\, r R^2 + 28 r^2 R^2 - 32 r R^3 - 64 R^4\big)\Big) \Big/ \Big(\big(-l^2 + 2\sqrt{3}\,l\, r + r^2 + 4 r R\big)\,\big(l^2 + r^2 - 2 r R - 4 R^2\big)^2\Big)\}$$

$$\{\text{X16, 2nd ISODYNAMIC POINT, X74, ISOGONAL CONJUGATE OF EULER INFINITY POINT},$$
$$\frac{3 R^2\big(3 l^4 - 10 l^2 r^2 + 3 r^4 - 24 l^2 r R + 24 r^3 R - 12 l^2 R^2 + 60 r^2 R^2 + 48 r R^3\big)}{\big(l^2 - 2\sqrt{3}\,l\, r - r^2 - 4 r R\big)\,\big(2 l^2 - 2 r^2 - 8 r R - 9 R^2\big)}\}$$

$$\{\text{X16, 2nd ISODYNAMIC POINT, X75, ISOTOMIC CONJUGATE OF INCENTER},$$
$$\Big(l^8 + 4 l^6 r^2 + 6 l^4 r^4 + 4 l^2 r^6 + r^8 - 16 l^6 r R + 16\sqrt{3}\,l^5 r^2 R + 32 l^4 r^3 R - 48\sqrt{3}\,l^3 r^4 R + 16 r^7 R +$$
$$32 l^4 r^2 R^2 - 96\sqrt{3}\,l^3 r^3 R^2 - 96 l^2 r^4 R^2 + 96 r^6 R^2 - 128 l^2 r^3 R^3 + 256 r^5 R^3 + 256 r^4 R^4\Big) \Big/$$
$$\Big(\big(l^2 - 2\sqrt{3}\,l\, r - r^2 - 4 r R\big)\,\big(l^2 + r^2 + 4 r R\big)^2\Big)\}$$

$$\{\text{X16, 2nd ISODYNAMIC POINT, X76, 3rd BROCARD POINT},$$
$$\Big(l^{12} + 6 l^{10} r^2 + 15 l^8 r^4 + 20 l^6 r^6 + 15 l^4 r^8 + 6 l^2 r^{10} + r^{12} - 24 l^{10} r R -$$
$$72 l^8 r^3 R - 48 l^6 r^5 R + 48 l^4 r^7 R + 72 l^2 r^9 R + 24 r^{11} R + 144 l^8 r^2 R^2 + 64\sqrt{3}\,l^7 r^3 R^2 +$$
$$352 l^6 r^4 R^2 - 384\sqrt{3}\,l^5 r^5 R^2 - 256 l^4 r^6 R^2 + 64\sqrt{3}\,l^3 r^7 R^2 + 288 l^2 r^8 R^2 + 240 r^{10} R^2 -$$
$$128 l^6 r^3 R^3 - 512\sqrt{3}\,l^5 r^4 R^3 - 1024 l^4 r^5 R^3 + 512\sqrt{3}\,l^3 r^6 R^3 + 384 l^2 r^7 R^3 +$$
$$1280 r^9 R^3 - 768 l^4 r^4 R^4 + 1024\sqrt{3}\,l^3 r^5 R^4 + 3840 r^8 R^4 + 6144 r^7 R^5 + 4096 r^6 R^6\Big) \Big/$$
$$\Big(\big(l^2 - 2\sqrt{3}\,l\, r - r^2 - 4 r R\big)\,\big(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\big)^2\Big)\}$$

$$\{\text{X16, 2nd ISODYNAMIC POINT, X77, ISOGONAL CONJUGATE OF X(33)},$$
$$-\Big(\big(r^2 R\,\big(\sqrt{3}\,l + r + 4 R\big)\,\big(2 l^4 - 2 l^2 r^2 + 3\sqrt{3}\,l^3 R - 7 l^2 r R - \sqrt{3}\,l\, r^2 R + r^3 R - 20 l^2 R^2 - 8\sqrt{3}\,l\, r R^2 +$$
$$12 r^2 R^2 - 16\sqrt{3}\,l\, R^3 + 48 r R^3 + 64 R^4\big)\Big) \Big/ \Big(\big(-l^2 + 2\sqrt{3}\,l\, r + r^2 + 4 r R\big)\,\big(-l^2 + r R + 4 R^2\big)^2\Big)\Big)\}$$

{X16, 2nd ISODYNAMIC POINT, X78, ISOGONAL CONJUGATE OF X(34),

$$-\left(\left(R\left(-2\sqrt{3}\,l^3 r^2-2 l^2 r^3+2\sqrt{3}\,l r^4+2 r^5+l^4 R+2 l^2 r^2 R+12\sqrt{3}\,l r^3 R+13 r^4 R-16 l^2 r R^2+8\sqrt{3}\,l r^2 R^2+24 r^3 R^2+16 r^2 R^3\right)\right)\Big/\left((r-R)^2\left(-l^2+2\sqrt{3}\,l r+r^2+4 r R\right)\right)\right)\}$$

{X16, 2nd ISODYNAMIC POINT, X79, ISOGONAL CONJUGATE OF X(35),

$$-\left(\left(4 r^2\left(-2 l^4+6\sqrt{3}\,l^3 r+6 l^2 r^2-2\sqrt{3}\,l r^3+3\sqrt{3}\,l^3 R+17 l^2 r R-13\sqrt{3}\,l r^2 R+r^3 R+6 l^2 R^2-24\sqrt{3}\,l r R^2+10 r^2 R^2-9\sqrt{3}\,l R^3+33 r R^3+36 R^4\right)\right)\Big/\left((2 r+3 R)^2\left(-l^2+2\sqrt{3}\,l r+r^2+4 r R\right)\right)\right)\}$$

{X16, 2nd ISODYNAMIC POINT, X80, REFLECTION OF INCENTER IN FEUERBACH POINT,

$$\frac{4 r^2\left(-\sqrt{3}\,l^3-3 l^2 r+3\sqrt{3}\,l r^2+r^3+6\sqrt{3}\,l r R+6 r^2 R+3\sqrt{3}\,l R^2+9 r R^2+4 R^3\right)}{(2 r-R)\left(-l^2+2\sqrt{3}\,l r+r^2+4 r R\right)}\}$$

{X16, 2nd ISODYNAMIC POINT, X81, CEVAPOINT OF INCENTER AND SYMMEDIAN POINT,

$$-\left(\left(r^2 R\left(2\sqrt{3}\,l^5+4\sqrt{3}\,l^3 r^2+2\sqrt{3}\,l r^4+13 l^4 R+12\sqrt{3}\,l^3 r R-2 l^2 r^2 R+12\sqrt{3}\,l r^3 R+r^4 R+16 l^2 r R^2+16\sqrt{3}\,l r^2 R^2+8 r^3 R^2+16 r^2 R^3\right)\right)\Big/\left(\left(-l^2+r^2+r R\right)^2\left(-l^2+2\sqrt{3}\,l r+r^2+4 r R\right)\right)\right)\}$$

{X16, 2nd ISODYNAMIC POINT, X82, ISOGONAL CONJUGATE OF X(38),

$$-\left(\left(r^2 R\left(2\sqrt{3}\,l^9-2 l^8 r+4\sqrt{3}\,l^7 r^2-4 l^6 r^3-4\sqrt{3}\,l^3 r^6+4 l^2 r^7-2\sqrt{3}\,l r^8+2 r^9+13 l^8 R-28\sqrt{3}\,l^7 r R-40 l^6 r^2 R-12\sqrt{3}\,l^5 r^3 R+114 l^4 r^4 R-4\sqrt{3}\,l^3 r^5 R-48 l^2 r^6 R-20\sqrt{3}\,l r^7 R+41 r^8 R-192 l^6 r R^2+128\sqrt{3}\,l^5 r^2 R^2+672 l^4 r^3 R^2-48\sqrt{3}\,l^3 r^4 R^2-720 l^2 r^5 R^2-48\sqrt{3}\,l r^6 R^2+336 r^7 R^2+1152 l^4 r^2 R^3-288\sqrt{3}\,l^3 r^3 R^3-2624 l^2 r^4 R^3+64\sqrt{3}\,l r^5 R^3+1376 r^6 R^3-3072 l^2 r^3 R^4+256\sqrt{3}\,l r^4 R^4+2816 r^5 R^4+2304 r^4 R^5\right)\right)\Big/\left(\left(-l^2+2\sqrt{3}\,l r+r^2+4 r R\right)\left(l^4-4 l^2 r^2+3 r^4-9 l^2 r R+19 r^3 R+28 r^2 R^2\right)^2\right)\right)\}$$

{X16, 2nd ISODYNAMIC POINT, X83, CEVAPOINT OF CENTROID AND SYMMEDIAN POINT,

$$\left(l^{12}+8\sqrt{3}\,l^{11} r+6 l^{10} r^2+24\sqrt{3}\,l^9 r^3+15 l^8 r^4+16\sqrt{3}\,l^7 r^5+20 l^6 r^6-16\sqrt{3}\,l^5 r^7+15 l^4 r^8-24\sqrt{3}\,l^3 r^9+6 l^2 r^{10}-8\sqrt{3}\,l r^{11}+r^{12}-24 l^{10} r R-160\sqrt{3}\,l^9 r^2 R-72 l^8 r^3 R-128\sqrt{3}\,l^7 r^4 R-48 l^6 r^5 R+64\sqrt{3}\,l^5 r^6 R+48 l^4 r^7 R-128\sqrt{3}\,l^3 r^8 R+72 l^2 r^9 R-160\sqrt{3}\,l r^{10} R+24 r^{11} R+432 l^8 r^2 R^2+1216\sqrt{3}\,l^7 r^3 R^2-128 l^6 r^4 R^2-896\sqrt{3}\,l^5 r^5 R^2+224 l^4 r^6 R^2+704\sqrt{3}\,l^3 r^7 R^2-1280\sqrt{3}\,l r^9 R^2+240 r^{10} R^2-3584 l^6 r^3 R^3-4608\sqrt{3}\,l^5 r^4 R^3+4352 l^4 r^5 R^3+5632\sqrt{3}\,l^3 r^6 R^3-3072 l^2 r^7 R^3-5120\sqrt{3}\,l r^8 R^3+1280 r^9 R^3+13056 l^4 r^4 R^4+9216\sqrt{3}\,l^3 r^5 R^4-13824 l^2 r^6 R^4-10240\sqrt{3}\,l r^7 R^4+3840 r^8 R^4-18432 l^2 r^5 R^5-8192\sqrt{3}\,l r^6 R^5+6144 r^7 R^5+4096 r^6 R^6\right)\Big/\left(\left(l^2-2\sqrt{3}\,l r-r^2-4 r R\right)\left(5 l^4-6 l^2 r^2+5 r^4-40 l^2 r R+40 r^3 R+80 r^2 R^2\right)^2\right)\}$$

{X16, 2nd ISODYNAMIC POINT, X84, ISOGONAL CONJUGATE OF X(40),

$$\left(4 R\left(-l^4 r+\sqrt{3}\,l^3 r^2+l^4 R-2\sqrt{3}\,l^3 r R+5 l^2 r^2 R-4 l^2 r R^2+4\sqrt{3}\,l r^2 R^2-4 l^2 R^3+8\sqrt{3}\,l r R^3+4 r^2 R^3+16 r R^4\right)\right)\Big/\left(r^2\left(-l^2+2\sqrt{3}\,l r+r^2+4 r R\right)\right)\}$$

{X16, 2nd ISODYNAMIC POINT, X85, ISOTOMIC CONJUGATE OF X(9),

$$\frac{1}{\left(l^2-2\sqrt{3}\,l r-r^2-4 r R\right)\left(l^2+r^2+8 r R+16 R^2\right)^2}$$

$$\left(l^8+4 l^6 r^2+6 l^4 r^4+4 l^2 r^6+r^8-24 l^6 r R+48\sqrt{3}\,l^5 r^2 R+56 l^4 r^3 R-16\sqrt{3}\,l^3 r^4 R+40 l^2 r^5 R+24 r^7 R+32\sqrt{3}\,l^5 r R^2+144 l^4 r^2 R^2-128\sqrt{3}\,l^3 r^3 R^2+96 l^2 r^4 R^2+240 r^6 R^2+64 l^4 r R^3-256\sqrt{3}\,l^3 r^2 R^3-128 l^2 r^3 R^3+1280 r^5 R^3-512 l^2 r^2 R^4+3840 r^4 R^4+6144 r^3 R^5+4096 r^2 R^6\right)\}$$

$$\{X16,\ 2nd\ ISODYNAMIC\ POINT,\ X86,\ CEVAPOINT\ OF\ INCENTER\ AND\ CENTROID,$$
$$\left(l^8+8\sqrt{3}\,l^7 r+12 l^6 r^2+16\sqrt{3}\,l^5 r^3+22 l^4 r^4+8\sqrt{3}\,l^3 r^5+12 l^2 r^6+r^8+80 l^4 r^3 R+96 l^2 r^5 R+16 r^7 R+160 l^4 r^2 R^2-32\sqrt{3}\,l^3 r^3 R^2+288 l^2 r^4 R^2+96 r^6 R^2+384 l^2 r^3 R^3+256 r^5 R^3+256 r^4 R^4\right)\Big/$$
$$\left(\left(l^2-2\sqrt{3}\,l r-r^2-4 r R\right)\left(5 l^2+r^2+4 r R\right)^2\right)\}$$

$$\{X16,\ 2nd\ ISODYNAMIC\ POINT,\ X87,\ X(2)\text{-}CROSS\ CONJUGATE\ OF\ X(1),$$
$$\left(4 r^2 R\left(\sqrt{3}\,l^9+l^8 r+4\sqrt{3}\,l^7 r^2+4 l^6 r^3+6\sqrt{3}\,l^5 r^4+6 l^4 r^5+4\sqrt{3}\,l^3 r^6+4 l^2 r^7+\sqrt{3}\,l r^8+r^9-4 l^8 R-28\sqrt{3}\,l^7 r R-28 l^6 r^2 R-52\sqrt{3}\,l^5 r^3 R-28 l^4 r^4 R-20\sqrt{3}\,l^3 r^5 R+12 l^2 r^6 R+4\sqrt{3}\,l r^7 R+16 r^8 R+112 l^6 r R^2+208\sqrt{3}\,l^5 r^2 R^2+64 l^4 r^3 R^2+160\sqrt{3}\,l^3 r^4 R^2+48 l^2 r^5 R^2-48\sqrt{3}\,l r^6 R^2+96 r^7 R^2-832 l^4 r^2 R^3-320\sqrt{3}\,l^3 r^3 R^3+448 l^2 r^4 R^3-320\sqrt{3}\,l r^5 R^3+256 r^6 R^3+768 l^2 r^3 R^4-512\sqrt{3}\,l r^4 R^4+256 r^5 R^4\right)\right)\Big/$$
$$\left(\left(-l^2+2\sqrt{3}\,l r+r^2+4 r R\right)\left(l^4+2 l^2 r^2+r^4-20 l^2 r R+12 r^3 R+32 r^2 R^2\right)^2\right)\}$$

$$\{X16,\ 2nd\ ISODYNAMIC\ POINT,\ X88,\ ISOGONAL\ CONJUGATE\ OF\ X(44),$$
$$\left(r^2 R\left(-2\sqrt{3}\,l^5-8 l^4 r-12\sqrt{3}\,l^3 r^2-72 l^2 r^3+54\sqrt{3}\,l r^4+13 l^4 R+60\sqrt{3}\,l^3 r R+126 l^2 r^2 R+108\sqrt{3}\,l r^3 R+81 r^4 R-288 l^2 r R^2-432\sqrt{3}\,l r^2 R^2+648 r^3 R^2+1296 r^2 R^3\right)\right)\Big/$$
$$\left(\left(l^2+3 r^2-15 r R\right)^2\left(l^2-2\sqrt{3}\,l r-r^2-4 r R\right)\right)\}$$

$$\{X16,\ 2nd\ ISODYNAMIC\ POINT,\ X89,\ ISOGONAL\ CONJUGATE\ OF\ X(45),$$
$$\left(r^2 R\left(4\sqrt{3}\,l^5-8 l^4 r+48\sqrt{3}\,l^3 r^2-72 l^2 r^3+108\sqrt{3}\,l r^4+49 l^4 R+84\sqrt{3}\,l^3 r R-198 l^2 r^2 R+540\sqrt{3}\,l r^3 R+81 r^4 R+360 l^2 r R^2+432\sqrt{3}\,l r^2 R^2+648 r^3 R^2+1296 r^2 R^3\right)\right)\Big/$$
$$\left(\left(l^2-2\sqrt{3}\,l r-r^2-4 r R\right)\left(2 l^2-6 r^2+3 r R\right)^2\right)\}$$

$$\{X16,\ 2nd\ ISODYNAMIC\ POINT,\ X90,\ X(3)\text{-}CROSS\ CONJUGATE\ OF\ X(1),$$
$$\left(4 r^2 R\left(-l^4 r+\sqrt{3}\,l^3 r^2-2\sqrt{3}\,l^3 r R+4 l^2 r^2 R+\sqrt{3}\,l^3 R^2+6 l^2 r R^2+\sqrt{3}\,l r^2 R^2+2\sqrt{3}\,l r R^3-3\sqrt{3}\,l R^4-r R^4-4 R^5\right)\right)\Big/\left(\left(-l^2+2\sqrt{3}\,l r+r^2+4 r R\right)\left(r^2+2 r R-R^2\right)^2\right)\}$$

$$\{X16,\ 2nd\ ISODYNAMIC\ POINT,\ X91,\ ISOGONAL\ CONJUGATE\ OF\ X(47),$$
$$-\left(\left(r^2\left(l^8+4 l^6 r^2+6 l^4 r^4+4 l^2 r^6+r^8-2\sqrt{3}\,l^7 R-22 l^6 r R+18\sqrt{3}\,l^5 r^2 R+22 l^4 r^3 R-38\sqrt{3}\,l^3 r^4 R-2 l^2 r^5 R+6\sqrt{3}\,l r^6 R+18 r^7 R-8 l^6 R^2+28\sqrt{3}\,l^5 r R^2+84 l^4 r^2 R^2-136\sqrt{3}\,l^3 r^3 R^2-128 l^2 r^4 R^2+60\sqrt{3}\,l r^5 R^2+132 r^6 R^2+12\sqrt{3}\,l^5 R^3+140 l^4 r R^3-184\sqrt{3}\,l^3 r^2 R^3-408 l^2 r^3 R^3+220\sqrt{3}\,l r^4 R^3+508 r^5 R^3+36 l^4 R^4-112\sqrt{3}\,l^3 r R^4-584 l^2 r^2 R^4+368\sqrt{3}\,l r^3 R^4+1108 r^4 R^4-24\sqrt{3}\,l^3 R^5-392 l^2 r R^5+296\sqrt{3}\,l r^2 R^5+1400 r^3 R^5-80 l^2 R^6+112\sqrt{3}\,l r R^6+1024 r^2 R^6+16\sqrt{3}\,l R^7+400 r R^7+64 R^8\right)\right)\Big/$$
$$\left(\left(-l^2+2\sqrt{3}\,l r+r^2+4 r R\right)\left(l^2 r+r^3-l^2 R+3 r^2 R+2 r R^2+2 R^3\right)^2\right)\right)\}$$

$$\{X16,\ 2nd\ ISODYNAMIC\ POINT,\ X92,$$
$$CEVAPOINT\ OF\ INCENTER\ AND\ CLAWSON\ POINT,\ \frac{1}{\left(l^2-2\sqrt{3}\,l r-r^2-4 r R\right)\left(l^2+r^2-4 R^2\right)^2}$$
$$\left(l^8+4 l^6 r^2+6 l^4 r^4+4 l^2 r^6+r^8-24 l^6 r R+24\sqrt{3}\,l^5 r^2 R+16 l^4 r^3 R-32\sqrt{3}\,l^3 r^4 R-8 l^2 r^5 R+8\sqrt{3}\,l r^6 R+16 r^7 R-8 l^6 R^2+104 l^4 r^2 R^2-144\sqrt{3}\,l^3 r^3 R^2-136 l^2 r^4 R^2+80\sqrt{3}\,l r^5 R^2+104 r^6 R^2+160 l^4 r R^3-160\sqrt{3}\,l^3 r^2 R^3-384 l^2 r^3 R^3+288\sqrt{3}\,l r^4 R^3+352 r^5 R^3+16 l^4 R^4-480 l^2 r^2 R^4+448\sqrt{3}\,l r^3 R^4+656 r^4 R^4-256 l^2 r R^5+256\sqrt{3}\,l r^2 R^5+640 r^3 R^5+256 r^2 R^6\right)\}$$

$$\{\text{X16, 2nd ISODYNAMIC POINT, X93, ISOGONAL CONJUGATE OF X(49)},$$
$$\Big(l^{12}+6 l^{10} r^2+15 l^8 r^4+20 l^6 r^6+15 l^4 r^8+6 l^2 r^{10}+r^{12}-24 l^{10} r R-72 l^8 r^3 R-48 l^6 r^5 R+$$
$$48 l^4 r^7 R+72 l^2 r^9 R+24 r^{11} R-10 l^{10} R^2-8 \sqrt{3}\, l^9 r R^2+66 l^8 r^2 R^2+128 \sqrt{3}\, l^7 r^3 R^2+$$
$$284 l^6 r^4 R^2-240 \sqrt{3}\, l^5 r^5 R^2-188 l^4 r^6 R^2+128 \sqrt{3}\, l^3 r^7 R^2+366 l^2 r^8 R^2-8 \sqrt{3}\, l r^9 R^2+$$
$$250 r^{10} R^2+200 l^8 r R^3+128 \sqrt{3}\, l^7 r^2 R^3+608 l^6 r^3 R^3-1152 \sqrt{3}\, l^5 r^4 R^3-1488 l^4 r^5 R^3+$$
$$1152 \sqrt{3}\, l^3 r^6 R^3+1120 l^2 r^7 R^3-128 \sqrt{3}\, l r^8 R^3+1480 r^9 R^3+32 l^8 R^4+76 \sqrt{3}\, l^7 r R^4-$$
$$312 l^6 r^2 R^4-1716 \sqrt{3}\, l^5 r^3 R^4-3696 l^4 r^4 R^4+4020 \sqrt{3}\, l^3 r^5 R^4+2632 l^2 r^6 R^4-844 \sqrt{3}\, l r^7 R^4+$$
$$5472 r^8 R^4-512 l^6 r R^5-912 \sqrt{3}\, l^5 r^2 R^5-3392 l^4 r^3 R^5+6752 \sqrt{3}\, l^3 r^4 R^5+5184 l^2 r^5 R^5-$$
$$2960 \sqrt{3}\, l r^6 R^5+13056 r^7 R^5-34 l^6 R^6-240 \sqrt{3}\, l^5 r R^6-354 l^4 r^2 R^6+5472 \sqrt{3}\, l^3 r^3 R^6+$$
$$7138 l^2 r^4 R^6-5936 \sqrt{3}\, l r^5 R^6+20002 r^6 R^6+408 l^4 r R^7+1920 \sqrt{3}\, l^3 r^2 R^7+5104 l^2 r^3 R^7-$$
$$6784 \sqrt{3}\, l r^4 R^7+18840 r^5 R^7+7 l^4 R^8+284 \sqrt{3}\, l^3 r R^8+1110 l^2 r^2 R^8-4124 \sqrt{3}\, l r^3 R^8+9831 r^4 R^8-$$
$$56 l^2 r R^9-1136 \sqrt{3}\, l r^2 R^9+2232 r^3 R^9+4 l^2 R^{10}-112 \sqrt{3}\, l r R^{10}+108 r^2 R^{10}-16 r R^{11}\Big)\Big/$$
$$\Big(\Big(l^2-2 \sqrt{3}\, l r-r^2-4 r R\Big)\Big(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-8 l^2 R^2+24 r^2 R^2+32 r R^3+13 R^4\Big)^2\Big)\}$$

$$\{\text{X16, 2nd ISODYNAMIC POINT, X94, ISOGONAL CONJUGATE OF X(50)},$$
$$\Big(l^{12}+6 l^{10} r^2+15 l^8 r^4+20 l^6 r^6+15 l^4 r^8+6 l^2 r^{10}+r^{12}-24 l^{10} r R-72 l^8 r^3 R-48 l^6 r^5 R+$$
$$48 l^4 r^7 R+72 l^2 r^9 R+24 r^{11} R-12 l^{10} R^2-12 \sqrt{3}\, l^9 r R^2+60 l^8 r^2 R^2+112 \sqrt{3}\, l^7 r^3 R^2+$$
$$280 l^6 r^4 R^2-264 \sqrt{3}\, l^5 r^5 R^2-184 l^4 r^6 R^2+112 \sqrt{3}\, l^3 r^7 R^2+372 l^2 r^8 R^2-12 \sqrt{3}\, l r^9 R^2+$$
$$252 r^{10} R^2+240 l^8 r R^3+192 \sqrt{3}\, l^7 r^2 R^3+640 l^6 r^3 R^3-1088 \sqrt{3}\, l^5 r^4 R^3-1504 l^4 r^5 R^3+$$
$$1088 \sqrt{3}\, l^3 r^6 R^3+1152 l^2 r^7 R^3-192 \sqrt{3}\, l r^8 R^3+1520 r^9 R^3+54 l^8 R^4+108 \sqrt{3}\, l^7 r R^4-$$
$$480 l^6 r^2 R^4-1812 \sqrt{3}\, l^5 r^3 R^4-3756 l^4 r^4 R^4+3988 \sqrt{3}\, l^3 r^5 R^4+2592 l^2 r^6 R^4-$$
$$1260 \sqrt{3}\, l r^7 R^4+5814 r^8 R^4-864 l^6 r R^5-1296 \sqrt{3}\, l^5 r^2 R^5-2976 l^4 r^3 R^5+7008 \sqrt{3}\, l^3 r^4 R^5+$$
$$4512 l^2 r^5 R^5-4368 \sqrt{3}\, l r^6 R^5+14688 r^7 R^5-108 l^6 R^6-324 \sqrt{3}\, l^5 r R^6+756 l^4 r^2 R^6+$$
$$6264 \sqrt{3}\, l^3 r^3 R^6+5196 l^2 r^4 R^6-8580 \sqrt{3}\, l r^5 R^6+24748 r^6 R^6+1296 l^4 r R^7+2592 \sqrt{3}\, l^3 r^2 R^7+$$
$$2592 l^2 r^3 R^7-9504 \sqrt{3}\, l r^4 R^7+27408 r^5 R^7+81 l^4 R^8+324 \sqrt{3}\, l^3 r R^8-486 l^2 r^2 R^8-$$
$$5508 \sqrt{3}\, l r^3 R^8+19089 r^4 R^8-648 l^2 r R^9-1296 \sqrt{3}\, l r^2 R^9+7560 r^3 R^9+1296 r^2 R^{10}\Big)\Big/$$
$$\Big(\Big(l^2-2 \sqrt{3}\, l r-r^2-4 r R\Big)\Big(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-12 l^2 R^2+28 r^2 R^2+48 r R^3+27 R^4\Big)^2\Big)\}$$

$$\{\text{X16, 2nd ISODYNAMIC POINT, X95, CEVAPOINT OF CENTROID AND CIRCUMCENTER},$$
$$\Big(l^{12}+22 l^{10} r^2+79 l^8 r^4+116 l^6 r^6+79 l^4 r^8+22 l^2 r^{10}+r^{12}-24 l^{10} r R-328 l^8 r^3 R-304 l^6 r^5 R+$$
$$304 l^4 r^7 R+328 l^2 r^9 R+24 r^{11} R-8 l^{10} R^2+24 l^8 r^2 R^2+192 \sqrt{3}\, l^7 r^3 R^2+1008 l^6 r^4 R^2+$$
$$384 \sqrt{3}\, l^5 r^5 R^2-400 l^4 r^6 R^2+192 \sqrt{3}\, l^3 r^7 R^2+1944 l^2 r^8 R^2+248 r^{10} R^2+160 l^8 r R^3+$$
$$1152 l^6 r^3 R^3-1536 \sqrt{3}\, l^5 r^4 R^3-2880 l^4 r^5 R^3+1536 \sqrt{3}\, l^3 r^6 R^3+5760 l^2 r^7 R^3+1440 r^9 R^3+$$
$$16 l^8 R^4-384 l^6 r^2 R^4-1152 \sqrt{3}\, l^5 r^3 R^4-2592 l^4 r^4 R^4+4224 \sqrt{3}\, l^3 r^5 R^4+8832 l^2 r^6 R^4+$$
$$5136 r^8 R^4-256 l^6 r R^5-1792 l^4 r^3 R^5+4608 \sqrt{3}\, l^3 r^4 R^5+6912 l^2 r^5 R^5+11520 r^7 R^5+$$
$$1536 \sqrt{3}\, l^3 r^3 R^6+3584 l^2 r^4 R^6+15872 r^6 R^6+2048 l^2 r^3 R^7+12288 r^5 R^7+4096 r^4 R^8\Big)\Big/$$
$$\Big(\Big(l^2-2 \sqrt{3}\, l r-r^2-4 r R\Big)\Big(l^4+18 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-4 l^2 R^2+20 r^2 R^2+16 r R^3\Big)^2\Big)\}$$

$$\Big\{\text{X16, 2nd ISODYNAMIC POINT, X96, ISOGONAL CONJUGATE OF X(52)},$$
$$-\Big(\Big(l^{12}-10\,l^{10}\,r^2-49\,l^8\,r^4-76\,l^6\,r^6-49\,l^4\,r^8-10\,l^2\,r^{10}+r^{12}-24\,l^{10}\,r\,R+184\,l^8\,r^3\,R+208\,l^6\,r^5\,R-$$
$$208\,l^4\,r^7\,R-184\,l^2\,r^9\,R+24\,r^{11}\,R-12\,l^{10}\,R^2+8\sqrt{3}\,l^9\,r\,R^2+332\,l^8\,r^2\,R^2-32\sqrt{3}\,l^7\,r^3\,R^2-$$
$$728\,l^6\,r^4\,R^2-80\sqrt{3}\,l^5\,r^5\,R^2+312\,l^4\,r^6\,R^2-32\sqrt{3}\,l^3\,r^7\,R^2-1436\,l^2\,r^8\,R^2+8\sqrt{3}\,l\,r^9\,R^2+252\,r^{10}\,R^2+$$
$$240\,l^8\,r\,R^3-128\sqrt{3}\,l^7\,r^2\,R^3-2624\,l^6\,r^3\,R^3+384\sqrt{3}\,l^5\,r^4\,R^3+3744\,l^4\,r^5\,R^3-384\sqrt{3}\,l^3\,r^6\,R^3-$$
$$6208\,l^2\,r^7\,R^3+128\sqrt{3}\,l\,r^8\,R^3+1520\,r^9\,R^3+56\,l^8\,R^4-80\sqrt{3}\,l^7\,r\,R^4-2336\,l^6\,r^2\,R^4+$$
$$1072\sqrt{3}\,l^5\,r^3\,R^4+10448\,l^4\,r^4\,R^4-1840\sqrt{3}\,l^3\,r^5\,R^4-16416\,l^2\,r^6\,R^4+848\sqrt{3}\,l\,r^7\,R^4+5816\,r^8\,R^4-$$
$$896\,l^6\,r\,R^5+960\sqrt{3}\,l^5\,r^2\,R^5+11904\,l^4\,r^3\,R^5-4224\sqrt{3}\,l^3\,r^4\,R^5-27776\,l^2\,r^5\,R^5+3008\sqrt{3}\,l\,r^6\,R^5+$$
$$14720\,r^7\,R^5-128\,l^6\,R^6+288\sqrt{3}\,l^5\,r\,R^6+6272\,l^4\,r^2\,R^6-4544\sqrt{3}\,l^3\,r^3\,R^6-30080\,l^2\,r^4\,R^6+$$
$$6176\sqrt{3}\,l\,r^5\,R^6+24960\,r^6\,R^6+1536\,l^4\,r\,R^7-2304\sqrt{3}\,l^3\,r^2\,R^7-19456\,l^2\,r^3\,R^7+7424\sqrt{3}\,l\,r^4\,R^7+$$
$$28160\,r^5\,R^7+144\,l^4\,R^8-448\sqrt{3}\,l^3\,r\,R^8-6880\,l^2\,r^2\,R^8+5056\sqrt{3}\,l\,r^3\,R^8+20624\,r^4\,R^8-$$
$$1152\,l^2\,r\,R^9+1792\sqrt{3}\,l\,r^2\,R^9+9344\,r^3\,R^9-64\,l^2\,R^{10}+256\sqrt{3}\,l\,r\,R^{10}+2368\,r^2\,R^{10}+256\,r\,R^{11}\Big)\Big/$$
$$\Big(\Big(l^2-2\sqrt{3}\,l\,r-r^2-4\,r\,R\Big)\Big(l^4-14\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R+16\,r^2\,R^2-4\,R^4\Big)^2\Big)\Big)\Big\}$$

$$\Big\{\text{X16, 2nd ISODYNAMIC POINT, X97, ISOGONAL CONJUGATE OF X(53)},$$
$$\Big(R^2\Big(-2\sqrt{3}\,l^9\,r+16\,l^8\,r^2+8\sqrt{3}\,l^7\,r^3-112\,l^6\,r^4+20\sqrt{3}\,l^5\,r^5+112\,l^4\,r^6+8\sqrt{3}\,l^3\,r^7-16\,l^2\,r^8-$$
$$2\sqrt{3}\,l\,r^9+32\sqrt{3}\,l^7\,r^2\,R-192\,l^6\,r^3\,R-96\sqrt{3}\,l^5\,r^4\,R+640\,l^4\,r^5\,R+96\sqrt{3}\,l^3\,r^6\,R-$$
$$192\,l^2\,r^7\,R-32\sqrt{3}\,l\,r^8\,R+l^8\,R^2+20\sqrt{3}\,l^7\,r\,R^2-176\,l^6\,r^2\,R^2-268\sqrt{3}\,l^5\,r^3\,R^2+1438\,l^4\,r^4\,R^2+$$
$$460\sqrt{3}\,l^3\,r^5\,R^2-944\,l^2\,r^6\,R^2-212\sqrt{3}\,l\,r^7\,R^2+r^8\,R^2-16\,l^6\,r\,R^3-240\sqrt{3}\,l^5\,r^2\,R^3+1424\,l^4\,r^3\,R^3+$$
$$1056\sqrt{3}\,l^3\,r^4\,R^3-2448\,l^2\,r^5\,R^3-752\sqrt{3}\,l\,r^6\,R^3+16\,r^7\,R^3-8\,l^6\,R^4-64\sqrt{3}\,l^5\,r\,R^4+$$
$$792\,l^4\,r^2\,R^4+1152\sqrt{3}\,l^3\,r^3\,R^4-3640\,l^2\,r^4\,R^4-1536\sqrt{3}\,l\,r^5\,R^4+104\,r^6\,R^4+96\,l^4\,r\,R^5+$$
$$512\sqrt{3}\,l^3\,r^2\,R^5-3136\,l^2\,r^3\,R^5-1792\sqrt{3}\,l\,r^4\,R^5+352\,r^5\,R^5+16\,l^4\,R^6+64\sqrt{3}\,l^3\,r\,R^6-$$
$$1376\,l^2\,r^2\,R^6-1088\sqrt{3}\,l\,r^3\,R^6+656\,r^4\,R^6-128\,l^2\,r\,R^7-256\sqrt{3}\,l\,r^2\,R^7+640\,r^3\,R^7+256\,r^2\,R^8\Big)\Big)\Big/$$
$$\Big(\Big(l^2-2\sqrt{3}\,l\,r-r^2-4\,r\,R\Big)\Big(l^4-6\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-7\,l^2\,R^2+23\,r^2\,R^2+28\,r\,R^3+12\,R^4\Big)^2\Big)\Big\}$$

$$\Big\{\text{X16, 2nd ISODYNAMIC POINT, X98, TarryPoint},$$
$$-\Big(\Big(l^8+4\,l^6\,r^2+6\,l^4\,r^4+4\,l^2\,r^6+r^8-16\,l^6\,r\,R-16\,l^4\,r^3\,R+16\,l^2\,r^5\,R+16\,r^7\,R-4\,l^6\,R^2+60\,l^4\,r^2\,R^2-$$
$$28\,l^2\,r^4\,R^2+100\,r^6\,R^2+48\,l^4\,r\,R^3-160\,l^2\,r^3\,R^3+304\,r^5\,R^3-192\,l^2\,r^2\,R^4+448\,r^4\,R^4+256\,r^3\,R^5\Big)\Big/$$
$$\Big(\Big(l^2-2\sqrt{3}\,l\,r-r^2-4\,r\,R\Big)^2\Big(l^2+2\sqrt{3}\,l\,r-r^2-4\,r\,R\Big)\Big)\Big)\Big\}$$

$$\Big\{\text{X16, 2nd ISODYNAMIC POINT, X99, STEINER POINT},$$
$$\Big(l^8+4\,l^6\,r^2+6\,l^4\,r^4+4\,l^2\,r^6+r^8-16\,l^6\,r\,R-16\,l^4\,r^3\,R+16\,l^2\,r^5\,R+16\,r^7\,R+32\,l^2\,r^4\,R^2+96\,r^6\,R^2+$$
$$128\,l^2\,r^3\,R^3+256\,r^5\,R^3+256\,r^4\,R^4\Big)\Big/\Big(\Big(l^2-2\sqrt{3}\,l\,r-r^2-4\,r\,R\Big)^2\Big(l^2+2\sqrt{3}\,l\,r-r^2-4\,r\,R\Big)\Big)\Big\}$$

$$\Big\{\text{X16, 2nd ISODYNAMIC POINT, X100},$$
$$\text{ANTICOMPLEMENT OF FEUERBACH POINT},\ \frac{R\,\Big(l^4+2\,l^2\,r^2+r^4-16\,l^2\,r\,R+8\,r^3\,R+16\,r^2\,R^2\Big)}{(2\,r-R)\,\Big(-l^2+2\sqrt{3}\,l\,r+r^2+4\,r\,R\Big)}\Big\}$$

$$\Big\{\text{X17, 1st NAPOLEON POINT, X18, 2nd NAPOLEON POINT},$$
$$\Big(48\,l^2\,r^2\Big(2\,l^6+34\,l^4\,r^2-34\,l^2\,r^4-2\,r^6-24\,l^4\,r\,R-112\,l^2\,r^3\,R-24\,r^5\,R+l^4\,R^2-206\,l^2\,r^2\,R^2-95\,r^4\,R^2-$$
$$8\,l^2\,r\,R^3-120\,r^3\,R^3+16\,r^2\,R^4\Big)\Big)\Big/\Big(3\,l^4-106\,l^2\,r^2+3\,r^4-24\,l^2\,r\,R+24\,r^3\,R+48\,r^2\,R^2\Big)^2\Big\}$$

$$\left\{\text{X17, 1st NAPOLEON POINT, X19, CLAWSON POINT,}\right.$$

$$-\frac{1}{\left(3 l^2+10\sqrt{3}\, l r-3 r^2-12 r R\right)^2 \left(l^2-r^2-6 r R-8 R^2\right)^2}$$

$$12 l^2 \left(2\sqrt{3}\, l^7 r+18 l^6 r^2-2\sqrt{3}\, l^5 r^3-34 l^4 r^4-2\sqrt{3}\, l^3 r^5+14 l^2 r^6+2\sqrt{3}\, l r^7+2 r^8+6 l^6 r R+\right.$$
$$2\sqrt{3}\, l^5 r^2 R-80 l^4 r^3 R-32\sqrt{3}\, l^3 r^4 R+42 l^2 r^5 R+30\sqrt{3}\, l r^6 R+32 r^7 R+3 l^6 R^2-$$
$$4\sqrt{3}\, l^5 r R^2-175 l^4 r^2 R^2-148\sqrt{3}\, l^3 r^3 R^2+53 l^2 r^4 R^2+176\sqrt{3}\, l r^5 R^2+199 r^6 R^2-$$
$$84 l^4 r R^3-152\sqrt{3}\, l^3 r^2 R^3+240 l^2 r^3 R^3+504\sqrt{3}\, l r^4 R^3+596 r^5 R^3-12 l^4 R^4-16\sqrt{3}\, l^3 r R^4+$$
$$\left.\left.464 l^2 r^2 R^4+704\sqrt{3}\, l r^3 R^4+844 r^4 R^4+192 l^2 r R^5+384\sqrt{3}\, l r^2 R^5+416 r^3 R^5-64 r^2 R^6\right)\right\}$$

$$\left\{\text{X17, 1st NAPOLEON POINT, X20, DE LONGCHAMPS POINT,}\right.$$

$$-\frac{1}{\left(3 l^2+10\sqrt{3}\, l r-3 r^2-12 r R\right)^2}3\left(9 l^6+70\sqrt{3}\, l^5 r+377 l^4 r^2-84\sqrt{3}\, l^3 r^3-377 l^2 r^4+70\sqrt{3}\, l r^5-\right.$$
$$9 r^6-108 l^4 r R-560\sqrt{3}\, l^3 r^2 R-1400 l^2 r^3 R+560\sqrt{3}\, l r^4 R-108 r^5 R-48 l^4 R^2-336\sqrt{3}\, l^3 r R^2-$$
$$\left.\left.1200 l^2 r^2 R^2+1456\sqrt{3}\, l r^3 R^2-480 r^4 R^2+384 l^2 r R^3+1344\sqrt{3}\, l r^2 R^3-960 r^3 R^3-768 r^2 R^4\right)\right\}$$

$$\left\{\text{X17, 1st NAPOLEON POINT, X21, SCHIFFLER POINT, }-\frac{1}{(2 r+3 R)^2\left(3 l^2+10\sqrt{3}\, l r-3 r^2-12 r R\right)^2}\right.$$

$$3\left(16\sqrt{3}\, l^5 r^3+128 l^4 r^4+32\sqrt{3}\, l^3 r^5-128 l^2 r^6+16\sqrt{3}\, l r^7-6 l^6 r R-4\sqrt{3}\, l^5 r^2 R+58 l^4 r^3 R-\right.$$
$$8\sqrt{3}\, l^3 r^4 R-570 l^2 r^5 R+124\sqrt{3}\, l r^6 R+6 r^7 R-3 l^6 R^2-2\sqrt{3}\, l^5 r R^2+41 l^4 r^2 R^2-$$
$$36\sqrt{3}\, l^3 r^3 R^2-693 l^2 r^4 R^2+318\sqrt{3}\, l r^5 R^2+63 r^6 R^2+36 l^4 r R^3-8\sqrt{3}\, l^3 r^2 R^3-$$
$$\left.\left.8 l^2 r^3 R^3+328\sqrt{3}\, l r^4 R^3+228 r^5 R^3+144 l^2 r^2 R^4+64\sqrt{3}\, l r^3 R^4+336 r^4 R^4+192 r^3 R^5\right)\right\}$$

$$\left\{\text{X17, 1st NAPOLEON POINT, X22, ExeterPoint,}\right.$$

$$-\frac{1}{\left(3 l^2+10\sqrt{3}\, l r-3 r^2-12 r R\right)^2 \left(l^2-r^2-4 r R-3 R^2\right)^2}3\left(4\sqrt{3}\, l^9 r+32 l^8 r^2-96 l^6 r^4-8\sqrt{3}\, l^5 r^5+\right.$$
$$96 l^4 r^6-32 l^2 r^8+4\sqrt{3}\, l r^9-64\sqrt{3}\, l^7 r^2 R-384 l^6 r^3 R+64\sqrt{3}\, l^5 r^4 R+768 l^4 r^5 R-$$
$$64\sqrt{3}\, l^3 r^6 R-384 l^2 r^7 R+64\sqrt{3}\, l r^8 R-22\sqrt{3}\, l^7 r R^2-128 l^6 r^2 R^2+394\sqrt{3}\, l^5 r^3 R^2+$$
$$1792 l^4 r^4 R^2-522\sqrt{3}\, l^3 r^5 R^2-1664 l^2 r^6 R^2+406\sqrt{3}\, l r^7 R^2+264\sqrt{3}\, l^5 r^2 R^3+1024 l^4 r^3 R^3-$$
$$1328\sqrt{3}\, l^3 r^4 R^3-3072 l^2 r^5 R^3+1288\sqrt{3}\, l r^6 R^3-3 l^6 R^4+10\sqrt{3}\, l^5 r R^4-91 l^4 r^2 R^4-$$
$$1052\sqrt{3}\, l^3 r^3 R^4-1957 l^2 r^4 R^4+2090\sqrt{3}\, l r^5 R^4+3 r^6 R^4+36 l^4 r R^5-80\sqrt{3}\, l^3 r^2 R^5+$$
$$\left.\left.328 l^2 r^3 R^5+1488\sqrt{3}\, l r^4 R^5+36 r^5 R^5+144 l^2 r^2 R^6+160\sqrt{3}\, l r^3 R^6+144 r^4 R^6+192 r^3 R^7\right)\right\}$$

$$\left\{\text{X17, 1st NAPOLEON POINT, X23, FarOutPoint,}\right.$$

$$-\frac{1}{\left(3 l^2+10\sqrt{3}\, l r-3 r^2-12 r R\right)^2 \left(2 l^2-2 r^2-8 r R-9 R^2\right)}$$

$$3\left(8\sqrt{3}\, l^7 r+64 l^6 r^2+8\sqrt{3}\, l^5 r^3-128 l^4 r^4-8\sqrt{3}\, l^3 r^5+64 l^2 r^6-8\sqrt{3}\, l r^7-96\sqrt{3}\, l^5 r^2 R-\right.$$
$$512 l^4 r^3 R+64\sqrt{3}\, l^3 r^4 R+512 l^2 r^5 R-96\sqrt{3}\, l r^6 R+3 l^6 R^2-6\sqrt{3}\, l^5 r R^2+3 l^4 r^2 R^2+$$
$$372\sqrt{3}\, l^3 r^3 R^2+1021 l^2 r^4 R^2-390\sqrt{3}\, l r^5 R^2-3 r^6 R^2-36 l^4 r R^3+48\sqrt{3}\, l^3 r^2 R^3+$$
$$\left.\left.24 l^2 r^3 R^3-560\sqrt{3}\, l r^4 R^3-36 r^5 R^3-144 l^2 r^2 R^4-96\sqrt{3}\, l r^3 R^4-144 r^4 R^4-192 r^3 R^5\right)\right\}$$

{X17, 1st NAPOLEON POINT, X24, PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE,

$$-\frac{1}{\left(3 l^2+10\sqrt{3}\, l r-3 r^2-12 r R\right)^2 \left(l^2-r^2-4 r R-5 R^2\right)^2}$$

$$3\left(4\sqrt{3}\, l^9 r+32 l^8 r^2-96 l^6 r^4-8\sqrt{3}\, l^5 r^5+96 l^4 r^6-32 l^2 r^8+4\sqrt{3}\, l r^9-64\sqrt{3}\, l^7 r^2 R-384 l^6 r^3 R+64\sqrt{3}\, l^5 r^4 R+768 l^4 r^5 R-64\sqrt{3}\, l^3 r^6 R-384 l^2 r^7 R+64\sqrt{3}\, l r^8 R-38\sqrt{3}\, l^7 r R^2-256 l^6 r^2 R^2+378\sqrt{3}\, l^5 r^3 R^2+2048 l^4 r^4 R^2-506\sqrt{3}\, l^3 r^5 R^2-1792 l^2 r^6 R^2+422\sqrt{3}\, l r^7 R^2+456\sqrt{3}\, l^5 r^2 R^3+2048 l^4 r^3 R^3-1456\sqrt{3}\, l^3 r^4 R^3-4096 l^2 r^5 R^3+1480\sqrt{3}\, l r^6 R^3+3 l^6 R^4+118\sqrt{3}\, l^5 r R^4+491 l^4 r^2 R^4-1860\sqrt{3}\, l^3 r^3 R^4-4587 l^2 r^4 R^4+2966\sqrt{3}\, l r^5 R^4-3 r^6 R^4-36 l^4 r R^5-944\sqrt{3}\, l^3 r^2 R^5-1928 l^2 r^3 R^5+3376\sqrt{3}\, l r^4 R^5-36 r^5 R^5-12 l^4 R^6-120\sqrt{3}\, l^3 r R^6+168 l^2 r^2 R^6+2008\sqrt{3}\, l r^3 R^6-156 r^4 R^6+96 l^2 r R^7+480\sqrt{3}\, l r^2 R^7-288 r^3 R^7-192 r^2 R^8\right)\}$$

{X17, 1st NAPOLEON POINT, X25, HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES,

$$-\frac{1}{\left(3 l^2+10\sqrt{3}\, l r-3 r^2-12 r R\right)^2 \left(l^2-r^2-4 r R-6 R^2\right)^2}$$

$$3\left(4\sqrt{3}\, l^9 r+32 l^8 r^2-96 l^6 r^4-8\sqrt{3}\, l^5 r^5+96 l^4 r^6-32 l^2 r^8+4\sqrt{3}\, l r^9-64\sqrt{3}\, l^7 r^2 R-384 l^6 r^3 R+64\sqrt{3}\, l^5 r^4 R+768 l^4 r^5 R-64\sqrt{3}\, l^3 r^6 R-384 l^2 r^7 R+64\sqrt{3}\, l r^8 R+3 l^8 R^2-20\sqrt{3}\, l^7 r R^2-160 l^6 r^2 R^2+332\sqrt{3}\, l^5 r^3 R^2+1850 l^4 r^4 R^2-460\sqrt{3}\, l^3 r^5 R^2-1696 l^2 r^6 R^2+404\sqrt{3}\, l r^7 R^2+3 r^8 R^2-48 l^6 r R^3+240\sqrt{3}\, l^5 r^2 R^3+1328 l^4 r^3 R^3-1056\sqrt{3}\, l^3 r^4 R^3-3376 l^2 r^5 R^3+1264\sqrt{3}\, l r^6 R^3+48 r^7 R^3-12 l^6 R^4+16\sqrt{3}\, l^5 r R^4+68 l^4 r^2 R^4-896\sqrt{3}\, l^3 r^3 R^4-2724 l^2 r^4 R^4+2000\sqrt{3}\, l r^5 R^4+300 r^6 R^4+144 l^4 r R^5-128\sqrt{3}\, l^3 r^2 R^5-32 l^2 r^3 R^5+1408\sqrt{3}\, l r^4 R^5+912 r^5 R^5+576 l^2 r^2 R^6+256\sqrt{3}\, l r^3 R^6+1344 r^4 R^6+768 r^3 R^7\right)\}$$

{X17, 1st NAPOLEON POINT, X26, CIRCUMCENTER OF THE TANGENTIAL TRIANGLE,

$$-\frac{1}{(l-r-2R)^2 (l+r+2R)^2 \left(3 l^2+10\sqrt{3}\, l r-3 r^2-12 r R\right)^2}$$

$$3\left(4\sqrt{3}\, l^9 r+32 l^8 r^2-96 l^6 r^4-8\sqrt{3}\, l^5 r^5+96 l^4 r^6-32 l^2 r^8+4\sqrt{3}\, l r^9-64\sqrt{3}\, l^7 r^2 R-384 l^6 r^3 R+64\sqrt{3}\, l^5 r^4 R+768 l^4 r^5 R-64\sqrt{3}\, l^3 r^6 R-384 l^2 r^7 R+64\sqrt{3}\, l r^8 R-30\sqrt{3}\, l^7 r R^2-192 l^6 r^2 R^2+386\sqrt{3}\, l^5 r^3 R^2+1920 l^4 r^4 R^2-514\sqrt{3}\, l^3 r^5 R^2-1728 l^2 r^6 R^2+414\sqrt{3}\, l r^7 R^2+360\sqrt{3}\, l^5 r^2 R^3+1536 l^4 r^3 R^3-1392\sqrt{3}\, l^3 r^4 R^3-3584 l^2 r^5 R^3+1384\sqrt{3}\, l r^6 R^3+60\sqrt{3}\, l^5 r R^4+168 l^4 r^2 R^4-1464\sqrt{3}\, l^3 r^3 R^4-3240 l^2 r^4 R^4+2524\sqrt{3}\, l r^5 R^4-480\sqrt{3}\, l^3 r^2 R^5-672 l^2 r^3 R^5+2400\sqrt{3}\, l r^4 R^5-3 l^4 R^6-36\sqrt{3}\, l^3 r R^6+258 l^2 r^2 R^6+996\sqrt{3}\, l r^3 R^6-3 r^4 R^6+24 l^2 r R^7+144\sqrt{3}\, l r^2 R^7-24 r^3 R^7-48 r^2 R^8\right)\}$$

{X17, 1st NAPOLEON POINT, X27, CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER,

$$-\left(\left(27\left(9 l^{10}+70\sqrt{3}\, l^9 r+383 l^8 r^2-80\sqrt{3}\, l^7 r^3-534 l^6 r^4-116\sqrt{3}\, l^5 r^5+126 l^4 r^6+32\sqrt{3}\, l^3 r^7+13 l^2 r^8-2\sqrt{3}\, l r^9+3 r^{10}-84 l^8 r R-544\sqrt{3}\, l^7 r^2 R-2112 l^6 r^3 R-224\sqrt{3}\, l^5 r^4 R+1080 l^4 r^5 R+288\sqrt{3}\, l^3 r^6 R+96 l^2 r^7 R-32\sqrt{3}\, l r^8 R+60 r^9 R-24 l^8 R^2-320\sqrt{3}\, l^7 r R^2-2176 l^6 r^2 R^2+592\sqrt{3}\, l^5 r^3 R^2+3296 l^4 r^4 R^2+960\sqrt{3}\, l^3 r^5 R^2+320 l^2 r^6 R^2-208\sqrt{3}\, l r^7 R^2+504 r^8 R^2+1344\sqrt{3}\, l^5 r^2 R^3+4352 l^4 r^3 R^3+1280\sqrt{3}\, l^3 r^4 R^3+896 l^2 r^5 R^3-704\sqrt{3}\, l r^6 R^3+2304 r^7 R^3-48 l^6 R^4+160\sqrt{3}\, l^5 r R^4+2384 l^4 r^2 R^4+256\sqrt{3}\, l^3 r^3 R^4+2352 l^2 r^4 R^4-1312\sqrt{3}\, l r^5 R^4+6192 r^6 R^4+576 l^4 r R^5-512\sqrt{3}\, l^3 r^2 R^5+3712 l^2 r^3 R^5-1280\sqrt{3}\, l r^4 R^5+9792 r^5 R^5+2304 l^2 r^2 R^6-512\sqrt{3}\, l r^3 R^6+8448 r^4 R^6+3072 r^3 R^7\right)\right)\Big/\left(\left(\sqrt{3}\, l-3 r-6 R\right)^2 \left(\sqrt{3}\, l+3 r+6 R\right)^2 \left(3 l^2+10\sqrt{3}\, l r-3 r^2-12 r R\right)^2\right)\right)\}$$

$$\left\{\text{X17, 1st NAPOLEON POINT, X28, CEVAPOINT OF X(19) AND X(25)},\right.$$

$$-\frac{1}{\left(3 l^2+10\sqrt{3}\, l r-3 r^2-12 r R\right)^2 \left(l^2-r^2-5 r R-6 R^2\right)^2}$$

$$3\left(4\sqrt{3}\, l^9 r+32 l^8 r^2-96 l^6 r^4-8\sqrt{3}\, l^5 r^5+96 l^4 r^6-32 l^2 r^8+4\sqrt{3}\, l r^9+3 l^8 r R-46\sqrt{3}\, l^7 r^2 R-\right.$$
$$288 l^6 r^3 R+18\sqrt{3}\, l^5 r^4 R+570 l^4 r^5 R-18\sqrt{3}\, l^3 r^6 R-288 l^2 r^7 R+46\sqrt{3}\, l r^8 R+3 r^9 R+$$
$$3 l^8 R^2-20\sqrt{3}\, l^7 r R^2-205 l^6 r^2 R^2+134\sqrt{3}\, l^5 r^3 R^2+1181 l^4 r^4 R^2-120\sqrt{3}\, l^3 r^5 R^2-$$
$$1027 l^2 r^6 R^2+206\sqrt{3}\, l r^7 R^2+48 r^8 R^2-60 l^6 r R^3+156\sqrt{3}\, l^5 r^2 R^3+920 l^4 r^3 R^3-$$
$$296\sqrt{3}\, l^3 r^4 R^3-1732 l^2 r^5 R^3+460\sqrt{3}\, l r^6 R^3+312 r^7 R^3-12 l^6 R^4+16\sqrt{3}\, l^5 r R^4+200 l^4 r^2 R^4-$$
$$296\sqrt{3}\, l^3 r^3 R^4-1116 l^2 r^4 R^4+536\sqrt{3}\, l r^5 R^4+1056 r^6 R^4+144 l^4 r R^5-80\sqrt{3}\, l^3 r^2 R^5+$$
$$\left.\left.352 l^2 r^3 R^5+304\sqrt{3}\, l r^4 R^5+1968 r^5 R^5+576 l^2 r^2 R^6+64\sqrt{3}\, l r^3 R^6+1920 r^4 R^6+768 r^3 R^7\right)\right\}$$

$$\left\{\text{X17, 1st NAPOLEON POINT, X29, CEVAPOINT OF INCENTER AND ORTHOCENTER},\right.$$

$$\frac{1}{\left(3 l^2+10\sqrt{3}\, l r-3 r^2-12 r R\right)^2 \left(3 l^2-r^2-8 r R-12 R^2\right)^2}$$

$$3\left(3 l^{10}+2\sqrt{3}\, l^9 r+13 l^8 r^2-32\sqrt{3}\, l^7 r^3+126 l^6 r^4+116\sqrt{3}\, l^5 r^5-534 l^4 r^6+80\sqrt{3}\, l^3 r^7+\right.$$
$$383 l^2 r^8-70\sqrt{3}\, l r^9+9 r^{10}-60 l^8 r R-32\sqrt{3}\, l^7 r^2 R+240 l^6 r^3 R+256\sqrt{3}\, l^5 r^4 R-$$
$$2664 l^4 r^5 R+480\sqrt{3}\, l^3 r^6 R+3312 l^2 r^7 R-832\sqrt{3}\, l r^8 R+132 r^9 R-24 l^8 R^2-16\sqrt{3}\, l^7 r R^2+$$
$$16 l^6 r^2 R^2+96\sqrt{3}\, l^5 r^3 R^2-4112 l^4 r^4 R^2+1104\sqrt{3}\, l^3 r^5 R^2+11440 l^2 r^6 R^2-3872\sqrt{3}\, l r^7 R^2+$$
$$744 r^8 R^2+384 l^6 r R^3+96\sqrt{3}\, l^5 r^2 R^3-1472 l^4 r^3 R^3+1344\sqrt{3}\, l^3 r^4 R^3+19264 l^2 r^5 R^3-$$
$$8992\sqrt{3}\, l r^6 R^3+1920 r^7 R^3+48 l^6 R^4+32\sqrt{3}\, l^5 r R^4+496 l^4 r^2 R^4+896\sqrt{3}\, l^3 r^3 R^4+$$
$$14544 l^2 r^4 R^4-10784\sqrt{3}\, l r^5 R^4+1680 r^6 R^4-576 l^4 r R^5+128\sqrt{3}\, l^3 r^2 R^5+1664 l^2 r^3 R^5-$$
$$\left.\left.6016\sqrt{3}\, l r^4 R^5-2112 r^5 R^5-2304 l^2 r^2 R^6-1024\sqrt{3}\, l r^3 R^6-5376 r^4 R^6-3072 r^3 R^7\right)\right\}$$

$$\left\{\text{X17, 1st NAPOLEON POINT, X30, EulerInfinityPoint}, \infty\right\}$$

$$\left\{\text{X17, 1st NAPOLEON POINT, X31, SecondPowerPoint},\right.$$

$$-\frac{1}{\left(3 l^2+10\sqrt{3}\, l r-3 r^2-12 r R\right)^2 \left(l^2-3 r^2-6 r R\right)^2}$$

$$12 r^2\left(-2 l^8-2\sqrt{3}\, l^7 r-46 l^6 r^2+2\sqrt{3}\, l^5 r^3+170 l^4 r^4+10\sqrt{3}\, l^3 r^5-42 l^2 r^6+6\sqrt{3}\, l r^7+32 l^6 r R+\right.$$
$$24\sqrt{3}\, l^5 r^2 R+336 l^4 r^3 R-32\sqrt{3}\, l^3 r^4 R-336 l^2 r^5 R+72\sqrt{3}\, l r^6 R-l^6 R^2-4\sqrt{3}\, l^5 r R^2+$$
$$89 l^4 r^2 R^2-64\sqrt{3}\, l^3 r^3 R^2-707 l^2 r^4 R^2+292\sqrt{3}\, l r^5 R^2+3 r^6 R^2+12 l^4 r R^3+80\sqrt{3}\, l^3 r^2 R^3-$$
$$\left.\left.224 l^2 r^3 R^3+416\sqrt{3}\, l r^4 R^3+36 r^5 R^3-48 l^2 r^2 R^4+64\sqrt{3}\, l r^3 R^4+144 r^4 R^4+192 r^3 R^5\right)\right\}$$

$$\left\{\text{X17, 1st NAPOLEON POINT, X32, ThirdPowerPoint},\right.$$

$$\left(12 l^2 r^2\left(2 l^{10}+4\sqrt{3}\, l^9 r+54 l^8 r^2-16\sqrt{3}\, l^7 r^3-460 l^6 r^4-40\sqrt{3}\, l^5 r^5+460 l^4 r^6-\right.\right.$$
$$16\sqrt{3}\, l^3 r^7-54 l^2 r^8+4\sqrt{3}\, l r^9-2 r^{10}-40 l^8 r R-64\sqrt{3}\, l^7 r^2 R-608 l^6 r^3 R+$$
$$192\sqrt{3}\, l^5 r^4 R+2448 l^4 r^5 R-192\sqrt{3}\, l^3 r^6 R-608 l^2 r^7 R+64\sqrt{3}\, l r^8 R-40 r^9 R+l^8 R^2-$$
$$4\sqrt{3}\, l^7 r R^2-20 l^6 r^2 R^2+252\sqrt{3}\, l^5 r^3 R^2+3222 l^4 r^4 R^2-636\sqrt{3}\, l^3 r^5 R^2-2452 l^2 r^6 R^2+$$
$$388\sqrt{3}\, l r^7 R^2-319 r^8 R^2-16 l^6 r R^3+48\sqrt{3}\, l^5 r^2 R^3+1456 l^4 r^3 R^3-544\sqrt{3}\, l^3 r^4 R^3-$$
$$4272 l^2 r^5 R^3+1072\sqrt{3}\, l r^6 R^3-1264 r^7 R^3+96 l^4 r^2 R^4-192\sqrt{3}\, l^3 r^3 R^4-3008 l^2 r^4 R^4+$$
$$\left.\left.1216\sqrt{3}\, l r^5 R^4-2464 r^6 R^4-256 l^2 r^3 R^5+256\sqrt{3}\, l r^4 R^5-1792 r^5 R^5+256 r^4 R^6\right)\right)\Big/$$
$$\left.\left.\left(3 l^2+10\sqrt{3}\, l r-3 r^2-12 r R\right)^2\left(l^2-2 l r-r^2-4 r R\right)^2\left(l^2+2 l r-r^2-4 r R\right)^2\right)\right\}$$

{X17, 1st NAPOLEON POINT, X33, PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES,

$$-\frac{1}{\left(3 l^2+10\sqrt{3}\, l r-3 r^2-12 r R\right)^2 \left(l^2-r^2-2 r R-4 R^2\right)^2}$$

$$12 r^2 \left(-2 l^8+2\sqrt{3}\, l^7 r-14 l^6 r^2-2\sqrt{3}\, l^5 r^3+34 l^4 r^4-2\sqrt{3}\, l^3 r^5-18 l^2 r^6+2\sqrt{3}\, l r^7+2\sqrt{3}\, l^7 R+30 l^6 r R-12\sqrt{3}\, l^5 r^2 R+160 l^4 r^3 R-18\sqrt{3}\, l^3 r^4 R-190 l^2 r^5 R+28\sqrt{3}\, l r^6 R+15 l^6 R^2-56\sqrt{3}\, l^5 r R^2+109 l^4 r^2 R^2-28\sqrt{3}\, l^3 r^3 R^2-687 l^2 r^4 R^2+140\sqrt{3}\, l r^5 R^2+3 r^6 R^2-16\sqrt{3}\, l^5 R^3-168 l^4 r R^3+208\sqrt{3}\, l^3 r^2 R^3-1016 l^2 r^3 R^3+256\sqrt{3}\, l r^4 R^3+48 r^5 R^3-12 l^4 R^4+384\sqrt{3}\, l^3 r R^4-560 l^2 r^2 R^4-112\sqrt{3}\, l r^3 R^4+300 r^4 R^4+32\sqrt{3}\, l^3 R^5-48 l^2 r R^5-896\sqrt{3}\, l r^2 R^5+912 r^3 R^5-64 l^2 R^6-768\sqrt{3}\, l r R^6+1344 r^2 R^6+768 r R^7\right)\}$$

{X17, 1st NAPOLEON POINT, X34, X(4)-BETH CONJUGATE OF X(4),

$$-\frac{1}{\left(3 l^2+10\sqrt{3}\, l r-3 r^2-12 r R\right)^2 \left(l^2-r^2-6 r R-4 R^2\right)^2}$$

$$12 r^2 \left(-2 l^8+2\sqrt{3}\, l^7 r-14 l^6 r^2-2\sqrt{3}\, l^5 r^3+34 l^4 r^4-2\sqrt{3}\, l^3 r^5-18 l^2 r^6+2\sqrt{3}\, l r^7+4\sqrt{3}\, l^7 R+72 l^6 r R-42\sqrt{3}\, l^5 r^2 R-38 l^4 r^3 R+44\sqrt{3}\, l^3 r^4 R-40 l^2 r^5 R-6\sqrt{3}\, l r^6 R+6 r^7 R+15 l^6 R^2-92\sqrt{3}\, l^5 r R^2-311 l^4 r^2 R^2+308\sqrt{3}\, l^3 r^3 R^2+129 l^2 r^4 R^2-192\sqrt{3}\, l r^5 R^2+87 r^6 R^2-32\sqrt{3}\, l^5 R^3-432 l^4 r R^3+688\sqrt{3}\, l^3 r^2 R^3+520 l^2 r^3 R^3-912\sqrt{3}\, l r^4 R^3+504 r^5 R^3-12 l^4 R^4+560\sqrt{3}\, l^3 r R^4+640 l^2 r^2 R^4-1920\sqrt{3}\, l r^3 R^4+1500 r^4 R^4+64\sqrt{3}\, l^3 R^5+336 l^2 r R^5-2016\sqrt{3}\, l r^2 R^5+2448 r^3 R^5-64 l^2 R^6-896\sqrt{3}\, l r R^6+2112 r^2 R^6+768 r R^7\right)\}$$

{X17, 1st NAPOLEON POINT, X35, {X(1),X(3)}-HARMONIC CONJUGATE OF X(36),

$$-\left(\left(12 r^2 \left(-\sqrt{3}\, l+r+4 R\right) \left(-4 l^4 r-12\sqrt{3}\, l^3 r^2-20 l^2 r^3+4\sqrt{3}\, l r^4-2 l^4 R-10\sqrt{3}\, l^3 r R-34 l^2 r^2 R+22\sqrt{3}\, l r^3 R+12 l^2 r R^2+28\sqrt{3}\, l r^2 R^2-l^2 R^3-8\sqrt{3}\, l r R^3+3 r^2 R^3+12 r R^4\right)\right)\Big/\left((2 r+R)^2 \left(3 l^2+10\sqrt{3}\, l r-3 r^2-12 r R\right)^2\right)\right)\}$$

{X17, 1st NAPOLEON POINT, X36, INVERSE-IN-CIRCUMCIRCLE OF INCENTER,

$$-\left(\left(12 r^2 \left(2\sqrt{3}\, l^5+16 l^4 r+4\sqrt{3}\, l^3 r^2-16 l^2 r^3+2\sqrt{3}\, l r^4+2 l^4 R-18\sqrt{3}\, l^3 r R-46 l^2 r^2 R+14\sqrt{3}\, l r^3 R-5\sqrt{3}\, l^3 R^2-39 l^2 r R^2+39\sqrt{3}\, l r^2 R^2-3 r^3 R^2+4 l^2 R^3+60\sqrt{3}\, l r R^3-24 r^2 R^3-48 r R^4\right)\right)\Big/\left((2 r-R) \left(3 l^2+10\sqrt{3}\, l r-3 r^2-12 r R\right)^2\right)\right)\}$$

{X17, 1st NAPOLEON POINT, X37, CrosspointOfIncenterAndCentroid,

$$\frac{1}{\left(3 l^2+10\sqrt{3}\, l r-3 r^2-12 r R\right)^2 \left(l^2+r^2+4 r R\right)^2}$$

$$12 l^2 r^2 \left(2 l^6-4\sqrt{3}\, l^5 r+2 l^4 r^2-8\sqrt{3}\, l^3 r^3-2 l^2 r^4-4\sqrt{3}\, l r^5-2 r^6-6\sqrt{3}\, l^5 R-40 l^4 r R+28\sqrt{3}\, l^3 r^2 R+112 l^2 r^3 R-46\sqrt{3}\, l r^4 R-24 r^5 R+13 l^4 R^2+120\sqrt{3}\, l^3 r R^2+134 l^2 r^2 R^2-176\sqrt{3}\, l r^3 R^2-95 r^4 R^2-184 l^2 r R^3-224\sqrt{3}\, l r^2 R^3-120 r^3 R^3+16 r^2 R^4\right)\}$$

{X17, 1st NAPOLEON POINT, X38, CROSSPOINT OF X(1) AND X(75),

$$\frac{1}{\left(3 l^2+10\sqrt{3}\, l r-3 r^2-12 r R\right)^2 \left(l^2+r^2-2 r R\right)^2}$$

$$12 r^2 \left(2 l^8-6\sqrt{3}\, l^7 r-18 l^6 r^2-10\sqrt{3}\, l^5 r^3-42 l^4 r^4-2\sqrt{3}\, l^3 r^5-22 l^2 r^6+2\sqrt{3}\, l r^7-6\sqrt{3}\, l^7 R-58 l^6 r R+130\sqrt{3}\, l^5 r^2 R+342 l^4 r^3 R-122\sqrt{3}\, l^3 r^4 R-310 l^2 r^5 R+62\sqrt{3}\, l r^6 R-6 r^7 R+13 l^6 R^2+176\sqrt{3}\, l^5 r R^2+583 l^4 r^2 R^2-992\sqrt{3}\, l^3 r^3 R^2-1385 l^2 r^4 R^2+560\sqrt{3}\, l r^5 R^2-99 r^6 R^2-268 l^4 r R^3-1328\sqrt{3}\, l^3 r^2 R^3-1600 l^2 r^3 R^3+2016\sqrt{3}\, l r^4 R^3-612 r^5 R^3+1264 l^2 r^2 R^4+2560\sqrt{3}\, l r^3 R^4-1680 r^4 R^4-1728 r^3 R^5\right)\}$$

{X17, 1st NAPOLEON POINT, X39, BrocardMidpoint,

$$\left(12 l^2 r^2 \left(l^2-2\sqrt{3}\, l r-r^2-4 r R\right)\left(2 l^8+8 l^6 r^2+12 l^4 r^4+8 l^2 r^6+2 r^8-32 l^6 r R-32 l^4 r^3 R+32 l^2 r^5 R+32 r^7 R+l^6 R^2+6\sqrt{3}\, l^5 r R^2-15 l^4 r^2 R^2-84\sqrt{3}\, l^3 r^3 R^2+79 l^2 r^4 R^2+6\sqrt{3}\, l r^5 R^2+191 r^6 R^2-12 l^4 r R^3-48\sqrt{3}\, l^3 r^2 R^3+328 l^2 r^3 R^3+48\sqrt{3}\, l r^4 R^3+500 r^5 R^3+48 l^2 r^2 R^4+96\sqrt{3}\, l r^3 R^4+464 r^4 R^4-64 r^3 R^5\right)\right)\Big/\left(\left(3 l^2+10\sqrt{3}\, l r-3 r^2-12 r R\right)^2\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)^2\right)\Big\}$$

{X17, 1st NAPOLEON POINT, X40, BEVAN POINT,

$$-\left(\left(12\left(2\sqrt{3}\, l^5 r+18 l^4 r^2+2\sqrt{3}\, l^3 r^3+2 l^2 r^4+3 l^4 r R+\sqrt{3}\, l^3 r^2 R-5 l^2 r^3 R+\sqrt{3}\, l r^4 R-3 l^4 R^2-22\sqrt{3}\, l^3 r R^2-118 l^2 r^2 R^2+26\sqrt{3}\, l r^3 R^2-3 r^4 R^2+24 l^2 r R^3+88\sqrt{3}\, l r^2 R^3-24 r^3 R^3-48 r^2 R^4\right)\right)\Big/\left(3 l^2+10\sqrt{3}\, l r-3 r^2-12 r R\right)^2\right)\Big\}$$

{X17, 1st NAPOLEON POINT, X41, X(6)-CEVA CONJUGATE OF X(31),

$$-\left(\left(12 l^2 r^2\left(6\sqrt{3}\, l^7 r+42 l^6 r^2+10\sqrt{3}\, l^5 r^3-170 l^4 r^4+2\sqrt{3}\, l^3 r^5+46 l^2 r^6-2\sqrt{3}\, l r^7+2 r^8+4\sqrt{3}\, l^7 R+16 l^6 r R-68\sqrt{3}\, l^5 r^2 R-680 l^4 r^3 R+28\sqrt{3}\, l^3 r^4 R+496 l^2 r^5 R-28\sqrt{3}\, l r^6 R+40 r^7 R-5 l^6 R^2-76\sqrt{3}\, l^5 r R^2-467 l^4 r^2 R^2+80\sqrt{3}\, l^3 r^3 R^2+1873 l^2 r^4 R^2-132\sqrt{3}\, l r^5 R^2+319 r^6 R^2-16\sqrt{3}\, l^5 R^3-72 l^4 r R^3+48\sqrt{3}\, l^3 r^2 R^3+2968 l^2 r^3 R^3-176\sqrt{3}\, l r^4 R^3+1264 r^5 R^3-16 l^4 R^4+192\sqrt{3}\, l^3 r R^4+1936 l^2 r^2 R^4+320\sqrt{3}\, l r^3 R^4+2464 r^4 R^4+256 l^2 r R^5+768\sqrt{3}\, l r^2 R^5+1792 r^3 R^5-256 r^2 R^6\right)\right)\Big/\left(\left(3 l^2+10\sqrt{3}\, l r-3 r^2-12 r R\right)^2\left(3 l^2 r-r^3+2 l^2 R-8 r^2 R-16 r R^2\right)^2\right)\right)\Big\}$$

{X17, 1st NAPOLEON POINT, X42, CROSSPOINT OF INCENTER AND SYMMEDIAN POINT,

$$-\frac{1}{\left(3 l^2+10\sqrt{3}\, l r-3 r^2-12 r R\right)^2\left(l^2+r^2-2 r R\right)^2}$$

$$12 r^2\left(-2 l^8+2\sqrt{3}\, l^7 r-22 l^6 r^2+6\sqrt{3}\, l^5 r^3-38 l^4 r^4+6\sqrt{3}\, l^3 r^5-18 l^2 r^6+2\sqrt{3}\, l r^7+16 l^6 r R-16\sqrt{3}\, l^5 r^2 R-64 l^4 r^3 R-80 l^2 r^5 R+16\sqrt{3}\, l r^6 R-l^6 R^2+4\sqrt{3}\, l^5 r R^2+289 l^4 r^2 R^2-88\sqrt{3}\, l^3 r^3 R^2+197 l^2 r^4 R^2+4\sqrt{3}\, l r^5 R^2+3 r^6 R^2+4 l^4 r R^3-64\sqrt{3}\, l^3 r^2 R^3+840 l^2 r^3 R^3-224\sqrt{3}\, l r^4 R^3+36 r^5 R^3-16 l^2 r^2 R^4-448\sqrt{3}\, l r^3 R^4+144 r^4 R^4+192 r^3 R^5\right)\Big\}$$

{X17, 1st NAPOLEON POINT, X43, X(6)-CEVA CONJUGATE OF X(1),

$$-\frac{1}{\left(3 l^2+10\sqrt{3}\, l r-3 r^2-12 r R\right)^2\left(l^2+r^2-8 r R\right)^2}$$

$$12 r^2\left(-2 l^8+2\sqrt{3}\, l^7 r-22 l^6 r^2+6\sqrt{3}\, l^5 r^3-38 l^4 r^4+6\sqrt{3}\, l^3 r^5-18 l^2 r^6+2\sqrt{3}\, l r^7-3\sqrt{3}\, l^7 R+13 l^6 r R-49\sqrt{3}\, l^5 r^2 R-41 l^4 r^3 R-25\sqrt{3}\, l^3 r^4 R-57 l^2 r^5 R+21\sqrt{3}\, l r^6 R-3 r^7 R-4 l^6 R^2+32\sqrt{3}\, l^5 r R^2+276 l^4 r^2 R^2-32\sqrt{3}\, l^3 r^3 R^2+372 l^2 r^4 R^2+64\sqrt{3}\, l r^5 R^2-36 r^6 R^2+64 l^4 r R^3+272\sqrt{3}\, l^3 r^2 R^3+944 l^2 r^3 R^3+16\sqrt{3}\, l r^4 R^3-144 r^5 R^3-64 l^2 r^2 R^4-128\sqrt{3}\, l r^3 R^4-192 r^4 R^4\right)\Big\}$$

{X17, 1st NAPOLEON POINT, X44, X(6)-LINE CONJUGATE OF X(1),

$$\frac{1}{\left(l^2-3 r^2-12 r R\right)^2\left(3 l^2+10\sqrt{3}\, l r-3 r^2-12 r R\right)^2}$$

$$12 l^2 r^2\left(2 l^6+4\sqrt{3}\, l^5 r+66 l^4 r^2-8\sqrt{3}\, l^3 r^3-210 l^2 r^4-12\sqrt{3}\, l r^5-18 r^6+6\sqrt{3}\, l^5 R+16 l^4 r R+44\sqrt{3}\, l^3 r^2 R-312 l^2 r^3 R-138\sqrt{3}\, l r^4 R-216 r^5 R+13 l^4 R^2-56\sqrt{3}\, l^3 r R^2-642 l^2 r^2 R^2-528\sqrt{3}\, l r^3 R^2-855 r^4 R^2-216 l^2 r R^3-672\sqrt{3}\, l r^2 R^3-1080 r^3 R^3+144 r^2 R^4\right)\Big\}$$

$$\left\{\text{X17, 1st NAPOLEON POINT, X45, X(9)-BETH CONJUGATE OF X(1)},\right.$$

$$\frac{1}{\left(3 l^2+10\sqrt{3}\, l\, r-3 r^2-12 r R\right)^2 \left(l^2+3 r^2+12 r R\right)^2}$$

$$12 l^2 r^2 \left(2 l^6-8\sqrt{3}\, l^5 r-30 l^4 r^2-32\sqrt{3}\, l^3 r^3-114 l^2 r^4-24\sqrt{3}\, l r^5-18 r^6-12\sqrt{3}\, l^5 R-\right.$$
$$32 l^4 r R+128\sqrt{3}\, l^3 r^2 R+360 l^2 r^3 R-276\sqrt{3}\, l r^4 R-216 r^5 R+49 l^4 R^2+304\sqrt{3}\, l^3 r R^2+$$
$$\left.\left.378 l^2 r^2 R^2-1056\sqrt{3}\, l r^3 R^2-855 r^4 R^2-744 l^2 r R^3-1344\sqrt{3}\, l r^2 R^3-1080 r^3 R^3+144 r^2 R^4\right)\right\}$$

$$\left\{\text{X17, 1st NAPOLEON POINT, X46, X(4)-CEVA CONJUGATE OF X(1)},\right.$$

$$\left(12 r^2 \left(-2\sqrt{3}\, l^5 r-18 l^4 r^2-2\sqrt{3}\, l^3 r^3-2 l^2 r^4+2\sqrt{3}\, l^5 R+13 l^4 r R+3\sqrt{3}\, l^3 r^2 R-\right.\right.$$
$$11 l^2 r^3 R+\sqrt{3}\, l r^4 R+2 l^4 R^2-16\sqrt{3}\, l^3 r R^2-22 l^2 r^2 R^2+8\sqrt{3}\, l r^3 R^2-5\sqrt{3}\, l^3 R^3-$$
$$\left.\left.39 l^2 r R^3+31\sqrt{3}\, l r^2 R^3-3 r^3 R^3+4 l^2 R^4+60\sqrt{3}\, l r R^4-24 r^2 R^4-48 r R^5\right)\right)\Big/$$
$$\left.\left((r-R)^2 \left(3 l^2+10\sqrt{3}\, l\, r-3 r^2-12 r R\right)^2\right)\right\}$$

$$\left\{\text{X17, 1st NAPOLEON POINT, X47, X(110)-BETH CONJUGATE OF X(34)},\right.$$

$$-\frac{1}{\left(3 l^2+10\sqrt{3}\, l\, r-3 r^2-12 r R\right)^2 \left(l^2-3 r^2-6 r R-2 R^2\right)^2}$$

$$12 r^2 \left(-2 l^8-2\sqrt{3}\, l^7 r-46 l^6 r^2+2\sqrt{3}\, l^5 r^3+170 l^4 r^4+10\sqrt{3}\, l^3 r^5-42 l^2 r^6+6\sqrt{3}\, l r^7+\right.$$
$$32 l^6 r R+24\sqrt{3}\, l^5 r^2 R+336 l^4 r^3 R-32\sqrt{3}\, l^3 r^4 R-336 l^2 r^5 R+72\sqrt{3}\, l r^6 R+7 l^6 R^2-$$
$$4\sqrt{3}\, l^5 r R^2+217 l^4 r^2 R^2-48\sqrt{3}\, l^3 r^3 R^2-843 l^2 r^4 R^2+308\sqrt{3}\, l r^5 R^2+3 r^6 R^2-$$
$$6\sqrt{3}\, l^5 R^3-134 l^4 r R^3+28\sqrt{3}\, l^3 r^2 R^3-780 l^2 r^3 R^3+530\sqrt{3}\, l r^4 R^3+42 r^5 R^3-$$
$$4 l^4 R^4+116\sqrt{3}\, l^3 r R^4-252 l^2 r^2 R^4+228\sqrt{3}\, l r^3 R^4+216 r^4 R^4+12\sqrt{3}\, l^3 R^5+$$
$$\left.\left.92 l^2 r R^5-196\sqrt{3}\, l r^2 R^5+492 r^3 R^5-16 l^2 R^6-208\sqrt{3}\, l r R^6+480 r^2 R^6+192 r R^7\right)\right\}$$

$$\left\{\text{X17, 1st NAPOLEON POINT, X48, CROSSPOINT OF X(1) AND X(63)},\right.$$

$$-\frac{1}{\left(3 l^2+10\sqrt{3}\, l\, r-3 r^2-12 r R\right)^2 \left(3 l^2-r^2-6 r R-8 R^2\right)^2}$$

$$12 l^2 \left(6\sqrt{3}\, l^7 r+42 l^6 r^2+10\sqrt{3}\, l^5 r^3-170 l^4 r^4+2\sqrt{3}\, l^3 r^5+46 l^2 r^6-2\sqrt{3}\, l r^7+2 r^8-\right.$$
$$72\sqrt{3}\, l^5 r^2 R-336 l^4 r^3 R+32\sqrt{3}\, l^3 r^4 R+336 l^2 r^5 R-24\sqrt{3}\, l r^6 R+32 r^7 R+3 l^6 R^2-$$
$$20\sqrt{3}\, l^5 r R^2-171 l^4 r^2 R^2+48\sqrt{3}\, l^3 r^3 R^2+889 l^2 r^4 R^2-92\sqrt{3}\, l r^5 R^2+199 r^6 R^2-$$
$$60 l^4 r R^3+104\sqrt{3}\, l^3 r^2 R^3+840 l^2 r^3 R^3-72\sqrt{3}\, l r^4 R^3+596 r^5 R^3-12 l^4 R^4-16\sqrt{3}\, l^3 r R^4+$$
$$\left.\left.112 l^2 r^2 R^4+256\sqrt{3}\, l r^3 R^4+844 r^4 R^4+192 l^2 r R^5+384\sqrt{3}\, l r^2 R^5+416 r^3 R^5-64 r^2 R^6\right)\right\}$$

$$\left\{\text{X17, 1st NAPOLEON POINT, X49, CENTER OF SINE-TRIPLE-ANGLE CIRCLE},\right.$$

$$-\frac{1}{\left(3 l^2+10\sqrt{3}\, l\, r-3 r^2-12 r R\right)^2 \left(2 l^2-2 r^2-8 r R-7 R^2\right)^2}$$

$$3 \left(8\sqrt{3}\, l^9 r+48 l^8 r^2-464 l^6 r^4-16\sqrt{3}\, l^5 r^5+464 l^4 r^6-48 l^2 r^8+8\sqrt{3}\, l r^9-128\sqrt{3}\, l^7 r^2 R-\right.$$
$$576 l^6 r^3 R+128\sqrt{3}\, l^5 r^4 R+2432 l^4 r^5 R-128\sqrt{3}\, l^3 r^6 R-576 l^2 r^7 R+128\sqrt{3}\, l r^8 R+$$
$$3 l^8 R^2-48\sqrt{3}\, l^7 r R^2-324 l^6 r^2 R^2+336\sqrt{3}\, l^5 r^3 R^2+4466 l^4 r^4 R^2-592\sqrt{3}\, l^3 r^5 R^2-$$
$$2628 l^2 r^6 R^2+816\sqrt{3}\, l r^7 R^2+3 r^8 R^2-48 l^6 r R^3+576\sqrt{3}\, l^5 r^2 R^3+2640 l^4 r^3 R^3-$$
$$896\sqrt{3}\, l^3 r^4 R^3-5712 l^2 r^5 R^3+2624\sqrt{3}\, l r^6 R^3+48 r^7 R^3-12 l^6 R^4+68\sqrt{3}\, l^5 r R^4+$$
$$452 l^4 r^2 R^4-536\sqrt{3}\, l^3 r^3 R^4-5732 l^2 r^4 R^4+4420\sqrt{3}\, l r^5 R^4+300 r^6 R^4+144 l^4 r R^5-$$
$$544\sqrt{3}\, l^3 r^2 R^5-1568 l^2 r^3 R^5+3616\sqrt{3}\, l r^4 R^5+912 r^5 R^5-3 l^4 R^6-48\sqrt{3}\, l^3 r R^6+$$
$$\left.\left.618 l^2 r^2 R^6+1136\sqrt{3}\, l r^3 R^6+1341 r^4 R^6+24 l^2 r R^7+192\sqrt{3}\, l r^2 R^7+744 r^3 R^7-48 r^2 R^8\right)\right\}$$

$$\Big\{\text{X17, 1st NAPOLEON POINT, X50, X(74)-CEVA CONJUGATE OF X(184)},$$
$$\Big(12 l^2 r^2 \Big(2 l^{10} + 4\sqrt{3}\, l^9 r + 54 l^8 r^2 - 16\sqrt{3}\, l^7 r^3 - 460 l^6 r^4 - 40\sqrt{3}\, l^5 r^5 + 460 l^4 r^6 - 16\sqrt{3}\, l^3 r^7 -$$
$$54 l^2 r^8 + 4\sqrt{3}\, l r^9 - 2 r^{10} - 40 l^8 r R - 64\sqrt{3}\, l^7 r^2 R - 608 l^6 r^3 R + 192\sqrt{3}\, l^5 r^4 R + 2448 l^4 r^5 R -$$
$$192\sqrt{3}\, l^3 r^6 R - 608 l^2 r^7 R + 64\sqrt{3}\, l r^8 R - 40 r^9 R - 11 l^8 R^2 - 16\sqrt{3}\, l^7 r R^2 - 284 l^6 r^2 R^2 +$$
$$240\sqrt{3}\, l^5 r^3 R^2 + 4254 l^4 r^4 R^2 - 624\sqrt{3}\, l^3 r^5 R^2 - 2716 l^2 r^6 R^2 + 400\sqrt{3}\, l r^7 R^2 - 331 r^8 R^2 +$$
$$176 l^6 r R^3 + 192\sqrt{3}\, l^5 r^2 R^3 + 3376 l^4 r^3 R^3 - 640\sqrt{3}\, l^3 r^4 R^3 - 6192 l^2 r^5 R^3 + 1216\sqrt{3}\, l r^6 R^3 -$$
$$1456 r^7 R^3 + 12 l^6 R^4 + 12\sqrt{3}\, l^5 r R^4 + 1212 l^4 r^2 R^4 - 72\sqrt{3}\, l^3 r^3 R^4 - 7964 l^2 r^4 R^4 +$$
$$1804\sqrt{3}\, l r^5 R^4 - 3628 r^6 R^4 - 144 l^4 r R^5 - 96\sqrt{3}\, l^3 r^2 R^5 - 6112 l^2 r^3 R^5 + 1120\sqrt{3}\, l r^4 R^5 -$$
$$5008 r^5 R^5 + 9 l^4 R^6 - 2142 l^2 r^2 R^6 + 192\sqrt{3}\, l r^3 R^6 - 3383 r^4 R^6 - 72 l^2 r R^7 - 696 r^3 R^7 + 144 r^2 R^8\Big)\Big) \Big/$$
$$\Big(\Big(3 l^2 + 10\sqrt{3}\, l r - 3 r^2 - 12 r R\Big)^2 \Big(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 3 l^2 R^2 + 19 r^2 R^2 + 12 r R^3\Big)^2\Big)\Big\}$$

$$\Big\{\text{X17, 1st NAPOLEON POINT, X51, CENTROID OF ORTHIC TRIANGLE},$$
$$-\frac{1}{12 R^2 \Big(3 l^2 + 10\sqrt{3}\, l r - 3 r^2 - 12 r R\Big)^2}\Big(3 l^8 - 4\sqrt{3}\, l^7 r - 92 l^6 r^2 + 316\sqrt{3}\, l^5 r^3 + 1218 l^4 r^4 -$$
$$316\sqrt{3}\, l^3 r^5 - 92 l^2 r^6 + 4\sqrt{3}\, l r^7 + 3 r^8 - 48 l^6 r R + 48\sqrt{3}\, l^5 r^2 R + 784 l^4 r^3 R -$$
$$1312\sqrt{3}\, l^3 r^4 R - 784 l^2 r^5 R + 48\sqrt{3}\, l r^6 R + 48 r^7 R - 12 l^6 R^2 + 16\sqrt{3}\, l^5 r R^2 + 20 l^4 r^2 R^2 -$$
$$1568\sqrt{3}\, l^3 r^3 R^2 - 1588 l^2 r^4 R^2 + 208\sqrt{3}\, l r^5 R^2 + 300 r^6 R^2 + 144 l^4 r R^3 - 128\sqrt{3}\, l^3 r^2 R^3 +$$
$$160 l^2 r^3 R^3 + 384\sqrt{3}\, l r^4 R^3 + 912 r^5 R^3 + 576 l^2 r^2 R^4 + 256\sqrt{3}\, l r^3 R^4 + 1344 r^4 R^4 + 768 r^3 R^5\Big)\Big\}$$

$$\Big\{\text{X17, 1st NAPOLEON POINT, X52,}$$
$$\text{ORTHOCENTER OF ORTHIC TRIANGLE, } \frac{1}{4 R^2 \Big(3 l^2 + 10\sqrt{3}\, l r - 3 r^2 - 12 r R\Big)^2}$$
$$3\Big(3 l^8 + 28\sqrt{3}\, l^7 r + 132 l^6 r^2 - 292\sqrt{3}\, l^5 r^3 - 1150 l^4 r^4 + 292\sqrt{3}\, l^3 r^5 + 132 l^2 r^6 - 28\sqrt{3}\, l r^7 + 3 r^8 -$$
$$48 l^6 r R - 336\sqrt{3}\, l^5 r^2 R - 1008 l^4 r^3 R + 1504\sqrt{3}\, l^3 r^4 R + 1008 l^2 r^5 R - 336\sqrt{3}\, l r^6 R + 48 r^7 R -$$
$$12 l^6 R^2 - 104\sqrt{3}\, l^5 r R^2 - 140 l^4 r^2 R^2 + 1968\sqrt{3}\, l^3 r^3 R^2 + 2156 l^2 r^4 R^2 - 1448\sqrt{3}\, l r^5 R^2 + 300 r^6 R^2 +$$
$$144 l^4 r R^3 + 832\sqrt{3}\, l^3 r^2 R^3 + 800 l^2 r^3 R^3 - 2624\sqrt{3}\, l r^4 R^3 + 912 r^5 R^3 + 12 l^4 R^4 + 96\sqrt{3}\, l^3 r R^4 -$$
$$168 l^2 r^2 R^4 - 1760\sqrt{3}\, l r^3 R^4 + 1356 r^4 R^4 - 96 l^2 r R^5 - 384\sqrt{3}\, l r^2 R^5 + 864 r^3 R^5 + 192 r^2 R^6\Big)\Big\}$$

$$\Big\{\text{X17, 1st NAPOLEON POINT, X53, SYMMEDIAN POINT OF ORTHIC TRIANGLE},$$
$$\Big(12 l^2 r^2 \Big(2 l^{10} - 2\sqrt{3}\, l^9 r - 18 l^8 r^2 - 8\sqrt{3}\, l^7 r^3 + 44 l^6 r^4 + 116\sqrt{3}\, l^5 r^5 - 44 l^4 r^6 -$$
$$8\sqrt{3}\, l^3 r^7 + 18 l^2 r^8 - 2\sqrt{3}\, l r^9 - 2 r^{10} - 40 l^8 r R + 32\sqrt{3}\, l^7 r^2 R + 256 l^6 r^3 R +$$
$$32\sqrt{3}\, l^5 r^4 R - 432 l^4 r^5 R - 32\sqrt{3}\, l^3 r^6 R + 256 l^2 r^7 R - 32\sqrt{3}\, l r^8 R - 40 r^9 R -$$
$$15 l^8 R^2 + 16\sqrt{3}\, l^7 r R^2 + 24 l^6 r^2 R^2 - 416\sqrt{3}\, l^5 r^3 R^2 - 530 l^4 r^4 R^2 + 352\sqrt{3}\, l^3 r^5 R^2 +$$
$$1048 l^2 r^6 R^2 - 208\sqrt{3}\, l r^7 R^2 - 335 r^8 R^2 + 240 l^6 r R^3 - 192\sqrt{3}\, l^5 r^2 R^3 + 848 l^4 r^3 R^3 +$$
$$1600\sqrt{3}\, l^3 r^4 R^3 + 944 l^2 r^5 R^3 - 704\sqrt{3}\, l r^6 R^3 - 1520 r^7 R^3 + 24 l^6 R^4 - 32\sqrt{3}\, l^5 r R^4 +$$
$$1240 l^4 r^2 R^4 + 1792\sqrt{3}\, l^3 r^3 R^4 - 2936 l^2 r^4 R^4 - 1312\sqrt{3}\, l r^5 R^4 - 4024 r^6 R^4 -$$
$$288 l^4 r R^5 + 256\sqrt{3}\, l^3 r^2 R^5 - 6592 l^2 r^3 R^5 - 1280\sqrt{3}\, l r^4 R^5 - 6176 r^5 R^5 + 16 l^4 R^6 -$$
$$3680 l^2 r^2 R^6 - 512\sqrt{3}\, l r^3 R^6 - 4976 r^4 R^6 - 128 l^2 r R^7 - 1408 r^3 R^7 + 256 r^2 R^8\Big)\Big) \Big/$$
$$\Big(\Big(3 l^2 + 10\sqrt{3}\, l r - 3 r^2 - 12 r R\Big)^2 \Big(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 4 l^2 R^2 + 20 r^2 R^2 + 16 r R^3\Big)^2\Big)\Big\}$$

$$\left\{\text{X17, 1st NAPOLEON POINT, X54, KosnitaPoint},\right.$$

$$-\frac{1}{\left(3\,l^2+10\sqrt{3}\,l\,r-3\,r^2-12\,r\,R\right)^2\left(2\,l^2-2\,r^2-8\,r\,R-5\,R^2\right)^2}$$

$$3\left(8\sqrt{3}\,l^9\,r+48\,l^8\,r^2-464\,l^6\,r^4-16\sqrt{3}\,l^5\,r^5+464\,l^4\,r^6-48\,l^2\,r^8+8\sqrt{3}\,l\,r^9-128\sqrt{3}\,l^7\,r^2\,R-\right.$$
$$576\,l^6\,r^3\,R+128\sqrt{3}\,l^5\,r^4\,R+2432\,l^4\,r^5\,R-128\sqrt{3}\,l^3\,r^6\,R-576\,l^2\,r^7\,R+128\sqrt{3}\,l\,r^8\,R-$$
$$56\sqrt{3}\,l^7\,r\,R^2-368\,l^6\,r^2\,R^2+456\sqrt{3}\,l^5\,r^3\,R^2+4640\,l^4\,r^4\,R^2-712\sqrt{3}\,l^3\,r^5\,R^2-2672\,l^2\,r^6\,R^2+$$
$$824\sqrt{3}\,l\,r^7\,R^2+672\sqrt{3}\,l^5\,r^2\,R^3+2944\,l^4\,r^3\,R^3-1472\sqrt{3}\,l^3\,r^4\,R^3-6016\,l^2\,r^5\,R^3+2720\sqrt{3}\,l\,r^6\,R^3+$$
$$3\,l^6\,R^4+126\sqrt{3}\,l^5\,r\,R^4+611\,l^4\,r^2\,R^4-1540\sqrt{3}\,l^3\,r^3\,R^4-6499\,l^2\,r^4\,R^4+4862\sqrt{3}\,l\,r^5\,R^4-3\,r^6\,R^4-$$
$$\left.36\,l^4\,r\,R^5-1008\sqrt{3}\,l^3\,r^2\,R^5-2408\,l^2\,r^3\,R^5+4592\sqrt{3}\,l\,r^4\,R^5-36\,r^5\,R^5-12\,l^4\,R^6-120\sqrt{3}\,l^3\,r\,R^6+\right.$$
$$\left.\left.168\,l^2\,r^2\,R^6+2136\sqrt{3}\,l\,r^3\,R^6-156\,r^4\,R^6+96\,l^2\,r\,R^7+480\sqrt{3}\,l\,r^2\,R^7-288\,r^3\,R^7-192\,r^2\,R^8\right)\right\}$$

$$\left\{\text{X17, 1st NAPOLEON POINT, X55,}\right.$$

$$\text{INSIMILICENTER(CIRCUMCIRCLE, INCIRCLE)},\ -\frac{1}{(r+R)^2\left(3\,l^2+10\sqrt{3}\,l\,r-3\,r^2-12\,r\,R\right)^2}$$

$$3\,r^2\left(4\sqrt{3}\,l^5\,r+32\,l^4\,r^2+8\sqrt{3}\,l^3\,r^3-32\,l^2\,r^4+4\sqrt{3}\,l\,r^5+4\sqrt{3}\,l^5\,R+24\,l^4\,r\,R-16\sqrt{3}\,l^3\,r^2\,R-\right.$$
$$232\,l^2\,r^3\,R+44\sqrt{3}\,l\,r^4\,R-17\,l^4\,R^2-76\sqrt{3}\,l^3\,r\,R^2-350\,l^2\,r^2\,R^2+148\sqrt{3}\,l\,r^3\,R^2+3\,r^4\,R^2+$$
$$\left.8\sqrt{3}\,l^3\,R^3+188\,l^2\,r\,R^3+96\sqrt{3}\,l\,r^2\,R^3+36\,r^3\,R^3-16\,l^2\,R^4-192\sqrt{3}\,l\,r\,R^4+144\,r^2\,R^4+192\,r\,R^5\right)\Big\}$$

$$\left\{\text{X17, 1st NAPOLEON POINT, X56,}\right.$$

$$\text{EXSIMILICENTER(CIRCUMCIRCLE, INCIRCLE)},\ -\frac{1}{(r-R)^2\left(3\,l^2+10\sqrt{3}\,l\,r-3\,r^2-12\,r\,R\right)^2}$$

$$3\,r^2\left(4\sqrt{3}\,l^5\,r+32\,l^4\,r^2+8\sqrt{3}\,l^3\,r^3-32\,l^2\,r^4+4\sqrt{3}\,l\,r^5-4\sqrt{3}\,l^5\,R-24\,l^4\,r\,R-48\sqrt{3}\,l^3\,r^2\,R-\right.$$
$$24\,l^2\,r^3\,R+20\sqrt{3}\,l\,r^4\,R-5\,l^4\,R^2+44\sqrt{3}\,l^3\,r\,R^2+2\,l^2\,r^2\,R^2+44\sqrt{3}\,l\,r^3\,R^2-9\,r^4\,R^2+$$
$$\left.16\sqrt{3}\,l^3\,R^3+140\,l^2\,r\,R^3+56\sqrt{3}\,l\,r^2\,R^3-60\,r^3\,R^3-16\,l^2\,R^4-224\sqrt{3}\,l\,r\,R^4-48\,r^2\,R^4+192\,r\,R^5\right)\Big\}$$

$$\left\{\text{X17, 1st NAPOLEON POINT, X57,}\right.$$

$$\text{ISOGONAL CONJUGATE OF X(9)},\ -\frac{1}{(r-2\,R)^2\left(3\,l^2+10\sqrt{3}\,l\,r-3\,r^2-12\,r\,R\right)^2}$$

$$12\,r^2\left(2\sqrt{3}\,l^5\,r+18\,l^4\,r^2+2\sqrt{3}\,l^3\,r^3+2\,l^2\,r^4-4\sqrt{3}\,l^5\,R-29\,l^4\,r\,R-7\sqrt{3}\,l^3\,r^2\,R+27\,l^2\,r^3\,R-\right.$$
$$3\sqrt{3}\,l\,r^4\,R-5\,l^4\,R^2+58\sqrt{3}\,l^3\,r\,R^2+126\,l^2\,r^2\,R^2-38\sqrt{3}\,l\,r^3\,R^2+3\,r^4\,R^2+16\sqrt{3}\,l^3\,R^3+$$
$$\left.124\,l^2\,r\,R^3-160\sqrt{3}\,l\,r^2\,R^3+36\,r^3\,R^3-16\,l^2\,R^4-224\sqrt{3}\,l\,r\,R^4+144\,r^2\,R^4+192\,r\,R^5\right)\Big\}$$

$$\left\{\text{X17, 1st NAPOLEON POINT, X58, ISOGONAL CONJUGATE OF X(10)},\right.$$

$$-\frac{1}{\left(3\,l^2+10\sqrt{3}\,l\,r-3\,r^2-12\,r\,R\right)^2\left(l^2-3\,r^2-4\,r\,R\right)^2}$$

$$12\,r^2\left(-2\,l^8-2\sqrt{3}\,l^7\,r-46\,l^6\,r^2+2\sqrt{3}\,l^5\,r^3+170\,l^4\,r^4+10\sqrt{3}\,l^3\,r^5-42\,l^2\,r^6+6\sqrt{3}\,l\,r^7+\right.$$
$$24\,l^6\,r\,R+24\sqrt{3}\,l^5\,r^2\,R+208\,l^4\,r^3\,R-48\sqrt{3}\,l^3\,r^4\,R-200\,l^2\,r^5\,R+56\sqrt{3}\,l\,r^6\,R-l^6\,R^2+$$
$$2\sqrt{3}\,l^5\,r\,R^2+227\,l^4\,r^2\,R^2-4\sqrt{3}\,l^3\,r^3\,R^2-223\,l^2\,r^4\,R^2+186\sqrt{3}\,l\,r^5\,R^2-3\,r^6\,R^2+8\,l^4\,r\,R^3-$$
$$\left.16\sqrt{3}\,l^3\,r^2\,R^3+48\,l^2\,r^3\,R^3+240\sqrt{3}\,l\,r^4\,R^3-24\,r^5\,R^3-16\,l^2\,r^2\,R^4+32\sqrt{3}\,l\,r^3\,R^4-48\,r^4\,R^4\right)\Big\}$$

$$\Big\{\text{X17, 1st NAPOLEON POINT, X59, ISOGONAL CONJUGATE OF X(11)},$$
$$-\Big(\Big(3r^2\Big(4\sqrt{3}\,l^9+24l^8r-232l^6r^3-8\sqrt{3}\,l^5r^4+232l^4r^5-24l^2r^7+4\sqrt{3}\,lr^8+$$
$$8l^8R-76\sqrt{3}\,l^7rR-240l^6r^2R+52\sqrt{3}\,l^5r^3R+1416l^4r^4R-52\sqrt{3}\,l^3r^5R-$$
$$384l^2r^6R+76\sqrt{3}\,lr^7R-42\sqrt{3}\,l^7R^2-388l^6rR^2+366\sqrt{3}\,l^5r^2R^2+2936l^4r^3R^2-$$
$$422\sqrt{3}\,l^3r^4R^2-2308l^2r^5R^2+578\sqrt{3}\,lr^6R^2-45l^6R^3+702\sqrt{3}\,l^5rR^3+1619l^4r^2R^3-$$
$$1300\sqrt{3}\,l^3r^3R^3-6211l^2r^4R^3+2222\sqrt{3}\,lr^5R^3-3r^6R^3+168\sqrt{3}\,l^5R^4+1532l^4rR^4-$$
$$2392\sqrt{3}\,l^3r^2R^4-6560l^2r^3R^4+4512\sqrt{3}\,lr^4R^4-60r^5R^4-2528\sqrt{3}\,l^3rR^5-$$
$$1120l^2r^2R^5+4928\sqrt{3}\,lr^3R^5-480r^4R^5-256\sqrt{3}\,l^3R^6-1024l^2rR^6+$$
$$4096\sqrt{3}\,lr^2R^6-1920r^3R^6+256l^2R^7+3584\sqrt{3}\,lrR^7-3840r^2R^7-3072rR^8\Big)\Big)\Big/$$
$$\Big((2r-R)\Big(3l^2+10\sqrt{3}\,lr-3r^2-12rR\Big)^2\Big(l^2-r^2-5rR-4R^2\Big)^2\Big)\Big)\Big\}$$

$$\Big\{\text{X17, 1st NAPOLEON POINT, X60, ISOGONAL CONJUGATE OF X(12)},$$
$$-\Big(\Big(3r^2\Big(8\sqrt{3}\,l^9r+48l^8r^2-464l^6r^4-16\sqrt{3}\,l^5r^5+464l^4r^6-48l^2r^8+8\sqrt{3}\,lr^9+$$
$$4\sqrt{3}\,l^9R+8l^8rR-104\sqrt{3}\,l^7r^2R-904l^6r^3R+144\sqrt{3}\,l^5r^4R+2264l^4r^5R-$$
$$152\sqrt{3}\,l^3r^6R-408l^2r^7R+108\sqrt{3}\,lr^8R-8l^8R^2-88\sqrt{3}\,l^7rR^2-376l^6r^2R^2+$$
$$280\sqrt{3}\,l^5r^3R^2+4520l^4r^4R^2-584\sqrt{3}\,l^3r^5R^2-1256l^2r^6R^2+584\sqrt{3}\,lr^7R^2-$$
$$10\sqrt{3}\,l^7R^3+22l^6rR^3+274\sqrt{3}\,l^5r^2R^3+4050l^4r^3R^3-798\sqrt{3}\,l^3r^4R^3-1726l^2r^5R^3+$$
$$1606\sqrt{3}\,lr^6R^3+6r^7R^3-7l^6R^4+122\sqrt{3}\,l^5rR^4+1265l^4r^2R^4-140\sqrt{3}\,l^3r^3R^4-$$
$$1097l^2r^4R^4+2362\sqrt{3}\,lr^5R^4+63r^6R^4+92l^4rR^5+248\sqrt{3}\,l^3r^2R^5-352l^2r^3R^5+$$
$$1816\sqrt{3}\,lr^4R^5+228r^5R^5-16l^2r^2R^6+576\sqrt{3}\,lr^3R^6+336r^4R^6+192r^3R^7\Big)\Big)\Big/$$
$$\Big(\Big(3l^2+10\sqrt{3}\,lr-3r^2-12rR\Big)^2\Big(2l^2r-2r^3+l^2R-7r^2R-7rR^2\Big)^2\Big)\Big)\Big\}$$

$$\Big\{\text{X17, 1st NAPOLEON POINT, X61, ISOGONAL CONJUGATE OF X(17)},-\Big(\Big(144l^2r^2\Big(l^2-2\sqrt{3}\,lr-r^2-4rR\Big)$$
$$\Big(4\sqrt{3}\,l^3r+8l^2r^2-4\sqrt{3}\,lr^3-16\sqrt{3}\,lr^2R-3l^2R^2-18\sqrt{3}\,lrR^2+3r^2R^2+12rR^3\Big)\Big)\Big/$$
$$\Big(\Big(3l^2+2\sqrt{3}\,lr-3r^2-12rR\Big)^2\Big(3l^2+10\sqrt{3}\,lr-3r^2-12rR\Big)^2\Big)\Big)\Big\}$$

$$\Big\{\text{X17, 1st NAPOLEON POINT, X62, ISOGONAL CONJUGATE OF X(18)},$$
$$\Big(144l^2r^2\Big(3l^6+2\sqrt{3}\,l^5r+19l^4r^2-28\sqrt{3}\,l^3r^3-19l^2r^4+2\sqrt{3}\,lr^5-3r^6-36l^4rR-16\sqrt{3}\,l^3r^2R-$$
$$40l^2r^3R+16\sqrt{3}\,lr^4R-36r^5R-144l^2r^2R^2+32\sqrt{3}\,lr^3R^2-144r^4R^2-192r^3R^3\Big)\Big)\Big/$$
$$\Big(\Big(3l^2-2\sqrt{3}\,lr-3r^2-12rR\Big)^2\Big(3l^2+10\sqrt{3}\,lr-3r^2-12rR\Big)^2\Big)\Big\}$$

$$\Big\{\text{X17, 1st NAPOLEON POINT, X63,}$$
$$\text{ISOGONAL CONJUGATE OF X(19)},-\frac{1}{(r+R)^2\Big(3l^2+10\sqrt{3}\,lr-3r^2-12rR\Big)^2}$$
$$3\Big(8\sqrt{3}\,l^5r^3+72l^4r^4+8\sqrt{3}\,l^3r^5+8l^2r^6-6l^6rR-26\sqrt{3}\,l^5r^2R-64l^4r^3R+$$
$$32\sqrt{3}\,l^3r^4R+102l^2r^5R-6\sqrt{3}\,lr^6R-3l^6R^2-14\sqrt{3}\,l^5rR^2+33l^4r^2R^2+$$
$$264\sqrt{3}\,l^3r^3R^2+423l^2r^4R^2-74\sqrt{3}\,lr^5R^2+3r^6R^2+60l^4rR^3+240\sqrt{3}\,l^3r^2R^3+$$
$$448l^2r^3R^3-304\sqrt{3}\,lr^4R^3+36r^5R^3-208l^2r^2R^4-416\sqrt{3}\,lr^3R^4+144r^4R^4+192r^3R^5\Big)\Big\}$$

$$\Big\{\text{X17, 1st NAPOLEON POINT, X64, ISOGONAL CONJUGATE OF X(20)},$$

$$-\frac{1}{(l-r-2R)^2\,(l+r+2R)^2\,\left(3l^2+10\sqrt{3}\,l\,r-3r^2-12\,r\,R\right)^2}$$

$$12\Big(2\sqrt{3}\,l^9 r+18\,l^8 r^2-14\,l^6 r^4-4\sqrt{3}\,l^5 r^5+14\,l^4 r^6-18\,l^2 r^8+2\sqrt{3}\,l\,r^9-32\sqrt{3}\,l^7 r^2 R-$$
$$216\,l^6 r^3 R+32\sqrt{3}\,l^5 r^4 R+272\,l^4 r^5 R-32\sqrt{3}\,l^3 r^6 R-216\,l^2 r^7 R+32\sqrt{3}\,l\,r^8 R-9\,l^8 R^2-$$
$$80\sqrt{3}\,l^7 r R^2-437\,l^6 r^2 R^2+384\sqrt{3}\,l^5 r^3 R^2+1496\,l^4 r^4 R^2-448\sqrt{3}\,l^3 r^5 R^2-1301\,l^2 r^6 R^2+$$
$$272\sqrt{3}\,l\,r^7 R^2-9\,r^8 R^2+144\,l^6 r R^3+960\sqrt{3}\,l^5 r^2 R^3+3352\,l^4 r^3 R^3-2240\sqrt{3}\,l^3 r^4 R^3-$$
$$4504\,l^2 r^5 R^3+1472\sqrt{3}\,l\,r^6 R^3-144\,r^7 R^3+84\,l^6 R^4+624\sqrt{3}\,l^5 r R^4+2204\,l^4 r^2 R^4-$$
$$5104\sqrt{3}\,l^3 r^3 R^4-8908\,l^2 r^4 R^4+4976\sqrt{3}\,l\,r^5 R^4-948\,r^6 R^4-1008\,l^4 r R^5-4992\sqrt{3}\,l^3 r^2 R^5-$$
$$8960\,l^2 r^3 R^5+10\,112\sqrt{3}\,l\,r^4 R^5-3312\,r^5 R^5-192\,l^4 R^6-1344\sqrt{3}\,l^3 r R^6-2496\,l^2 r^2 R^6+$$
$$11\,328\sqrt{3}\,l\,r^3 R^6-6528\,r^4 R^6+1536\,l^2 r R^7+5376\sqrt{3}\,l\,r^2 R^7-6912\,r^3 R^7-3072\,r^2 R^8\Big)\Big\}$$

$$\Big\{\text{X17, 1st NAPOLEON POINT, X65, ORTHOCENTER OF THE INTOUCH TRIANGLE},$$

$$-\Big(\Big(3r^2\Big(-4\sqrt{3}\,l^5-34\,l^4 r+40\sqrt{3}\,l^3 r^2+148\,l^2 r^3-36\sqrt{3}\,l\,r^4+6\,r^5-5\,l^4 R+72\sqrt{3}\,l^3 r R+$$
$$242\,l^2 r^2 R-224\sqrt{3}\,l\,r^3 R+63\,r^4 R+16\sqrt{3}\,l^3 R^2+108\,l^2 r R^2-376\sqrt{3}\,l\,r^2 R^2+228\,r^3 R^2-$$
$$16\,l^2 R^3-224\sqrt{3}\,l\,r R^3+336\,r^2 R^3+192\,r R^4\Big)\Big)\Big/\Big(R\left(3l^2+10\sqrt{3}\,l\,r-3r^2-12\,r\,R\right)^2\Big)\Big)\Big\}$$

$$\Big\{\text{X17, 1st NAPOLEON POINT, X66, ISOGONAL CONJUGATE OF X(22)},$$

$$-\Big(\Big(3\Big(2\sqrt{3}\,l^{13} r-12\,l^{12} r^2-100\sqrt{3}\,l^{11} r^3-180\,l^{10} r^4+382\sqrt{3}\,l^9 r^5+600\,l^8 r^6-568\sqrt{3}\,l^7 r^7-$$
$$600\,l^6 r^8+382\sqrt{3}\,l^5 r^9+180\,l^4 r^{10}-100\sqrt{3}\,l^3 r^{11}+12\,l^2 r^{12}+2\sqrt{3}\,l\,r^{13}-48\sqrt{3}\,l^{11} r^2 R+$$
$$240\,l^{10} r^3 R+1648\sqrt{3}\,l^9 r^4 R+1920\,l^8 r^5 R-4704\sqrt{3}\,l^7 r^6 R-4320\,l^6 r^7 R+4704\sqrt{3}\,l^5 r^8 R+$$
$$1920\,l^4 r^9 R-1648\sqrt{3}\,l^3 r^{10} R+240\,l^2 r^{11} R+48\sqrt{3}\,l\,r^{12} R+3\,l^{12} R^2+4\sqrt{3}\,l^{11} r R^2+$$
$$246\,l^{10} r^2 R^2+1276\sqrt{3}\,l^9 r^3 R^2-1091\,l^8 r^4 R^2-12\,776\sqrt{3}\,l^7 r^5 R^2-7916\,l^6 r^6 R^2+$$
$$22\,184\sqrt{3}\,l^5 r^7 R^2+6589\,l^4 r^8 R^2-11\,164\sqrt{3}\,l^3 r^9 R^2+2166\,l^2 r^{10} R^2+476\sqrt{3}\,l\,r^{11} R^2+$$
$$3\,r^{12} R^2-72\,l^{10} r R^3-80\sqrt{3}\,l^9 r^2 R^3-3864\,l^8 r^3 R^3-12\,032\sqrt{3}\,l^7 r^4 R^3+4912\,l^6 r^5 R^3+$$
$$49\,312\sqrt{3}\,l^5 r^6 R^3+2768\,l^4 r^7 R^3-39\,680\sqrt{3}\,l^3 r^8 R^3+11\,544\,l^2 r^9 R^3+2480\sqrt{3}\,l\,r^{10} R^3+$$
$$72\,r^{11} R^3-12\,l^{10} R^4-48\sqrt{3}\,l^9 r R^4-404\,l^8 r^2 R^4-1824\sqrt{3}\,l^7 r^3 R^4+20\,776\,l^6 r^4 R^4+$$
$$49\,952\sqrt{3}\,l^5 r^5 R^4-30\,600\,l^4 r^6 R^4-77\,600\sqrt{3}\,l^3 r^7 R^4+38\,948\,l^2 r^8 R^4+6992\sqrt{3}\,l\,r^9 R^4+$$
$$732\,r^{10} R^4+240\,l^8 r R^5+768\sqrt{3}\,l^7 r^2 R^5+9408\,l^6 r^3 R^5+16\,384\sqrt{3}\,l^5 r^4 R^5-62\,560\,l^4 r^5 R^5-$$
$$78\,336\sqrt{3}\,l^3 r^6 R^5+81\,600\,l^2 r^7 R^5+8960\sqrt{3}\,l\,r^8 R^5+4080\,r^9 R^5-688\,l^6 r^2 R^6-$$
$$1728\sqrt{3}\,l^5 r^3 R^6-37\,216\,l^4 r^4 R^6-31\,040\sqrt{3}\,l^3 r^5 R^6+96\,848\,l^2 r^6 R^6-1536\sqrt{3}\,l\,r^7 R^6+$$
$$13\,440\,r^8 R^6-2176\,l^4 r^3 R^7+768\sqrt{3}\,l^3 r^4 R^7+51\,840\,l^2 r^5 R^7-16\,384\sqrt{3}\,l\,r^6 R^7+$$
$$26\,112\,r^7 R^7+4352\,l^2 r^4 R^8-12\,288\sqrt{3}\,l\,r^5 R^8+27\,648\,r^6 R^8+12\,288\,r^5 R^9\Big)\Big)\Big/$$
$$\Big((l-r-2R)^2\,(l+r+2R)^2\left(3l^2+10\sqrt{3}\,l\,r-3r^2-12\,r\,R\right)^2\left(l^2-r^2-4\,r\,R\right)^2\Big)\Big)\Big\}$$

$$\Big\{\text{X17, 1st NAPOLEON POINT, X67, ISOGONAL CONJUGATE OF X(23)},$$

$$\Big(9\left(l^2+2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)\Big(l^{10}+2\sqrt{3}\,l^9 r+15\,l^8 r^2+32\sqrt{3}\,l^7 r^3-50\,l^6 r^4-68\sqrt{3}\,l^5 r^5+$$
$$50\,l^4 r^6+32\sqrt{3}\,l^3 r^7-15\,l^2 r^8+2\sqrt{3}\,l\,r^9-r^{10}-20\,l^8 r R-32\sqrt{3}\,l^7 r^2 R-160\,l^6 r^3 R-$$
$$224\sqrt{3}\,l^5 r^4 R+360\,l^4 r^5 R+224\sqrt{3}\,l^3 r^6 R-160\,l^2 r^7 R+32\sqrt{3}\,l\,r^8 R-20\,r^9 R-4\,l^8 R^2-$$
$$8\sqrt{3}\,l^7 r R^2-16\,l^6 r^2 R^2-104\sqrt{3}\,l^5 r^3 R^2+840\,l^4 r^4 R^2+552\sqrt{3}\,l^3 r^5 R^2-656\,l^2 r^6 R^2+$$
$$200\sqrt{3}\,l\,r^7 R^2-164\,r^8 R^2+64\,l^6 r R^3+96\sqrt{3}\,l^5 r^2 R^3+704\,l^4 r^3 R^3+576\sqrt{3}\,l^3 r^4 R^3-$$
$$1344\,l^2 r^5 R^3+608\sqrt{3}\,l\,r^6 R^3-704\,r^7 R^3+36\,l^4 r^2 R^4+216\sqrt{3}\,l^3 r^3 R^4-1444\,l^2 r^4 R^4+$$
$$896\sqrt{3}\,l\,r^5 R^4-1664\,r^6 R^4-656\,l^2 r^3 R^5+512\sqrt{3}\,l\,r^4 R^5-2048\,r^5 R^5-1024\,r^4 R^6\Big)\Big)\Big/$$
$$\Big(\left(3l^2+10\sqrt{3}\,l\,r-3r^2-12\,r\,R\right)^2\left(l^2-r^2-4\,r\,R\right)^2\left(2l^2-2r^2-8\,r\,R-9R^2\right)\Big)\Big\}$$

$$\left\{\text{X17, 1st NAPOLEON POINT, X68, PRASOLOV POINT,}\right.$$

$$-\frac{1}{(l-r-2R)^2\,(l+r+2R)^2\left(3l^2+10\sqrt{3}\,l\,r-3r^2-12\,r\,R\right)^2}$$

$$3\left(2\sqrt{3}\,l^9 r-12\,l^8 r^2-96\sqrt{3}\,l^7 r^3-204\,l^6 r^4+188\sqrt{3}\,l^5 r^5+204\,l^4 r^6-96\sqrt{3}\,l^3 r^7+12\,l^2 r^8+\right.$$
$$2\sqrt{3}\,l\,r^9-32\sqrt{3}\,l^7 r^2 R+144\,l^6 r^3 R+800\sqrt{3}\,l^5 r^4 R+672\,l^4 r^5 R-800\sqrt{3}\,l^3 r^6 R+$$
$$144\,l^2 r^7 R+32\sqrt{3}\,l\,r^8 R-3\,l^8 R^2-28\sqrt{3}\,l^7 r R^2+132\,l^6 r^2 R^2+964\sqrt{3}\,l^5 r^3 R^2+526\,l^4 r^4 R^2-$$
$$2564\sqrt{3}\,l^3 r^5 R^2+708\,l^2 r^6 R^2+220\sqrt{3}\,l\,r^7 R^2-3\,r^8 R^2+48\,l^6 r R^3+336\sqrt{3}\,l^5 r^2 R^3-$$
$$1104\,l^4 r^3 R^3-3936\sqrt{3}\,l^3 r^4 R^3+1872\,l^2 r^5 R^3+848\sqrt{3}\,l\,r^6 R^3-48\,r^7 R^3+12\,l^6 R^4+72\sqrt{3}\,l^5 r R^4-$$
$$772\,l^4 r^2 R^4-2512\sqrt{3}\,l^3 r^3 R^4+2980\,l^2 r^4 R^4+1928\sqrt{3}\,l\,r^5 R^4-300\,r^6 R^4-144\,l^4 r R^5-$$
$$576\sqrt{3}\,l^3 r^2 R^5+2848\,l^2 r^3 R^5+2368\sqrt{3}\,l\,r^4 R^5-912\,r^5 R^5-12\,l^4 R^6-48\sqrt{3}\,l^3 r R^6+$$
$$\left.\left.1032\,l^2 r^2 R^6+1200\sqrt{3}\,l\,r^3 R^6-1356\,r^4 R^6+96\,l^2 r R^7+192\sqrt{3}\,l\,r^2 R^7-864\,r^3 R^7-192\,r^2 R^8\right)\right\}$$

$$\left\{\text{X17, 1st NAPOLEON POINT, X69, SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE,}\right.$$

$$\frac{1}{\left(3l^2+10\sqrt{3}\,l\,r-3r^2-12\,r\,R\right)^2\left(l^2-r^2-4\,r\,R\right)^2}$$

$$3\left(l^2+2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)\left(3l^8+8\sqrt{3}\,l^7 r+24\,l^6 r^2+56\sqrt{3}\,l^5 r^3-54\,l^4 r^4-56\sqrt{3}\,l^3 r^5+\right.$$
$$24\,l^2 r^6-8\sqrt{3}\,l\,r^7+3\,r^8-48\,l^6 r R-96\sqrt{3}\,l^5 r^2 R-144\,l^4 r^3 R-128\sqrt{3}\,l^3 r^4 R+$$
$$144\,l^2 r^5 R-96\sqrt{3}\,l\,r^6 R+48\,r^7 R-32\,l^4 r^2 R^2-416\sqrt{3}\,l^3 r^3 R^2+320\,l^2 r^4 R^2-$$
$$\left.\left.384\sqrt{3}\,l\,r^5 R^2+288\,r^6 R^2+512\,l^2 r^3 R^3-512\sqrt{3}\,l\,r^4 R^3+768\,r^5 R^3+768\,r^4 R^4\right)\right\}$$

$$\left\{\text{X17, 1st NAPOLEON POINT, X70, ISOGONAL CONJUGATE OF X(26),}\right.$$

$$-\left(\left(3\left(2\sqrt{3}\,l^{13} r-12\,l^{12} r^2-100\sqrt{3}\,l^{11} r^3-180\,l^{10} r^4+382\sqrt{3}\,l^9 r^5+600\,l^8 r^6-568\sqrt{3}\,l^7 r^7-\right.\right.\right.$$
$$600\,l^6 r^8+382\sqrt{3}\,l^5 r^9+180\,l^4 r^{10}-100\sqrt{3}\,l^3 r^{11}+12\,l^2 r^{12}+2\sqrt{3}\,l\,r^{13}-48\sqrt{3}\,l^{11} r^2 R+$$
$$240\,l^{10} r^3 R+1648\sqrt{3}\,l^9 r^4 R+1920\,l^8 r^5 R-4704\sqrt{3}\,l^7 r^6 R-4320\,l^6 r^7 R+4704\sqrt{3}\,l^5 r^8 R+$$
$$1920\,l^4 r^9 R-1648\sqrt{3}\,l^3 r^{10} R+240\,l^2 r^{11} R+48\sqrt{3}\,l\,r^{12} R-20\sqrt{3}\,l^{11} r R^2+240\,l^{10} r^2 R^2+$$
$$1684\sqrt{3}\,l^9 r^3 R^2-320\,l^8 r^4 R^2-13\,880\sqrt{3}\,l^7 r^5 R^2-9440\,l^6 r^6 R^2+23\,288\sqrt{3}\,l^5 r^7 R^2+$$
$$7360\,l^4 r^8 R^2-11\,572\sqrt{3}\,l^3 r^9 R^2+2160\,l^2 r^{10} R^2+500\sqrt{3}\,l\,r^{11} R^2+400\sqrt{3}\,l^9 r^2 R^3-$$
$$3840\,l^8 r^3 R^3-17\,408\sqrt{3}\,l^7 r^4 R^3-1280\,l^6 r^5 R^3+59\,104\sqrt{3}\,l^5 r^6 R^3+8960\,l^4 r^7 R^3-$$
$$45\,056\sqrt{3}\,l^3 r^8 R^3+11\,520\,l^2 r^9 R^3+2960\sqrt{3}\,l\,r^{10} R^3+3\,l^{10} R^4+80\sqrt{3}\,l^9 r R^4-1551\,l^8 r^2 R^4-$$
$$8480\sqrt{3}\,l^7 r^3 R^4+18\,478\,l^6 r^4 R^4+80\,672\sqrt{3}\,l^5 r^5 R^4-15\,918\,l^4 r^6 R^4-105\,760\sqrt{3}\,l^3 r^7 R^4+$$
$$39\,951\,l^2 r^8 R^4+10\,960\sqrt{3}\,l\,r^9 R^4-3\,r^{10} R^4-60\,l^8 r R^5-1280\sqrt{3}\,l^7 r^2 R^5+18\,672\,l^6 r^3 R^5+$$
$$56\,320\sqrt{3}\,l^5 r^4 R^5-61\,864\,l^4 r^5 R^5-152\,064\sqrt{3}\,l^3 r^6 R^5+92\,400\,l^2 r^7 R^5+26\,368\sqrt{3}\,l\,r^8 R^5-$$
$$60\,r^9 R^5-18\,l^8 R^6-156\sqrt{3}\,l^7 r R^6+4648\,l^6 r^2 R^6+17\,188\sqrt{3}\,l^5 r^3 R^6-72\,428\,l^4 r^4 R^6-$$
$$129\,828\sqrt{3}\,l^3 r^5 R^6+140\,776\,l^2 r^6 R^6+41\,628\sqrt{3}\,l\,r^7 R^6-498\,r^8 R^6+288\,l^6 r R^7+$$
$$1872\sqrt{3}\,l^5 r^2 R^7-35\,552\,l^4 r^3 R^7-60\,384\sqrt{3}\,l^3 r^4 R^7+135\,776\,l^2 r^5 R^7+42\,832\sqrt{3}\,l\,r^6 R^7-$$
$$2208\,r^7 R^7+27\,l^6 R^8+118\sqrt{3}\,l^5 r R^8-6373\,l^4 r^2 R^8-12\,820\sqrt{3}\,l^3 r^3 R^8+77\,477\,l^2 r^4 R^8+$$
$$28\,086\sqrt{3}\,l\,r^5 R^8-5595\,r^6 R^8-324\,l^4 r R^9-944\sqrt{3}\,l^3 r^2 R^9+23\,512\,l^2 r^3 R^9+10\,928\sqrt{3}\,l\,r^4 R^9-$$
$$8004\,r^5 R^9-12\,l^4 R^{10}-24\sqrt{3}\,l^3 r R^{10}+3048\,l^2 r^2 R^{10}+1912\sqrt{3}\,l\,r^3 R^{10}-5916\,r^4 R^{10}+$$
$$\left.\left.96\,l^2 r R^{11}+96\sqrt{3}\,l\,r^2 R^{11}-1824\,r^3 R^{11}-192\,r^2 R^{12}\right)\right)\Big/\left(\left(3l^2+10\sqrt{3}\,l\,r-3r^2-12\,r\,R\right)^2\right.$$
$$\left.\left.\left(l^4-2\,l^2 r^2+r^4-8\,l^2 r R+8\,r^3 R-6\,l^2 R^2+22\,r^2 R^2+24\,r R^3+7\,R^4\right)^2\right)\right)\right\}$$

$$\left\{\text{X17, 1st NAPOLEON POINT, X71, ISOGONAL CONJUGATE OF X(27)},\right.$$

$$-\frac{1}{\left(3 l^2+10\sqrt{3}\, l r-3 r^2-12 r R\right)^2 \left(l^2+r^2+6 r R+8 R^2\right)^2}$$

$$12 l^2 \left(2\sqrt{3}\, l^7 r+18 l^6 r^2+6\sqrt{3}\, l^5 r^3+38 l^4 r^4+6\sqrt{3}\, l^3 r^5+22 l^2 r^6+2\sqrt{3}\, l r^7+2 r^8+\right.$$
$$64 l^4 r^3 R+32\sqrt{3}\, l^3 r^4 R+96 l^2 r^5 R+32\sqrt{3}\, l r^6 R+32 r^7 R-9 l^6 R^2-40\sqrt{3}\, l^5 r R^2-$$
$$91 l^4 r^2 R^2+128\sqrt{3}\, l^3 r^3 R^2+85 l^2 r^4 R^2+200\sqrt{3}\, l r^5 R^2+199 r^6 R^2+84 l^4 r R^3+$$
$$192\sqrt{3}\, l^3 r^2 R^3-120 l^2 r^3 R^3+608\sqrt{3}\, l r^4 R^3+596 r^5 R^3-12 l^4 R^4-48\sqrt{3}\, l^3 r R^4-$$
$$\left.\left.80 l^2 r^2 R^4+896\sqrt{3}\, l r^3 R^4+844 r^4 R^4+192 l^2 r R^5+512\sqrt{3}\, l r^2 R^5+416 r^3 R^5-64 r^2 R^6\right)\right\}$$

$$\left\{\text{X17, 1st NAPOLEON POINT, X72, ISOGONAL CONJUGATE OF X(28)},\ -\frac{1}{R\left(3 l^2+10\sqrt{3}\, l r-3 r^2-12 r R\right)^2}\right.$$

$$3\left(-3 l^6 r-16\sqrt{3}\, l^5 r^2-51 l^4 r^3+40\sqrt{3}\, l^3 r^4+131 l^2 r^5-24\sqrt{3}\, l r^6+3 r^7-3 l^6 R-14\sqrt{3}\, l^5 r R-\right.$$
$$6 l^4 r^2 R+196\sqrt{3}\, l^3 r^3 R+553 l^2 r^4 R-198\sqrt{3}\, l r^5 R+36 r^6 R+60 l^4 r R^2+244\sqrt{3}\, l^3 r^2 R^2+$$
$$\left.\left.496 l^2 r^3 R^2-516\sqrt{3}\, l r^4 R^2+156 r^5 R^2-208 l^2 r^2 R^3-432\sqrt{3}\, l r^3 R^3+288 r^4 R^3+192 r^3 R^4\right)\right\}$$

$$\left\{\text{X17, 1st NAPOLEON POINT, X73, CROSSPOINT OF INCENTER AND CIRCUMCENTER},\right.$$

$$-\frac{1}{\left(3 l^2+10\sqrt{3}\, l r-3 r^2-12 r R\right)^2 \left(l^2+r^2-2 r R-4 R^2\right)^2}$$

$$12 r^2 \left(-2 l^8+2\sqrt{3}\, l^7 r-22 l^6 r^2+6\sqrt{3}\, l^5 r^3-38 l^4 r^4+6\sqrt{3}\, l^3 r^5-18 l^2 r^6+2\sqrt{3}\, l r^7+\right.$$
$$4\sqrt{3}\, l^7 R+56 l^6 r R-12\sqrt{3}\, l^5 r^2 R+16 l^4 r^3 R-4\sqrt{3}\, l^3 r^4 R-40 l^2 r^5 R+12\sqrt{3}\, l r^6 R+$$
$$15 l^6 R^2-64\sqrt{3}\, l^5 r R^2+101 l^4 r^2 R^2-112\sqrt{3}\, l^3 r^3 R^2-19 l^2 r^4 R^2+48\sqrt{3}\, l r^5 R^2-$$
$$9 r^6 R^2-32\sqrt{3}\, l^5 R^3-400 l^4 r R^3+48\sqrt{3}\, l^3 r^2 R^3-208 l^2 r^3 R^3+240\sqrt{3}\, l r^4 R^3-$$
$$96 r^5 R^3-12 l^4 R^4+448\sqrt{3}\, l^3 r R^4-160 l^2 r^2 R^4+432\sqrt{3}\, l r^3 R^4-324 r^4 R^4+64\sqrt{3}\, l^3 R^5+$$
$$\left.\left.464 l^2 r R^5-288\sqrt{3}\, l r^2 R^5-240 r^3 R^5-64 l^2 R^6-896\sqrt{3}\, l r R^6+576 r^2 R^6+768 r R^7\right)\right\}$$

$$\left\{\text{X17, 1st NAPOLEON POINT, X74, ISOGONAL CONJUGATE OF EULER INFINITY POINT},\right.$$

$$-\frac{1}{\left(3 l^2+10\sqrt{3}\, l r-3 r^2-12 r R\right)^2 \left(2 l^2-2 r^2-8 r R-9 R^2\right)}$$

$$3\left(12\sqrt{3}\, l^7 r+104 l^6 r^2+12\sqrt{3}\, l^5 r^3-48 l^4 r^4-12\sqrt{3}\, l^3 r^5+104 l^2 r^6-12\sqrt{3}\, l r^7-144\sqrt{3}\, l^5 r^2 R-\right.$$
$$832 l^4 r^3 R+96\sqrt{3}\, l^3 r^4 R+832 l^2 r^5 R-144\sqrt{3}\, l r^6 R-27 l^6 R^2-246\sqrt{3}\, l^5 r R^2-1307 l^4 r^2 R^2+$$
$$1044\sqrt{3}\, l^3 r^3 R^2+2971 l^2 r^4 R^2-822\sqrt{3}\, l r^5 R^2+27 r^6 R^2+324 l^4 r R^3+1968\sqrt{3}\, l^3 r^2 R^3+$$
$$4904 l^2 r^3 R^3-2736\sqrt{3}\, l r^4 R^3+324 r^5 R^3+108 l^4 R^4+792\sqrt{3}\, l^3 r R^4+2520 l^2 r^2 R^4-$$
$$\left.\left.4728\sqrt{3}\, l r^3 R^4+1404 r^4 R^4-864 l^2 r R^5-3168\sqrt{3}\, l r^2 R^5+2592 r^3 R^5+1728 r^2 R^6\right)\right\}$$

$$\left\{\text{X17, 1st NAPOLEON POINT, X75, ISOTOMIC CONJUGATE OF INCENTER},\right.$$

$$\frac{1}{\left(3 l^2+10\sqrt{3}\, l r-3 r^2-12 r R\right)^2 \left(l^2+r^2+4 r R\right)^2}$$

$$3\left(3 l^{10}+14\sqrt{3}\, l^9 r+57 l^8 r^2+24\sqrt{3}\, l^7 r^3+54 l^6 r^4+20\sqrt{3}\, l^5 r^5-54 l^4 r^6+24\sqrt{3}\, l^3 r^7-57 l^2 r^8+\right.$$
$$14\sqrt{3}\, l r^9-3 r^{10}-60 l^8 r R-272\sqrt{3}\, l^7 r^2 R-832 l^6 r^3 R+448\sqrt{3}\, l^5 r^4 R+1528 l^4 r^5 R-$$
$$336\sqrt{3}\, l^3 r^6 R-576 l^2 r^7 R+224\sqrt{3}\, l r^8 R-60 r^9 R+256 l^6 r^2 R^2+992\sqrt{3}\, l^5 r^3 R^2+1920 l^4 r^4 R^2-$$
$$2400\sqrt{3}\, l^3 r^5 R^2-1760 l^2 r^6 R^2+1344\sqrt{3}\, l r^7 R^2-480 r^8 R^2-1024 l^4 r^3 R^3-2688\sqrt{3}\, l^3 r^4 R^3-$$
$$\left.\left.1024 l^2 r^5 R^3+3584\sqrt{3}\, l r^6 R^3-1920 r^7 R^3+1792 l^2 r^4 R^4+3584\sqrt{3}\, l r^5 R^4-3840 r^6 R^4-3072 r^5 R^5\right)\right\}$$

$$\Big\{\text{X17, 1st NAPOLEON POINT, X76, 3rd BROCARD POINT,}$$
$$\Big(3\left(l^2+2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)^2\left(3\,l^{10}+2\sqrt{3}\,l^9\,r+9\,l^8\,r^2+8\sqrt{3}\,l^7\,r^3+6\,l^6\,r^4+12\sqrt{3}\,l^5\,r^5-6\,l^4\,r^6+8\sqrt{3}\,l^3\,r^7-9\,l^2\,r^8+2\sqrt{3}\,l\,r^9-3\,r^{10}-60\,l^8\,r\,R-32\sqrt{3}\,l^7\,r^2\,R-48\,l^6\,r^3\,R-32\sqrt{3}\,l^5\,r^4\,R+24\,l^4\,r^5\,R+32\sqrt{3}\,l^3\,r^6\,R-48\,l^2\,r^7\,R+32\sqrt{3}\,l\,r^8\,R-60\,r^9\,R+160\,l^6\,r^2\,R^2+736\,l^4\,r^4\,R^2+64\sqrt{3}\,l^3\,r^5\,R^2-32\,l^2\,r^6\,R^2+192\sqrt{3}\,l\,r^7\,R^2-480\,r^8\,R^2+640\,l^4\,r^3\,R^3+256\sqrt{3}\,l^3\,r^4\,R^3-256\,l^2\,r^5\,R^3+512\sqrt{3}\,l\,r^6\,R^3-1920\,r^7\,R^3-1280\,l^2\,r^4\,R^4+512\sqrt{3}\,l\,r^5\,R^4-3840\,r^6\,R^4-3072\,r^5\,R^5\right)\Big)\Big/\Big(\left(3\,l^2+10\sqrt{3}\,l\,r-3\,r^2-12\,r\,R\right)^2\left(l^4+2\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R+16\,r^2\,R^2\right)^2\Big)\Big\}$$

$$\Big\{\text{X17, 1st NAPOLEON POINT, X77, ISOGONAL CONJUGATE OF X(33),}$$
$$-\frac{1}{\left(3\,l^2+10\sqrt{3}\,l\,r-3\,r^2-12\,r\,R\right)^2\left(l^2-r\,R-4\,R^2\right)^2}$$
$$3\,r^2\left(-8\,l^8+8\sqrt{3}\,l^7\,r-72\,l^6\,r^2+8\sqrt{3}\,l^5\,r^3+22\sqrt{3}\,l^7\,R+262\,l^6\,r\,R-48\sqrt{3}\,l^5\,r^2\,R-64\,l^4\,r^3\,R+26\sqrt{3}\,l^3\,r^4\,R-6\,l^2\,r^5\,R+45\,l^6\,R^2-418\sqrt{3}\,l^5\,r\,R^2-327\,l^4\,r^2\,R^2+256\sqrt{3}\,l^3\,r^3\,R^2-33\,l^2\,r^4\,R^2-14\sqrt{3}\,l\,r^5\,R^2+3\,r^6\,R^2-152\sqrt{3}\,l^5\,R^3-1484\,l^4\,r\,R^3+1176\sqrt{3}\,l^3\,r^2\,R^3+96\,l^2\,r^3\,R^3-224\sqrt{3}\,l\,r^4\,R^3+60\,r^5\,R^3+2336\sqrt{3}\,l^3\,r\,R^4+800\,l^2\,r^2\,R^4-1344\sqrt{3}\,l\,r^3\,R^4+480\,r^4\,R^4+256\sqrt{3}\,l^3\,R^5+1024\,l^2\,r\,R^5-3584\sqrt{3}\,l\,r^2\,R^5+1920\,r^3\,R^5-256\,l^2\,R^6-3584\sqrt{3}\,l\,r\,R^6+3840\,r^2\,R^6+3072\,r\,R^7\right)\Big\}$$

$$\Big\{\text{X17, 1st NAPOLEON POINT, X78,}$$
$$\text{ISOGONAL CONJUGATE OF X(34)},\ -\frac{1}{(r-R)^2\left(3\,l^2+10\sqrt{3}\,l\,r-3\,r^2-12\,r\,R\right)^2}$$
$$3\left(-8\,l^4\,r^4+8\sqrt{3}\,l^3\,r^5-72\,l^2\,r^6+8\sqrt{3}\,l\,r^7-6\sqrt{3}\,l^5\,r^2\,R-38\,l^4\,r^3\,R-16\sqrt{3}\,l^3\,r^4\,R-96\,l^2\,r^5\,R+22\sqrt{3}\,l\,r^6\,R+6\,r^7\,R-3\,l^6\,R^2-14\sqrt{3}\,l^5\,r\,R^2-51\,l^4\,r^2\,R^2+80\sqrt{3}\,l^3\,r^3\,R^2+479\,l^2\,r^4\,R^2-146\sqrt{3}\,l\,r^5\,R^2+63\,r^6\,R^2+60\,l^4\,r\,R^3+248\sqrt{3}\,l^3\,r^2\,R^3+592\,l^2\,r^3\,R^3-536\sqrt{3}\,l\,r^4\,R^3+228\,r^5\,R^3-208\,l^2\,r^2\,R^4-448\sqrt{3}\,l\,r^3\,R^4+336\,r^4\,R^4+192\,r^3\,R^5\right)\Big\}$$

$$\Big\{\text{X17, 1st NAPOLEON POINT, X79,}$$
$$\text{ISOGONAL CONJUGATE OF X(35)},\ -\frac{1}{(2\,r+3\,R)^2\left(3\,l^2+10\sqrt{3}\,l\,r-3\,r^2-12\,r\,R\right)^2}$$
$$12\,r^2\left(6\,l^6+34\sqrt{3}\,l^5\,r+108\,l^4\,r^2-60\sqrt{3}\,l^3\,r^3+6\,l^2\,r^4+2\sqrt{3}\,l\,r^5-9\sqrt{3}\,l^5\,R-189\,l^4\,r\,R-178\sqrt{3}\,l^3\,r^2\,R+86\,l^2\,r^3\,R+7\sqrt{3}\,l\,r^4\,R+3\,r^5\,R-36\,l^4\,R^2+18\sqrt{3}\,l^3\,r\,R^2+398\,l^2\,r^2\,R^2-70\sqrt{3}\,l\,r^3\,R^2+42\,r^4\,R^2+45\sqrt{3}\,l^3\,R^3+591\,l^2\,r\,R^3-399\sqrt{3}\,l\,r^2\,R^3+219\,r^3\,R^3-36\,l^2\,R^4-540\sqrt{3}\,l\,r\,R^4+504\,r^2\,R^4+432\,r\,R^5\right)\Big\}$$

$$\Big\{\text{X17, 1st NAPOLEON POINT, X80, REFLECTION OF INCENTER IN FEUERBACH POINT,}$$
$$\Big(12\,r^2\left(-\sqrt{3}\,l^5+3\,l^4\,r+30\sqrt{3}\,l^3\,r^2+54\,l^2\,r^3-17\sqrt{3}\,l\,r^4+3\,r^5-2\,l^4\,R+16\sqrt{3}\,l^3\,r\,R+12\,l^2\,r^2\,R-96\sqrt{3}\,l\,r^3\,R+30\,r^4\,R+\sqrt{3}\,l^3\,R^2-25\,l^2\,r\,R^2-123\sqrt{3}\,l\,r^2\,R^2+99\,r^3\,R^2-4\,l^2\,R^3-44\sqrt{3}\,l\,r\,R^3+120\,r^2\,R^3+48\,r\,R^4\right)\Big)\Big/\Big((2\,r-R)\left(3\,l^2+10\sqrt{3}\,l\,r-3\,r^2-12\,r\,R\right)^2\Big)\Big\}$$

$$\Big\{\text{X17, 1st NAPOLEON POINT, X81, CEVAPOINT OF INCENTER AND SYMMEDIAN POINT,}$$
$$-\frac{1}{\left(3\,l^2+10\sqrt{3}\,l\,r-3\,r^2-12\,r\,R\right)^2\left(l^2-r^2-r\,R\right)^2}$$
$$3\,r^2\left(-8\,l^8-136\,l^6\,r^2+136\,l^4\,r^4+8\,l^2\,r^6+6\sqrt{3}\,l^7\,R+108\,l^6\,r\,R+70\sqrt{3}\,l^5\,r^2\,R+344\,l^4\,r^3\,R-70\sqrt{3}\,l^3\,r^4\,R+108\,l^2\,r^5\,R-6\sqrt{3}\,l\,r^6\,R-7\,l^6\,R^2-74\sqrt{3}\,l^5\,r\,R^2+709\,l^4\,r^2\,R^2-180\sqrt{3}\,l^3\,r^3\,R^2+495\,l^2\,r^4\,R^2-74\sqrt{3}\,l\,r^5\,R^2+3\,r^6\,R^2+44\,l^4\,r\,R^3-416\sqrt{3}\,l^3\,r^2\,R^3+736\,l^2\,r^3\,R^3-304\sqrt{3}\,l\,r^4\,R^3+36\,r^5\,R^3+176\,l^2\,r^2\,R^4-416\sqrt{3}\,l\,r^3\,R^4+144\,r^4\,R^4+192\,r^3\,R^5\right)\Big\}$$

$$\Big\{\text{X17, 1st NAPOLEON POINT, X82, ISOGONAL CONJUGATE OF X(38)},$$

$$-\Big(\Big(3 r^2 \Big(-8 l^{12} - 8\sqrt{3}\, l^{11} r - 168 l^{10} r^2 + 24\sqrt{3}\, l^9 r^3 + 1040 l^8 r^4 + 16\sqrt{3}\, l^7 r^5 - 1712 l^6 r^6 - 48\sqrt{3}\, l^5 r^7 + 1016 l^4 r^8 - 8\sqrt{3}\, l^3 r^9 - 168 l^2 r^{10} + 24\sqrt{3}\, l r^{11} + 6\sqrt{3}\, l^{11} R + 242 l^{10} r R + 218\sqrt{3}\, l^9 r^2 R + 2686 l^8 r^3 R - 516\sqrt{3}\, l^7 r^4 R - 10860 l^6 r^5 R + 340\sqrt{3}\, l^5 r^6 R + 10620 l^4 r^7 R - 514\sqrt{3}\, l^3 r^8 R - 2694 l^2 r^9 R + 466\sqrt{3}\, l r^{10} R + 6 r^{11} R - 7 l^{10} R^2 - 162\sqrt{3}\, l^9 r R^2 - 1873 l^8 r^2 R^2 - 1696\sqrt{3}\, l^7 r^3 R^2 - 17782 l^6 r^4 R^2 + 3628\sqrt{3}\, l^5 r^5 R^2 + 39166 l^4 r^6 R^2 - 4560\sqrt{3}\, l^3 r^7 R^2 - 16451 l^2 r^8 R^2 + 3590\sqrt{3}\, l r^9 R^2 + 147 r^{10} R^2 + 156 l^8 r R^3 + 1424\sqrt{3}\, l^7 r^2 R^3 + 3584 l^6 r^3 R^3 + 4992\sqrt{3}\, l^5 r^4 R^3 + 52296 l^4 r^5 R^3 - 13296\sqrt{3}\, l^3 r^6 R^3 - 46656 l^2 r^7 R^3 + 13600\sqrt{3}\, l r^8 R^3 + 1500 r^9 R^3 - 1376 l^6 r^2 R^4 - 6432\sqrt{3}\, l^5 r^3 R^4 + 8640 l^4 r^4 R^4 - 7392\sqrt{3}\, l^3 r^5 R^4 - 59392 l^2 r^6 R^4 + 24640\sqrt{3}\, l r^7 R^4 + 8160 r^8 R^4 + 6912 l^4 r^3 R^5 + 14720\sqrt{3}\, l^3 r^4 R^5 - 30976 l^2 r^5 R^5 + 14336\sqrt{3}\, l r^6 R^5 + 24960 r^7 R^5 - 18688 l^2 r^4 R^6 - 6656\sqrt{3}\, l r^5 R^6 + 40704 r^6 R^6 + 27648 r^5 R^7\Big)\Big)\Big/$$

$$\Big(\Big(3 l^2 + 10\sqrt{3}\, l r - 3 r^2 - 12 r R\Big)^2 \Big(l^4 - 4 l^2 r^2 + 3 r^4 - 9 l^2 r R + 19 r^3 R + 28 r^2 R^2\Big)^2\Big)\Big)\Big\}$$

$$\Big\{\text{X17, 1st NAPOLEON POINT, X83, CEVAPOINT OF CENTROID AND SYMMEDIAN POINT},$$

$$\Big(3\Big(l^2 - 2\sqrt{3}\, l r - r^2 - 4 r R\Big)^3 \Big(3 l^8 + 8\sqrt{3}\, l^7 r + 60 l^6 r^2 + 8\sqrt{3}\, l^5 r^3 - 142 l^4 r^4 - 8\sqrt{3}\, l^3 r^5 + 60 l^2 r^6 - 8\sqrt{3}\, l r^7 + 3 r^8 - 48 l^6 r R - 96\sqrt{3}\, l^5 r^2 R - 432 l^4 r^3 R + 64\sqrt{3}\, l^3 r^4 R + 432 l^2 r^5 R - 96\sqrt{3}\, l r^6 R + 48 r^7 R + 64 l^4 r^2 R^2 + 320\sqrt{3}\, l^3 r^3 R^2 + 800 l^2 r^4 R^2 - 384\sqrt{3}\, l r^5 R^2 + 288 r^6 R^2 + 128 l^2 r^3 R^3 - 512\sqrt{3}\, l r^4 R^3 + 768 r^5 R^3 + 768 r^4 R^4\Big)\Big)\Big/$$

$$\Big(\Big(3 l^2 + 10\sqrt{3}\, l r - 3 r^2 - 12 r R\Big)^2 \Big(5 l^4 - 6 l^2 r^2 + 5 r^4 - 40 l^2 r R + 40 r^3 R + 80 r^2 R^2\Big)^2\Big)\Big\}$$

$$\Big\{\text{X17, 1st NAPOLEON POINT, X84, ISOGONAL CONJUGATE OF X(40)}, \frac{1}{r^2\Big(3 l^2 + 10\sqrt{3}\, l r - 3 r^2 - 12 r R\Big)^2}$$

$$12\Big(-2\sqrt{3}\, l^5 r^3 - 18 l^4 r^4 - 2\sqrt{3}\, l^3 r^5 - 2 l^2 r^6 + 3 l^6 r R + 21\sqrt{3}\, l^5 r^2 R + 107 l^4 r^3 R - 7\sqrt{3}\, l^3 r^4 R - 48 l^2 r^5 R + 4\sqrt{3}\, l r^6 R - 3 l^6 R^2 - 20\sqrt{3}\, l^5 r R^2 - 124 l^4 r^2 R^2 - 100\sqrt{3}\, l^3 r^3 R^2 - 153 l^2 r^4 R^2 + 32\sqrt{3}\, l r^5 R^2 + 24 l^4 r R^3 + 76\sqrt{3}\, l^3 r^2 R^3 + 8 l^2 r^3 R^3 + 68\sqrt{3}\, l r^4 R^3 + 12 l^4 R^4 + 80\sqrt{3}\, l^3 r R^4 + 328 l^2 r^2 R^4 - 64\sqrt{3}\, l r^3 R^4 + 12 r^4 R^4 - 96 l^2 r R^5 - 320\sqrt{3}\, l r^2 R^5 + 96 r^3 R^5 + 192 r^2 R^6\Big)\Big\}$$

$$\Big\{\text{X17, 1st NAPOLEON POINT, X85, ISOTOMIC CONJUGATE OF X(9)},$$

$$\frac{1}{\Big(3 l^2 + 10\sqrt{3}\, l r - 3 r^2 - 12 r R\Big)^2 \Big(l^2 + r^2 + 8 r R + 16 R^2\Big)^2}$$

$$3\Big(3 l^{10} + 14\sqrt{3}\, l^9 r + 57 l^8 r^2 + 24\sqrt{3}\, l^7 r^3 + 54 l^6 r^4 + 20\sqrt{3}\, l^5 r^5 - 54 l^4 r^6 + 24\sqrt{3}\, l^3 r^7 - 57 l^2 r^8 + 14\sqrt{3}\, l r^9 - 3 r^{10} - 84 l^8 r R - 416\sqrt{3}\, l^7 r^2 R - 1312 l^6 r^3 R + 528\sqrt{3}\, l^5 r^4 R + 616 l^4 r^5 R - 1056 l^2 r^7 R + 336\sqrt{3}\, l r^8 R - 84 r^9 R - 96\sqrt{3}\, l^7 r R^2 - 16 l^6 r^2 R^2 + 2496\sqrt{3}\, l^5 r^3 R^2 + 7440 l^4 r^4 R^2 - 2368\sqrt{3}\, l^3 r^5 R^2 - 7760 l^2 r^6 R^2 + 3360\sqrt{3}\, l r^7 R^2 - 1008 r^8 R^2 + 192 l^6 r R^3 + 2816\sqrt{3}\, l^5 r^2 R^3 + 16128 l^4 r^3 R^3 - 13056\sqrt{3}\, l^3 r^4 R^3 - 28160 l^2 r^5 R^3 + 17920\sqrt{3}\, l r^6 R^3 - 6720 r^7 R^3 - 1280 l^4 r^2 R^4 - 21504\sqrt{3}\, l^3 r^3 R^4 - 49920 l^2 r^4 R^4 + 53760\sqrt{3}\, l r^5 R^4 - 26880 r^6 R^4 - 4096\sqrt{3}\, l^3 r^2 R^5 - 32768 l^2 r^3 R^5 + 86016\sqrt{3}\, l r^4 R^5 - 64512 r^5 R^5 + 4096 l^2 r^2 R^6 + 57344\sqrt{3}\, l r^3 R^6 - 86016 r^4 R^6 - 49152 r^3 R^7\Big)\Big\}$$

$$\left\{\text{X17, 1st NAPOLEON POINT, X86, CEVAPOINT OF INCENTER AND CENTROID,}\right.$$

$$\frac{1}{\left(3 l^2+10\sqrt{3}\, l\, r-3 r^2-12 r R\right)^2 \left(5 l^2+r^2+4 r R\right)^2}$$

$$3\left(3 l^{10}-10\sqrt{3}\, l^9 r+33 l^8 r^2-176\sqrt{3}\, l^7 r^3+750 l^6 r^4-52\sqrt{3}\, l^5 r^5-382 l^4 r^6+128\sqrt{3}\, l^3 r^7-\right.$$
$$81 l^2 r^8+14\sqrt{3}\, l\, r^9-3 r^{10}-12 l^8 r R+96\sqrt{3}\, l^7 r^2 R-224 l^6 r^3 R-224\sqrt{3}\, l^5 r^4 R-1112 l^4 r^5 R+$$
$$928\sqrt{3}\, l^3 r^6 R-960 l^2 r^7 R+224\sqrt{3}\, l\, r^8 R-60 r^9 R-320 l^6 r^2 R^2+1376\sqrt{3}\, l^5 r^3 R^2-3648 l^4 r^4 R^2+$$
$$2720\sqrt{3}\, l^3 r^5 R^2-4064 l^2 r^6 R^2+1344\sqrt{3}\, l\, r^7 R^2-480 r^8 R^2-2048 l^4 r^3 R^3+4224\sqrt{3}\, l^3 r^4 R^3-$$
$$\left.\left.7168 l^2 r^5 R^3+3584\sqrt{3}\, l\, r^6 R^3-1920 r^7 R^3-4352 l^2 r^4 R^4+3584\sqrt{3}\, l\, r^5 R^4-3840 r^6 R^4-3072 r^5 R^5\right)\right\}$$

$$\left\{\text{X17, 1st NAPOLEON POINT, X87, X(2)-CROSS CONJUGATE OF X(1),}\right.$$

$$-\left(\left(12 r^2\left(-2 l^{12}+2\sqrt{3}\, l^{11} r-26 l^{10} r^2+10\sqrt{3}\, l^9 r^3-84 l^8 r^4+20\sqrt{3}\, l^7 r^5-116 l^6 r^6+20\sqrt{3}\, l^5 r^7-\right.\right.\right.$$
$$74 l^4 r^8+10\sqrt{3}\, l^3 r^9-18 l^2 r^{10}+2\sqrt{3}\, l\, r^{11}-3\sqrt{3}\, l^{11} R+61 l^{10} r R-71\sqrt{3}\, l^9 r^2 R+$$
$$753 l^8 r^3 R-126\sqrt{3}\, l^7 r^4 R+866 l^6 r^5 R+18\sqrt{3}\, l^5 r^6 R-286 l^4 r^7 R+145\sqrt{3}\, l^3 r^8 R-$$
$$463 l^2 r^9 R+69\sqrt{3}\, l\, r^{10} R-3 r^{11} R-4 l^{10} R^2+56\sqrt{3}\, l^9 r R^2-460 l^8 r^2 R^2+448\sqrt{3}\, l^7 r^3 R^2-$$
$$6536 l^6 r^4 R^2-528\sqrt{3}\, l^5 r^5 R^2+6664 l^4 r^6 R^2-128\sqrt{3}\, l^3 r^7 R^2-3700 l^2 r^8 R^2+$$
$$792\sqrt{3}\, l\, r^9 R^2-60 r^{10} R^2+64 l^8 r R^3+32\sqrt{3}\, l^7 r^2 R^3-1504 l^6 r^3 R^3+1184\sqrt{3}\, l^5 r^4 R^3+$$
$$11680 l^4 r^5 R^3-2848\sqrt{3}\, l^3 r^6 R^3-11808 l^2 r^7 R^3+4192\sqrt{3}\, l\, r^8 R^3-480 r^9 R^3-$$
$$128 l^6 r^2 R^4-2304\sqrt{3}\, l^5 r^3 R^4+18048 l^4 r^4 R^4-3840\sqrt{3}\, l^3 r^5 R^4-12416 l^2 r^6 R^4+$$
$$10752\sqrt{3}\, l\, r^7 R^4-1920 r^8 R^4+2048 l^4 r^3 R^5-4864\sqrt{3}\, l^3 r^4 R^5+2304 l^2 r^5 R^5+$$
$$\left.\left.\left.11520\sqrt{3}\, l\, r^6 R^5-3840 r^7 R^5-1024 l^2 r^4 R^6+2048\sqrt{3}\, l\, r^5 R^6-3072 r^6 R^6\right)\right)\Big/$$
$$\left.\left.\left(\left(3 l^2+10\sqrt{3}\, l\, r-3 r^2-12 r R\right)^2\left(l^4+2 l^2 r^2+r^4-20 l^2 r R+12 r^3 R+32 r^2 R^2\right)^2\right)\right)\right\}$$

$$\left\{\text{X17, 1st NAPOLEON POINT, X88, ISOGONAL CONJUGATE OF X(44),}\right.$$

$$-\frac{1}{\left(l^2+3 r^2-15 r R\right)^2\left(3 l^2+10\sqrt{3}\, l\, r-3 r^2-12 r R\right)^2}$$

$$3 r^2\left(-8 l^8+32\sqrt{3}\, l^7 r+120 l^6 r^2+128\sqrt{3}\, l^5 r^3+456 l^4 r^4+96\sqrt{3}\, l^3 r^5+\right.$$
$$72 l^2 r^6-6\sqrt{3}\, l^7 R+236 l^6 r R-782\sqrt{3}\, l^5 r^2 R-2376 l^4 r^3 R-426\sqrt{3}\, l^3 r^4 R+$$
$$972 l^2 r^5 R-162\sqrt{3}\, l\, r^6 R-7 l^6 R^2-10\sqrt{3}\, l^5 r R^2-2043 l^4 r^2 R^2+4188\sqrt{3}\, l^3 r^3 R^2+$$
$$4959 l^2 r^4 R^2-2106\sqrt{3}\, l\, r^5 R^2+243 r^6 R^2+60 l^4 r R^3+2496\sqrt{3}\, l^3 r^2 R^3+3024 l^2 r^3 R^3-$$
$$\left.9072\sqrt{3}\, l\, r^4 R^3+2916 r^5 R^3-144 l^2 r^2 R^4-12960\sqrt{3}\, l\, r^3 R^4+11664 r^4 R^4+15552 r^3 R^5\right)\Big\}$$

$$\left\{\text{X17, 1st NAPOLEON POINT, X89, ISOGONAL CONJUGATE OF X(45),}\right.$$

$$-\frac{1}{\left(3 l^2+10\sqrt{3}\, l\, r-3 r^2-12 r R\right)^2\left(2 l^2-6 r^2+3 r R\right)^2}$$

$$3 r^2\left(-32 l^8-64\sqrt{3}\, l^7 r-1056 l^6 r^2+128\sqrt{3}\, l^5 r^3+3360 l^4 r^4+192\sqrt{3}\, l^3 r^5+\right.$$
$$288 l^2 r^6+12\sqrt{3}\, l^7 R+176 l^6 r R+916\sqrt{3}\, l^5 r^2 R+1248 l^4 r^3 R-1212\sqrt{3}\, l^3 r^4 R+$$
$$3888 l^2 r^5 R-324\sqrt{3}\, l\, r^6 R-19 l^6 R^2+158\sqrt{3}\, l^5 r R^2+7149 l^4 r^2 R^2+2796\sqrt{3}\, l^3 r^3 R^2+$$
$$17811 l^2 r^4 R^2-4050\sqrt{3}\, l\, r^5 R^2+243 r^6 R^2-108 l^4 r R^3-3792\sqrt{3}\, l^3 r^2 R^3+21816 l^2 r^3 R^3-$$
$$\left.16848\sqrt{3}\, l\, r^4 R^3+2916 r^5 R^3+720 l^2 r^2 R^4-23328\sqrt{3}\, l\, r^3 R^4+11664 r^4 R^4+15552 r^3 R^5\right)\Big\}$$

$$\left\{X17,\ 1st\ NAPOLEON\ POINT,\ X90,\ X(3)\text{-}CROSS\ CONJUGATE\ OF\ X(1),\right.$$

$$\frac{1}{\left(3 l^2+10\sqrt{3}\, l\, r-3 r^2-12 r R\right)^2 \left(r^2+2 r R-R^2\right)^2}$$

$$12 r^2 \left(-2\sqrt{3}\, l^5 r^3-18 l^4 r^4-2\sqrt{3}\, l^3 r^5-2 l^2 r^6+3 l^6 r R+15\sqrt{3}\, l^5 r^2 R+55 l^4 r^3 R-15\sqrt{3}\, l^3 r^4 R-\right.$$
$$36 l^2 r^5 R+2\sqrt{3}\, l\, r^6 R-20 l^4 r^2 R^2-82\sqrt{3}\, l^3 r^3 R^2-172 l^2 r^4 R^2+22\sqrt{3}\, l\, r^5 R^2+\sqrt{3}\, l^5 R^3-$$
$$16 l^4 r R^3-72\sqrt{3}\, l^3 r^2 R^3-244 l^2 r^3 R^3+83\sqrt{3}\, l\, r^4 R^3+2 l^4 R^4-16\sqrt{3}\, l^3 r R^4+6 l^2 r^2 R^4+116\sqrt{3}$$
$$\left.\left. l\, r^3 R^4-\sqrt{3}\, l^3 R^5+17 l^2 r R^5+43\sqrt{3}\, l\, r^2 R^5-3 r^3 R^5+4 l^2 R^6+44\sqrt{3}\, l\, r R^6-24 r^2 R^6-48 r R^7\right)\right\}$$

$$\left\{X17,\ 1st\ NAPOLEON\ POINT,\ X91,\ ISOGONAL\ CONJUGATE\ OF\ X(47),\right.$$

$$-\left(\left(3 r^2 \left(-3 l^{10}-14\sqrt{3}\, l^9 r-57 l^8 r^2-24\sqrt{3}\, l^7 r^3-54 l^6 r^4-20\sqrt{3}\, l^5 r^5+54 l^4 r^6-24\sqrt{3}\, l^3 r^7+\right.\right.\right.$$
$$57 l^2 r^8-14\sqrt{3}\, l\, r^9+3 r^{10}-6\sqrt{3}\, l^9 R+34 l^8 r R+312\sqrt{3}\, l^7 r^2 R+920 l^6 r^3 R-$$
$$388\sqrt{3}\, l^5 r^4 R-1268 l^4 r^5 R+312\sqrt{3}\, l^3 r^6 R+728 l^2 r^7 R-262\sqrt{3}\, l\, r^8 R+66 r^9 R+16 l^8 R^2+$$
$$244\sqrt{3}\, l^7 r R^2+692 l^6 r^2 R^2-1988\sqrt{3}\, l^5 r^3 R^2-4868 l^4 r^4 R^2+3068\sqrt{3}\, l^3 r^5 R^2+3644 l^2 r^6 R^2-$$
$$1996\sqrt{3}\, l\, r^7 R^2+612 r^8 R^2+36\sqrt{3}\, l^7 R^3-188 l^6 r R^3-2804\sqrt{3}\, l^5 r^2 R^3-6132 l^4 r^3 R^3+$$
$$8780\sqrt{3}\, l^3 r^4 R^3+8812 l^2 r^5 R^3-7964\sqrt{3}\, l\, r^6 R^3+3108 r^7 R^3-44 l^6 R^4-1048\sqrt{3}\, l^5 r R^4-$$
$$1484 l^4 r^2 R^4+11952\sqrt{3}\, l^3 r^3 R^4+9964 l^2 r^4 R^4-17912\sqrt{3}\, l\, r^5 R^4+9420 r^6 R^4-72\sqrt{3}\, l^5 R^5+$$
$$696 l^4 r R^5+7504\sqrt{3}\, l^3 r^2 R^5+3344 l^2 r^3 R^5-23016\sqrt{3}\, l\, r^4 R^5+17496 r^5 R^5+80 l^4 R^6+$$
$$1648\sqrt{3}\, l^3 r R^6-2256 l^2 r^2 R^6-16592\sqrt{3}\, l\, r^3 R^6+19872 r^4 R^6+48\sqrt{3}\, l^3 R^7-1296 l^2 r R^7-$$
$$\left.\left.\left.6032\sqrt{3}\, l\, r^2 R^7+13488 r^3 R^7-64 l^2 R^8-832\sqrt{3}\, l\, r R^8+4992 r^2 R^8+768 r R^9\right)\right)\Big/$$
$$\left.\left.\left(\left(3 l^2+10\sqrt{3}\, l\, r-3 r^2-12 r R\right)^2 \left(l^2 r+r^3-l^2 R+3 r^2 R+2 r R^2+2 R^3\right)^2\right)\right)\right\}$$

$$\left\{X17,\ 1st\ NAPOLEON\ POINT,\ X92,\ CEVAPOINT\ OF\ INCENTER\ AND\ CLAWSON\ POINT,\right.$$

$$\frac{1}{\left(3 l^2+10\sqrt{3}\, l\, r-3 r^2-12 r R\right)^2 \left(l^2+r^2-4 R^2\right)^2}$$

$$3\left(3 l^{10}+14\sqrt{3}\, l^9 r+57 l^8 r^2+24\sqrt{3}\, l^7 r^3+54 l^6 r^4+20\sqrt{3}\, l^5 r^5-54 l^4 r^6+24\sqrt{3}\, l^3 r^7-57 l^2 r^8+\right.$$
$$14\sqrt{3}\, l\, r^9-3 r^{10}-84 l^8 r R-376\sqrt{3}\, l^7 r^2 R-1160 l^6 r^3 R+392\sqrt{3}\, l^5 r^4 R+1072 l^4 r^5 R-$$
$$264\sqrt{3}\, l^3 r^6 R-728 l^2 r^7 R+248\sqrt{3}\, l\, r^8 R-60 r^9 R-24 l^8 R^2-112\sqrt{3}\, l^7 r R^2+208 l^6 r^2 R^2+$$
$$2304\sqrt{3}\, l^5 r^3 R^2+5264 l^4 r^4 R^2-2832\sqrt{3}\, l^3 r^5 R^2-3792 l^2 r^6 R^2+1792\sqrt{3}\, l\, r^7 R^2-$$
$$504 r^8 R^2+576 l^6 r R^3+2464\sqrt{3}\, l^5 r^2 R^3+4736 l^4 r^3 R^3-8448\sqrt{3}\, l^3 r^4 R^3-9664 l^2 r^5 R^3+$$
$$6752\sqrt{3}\, l\, r^6 R^3-2304 r^7 R^3+48 l^6 R^4+224\sqrt{3}\, l^5 r R^4-2384 l^4 r^2 R^4-9984\sqrt{3}\, l^3 r^3 R^4-$$
$$11056 l^2 r^4 R^4+13984\sqrt{3}\, l\, r^5 R^4-6192 r^6 R^4-960 l^4 r R^5-3840\sqrt{3}\, l^3 r^2 R^5-2304 l^2 r^3 R^5+$$
$$\left.15104\sqrt{3}\, l\, r^4 R^5-9792 r^5 R^5+3328 l^2 r^2 R^6+6656\sqrt{3}\, l\, r^3 R^6-8448 r^4 R^6-3072 r^3 R^7\right)\Big\}$$

$$\left\{X17,\ 1st\ NAPOLEON\ POINT,\ X93,\ ISOGONAL\ CONJUGATE\ OF\ X(49),\right.$$

$$\left(3\left(l^2+2\sqrt{3}\, l\, r-r^2-4 r R-R^2\right)^2 \left(3 l^{10}+2\sqrt{3}\, l^9 r+9 l^8 r^2+8\sqrt{3}\, l^7 r^3+6 l^6 r^4+12\sqrt{3}\, l^5 r^5-\right.\right.$$
$$6 l^4 r^6+8\sqrt{3}\, l^3 r^7-9 l^2 r^8+2\sqrt{3}\, l\, r^9-3 r^{10}-60 l^8 r R-32\sqrt{3}\, l^7 r^2 R-48 l^6 r^3 R-$$
$$32\sqrt{3}\, l^5 r^4 R+24 l^4 r^5 R+32\sqrt{3}\, l^3 r^6 R-48 l^2 r^7 R+32\sqrt{3}\, l\, r^8 R-60 r^9 R-24 l^8 R^2-$$
$$12\sqrt{3}\, l^7 r R^2+8 l^6 r^2 R^2-12\sqrt{3}\, l^5 r^3 R^2+480 l^4 r^4 R^2+76\sqrt{3}\, l^3 r^5 R^2-184 l^2 r^6 R^2+$$
$$204\sqrt{3}\, l\, r^7 R^2-504 r^8 R^2+384 l^6 r R^3+144\sqrt{3}\, l^5 r^2 R^3+1472 l^4 r^3 R^3+160\sqrt{3}\, l^3 r^4 R^3-$$
$$1088 l^2 r^5 R^3+656\sqrt{3}\, l\, r^6 R^3-2304 r^7 R^3+45 l^6 R^4+22\sqrt{3}\, l^5 r R^4+973 l^4 r^2 R^4+44\sqrt{3}\, l^3 r^3 R^4-$$
$$3917 l^2 r^4 R^4+1110\sqrt{3}\, l\, r^5 R^4-6189 r^6 R^4-540 l^4 r R^5-176\sqrt{3}\, l^3 r^2 R^5-6424 l^2 r^3 R^5+$$
$$944\sqrt{3}\, l\, r^4 R^5-9756 r^5 R^5+12 l^4 R^6-24\sqrt{3}\, l^3 r R^6-3912 l^2 r^2 R^6+376\sqrt{3}\, l\, r^3 R^6-8292 r^4 R^6-$$
$$\left.\left.96 l^2 r R^7+96\sqrt{3}\, l\, r^2 R^7-2784 r^3 R^7+192 r^2 R^8\right)\right)\Big/\left(\left(3 l^2+10\sqrt{3}\, l\, r-3 r^2-12 r R\right)^2\right.$$
$$\left.\left.\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-8 l^2 R^2+24 r^2 R^2+32 r R^3+13 R^4\right)^2\right)\right\}$$

$$\Big\{\text{X17, 1st NAPOLEON POINT, X94, ISOGONAL CONJUGATE OF X(50)},$$
$$\Big(3\left(l^2+2\sqrt{3}\,l\,r-r^2-4\,r\,R-3\,R^2\right)^2\left(3\,l^{10}+2\sqrt{3}\,l^9\,r+9\,l^8\,r^2+8\sqrt{3}\,l^7\,r^3+6\,l^6\,r^4+12\sqrt{3}\,l^5\,r^5-6\,l^4\,r^6+8\sqrt{3}\,l^3\,r^7-9\,l^2\,r^8+2\sqrt{3}\,l\,r^9-3\,r^{10}-60\,l^8\,r\,R-32\sqrt{3}\,l^7\,r^2\,R-48\,l^6\,r^3\,R-32\sqrt{3}\,l^5\,r^4\,R+24\,l^4\,r^5\,R+32\sqrt{3}\,l^3\,r^6\,R-48\,l^2\,r^7\,R+32\sqrt{3}\,l\,r^8\,R-60\,r^9\,R-18\,l^8\,R^2-12\sqrt{3}\,l^7\,r\,R^2+64\,l^6\,r^2\,R^2-12\sqrt{3}\,l^5\,r^3\,R^2+580\,l^4\,r^4\,R^2+76\sqrt{3}\,l^3\,r^5\,R^2-128\,l^2\,r^6\,R^2+204\sqrt{3}\,l\,r^7\,R^2-498\,r^8\,R^2+288\,l^6\,r\,R^3+144\sqrt{3}\,l^5\,r^2\,R^3+1120\,l^4\,r^3\,R^3+160\sqrt{3}\,l^3\,r^4\,R^3-736\,l^2\,r^5\,R^3+656\sqrt{3}\,l\,r^6\,R^3-2208\,r^7\,R^3+27\,l^6\,R^4+18\sqrt{3}\,l^5\,r\,R^4+315\,l^4\,r^2\,R^4+36\sqrt{3}\,l^3\,r^3\,R^4-2555\,l^2\,r^4\,R^4+1106\sqrt{3}\,l\,r^5\,R^4-5595\,r^6\,R^4-324\,l^4\,r\,R^5-144\sqrt{3}\,l^3\,r^2\,R^5-3240\,l^2\,r^3\,R^5+912\sqrt{3}\,l\,r^4\,R^5-8004\,r^5\,R^5-1296\,l^2\,r^2\,R^6+288\sqrt{3}\,l\,r^3\,R^6-5904\,r^4\,R^6-1728\,r^3\,R^7\right)\Big)\Big/\Big(\left(3\,l^2+10\sqrt{3}\,l\,r-3\,r^2-12\,r\,R\right)^2\left(l^4+2\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-12\,l^2\,R^2+28\,r^2\,R^2+48\,r\,R^3+27\,R^4\right)^2\Big)\Big\}$$

$$\Big\{\text{X17, 1st NAPOLEON POINT, X95, CEVAPOINT OF CENTROID AND CIRCUMCENTER},$$
$$\Big(3\Big(3\,l^{14}+14\sqrt{3}\,l^{13}\,r+111\,l^{12}\,r^2+212\sqrt{3}\,l^{11}\,r^3+571\,l^{10}\,r^4-814\sqrt{3}\,l^9\,r^5-7729\,l^8\,r^6-2024\sqrt{3}\,l^7\,r^7+7729\,l^6\,r^8-814\sqrt{3}\,l^5\,r^9-571\,l^4\,r^{10}+212\sqrt{3}\,l^3\,r^{11}-111\,l^2\,r^{12}+14\sqrt{3}\,l\,r^{13}-3\,r^{14}-84\,l^{12}\,r\,R-336\sqrt{3}\,l^{11}\,r^2\,R-2136\,l^{10}\,r^3\,R-3056\sqrt{3}\,l^9\,r^4\,R-4716\,l^8\,r^5\,R+9568\sqrt{3}\,l^7\,r^6\,R+35632\,l^6\,r^7\,R-9568\sqrt{3}\,l^5\,r^8\,R-4716\,l^4\,r^9\,R+3056\sqrt{3}\,l^3\,r^{10}\,R-2136\,l^2\,r^{11}\,R+336\sqrt{3}\,l\,r^{12}\,R-84\,r^{13}\,R-24\,l^{12}\,R^2-112\sqrt{3}\,l^{11}\,r\,R^2-32\,l^{10}\,r^2\,R^2+720\sqrt{3}\,l^9\,r^3\,R^2+5992\,l^8\,r^4\,R^2+14496\sqrt{3}\,l^7\,r^5\,R^2+37888\,l^6\,r^6\,R^2-33632\sqrt{3}\,l^5\,r^7\,R^2-12872\,l^4\,r^8\,R^2+17616\sqrt{3}\,l^3\,r^9\,R^2-17120\,l^2\,r^{10}\,R^2+3472\sqrt{3}\,l\,r^{11}\,R^2-1032\,r^{12}\,R^2+576\,l^{10}\,r\,R^3+2240\sqrt{3}\,l^9\,r^2\,R^3+9344\,l^8\,r^3\,R^3+11520\sqrt{3}\,l^7\,r^4\,R^3+7040\,l^6\,r^5\,R^3-49536\sqrt{3}\,l^5\,r^6\,R^3-10752\,l^4\,r^7\,R^3+51456\sqrt{3}\,l^3\,r^8\,R^3-73664\,l^2\,r^9\,R^3+20160\sqrt{3}\,l\,r^{10}\,R^3-7296\,r^{11}\,R^3+48\,l^{10}\,R^4+224\sqrt{3}\,l^9\,r\,R^4-2096\,l^8\,r^2\,R^4-4992\sqrt{3}\,l^7\,r^3\,R^4-13536\,l^6\,r^4\,R^4-33984\sqrt{3}\,l^5\,r^5\,R^4-544\,l^4\,r^6\,R^4+81024\sqrt{3}\,l^3\,r^7\,R^4-182608\,l^2\,r^8\,R^4+71904\sqrt{3}\,l\,r^9\,R^4-32688\,r^{10}\,R^4-960\,l^8\,r\,R^5-3584\sqrt{3}\,l^7\,r^2\,R^5-12288\,l^6\,r^3\,R^5-28160\sqrt{3}\,l^5\,r^4\,R^5-11392\,l^4\,r^5\,R^5+75264\sqrt{3}\,l^3\,r^6\,R^5-260096\,l^2\,r^7\,R^5+161280\sqrt{3}\,l\,r^8\,R^5-96192\,r^9\,R^5+2560\,l^6\,r^2\,R^6-1536\sqrt{3}\,l^5\,r^3\,R^6+5632\,l^4\,r^4\,R^6+57856\sqrt{3}\,l^3\,r^5\,R^6-202240\,l^2\,r^6\,R^6+222208\sqrt{3}\,l\,r^7\,R^6-185856\,r^8\,R^6+10240\,l^4\,r^3\,R^7+34816\sqrt{3}\,l^3\,r^4\,R^7-81920\,l^2\,r^5\,R^7+172032\sqrt{3}\,l\,r^6\,R^7-227328\,r^7\,R^7-20480\,l^2\,r^4\,R^8+57344\sqrt{3}\,l\,r^5\,R^8-159744\,r^6\,R^8-49152\,r^5\,R^9\Big)\Big)\Big/$$
$$\Big(\left(3\,l^2+10\sqrt{3}\,l\,r-3\,r^2-12\,r\,R\right)^2\left(l^4+18\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-4\,l^2\,R^2+20\,r^2\,R^2+16\,r\,R^3\right)^2\Big)\Big\}$$

$$\Big\{\text{X17, 1st NAPOLEON POINT, X96,}$$
$$\text{ISOGONAL CONJUGATE OF X(52)},-\Big(\Big(\left(3\,l^2+2\sqrt{3}\,l\,r-3\,r^2-12\,r\,R-6\,R^2\right)^2\Big(l^{10}+6\sqrt{3}\,l^9\,r+3\,l^8\,r^2-104\sqrt{3}\,l^7\,r^3-254\,l^6\,r^4+292\sqrt{3}\,l^5\,r^5+254\,l^4\,r^6-104\sqrt{3}\,l^3\,r^7-3\,l^2\,r^8+6\sqrt{3}\,l\,r^9-r^{10}-20\,l^8\,r\,R-96\sqrt{3}\,l^7\,r^2\,R-16\,l^6\,r^3\,R+928\sqrt{3}\,l^5\,r^4\,R+1032\,l^4\,r^5\,R-928\sqrt{3}\,l^3\,r^6\,R-16\,l^2\,r^7\,R+96\sqrt{3}\,l\,r^8\,R-20\,r^9\,R-8\,l^8\,R^2-48\sqrt{3}\,l^7\,r\,R^2+64\,l^6\,r^2\,R^2+1168\sqrt{3}\,l^5\,r^3\,R^2+1520\,l^4\,r^4\,R^2-3024\sqrt{3}\,l^3\,r^5\,R^2+624\sqrt{3}\,l\,r^7\,R^2-168\,r^8\,R^2+128\,l^6\,r\,R^3+576\sqrt{3}\,l^5\,r^2\,R^3-4480\sqrt{3}\,l^3\,r^4\,R^3+128\,l^2\,r^5\,R^3+2112\sqrt{3}\,l\,r^6\,R^3-768\,r^7\,R^3+20\,l^6\,R^4+120\sqrt{3}\,l^5\,r\,R^4-460\,l^4\,r^2\,R^4-3152\sqrt{3}\,l^3\,r^3\,R^4+460\,l^2\,r^4\,R^4+3960\sqrt{3}\,l\,r^5\,R^4-2068\,r^6\,R^4-240\,l^4\,r\,R^5-960\sqrt{3}\,l^3\,r^2\,R^5+1056\,l^2\,r^3\,R^5+4032\sqrt{3}\,l\,r^4\,R^5-3312\,r^5\,R^5-16\,l^4\,R^6-96\sqrt{3}\,l^3\,r\,R^6+608\,l^2\,r^2\,R^6+2016\sqrt{3}\,l\,r^3\,R^6-3024\,r^4\,R^6+128\,l^2\,r\,R^7+384\sqrt{3}\,l\,r^2\,R^7-1408\,r^3\,R^7-256\,r^2\,R^8\Big)\Big)\Big/$$
$$\Big(\left(3\,l^2+10\sqrt{3}\,l\,r-3\,r^2-12\,r\,R\right)^2\left(l^4-14\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R+16\,r^2\,R^2-4\,R^4\right)^2\Big)\Big)\Big\}$$

$$\{\text{X17, 1st NAPOLEON POINT, X97, ISOGONAL CONJUGATE OF X(53)},$$
$$\Big(3\Big(8 l^{12} r^2 + 16\sqrt{3}\, l^{11} r^3 + 216 l^{10} r^4 - 64\sqrt{3}\, l^9 r^5 - 1840 l^8 r^6 - 160\sqrt{3}\, l^7 r^7 + 1840 l^6 r^8 -$$
$$64\sqrt{3}\, l^5 r^9 - 216 l^4 r^{10} + 16\sqrt{3}\, l^3 r^{11} - 8 l^2 r^{12} - 160 l^{10} r^3 R - 256\sqrt{3}\, l^9 r^4 R - 2432 l^8 r^5 R +$$
$$768\sqrt{3}\, l^7 r^6 R + 9792 l^6 r^7 R - 768\sqrt{3}\, l^5 r^8 R - 2432 l^4 r^9 R + 256\sqrt{3}\, l^3 r^{10} R - 160 l^2 r^{11} R +$$
$$6\sqrt{3}\, l^{11} r R^2 - 36 l^{10} r^2 R^2 - 14\sqrt{3}\, l^9 r^3 R^2 - 1744 l^8 r^4 R^2 + 492\sqrt{3}\, l^7 r^5 R^2 + 18856 l^6 r^6 R^2 -$$
$$2028\sqrt{3}\, l^5 r^7 R^2 - 11472 l^4 r^8 R^2 + 1550\sqrt{3}\, l^3 r^9 R^2 - 1316 l^2 r^{10} R^2 - 6\sqrt{3}\, l r^{11} R^2 -$$
$$120\sqrt{3}\, l^9 r^2 R^3 + 576 l^8 r^3 R^3 + 288\sqrt{3}\, l^7 r^4 R^3 + 18496 l^6 r^5 R^3 - 208\sqrt{3}\, l^5 r^6 R^3 - 29760 l^4 r^7 R^3 +$$
$$4384\sqrt{3}\, l^3 r^8 R^3 - 5696 l^2 r^9 R^3 - 120\sqrt{3}\, l r^{10} R^3 + 3 l^{10} R^4 - 46\sqrt{3}\, l^9 r R^4 - 59 l^8 r^2 R^4 -$$
$$224\sqrt{3}\, l^7 r^3 R^4 + 10306 l^6 r^4 R^4 + 5084\sqrt{3}\, l^5 r^5 R^4 - 47298 l^4 r^6 R^4 + 5024\sqrt{3}\, l^3 r^7 R^4 -$$
$$13637 l^2 r^8 R^4 - 1006\sqrt{3}\, l r^9 R^4 - 3 r^{10} R^4 - 60 l^8 r R^5 + 736\sqrt{3}\, l^7 r^2 R^5 + 768 l^6 r^3 R^5 +$$
$$4896\sqrt{3}\, l^5 r^4 R^5 - 46600 l^4 r^5 R^5 - 2080\sqrt{3}\, l^3 r^6 R^5 - 16640 l^2 r^7 R^5 - 4576\sqrt{3}\, l r^8 R^5 -$$
$$60 r^9 R^5 - 24 l^8 R^6 + 80\sqrt{3}\, l^7 r R^6 + 512 l^6 r^2 R^6 + 2512\sqrt{3}\, l^5 r^3 R^6 - 22896 l^4 r^4 R^6 -$$
$$12304\sqrt{3}\, l^3 r^5 R^6 - 5632 l^2 r^6 R^6 - 12176\sqrt{3}\, l r^7 R^6 - 504 r^8 R^6 + 384 l^6 r R^7 - 960\sqrt{3}\, l^5 r^2 R^7 -$$
$$2560 l^4 r^3 R^7 - 14976\sqrt{3}\, l^3 r^4 R^7 + 7296 l^2 r^5 R^7 - 18880\sqrt{3}\, l r^6 R^7 - 2304 r^7 R^7 + 48 l^6 R^8 +$$
$$32\sqrt{3}\, l^5 r R^8 - 80 l^4 r^2 R^8 - 8128\sqrt{3}\, l^3 r^3 R^8 + 5200 l^2 r^4 R^8 - 15584\sqrt{3}\, l r^5 R^8 - 6192 r^6 R^8 -$$
$$576 l^4 r R^9 - 256\sqrt{3}\, l^3 r^2 R^9 - 2176 l^2 r^3 R^9 - 4864\sqrt{3}\, l r^4 R^9 - 9792 r^5 R^9 - 2304 l^2 r^2 R^{10} +$$
$$512\sqrt{3}\, l r^3 R^{10} - 8448 r^4 R^{10} - 3072 r^3 R^{11}\Big)\Big) \Big/ \Big(\Big(3 l^2 + 10\sqrt{3}\, l r - 3 r^2 - 12 r R\Big)^2$$
$$\Big(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 7 l^2 R^2 + 23 r^2 R^2 + 28 r R^3 + 12 R^4\Big)^2\Big)\Big\}$$

$$\{\text{X17, 1st NAPOLEON POINT, X98, TarryPoint},$$
$$-\Big(\Big(\Big(3 l^2 + 2\sqrt{3}\, l r - 3 r^2 - 12 r R\Big)^2 \Big(l^4 + 4\sqrt{3}\, l^3 r - 6 l^2 r^2 - 4\sqrt{3}\, l r^3 + r^4 -$$
$$8 l^2 r R - 16\sqrt{3}\, l r^2 R + 8 r^3 R - 4 l^2 R^2 - 16\sqrt{3}\, l r R^2 + 20 r^2 R^2 + 16 r R^3\Big)\Big) \Big/$$
$$\Big(\Big(3 l^2 + 10\sqrt{3}\, l r - 3 r^2 - 12 r R\Big)^2 \Big(l^2 - 2\sqrt{3}\, l r - r^2 - 4 r R\Big)\Big)\Big)\Big\}$$

$$\{\text{X17, 1st NAPOLEON POINT, X99, STEINER POINT},$$
$$\frac{1}{\Big(3 l^2 + 10\sqrt{3}\, l r - 3 r^2 - 12 r R\Big)^2 \Big(l^2 - 2\sqrt{3}\, l r - r^2 - 4 r R\Big)}$$
$$3\Big(3 l^8 + 8\sqrt{3}\, l^7 r + 12 l^6 r^2 + 72\sqrt{3}\, l^5 r^3 + 146 l^4 r^4 - 72\sqrt{3}\, l^3 r^5 +$$
$$12 l^2 r^6 - 8\sqrt{3}\, l r^7 + 3 r^8 - 48 l^6 r R - 96\sqrt{3}\, l^5 r^2 R - 48 l^4 r^3 R - 192\sqrt{3}\, l^3 r^4 R +$$
$$48 l^2 r^5 R - 96\sqrt{3}\, l r^6 R + 48 r^7 R - 32 l^4 r^2 R^2 - 512\sqrt{3}\, l^3 r^3 R^2 + 128 l^2 r^4 R^2 -$$
$$384\sqrt{3}\, l r^5 R^2 + 288 r^6 R^2 + 512 l^2 r^3 R^3 - 512\sqrt{3}\, l r^4 R^3 + 768 r^5 R^3 + 768 r^4 R^4\Big)\Big\}$$

$$\{\text{X17, 1st NAPOLEON POINT, X100},$$
$$\text{ANTICOMPLEMENT OF FEUERBACH POINT}, \frac{1}{(2 r - R)\Big(3 l^2 + 10\sqrt{3}\, l r - 3 r^2 - 12 r R\Big)^2}$$
$$3\Big(-8\sqrt{3}\, l^5 r^2 - 64 l^4 r^3 - 16\sqrt{3}\, l^3 r^4 + 64 l^2 r^5 - 8\sqrt{3}\, l r^6 - 3 l^6 R - 14\sqrt{3}\, l^5 r R -$$
$$51 l^4 r^2 R + 84\sqrt{3}\, l^3 r^3 R + 467 l^2 r^4 R - 94\sqrt{3}\, l r^5 R + 3 r^6 R + 60 l^4 r R^2 + 256\sqrt{3}\, l^3 r^2 R^2 +$$
$$720 l^2 r^3 R^2 - 368\sqrt{3}\, l r^4 R^2 + 36 r^5 R^2 - 208 l^2 r^2 R^3 - 480\sqrt{3}\, l r^3 R^3 + 144 r^4 R^3 + 192 r^3 R^4\Big)\Big\}$$

$$\left\{\text{X18, 2nd NAPOLEON POINT, X19, CLAWSON POINT, } \frac{1}{\left(3 l^2-10\sqrt{3}\, l\, r-3 r^2-12 r R\right)^2 \left(l^2-r^2-6 r R-8 R^2\right)^2} 12 l^2 \left(2\sqrt{3}\, l^7 r-18 l^6 r^2-2\sqrt{3}\, l^5 r^3+34 l^4 r^4-2\sqrt{3}\, l^3 r^5-14 l^2 r^6+2\sqrt{3}\, l\, r^7-2 r^8-6 l^6 r R+2\sqrt{3}\, l^5 r^2 R+80 l^4 r^3 R-32\sqrt{3}\, l^3 r^4 R-42 l^2 r^5 R+30\sqrt{3}\, l\, r^6 R-32 r^7 R-3 l^6 R^2-4\sqrt{3}\, l^5 r R^2+175 l^4 r^2 R^2-148\sqrt{3}\, l^3 r^3 R^2-53 l^2 r^4 R^2+176\sqrt{3}\, l\, r^5 R^2-199 r^6 R^2+84 l^4 r R^3-152\sqrt{3}\, l^3 r^2 R^3-240 l^2 r^3 R^3+504\sqrt{3}\, l\, r^4 R^3-596 r^5 R^3+12 l^4 R^4-16\sqrt{3}\, l^3 r R^4-464 l^2 r^2 R^4+704\sqrt{3}\, l\, r^3 R^4-844 r^4 R^4-192 l^2 r R^5+384\sqrt{3}\, l\, r^2 R^5-416 r^3 R^5+64 r^2 R^6\right)\right\}$$

$$\left\{\text{X18, 2nd NAPOLEON POINT, X20, DE LONGCHAMPS POINT, } -\frac{1}{\left(3 l^2-10\sqrt{3}\, l\, r-3 r^2-12 r R\right)^2} 3 \left(9 l^6-70\sqrt{3}\, l^5 r+377 l^4 r^2+84\sqrt{3}\, l^3 r^3-377 l^2 r^4-70\sqrt{3}\, l\, r^5-9 r^6-108 l^4 r R+560\sqrt{3}\, l^3 r^2 R-1400 l^2 r^3 R-560\sqrt{3}\, l\, r^4 R-108 r^5 R-48 l^4 R^2+336\sqrt{3}\, l^3 r R^2-1200 l^2 r^2 R^2-1456\sqrt{3}\, l\, r^3 R^2-480 r^4 R^2+384 l^2 r R^3-1344\sqrt{3}\, l\, r^2 R^3-960 r^3 R^3-768 r^2 R^4\right)\right\}$$

$$\left\{\text{X18, 2nd NAPOLEON POINT, X21, SCHIFFLER POINT, } -\frac{1}{(2 r+3 R)^2 \left(3 l^2-10\sqrt{3}\, l\, r-3 r^2-12 r R\right)^2} 3 \left(-16\sqrt{3}\, l^5 r^3+128 l^4 r^4-32\sqrt{3}\, l^3 r^5-128 l^2 r^6-16\sqrt{3}\, l\, r^7-6 l^6 r R+4\sqrt{3}\, l^5 r^2 R+58 l^4 r^3 R+8\sqrt{3}\, l^3 r^4 R-570 l^2 r^5 R-124\sqrt{3}\, l\, r^6 R+6 r^7 R-3 l^6 R^2+2\sqrt{3}\, l^5 r R^2+41 l^4 r^2 R^2+36\sqrt{3}\, l^3 r^3 R^2-693 l^2 r^4 R^2-318\sqrt{3}\, l\, r^5 R^2+63 r^6 R^2+36 l^4 r R^3+8\sqrt{3}\, l^3 r^2 R^3-8 l^2 r^3 R^3-328\sqrt{3}\, l\, r^4 R^3+228 r^5 R^3+144 l^2 r^2 R^4-64\sqrt{3}\, l\, r^3 R^4+336 r^4 R^4+192 r^3 R^5\right)\right\}$$

$$\left\{\text{X18, 2nd NAPOLEON POINT, X22, ExeterPoint, } \frac{1}{\left(3 l^2-10\sqrt{3}\, l\, r-3 r^2-12 r R\right)^2 \left(l^2-r^2-4 r R-3 R^2\right)^2} 3 \left(4\sqrt{3}\, l^9 r-32 l^8 r^2+96 l^6 r^4-8\sqrt{3}\, l^5 r^5-96 l^4 r^6+32 l^2 r^8+4\sqrt{3}\, l\, r^9-64\sqrt{3}\, l^7 r^2 R+384 l^6 r^3 R+64\sqrt{3}\, l^5 r^4 R-768 l^4 r^5 R-64\sqrt{3}\, l^3 r^6 R+384 l^2 r^7 R+64\sqrt{3}\, l\, r^8 R-22\sqrt{3}\, l^7 r R^2+128 l^6 r^2 R^2+394\sqrt{3}\, l^5 r^3 R^2-1792 l^4 r^4 R^2-522\sqrt{3}\, l^3 r^5 R^2+1664 l^2 r^6 R^2+406\sqrt{3}\, l\, r^7 R^2+264\sqrt{3}\, l^5 r^2 R^3-1024 l^4 r^3 R^3-1328\sqrt{3}\, l^3 r^4 R^3+3072 l^2 r^5 R^3+1288\sqrt{3}\, l\, r^6 R^3+3 l^6 R^4+10\sqrt{3}\, l^5 r R^4+91 l^4 r^2 R^4-1052\sqrt{3}\, l^3 r^3 R^4+1957 l^2 r^4 R^4+2090\sqrt{3}\, l\, r^5 R^4-3 r^6 R^4-36 l^4 r R^5-80\sqrt{3}\, l^3 r^2 R^5-328 l^2 r^3 R^5+1488\sqrt{3}\, l\, r^4 R^5-36 r^5 R^5-144 l^2 r^2 R^6+160\sqrt{3}\, l\, r^3 R^6-144 r^4 R^6-192 r^3 R^7\right)\right\}$$

$$\left\{\text{X18, 2nd NAPOLEON POINT, X23, FarOutPoint, } \frac{1}{\left(3 l^2-10\sqrt{3}\, l\, r-3 r^2-12 r R\right)^2 \left(2 l^2-2 r^2-8 r R-9 R^2\right)} 3 \left(8\sqrt{3}\, l^7 r-64 l^6 r^2+8\sqrt{3}\, l^5 r^3+128 l^4 r^4-8\sqrt{3}\, l^3 r^5-64 l^2 r^6-8\sqrt{3}\, l\, r^7-96\sqrt{3}\, l^5 r^2 R+512 l^4 r^3 R+64\sqrt{3}\, l^3 r^4 R-512 l^2 r^5 R-96\sqrt{3}\, l\, r^6 R-3 l^6 R^2-6\sqrt{3}\, l^5 r R^2-3 l^4 r^2 R^2+372\sqrt{3}\, l^3 r^3 R^2-1021 l^2 r^4 R^2-390\sqrt{3}\, l\, r^5 R^2+3 r^6 R^2+36 l^4 r R^3+48\sqrt{3}\, l^3 r^2 R^3-24 l^2 r^3 R^3-560\sqrt{3}\, l\, r^4 R^3+36 r^5 R^3+144 l^2 r^2 R^4-96\sqrt{3}\, l\, r^3 R^4+144 r^4 R^4+192 r^3 R^5\right)\right\}$$

$$\Big\{\text{X18, 2nd NAPOLEON POINT, X24, PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE,}$$

$$\frac{1}{\left(3\,l^2-10\sqrt{3}\,l\,r-3\,r^2-12\,r\,R\right)^2\left(l^2-r^2-4\,r\,R-5\,R^2\right)^2}$$

$$3\Big(4\sqrt{3}\,l^9\,r-32\,l^8\,r^2+96\,l^6\,r^4-8\sqrt{3}\,l^5\,r^5-96\,l^4\,r^6+32\,l^2\,r^8+4\sqrt{3}\,l\,r^9-64\sqrt{3}\,l^7\,r^2\,R+384\,l^6\,r^3\,R+$$
$$64\sqrt{3}\,l^5\,r^4\,R-768\,l^4\,r^5\,R-64\sqrt{3}\,l^3\,r^6\,R+384\,l^2\,r^7\,R+64\sqrt{3}\,l\,r^8\,R-38\sqrt{3}\,l^7\,r\,R^2+$$
$$256\,l^6\,r^2\,R^2+378\sqrt{3}\,l^5\,r^3\,R^2-2048\,l^4\,r^4\,R^2-506\sqrt{3}\,l^3\,r^5\,R^2+1792\,l^2\,r^6\,R^2+422\sqrt{3}\,l\,r^7\,R^2+$$
$$456\sqrt{3}\,l^5\,r^2\,R^3-2048\,l^4\,r^3\,R^3-1456\sqrt{3}\,l^3\,r^4\,R^3+4096\,l^2\,r^5\,R^3+1480\sqrt{3}\,l\,r^6\,R^3-3\,l^6\,R^4+$$
$$118\sqrt{3}\,l^5\,r\,R^4-491\,l^4\,r^2\,R^4-1860\sqrt{3}\,l^3\,r^3\,R^4+4587\,l^2\,r^4\,R^4+2966\sqrt{3}\,l\,r^5\,R^4+3\,r^6\,R^4+$$
$$36\,l^4\,r\,R^5-944\sqrt{3}\,l^3\,r^2\,R^5+1928\,l^2\,r^3\,R^5+3376\sqrt{3}\,l\,r^4\,R^5+36\,r^5\,R^5+12\,l^4\,R^6-120\sqrt{3}\,l^3\,r\,R^6-$$
$$168\,l^2\,r^2\,R^6+2008\sqrt{3}\,l\,r^3\,R^6+156\,r^4\,R^6-96\,l^2\,r\,R^7+480\sqrt{3}\,l\,r^2\,R^7+288\,r^3\,R^7+192\,r^2\,R^8\Big)\Big\}$$

$$\Big\{\text{X18, 2nd NAPOLEON POINT, X25, HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES,}$$

$$\frac{1}{\left(3\,l^2-10\sqrt{3}\,l\,r-3\,r^2-12\,r\,R\right)^2\left(l^2-r^2-4\,r\,R-6\,R^2\right)^2}$$

$$3\Big(4\sqrt{3}\,l^9\,r-32\,l^8\,r^2+96\,l^6\,r^4-8\sqrt{3}\,l^5\,r^5-96\,l^4\,r^6+32\,l^2\,r^8+4\sqrt{3}\,l\,r^9-64\sqrt{3}\,l^7\,r^2\,R+$$
$$384\,l^6\,r^3\,R+64\sqrt{3}\,l^5\,r^4\,R-768\,l^4\,r^5\,R-64\sqrt{3}\,l^3\,r^6\,R+384\,l^2\,r^7\,R+64\sqrt{3}\,l\,r^8\,R-3\,l^8\,R^2-$$
$$20\sqrt{3}\,l^7\,r\,R^2+160\,l^6\,r^2\,R^2+332\sqrt{3}\,l^5\,r^3\,R^2-1850\,l^4\,r^4\,R^2-460\sqrt{3}\,l^3\,r^5\,R^2+1696\,l^2\,r^6\,R^2+$$
$$404\sqrt{3}\,l\,r^7\,R^2-3\,r^8\,R^2+48\,l^6\,r\,R^3+240\sqrt{3}\,l^5\,r^2\,R^3-1328\,l^4\,r^3\,R^3-1056\sqrt{3}\,l^3\,r^4\,R^3+$$
$$3376\,l^2\,r^5\,R^3+1264\sqrt{3}\,l\,r^6\,R^3-48\,r^7\,R^3+12\,l^6\,R^4+16\sqrt{3}\,l^5\,r\,R^4-68\,l^4\,r^2\,R^4-896\sqrt{3}\,l^3\,r^3\,R^4+$$
$$2724\,l^2\,r^4\,R^4+2000\sqrt{3}\,l\,r^5\,R^4-300\,r^6\,R^4-144\,l^4\,r\,R^5-128\sqrt{3}\,l^3\,r^2\,R^5+32\,l^2\,r^3\,R^5+$$
$$1408\sqrt{3}\,l\,r^4\,R^5-912\,r^5\,R^5-576\,l^2\,r^2\,R^6+256\sqrt{3}\,l\,r^3\,R^6-1344\,r^4\,R^6-768\,r^3\,R^7\Big)\Big\}$$

$$\Big\{\text{X18, 2nd NAPOLEON POINT, X26, CIRCUMCENTER OF THE TANGENTIAL TRIANGLE,}$$

$$\frac{1}{(l-r-2\,R)^2\,(l+r+2\,R)^2\left(3\,l^2-10\sqrt{3}\,l\,r-3\,r^2-12\,r\,R\right)^2}$$

$$3\Big(4\sqrt{3}\,l^9\,r-32\,l^8\,r^2+96\,l^6\,r^4-8\sqrt{3}\,l^5\,r^5-96\,l^4\,r^6+32\,l^2\,r^8+4\sqrt{3}\,l\,r^9-64\sqrt{3}\,l^7\,r^2\,R+$$
$$384\,l^6\,r^3\,R+64\sqrt{3}\,l^5\,r^4\,R-768\,l^4\,r^5\,R-64\sqrt{3}\,l^3\,r^6\,R+384\,l^2\,r^7\,R+64\sqrt{3}\,l\,r^8\,R-$$
$$30\sqrt{3}\,l^7\,r\,R^2+192\,l^6\,r^2\,R^2+386\sqrt{3}\,l^5\,r^3\,R^2-1920\,l^4\,r^4\,R^2-514\sqrt{3}\,l^3\,r^5\,R^2+1728\,l^2\,r^6\,R^2+$$
$$414\sqrt{3}\,l\,r^7\,R^2+360\sqrt{3}\,l^5\,r^2\,R^3-1536\,l^4\,r^3\,R^3-1392\sqrt{3}\,l^3\,r^4\,R^3+3584\,l^2\,r^5\,R^3+$$
$$1384\sqrt{3}\,l\,r^6\,R^3+60\sqrt{3}\,l^5\,r\,R^4-168\,l^4\,r^2\,R^4-1464\sqrt{3}\,l^3\,r^3\,R^4+3240\,l^2\,r^4\,R^4+$$
$$2524\sqrt{3}\,l\,r^5\,R^4-480\sqrt{3}\,l^3\,r^2\,R^5+672\,l^2\,r^3\,R^5+2400\sqrt{3}\,l\,r^4\,R^5+3\,l^4\,R^6-36\sqrt{3}\,l^3\,r\,R^6-$$
$$258\,l^2\,r^2\,R^6+996\sqrt{3}\,l\,r^3\,R^6+3\,r^4\,R^6-24\,l^2\,r\,R^7+144\sqrt{3}\,l\,r^2\,R^7+24\,r^3\,R^7+48\,r^2\,R^8\Big)\Big\}$$

$$\Big\{\text{X18, 2nd NAPOLEON POINT, X27, CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER,}$$

$$\Big(27\Big(-9\,l^{10}+70\sqrt{3}\,l^9\,r-383\,l^8\,r^2-80\sqrt{3}\,l^7\,r^3+534\,l^6\,r^4-116\sqrt{3}\,l^5\,r^5-126\,l^4\,r^6+32\sqrt{3}\,l^3\,r^7-$$
$$13\,l^2\,r^8-2\sqrt{3}\,l\,r^9-3\,r^{10}+84\,l^8\,r\,R-544\sqrt{3}\,l^7\,r^2\,R+2112\,l^6\,r^3\,R-224\sqrt{3}\,l^5\,r^4\,R-$$
$$1080\,l^4\,r^5\,R+288\sqrt{3}\,l^3\,r^6\,R-96\,l^2\,r^7\,R-32\sqrt{3}\,l\,r^8\,R-60\,r^9\,R+24\,l^8\,R^2-320\sqrt{3}\,l^7\,r\,R^2+$$
$$2176\,l^6\,r^2\,R^2+592\sqrt{3}\,l^5\,r^3\,R^2-3296\,l^4\,r^4\,R^2+960\sqrt{3}\,l^3\,r^5\,R^2-320\,l^2\,r^6\,R^2-$$
$$208\sqrt{3}\,l\,r^7\,R^2-504\,r^8\,R^2+1344\sqrt{3}\,l^5\,r^2\,R^3-4352\,l^4\,r^3\,R^3+1280\sqrt{3}\,l^3\,r^4\,R^3-896\,l^2\,r^5\,R^3-$$
$$704\sqrt{3}\,l\,r^6\,R^3-2304\,r^7\,R^3+48\,l^6\,R^4+160\sqrt{3}\,l^5\,r\,R^4-2384\,l^4\,r^2\,R^4+256\sqrt{3}\,l^3\,r^3\,R^4-$$
$$2352\,l^2\,r^4\,R^4-1312\sqrt{3}\,l\,r^5\,R^4-6192\,r^6\,R^4-576\,l^4\,r\,R^5-512\sqrt{3}\,l^3\,r^2\,R^5-3712\,l^2\,r^3\,R^5-$$
$$1280\sqrt{3}\,l\,r^4\,R^5-9792\,r^5\,R^5-2304\,l^2\,r^2\,R^6-512\sqrt{3}\,l\,r^3\,R^6-8448\,r^4\,R^6-3072\,r^3\,R^7\Big)\Big)\Big/$$
$$\Big(\left(\sqrt{3}\,l-3\,r-6\,R\right)^2\left(\sqrt{3}\,l+3\,r+6\,R\right)^2\left(3\,l^2-10\sqrt{3}\,l\,r-3\,r^2-12\,r\,R\right)^2\Big)\Big\}$$

$$\left\{\text{X18, 2nd NAPOLEON POINT, X28, CEVAPOINT OF X(19) AND X(25)},\right.$$

$$\frac{1}{\left(3 l^2-10\sqrt{3}\, l\, r-3 r^2-12 r R\right)^2 \left(l^2-r^2-5 r R-6 R^2\right)^2}$$

$$3\left(4\sqrt{3}\, l^9 r-32 l^8 r^2+96 l^6 r^4-8\sqrt{3}\, l^5 r^5-96 l^4 r^6+32 l^2 r^8+4\sqrt{3}\, l\, r^9-3 l^8 r R-46\sqrt{3}\, l^7 r^2 R+\right.$$
$$288 l^6 r^3 R+18\sqrt{3}\, l^5 r^4 R-570 l^4 r^5 R-18\sqrt{3}\, l^3 r^6 R+288 l^2 r^7 R+46\sqrt{3}\, l\, r^8 R-3 r^9 R-$$
$$3 l^8 R^2-20\sqrt{3}\, l^7 r R^2+205 l^6 r^2 R^2+134\sqrt{3}\, l^5 r^3 R^2-1181 l^4 r^4 R^2-120\sqrt{3}\, l^3 r^5 R^2+$$
$$1027 l^2 r^6 R^2+206\sqrt{3}\, l\, r^7 R^2-48 r^8 R^2+60 l^6 r R^3+156\sqrt{3}\, l^5 r^2 R^3-920 l^4 r^3 R^3-$$
$$296\sqrt{3}\, l^3 r^4 R^3+1732 l^2 r^5 R^3+460\sqrt{3}\, l\, r^6 R^3-312 r^7 R^3+12 l^6 R^4+16\sqrt{3}\, l^5 r R^4-200 l^4 r^2 R^4-$$
$$\left.296\sqrt{3}\, l^3 r^3 R^4+1116 l^2 r^4 R^4+536\sqrt{3}\, l\, r^5 R^4-1056 r^6 R^4-144 l^4 r R^5-80\sqrt{3}\, l^3 r^2 R^5-\right.$$
$$\left.\left.352 l^2 r^3 R^5+304\sqrt{3}\, l\, r^4 R^5-1968 r^5 R^5-576 l^2 r^2 R^6+64\sqrt{3}\, l\, r^3 R^6-1920 r^4 R^6-768 r^3 R^7\right)\right\}$$

$$\left\{\text{X18, 2nd NAPOLEON POINT, X29, CEVAPOINT OF INCENTER AND ORTHOCENTER},\right.$$

$$\frac{1}{\left(3 l^2-10\sqrt{3}\, l\, r-3 r^2-12 r R\right)^2 \left(3 l^2-r^2-8 r R-12 R^2\right)^2}$$

$$3\left(3 l^{10}-2\sqrt{3}\, l^9 r+13 l^8 r^2+32\sqrt{3}\, l^7 r^3+126 l^6 r^4-116\sqrt{3}\, l^5 r^5-534 l^4 r^6-80\sqrt{3}\, l^3 r^7+\right.$$
$$383 l^2 r^8+70\sqrt{3}\, l\, r^9+9 r^{10}-60 l^8 r R+32\sqrt{3}\, l^7 r^2 R+240 l^6 r^3 R-256\sqrt{3}\, l^5 r^4 R-$$
$$2664 l^4 r^5 R-480\sqrt{3}\, l^3 r^6 R+3312 l^2 r^7 R+832\sqrt{3}\, l\, r^8 R+132 r^9 R-24 l^8 R^2+16\sqrt{3}\, l^7 r R^2+$$
$$16 l^6 r^2 R^2-96\sqrt{3}\, l^5 r^3 R^2-4112 l^4 r^4 R^2-1104\sqrt{3}\, l^3 r^5 R^2+11440 l^2 r^6 R^2+3872\sqrt{3}\, l\, r^7 R^2+$$
$$744 r^8 R^2+384 l^6 r R^3-96\sqrt{3}\, l^5 r^2 R^3-1472 l^4 r^3 R^3-1344\sqrt{3}\, l^3 r^4 R^3+19264 l^2 r^5 R^3+$$
$$8992\sqrt{3}\, l\, r^6 R^3+1920 r^7 R^3+48 l^6 R^4-32\sqrt{3}\, l^5 r R^4+496 l^4 r^2 R^4-896\sqrt{3}\, l^3 r^3 R^4+$$
$$14544 l^2 r^4 R^4+10784\sqrt{3}\, l\, r^5 R^4+1680 r^6 R^4-576 l^4 r R^5-128\sqrt{3}\, l^3 r^2 R^5+1664 l^2 r^3 R^5+$$
$$\left.\left.6016\sqrt{3}\, l\, r^4 R^5-2112 r^5 R^5-2304 l^2 r^2 R^6+1024\sqrt{3}\, l\, r^3 R^6-5376 r^4 R^6-3072 r^3 R^7\right)\right\}$$

$$\left\{\text{X18, 2nd NAPOLEON POINT, X30, EulerInfinityPoint}, \infty\right\}$$

$$\left\{\text{X18, 2nd NAPOLEON POINT, X31, SecondPowerPoint}, \frac{1}{\left(3 l^2-10\sqrt{3}\, l\, r-3 r^2-12 r R\right)^2 \left(l^2-3 r^2-6 r R\right)^2}\right.$$

$$12 r^2\left(2 l^8-2\sqrt{3}\, l^7 r+46 l^6 r^2+2\sqrt{3}\, l^5 r^3-170 l^4 r^4+10\sqrt{3}\, l^3 r^5+42 l^2 r^6+6\sqrt{3}\, l\, r^7-32 l^6 r R+\right.$$
$$24\sqrt{3}\, l^5 r^2 R-336 l^4 r^3 R-32\sqrt{3}\, l^3 r^4 R+336 l^2 r^5 R+72\sqrt{3}\, l\, r^6 R+l^6 R^2-4\sqrt{3}\, l^5 r R^2-$$
$$89 l^4 r^2 R^2-64\sqrt{3}\, l^3 r^3 R^2+707 l^2 r^4 R^2+292\sqrt{3}\, l\, r^5 R^2-3 r^6 R^2-12 l^4 r R^3+80\sqrt{3}\, l^3 r^2 R^3+$$
$$\left.\left.224 l^2 r^3 R^3+416\sqrt{3}\, l\, r^4 R^3-36 r^5 R^3+48 l^2 r^2 R^4+64\sqrt{3}\, l\, r^3 R^4-144 r^4 R^4-192 r^3 R^5\right)\right\}$$

$$\left\{\text{X18, 2nd NAPOLEON POINT, X32, ThirdPowerPoint},\right.$$

$$\left(12 l^2 r^2\left(2 l^{10}-4\sqrt{3}\, l^9 r+54 l^8 r^2+16\sqrt{3}\, l^7 r^3-460 l^6 r^4+40\sqrt{3}\, l^5 r^5+460 l^4 r^6+\right.\right.$$
$$16\sqrt{3}\, l^3 r^7-54 l^2 r^8-4\sqrt{3}\, l\, r^9-2 r^{10}-40 l^8 r R+64\sqrt{3}\, l^7 r^2 R-608 l^6 r^3 R-$$
$$192\sqrt{3}\, l^5 r^4 R+2448 l^4 r^5 R+192\sqrt{3}\, l^3 r^6 R-608 l^2 r^7 R-64\sqrt{3}\, l\, r^8 R-40 r^9 R+l^8 R^2+$$
$$4\sqrt{3}\, l^7 r R^2-20 l^6 r^2 R^2-252\sqrt{3}\, l^5 r^3 R^2+3222 l^4 r^4 R^2+636\sqrt{3}\, l^3 r^5 R^2-2452 l^2 r^6 R^2-$$
$$388\sqrt{3}\, l\, r^7 R^2-319 r^8 R^2-16 l^6 r R^3-48\sqrt{3}\, l^5 r^2 R^3+1456 l^4 r^3 R^3+544\sqrt{3}\, l^3 r^4 R^3-$$
$$4272 l^2 r^5 R^3-1072\sqrt{3}\, l\, r^6 R^3-1264 r^7 R^3+96 l^4 r^2 R^4+192\sqrt{3}\, l^3 r^3 R^4-3008 l^2 r^4 R^4-$$
$$\left.\left.1216\sqrt{3}\, l\, r^5 R^4-2464 r^6 R^4-256 l^2 r^3 R^5-256\sqrt{3}\, l\, r^4 R^5-1792 r^5 R^5+256 r^4 R^6\right)\right)\Big/$$
$$\left.\left.\left(3 l^2-10\sqrt{3}\, l\, r-3 r^2-12 r R\right)^2\left(l^2-2 l\, r-r^2-4 r R\right)^2\left(l^2+2 l\, r-r^2-4 r R\right)^2\right)\right\}$$

{X18, 2nd NAPOLEON POINT, X33, PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES,

$$\frac{1}{\left(3 l^2-10\sqrt{3}\, l r-3 r^2-12 r R\right)^2 \left(l^2-r^2-2 r R-4 R^2\right)^2}$$

$$12 r^2 \left(2 l^8+2\sqrt{3}\, l^7 r+14 l^6 r^2-2\sqrt{3}\, l^5 r^3-34 l^4 r^4-2\sqrt{3}\, l^3 r^5+18 l^2 r^6+2\sqrt{3}\, l r^7+2\sqrt{3}\, l^7 R-30 l^6 r R-12\sqrt{3}\, l^5 r^2 R-160 l^4 r^3 R-18\sqrt{3}\, l^3 r^4 R+190 l^2 r^5 R+28\sqrt{3}\, l r^6 R-15 l^6 R^2-56\sqrt{3}\, l^5 r R^2-109 l^4 r^2 R^2-28\sqrt{3}\, l^3 r^3 R^2+687 l^2 r^4 R^2+140\sqrt{3}\, l r^5 R^2-3 r^6 R^2-16\sqrt{3}\, l^5 R^3+168 l^4 r R^3+208\sqrt{3}\, l^3 r^2 R^3+1016 l^2 r^3 R^3+256\sqrt{3}\, l r^4 R^3-48 r^5 R^3+12 l^4 R^4+384\sqrt{3}\, l^3 r R^4+560 l^2 r^2 R^4-112\sqrt{3}\, l r^3 R^4-300 r^4 R^4+32\sqrt{3}\, l^3 R^5+48 l^2 r R^5-896\sqrt{3}\, l r^2 R^5-912 r^3 R^5+64 l^2 R^6-768\sqrt{3}\, l r R^6-1344 r^2 R^6-768 r R^7\right)\}$$

{X18, 2nd NAPOLEON POINT, X34, X(4)-BETH CONJUGATE OF X(4),

$$\frac{1}{\left(3 l^2-10\sqrt{3}\, l r-3 r^2-12 r R\right)^2 \left(l^2-r^2-6 r R-4 R^2\right)^2}$$

$$12 r^2 \left(2 l^8+2\sqrt{3}\, l^7 r+14 l^6 r^2-2\sqrt{3}\, l^5 r^3-34 l^4 r^4-2\sqrt{3}\, l^3 r^5+18 l^2 r^6+2\sqrt{3}\, l r^7+4\sqrt{3}\, l^7 R-72 l^6 r R-42\sqrt{3}\, l^5 r^2 R+38 l^4 r^3 R+44\sqrt{3}\, l^3 r^4 R+40 l^2 r^5 R-6\sqrt{3}\, l r^6 R-6 r^7 R-15 l^6 R^2-92\sqrt{3}\, l^5 r R^2+311 l^4 r^2 R^2+308\sqrt{3}\, l^3 r^3 R^2-129 l^2 r^4 R^2-192\sqrt{3}\, l r^5 R^2-87 r^6 R^2-32\sqrt{3}\, l^5 R^3+432 l^4 r R^3+688\sqrt{3}\, l^3 r^2 R^3-520 l^2 r^3 R^3-912\sqrt{3}\, l r^4 R^3-504 r^5 R^3+12 l^4 R^4+560\sqrt{3}\, l^3 r R^4-640 l^2 r^2 R^4-1920\sqrt{3}\, l r^3 R^4-1500 r^4 R^4+64\sqrt{3}\, l^3 R^5-336 l^2 r R^5-2016\sqrt{3}\, l r^2 R^5-2448 r^3 R^5+64 l^2 R^6-896\sqrt{3}\, l r R^6-2112 r^2 R^6-768 r R^7\right)\}$$

{X18, 2nd NAPOLEON POINT, X35, {X(1),X(3)}-HARMONIC CONJUGATE OF X(36),

$$\left(12 r^2 \left(\sqrt{3}\, l+r+4 R\right) \left(4 l^4 r-12\sqrt{3}\, l^3 r^2+20 l^2 r^3+4\sqrt{3}\, l r^4+2 l^4 R-10\sqrt{3}\, l^3 r R+34 l^2 r^2 R+22\sqrt{3}\, l r^3 R-12 l^2 r R^2+28\sqrt{3}\, l r^2 R^2+l^2 R^3-8\sqrt{3}\, l r R^3-3 r^2 R^3-12 r R^4\right)\right) \Big/ \left((2 r+R)^2 \left(3 l^2-10\sqrt{3}\, l r-3 r^2-12 r R\right)^2\right)\}$$

{X18, 2nd NAPOLEON POINT, X36, INVERSE-IN-CIRCUMCIRCLE OF INCENTER,

$$\left(12 r^2 \left(2\sqrt{3}\, l^5-16 l^4 r+4\sqrt{3}\, l^3 r^2+16 l^2 r^3+2\sqrt{3}\, l r^4-2 l^4 R-18\sqrt{3}\, l^3 r R+46 l^2 r^2 R+14\sqrt{3}\, l r^3 R-5\sqrt{3}\, l^3 R^2+39 l^2 r R^2+39\sqrt{3}\, l r^2 R^2+3 r^3 R^2-4 l^2 R^3+60\sqrt{3}\, l r R^3+24 r^2 R^3+48 r R^4\right)\right) \Big/ \left((2 r-R) \left(3 l^2-10\sqrt{3}\, l r-3 r^2-12 r R\right)^2\right)\}$$

{X18, 2nd NAPOLEON POINT, X37, CrosspointOfIncenterAndCentroid,

$$\frac{1}{\left(3 l^2-10\sqrt{3}\, l r-3 r^2-12 r R\right)^2 \left(l^2+r^2+4 r R\right)^2}$$

$$12 l^2 r^2 \left(2 l^6+4\sqrt{3}\, l^5 r+2 l^4 r^2+8\sqrt{3}\, l^3 r^3-2 l^2 r^4+4\sqrt{3}\, l r^5-2 r^6+6\sqrt{3}\, l^5 R-40 l^4 r R-28\sqrt{3}\, l^3 r^2 R+112 l^2 r^3 R+46\sqrt{3}\, l r^4 R-24 r^5 R+13 l^4 R^2-120\sqrt{3}\, l^3 r R^2+134 l^2 r^2 R^2+176\sqrt{3}\, l r^3 R^2-95 r^4 R^2-184 l^2 r R^3+224\sqrt{3}\, l r^2 R^3-120 r^3 R^3+16 r^2 R^4\right)\}$$

{X18, 2nd NAPOLEON POINT, X38, CROSSPOINT OF X(1) AND X(75),

$$-\frac{1}{\left(3 l^2-10\sqrt{3}\, l r-3 r^2-12 r R\right)^2 \left(l^2+r^2-2 r R\right)^2}$$

$$12 r^2 \left(-2 l^8-6\sqrt{3}\, l^7 r+18 l^6 r^2-10\sqrt{3}\, l^5 r^3+42 l^4 r^4-2\sqrt{3}\, l^3 r^5+22 l^2 r^6+2\sqrt{3}\, l r^7-6\sqrt{3}\, l^7 R+58 l^6 r R+130\sqrt{3}\, l^5 r^2 R-342 l^4 r^3 R-122\sqrt{3}\, l^3 r^4 R+310 l^2 r^5 R+62\sqrt{3}\, l r^6 R+6 r^7 R-13 l^6 R^2+176\sqrt{3}\, l^5 r R^2-583 l^4 r^2 R^2-992\sqrt{3}\, l^3 r^3 R^2+1385 l^2 r^4 R^2+560\sqrt{3}\, l r^5 R^2+99 r^6 R^2+268 l^4 r R^3-1328\sqrt{3}\, l^3 r^2 R^3+1600 l^2 r^3 R^3+2016\sqrt{3}\, l r^4 R^3+612 r^5 R^3-1264 l^2 r^2 R^4+2560\sqrt{3}\, l r^3 R^4+1680 r^4 R^4+1728 r^3 R^5\right)\}$$

$$\Big\{\text{X18, 2nd NAPOLEON POINT, X39, BrocardMidpoint,}$$
$$\Big(12\,l^2 r^2 \left(l^2+2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)\left(2\,l^8+8\,l^6 r^2+12\,l^4 r^4+8\,l^2 r^6+2\,r^8-32\,l^6 r\,R-32\,l^4 r^3 R+32\,l^2 r^5 R+32\,r^7 R+l^6 R^2-6\sqrt{3}\,l^5 r\,R^2-15\,l^4 r^2 R^2+84\sqrt{3}\,l^3 r^3 R^2+79\,l^2 r^4 R^2-6\sqrt{3}\,l\,r^5 R^2+191\,r^6 R^2-12\,l^4 r\,R^3+48\sqrt{3}\,l^3 r^2 R^3+328\,l^2 r^3 R^3-48\sqrt{3}\,l\,r^4 R^3+500\,r^5 R^3+48\,l^2 r^2 R^4-96\sqrt{3}\,l\,r^3 R^4+464\,r^4 R^4-64\,r^3 R^5\right)\Big)\Big/$$
$$\Big(\left(3\,l^2-10\sqrt{3}\,l\,r-3\,r^2-12\,r\,R\right)^2\left(l^4+2\,l^2 r^2+r^4-8\,l^2 r\,R+8\,r^3 R+16\,r^2 R^2\right)^2\Big)\Big\}$$

$$\Big\{\text{X18, 2nd NAPOLEON POINT, X40, BEVAN POINT,}$$
$$\Big(12\left(2\sqrt{3}\,l^5 r-18\,l^4 r^2+2\sqrt{3}\,l^3 r^3-2\,l^2 r^4-3\,l^4 r\,R+\sqrt{3}\,l^3 r^2 R+5\,l^2 r^3 R+\sqrt{3}\,l\,r^4 R+3\,l^4 R^2-22\sqrt{3}\,l^3 r\,R^2+118\,l^2 r^2 R^2+26\sqrt{3}\,l\,r^3 R^2+3\,r^4 R^2-24\,l^2 r\,R^3+88\sqrt{3}\,l\,r^2 R^3+24\,r^3 R^3+48\,r^2 R^4\right)\Big)\Big/\left(3\,l^2-10\sqrt{3}\,l\,r-3\,r^2-12\,r\,R\right)^2\Big\}$$

$$\Big\{\text{X18, 2nd NAPOLEON POINT, X41, X(6)-CEVA CONJUGATE OF X(31),}$$
$$\Big(12\,l^2 r^2\left(6\sqrt{3}\,l^7 r-42\,l^6 r^2+10\sqrt{3}\,l^5 r^3+170\,l^4 r^4+2\sqrt{3}\,l^3 r^5-46\,l^2 r^6-2\sqrt{3}\,l\,r^7-2\,r^8+4\sqrt{3}\,l^7 R-16\,l^6 r\,R-68\sqrt{3}\,l^5 r^2 R+680\,l^4 r^3 R+28\sqrt{3}\,l^3 r^4 R-496\,l^2 r^5 R-28\sqrt{3}\,l\,r^6 R-40\,r^7 R+5\,l^6 R^2-76\sqrt{3}\,l^5 r\,R^2+467\,l^4 r^2 R^2+80\sqrt{3}\,l^3 r^3 R^2-1873\,l^2 r^4 R^2-132\sqrt{3}\,l\,r^5 R^2-319\,r^6 R^2-16\sqrt{3}\,l^5 R^3+72\,l^4 r\,R^3+48\sqrt{3}\,l^3 r^2 R^3-2968\,l^2 r^3 R^3-176\sqrt{3}\,l\,r^4 R^3-1264\,r^5 R^3+16\,l^4 R^4+192\sqrt{3}\,l^3 r\,R^4-1936\,l^2 r^2 R^4+320\sqrt{3}\,l\,r^3 R^4-2464\,r^4 R^4-256\,l^2 r\,R^5+768\sqrt{3}\,l\,r^2 R^5-1792\,r^3 R^5+256\,r^2 R^6\right)\Big)\Big/$$
$$\Big(\left(3\,l^2-10\sqrt{3}\,l\,r-3\,r^2-12\,r\,R\right)^2\left(3\,l^2 r-r^3+2\,l^2 R-8\,r^2 R-16\,r\,R^2\right)^2\Big)\Big\}$$

$$\Big\{\text{X18, 2nd NAPOLEON POINT, X42, CROSSPOINT OF INCENTER AND SYMMEDIAN POINT,}$$
$$\frac{1}{\left(3\,l^2-10\sqrt{3}\,l\,r-3\,r^2-12\,r\,R\right)^2\left(l^2+r^2-2\,r\,R\right)^2}$$
$$12\,r^2\left(2\,l^8+2\sqrt{3}\,l^7 r+22\,l^6 r^2+6\sqrt{3}\,l^5 r^3+38\,l^4 r^4+6\sqrt{3}\,l^3 r^5+18\,l^2 r^6+2\sqrt{3}\,l\,r^7-16\,l^6 r\,R-16\sqrt{3}\,l^5 r^2 R+64\,l^4 r^3 R+80\,l^2 r^5 R+16\sqrt{3}\,l\,r^6 R+l^6 R^2+4\sqrt{3}\,l^5 r\,R^2-289\,l^4 r^2 R^2-88\sqrt{3}\,l^3 r^3 R^2-197\,l^2 r^4 R^2+4\sqrt{3}\,l\,r^5 R^2-3\,r^6 R^2-4\,l^4 r\,R^3-64\sqrt{3}\,l^3 r^2 R^3-840\,l^2 r^3 R^3-224\sqrt{3}\,l\,r^4 R^3-36\,r^5 R^3+16\,l^2 r^2 R^4-448\sqrt{3}\,l\,r^3 R^4-144\,r^4 R^4-192\,r^3 R^5\right)\Big\}$$

$$\Big\{\text{X18, 2nd NAPOLEON POINT, X43, X(6)-CEVA CONJUGATE OF X(1),}$$
$$\frac{1}{\left(3\,l^2-10\sqrt{3}\,l\,r-3\,r^2-12\,r\,R\right)^2\left(l^2+r^2-8\,r\,R\right)^2}$$
$$12\,r^2\left(2\,l^8+2\sqrt{3}\,l^7 r+22\,l^6 r^2+6\sqrt{3}\,l^5 r^3+38\,l^4 r^4+6\sqrt{3}\,l^3 r^5+18\,l^2 r^6+2\sqrt{3}\,l\,r^7-3\sqrt{3}\,l^7 R-13\,l^6 r\,R-49\sqrt{3}\,l^5 r^2 R+41\,l^4 r^3 R-25\sqrt{3}\,l^3 r^4 R+57\,l^2 r^5 R+21\sqrt{3}\,l\,r^6 R+3\,r^7 R+4\,l^6 R^2+32\sqrt{3}\,l^5 r\,R^2-276\,l^4 r^2 R^2-32\sqrt{3}\,l^3 r^3 R^2-372\,l^2 r^4 R^2+64\sqrt{3}\,l\,r^5 R^2+36\,r^6 R^2-64\,l^4 r\,R^3+272\sqrt{3}\,l^3 r^2 R^3-944\,l^2 r^3 R^3+16\sqrt{3}\,l\,r^4 R^3+144\,r^5 R^3+64\,l^2 r^2 R^4-128\sqrt{3}\,l\,r^3 R^4+192\,r^4 R^4\right)\Big\}$$

$$\Big\{\text{X18, 2nd NAPOLEON POINT, X44, X(6)-LINE CONJUGATE OF X(1),}$$
$$\frac{1}{\left(l^2-3\,r^2-12\,r\,R\right)^2\left(3\,l^2-10\sqrt{3}\,l\,r-3\,r^2-12\,r\,R\right)^2}$$
$$12\,l^2 r^2\left(2\,l^6-4\sqrt{3}\,l^5 r+66\,l^4 r^2+8\sqrt{3}\,l^3 r^3-210\,l^2 r^4+12\sqrt{3}\,l\,r^5-18\,r^6-6\sqrt{3}\,l^5 R+16\,l^4 r\,R-44\sqrt{3}\,l^3 r^2 R-312\,l^2 r^3 R+138\sqrt{3}\,l\,r^4 R-216\,r^5 R+13\,l^4 R^2+56\sqrt{3}\,l^3 r\,R^2-642\,l^2 r^2 R^2+528\sqrt{3}\,l\,r^3 R^2-855\,r^4 R^2-216\,l^2 r\,R^3+672\sqrt{3}\,l\,r^2 R^3-1080\,r^3 R^3+144\,r^2 R^4\right)\Big\}$$

$$\left\{\text{X18, 2nd NAPOLEON POINT, X45, X(9)-BETH CONJUGATE OF X(1)},\right.$$

$$\frac{1}{\left(3 l^2-10\sqrt{3}\, l\, r-3 r^2-12 r R\right)^2 \left(l^2+3 r^2+12 r R\right)^2}$$

$$12 l^2 r^2 \left(2 l^6+8\sqrt{3}\, l^5 r-30 l^4 r^2+32\sqrt{3}\, l^3 r^3-114 l^2 r^4+24\sqrt{3}\, l r^5-18 r^6+12\sqrt{3}\, l^5 R-\right.$$
$$32 l^4 r R-128\sqrt{3}\, l^3 r^2 R+360 l^2 r^3 R+276\sqrt{3}\, l r^4 R-216 r^5 R+49 l^4 R^2-304\sqrt{3}\, l^3 r R^2+$$
$$\left.\left.378 l^2 r^2 R^2+1056\sqrt{3}\, l r^3 R^2-855 r^4 R^2-744 l^2 r R^3+1344\sqrt{3}\, l r^2 R^3-1080 r^3 R^3+144 r^2 R^4\right)\right\}$$

$$\left\{\text{X18, 2nd NAPOLEON POINT, X46, X(4)-CEVA CONJUGATE OF X(1)},\right.$$

$$-\left(\left(12 r^2 \left(-2\sqrt{3}\, l^5 r+18 l^4 r^2-2\sqrt{3}\, l^3 r^3+2 l^2 r^4+2\sqrt{3}\, l^5 R-13 l^4 r R+3\sqrt{3}\, l^3 r^2 R+\right.\right.\right.$$
$$11 l^2 r^3 R+\sqrt{3}\, l r^4 R-2 l^4 R^2-16\sqrt{3}\, l^3 r R^2+22 l^2 r^2 R^2+8\sqrt{3}\, l r^3 R^2-5\sqrt{3}\, l^3 R^3+$$
$$\left.\left.39 l^2 r R^3+31\sqrt{3}\, l r^2 R^3+3 r^3 R^3-4 l^2 R^4+60\sqrt{3}\, l r R^4+24 r^2 R^4+48 r R^5\right)\right)\Big/$$
$$\left.\left.\left((r-R)^2 \left(3 l^2-10\sqrt{3}\, l\, r-3 r^2-12 r R\right)^2\right)\right)\right\}$$

$$\left\{\text{X18, 2nd NAPOLEON POINT, X47, X(110)-BETH CONJUGATE OF X(34)},\right.$$

$$\frac{1}{\left(3 l^2-10\sqrt{3}\, l\, r-3 r^2-12 r R\right)^2 \left(l^2-3 r^2-6 r R-2 R^2\right)^2}$$

$$12 r^2 \left(2 l^8-2\sqrt{3}\, l^7 r+46 l^6 r^2+2\sqrt{3}\, l^5 r^3-170 l^4 r^4+10\sqrt{3}\, l^3 r^5+42 l^2 r^6+6\sqrt{3}\, l r^7-\right.$$
$$32 l^6 r R+24\sqrt{3}\, l^5 r^2 R-336 l^4 r^3 R-32\sqrt{3}\, l^3 r^4 R+336 l^2 r^5 R+72\sqrt{3}\, l r^6 R-$$
$$7 l^6 R^2-4\sqrt{3}\, l^5 r R^2-217 l^4 r^2 R^2-48\sqrt{3}\, l^3 r^3 R^2+843 l^2 r^4 R^2+308\sqrt{3}\, l r^5 R^2-$$
$$3 r^6 R^2-6\sqrt{3}\, l^5 R^3+134 l^4 r R^3+28\sqrt{3}\, l^3 r^2 R^3+780 l^2 r^3 R^3+530\sqrt{3}\, l r^4 R^3-$$
$$42 r^5 R^3+4 l^4 R^4+116\sqrt{3}\, l^3 r R^4+252 l^2 r^2 R^4+228\sqrt{3}\, l r^3 R^4-216 r^4 R^4+12\sqrt{3}\, l^3 R^5-$$
$$\left.92 l^2 r R^5-196\sqrt{3}\, l r^2 R^5-492 r^3 R^5+16 l^2 R^6-208\sqrt{3}\, l r R^6-480 r^2 R^6-192 r R^7\right)\Big\}$$

$$\left\{\text{X18, 2nd NAPOLEON POINT, X48, CROSSPOINT OF X(1) AND X(63)},\right.$$

$$\frac{1}{\left(3 l^2-10\sqrt{3}\, l\, r-3 r^2-12 r R\right)^2 \left(3 l^2-r^2-6 r R-8 R^2\right)^2}$$

$$12 l^2 \left(6\sqrt{3}\, l^7 r-42 l^6 r^2+10\sqrt{3}\, l^5 r^3+170 l^4 r^4+2\sqrt{3}\, l^3 r^5-46 l^2 r^6-2\sqrt{3}\, l r^7-2 r^8-\right.$$
$$72\sqrt{3}\, l^5 r^2 R+336 l^4 r^3 R+32\sqrt{3}\, l^3 r^4 R-336 l^2 r^5 R-24\sqrt{3}\, l r^6 R-32 r^7 R-3 l^6 R^2-$$
$$20\sqrt{3}\, l^5 r R^2+171 l^4 r^2 R^2+48\sqrt{3}\, l^3 r^3 R^2-889 l^2 r^4 R^2-92\sqrt{3}\, l r^5 R^2-199 r^6 R^2+$$
$$60 l^4 r R^3+104\sqrt{3}\, l^3 r^2 R^3-840 l^2 r^3 R^3-72\sqrt{3}\, l r^4 R^3-596 r^5 R^3+12 l^4 R^4-16\sqrt{3}\, l^3 r R^4-$$
$$\left.112 l^2 r^2 R^4+256\sqrt{3}\, l r^3 R^4-844 r^4 R^4-192 l^2 r R^5+384\sqrt{3}\, l r^2 R^5-416 r^3 R^5+64 r^2 R^6\right)\Big\}$$

$$\left\{\text{X18, 2nd NAPOLEON POINT, X49, CENTER OF SINE-TRIPLE-ANGLE CIRCLE},\right.$$

$$\frac{1}{\left(3 l^2-10\sqrt{3}\, l\, r-3 r^2-12 r R\right)^2 \left(2 l^2-2 r^2-8 r R-7 R^2\right)^2}$$

$$3 \left(8\sqrt{3}\, l^9 r-48 l^8 r^2+464 l^6 r^4-16\sqrt{3}\, l^5 r^5-464 l^4 r^6+48 l^2 r^8+8\sqrt{3}\, l r^9-128\sqrt{3}\, l^7 r^2 R+\right.$$
$$576 l^6 r^3 R+128\sqrt{3}\, l^5 r^4 R-2432 l^4 r^5 R-128\sqrt{3}\, l^3 r^6 R+576 l^2 r^7 R+128\sqrt{3}\, l r^8 R-$$
$$3 l^8 R^2-48\sqrt{3}\, l^7 r R^2+324 l^6 r^2 R^2+336\sqrt{3}\, l^5 r^3 R^2-4466 l^4 r^4 R^2-592\sqrt{3}\, l^3 r^5 R^2+$$
$$2628 l^2 r^6 R^2+816\sqrt{3}\, l r^7 R^2-3 r^8 R^2+48 l^6 r R^3+576\sqrt{3}\, l^5 r^2 R^3-2640 l^4 r^3 R^3-$$
$$896\sqrt{3}\, l^3 r^4 R^3+5712 l^2 r^5 R^3+2624\sqrt{3}\, l r^6 R^3-48 r^7 R^3+12 l^6 R^4+68\sqrt{3}\, l^5 r R^4-$$
$$452 l^4 r^2 R^4-536\sqrt{3}\, l^3 r^3 R^4+5732 l^2 r^4 R^4+4420\sqrt{3}\, l r^5 R^4-300 r^6 R^4-144 l^4 r R^5-$$
$$544\sqrt{3}\, l^3 r^2 R^5+1568 l^2 r^3 R^5+3616\sqrt{3}\, l r^4 R^5-912 r^5 R^5+3 l^4 R^6-48\sqrt{3}\, l^3 r R^6-$$
$$\left.618 l^2 r^2 R^6+1136\sqrt{3}\, l r^3 R^6-1341 r^4 R^6-24 l^2 r R^7+192\sqrt{3}\, l r^2 R^7-744 r^3 R^7+48 r^2 R^8\right)\Big\}$$

$$\Big\{\text{X18, 2nd NAPOLEON POINT, X50, X(74)-CEVA CONJUGATE OF X(184)},$$
$$\Big(12 l^2 r^2 \Big(2 l^{10} - 4\sqrt{3}\, l^9 r + 54 l^8 r^2 + 16\sqrt{3}\, l^7 r^3 - 460 l^6 r^4 + 40\sqrt{3}\, l^5 r^5 + 460 l^4 r^6 + 16\sqrt{3}\, l^3 r^7 -$$
$$54 l^2 r^8 - 4\sqrt{3}\, l r^9 - 2 r^{10} - 40 l^8 r R + 64\sqrt{3}\, l^7 r^2 R - 608 l^6 r^3 R - 192\sqrt{3}\, l^5 r^4 R + 2448 l^4 r^5 R +$$
$$192\sqrt{3}\, l^3 r^6 R - 608 l^2 r^7 R - 64\sqrt{3}\, l r^8 R - 40 r^9 R - 11 l^8 R^2 + 16\sqrt{3}\, l^7 r R^2 - 284 l^6 r^2 R^2 -$$
$$240\sqrt{3}\, l^5 r^3 R^2 + 4254 l^4 r^4 R^2 + 624\sqrt{3}\, l^3 r^5 R^2 - 2716 l^2 r^6 R^2 - 400\sqrt{3}\, l r^7 R^2 - 331 r^8 R^2 +$$
$$176 l^6 r R^3 - 192\sqrt{3}\, l^5 r^2 R^3 + 3376 l^4 r^3 R^3 + 640\sqrt{3}\, l^3 r^4 R^3 - 6192 l^2 r^5 R^3 - 1216\sqrt{3}\, l r^6 R^3 -$$
$$1456 r^7 R^3 + 12 l^6 R^4 - 12\sqrt{3}\, l^5 r R^4 + 1212 l^4 r^2 R^4 + 72\sqrt{3}\, l^3 r^3 R^4 - 7964 l^2 r^4 R^4 -$$
$$1804\sqrt{3}\, l r^5 R^4 - 3628 r^6 R^4 - 144 l^4 r R^5 + 96\sqrt{3}\, l^3 r^2 R^5 - 6112 l^2 r^3 R^5 - 1120\sqrt{3}\, l r^4 R^5 -$$
$$5008 r^5 R^5 + 9 l^4 R^6 - 2142 l^2 r^2 R^6 - 192\sqrt{3}\, l r^3 R^6 - 3383 r^4 R^6 - 72 l^2 r R^7 - 696 r^3 R^7 + 144 r^2 R^8\Big)\Big) \Big/$$
$$\Big(\Big(3 l^2 - 10\sqrt{3}\, l r - 3 r^2 - 12 r R\Big)^2 \Big(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 3 l^2 R^2 + 19 r^2 R^2 + 12 r R^3\Big)^2\Big)\Big\}$$

$$\Big\{\text{X18, 2nd NAPOLEON POINT, X51, CENTROID OF ORTHIC TRIANGLE},$$
$$-\frac{1}{12 R^2 \Big(3 l^2 - 10\sqrt{3}\, l r - 3 r^2 - 12 r R\Big)^2}\Big(3 l^8 + 4\sqrt{3}\, l^7 r - 92 l^6 r^2 - 316\sqrt{3}\, l^5 r^3 + 1218 l^4 r^4 +$$
$$316\sqrt{3}\, l^3 r^5 - 92 l^2 r^6 - 4\sqrt{3}\, l r^7 + 3 r^8 - 48 l^6 r R - 48\sqrt{3}\, l^5 r^2 R + 784 l^4 r^3 R +$$
$$1312\sqrt{3}\, l^3 r^4 R - 784 l^2 r^5 R - 48\sqrt{3}\, l r^6 R + 48 r^7 R - 12 l^6 R^2 - 16\sqrt{3}\, l^5 r R^2 + 20 l^4 r^2 R^2 +$$
$$1568\sqrt{3}\, l^3 r^3 R^2 - 1588 l^2 r^4 R^2 - 208\sqrt{3}\, l r^5 R^2 + 300 r^6 R^2 + 144 l^4 r R^3 + 128\sqrt{3}\, l^3 r^2 R^3 +$$
$$160 l^2 r^3 R^3 - 384\sqrt{3}\, l r^4 R^3 + 912 r^5 R^3 + 576 l^2 r^2 R^4 - 256\sqrt{3}\, l r^3 R^4 + 1344 r^4 R^4 + 768 r^3 R^5\Big)\Big\}$$

$$\Big\{\text{X18, 2nd NAPOLEON POINT, X52,}$$
$$\text{ORTHOCENTER OF ORTHIC TRIANGLE, } \frac{1}{4 R^2 \Big(3 l^2 - 10\sqrt{3}\, l r - 3 r^2 - 12 r R\Big)^2}$$
$$3\Big(3 l^8 - 28\sqrt{3}\, l^7 r + 132 l^6 r^2 + 292\sqrt{3}\, l^5 r^3 - 1150 l^4 r^4 - 292\sqrt{3}\, l^3 r^5 + 132 l^2 r^6 + 28\sqrt{3}\, l r^7 + 3 r^8 -$$
$$48 l^6 r R + 336\sqrt{3}\, l^5 r^2 R - 1008 l^4 r^3 R - 1504\sqrt{3}\, l^3 r^4 R + 1008 l^2 r^5 R + 336\sqrt{3}\, l r^6 R + 48 r^7 R -$$
$$12 l^6 R^2 + 104\sqrt{3}\, l^5 r R^2 - 140 l^4 r^2 R^2 - 1968\sqrt{3}\, l^3 r^3 R^2 + 2156 l^2 r^4 R^2 + 1448\sqrt{3}\, l r^5 R^2 + 300 r^6 R^2 +$$
$$144 l^4 r R^3 - 832\sqrt{3}\, l^3 r^2 R^3 + 800 l^2 r^3 R^3 + 2624\sqrt{3}\, l r^4 R^3 + 912 r^5 R^3 + 12 l^4 R^4 - 96\sqrt{3}\, l^3 r R^4 -$$
$$168 l^2 r^2 R^4 + 1760\sqrt{3}\, l r^3 R^4 + 1356 r^4 R^4 - 96 l^2 r R^5 + 384\sqrt{3}\, l r^2 R^5 + 864 r^3 R^5 + 192 r^2 R^6\Big)\Big\}$$

$$\Big\{\text{X18, 2nd NAPOLEON POINT, X53, SYMMEDIAN POINT OF ORTHIC TRIANGLE},$$
$$\Big(12 l^2 r^2 \Big(2 l^{10} + 2\sqrt{3}\, l^9 r - 18 l^8 r^2 + 8\sqrt{3}\, l^7 r^3 + 44 l^6 r^4 - 116\sqrt{3}\, l^5 r^5 - 44 l^4 r^6 +$$
$$8\sqrt{3}\, l^3 r^7 + 18 l^2 r^8 + 2\sqrt{3}\, l r^9 - 2 r^{10} - 40 l^8 r R - 32\sqrt{3}\, l^7 r^2 R + 256 l^6 r^3 R -$$
$$32\sqrt{3}\, l^5 r^4 R - 432 l^4 r^5 R + 32\sqrt{3}\, l^3 r^6 R + 256 l^2 r^7 R + 32\sqrt{3}\, l r^8 R - 40 r^9 R -$$
$$15 l^8 R^2 - 16\sqrt{3}\, l^7 r R^2 + 24 l^6 r^2 R^2 + 416\sqrt{3}\, l^5 r^3 R^2 - 530 l^4 r^4 R^2 - 352\sqrt{3}\, l^3 r^5 R^2 +$$
$$1048 l^2 r^6 R^2 + 208\sqrt{3}\, l r^7 R^2 - 335 r^8 R^2 + 240 l^6 r R^3 + 192\sqrt{3}\, l^5 r^2 R^3 + 848 l^4 r^3 R^3 -$$
$$1600\sqrt{3}\, l^3 r^4 R^3 + 944 l^2 r^5 R^3 + 704\sqrt{3}\, l r^6 R^3 - 1520 r^7 R^3 + 24 l^6 R^4 + 32\sqrt{3}\, l^5 r R^4 +$$
$$1240 l^4 r^2 R^4 - 1792\sqrt{3}\, l^3 r^3 R^4 - 2936 l^2 r^4 R^4 + 1312\sqrt{3}\, l r^5 R^4 - 4024 r^6 R^4 -$$
$$288 l^4 r R^5 - 256\sqrt{3}\, l^3 r^2 R^5 - 6592 l^2 r^3 R^5 + 1280\sqrt{3}\, l r^4 R^5 - 6176 r^5 R^5 + 16 l^4 R^6 -$$
$$3680 l^2 r^2 R^6 + 512\sqrt{3}\, l r^3 R^6 - 4976 r^4 R^6 - 128 l^2 r R^7 - 1408 r^3 R^7 + 256 r^2 R^8\Big)\Big) \Big/$$
$$\Big(\Big(3 l^2 - 10\sqrt{3}\, l r - 3 r^2 - 12 r R\Big)^2 \Big(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 4 l^2 R^2 + 20 r^2 R^2 + 16 r R^3\Big)^2\Big)\Big\}$$

$$\left\{X18,\ 2nd\ NAPOLEON\ POINT,\ X54,\ KosnitaPoint,\ \frac{1}{\left(3 l^2-10\sqrt{3}\, l\, r-3 r^2-12 r R\right)^2\left(2 l^2-2 r^2-8 r R-5 R^2\right)^2}\right.$$

$$\left.3\left(8\sqrt{3}\, l^9 r-48 l^8 r^2+464 l^6 r^4-16\sqrt{3}\, l^5 r^5-464 l^4 r^6+48 l^2 r^8+8\sqrt{3}\, l\, r^9-128\sqrt{3}\, l^7 r^2 R+576 l^6 r^3 R+128\sqrt{3}\, l^5 r^4 R-2432 l^4 r^5 R-128\sqrt{3}\, l^3 r^6 R+576 l^2 r^7 R+128\sqrt{3}\, l\, r^8 R-56\sqrt{3}\, l^7 r R^2+368 l^6 r^2 R^2+456\sqrt{3}\, l^5 r^3 R^2-4640 l^4 r^4 R^2-712\sqrt{3}\, l^3 r^5 R^2+2672 l^2 r^6 R^2+824\sqrt{3}\, l\, r^7 R^2+672\sqrt{3}\, l^5 r^2 R^3-2944 l^4 r^3 R^3-1472\sqrt{3}\, l^3 r^4 R^3+6016 l^2 r^5 R^3+2720\sqrt{3}\, l\, r^6 R^3-3 l^6 R^4+126\sqrt{3}\, l^5 r R^4-611 l^4 r^2 R^4-1540\sqrt{3}\, l^3 r^3 R^4+6499 l^2 r^4 R^4+4862\sqrt{3}\, l\, r^5 R^4+3 r^6 R^4+36 l^4 r R^5-1008\sqrt{3}\, l^3 r^2 R^5+2408 l^2 r^3 R^5+4592\sqrt{3}\, l\, r^4 R^5+36 r^5 R^5+12 l^4 R^6-120\sqrt{3}\, l^3 r R^6-168 l^2 r^2 R^6+2136\sqrt{3}\, l\, r^3 R^6+156 r^4 R^6-96 l^2 r R^7+480\sqrt{3}\, l\, r^2 R^7+288 r^3 R^7+192 r^2 R^8\right)\right\}$$

$$\left\{X18,\ 2nd\ NAPOLEON\ POINT,\ X55,\ INSIMILICENTER(CIRCUMCIRCLE,\ INCIRCLE),\ \frac{1}{(r+R)^2\left(3 l^2-10\sqrt{3}\, l\, r-3 r^2-12 r R\right)^2}\right.$$

$$\left.3 r^2\left(4\sqrt{3}\, l^5 r-32 l^4 r^2+8\sqrt{3}\, l^3 r^3+32 l^2 r^4+4\sqrt{3}\, l\, r^5+4\sqrt{3}\, l^5 R-24 l^4 r R-16\sqrt{3}\, l^3 r^2 R+232 l^2 r^3 R+44\sqrt{3}\, l\, r^4 R+17 l^4 R^2-76\sqrt{3}\, l^3 r R^2+350 l^2 r^2 R^2+148\sqrt{3}\, l\, r^3 R^2-3 r^4 R^2+8\sqrt{3}\, l^3 R^3-188 l^2 r R^3+96\sqrt{3}\, l\, r^2 R^3-36 r^3 R^3+16 l^2 R^4-192\sqrt{3}\, l\, r R^4-144 r^2 R^4-192 r R^5\right)\right\}$$

$$\left\{X18,\ 2nd\ NAPOLEON\ POINT,\ X56,\ EXSIMILICENTER(CIRCUMCIRCLE,\ INCIRCLE),\ \frac{1}{(r-R)^2\left(3 l^2-10\sqrt{3}\, l\, r-3 r^2-12 r R\right)^2}\right.$$

$$\left.3 r^2\left(4\sqrt{3}\, l^5 r-32 l^4 r^2+8\sqrt{3}\, l^3 r^3+32 l^2 r^4+4\sqrt{3}\, l\, r^5-4\sqrt{3}\, l^5 R+24 l^4 r R-48\sqrt{3}\, l^3 r^2 R+24 l^2 r^3 R+20\sqrt{3}\, l\, r^4 R+5 l^4 R^2+44\sqrt{3}\, l^3 r R^2-2 l^2 r^2 R^2+44\sqrt{3}\, l\, r^3 R^2+9 r^4 R^2+16\sqrt{3}\, l^3 R^3-140 l^2 r R^3+56\sqrt{3}\, l\, r^2 R^3+60 r^3 R^3+16 l^2 R^4-224\sqrt{3}\, l\, r R^4+48 r^2 R^4-192 r R^5\right)\right\}$$

$$\left\{X18,\ 2nd\ NAPOLEON\ POINT,\ X57,\ ISOGONAL\ CONJUGATE\ OF\ X(9),\ -\frac{1}{(r-2R)^2\left(3 l^2-10\sqrt{3}\, l\, r-3 r^2-12 r R\right)^2}\right.$$

$$\left.12 r^2\left(-2\sqrt{3}\, l^5 r+18 l^4 r^2-2\sqrt{3}\, l^3 r^3+2 l^2 r^4+4\sqrt{3}\, l^5 R-29 l^4 r R+7\sqrt{3}\, l^3 r^2 R+27 l^2 r^3 R+3\sqrt{3}\, l\, r^4 R-5 l^4 R^2-58\sqrt{3}\, l^3 r R^2+126 l^2 r^2 R^2+38\sqrt{3}\, l\, r^3 R^2+3 r^4 R^2-16\sqrt{3}\, l^3 R^3+124 l^2 r R^3+160\sqrt{3}\, l\, r^2 R^3+36 r^3 R^3-16 l^2 R^4+224\sqrt{3}\, l\, r R^4+144 r^2 R^4+192 r R^5\right)\right\}$$

$$\left\{X18,\ 2nd\ NAPOLEON\ POINT,\ X58,\ ISOGONAL\ CONJUGATE\ OF\ X(10),\ \frac{1}{\left(3 l^2-10\sqrt{3}\, l\, r-3 r^2-12 r R\right)^2\left(l^2-3 r^2-4 r R\right)^2}\right.$$

$$\left.12 r^2\left(2 l^8-2\sqrt{3}\, l^7 r+46 l^6 r^2+2\sqrt{3}\, l^5 r^3-170 l^4 r^4+10\sqrt{3}\, l^3 r^5+42 l^2 r^6+6\sqrt{3}\, l\, r^7-24 l^6 r R+24\sqrt{3}\, l^5 r^2 R-208 l^4 r^3 R-48\sqrt{3}\, l^3 r^4 R+200 l^2 r^5 R+56\sqrt{3}\, l\, r^6 R+l^6 R^2+2\sqrt{3}\, l^5 r R^2-227 l^4 r^2 R^2-4\sqrt{3}\, l^3 r^3 R^2+223 l^2 r^4 R^2+186\sqrt{3}\, l\, r^5 R^2+3 r^6 R^2-8 l^4 r R^3-16\sqrt{3}\, l^3 r^2 R^3-48 l^2 r^3 R^3+240\sqrt{3}\, l\, r^4 R^3+24 r^5 R^3+16 l^2 r^2 R^4+32\sqrt{3}\, l\, r^3 R^4+48 r^4 R^4\right)\right\}$$

$$\{X18,\ 2nd\ NAPOLEON\ POINT,\ X59,\ ISOGONAL\ CONJUGATE\ OF\ X(11),$$
$$\Big(3r^2\Big(4\sqrt{3}\,l^9-24\,l^8\,r+232\,l^6\,r^3-8\sqrt{3}\,l^5\,r^4-232\,l^4\,r^5+24\,l^2\,r^7+4\sqrt{3}\,l\,r^8-8\,l^8\,R-76\sqrt{3}\,l^7\,r\,R+$$
$$240\,l^6\,r^2\,R+52\sqrt{3}\,l^5\,r^3\,R-1416\,l^4\,r^4\,R-52\sqrt{3}\,l^3\,r^5\,R+384\,l^2\,r^6\,R+76\sqrt{3}\,l\,r^7\,R-42\sqrt{3}\,l^7\,R^2+$$
$$388\,l^6\,r\,R^2+366\sqrt{3}\,l^5\,r^2\,R^2-2936\,l^4\,r^3\,R^2-422\sqrt{3}\,l^3\,r^4\,R^2+2308\,l^2\,r^5\,R^2+578\sqrt{3}\,l\,r^6\,R^2+$$
$$45\,l^6\,R^3+702\sqrt{3}\,l^5\,r\,R^3-1619\,l^4\,r^2\,R^3-1300\sqrt{3}\,l^3\,r^3\,R^3+6211\,l^2\,r^4\,R^3+2222\sqrt{3}\,l\,r^5\,R^3+$$
$$3\,r^6\,R^3+168\sqrt{3}\,l^5\,R^4-1532\,l^4\,r\,R^4-2392\sqrt{3}\,l^3\,r^2\,R^4+6560\,l^2\,r^3\,R^4+4512\sqrt{3}\,l\,r^4\,R^4+$$
$$60\,r^5\,R^4-2528\sqrt{3}\,l^3\,r\,R^5+1120\,l^2\,r^2\,R^5+4928\sqrt{3}\,l\,r^3\,R^5+480\,r^4\,R^5-256\sqrt{3}\,l^3\,R^6+$$
$$1024\,l^2\,r\,R^6+4096\sqrt{3}\,l\,r^2\,R^6+1920\,r^3\,R^6-256\,l^2\,R^7+3584\sqrt{3}\,l\,r\,R^7+3840\,r^2\,R^7+3072\,r\,R^8\Big)\Big)\Big/$$
$$\Big((2r-R)\Big(3l^2-10\sqrt{3}\,l\,r-3r^2-12\,r\,R\Big)^2\Big(l^2-r^2-5\,r\,R-4R^2\Big)^2\Big)\Big\}$$

$$\{X18,\ 2nd\ NAPOLEON\ POINT,\ X60,\ ISOGONAL\ CONJUGATE\ OF\ X(12),$$
$$\Big(3r^2\Big(8\sqrt{3}\,l^9\,r-48\,l^8\,r^2+464\,l^6\,r^4-16\sqrt{3}\,l^5\,r^5-464\,l^4\,r^6+48\,l^2\,r^8+8\sqrt{3}\,l\,r^9+$$
$$4\sqrt{3}\,l^9\,R-8\,l^8\,r\,R-104\sqrt{3}\,l^7\,r^2\,R+904\,l^6\,r^3\,R+144\sqrt{3}\,l^5\,r^4\,R-2264\,l^4\,r^5\,R-$$
$$152\sqrt{3}\,l^3\,r^6\,R+408\,l^2\,r^7\,R+108\sqrt{3}\,l\,r^8\,R+8\,l^8\,R^2-88\sqrt{3}\,l^7\,r\,R^2+376\,l^6\,r^2\,R^2+$$
$$280\sqrt{3}\,l^5\,r^3\,R^2-4520\,l^4\,r^4\,R^2-584\sqrt{3}\,l^3\,r^5\,R^2+1256\,l^2\,r^6\,R^2+584\sqrt{3}\,l\,r^7\,R^2-$$
$$10\sqrt{3}\,l^7\,R^3-22\,l^6\,r\,R^3+274\sqrt{3}\,l^5\,r^2\,R^3-4050\,l^4\,r^3\,R^3-798\sqrt{3}\,l^3\,r^4\,R^3+1726\,l^2\,r^5\,R^3+$$
$$1606\sqrt{3}\,l\,r^6\,R^3-6\,r^7\,R^3+7\,l^6\,R^4+122\sqrt{3}\,l^5\,r\,R^4-1265\,l^4\,r^2\,R^4-140\sqrt{3}\,l^3\,r^3\,R^4+$$
$$1097\,l^2\,r^4\,R^4+2362\sqrt{3}\,l\,r^5\,R^4-63\,r^6\,R^4-92\,l^4\,r\,R^5+248\sqrt{3}\,l^3\,r^2\,R^5+352\,l^2\,r^3\,R^5+$$
$$1816\sqrt{3}\,l\,r^4\,R^5-228\,r^5\,R^5+16\,l^2\,r^2\,R^6+576\sqrt{3}\,l\,r^3\,R^6-336\,r^4\,R^6-192\,r^3\,R^7\Big)\Big)\Big/$$
$$\Big(\Big(3l^2-10\sqrt{3}\,l\,r-3r^2-12\,r\,R\Big)^2\Big(2\,l^2\,r-2\,r^3+l^2\,R-7\,r^2\,R-7\,r\,R^2\Big)^2\Big)\Big\}$$

$$\{X18,\ 2nd\ NAPOLEON\ POINT,\ X61,\ ISOGONAL\ CONJUGATE\ OF\ X(17),$$
$$\Big(144\,l^2\,r^2\Big(3\,l^6-2\sqrt{3}\,l^5\,r+19\,l^4\,r^2+28\sqrt{3}\,l^3\,r^3-19\,l^2\,r^4-2\sqrt{3}\,l\,r^5-3\,r^6-36\,l^4\,r\,R+16\sqrt{3}\,l^3\,r^2\,R-$$
$$40\,l^2\,r^3\,R-16\sqrt{3}\,l\,r^4\,R-36\,r^5\,R-144\,l^2\,r^2\,R^2-32\sqrt{3}\,l\,r^3\,R^2-144\,r^4\,R^2-192\,r^3\,R^3\Big)\Big)\Big/$$
$$\Big(\Big(3l^2-10\sqrt{3}\,l\,r-3r^2-12\,r\,R\Big)^2\Big(3\,l^2+2\sqrt{3}\,l\,r-3r^2-12\,r\,R\Big)^2\Big)\Big\}$$

$$\{X18,\ 2nd\ NAPOLEON\ POINT,\ X62,\ ISOGONAL\ CONJUGATE\ OF\ X(18),\ \Big(144\,l^2\,r^2\Big(l^2+2\sqrt{3}\,l\,r-r^2-4\,r\,R\Big)$$
$$\Big(4\sqrt{3}\,l^3\,r-8\,l^2\,r^2-4\sqrt{3}\,l\,r^3-16\sqrt{3}\,l\,r^2\,R+3\,l^2\,R^2-18\sqrt{3}\,l\,r\,R^2-3\,r^2\,R^2-12\,r\,R^3\Big)\Big)\Big/$$
$$\Big(\Big(3l^2-10\sqrt{3}\,l\,r-3r^2-12\,r\,R\Big)^2\Big(3\,l^2-2\sqrt{3}\,l\,r-3r^2-12\,r\,R\Big)^2\Big)\Big\}$$

$$\{X18,\ 2nd\ NAPOLEON\ POINT,\ X63,$$
$$ISOGONAL\ CONJUGATE\ OF\ X(19),\ -\frac{1}{(r+R)^2\Big(3\,l^2-10\sqrt{3}\,l\,r-3r^2-12\,r\,R\Big)^2}$$
$$3\Big(-8\sqrt{3}\,l^5\,r^3+72\,l^4\,r^4-8\sqrt{3}\,l^3\,r^5+8\,l^2\,r^6-6\,l^6\,r\,R+26\sqrt{3}\,l^5\,r^2\,R-64\,l^4\,r^3\,R-$$
$$32\sqrt{3}\,l^3\,r^4\,R+102\,l^2\,r^5\,R+6\sqrt{3}\,l\,r^6\,R-3\,l^6\,R^2+14\sqrt{3}\,l^5\,r\,R^2+33\,l^4\,r^2\,R^2-$$
$$264\sqrt{3}\,l^3\,r^3\,R^2+423\,l^2\,r^4\,R^2+74\sqrt{3}\,l\,r^5\,R^2+3\,r^6\,R^2+60\,l^4\,r\,R^3-240\sqrt{3}\,l^3\,r^2\,R^3+$$
$$448\,l^2\,r^3\,R^3+304\sqrt{3}\,l\,r^4\,R^3+36\,r^5\,R^3-208\,l^2\,r^2\,R^4+416\sqrt{3}\,l\,r^3\,R^4+144\,r^4\,R^4+192\,r^3\,R^5\Big)\Big\}$$

$$\Big\{\text{X18, 2nd NAPOLEON POINT, X64, ISOGONAL CONJUGATE OF X(20)},$$

$$\frac{1}{(l-r-2R)^2\,(l+r+2R)^2\,\left(3l^2-10\sqrt{3}\,l\,r-3r^2-12\,r\,R\right)^2}$$

$$12\Big(2\sqrt{3}\,l^9 r-18\,l^8 r^2+14\,l^6 r^4-4\sqrt{3}\,l^5 r^5-14\,l^4 r^6+18\,l^2 r^8+2\sqrt{3}\,l\,r^9-32\sqrt{3}\,l^7 r^2 R+$$
$$216\,l^6 r^3 R+32\sqrt{3}\,l^5 r^4 R-272\,l^4 r^5 R-32\sqrt{3}\,l^3 r^6 R+216\,l^2 r^7 R+32\sqrt{3}\,l\,r^8 R+9\,l^8 R^2-$$
$$80\sqrt{3}\,l^7 r R^2+437\,l^6 r^2 R^2+384\sqrt{3}\,l^5 r^3 R^2-1496\,l^4 r^4 R^2-448\sqrt{3}\,l^3 r^5 R^2+1301\,l^2 r^6 R^2+$$
$$272\sqrt{3}\,l\,r^7 R^2+9\,r^8 R^2-144\,l^6 r R^3+960\sqrt{3}\,l^5 r^2 R^3-3352\,l^4 r^3 R^3-2240\sqrt{3}\,l^3 r^4 R^3+$$
$$4504\,l^2 r^5 R^3+1472\sqrt{3}\,l\,r^6 R^3+144\,r^7 R^3-84\,l^6 R^4+624\sqrt{3}\,l^5 r R^4-2204\,l^4 r^2 R^4-$$
$$5104\sqrt{3}\,l^3 r^3 R^4+8908\,l^2 r^4 R^4+4976\sqrt{3}\,l\,r^5 R^4+948\,r^6 R^4+1008\,l^4 r R^5-4992\sqrt{3}\,l^3 r^2 R^5+$$
$$8960\,l^2 r^3 R^5+10\,112\sqrt{3}\,l\,r^4 R^5+3312\,r^5 R^5+192\,l^4 R^6-1344\sqrt{3}\,l^3 r R^6+2496\,l^2 r^2 R^6+$$
$$11\,328\sqrt{3}\,l\,r^3 R^6+6528\,r^4 R^6-1536\,l^2 r R^7+5376\sqrt{3}\,l\,r^2 R^7+6912\,r^3 R^7+3072\,r^2 R^8\Big)\Big\}$$

$$\Big\{\text{X18, 2nd NAPOLEON POINT, X65, ORTHOCENTER OF THE INTOUCH TRIANGLE},$$

$$-\Big(\Big(3r^2\Big(4\sqrt{3}\,l^5-34\,l^4 r-40\sqrt{3}\,l^3 r^2+148\,l^2 r^3+36\sqrt{3}\,l\,r^4+6\,r^5-5\,l^4 R-72\sqrt{3}\,l^3 r R+242\,l^2 r^2 R+$$
$$224\sqrt{3}\,l\,r^3 R+63\,r^4 R-16\sqrt{3}\,l^3 R^2+108\,l^2 r R^2+376\sqrt{3}\,l\,r^2 R^2+228\,r^3 R^2-16\,l^2 R^3+$$
$$224\sqrt{3}\,l\,r R^3+336\,r^2 R^3+192\,r R^4\Big)\Big)\Big/\Big(R\left(3l^2-10\sqrt{3}\,l\,r-3r^2-12\,r\,R\right)^2\Big)\Big)\Big\}$$

$$\Big\{\text{X18, 2nd NAPOLEON POINT, X66, ISOGONAL CONJUGATE OF X(22)},$$

$$\Big(3\Big(2\sqrt{3}\,l^{13} r+12\,l^{12} r^2-100\sqrt{3}\,l^{11} r^3+180\,l^{10} r^4+382\sqrt{3}\,l^9 r^5-600\,l^8 r^6-568\sqrt{3}\,l^7 r^7+600\,l^6 r^8+$$
$$382\sqrt{3}\,l^5 r^9-180\,l^4 r^{10}-100\sqrt{3}\,l^3 r^{11}-12\,l^2 r^{12}+2\sqrt{3}\,l\,r^{13}-48\sqrt{3}\,l^{11} r^2 R-240\,l^{10} r^3 R+$$
$$1648\sqrt{3}\,l^9 r^4 R-1920\,l^8 r^5 R-4704\sqrt{3}\,l^7 r^6 R+4320\,l^6 r^7 R+4704\sqrt{3}\,l^5 r^8 R-1920\,l^4 r^9 R-$$
$$1648\sqrt{3}\,l^3 r^{10} R-240\,l^2 r^{11} R+48\sqrt{3}\,l\,r^{12} R-3\,l^{12} R^2+4\sqrt{3}\,l^{11} r R^2-246\,l^{10} r^2 R^2+$$
$$1276\sqrt{3}\,l^9 r^3 R^2+1091\,l^8 r^4 R^2-12\,776\sqrt{3}\,l^7 r^5 R^2+7916\,l^6 r^6 R^2+22\,184\sqrt{3}\,l^5 r^7 R^2-$$
$$6589\,l^4 r^8 R^2-11\,164\sqrt{3}\,l^3 r^9 R^2-2166\,l^2 r^{10} R^2+476\sqrt{3}\,l\,r^{11} R^2-3\,r^{12} R^2+72\,l^{10} r R^3-$$
$$80\sqrt{3}\,l^9 r^2 R^3+3864\,l^8 r^3 R^3-12\,032\sqrt{3}\,l^7 r^4 R^3-4912\,l^6 r^5 R^3+49\,312\sqrt{3}\,l^5 r^6 R^3-$$
$$2768\,l^4 r^7 R^3-39\,680\sqrt{3}\,l^3 r^8 R^3-11\,544\,l^2 r^9 R^3+2480\sqrt{3}\,l\,r^{10} R^3-72\,r^{11} R^3+12\,l^{10} R^4-$$
$$48\sqrt{3}\,l^9 r R^4+404\,l^8 r^2 R^4-1824\sqrt{3}\,l^7 r^3 R^4-20\,776\,l^6 r^4 R^4+49\,952\sqrt{3}\,l^5 r^5 R^4+30\,600\,l^4 r^6 R^4-$$
$$77\,600\sqrt{3}\,l^3 r^7 R^4-38\,948\,l^2 r^8 R^4+6992\sqrt{3}\,l\,r^9 R^4-732\,r^{10} R^4-240\,l^8 r R^5+768\sqrt{3}\,l^7 r^2 R^5-$$
$$9408\,l^6 r^3 R^5+16\,384\sqrt{3}\,l^5 r^4 R^5+62\,560\,l^4 r^5 R^5-78\,336\sqrt{3}\,l^3 r^6 R^5-81\,600\,l^2 r^7 R^5+$$
$$8960\sqrt{3}\,l\,r^8 R^5-4080\,r^9 R^5+688\,l^6 r^2 R^6-1728\sqrt{3}\,l^5 r^3 R^6+37\,216\,l^4 r^4 R^6-31\,040\sqrt{3}\,l^3 r^5 R^6-$$
$$96\,848\,l^2 r^6 R^6-1536\sqrt{3}\,l\,r^7 R^6-13\,440\,r^8 R^6+2176\,l^4 r^3 R^7+768\sqrt{3}\,l^3 r^4 R^7-51\,840\,l^2 r^5 R^7-$$
$$16\,384\sqrt{3}\,l\,r^6 R^7-26\,112\,r^7 R^7-4352\,l^2 r^4 R^8-12\,288\sqrt{3}\,l\,r^5 R^8-27\,648\,r^6 R^8-12\,288\,r^5 R^9\Big)\Big)\Big/$$
$$\Big((l-r-2R)^2\,(l+r+2R)^2\left(3l^2-10\sqrt{3}\,l\,r-3r^2-12\,r\,R\right)^2\left(l^2-r^2-4\,r\,R\right)^2\Big)\Big\}$$

$$\Big\{\text{X18, 2nd NAPOLEON POINT, X67, ISOGONAL CONJUGATE OF X(23)},$$

$$\Big(9\left(l^2-2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)\Big(l^{10}-2\sqrt{3}\,l^9 r+15\,l^8 r^2-32\sqrt{3}\,l^7 r^3-50\,l^6 r^4+68\sqrt{3}\,l^5 r^5+$$
$$50\,l^4 r^6-32\sqrt{3}\,l^3 r^7-15\,l^2 r^8-2\sqrt{3}\,l\,r^9-r^{10}-20\,l^8 r R+32\sqrt{3}\,l^7 r^2 R-160\,l^6 r^3 R+$$
$$224\sqrt{3}\,l^5 r^4 R+360\,l^4 r^5 R-224\sqrt{3}\,l^3 r^6 R-160\,l^2 r^7 R-32\sqrt{3}\,l\,r^8 R-20\,r^9 R-4\,l^8 R^2+$$
$$8\sqrt{3}\,l^7 r R^2-16\,l^6 r^2 R^2+104\sqrt{3}\,l^5 r^3 R^2+840\,l^4 r^4 R^2-552\sqrt{3}\,l^3 r^5 R^2-656\,l^2 r^6 R^2-$$
$$200\sqrt{3}\,l\,r^7 R^2-164\,r^8 R^2+64\,l^6 r R^3-96\sqrt{3}\,l^5 r^2 R^3+704\,l^4 r^3 R^3-576\sqrt{3}\,l^3 r^4 R^3-$$
$$1344\,l^2 r^5 R^3-608\sqrt{3}\,l\,r^6 R^3-704\,r^7 R^3+36\,l^4 r^2 R^4-216\sqrt{3}\,l^3 r^3 R^4-1444\,l^2 r^4 R^4-$$
$$896\sqrt{3}\,l\,r^5 R^4-1664\,r^6 R^4-656\,l^2 r^3 R^5-512\sqrt{3}\,l\,r^4 R^5-2048\,r^5 R^5-1024\,r^4 R^6\Big)\Big)\Big/$$
$$\Big(\left(3l^2-10\sqrt{3}\,l\,r-3r^2-12\,r\,R\right)^2\left(l^2-r^2-4\,r\,R\right)^2\left(2l^2-2r^2-8\,r\,R-9R^2\right)\Big)\Big\}$$

$$\left\{\text{X18, 2nd NAPOLEON POINT, X68, PRASOLOV POINT,}\right.$$

$$\frac{1}{(l-r-2R)^2\,(l+r+2R)^2\left(3l^2-10\sqrt{3}\,l\,r-3r^2-12\,r\,R\right)^2}$$

$$3\left(2\sqrt{3}\,l^9 r+12\,l^8 r^2-96\sqrt{3}\,l^7 r^3+204\,l^6 r^4+188\sqrt{3}\,l^5 r^5-204\,l^4 r^6-96\sqrt{3}\,l^3 r^7-12\,l^2 r^8+\right.$$
$$2\sqrt{3}\,l\,r^9-32\sqrt{3}\,l^7 r^2 R-144\,l^6 r^3 R+800\sqrt{3}\,l^5 r^4 R-672\,l^4 r^5 R-800\sqrt{3}\,l^3 r^6 R-$$
$$144\,l^2 r^7 R+32\sqrt{3}\,l\,r^8 R+3\,l^8 R^2-28\sqrt{3}\,l^7 r R^2-132\,l^6 r^2 R^2+964\sqrt{3}\,l^5 r^3 R^2-526\,l^4 r^4 R^2-$$
$$2564\sqrt{3}\,l^3 r^5 R^2-708\,l^2 r^6 R^2+220\sqrt{3}\,l\,r^7 R^2+3\,r^8 R^2-48\,l^6 r R^3+336\sqrt{3}\,l^5 r^2 R^3+$$
$$1104\,l^4 r^3 R^3-3936\sqrt{3}\,l^3 r^4 R^3-1872\,l^2 r^5 R^3+848\sqrt{3}\,l\,r^6 R^3+48\,r^7 R^3-12\,l^6 R^4+72\sqrt{3}\,l^5 r R^4+$$
$$772\,l^4 r^2 R^4-2512\sqrt{3}\,l^3 r^3 R^4-2980\,l^2 r^4 R^4+1928\sqrt{3}\,l\,r^5 R^4+300\,r^6 R^4+144\,l^4 r R^5-$$
$$576\sqrt{3}\,l^3 r^2 R^5-2848\,l^2 r^3 R^5+2368\sqrt{3}\,l\,r^4 R^5+912\,r^5 R^5+12\,l^4 R^6-48\sqrt{3}\,l^3 r R^6-$$
$$\left.\left.1032\,l^2 r^2 R^6+1200\sqrt{3}\,l\,r^3 R^6+1356\,r^4 R^6-96\,l^2 r R^7+192\sqrt{3}\,l\,r^2 R^7+864\,r^3 R^7+192\,r^2 R^8\right)\right\}$$

$$\left\{\text{X18, 2nd NAPOLEON POINT, X69, SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE,}\right.$$

$$\frac{1}{\left(3l^2-10\sqrt{3}\,l\,r-3r^2-12\,r\,R\right)^2\left(l^2-r^2-4\,r\,R\right)^2}$$

$$3\left(l^2-2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)\left(3\,l^8-8\sqrt{3}\,l^7 r+24\,l^6 r^2-56\sqrt{3}\,l^5 r^3-54\,l^4 r^4+56\sqrt{3}\,l^3 r^5+\right.$$
$$24\,l^2 r^6+8\sqrt{3}\,l\,r^7+3\,r^8-48\,l^6 r R+96\sqrt{3}\,l^5 r^2 R-144\,l^4 r^3 R+128\sqrt{3}\,l^3 r^4 R+$$
$$144\,l^2 r^5 R+96\sqrt{3}\,l\,r^6 R+48\,r^7 R-32\,l^4 r^2 R^2+416\sqrt{3}\,l^3 r^3 R^2+320\,l^2 r^4 R^2+$$
$$\left.\left.384\sqrt{3}\,l\,r^5 R^2+288\,r^6 R^2+512\,l^2 r^3 R^3+512\sqrt{3}\,l\,r^4 R^3+768\,r^5 R^3+768\,r^4 R^4\right)\right\}$$

$$\left\{\text{X18, 2nd NAPOLEON POINT, X70, ISOGONAL CONJUGATE OF X(26),}\right.$$

$$\left(3\left(2\sqrt{3}\,l^{13} r+12\,l^{12} r^2-100\sqrt{3}\,l^{11} r^3+180\,l^{10} r^4+382\sqrt{3}\,l^9 r^5-600\,l^8 r^6-568\sqrt{3}\,l^7 r^7+\right.\right.$$
$$600\,l^6 r^8+382\sqrt{3}\,l^5 r^9-180\,l^4 r^{10}-100\sqrt{3}\,l^3 r^{11}-12\,l^2 r^{12}+2\sqrt{3}\,l\,r^{13}-48\sqrt{3}\,l^{11} r^2 R-$$
$$240\,l^{10} r^3 R+1648\sqrt{3}\,l^9 r^4 R-1920\,l^8 r^5 R-4704\sqrt{3}\,l^7 r^6 R+4320\,l^6 r^7 R+4704\sqrt{3}\,l^5 r^8 R-$$
$$1920\,l^4 r^9 R-1648\sqrt{3}\,l^3 r^{10} R-240\,l^2 r^{11} R+48\sqrt{3}\,l\,r^{12} R-20\sqrt{3}\,l^{11} r R^2-240\,l^{10} r^2 R^2+$$
$$1684\sqrt{3}\,l^9 r^3 R^2+320\,l^8 r^4 R^2-13\,880\sqrt{3}\,l^7 r^5 R^2+9440\,l^6 r^6 R^2+23\,288\sqrt{3}\,l^5 r^7 R^2-$$
$$7360\,l^4 r^8 R^2-11\,572\sqrt{3}\,l^3 r^9 R^2-2160\,l^2 r^{10} R^2+500\sqrt{3}\,l\,r^{11} R^2+400\sqrt{3}\,l^9 r^2 R^3+$$
$$3840\,l^8 r^3 R^3-17\,408\sqrt{3}\,l^7 r^4 R^3+1280\,l^6 r^5 R^3+59\,104\sqrt{3}\,l^5 r^6 R^3-8960\,l^4 r^7 R^3-$$
$$45\,056\sqrt{3}\,l^3 r^8 R^3-11\,520\,l^2 r^9 R^3+2960\sqrt{3}\,l\,r^{10} R^3-3\,l^{10} R^4+80\sqrt{3}\,l^9 r R^4+$$
$$1551\,l^8 r^2 R^4-8480\sqrt{3}\,l^7 r^3 R^4-18\,478\,l^6 r^4 R^4+80\,672\sqrt{3}\,l^5 r^5 R^4+15\,918\,l^4 r^6 R^4-$$
$$105\,760\sqrt{3}\,l^3 r^7 R^4-39\,951\,l^2 r^8 R^4+10\,960\sqrt{3}\,l\,r^9 R^4+3\,r^{10} R^4+60\,l^8 r R^5-1280\sqrt{3}\,l^7 r^2 R^5-$$
$$18\,672\,l^6 r^3 R^5+56\,320\sqrt{3}\,l^5 r^4 R^5+61\,864\,l^4 r^5 R^5-152\,064\sqrt{3}\,l^3 r^6 R^5-92\,400\,l^2 r^7 R^5+$$
$$26\,368\sqrt{3}\,l\,r^8 R^5+60\,r^9 R^5+18\,l^8 R^6-156\sqrt{3}\,l^7 r R^6-4648\,l^6 r^2 R^6+17\,188\sqrt{3}\,l^5 r^3 R^6+$$
$$72\,428\,l^4 r^4 R^6-129\,828\sqrt{3}\,l^3 r^5 R^6-140\,776\,l^2 r^6 R^6+41\,628\sqrt{3}\,l\,r^7 R^6+498\,r^8 R^6-$$
$$288\,l^6 r R^7+1872\sqrt{3}\,l^5 r^2 R^7+35\,552\,l^4 r^3 R^7-60\,384\sqrt{3}\,l^3 r^4 R^7-135\,776\,l^2 r^5 R^7+$$
$$42\,832\sqrt{3}\,l\,r^6 R^7+2208\,r^7 R^7-27\,l^6 R^8+118\sqrt{3}\,l^5 r R^8+6373\,l^4 r^2 R^8-12\,820\sqrt{3}\,l^3 r^3 R^8-$$
$$77\,477\,l^2 r^4 R^8+28\,086\sqrt{3}\,l\,r^5 R^8+5595\,r^6 R^8+324\,l^4 r R^9-944\sqrt{3}\,l^3 r^2 R^9-$$
$$23\,512\,l^2 r^3 R^9+10\,928\sqrt{3}\,l\,r^4 R^9+8004\,r^5 R^9+12\,l^4 R^{10}-24\sqrt{3}\,l^3 r R^{10}-3048\,l^2 r^2 R^{10}+$$
$$\left.\left.1912\sqrt{3}\,l\,r^3 R^{10}+5916\,r^4 R^{10}-96\,l^2 r R^{11}+96\sqrt{3}\,l\,r^2 R^{11}+1824\,r^3 R^{11}+192\,r^2 R^{12}\right)\right)\Big/$$
$$\left.\left.\left(3l^2-10\sqrt{3}\,l\,r-3r^2-12\,r\,R\right)^2\left(l^4-2\,l^2 r^2+r^4-8\,l^2 r R+8\,r^3 R-6\,l^2 R^2+22\,r^2 R^2+24\,r\,R^3+7\,R^4\right)^2\right)\right\}$$

$$\left\{\text{X18, 2nd NAPOLEON POINT, X71, ISOGONAL CONJUGATE OF X(27)},\right.$$

$$\frac{1}{\left(3 l^2-10\sqrt{3}\, l\, r-3 r^2-12 r R\right)^2 \left(l^2+r^2+6 r R+8 R^2\right)^2}$$

$$12 l^2 \left(2\sqrt{3}\, l^7 r-18 l^6 r^2+6\sqrt{3}\, l^5 r^3-38 l^4 r^4+6\sqrt{3}\, l^3 r^5-22 l^2 r^6+2\sqrt{3}\, l\, r^7-2 r^8-\right.$$
$$64 l^4 r^3 R+32\sqrt{3}\, l^3 r^4 R-96 l^2 r^5 R+32\sqrt{3}\, l\, r^6 R-32 r^7 R+9 l^6 R^2-40\sqrt{3}\, l^5 r R^2+$$
$$91 l^4 r^2 R^2+128\sqrt{3}\, l^3 r^3 R^2-85 l^2 r^4 R^2+200\sqrt{3}\, l\, r^5 R^2-199 r^6 R^2-84 l^4 r R^3+$$
$$192\sqrt{3}\, l^3 r^2 R^3+120 l^2 r^3 R^3+608\sqrt{3}\, l\, r^4 R^3-596 r^5 R^3+12 l^4 R^4-48\sqrt{3}\, l^3 r R^4+$$
$$\left.\left.80 l^2 r^2 R^4+896\sqrt{3}\, l\, r^3 R^4-844 r^4 R^4-192 l^2 r R^5+512\sqrt{3}\, l\, r^2 R^5-416 r^3 R^5+64 r^2 R^6\right)\right\}$$

$$\left\{\text{X18, 2nd NAPOLEON POINT, X72, ISOGONAL CONJUGATE OF X(28)}, -\frac{1}{R\left(3 l^2-10\sqrt{3}\, l\, r-3 r^2-12 r R\right)^2}\right.$$

$$3\left(-3 l^6 r+16\sqrt{3}\, l^5 r^2-51 l^4 r^3-40\sqrt{3}\, l^3 r^4+131 l^2 r^5+24\sqrt{3}\, l\, r^6+3 r^7-3 l^6 R+14\sqrt{3}\, l^5 r R-\right.$$
$$6 l^4 r^2 R-196\sqrt{3}\, l^3 r^3 R+553 l^2 r^4 R+198\sqrt{3}\, l\, r^5 R+36 r^6 R+60 l^4 r R^2-244\sqrt{3}\, l^3 r^2 R^2+$$
$$\left.\left.496 l^2 r^3 R^2+516\sqrt{3}\, l\, r^4 R^2+156 r^5 R^2-208 l^2 r^2 R^3+432\sqrt{3}\, l\, r^3 R^3+288 r^4 R^3+192 r^3 R^4\right)\right\}$$

$$\left\{\text{X18, 2nd NAPOLEON POINT, X73, CROSSPOINT OF INCENTER AND CIRCUMCENTER},\right.$$

$$\frac{1}{\left(3 l^2-10\sqrt{3}\, l\, r-3 r^2-12 r R\right)^2 \left(l^2+r^2-2 r R-4 R^2\right)^2}$$

$$12 r^2 \left(2 l^8+2\sqrt{3}\, l^7 r+22 l^6 r^2+6\sqrt{3}\, l^5 r^3+38 l^4 r^4+6\sqrt{3}\, l^3 r^5+18 l^2 r^6+2\sqrt{3}\, l\, r^7+\right.$$
$$4\sqrt{3}\, l^7 R-56 l^6 r R-12\sqrt{3}\, l^5 r^2 R-16 l^4 r^3 R-4\sqrt{3}\, l^3 r^4 R+40 l^2 r^5 R+12\sqrt{3}\, l\, r^6 R-$$
$$15 l^6 R^2-64\sqrt{3}\, l^5 r R^2-101 l^4 r^2 R^2-112\sqrt{3}\, l^3 r^3 R^2+19 l^2 r^4 R^2+48\sqrt{3}\, l\, r^5 R^2+$$
$$9 r^6 R^2-32\sqrt{3}\, l^5 R^3+400 l^4 r R^3+48\sqrt{3}\, l^3 r^2 R^3+208 l^2 r^3 R^3+240\sqrt{3}\, l\, r^4 R^3+$$
$$96 r^5 R^3+12 l^4 R^4+448\sqrt{3}\, l^3 r R^4+160 l^2 r^2 R^4+432\sqrt{3}\, l\, r^3 R^4+324 r^4 R^4+64\sqrt{3}\, l^3 R^5-$$
$$\left.\left.464 l^2 r R^5-288\sqrt{3}\, l\, r^2 R^5+240 r^3 R^5+64 l^2 R^6-896\sqrt{3}\, l\, r R^6-576 r^2 R^6-768 r R^7\right)\right\}$$

$$\left\{\text{X18, 2nd NAPOLEON POINT, X74, ISOGONAL CONJUGATE OF EULER INFINITY POINT},\right.$$

$$\frac{1}{\left(3 l^2-10\sqrt{3}\, l\, r-3 r^2-12 r R\right)^2 \left(2 l^2-2 r^2-8 r R-9 R^2\right)}$$

$$3\left(12\sqrt{3}\, l^7 r-104 l^6 r^2+12\sqrt{3}\, l^5 r^3+48 l^4 r^4-12\sqrt{3}\, l^3 r^5-104 l^2 r^6-12\sqrt{3}\, l\, r^7-144\sqrt{3}\, l^5 r^2 R+\right.$$
$$832 l^4 r^3 R+96\sqrt{3}\, l^3 r^4 R-832 l^2 r^5 R-144\sqrt{3}\, l\, r^6 R+27 l^6 R^2-246\sqrt{3}\, l^5 r R^2+1307 l^4 r^2 R^2+$$
$$1044\sqrt{3}\, l^3 r^3 R^2-2971 l^2 r^4 R^2-822\sqrt{3}\, l\, r^5 R^2-27 r^6 R^2-324 l^4 r R^3+1968\sqrt{3}\, l^3 r^2 R^3-$$
$$4904 l^2 r^3 R^3-2736\sqrt{3}\, l\, r^4 R^3-324 r^5 R^3-108 l^4 R^4+792\sqrt{3}\, l^3 r R^4-2520 l^2 r^2 R^4-$$
$$\left.\left.4728\sqrt{3}\, l\, r^3 R^4-1404 r^4 R^4+864 l^2 r R^5-3168\sqrt{3}\, l\, r^2 R^5-2592 r^3 R^5-1728 r^2 R^6\right)\right\}$$

$$\left\{\text{X18, 2nd NAPOLEON POINT, X75, ISOTOMIC CONJUGATE OF INCENTER},\right.$$

$$\frac{1}{\left(3 l^2-10\sqrt{3}\, l\, r-3 r^2-12 r R\right)^2 \left(l^2+r^2+4 r R\right)^2}$$

$$3\left(3 l^{10}-14\sqrt{3}\, l^9 r+57 l^8 r^2-24\sqrt{3}\, l^7 r^3+54 l^6 r^4-20\sqrt{3}\, l^5 r^5-54 l^4 r^6-24\sqrt{3}\, l^3 r^7-57 l^2 r^8-\right.$$
$$14\sqrt{3}\, l\, r^9-3 r^{10}-60 l^8 r R+272\sqrt{3}\, l^7 r^2 R-832 l^6 r^3 R-448\sqrt{3}\, l^5 r^4 R+1528 l^4 r^5 R+$$
$$336\sqrt{3}\, l^3 r^6 R-576 l^2 r^7 R-224\sqrt{3}\, l\, r^8 R-60 r^9 R+256 l^6 r^2 R^2-992\sqrt{3}\, l^5 r^3 R^2+1920 l^4 r^4 R^2+$$
$$2400\sqrt{3}\, l^3 r^5 R^2-1760 l^2 r^6 R^2-1344\sqrt{3}\, l\, r^7 R^2-480 r^8 R^2-1024 l^4 r^3 R^3+2688\sqrt{3}\, l^3 r^4 R^3-$$
$$\left.\left.1024 l^2 r^5 R^3-3584\sqrt{3}\, l\, r^6 R^3-1920 r^7 R^3+1792 l^2 r^4 R^4-3584\sqrt{3}\, l\, r^5 R^4-3840 r^6 R^4-3072 r^5 R^5\right)\right\}$$

$$\Big\{\text{X18, 2nd NAPOLEON POINT, X76, 3rd BROCARD POINT,}$$
$$\Big(3\left(l^2-2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)^2\left(3\,l^{10}-2\sqrt{3}\,l^9\,r+9\,l^8\,r^2-8\sqrt{3}\,l^7\,r^3+6\,l^6\,r^4-12\sqrt{3}\,l^5\,r^5-6\,l^4\,r^6-8\sqrt{3}\,l^3\,r^7-9\,l^2\,r^8-2\sqrt{3}\,l\,r^9-3\,r^{10}-60\,l^8\,r\,R+32\sqrt{3}\,l^7\,r^2\,R-48\,l^6\,r^3\,R+32\sqrt{3}\,l^5\,r^4\,R+24\,l^4\,r^5\,R-32\sqrt{3}\,l^3\,r^6\,R-48\,l^2\,r^7\,R-32\sqrt{3}\,l\,r^8\,R-60\,r^9\,R+160\,l^6\,r^2\,R^2+736\,l^4\,r^4\,R^2-64\sqrt{3}\,l^3\,r^5\,R^2-32\,l^2\,r^6\,R^2-192\sqrt{3}\,l\,r^7\,R^2-480\,r^8\,R^2+640\,l^4\,r^3\,R^3-256\sqrt{3}\,l^3\,r^4\,R^3-256\,l^2\,r^5\,R^3-512\sqrt{3}\,l\,r^6\,R^3-1920\,r^7\,R^3-1280\,l^2\,r^4\,R^4-512\sqrt{3}\,l\,r^5\,R^4-3840\,r^6\,R^4-3072\,r^5\,R^5\right)\Big)\Big/$$
$$\left(\left(3\,l^2-10\sqrt{3}\,l\,r-3\,r^2-12\,r\,R\right)^2\left(l^4+2\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R+16\,r^2\,R^2\right)^2\right)\Big\}$$

$$\Big\{\text{X18, 2nd NAPOLEON POINT, X77, ISOGONAL CONJUGATE OF X(33),}$$
$$-\frac{1}{\left(3\,l^2-10\sqrt{3}\,l\,r-3\,r^2-12\,r\,R\right)^2\left(l^2-r\,R-4\,R^2\right)^2}$$
$$3\,r^2\left(-8\,l^8-8\sqrt{3}\,l^7\,r-72\,l^6\,r^2-8\sqrt{3}\,l^5\,r^3-22\sqrt{3}\,l^7\,R+262\,l^6\,r\,R+48\sqrt{3}\,l^5\,r^2\,R-64\,l^4\,r^3\,R-26\sqrt{3}\,l^3\,r^4\,R-6\,l^2\,r^5\,R+45\,l^6\,R^2+418\sqrt{3}\,l^5\,r\,R^2-327\,l^4\,r^2\,R^2-256\sqrt{3}\,l^3\,r^3\,R^2-33\,l^2\,r^4\,R^2+14\sqrt{3}\,l\,r^5\,R^2+3\,r^6\,R^2+152\sqrt{3}\,l^5\,R^3-1484\,l^4\,r\,R^3-1176\sqrt{3}\,l^3\,r^2\,R^3+96\,l^2\,r^3\,R^3+224\sqrt{3}\,l\,r^4\,R^3+60\,r^5\,R^3-2336\sqrt{3}\,l^3\,r\,R^4+800\,l^2\,r^2\,R^4+1344\sqrt{3}\,l\,r^3\,R^4+480\,r^4\,R^4-256\sqrt{3}\,l^3\,R^5+1024\,l^2\,r\,R^5+3584\sqrt{3}\,l\,r^2\,R^5+1920\,r^3\,R^5-256\,l^2\,R^6+3584\sqrt{3}\,l\,r\,R^6+3840\,r^2\,R^6+3072\,r\,R^7\right)\Big\}$$

$$\Big\{\text{X18, 2nd NAPOLEON POINT, X78,}$$
$$\text{ISOGONAL CONJUGATE OF X(34)},\ -\frac{1}{(r-R)^2\left(3\,l^2-10\sqrt{3}\,l\,r-3\,r^2-12\,r\,R\right)^2}$$
$$3\left(-8\,l^4\,r^4-8\sqrt{3}\,l^3\,r^5-72\,l^2\,r^6-8\sqrt{3}\,l\,r^7+6\sqrt{3}\,l^5\,r^2\,R-38\,l^4\,r^3\,R+16\sqrt{3}\,l^3\,r^4\,R-96\,l^2\,r^5\,R-22\sqrt{3}\,l\,r^6\,R+6\,r^7\,R-3\,l^6\,R^2+14\sqrt{3}\,l^5\,r\,R^2-51\,l^4\,r^2\,R^2-80\sqrt{3}\,l^3\,r^3\,R^2+479\,l^2\,r^4\,R^2+146\sqrt{3}\,l\,r^5\,R^2+63\,r^6\,R^2+60\,l^4\,r\,R^3-248\sqrt{3}\,l^3\,r^2\,R^3+592\,l^2\,r^3\,R^3+536\sqrt{3}\,l\,r^4\,R^3+228\,r^5\,R^3-208\,l^2\,r^2\,R^4+448\sqrt{3}\,l\,r^3\,R^4+336\,r^4\,R^4+192\,r^3\,R^5\right)\Big\}$$

$$\Big\{\text{X18, 2nd NAPOLEON POINT, X79,}$$
$$\text{ISOGONAL CONJUGATE OF X(35)},\ -\frac{1}{(2\,r+3\,R)^2\left(3\,l^2-10\sqrt{3}\,l\,r-3\,r^2-12\,r\,R\right)^2}$$
$$12\,r^2\left(6\,l^6-34\sqrt{3}\,l^5\,r+108\,l^4\,r^2+60\sqrt{3}\,l^3\,r^3+6\,l^2\,r^4-2\sqrt{3}\,l\,r^5+9\sqrt{3}\,l^5\,R-189\,l^4\,r\,R+178\sqrt{3}\,l^3\,r^2\,R+86\,l^2\,r^3\,R-7\sqrt{3}\,l\,r^4\,R+3\,r^5\,R-36\,l^4\,R^2-18\sqrt{3}\,l^3\,r\,R^2+398\,l^2\,r^2\,R^2+70\sqrt{3}\,l\,r^3\,R^2+42\,r^4\,R^2-45\sqrt{3}\,l^3\,R^3+591\,l^2\,r\,R^3+399\sqrt{3}\,l\,r^2\,R^3+219\,r^3\,R^3-36\,l^2\,R^4+540\sqrt{3}\,l\,r\,R^4+504\,r^2\,R^4+432\,r\,R^5\right)\Big\}$$

$$\Big\{\text{X18, 2nd NAPOLEON POINT, X80, REFLECTION OF INCENTER IN FEUERBACH POINT,}$$
$$\Big(12\,r^2\left(\sqrt{3}\,l^5+3\,l^4\,r-30\sqrt{3}\,l^3\,r^2+54\,l^2\,r^3+17\sqrt{3}\,l\,r^4+3\,r^5-2\,l^4\,R-16\sqrt{3}\,l^3\,r\,R+12\,l^2\,r^2\,R+96\sqrt{3}\,l\,r^3\,R+30\,r^4\,R-\sqrt{3}\,l^3\,R^2-25\,l^2\,r\,R^2+123\sqrt{3}\,l\,r^2\,R^2+99\,r^3\,R^2-4\,l^2\,R^3+44\sqrt{3}\,l\,r\,R^3+120\,r^2\,R^3+48\,r\,R^4\right)\Big)\Big/\left((2\,r-R)\left(3\,l^2-10\sqrt{3}\,l\,r-3\,r^2-12\,r\,R\right)^2\right)\Big\}$$

$$\Big\{\text{X18, 2nd NAPOLEON POINT, X81, CEVAPOINT OF INCENTER AND SYMMEDIAN POINT,}$$
$$-\frac{1}{\left(3\,l^2-10\sqrt{3}\,l\,r-3\,r^2-12\,r\,R\right)^2\left(l^2-r^2-r\,R\right)^2}$$
$$3\,r^2\left(-8\,l^8-136\,l^6\,r^2+136\,l^4\,r^4+8\,l^2\,r^6-6\sqrt{3}\,l^7\,R+108\,l^6\,r\,R-70\sqrt{3}\,l^5\,r^2\,R+344\,l^4\,r^3\,R+70\sqrt{3}\,l^3\,r^4\,R+108\,l^2\,r^5\,R+6\sqrt{3}\,l\,r^6\,R-7\,l^6\,R^2+74\sqrt{3}\,l^5\,r\,R^2+709\,l^4\,r^2\,R^2+180\sqrt{3}\,l^3\,r^3\,R^2+495\,l^2\,r^4\,R^2+74\sqrt{3}\,l\,r^5\,R^2+3\,r^6\,R^2+44\,l^4\,r\,R^3+416\sqrt{3}\,l^3\,r^2\,R^3+736\,l^2\,r^3\,R^3+304\sqrt{3}\,l\,r^4\,R^3+36\,r^5\,R^3+176\,l^2\,r^2\,R^4+416\sqrt{3}\,l\,r^3\,R^4+144\,r^4\,R^4+192\,r^3\,R^5\right)\Big\}$$

$$\Big\{\text{X18, 2nd NAPOLEON POINT, X82, ISOGONAL CONJUGATE OF X(38)},$$
$$\Big(3 r^2 \Big(8 l^{12} - 8\sqrt{3}\, l^{11} r + 168 l^{10} r^2 + 24\sqrt{3}\, l^9 r^3 - 1040 l^8 r^4 + 16\sqrt{3}\, l^7 r^5 + 1712 l^6 r^6 - 48\sqrt{3}\, l^5 r^7 -$$
$$1016 l^4 r^8 - 8\sqrt{3}\, l^3 r^9 + 168 l^2 r^{10} + 24\sqrt{3}\, l r^{11} + 6\sqrt{3}\, l^{11} R - 242 l^{10} r R + 218\sqrt{3}\, l^9 r^2 R -$$
$$2686 l^8 r^3 R - 516\sqrt{3}\, l^7 r^4 R + 10860 l^6 r^5 R + 340\sqrt{3}\, l^5 r^6 R - 10620 l^4 r^7 R - 514\sqrt{3}\, l^3 r^8 R +$$
$$2694 l^2 r^9 R + 466\sqrt{3}\, l r^{10} R - 6 r^{11} R + 7 l^{10} R^2 - 162\sqrt{3}\, l^9 r R^2 + 1873 l^8 r^2 R^2 -$$
$$1696\sqrt{3}\, l^7 r^3 R^2 + 17782 l^6 r^4 R^2 + 3628\sqrt{3}\, l^5 r^5 R^2 - 39166 l^4 r^6 R^2 - 4560\sqrt{3}\, l^3 r^7 R^2 +$$
$$16451 l^2 r^8 R^2 + 3590\sqrt{3}\, l r^9 R^2 - 147 r^{10} R^2 - 156 l^8 r R^3 + 1424\sqrt{3}\, l^7 r^2 R^3 - 3584 l^6 r^3 R^3 +$$
$$4992\sqrt{3}\, l^5 r^4 R^3 - 52296 l^4 r^5 R^3 - 13296\sqrt{3}\, l^3 r^6 R^3 + 46656 l^2 r^7 R^3 + 13600\sqrt{3}\, l r^8 R^3 -$$
$$1500 r^9 R^3 + 1376 l^6 r^2 R^4 - 6432\sqrt{3}\, l^5 r^3 R^4 - 8640 l^4 r^4 R^4 - 7392\sqrt{3}\, l^3 r^5 R^4 + 59392 l^2 r^6 R^4 +$$
$$24640\sqrt{3}\, l r^7 R^4 - 8160 r^8 R^4 - 6912 l^4 r^3 R^5 + 14720\sqrt{3}\, l^3 r^4 R^5 + 30976 l^2 r^5 R^5 +$$
$$14336\sqrt{3}\, l r^6 R^5 - 24960 r^7 R^5 + 18688 l^2 r^4 R^6 - 6656\sqrt{3}\, l r^5 R^6 - 40704 r^6 R^6 - 27648 r^5 R^7\Big)\Big) \Big/$$
$$\Big(\Big(3 l^2 - 10\sqrt{3}\, l r - 3 r^2 - 12 r R\Big)^2 \Big(l^4 - 4 l^2 r^2 + 3 r^4 - 9 l^2 r R + 19 r^3 R + 28 r^2 R^2\Big)^2\Big)\Big\}$$

$$\Big\{\text{X18, 2nd NAPOLEON POINT, X83, CEVAPOINT OF CENTROID AND SYMMEDIAN POINT},$$
$$\Big(3\Big(l^2 + 2\sqrt{3}\, l r - r^2 - 4 r R\Big)^3 \Big(3 l^8 - 8\sqrt{3}\, l^7 r + 60 l^6 r^2 - 8\sqrt{3}\, l^5 r^3 - 142 l^4 r^4 + 8\sqrt{3}\, l^3 r^5 +$$
$$60 l^2 r^6 + 8\sqrt{3}\, l r^7 + 3 r^8 - 48 l^6 r R + 96\sqrt{3}\, l^5 r^2 R - 432 l^4 r^3 R - 64\sqrt{3}\, l^3 r^4 R +$$
$$432 l^2 r^5 R + 96\sqrt{3}\, l r^6 R + 48 r^7 R + 64 l^4 r^2 R^2 - 320\sqrt{3}\, l^3 r^3 R^2 + 800 l^2 r^4 R^2 +$$
$$384\sqrt{3}\, l r^5 R^2 + 288 r^6 R^2 + 128 l^2 r^3 R^3 + 512\sqrt{3}\, l r^4 R^3 + 768 r^5 R^3 + 768 r^4 R^4\Big)\Big) \Big/$$
$$\Big(\Big(3 l^2 - 10\sqrt{3}\, l r - 3 r^2 - 12 r R\Big)^2 \Big(5 l^4 - 6 l^2 r^2 + 5 r^4 - 40 l^2 r R + 40 r^3 R + 80 r^2 R^2\Big)^2\Big)\Big\}$$

$$\Big\{\text{X18, 2nd NAPOLEON POINT, X84, ISOGONAL CONJUGATE OF X(40)}, -\frac{1}{r^2 \Big(3 l^2 - 10\sqrt{3}\, l r - 3 r^2 - 12 r R\Big)^2}$$
$$12\Big(-2\sqrt{3}\, l^5 r^3 + 18 l^4 r^4 - 2\sqrt{3}\, l^3 r^5 + 2 l^2 r^6 - 3 l^6 r R + 21\sqrt{3}\, l^5 r^2 R - 107 l^4 r^3 R - 7\sqrt{3}\, l^3 r^4 R +$$
$$48 l^2 r^5 R + 4\sqrt{3}\, l r^6 R + 3 l^6 R^2 - 20\sqrt{3}\, l^5 r R^2 + 124 l^4 r^2 R^2 - 100\sqrt{3}\, l^3 r^3 R^2 + 153 l^2 r^4 R^2 +$$
$$32\sqrt{3}\, l r^5 R^2 - 24 l^4 r R^3 + 76\sqrt{3}\, l^3 r^2 R^3 - 8 l^2 r^3 R^3 + 68\sqrt{3}\, l r^4 R^3 - 12 l^4 R^4 + 80\sqrt{3}\, l^3 r R^4 -$$
$$328 l^2 r^2 R^4 - 64\sqrt{3}\, l r^3 R^4 - 12 r^4 R^4 + 96 l^2 r R^5 - 320\sqrt{3}\, l r^2 R^5 - 96 r^3 R^5 - 192 r^2 R^6\Big)\Big\}$$

$$\Big\{\text{X18, 2nd NAPOLEON POINT, X85, ISOTOMIC CONJUGATE OF X(9)},$$
$$\frac{1}{\Big(3 l^2 - 10\sqrt{3}\, l r - 3 r^2 - 12 r R\Big)^2 \Big(l^2 + r^2 + 8 r R + 16 R^2\Big)^2}$$
$$3\Big(3 l^{10} - 14\sqrt{3}\, l^9 r + 57 l^8 r^2 - 24\sqrt{3}\, l^7 r^3 + 54 l^6 r^4 - 20\sqrt{3}\, l^5 r^5 - 54 l^4 r^6 - 24\sqrt{3}\, l^3 r^7 -$$
$$57 l^2 r^8 - 14\sqrt{3}\, l r^9 - 3 r^{10} - 84 l^8 r R + 416\sqrt{3}\, l^7 r^2 R - 1312 l^6 r^3 R - 528\sqrt{3}\, l^5 r^4 R +$$
$$616 l^4 r^5 R - 1056 l^2 r^7 R - 336\sqrt{3}\, l r^8 R - 84 r^9 R + 96\sqrt{3}\, l^7 r R^2 - 16 l^6 r^2 R^2 -$$
$$2496\sqrt{3}\, l^5 r^3 R^2 + 7440 l^4 r^4 R^2 + 2368\sqrt{3}\, l^3 r^5 R^2 - 7760 l^2 r^6 R^2 - 3360\sqrt{3}\, l r^7 R^2 -$$
$$1008 r^8 R^2 + 192 l^6 r R^3 - 2816\sqrt{3}\, l^5 r^2 R^3 + 16128 l^4 r^3 R^3 + 13056\sqrt{3}\, l^3 r^4 R^3 -$$
$$28160 l^2 r^5 R^3 - 17920\sqrt{3}\, l r^6 R^3 - 6720 r^7 R^3 - 1280 l^4 r^2 R^4 + 21504\sqrt{3}\, l^3 r^3 R^4 -$$
$$49920 l^2 r^4 R^4 - 53760\sqrt{3}\, l r^5 R^4 - 26880 r^6 R^4 + 4096\sqrt{3}\, l^3 r^2 R^5 - 32768 l^2 r^3 R^5 -$$
$$86016\sqrt{3}\, l r^4 R^5 - 64512 r^5 R^5 + 4096 l^2 r^2 R^6 - 57344\sqrt{3}\, l r^3 R^6 - 86016 r^4 R^6 - 49152 r^3 R^7\Big)\Big\}$$

$$\left\{\text{X18, 2nd NAPOLEON POINT, X86, CEVAPOINT OF INCENTER AND CENTROID,}\right.$$

$$\frac{1}{\left(3 l^2-10\sqrt{3}\, l\, r-3 r^2-12 r R\right)^2\left(5 l^2+r^2+4 r R\right)^2}$$

$$3\left(3 l^{10}+10\sqrt{3}\, l^9 r+33 l^8 r^2+176\sqrt{3}\, l^7 r^3+750 l^6 r^4+52\sqrt{3}\, l^5 r^5-382 l^4 r^6-128\sqrt{3}\, l^3 r^7-\right.$$
$$81 l^2 r^8-14\sqrt{3}\, l\, r^9-3 r^{10}-12 l^8 r R-96\sqrt{3}\, l^7 r^2 R-224 l^6 r^3 R+224\sqrt{3}\, l^5 r^4 R-1112 l^4 r^5 R-$$
$$928\sqrt{3}\, l^3 r^6 R-960 l^2 r^7 R-224\sqrt{3}\, l\, r^8 R-60 r^9 R-320 l^6 r^2 R^2-1376\sqrt{3}\, l^5 r^3 R^2-3648 l^4 r^4 R^2-$$
$$\left.2720\sqrt{3}\, l^3 r^5 R^2-4064 l^2 r^6 R^2-1344\sqrt{3}\, l\, r^7 R^2-480 r^8 R^2-2048 l^4 r^3 R^3-4224\sqrt{3}\, l^3 r^4 R^3-\right.$$
$$\left.\left.7168 l^2 r^5 R^3-3584\sqrt{3}\, l\, r^6 R^3-1920 r^7 R^3-4352 l^2 r^4 R^4-3584\sqrt{3}\, l\, r^5 R^4-3840 r^6 R^4-3072 r^5 R^5\right)\right\}$$

$$\left\{\text{X18, 2nd NAPOLEON POINT, X87, X(2)-CROSS CONJUGATE OF X(1),}\right.$$

$$\left(12 r^2\left(2 l^{12}+2\sqrt{3}\, l^{11} r+26 l^{10} r^2+10\sqrt{3}\, l^9 r^3+84 l^8 r^4+20\sqrt{3}\, l^7 r^5+116 l^6 r^6+20\sqrt{3}\, l^5 r^7+\right.\right.$$
$$74 l^4 r^8+10\sqrt{3}\, l^3 r^9+18 l^2 r^{10}+2\sqrt{3}\, l\, r^{11}-3\sqrt{3}\, l^{11} R-61 l^{10} r R-71\sqrt{3}\, l^9 r^2 R-753 l^8 r^3 R-$$
$$126\sqrt{3}\, l^7 r^4 R-866 l^6 r^5 R+18\sqrt{3}\, l^5 r^6 R+286 l^4 r^7 R+145\sqrt{3}\, l^3 r^8 R+463 l^2 r^9 R+$$
$$69\sqrt{3}\, l\, r^{10} R+3 r^{11} R+4 l^{10} R^2+56\sqrt{3}\, l^9 r R^2+460 l^8 r^2 R^2+448\sqrt{3}\, l^7 r^3 R^2+6536 l^6 r^4 R^2-$$
$$528\sqrt{3}\, l^5 r^5 R^2-6664 l^4 r^6 R^2-128\sqrt{3}\, l^3 r^7 R^2+3700 l^2 r^8 R^2+792\sqrt{3}\, l\, r^9 R^2+60 r^{10} R^2-$$
$$64 l^8 r R^3+32\sqrt{3}\, l^7 r^2 R^3+1504 l^6 r^3 R^3+1184\sqrt{3}\, l^5 r^4 R^3-11680 l^4 r^5 R^3-2848\sqrt{3}\, l^3 r^6 R^3+$$
$$11808 l^2 r^7 R^3+4192\sqrt{3}\, l\, r^8 R^3+480 r^9 R^3+128 l^6 r^2 R^4-2304\sqrt{3}\, l^5 r^3 R^4-18048 l^4 r^4 R^4-$$
$$3840\sqrt{3}\, l^3 r^5 R^4+12416 l^2 r^6 R^4+10752\sqrt{3}\, l\, r^7 R^4+1920 r^8 R^4-2048 l^4 r^3 R^5-4864\sqrt{3}\, l^3 r^4 R^5-$$
$$\left.\left.2304 l^2 r^5 R^5+11520\sqrt{3}\, l\, r^6 R^5+3840 r^7 R^5+1024 l^2 r^4 R^6+2048\sqrt{3}\, l\, r^5 R^6+3072 r^6 R^6\right)\right)\Big/$$
$$\left.\left.\left(3 l^2-10\sqrt{3}\, l\, r-3 r^2-12 r R\right)^2\left(l^4+2 l^2 r^2+r^4-20 l^2 r R+12 r^3 R+32 r^2 R^2\right)^2\right)\right\}$$

$$\left\{\text{X18, 2nd NAPOLEON POINT, X88, ISOGONAL CONJUGATE OF X(44),}\right.$$

$$-\frac{1}{\left(l^2+3 r^2-15 r R\right)^2\left(3 l^2-10\sqrt{3}\, l\, r-3 r^2-12 r R\right)^2}$$

$$3 r^2\left(-8 l^8-32\sqrt{3}\, l^7 r+120 l^6 r^2-128\sqrt{3}\, l^5 r^3+456 l^4 r^4-96\sqrt{3}\, l^3 r^5+\right.$$
$$72 l^2 r^6+6\sqrt{3}\, l^7 R+236 l^6 r R+782\sqrt{3}\, l^5 r^2 R-2376 l^4 r^3 R+426\sqrt{3}\, l^3 r^4 R+$$
$$972 l^2 r^5 R+162\sqrt{3}\, l\, r^6 R-7 l^6 R^2+10\sqrt{3}\, l^5 r R^2-2043 l^4 r^2 R^2-4188\sqrt{3}\, l^3 r^3 R^2+$$
$$4959 l^2 r^4 R^2+2106\sqrt{3}\, l\, r^5 R^2+243 r^6 R^2+60 l^4 r R^3-2496\sqrt{3}\, l^3 r^2 R^3+3024 l^2 r^3 R^3+$$
$$\left.9072\sqrt{3}\, l\, r^4 R^3+2916 r^5 R^3-144 l^2 r^2 R^4+12960\sqrt{3}\, l\, r^3 R^4+11664 r^4 R^4+15552 r^3 R^5\right)\Big\}$$

$$\left\{\text{X18, 2nd NAPOLEON POINT, X89, ISOGONAL CONJUGATE OF X(45),}\right.$$

$$-\frac{1}{\left(3 l^2-10\sqrt{3}\, l\, r-3 r^2-12 r R\right)^2\left(2 l^2-6 r^2+3 r R\right)^2}$$

$$3 r^2\left(-32 l^8+64\sqrt{3}\, l^7 r-1056 l^6 r^2-128\sqrt{3}\, l^5 r^3+3360 l^4 r^4-192\sqrt{3}\, l^3 r^5+\right.$$
$$288 l^2 r^6-12\sqrt{3}\, l^7 R+176 l^6 r R-916\sqrt{3}\, l^5 r^2 R+1248 l^4 r^3 R+1212\sqrt{3}\, l^3 r^4 R+$$
$$3888 l^2 r^5 R+324\sqrt{3}\, l\, r^6 R-19 l^6 R^2-158\sqrt{3}\, l^5 r R^2+7149 l^4 r^2 R^2-2796\sqrt{3}\, l^3 r^3 R^2+$$
$$17811 l^2 r^4 R^2+4050\sqrt{3}\, l\, r^5 R^2+243 r^6 R^2-108 l^4 r R^3+3792\sqrt{3}\, l^3 r^2 R^3+21816 l^2 r^3 R^3+$$
$$\left.16848\sqrt{3}\, l\, r^4 R^3+2916 r^5 R^3+720 l^2 r^2 R^4+23328\sqrt{3}\, l\, r^3 R^4+11664 r^4 R^4+15552 r^3 R^5\right)\Big\}$$

{X18, 2nd NAPOLEON POINT, X90, X(3)-CROSS CONJUGATE OF X(1),

$$-\frac{1}{\left(3 l^2-10\sqrt{3}\, l r-3 r^2-12 r R\right)^2 \left(r^2+2 r R-R^2\right)^2}$$

$$12 r^2 \left(-2\sqrt{3}\, l^5 r^3+18 l^4 r^4-2\sqrt{3}\, l^3 r^5+2 l^2 r^6-3 l^6 r R+15\sqrt{3}\, l^5 r^2 R-55 l^4 r^3 R-15\sqrt{3}\, l^3 r^4 R+36 l^2 r^5 R+2\sqrt{3}\, l r^6 R+20 l^4 r^2 R^2-82\sqrt{3}\, l^3 r^3 R^2+172 l^2 r^4 R^2+22\sqrt{3}\, l r^5 R^2+\sqrt{3}\, l^5 R^3+16 l^4 r R^3-72\sqrt{3}\, l^3 r^2 R^3+244 l^2 r^3 R^3+83\sqrt{3}\, l r^4 R^3-2 l^4 R^4-16\sqrt{3}\, l^3 r R^4-6 l^2 r^2 R^4+116\sqrt{3}\, l r^3 R^4-\sqrt{3}\, l^3 R^5-17 l^2 r R^5+43\sqrt{3}\, l r^2 R^5+3 r^3 R^5-4 l^2 R^6+44\sqrt{3}\, l r R^6+24 r^2 R^6+48 r R^7\right)\}$$

{X18, 2nd NAPOLEON POINT, X91, ISOGONAL CONJUGATE OF X(47),

$$-\left(\left(3 r^2 \left(-3 l^{10}+14\sqrt{3}\, l^9 r-57 l^8 r^2+24\sqrt{3}\, l^7 r^3-54 l^6 r^4+20\sqrt{3}\, l^5 r^5+54 l^4 r^6+24\sqrt{3}\, l^3 r^7+57 l^2 r^8+14\sqrt{3}\, l r^9+3 r^{10}+6\sqrt{3}\, l^9 R+34 l^8 r R-312\sqrt{3}\, l^7 r^2 R+920 l^6 r^3 R+388\sqrt{3}\, l^5 r^4 R-1268 l^4 r^5 R-312\sqrt{3}\, l^3 r^6 R+728 l^2 r^7 R+262\sqrt{3}\, l r^8 R+66 r^9 R+16 l^8 R^2-244\sqrt{3}\, l^7 r R^2+692 l^6 r^2 R^2+1988\sqrt{3}\, l^5 r^3 R^2-4868 l^4 r^4 R^2-3068\sqrt{3}\, l^3 r^5 R^2+3644 l^2 r^6 R^2+1996\sqrt{3}\, l r^7 R^2+612 r^8 R^2-36\sqrt{3}\, l^7 R^3-188 l^6 r R^3+2804\sqrt{3}\, l^5 r^2 R^3-6132 l^4 r^3 R^3-8780\sqrt{3}\, l^3 r^4 R^3+8812 l^2 r^5 R^3+7964\sqrt{3}\, l r^6 R^3+3108 r^7 R^3-44 l^6 R^4+1048\sqrt{3}\, l^5 r R^4-1484 l^4 r^2 R^4-11952\sqrt{3}\, l^3 r^3 R^4+9964 l^2 r^4 R^4+17912\sqrt{3}\, l r^5 R^4+9420 r^6 R^4+72\sqrt{3}\, l^5 R^5+696 l^4 r R^5-7504\sqrt{3}\, l^3 r^2 R^5+3344 l^2 r^3 R^5+23016\sqrt{3}\, l r^4 R^5+17496 r^5 R^5+80 l^4 R^6-1648\sqrt{3}\, l^3 r R^6-2256 l^2 r^2 R^6+16592\sqrt{3}\, l r^3 R^6+19872 r^4 R^6-48\sqrt{3}\, l^3 R^7-1296 l^2 r R^7+6032\sqrt{3}\, l r^2 R^7+13488 r^3 R^7-64 l^2 R^8+832\sqrt{3}\, l r R^8+4992 r^2 R^8+768 r R^9\right)\right)\Big/$$

$$\left(\left(3 l^2-10\sqrt{3}\, l r-3 r^2-12 r R\right)^2 \left(l^2 r+r^3-l^2 R+3 r^2 R+2 r R^2+2 R^3\right)^2\right)\right)\}$$

{X18, 2nd NAPOLEON POINT, X92, CEVAPOINT OF INCENTER AND CLAWSON POINT,

$$\frac{1}{\left(3 l^2-10\sqrt{3}\, l r-3 r^2-12 r R\right)^2 \left(l^2+r^2-4 R^2\right)^2}$$

$$3 \left(3 l^{10}-14\sqrt{3}\, l^9 r+57 l^8 r^2-24\sqrt{3}\, l^7 r^3+54 l^6 r^4-20\sqrt{3}\, l^5 r^5-54 l^4 r^6-24\sqrt{3}\, l^3 r^7-57 l^2 r^8-14\sqrt{3}\, l r^9-3 r^{10}-84 l^8 r R+376\sqrt{3}\, l^7 r^2 R-1160 l^6 r^3 R-392\sqrt{3}\, l^5 r^4 R+1072 l^4 r^5 R+264\sqrt{3}\, l^3 r^6 R-728 l^2 r^7 R-248\sqrt{3}\, l r^8 R-60 r^9 R-24 l^8 R^2+112\sqrt{3}\, l^7 r R^2+208 l^6 r^2 R^2-2304\sqrt{3}\, l^5 r^3 R^2+5264 l^4 r^4 R^2+2832\sqrt{3}\, l^3 r^5 R^2-3792 l^2 r^6 R^2-1792\sqrt{3}\, l r^7 R^2-504 r^8 R^2+576 l^6 r R^3-2464\sqrt{3}\, l^5 r^2 R^3+4736 l^4 r^3 R^3+8448\sqrt{3}\, l^3 r^4 R^3-9664 l^2 r^5 R^3-6752\sqrt{3}\, l r^6 R^3-2304 r^7 R^3+48 l^6 R^4-224\sqrt{3}\, l^5 r R^4-2384 l^4 r^2 R^4+9984\sqrt{3}\, l^3 r^3 R^4-11056 l^2 r^4 R^4-13984\sqrt{3}\, l r^5 R^4-6192 r^6 R^4-960 l^4 r R^5+3840\sqrt{3}\, l^3 r^2 R^5-2304 l^2 r^3 R^5-15104\sqrt{3}\, l r^4 R^5-9792 r^5 R^5+3328 l^2 r^2 R^6-6656\sqrt{3}\, l r^3 R^6-8448 r^4 R^6-3072 r^3 R^7\right)\}$$

{X18, 2nd NAPOLEON POINT, X93, ISOGONAL CONJUGATE OF X(49),

$$\left(3 \left(l^2-2\sqrt{3}\, l r-r^2-4 r R-R^2\right)^2 \left(3 l^{10}-2\sqrt{3}\, l^9 r+9 l^8 r^2-8\sqrt{3}\, l^7 r^3+6 l^6 r^4-12\sqrt{3}\, l^5 r^5-6 l^4 r^6-8\sqrt{3}\, l^3 r^7-9 l^2 r^8-2\sqrt{3}\, l r^9-3 r^{10}-60 l^8 r R+32\sqrt{3}\, l^7 r^2 R-48 l^6 r^3 R+32\sqrt{3}\, l^5 r^4 R+24 l^4 r^5 R-32\sqrt{3}\, l^3 r^6 R-48 l^2 r^7 R-32\sqrt{3}\, l r^8 R-60 r^9 R-24 l^8 R^2+12\sqrt{3}\, l^7 r R^2+8 l^6 r^2 R^2+12\sqrt{3}\, l^5 r^3 R^2+480 l^4 r^4 R^2-76\sqrt{3}\, l^3 r^5 R^2-184 l^2 r^6 R^2-204\sqrt{3}\, l r^7 R^2-504 r^8 R^2+384 l^6 r R^3-144\sqrt{3}\, l^5 r^2 R^3+1472 l^4 r^3 R^3-160\sqrt{3}\, l^3 r^4 R^3-1088 l^2 r^5 R^3-656\sqrt{3}\, l r^6 R^3-2304 r^7 R^3+45 l^6 R^4-22\sqrt{3}\, l^5 r R^4+973 l^4 r^2 R^4-44\sqrt{3}\, l^3 r^3 R^4-3917 l^2 r^4 R^4-1110\sqrt{3}\, l r^5 R^4-6189 r^6 R^4-540 l^4 r R^5+176\sqrt{3}\, l^3 r^2 R^5-6424 l^2 r^3 R^5-944\sqrt{3}\, l r^4 R^5-9756 r^5 R^5+12 l^4 R^6+24\sqrt{3}\, l^3 r R^6-3912 l^2 r^2 R^6-376\sqrt{3}\, l r^3 R^6-8292 r^4 R^6-96 l^2 r R^7-96\sqrt{3}\, l r^2 R^7-2784 r^3 R^7+192 r^2 R^8\right)\right)\Big/\left(\left(3 l^2-10\sqrt{3}\, l r-3 r^2-12 r R\right)^2 \left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-8 l^2 R^2+24 r^2 R^2+32 r R^3+13 R^4\right)^2\right)\}$$

$$\Big\{\text{X18, 2nd NAPOLEON POINT, X94, ISOGONAL CONJUGATE OF X(50)},$$
$$\Big(3\left(l^2-2\sqrt{3}\,l\,r-r^2-4\,r\,R-3\,R^2\right)^2\left(3\,l^{10}-2\sqrt{3}\,l^9\,r+9\,l^8\,r^2-8\sqrt{3}\,l^7\,r^3+6\,l^6\,r^4-12\sqrt{3}\,l^5\,r^5-6\,l^4\,r^6-8\sqrt{3}\,l^3\,r^7-9\,l^2\,r^8-2\sqrt{3}\,l\,r^9-3\,r^{10}-60\,l^8\,r\,R+32\sqrt{3}\,l^7\,r^2\,R-48\,l^6\,r^3\,R+32\sqrt{3}\,l^5\,r^4\,R+24\,l^4\,r^5\,R-32\sqrt{3}\,l^3\,r^6\,R-48\,l^2\,r^7\,R-32\sqrt{3}\,l\,r^8\,R-60\,r^9\,R-18\,l^8\,R^2+12\sqrt{3}\,l^7\,r\,R^2+64\,l^6\,r^2\,R^2+12\sqrt{3}\,l^5\,r^3\,R^2+580\,l^4\,r^4\,R^2-76\sqrt{3}\,l^3\,r^5\,R^2-128\,l^2\,r^6\,R^2-204\sqrt{3}\,l\,r^7\,R^2-498\,r^8\,R^2+288\,l^6\,r\,R^3-144\sqrt{3}\,l^5\,r^2\,R^3+1120\,l^4\,r^3\,R^3-160\sqrt{3}\,l^3\,r^4\,R^3-736\,l^2\,r^5\,R^3-656\sqrt{3}\,l\,r^6\,R^3-2208\,r^7\,R^3+27\,l^6\,R^4-18\sqrt{3}\,l^5\,r\,R^4+315\,l^4\,r^2\,R^4-36\sqrt{3}\,l^3\,r^3\,R^4-2555\,l^2\,r^4\,R^4-1106\sqrt{3}\,l\,r^5\,R^4-5595\,r^6\,R^4-324\,l^4\,r\,R^5+144\sqrt{3}\,l^3\,r^2\,R^5-3240\,l^2\,r^3\,R^5-912\sqrt{3}\,l\,r^4\,R^5-8004\,r^5\,R^5-1296\,l^2\,r^2\,R^6-288\sqrt{3}\,l\,r^3\,R^6-5904\,r^4\,R^6-1728\,r^3\,R^7\right)\Big)\Big/\Big(\left(3\,l^2-10\sqrt{3}\,l\,r-3\,r^2-12\,r\,R\right)^2\left(l^4+2\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-12\,l^2\,R^2+28\,r^2\,R^2+48\,r\,R^3+27\,R^4\right)^2\Big)\Big\}$$

$$\Big\{\text{X18, 2nd NAPOLEON POINT, X95, CEVAPOINT OF CENTROID AND CIRCUMCENTER},$$
$$\Big(3\Big(3\,l^{14}-14\sqrt{3}\,l^{13}\,r+111\,l^{12}\,r^2-212\sqrt{3}\,l^{11}\,r^3+571\,l^{10}\,r^4+814\sqrt{3}\,l^9\,r^5-7729\,l^8\,r^6+2024\sqrt{3}\,l^7\,r^7+7729\,l^6\,r^8+814\sqrt{3}\,l^5\,r^9-571\,l^4\,r^{10}-212\sqrt{3}\,l^3\,r^{11}-111\,l^2\,r^{12}-14\sqrt{3}\,l\,r^{13}-3\,r^{14}-84\,l^{12}\,r\,R+336\sqrt{3}\,l^{11}\,r^2\,R-2136\,l^{10}\,r^3\,R+3056\sqrt{3}\,l^9\,r^4\,R-4716\,l^8\,r^5\,R-9568\sqrt{3}\,l^7\,r^6\,R+35632\,l^6\,r^7\,R+9568\sqrt{3}\,l^5\,r^8\,R-4716\,l^4\,r^9\,R-3056\sqrt{3}\,l^3\,r^{10}\,R-2136\,l^2\,r^{11}\,R-336\sqrt{3}\,l\,r^{12}\,R-84\,r^{13}\,R-24\,l^{12}\,R^2+112\sqrt{3}\,l^{11}\,r\,R^2-32\,l^{10}\,r^2\,R^2-720\sqrt{3}\,l^9\,r^3\,R^2+5992\,l^8\,r^4\,R^2-14496\sqrt{3}\,l^7\,r^5\,R^2+37888\,l^6\,r^6\,R^2+33632\sqrt{3}\,l^5\,r^7\,R^2-12872\,l^4\,r^8\,R^2-17616\sqrt{3}\,l^3\,r^9\,R^2-17120\,l^2\,r^{10}\,R^2-3472\sqrt{3}\,l\,r^{11}\,R^2-1032\,r^{12}\,R^2+576\,l^{10}\,r\,R^3-2240\sqrt{3}\,l^9\,r^2\,R^3+9344\,l^8\,r^3\,R^3-11520\sqrt{3}\,l^7\,r^4\,R^3+7040\,l^6\,r^5\,R^3+49536\sqrt{3}\,l^5\,r^6\,R^3-10752\,l^4\,r^7\,R^3-51456\sqrt{3}\,l^3\,r^8\,R^3-73664\,l^2\,r^9\,R^3-20160\sqrt{3}\,l\,r^{10}\,R^3-7296\,r^{11}\,R^3+48\,l^{10}\,R^4-224\sqrt{3}\,l^9\,r\,R^4-2096\,l^8\,r^2\,R^4+4992\sqrt{3}\,l^7\,r^3\,R^4-13536\,l^6\,r^4\,R^4+33984\sqrt{3}\,l^5\,r^5\,R^4-544\,l^4\,r^6\,R^4-81024\sqrt{3}\,l^3\,r^7\,R^4-182608\,l^2\,r^8\,R^4-71904\sqrt{3}\,l\,r^9\,R^4-32688\,r^{10}\,R^4-960\,l^8\,r\,R^5+3584\sqrt{3}\,l^7\,r^2\,R^5-12288\,l^6\,r^3\,R^5+28160\sqrt{3}\,l^5\,r^4\,R^5-11392\,l^4\,r^5\,R^5-75264\sqrt{3}\,l^3\,r^6\,R^5-260096\,l^2\,r^7\,R^5-161280\sqrt{3}\,l\,r^8\,R^5-96192\,r^9\,R^5+2560\,l^6\,r^2\,R^6+1536\sqrt{3}\,l^5\,r^3\,R^6+5632\,l^4\,r^4\,R^6-57856\sqrt{3}\,l^3\,r^5\,R^6-202240\,l^2\,r^6\,R^6-222208\sqrt{3}\,l\,r^7\,R^6-185856\,r^8\,R^6+10240\,l^4\,r^3\,R^7-34816\sqrt{3}\,l^3\,r^4\,R^7-81920\,l^2\,r^5\,R^7-172032\sqrt{3}\,l\,r^6\,R^7-227328\,r^7\,R^7-20480\,l^2\,r^4\,R^8-57344\sqrt{3}\,l\,r^5\,R^8-159744\,r^6\,R^8-49152\,r^5\,R^9\Big)\Big)\Big/$$
$$\Big(\left(3\,l^2-10\sqrt{3}\,l\,r-3\,r^2-12\,r\,R\right)^2\left(l^4+18\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-4\,l^2\,R^2+20\,r^2\,R^2+16\,r\,R^3\right)^2\Big)\Big\}$$

$$\Big\{\text{X18, 2nd NAPOLEON POINT, X96,}$$
$$\text{ISOGONAL CONJUGATE OF X(52)},-\Big(\Big(\left(3\,l^2-2\sqrt{3}\,l\,r-3\,r^2-12\,r\,R-6\,R^2\right)^2\Big(l^{10}-6\sqrt{3}\,l^9\,r+3\,l^8\,r^2+104\sqrt{3}\,l^7\,r^3-254\,l^6\,r^4-292\sqrt{3}\,l^5\,r^5+254\,l^4\,r^6+104\sqrt{3}\,l^3\,r^7-3\,l^2\,r^8-6\sqrt{3}\,l\,r^9-r^{10}-20\,l^8\,r\,R+96\sqrt{3}\,l^7\,r^2\,R-16\,l^6\,r^3\,R-928\sqrt{3}\,l^5\,r^4\,R+1032\,l^4\,r^5\,R+928\sqrt{3}\,l^3\,r^6\,R-16\,l^2\,r^7\,R-96\sqrt{3}\,l\,r^8\,R-20\,r^9\,R-8\,l^8\,R^2+48\sqrt{3}\,l^7\,r\,R^2+64\,l^6\,r^2\,R^2-1168\sqrt{3}\,l^5\,r^3\,R^2+1520\,l^4\,r^4\,R^2+3024\sqrt{3}\,l^3\,r^5\,R^2-624\sqrt{3}\,l\,r^7\,R^2-168\,r^8\,R^2+128\,l^6\,r\,R^3-576\sqrt{3}\,l^5\,r^2\,R^3+4480\sqrt{3}\,l^3\,r^4\,R^3+128\,l^2\,r^5\,R^3-2112\sqrt{3}\,l\,r^6\,R^3-768\,r^7\,R^3+20\,l^6\,R^4-120\sqrt{3}\,l^5\,r\,R^4-460\,l^4\,r^2\,R^4+3152\sqrt{3}\,l^3\,r^3\,R^4+460\,l^2\,r^4\,R^4-3960\sqrt{3}\,l\,r^5\,R^4-2068\,r^6\,R^4-240\,l^4\,r\,R^5+960\sqrt{3}\,l^3\,r^2\,R^5+1056\,l^2\,r^3\,R^5-4032\sqrt{3}\,l\,r^4\,R^5-3312\,r^5\,R^5-16\,l^4\,R^6+96\sqrt{3}\,l^3\,r\,R^6+608\,l^2\,r^2\,R^6-2016\sqrt{3}\,l\,r^3\,R^6-3024\,r^4\,R^6+128\,l^2\,r\,R^7-384\sqrt{3}\,l\,r^2\,R^7-1408\,r^3\,R^7-256\,r^2\,R^8\Big)\Big)\Big/$$
$$\Big(\left(3\,l^2-10\sqrt{3}\,l\,r-3\,r^2-12\,r\,R\right)^2\left(l^4-14\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R+16\,r^2\,R^2-4\,R^4\right)^2\Big)\Big)\Big\}$$

$$\Big\{\text{X18, 2nd NAPOLEON POINT, X97, ISOGONAL CONJUGATE OF X(53)},$$
$$\Big(3\Big(8 l^{12} r^2 - 16\sqrt{3}\, l^{11} r^3 + 216 l^{10} r^4 + 64\sqrt{3}\, l^9 r^5 - 1840 l^8 r^6 + 160\sqrt{3}\, l^7 r^7 + 1840 l^6 r^8 +$$
$$64\sqrt{3}\, l^5 r^9 - 216 l^4 r^{10} - 16\sqrt{3}\, l^3 r^{11} - 8 l^2 r^{12} - 160 l^{10} r^3 R + 256\sqrt{3}\, l^9 r^4 R - 2432 l^8 r^5 R -$$
$$768\sqrt{3}\, l^7 r^6 R + 9792 l^6 r^7 R + 768\sqrt{3}\, l^5 r^8 R - 2432 l^4 r^9 R - 256\sqrt{3}\, l^3 r^{10} R - 160 l^2 r^{11} R -$$
$$6\sqrt{3}\, l^{11} r R^2 - 36 l^{10} r^2 R^2 + 14\sqrt{3}\, l^9 r^3 R^2 - 1744 l^8 r^4 R^2 - 492\sqrt{3}\, l^7 r^5 R^2 + 18856 l^6 r^6 R^2 +$$
$$2028\sqrt{3}\, l^5 r^7 R^2 - 11472 l^4 r^8 R^2 - 1550\sqrt{3}\, l^3 r^9 R^2 - 1316 l^2 r^{10} R^2 + 6\sqrt{3}\, l r^{11} R^2 +$$
$$120\sqrt{3}\, l^9 r^2 R^3 + 576 l^8 r^3 R^3 - 288\sqrt{3}\, l^7 r^4 R^3 + 18496 l^6 r^5 R^3 + 208\sqrt{3}\, l^5 r^6 R^3 - 29760 l^4 r^7 R^3 -$$
$$4384\sqrt{3}\, l^3 r^8 R^3 - 5696 l^2 r^9 R^3 + 120\sqrt{3}\, l r^{10} R^3 + 3 l^{10} R^4 + 46\sqrt{3}\, l^9 r R^4 - 59 l^8 r^2 R^4 +$$
$$224\sqrt{3}\, l^7 r^3 R^4 + 10306 l^6 r^4 R^4 - 5084\sqrt{3}\, l^5 r^5 R^4 - 47298 l^4 r^6 R^4 - 5024\sqrt{3}\, l^3 r^7 R^4 -$$
$$13637 l^2 r^8 R^4 + 1006\sqrt{3}\, l r^9 R^4 - 3 r^{10} R^4 - 60 l^8 r R^5 - 736\sqrt{3}\, l^7 r^2 R^5 + 768 l^6 r^3 R^5 -$$
$$4896\sqrt{3}\, l^5 r^4 R^5 - 46600 l^4 r^5 R^5 + 2080\sqrt{3}\, l^3 r^6 R^5 - 16640 l^2 r^7 R^5 + 4576\sqrt{3}\, l r^8 R^5 -$$
$$60 r^9 R^5 - 24 l^8 R^6 - 80\sqrt{3}\, l^7 r R^6 + 512 l^6 r^2 R^6 - 2512\sqrt{3}\, l^5 r^3 R^6 - 22896 l^4 r^4 R^6 +$$
$$12304\sqrt{3}\, l^3 r^5 R^6 - 5632 l^2 r^6 R^6 + 12176\sqrt{3}\, l r^7 R^6 - 504 r^8 R^6 + 384 l^6 r R^7 + 960\sqrt{3}\, l^5 r^2 R^7 -$$
$$2560 l^4 r^3 R^7 + 14976\sqrt{3}\, l^3 r^4 R^7 + 7296 l^2 r^5 R^7 + 18880\sqrt{3}\, l r^6 R^7 - 2304 r^7 R^7 + 48 l^6 R^8 -$$
$$32\sqrt{3}\, l^5 r R^8 - 80 l^4 r^2 R^8 + 8128\sqrt{3}\, l^3 r^3 R^8 + 5200 l^2 r^4 R^8 + 15584\sqrt{3}\, l r^5 R^8 - 6192 r^6 R^8 -$$
$$576 l^4 r R^9 + 256\sqrt{3}\, l^3 r^2 R^9 - 2176 l^2 r^3 R^9 + 4864\sqrt{3}\, l r^4 R^9 - 9792 r^5 R^9 - 2304 l^2 r^2 R^{10} -$$
$$512\sqrt{3}\, l r^3 R^{10} - 8448 r^4 R^{10} - 3072 r^3 R^{11}\Big)\Big)\Big/\Big(\Big(3 l^2 - 10\sqrt{3}\, l r - 3 r^2 - 12 r R\Big)^2$$
$$\Big(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 7 l^2 R^2 + 23 r^2 R^2 + 28 r R^3 + 12 R^4\Big)^2\Big)\Big\}$$

$$\Big\{\text{X18, 2nd NAPOLEON POINT, X98, TarryPoint},$$
$$-\Big(\Big(\Big(3 l^2 - 2\sqrt{3}\, l r - 3 r^2 - 12 r R\Big)^2 \Big(l^4 - 4\sqrt{3}\, l^3 r - 6 l^2 r^2 + 4\sqrt{3}\, l r^3 + r^4 -$$
$$8 l^2 r R + 16\sqrt{3}\, l r^2 R + 8 r^3 R - 4 l^2 R^2 + 16\sqrt{3}\, l r R^2 + 20 r^2 R^2 + 16 r R^3\Big)\Big)\Big/$$
$$\Big(\Big(3 l^2 - 10\sqrt{3}\, l r - 3 r^2 - 12 r R\Big)^2 \Big(l^2 + 2\sqrt{3}\, l r - r^2 - 4 r R\Big)\Big)\Big)\Big\}$$

$$\Big\{\text{X18, 2nd NAPOLEON POINT, X99, STEINER POINT},$$
$$\frac{1}{\Big(3 l^2 - 10\sqrt{3}\, l r - 3 r^2 - 12 r R\Big)^2 \Big(l^2 + 2\sqrt{3}\, l r - r^2 - 4 r R\Big)}$$
$$3\Big(3 l^8 - 8\sqrt{3}\, l^7 r + 12 l^6 r^2 - 72\sqrt{3}\, l^5 r^3 + 146 l^4 r^4 + 72\sqrt{3}\, l^3 r^5 +$$
$$12 l^2 r^6 + 8\sqrt{3}\, l r^7 + 3 r^8 - 48 l^6 r R + 96\sqrt{3}\, l^5 r^2 R - 48 l^4 r^3 R + 192\sqrt{3}\, l^3 r^4 R +$$
$$48 l^2 r^5 R + 96\sqrt{3}\, l r^6 R + 48 r^7 R - 32 l^4 r^2 R^2 + 512\sqrt{3}\, l^3 r^3 R^2 + 128 l^2 r^4 R^2 +$$
$$384\sqrt{3}\, l r^5 R^2 + 288 r^6 R^2 + 512 l^2 r^3 R^3 + 512\sqrt{3}\, l r^4 R^3 + 768 r^5 R^3 + 768 r^4 R^4\Big)\Big\}$$

$$\Big\{\text{X18, 2nd NAPOLEON POINT, X100,}$$
$$\text{ANTICOMPLEMENT OF FEUERBACH POINT}, \frac{1}{(2 r - R)\Big(3 l^2 - 10\sqrt{3}\, l r - 3 r^2 - 12 r R\Big)^2}$$
$$3\Big(8\sqrt{3}\, l^5 r^2 - 64 l^4 r^3 + 16\sqrt{3}\, l^3 r^4 + 64 l^2 r^5 + 8\sqrt{3}\, l r^6 - 3 l^6 R + 14\sqrt{3}\, l^5 r R -$$
$$51 l^4 r^2 R - 84\sqrt{3}\, l^3 r^3 R + 467 l^2 r^4 R + 94\sqrt{3}\, l r^5 R + 3 r^6 R + 60 l^4 r R^2 - 256\sqrt{3}\, l^3 r^2 R^2 +$$
$$720 l^2 r^3 R^2 + 368\sqrt{3}\, l r^4 R^2 + 36 r^5 R^2 - 208 l^2 r^2 R^3 + 480\sqrt{3}\, l r^3 R^3 + 144 r^4 R^3 + 192 r^3 R^4\Big)\Big\}$$

$$\Big\{\text{X19, CLAWSON POINT, X20, DE LONGCHAMPS POINT},$$
$$-\frac{1}{\Big(l^2 - r^2 - 6 r R - 8 R^2\Big)^2}\Big(l^6 - 5 l^4 r^2 + 7 l^2 r^4 - 3 r^6 - 24 l^4 r R + 72 l^2 r^3 R - 48 r^5 R - 36 l^4 R^2 +$$
$$288 l^2 r^2 R^2 - 316 r^4 R^2 + 528 l^2 r R^3 - 1104 r^3 R^3 + 368 l^2 R^4 - 2176 r^2 R^4 - 2304 r R^5 - 1024 R^6\Big)\Big\}$$

$$\{X19, \text{CLAWSON POINT}, X21, \text{SCHIFFLER POINT},$$
$$-\left(\left(R\left(2 l^6 r+14 l^4 r^3-18 l^2 r^5+2 r^7+5 l^6 R+43 l^4 r^2 R-141 l^2 r^4 R+29 r^6 R+24 l^4 r R^2-416 l^2 r^3 R^2+168 r^5 R^2-20 l^4 R^3-560 l^2 r^2 R^3+500 r^4 R^3-304 l^2 r R^4+816 r^3 R^4-16 l^2 R^5+704 r^2 R^5+256 r R^6\right)\right)\Big/\left((2 r+3 R)^2\left(-l^2+r^2+6 r R+8 R^2\right)^2\right)\right)\}$$

$$\{X19, \text{CLAWSON POINT}, X22, \text{ExeterPoint}, -\frac{1}{\left(l^2-r^2-6 r R-8 R^2\right)^2\left(l^2-r^2-4 r R-3 R^2\right)^2}$$
$$R\left(4 l^8 r-12 l^6 r^3+12 l^4 r^5-4 l^2 r^7+2 l^8 R-54 l^6 r^2 R+102 l^4 r^4 R-50 l^2 r^6 R-60 l^6 r R^2+312 l^4 r^3 R^2-252 l^2 r^5 R^2-11 l^6 R^3+407 l^4 r^2 R^3-653 l^2 r^4 R^3+r^6 R^3+200 l^4 r R^4-920 l^2 r^3 R^4+16 r^5 R^4+12 l^4 R^5-688 l^2 r^2 R^5+100 r^4 R^5-240 l^2 r R^6+304 r^3 R^6-16 l^2 R^7+448 r^2 R^7+256 r R^8\right)\}$$

$$\{X19, \text{CLAWSON POINT}, X23, \text{FarOutPoint},$$
$$-\left(\left(R\left(8 l^6 r-16 l^4 r^3+8 l^2 r^5+3 l^6 R-71 l^4 r^2 R+69 l^2 r^4 R-r^6 R-88 l^4 r R^2+232 l^2 r^3 R^2-16 r^5 R^2-12 l^4 R^3+368 l^2 r^2 R^3-100 r^4 R^3+240 l^2 r R^4-304 r^3 R^4+16 l^2 R^5-448 r^2 R^5-256 r R^6\right)\right)\Big/\left(\left(2 l^2-2 r^2-8 r R-9 R^2\right)\left(l^2-r^2-6 r R-8 R^2\right)^2\right)\right)\}$$

$$\{X19, \text{CLAWSON POINT}, X24,$$
$$\text{PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE}, -\left(\left((l-r-2 R)^2 R (l+r+2 R)^2\left(4 l^4 r-4 l^2 r^3+2 l^4 R-18 l^2 r^2 R-28 l^2 r R^2-5 l^2 R^3-r^2 R^3-8 r R^4-16 R^5\right)\right)\Big/\left(\left(l^2-r^2-6 r R-8 R^2\right)^2\left(l^2-r^2-4 r R-5 R^2\right)^2\right)\right)\}$$

$$\{X19, \text{CLAWSON POINT}, X25, \text{HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES},$$
$$-\left(\left((l-r-2 R)^2 R (l+r+2 R)^2\left(4 l^4 r-4 l^2 r^3+l^4 R-18 l^2 r^2 R+r^4 R-36 l^2 r R^2+12 r^3 R^2-4 l^2 R^3+48 r^2 R^3+64 r R^4\right)\right)\Big/\left(\left(l^2-r^2-6 r R-8 R^2\right)^2\left(l^2-r^2-4 r R-6 R^2\right)^2\right)\right)\}$$

$$\{X19, \text{CLAWSON POINT}, X26, \text{CIRCUMCENTER OF THE TANGENTIAL TRIANGLE},$$
$$-\frac{1}{(l-r-2 R)^2 (l+r+2 R)^2\left(l^2-r^2-6 r R-8 R^2\right)^2}$$
$$R\left(4 l^8 r-12 l^6 r^3+12 l^4 r^5-4 l^2 r^7+2 l^8 R-54 l^6 r^2 R+102 l^4 r^4 R-50 l^2 r^6 R-68 l^6 r R^2+328 l^4 r^3 R^2-260 l^2 r^5 R^2-16 l^6 R^3+480 l^4 r^2 R^3-720 l^2 r^4 R^3+288 l^4 r R^4-1120 l^2 r^3 R^4+31 l^4 R^5-926 l^2 r^2 R^5-r^4 R^5-308 l^2 r R^6-12 r^3 R^6+16 l^2 R^7-52 r^2 R^7-96 r R^8-64 R^9\right)\}$$

$$\{X19, \text{CLAWSON POINT}, X27, \text{CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER},$$
$$-\left(\left((l-r-2 R)^2 (l+r+2 R)^2\left(l^6+3 l^4 r^2+3 l^2 r^4+r^6+8 l^4 r R-8 l^2 r^3 R+16 r^5 R-4 l^4 R^2-80 l^2 r^2 R^2+100 r^4 R^2-112 l^2 r R^3+304 r^3 R^3-16 l^2 R^4+448 r^2 R^4+256 r R^5\right)\right)\Big/\left(\left(l^2-3 r^2-12 r R-12 R^2\right)^2\left(l^2-r^2-6 r R-8 R^2\right)^2\right)\right)\}$$

$$\{X19, \text{CLAWSON POINT}, X28, \text{CEVAPOINT OF } X(19) \text{ AND } X(25),$$
$$-\left(\left((l-r-2 R)^2 R (l+r+2 R)^2\left(3 l^4 r-4 l^2 r^3+r^5+l^4 R-23 l^2 r^2 R+12 r^4 R-32 l^2 r R^2+52 r^3 R^2-4 l^2 R^3+96 r^2 R^3+64 r R^4\right)\right)\Big/\left(\left(l^2-r^2-6 r R-8 R^2\right)^2\left(l^2-r^2-5 r R-6 R^2\right)^2\right)\right)\}$$

$$\{X19, \text{CLAWSON POINT}, X29, \text{CEVAPOINT OF INCENTER AND ORTHOCENTER},$$
$$-\left(\left((l-r-2 R)^2 (l+r+2 R)^2\left(5 l^6+7 l^4 r^2-l^2 r^4-3 r^6+24 l^4 r R-40 l^2 r^3 R-32 r^5 R-20 l^4 R^2-208 l^2 r^2 R^2-108 r^4 R^2-272 l^2 r R^3-80 r^3 R^3-16 l^2 R^4+192 r^2 R^4+256 r R^5\right)\right)\Big/\left(\left(3 l^2-r^2-8 r R-12 R^2\right)^2\left(l^2-r^2-6 r R-8 R^2\right)^2\right)\right)\}$$

$$\{X19, \text{CLAWSON POINT}, X30, \text{EulerInfinityPoint}, \infty\}$$

$$\{X19, \text{CLAWSON POINT}, X31, \text{SecondPowerPoint},$$
$$-\left(\left(4 R\left(2 l^8 r-10 l^6 r^3+14 l^4 r^5-6 l^2 r^7+l^8 R-36 l^6 r^2 R+106 l^4 r^4 R-64 l^2 r^6 R+r^8 R-32 l^6 r R^2+264 l^4 r^3 R^2-296 l^2 r^5 R^2+16 r^7 R^2-4 l^6 R^3+252 l^4 r^2 R^3-684 l^2 r^4 R^3+100 r^6 R^3+80 l^4 r R^4-736 l^2 r^3 R^4+304 r^5 R^4-272 l^2 r^2 R^5+448 r^4 R^5+256 r^3 R^6\right)\right)\Big/\left(\left(l^2-3 r^2-6 r R\right)^2\left(l^2-r^2-6 r R-8 R^2\right)^2\right)\right)\}$$

$$\{X19,\ \text{CLAWSON POINT},\ X32,\ \text{ThirdPowerPoint},\ -\left(\left(4 l^4 R \left(2 l^8 r - 20 l^6 r^3 + 56 l^4 r^5 - 44 l^2 r^7 + 6 r^9 + l^8 R - 48 l^6 r^2 R + 286 l^4 r^4 R - 400 l^2 r^6 R + 97 r^8 R - 36 l^6 r R^2 + 524 l^4 r^3 R^2 - 1436 l^2 r^5 R^2 + 628 r^7 R^2 - 4 l^6 R^3 + 392 l^4 r^2 R^3 - 2404 l^2 r^4 R^3 + 2064 r^6 R^3 + 96 l^4 r R^4 - 1888 l^2 r^3 R^4 + 3584 r^5 R^4 - 576 l^2 r^2 R^5 + 3072 r^4 R^5 + 1024 r^3 R^6\right)\right) / \left(\left(l^2 - 2 l r - r^2 - 4 r R\right)^2 \left(l^2 + 2 l r - r^2 - 4 r R\right)^2 \left(l^2 - r^2 - 6 r R - 8 R^2\right)^2\right)\right)\}$$

$$\{X19,\ \text{CLAWSON POINT},\ X33,\ \text{PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES},\ -\left(\left(4 (l - r - 2 R)^2 R (l + r + 2 R)^2 \left(4 l^4 r - 4 l^2 r^3 + l^4 R - 18 l^2 r^2 R + r^4 R - 36 l^2 r R^2 + 12 r^3 R^2 - 4 l^2 R^3 + 48 r^2 R^3 + 64 r R^4\right)\right) / \left(\left(l^2 - r^2 - 6 r R - 8 R^2\right)^2 \left(l^2 - r^2 - 2 r R - 4 R^2\right)^2\right)\right)\}$$

$$\{X19,\ \text{CLAWSON POINT},\ X34,\ X(4)\text{-BETH CONJUGATE OF } X(4),\ -\left(\left(4 (l - r - 2 R)^2 R (l + r + 2 R)^2 \left(2 l^4 r - 4 l^2 r^3 + 2 r^5 + l^4 R - 22 l^2 r^2 R + 21 r^4 R - 28 l^2 r R^2 + 76 r^3 R^2 - 4 l^2 R^3 + 112 r^2 R^3 + 64 r R^4\right)\right) / \left(\left(l^2 - r^2 - 6 r R - 8 R^2\right)^2 \left(l^2 - r^2 - 6 r R - 4 R^2\right)^2\right)\right)\}$$

$$\{X19,\ \text{CLAWSON POINT},\ X35,\ \{X(1), X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),\ -\left(\left(4 R \left(4 l^4 r^3 - 4 l^2 r^5 + 10 l^4 r^2 R - 26 l^2 r^4 R + 7 l^4 r R^2 - 68 l^2 r^3 R^2 + r^5 R^2 + l^4 R^3 - 87 l^2 r^2 R^3 + 12 r^4 R^3 - 48 l^2 r R^4 + 52 r^3 R^4 - 4 l^2 R^5 + 96 r^2 R^5 + 64 r R^6\right)\right) / \left((2 r + R)^2 \left(-l^2 + r^2 + 6 r R + 8 R^2\right)^2\right)\right)\}$$

$$\{X19,\ \text{CLAWSON POINT},\ X36,\ \text{INVERSE-IN-CIRCUMCIRCLE OF INCENTER},\ \left(4 R \left(-2 l^4 r^2 + 2 l^2 r^4 + l^4 r R + 6 l^2 r^3 R + r^5 R + l^4 R^2 - 7 l^2 r^2 R^2 + 12 r^4 R^2 - 24 l^2 r R^3 + 52 r^3 R^3 - 4 l^2 R^4 + 96 r^2 R^4 + 64 r R^5\right)\right) / \left((2 r - R) \left(-l^2 + r^2 + 6 r R + 8 R^2\right)^2\right)\}$$

$$\{X19,\ \text{CLAWSON POINT},\ X37,\ \text{CrosspointOfIncenterAndCentroid},\ -\frac{4 l^4 R \left(4 l^4 r - 4 l^2 r^3 + l^4 R - 18 l^2 r^2 R + r^4 R - 36 l^2 r R^2 + 12 r^3 R^2 - 4 l^2 R^3 + 48 r^2 R^3 + 64 r R^4\right)}{\left(l^2 + r^2 + 4 r R\right)^2 \left(l^2 - r^2 - 6 r R - 8 R^2\right)^2}\}$$

$$\{X19,\ \text{CLAWSON POINT},\ X38,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(75),\ -\frac{1}{\left(l^2 + r^2 - 2 r R\right)^2 \left(l^2 - r^2 - 6 r R - 8 R^2\right)^2} 4 R \left(4 l^8 r - 10 l^6 r^3 + 10 l^4 r^5 - 6 l^2 r^7 + 2 r^9 + l^8 R - 60 l^6 r^2 R + 130 l^4 r^4 R - 104 l^2 r^6 R + 41 r^8 R - 48 l^6 r R^2 + 464 l^4 r^3 R^2 - 680 l^2 r^5 R^2 + 344 r^7 R^2 - 4 l^6 R^3 + 492 l^4 r^2 R^3 - 1948 l^2 r^4 R^3 + 1508 r^6 R^3 + 112 l^4 r R^4 - 2368 l^2 r^3 R^4 + 3632 r^5 R^4 - 912 l^2 r^2 R^5 + 4544 r^4 R^5 + 2304 r^3 R^6\right)\}$$

$$\{X19,\ \text{CLAWSON POINT},\ X39,\ \text{BrocardMidpoint},\ -\left(\left(4 l^4 R \left(2 l^8 r + 4 l^6 r^3 - 4 l^2 r^7 - 2 r^9 + l^8 R - 32 l^6 r^2 R - 34 l^4 r^4 R + 32 l^2 r^6 R - 31 r^8 R - 36 l^6 r R^2 + 172 l^4 r^3 R^2 + 100 l^2 r^5 R^2 - 172 r^7 R^2 - 4 l^6 R^3 + 328 l^4 r^2 R^3 - 420 l^2 r^4 R^3 - 368 r^6 R^3 + 96 l^4 r R^4 - 1120 l^2 r^3 R^4 - 576 l^2 r^2 R^5 + 1024 r^4 R^5 + 1024 r^3 R^6\right)\right) / \left(\left(l^2 - r^2 - 6 r R - 8 R^2\right)^2 \left(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\right)^2\right)\right)\}$$

$$\{X19,\ \text{CLAWSON POINT},\ X40,\ \text{BEVAN POINT},\ -\frac{4 R^2 (r + 2 R)^2 \left(3 l^2 - r^2 - 8 r R - 16 R^2\right)}{\left(l^2 - r^2 - 6 r R - 8 R^2\right)^2}\}$$

$$\{X19,\ \text{CLAWSON POINT},\ X41,\ X(6)\text{-CEVA CONJUGATE OF } X(31),\ -\left(\left(16 l^4 R \left(3 l^4 r^3 - 4 l^2 r^5 + r^7 + 6 l^4 r^2 R - 31 l^2 r^4 R + 15 r^6 R + 4 l^4 r R^2 - 84 l^2 r^3 R^2 + 88 r^5 R^2 + l^4 R^3 - 86 l^2 r^2 R^3 + 253 r^4 R^3 - 36 l^2 r R^4 + 364 r^3 R^4 - 4 l^2 R^5 + 240 r^2 R^5 + 64 r R^6\right)\right) / \left(\left(l^2 - r^2 - 6 r R - 8 R^2\right)^2 \left(3 l^2 r - r^3 + 2 l^2 R - 8 r^2 R - 16 r R^2\right)^2\right)\right)\}$$

$$\{X19,\ \text{CLAWSON POINT},\ X42,\ \text{CROSSPOINT OF INCENTER AND SYMMEDIAN POINT},\ -\left(\left(4 R \left(2 l^8 r + 2 l^6 r^3 - 2 l^4 r^5 - 2 l^2 r^7 + l^8 R - 8 l^6 r^2 R - 30 l^4 r^4 R - 4 l^2 r^6 R + r^8 R - 24 l^6 r R^2 - 72 l^4 r^3 R^2 + 48 l^2 r^5 R^2 + 16 r^7 R^2 - 4 l^6 R^3 - 20 l^4 r^2 R^3 + 244 l^2 r^4 R^3 + 100 r^6 R^3 + 48 l^4 r R^4 + 416 l^2 r^3 R^4 + 304 r^5 R^4 + 240 l^2 r^2 R^5 + 448 r^4 R^5 + 256 r^3 R^6\right)\right) / \left(\left(l^2 + r^2 - 2 r R\right)^2 \left(l^2 - r^2 - 6 r R - 8 R^2\right)^2\right)\right)\}$$

$$\{X19,\ \text{CLAWSON POINT},\ X43,\ X(6)\text{-CEVA CONJUGATE OF } X(1),\ -\left(\left(4 R \left(l^8 r + 2 l^6 r^3 - 2 l^2 r^7 - r^9 + l^8 R - 9 l^6 r^2 R - 37 l^4 r^4 R + 21 l^2 r^6 R - 16 r^8 R - 24 l^6 r R^2 - 20 l^4 r^3 R^2 + 160 l^2 r^5 R^2 - 100 r^7 R^2 - 4 l^6 R^3 + 72 l^4 r^2 R^3 + 348 l^2 r^4 R^3 - 304 r^6 R^3 + 64 l^4 r R^4 + 256 l^2 r^3 R^4 - 448 r^5 R^4 - 256 r^4 R^5\right)\right) / \left(\left(l^2 + r^2 - 8 r R\right)^2 \left(l^2 - r^2 - 6 r R - 8 R^2\right)^2\right)\right)\}$$

$$\left\{X19,\ \text{CLAWSON POINT},\ X44,\ X(6)\text{-LINE CONJUGATE OF } X(1),\ -\frac{4 l^4 R \left(-4 l^2 r^3+4 r^5+l^4 R-2 l^2 r^2 R+33 r^4 R-20 l^2 r R^2+76 r^3 R^2-4 l^2 R^3+48 r^2 R^3+64 r R^4\right)}{\left(l^2-3 r^2-12 r R\right)^2 \left(l^2-r^2-6 r R-8 R^2\right)^2}\right\}$$

$$\left\{X19,\ \text{CLAWSON POINT},\ X45,\ X(9)\text{-BETH CONJUGATE OF } X(1),\ -\frac{4 l^4 R \left(6 l^4 r-4 l^2 r^3-2 r^5+l^4 R+10 l^2 r^2 R-27 r^4 R-44 l^2 r R^2-116 r^3 R^2-4 l^2 R^3-144 r^2 R^3+64 r R^4\right)}{\left(l^2+3 r^2+12 r R\right)^2 \left(l^2-r^2-6 r R-8 R^2\right)^2}\right\}$$

$$\left\{X19,\ \text{CLAWSON POINT},\ X46,\ X(4)\text{-CEVA CONJUGATE OF } X(1),\ -\left(\left(4 R^2 \left(-l^4 r^2+3 l^2 r^4+l^4 r R+6 l^2 r^3 R+r^5 R+l^4 R^2-11 l^2 r^2 R^2+12 r^4 R^2-24 l^2 r R^3+52 r^3 R^3-4 l^2 R^4+96 r^2 R^4+64 r R^5\right)\right) \Big/ \left((r-R)^2 \left(-l^2+r^2+6 r R+8 R^2\right)^2\right)\right)\right\}$$

$$\left\{X19,\ \text{CLAWSON POINT},\ X47,\ X(110)\text{-BETH CONJUGATE OF } X(34),\ -\frac{1}{\left(l^2-r^2-6 r R-8 R^2\right)^2 \left(l^2-3 r^2-6 r R-2 R^2\right)^2} 4 R \left(2 l^8 r-10 l^6 r^3+14 l^4 r^5-6 l^2 r^7+l^8 R-36 l^6 r^2 R+106 l^4 r^4 R-64 l^2 r^6 R+r^8 R-42 l^6 r R^2+294 l^4 r^3 R^2-318 l^2 r^5 R^2+18 r^7 R^2-8 l^6 R^3+380 l^4 r^2 R^3-872 l^2 r^4 R^3+132 r^6 R^3+220 l^4 r R^4-1336 l^2 r^3 R^4+508 r^5 R^4+20 l^4 R^5-1100 l^2 r^2 R^5+1104 r^4 R^5-416 l^2 r R^6+1360 r^3 R^6-16 l^2 R^7+896 r^2 R^7+256 r R^8\right)\right\}$$

$$\left\{X19,\ \text{CLAWSON POINT},\ X48,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(63),\ -\frac{16 l^4 R \left(3 l^4 r-4 l^2 r^3+r^5+l^4 R-23 l^2 r^2 R+12 r^4 R-32 l^2 r R^2+52 r^3 R^2-4 l^2 R^3+96 r^2 R^3+64 r R^4\right)}{\left(l^2-r^2-6 r R-8 R^2\right)^2 \left(3 l^2-r^2-6 r R-8 R^2\right)^2}\right\}$$

$$\left\{X19,\ \text{CLAWSON POINT},\ X49,\ \text{CENTER OF SINE-TRIPLE-ANGLE CIRCLE},\ -\frac{1}{\left(l^2-r^2-6 r R-8 R^2\right)^2 \left(2 l^2-2 r^2-8 r R-7 R^2\right)^2} R \left(24 l^8 r-56 l^6 r^3+40 l^4 r^5-8 l^2 r^7+9 l^8 R-296 l^6 r^2 R+406 l^4 r^4 R-120 l^2 r^6 R+r^8 R-400 l^6 r R^2+1548 l^4 r^3 R^2-784 l^2 r^5 R^2+20 r^7 R^2-72 l^6 R^3+2656 l^4 r^2 R^3-2784 l^2 r^4 R^3+168 r^6 R^3+1820 l^4 r R^4-5596 l^2 r^3 R^4+768 r^5 R^4+179 l^4 R^5-6034 l^2 r^2 R^5+2063 r^4 R^5-2804 l^2 r R^6+3252 r^3 R^6-128 l^2 R^7+2764 r^2 R^7+928 r R^8-64 R^9\right)\right\}$$

$$\left\{X19,\ \text{CLAWSON POINT},\ X50,\ X(74)\text{-CEVA CONJUGATE OF } X(184),\ -\left(\left(4 l^4 R \left(2 l^8 r-20 l^6 r^3+56 l^4 r^5-44 l^2 r^7+6 r^9+l^8 R-48 l^6 r^2 R+286 l^4 r^4 R-400 l^2 r^6 R+97 r^8 R-48 l^6 r R^2+596 l^4 r^3 R^2-1520 l^2 r^5 R^2+652 r^7 R^2-10 l^6 R^3+602 l^4 r^2 R^3-3070 l^2 r^4 R^3+2382 r^6 R^3+306 l^4 r R^4-3508 l^2 r^3 R^4+5186 r^5 R^4+33 l^4 R^5-2238 l^2 r^2 R^5+6909 r^4 R^5-732 l^2 r R^6+5548 r^3 R^6-36 l^2 R^7+2544 r^2 R^7+576 r R^8\right)\right) \Big/ \left(\left(l^2-r^2-6 r R-8 R^2\right)^2 \left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-3 l^2 R^2+19 r^2 R^2+12 r R^3\right)^2\right)\right)\right\}$$

$$\left\{X19,\ \text{CLAWSON POINT},\ X51,\ \text{CENTROID OF ORTHIC TRIANGLE},\ -\frac{1}{36 R^2 \left(-l^2+r^2+6 r R+8 R^2\right)^2} \left(l^8+16 l^6 r^2-34 l^4 r^4+16 l^2 r^6+r^8+4 l^6 r R-180 l^4 r^3 R+156 l^2 r^5 R+20 r^7 R+4 l^6 R^2-304 l^4 r^2 R^2+564 l^2 r^4 R^2+168 r^6 R^2-96 l^4 r R^3+864 l^2 r^3 R^3+768 r^5 R^3-16 l^4 R^4+384 l^2 r^2 R^4+2064 r^4 R^4-192 l^2 r R^5+3264 r^3 R^5-64 l^2 R^6+2816 r^2 R^6+1024 r R^7\right)\right\}$$

$$\left\{X19,\ \text{CLAWSON POINT},\ X52,\ \text{ORTHOCENTER OF ORTHIC TRIANGLE},\ \frac{1}{4 R^2 \left(-l^2+r^2+6 r R+8 R^2\right)^2} \left(l^8-16 l^6 r^2+30 l^4 r^4-16 l^2 r^6+r^8-28 l^6 r R+204 l^4 r^3 R-196 l^2 r^5 R+20 r^7 R-20 l^6 R^2+448 l^4 r^2 R^2-932 l^2 r^4 R^2+168 r^6 R^2+368 l^4 r R^3-2160 l^2 r^3 R^3+768 r^5 R^3+116 l^4 R^4-2504 l^2 r^2 R^4+2068 r^4 R^4-1328 l^2 r R^5+3312 r^3 R^5-256 l^2 R^6+3024 r^2 R^6+1408 r R^7+256 R^8\right)\right\}$$

$$\{X19,\ \text{CLAWSON POINT},\ X53,\ \text{SYMMEDIAN POINT OF ORTHIC TRIANGLE},$$
$$\Big(4 l^4 (l-r-2R)^2 (l+r+2R)^2 \big(2 l^4 r^2 - 12 l^2 r^4 + 2 r^6 - 2 l^4 r R - 4 l^2 r^3 R + 14 r^5 R - l^4 R^2 + 14 l^2 r^2 R^2 + 11 r^4 R^2 + 28 l^2 r R^3 - 76 r^3 R^3 + 4 l^2 R^4 - 112 r^2 R^4 - 64 r R^5\big)\Big) \Big/ \Big(\big(l^2 - r^2 - 6 r R - 8 R^2\big)^2 \big(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 4 l^2 R^2 + 20 r^2 R^2 + 16 r R^3\big)^2\Big)\}$$

$$\{X19,\ \text{CLAWSON POINT},\ X54,\ \text{KosnitaPoint},$$
$$-\frac{1}{\big(l^2 - r^2 - 6 r R - 8 R^2\big)^2 \big(2 l^2 - 2 r^2 - 8 r R - 5 R^2\big)^2} R \big(24 l^8 r - 56 l^6 r^3 + 40 l^4 r^5 - 8 l^2 r^7 + 12 l^8 R - 300 l^6 r^2 R + 404 l^4 r^4 R - 116 l^2 r^6 R - 396 l^6 r R^2 + 1488 l^4 r^3 R^2 - 708 l^2 r^5 R^2 - 85 l^6 R^3 + 2401 l^4 r^2 R^3 - 2299 l^2 r^4 R^3 - r^6 R^3 + 1536 l^4 r R^4 - 4144 l^2 r^3 R^4 - 16 r^5 R^4 + 152 l^4 R^5 - 3888 l^2 r^2 R^5 - 104 r^4 R^5 - 1440 l^2 r R^6 - 352 r^3 R^6 + 48 l^2 R^7 - 656 r^2 R^7 - 640 r R^8 - 256 R^9\big)\}$$

$$\{X19,\ \text{CLAWSON POINT},\ X55,\ \text{INSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),$$
$$-\frac{R (r+2R)^2 \big(4 l^4 r - 4 l^2 r^3 + l^4 R - 18 l^2 r^2 R + r^4 R - 36 l^2 r R^2 + 12 r^3 R^2 - 4 l^2 R^3 + 48 r^2 R^3 + 64 r R^4\big)}{(r+R)^2 \big(-l^2 + r^2 + 6 r R + 8 R^2\big)^2}\}$$

$$\{X19,\ \text{CLAWSON POINT},\ X56,\ \text{EXSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),$$
$$\Big(R \big(-4 l^4 r^3 + 4 l^2 r^5 + 11 l^4 r^2 R + 2 l^2 r^4 R + 3 r^6 R - 4 l^4 r R^2 - 52 l^2 r^3 R^2 + 32 r^5 R^2 - 4 l^4 R^3 - 36 l^2 r^2 R^3 + 108 r^4 R^3 + 96 l^2 r R^4 + 80 r^3 R^4 + 16 l^2 R^5 - 192 r^2 R^5 - 256 r R^6\big)\Big) \Big/ \Big((r-R)^2 \big(-l^2 + r^2 + 6 r R + 8 R^2\big)^2\Big)\}$$

$$\{X19,\ \text{CLAWSON POINT},\ X57,\ \text{ISOGONAL CONJUGATE OF } X(9),$$
$$-\Big(\Big(4 R^2 \big(-2 l^4 r^2 + 3 l^2 r^4 + r^6 + 8 l^4 r R - 8 l^2 r^3 R + 16 r^5 R + 4 l^4 R^2 - 80 l^2 r^2 R^2 + 100 r^4 R^2 - 112 l^2 r R^3 + 304 r^3 R^3 - 16 l^2 R^4 + 448 r^2 R^4 + 256 r R^5\big)\Big) \Big/ \Big((r-2R)^2 \big(-l^2 + r^2 + 6 r R + 8 R^2\big)^2\Big)\Big)\}$$

$$\{X19,\ \text{CLAWSON POINT},\ X58,\ \text{ISOGONAL CONJUGATE OF } X(10),$$
$$-\Big(\Big(4 R \big(2 l^8 r - 10 l^6 r^3 + 14 l^4 r^5 - 6 l^2 r^7 + l^8 R - 26 l^6 r^2 R + 76 l^4 r^4 R - 42 l^2 r^6 R - r^8 R - 28 l^6 r R^2 + 148 l^4 r^3 R^2 - 124 l^2 r^5 R^2 - 12 r^7 R^2 - 4 l^6 R^3 + 128 l^4 r^2 R^3 - 192 l^2 r^4 R^3 - 52 r^6 R^3 + 64 l^4 r R^4 - 128 l^2 r^3 R^4 - 96 r^5 R^4 - 64 r^4 R^5\big)\Big) \Big/ \Big(\big(l^2 - 3 r^2 - 4 r R\big)^2 \big(l^2 - r^2 - 6 r R - 8 R^2\big)^2\Big)\Big)\}$$

$$\{X19,\ \text{CLAWSON POINT},\ X59,\ \text{ISOGONAL CONJUGATE OF } X(11),$$
$$\frac{1}{(2r-R) \big(-l^2 + r^2 + 5 r R + 4 R^2\big)^2 \big(-l^2 + r^2 + 6 r R + 8 R^2\big)^2}$$
$$R \big(-12 l^8 r^2 + 28 l^6 r^4 - 20 l^4 r^6 + 4 l^2 r^8 + 2 l^8 r R + 154 l^6 r^3 R - 226 l^4 r^5 R + 70 l^2 r^7 R + 4 l^8 R^2 + 137 l^6 r^2 R^2 - 869 l^4 r^4 R^2 + 487 l^2 r^6 R^2 + r^8 R^2 - 136 l^6 r R^3 - 1152 l^4 r^3 R^3 + 1648 l^2 r^5 R^3 + 24 r^7 R^3 - 48 l^6 R^4 + 252 l^4 r^2 R^4 + 2432 l^2 r^4 R^4 + 244 r^6 R^4 + 1248 l^4 r R^5 - 240 l^2 r^3 R^5 + 1360 r^5 R^5 + 192 l^4 R^6 - 4752 l^2 r^2 R^6 + 4480 r^4 R^6 - 3968 l^2 r R^7 + 8704 r^3 R^7 - 256 l^2 R^8 + 9216 r^2 R^8 + 4096 r R^9\big)\}$$

$$\{X19,\ \text{CLAWSON POINT},\ X60,\ \text{ISOGONAL CONJUGATE OF } X(12),$$
$$-\frac{1}{\big(l^2 - r^2 - 6 r R - 8 R^2\big)^2 \big(2 l^2 r - 2 r^3 + l^2 R - 7 r^2 R - 7 r R^2\big)^2}$$
$$R \big(24 l^8 r^3 - 56 l^6 r^5 + 40 l^4 r^7 - 8 l^2 r^9 + 40 l^8 r^2 R - 320 l^6 r^4 R + 376 l^4 r^6 R - 96 l^2 r^8 R + 22 l^8 r R^2 - 656 l^6 r^3 R^2 + 1448 l^4 r^5 R^2 - 528 l^2 r^7 R^2 + 2 r^9 R^2 + 4 l^8 R^3 - 539 l^6 r^2 R^3 + 2895 l^4 r^4 R^3 - 1669 l^2 r^6 R^3 + 29 r^8 R^3 - 176 l^6 r R^4 + 3072 l^4 r^3 R^4 - 3192 l^2 r^5 R^4 + 168 r^7 R^4 - 16 l^6 R^5 + 1548 l^4 r^2 R^5 - 3632 l^2 r^4 R^5 + 500 r^6 R^5 + 288 l^4 r R^6 - 2224 l^2 r^3 R^6 + 816 r^5 R^6 - 528 l^2 r^2 R^7 + 704 r^4 R^7 + 256 r^3 R^8\big)\}$$

$$\{X19,\ \text{CLAWSON POINT},\ X61,\ \text{ISOGONAL CONJUGATE OF } X(17),$$
$$-\frac{1}{\big(3 l^2 + 2\sqrt{3}\, l r - 3 r^2 - 12 r R\big)^2 \big(l^2 - r^2 - 6 r R - 8 R^2\big)^2}$$
$$12 l^2 R \big(6 l^6 r + 6\sqrt{3}\, l^5 r^2 - 8 l^4 r^3 - 8\sqrt{3}\, l^3 r^4 + 2 l^2 r^5 + 2\sqrt{3}\, l r^6 + 3 l^6 R + 4\sqrt{3}\, l^5 r R - 63 l^4 r^2 R - 52\sqrt{3}\, l^3 r^3 R + 45 l^2 r^4 R + 24\sqrt{3}\, l r^5 R - r^6 R - 84 l^4 r R^2 - 72\sqrt{3}\, l^3 r^2 R^2 + 208 l^2 r^3 R^2 + 104\sqrt{3}\, l r^4 R^2 - 12 r^5 R^2 - 12 l^4 R^3 - 16\sqrt{3}\, l^3 r R^3 + 336 l^2 r^2 R^3 + 192\sqrt{3}\, l r^3 R^3 - 52 r^4 R^3 + 192 l^2 r R^4 + 128\sqrt{3}\, l r^2 R^4 - 96 r^3 R^4 - 64 r^2 R^5\big)\}$$

$$\Big\{X19,\ \text{CLAWSON POINT},\ X62,\ \text{ISOGONAL CONJUGATE OF } X(18),$$

$$-\frac{1}{\left(3 l^2-2\sqrt{3}\, l\, r-3 r^2-12 r R\right)^2 \left(l^2-r^2-6 r R-8 R^2\right)^2}$$

$$12 l^2 R \Big(6 l^6 r-6\sqrt{3}\, l^5 r^2-8 l^4 r^3+8\sqrt{3}\, l^3 r^4+2 l^2 r^5-2\sqrt{3}\, l\, r^6+3 l^6 R-$$
$$4\sqrt{3}\, l^5 r R-63 l^4 r^2 R+52\sqrt{3}\, l^3 r^3 R+45 l^2 r^4 R-24\sqrt{3}\, l\, r^5 R-r^6 R-84 l^4 r R^2+$$
$$72\sqrt{3}\, l^3 r^2 R^2+208 l^2 r^3 R^2-104\sqrt{3}\, l\, r^4 R^2-12 r^5 R^2-12 l^4 R^3+16\sqrt{3}\, l^3 r R^3+$$
$$336 l^2 r^2 R^3-192\sqrt{3}\, l\, r^3 R^3-52 r^4 R^3+192 l^2 r R^4-128\sqrt{3}\, l\, r^2 R^4-96 r^3 R^4-64 r^2 R^5\Big)\Big\}$$

$$\Big\{X19,\ \text{CLAWSON POINT},\ X63,\ \text{ISOGONAL CONJUGATE OF } X(19),$$
$$-\Big(\Big(R^2\Big(l^6+3 l^4 r^2+3 l^2 r^4+r^6+8 l^4 r R-8 l^2 r^3 R+16 r^5 R-4 l^4 R^2-80 l^2 r^2 R^2+100 r^4 R^2-112 l^2 r R^3+$$
$$304 r^3 R^3-16 l^2 R^4+448 r^2 R^4+256 r R^5\Big)\Big)\Big/\Big((r+R)^2\left(-l^2+r^2+6 r R+8 R^2\right)^2\Big)\Big)\Big\}$$

$$\Big\{X19,\ \text{CLAWSON POINT},\ X64,\ \text{ISOGONAL CONJUGATE OF } X(20),$$
$$\Big(4 R (r+2 R)^2\Big(2 l^6 r-4 l^4 r^3+2 l^2 r^5-8 l^6 R-l^4 r^2 R+6 l^2 r^4 R+3 r^6 R+68 l^4 r R^2-68 l^2 r^3 R^2+$$
$$48 r^5 R^2+124 l^4 R^3-420 l^2 r^2 R^3+316 r^4 R^3-864 l^2 r R^4+1104 r^3 R^4-624 l^2 R^5+$$
$$2176 r^2 R^5+2304 r R^6+1024 R^7\Big)\Big)\Big/\Big((l-r-2 R)^2 (l+r+2 R)^2\left(l^2-r^2-6 r R-8 R^2\right)^2\Big)\Big\}$$

$$\Big\{X19,\ \text{CLAWSON POINT},\ X65,$$
$$\text{ORTHOCENTER OF THE INTOUCH TRIANGLE},\ -\frac{1}{R\left(-l^2+r^2+6 r R+8 R^2\right)^2}(r+2 R)^2$$
$$\left(2 l^4 r-4 l^2 r^3+2 r^5+l^4 R-22 l^2 r^2 R+21 r^4 R-28 l^2 r R^2+76 r^3 R^2-4 l^2 R^3+112 r^2 R^3+64 r R^4\right)\Big\}$$

$$\Big\{X19,\ \text{CLAWSON POINT},\ X66,\ \text{ISOGONAL CONJUGATE OF } X(22),$$
$$-\Big(\Big(2 l^{14}-16 l^{12} r^2+50 l^{10} r^4-80 l^8 r^6+70 l^6 r^8-32 l^4 r^{10}+6 l^2 r^{12}-52 l^{12} r R+348 l^{10} r^3 R-$$
$$872 l^8 r^5 R+1048 l^6 r^7 R-612 l^4 r^9 R+140 l^2 r^{11} R-31 l^{12} R^2+798 l^{10} r^2 R^2-3649 l^8 r^4 R^2+$$
$$6468 l^6 r^6 R^2-5025 l^4 r^8 R^2+1438 l^2 r^{10} R^2+r^{12} R^2+676 l^{10} r R^3-7316 l^8 r^3 R^3+21192 l^6 r^5 R^3-$$
$$23112 l^4 r^7 R^3+8532 l^2 r^9 R^3+28 r^{11} R^3+156 l^{10} R^4-7048 l^8 r^2 R^4+39336 l^6 r^4 R^4-64976 l^4 r^6 R^4+$$
$$32188 l^2 r^8 R^4+344 r^{10} R^4-2752 l^8 r R^5+40448 l^6 r^3 R^5-113856 l^4 r^5 R^5+79872 l^2 r^7 R^5+$$
$$2432 r^9 R^5-256 l^8 R^6+20384 l^6 r^2 R^6-120624 l^4 r^4 R^6+129792 l^2 r^6 R^6+10896 r^8 R^6+$$
$$3456 l^6 r R^7-69888 l^4 r^3 R^7+132160 l^2 r^5 R^7+32064 r^7 R^7-16640 l^4 r^2 R^8+75200 l^2 r^4 R^8+$$
$$61952 r^6 R^8+16896 l^2 r^3 R^9+75776 r^5 R^9-1024 l^2 r^2 R^{10}+53248 r^4 R^{10}+16384 r^3 R^{11}\Big)\Big/$$
$$\Big((l-r-2 R)^2 (l+r+2 R)^2\left(l^2-r^2-4 r R\right)^2\left(l^2-r^2-6 r R-8 R^2\right)^2\Big)\Big)\Big\}$$

$$\Big\{X19,\ \text{CLAWSON POINT},\ X67,\ \text{ISOGONAL CONJUGATE OF } X(23),$$
$$-\Big(\Big(3 l^{12}-26 l^{10} r^2+73 l^8 r^4-92 l^6 r^6+53 l^4 r^8-10 l^2 r^{10}-r^{12}-64 l^{10} r R+444 l^8 r^3 R-920 l^6 r^5 R+$$
$$736 l^4 r^7 R-168 l^2 r^9 R-28 r^{11} R-32 l^{10} R^2+856 l^8 r^2 R^2-3472 l^6 r^4 R^2+4160 l^4 r^6 R^2-$$
$$1168 l^2 r^8 R^2-344 r^{10} R^2+552 l^8 r R^3-6128 l^6 r^3 R^3+12392 l^4 r^5 R^3-4384 l^2 r^7 R^3-$$
$$2432 r^9 R^3+76 l^8 R^4-4792 l^6 r^2 R^4+20812 l^4 r^4 R^4-9808 l^2 r^6 R^4-10896 r^8 R^4-1040 l^6 r R^5+$$
$$18896 l^4 r^3 R^5-13888 l^2 r^5 R^5-32064 r^7 R^5+16 l^6 R^6+7296 l^4 r^2 R^6-13248 l^2 r^4 R^6-$$
$$61952 r^6 R^6-8704 l^2 r^3 R^7-75776 r^5 R^7-3072 l^2 r^2 R^8-53248 r^4 R^8-16384 r^3 R^9\Big)\Big/$$
$$\Big(\left(l^2-r^2-4 r R\right)^2\left(2 l^2-2 r^2-8 r R-9 R^2\right)\left(l^2-r^2-6 r R-8 R^2\right)^2\Big)\Big)\Big\}$$

$$\Big\{X19,\ \text{CLAWSON POINT},\ X68,\ \text{PRASOLOV POINT},\ -\frac{1}{(l-r-2 R)^2 (l+r+2 R)^2\left(l^2-r^2-6 r R-8 R^2\right)^2}$$
$$\Big(2 l^{10}-12 l^8 r^2+24 l^6 r^4-20 l^4 r^6+6 l^2 r^8-36 l^8 r R+164 l^6 r^3 R-220 l^4 r^5 R+92 l^2 r^7 R-33 l^8 R^2+$$
$$416 l^6 r^2 R^2-990 l^4 r^4 R^2+608 l^2 r^6 R^2-r^8 R^2+460 l^6 r R^3-2332 l^4 r^3 R^3+2276 l^2 r^5 R^3-20 r^7 R^3+$$
$$196 l^6 R^4-2992 l^4 r^2 R^4+5284 l^2 r^4 R^4-168 r^6 R^4-1952 l^4 r R^5+7712 l^2 r^3 R^5-768 r^5 R^5-516 l^4 R^6+$$
$$6744 l^2 r^2 R^6-2068 r^4 R^6+3120 l^2 r R^7-3312 r^3 R^7+576 l^2 R^8-3024 r^2 R^8-1408 r R^9-256 R^{10}\Big)\Big\}$$

$$\Big\{\text{X19, CLAWSON POINT, X69, SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE,}$$
$$-\frac{1}{\left(l^2-r^2-4\,r\,R\right)^2\left(l^2-r^2-6\,r\,R-8\,R^2\right)^2}$$
$$\left(l^{10}-11\,l^8\,r^2+26\,l^6\,r^4-22\,l^4\,r^6+5\,l^2\,r^8+r^{10}-16\,l^8\,r\,R+136\,l^6\,r^3\,R-200\,l^4\,r^5\,R+\right.$$
$$56\,l^2\,r^7\,R+24\,r^9\,R-4\,l^8\,R^2+216\,l^6\,r^2\,R^2-688\,l^4\,r^4\,R^2+232\,l^2\,r^6\,R^2+244\,r^8\,R^2+$$
$$48\,l^6\,r\,R^3-1168\,l^4\,r^3\,R^3+528\,l^2\,r^5\,R^3+1360\,r^7\,R^3-16\,l^6\,R^4-800\,l^4\,r^2\,R^4+1136\,l^2\,r^4\,R^4+$$
$$\left.4480\,r^6\,R^4+128\,l^4\,r\,R^5+2176\,l^2\,r^3\,R^5+8704\,r^5\,R^5+1792\,l^2\,r^2\,R^6+9216\,r^4\,R^6+4096\,r^3\,R^7\right)\Big\}$$

$$\Big\{\text{X19, CLAWSON POINT, X70, ISOGONAL CONJUGATE OF X(26),}$$
$$-\Big(\Big(2\,l^{14}-16\,l^{12}\,r^2+50\,l^{10}\,r^4-80\,l^8\,r^6+70\,l^6\,r^8-32\,l^4\,r^{10}+6\,l^2\,r^{12}-52\,l^{12}\,r\,R+348\,l^{10}\,r^3\,R-$$
$$872\,l^8\,r^5\,R+1048\,l^6\,r^7\,R-612\,l^4\,r^9\,R+140\,l^2\,r^{11}\,R-40\,l^{12}\,R^2+856\,l^{10}\,r^2\,R^2-3792\,l^8\,r^4\,R^2+$$
$$6640\,l^6\,r^6\,R^2-5128\,l^4\,r^8\,R^2+1464\,l^2\,r^{10}\,R^2+876\,l^{10}\,r\,R^3-8360\,l^8\,r^3\,R^3+23\,152\,l^6\,r^5\,R^3-$$
$$24\,728\,l^4\,r^7\,R^3+9060\,l^2\,r^9\,R^3+309\,l^{10}\,R^4-9713\,l^8\,r^2\,R^4+48\,198\,l^6\,r^4\,R^4-75\,662\,l^4\,r^6\,R^4+$$
$$36\,869\,l^2\,r^8\,R^4-r^{10}\,R^4-5516\,l^8\,r\,R^5+60\,532\,l^6\,r^3\,R^5-152\,412\,l^4\,r^5\,R^5+103\,564\,l^2\,r^7\,R^5-24\,r^9\,R^5-$$
$$1178\,l^8\,R^6+43\,872\,l^6\,r^2\,R^6-202\,476\,l^4\,r^4\,R^6+204\,832\,l^2\,r^6\,R^6-250\,r^8\,R^6+16\,308\,l^6\,r\,R^7-$$
$$172\,264\,l^4\,r^3\,R^7+285\,308\,l^2\,r^5\,R^7-1480\,r^7\,R^7+2355\,l^6\,R^8-87\,583\,l^4\,r^2\,R^8+274\,845\,l^2\,r^4\,R^8-$$
$$5473\,r^6\,R^8-23\,232\,l^4\,r\,R^9+175\,760\,l^2\,r^3\,R^9-13\,072\,r^5\,R^9-2440\,l^4\,R^{10}+69\,072\,l^2\,r^2\,R^{10}-$$
$$20\,104\,r^4\,R^{10}+14\,432\,l^2\,r\,R^{11}-19\,168\,r^3\,R^{11}+1200\,l^2\,R^{12}-10\,384\,r^2\,R^{12}-2688\,r\,R^{13}-256\,R^{14}\Big)\Big/$$
$$\Big(\left(l^2-r^2-6\,r\,R-8\,R^2\right)^2\left(l^4-2\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-6\,l^2\,R^2+22\,r^2\,R^2+24\,r\,R^3+7\,R^4\right)^2\Big)\Big)\Big\}$$

$$\Big\{\text{X19, CLAWSON POINT, X71, ISOGONAL CONJUGATE OF X(27),}$$
$$-\frac{16\,l^4\,R^2\,(r+2\,R)^2\left(3\,l^2-r^2-8\,r\,R-16\,R^2\right)}{\left(l^2-r^2-6\,r\,R-8\,R^2\right)^2\left(l^2+r^2+6\,r\,R+8\,R^2\right)^2}\Big\}$$

$$\Big\{\text{X19, CLAWSON POINT, X72, ISOGONAL CONJUGATE OF X(28),}\ -\frac{1}{R\left(-l^2+r^2+6\,r\,R+8\,R^2\right)^2}$$
$$\left(-l^6\,r+3\,l^4\,r^3-3\,l^2\,r^5+r^7+l^6\,R+10\,l^4\,r^2\,R-27\,l^2\,r^4\,R+16\,r^6\,R+8\,l^4\,r\,R^2-88\,l^2\,r^3\,R^2+104\,r^5\,R^2-\right.$$
$$\left.4\,l^4\,R^3-128\,l^2\,r^2\,R^3+352\,r^4\,R^3-80\,l^2\,r\,R^4+656\,r^3\,R^4-16\,l^2\,R^5+640\,r^2\,R^5+256\,r\,R^6\right)\Big\}$$

$$\Big\{\text{X19, CLAWSON POINT, X73, CROSSPOINT OF INCENTER AND CIRCUMCENTER,}$$
$$-\frac{1}{\left(l^2-r^2-6\,r\,R-8\,R^2\right)^2\left(l^2+r^2-2\,r\,R-4\,R^2\right)^2}$$
$$4\,R\left(2\,l^8\,r+2\,l^6\,r^3-2\,l^4\,r^5-2\,l^2\,r^7+l^8\,R-16\,l^6\,r^2\,R-26\,l^4\,r^4\,R+4\,l^2\,r^6\,R-\right.$$
$$3\,r^8\,R-44\,l^6\,r\,R^2+4\,l^4\,r^3\,R^2+100\,l^2\,r^5\,R^2-44\,r^7\,R^2-12\,l^6\,R^3+240\,l^4\,r^2\,R^3+$$
$$228\,l^2\,r^4\,R^3-248\,r^6\,R^3+320\,l^4\,r\,R^4-224\,l^2\,r^3\,R^4-640\,r^5\,R^4+48\,l^4\,R^5-$$
$$\left.1152\,l^2\,r^2\,R^5-560\,r^4\,R^5-960\,l^2\,r\,R^6+704\,r^3\,R^6-64\,l^2\,R^7+1792\,r^2\,R^7+1024\,r\,R^8\right)\Big\}$$

$$\Big\{\text{X19, CLAWSON POINT, X74, ISOGONAL CONJUGATE OF EULER INFINITY POINT,}$$
$$-\Big(\Big(R\left(4\,l^6\,r-16\,l^4\,r^3+12\,l^2\,r^5+5\,l^6\,R-41\,l^4\,r^2\,R+75\,l^2\,r^4\,R+9\,r^6\,R+48\,l^2\,r^3\,R^2+144\,r^5\,R^2+40\,l^4\,R^3-\right.$$
$$\left.528\,l^2\,r^2\,R^3+936\,r^4\,R^3-1248\,l^2\,r\,R^4+3168\,r^3\,R^4-816\,l^2\,R^5+5904\,r^2\,R^5+5760\,r\,R^6+2304\,R^7\right)\Big)\Big/$$
$$\Big(\left(2\,l^2-2\,r^2-8\,r\,R-9\,R^2\right)\left(l^2-r^2-6\,r\,R-8\,R^2\right)^2\Big)\Big)\Big\}$$

$$\Big\{\text{X19, CLAWSON POINT, X75, ISOTOMIC CONJUGATE OF INCENTER,}$$
$$-\Big(\Big(\left(l^2-r^2-4\,r\,R\right)^2\left(l^6+3\,l^4\,r^2+3\,l^2\,r^4+r^6+8\,l^4\,r\,R-8\,l^2\,r^3\,R+16\,r^5\,R-4\,l^4\,R^2-\right.$$
$$\left.80\,l^2\,r^2\,R^2+100\,r^4\,R^2-112\,l^2\,r\,R^3+304\,r^3\,R^3-16\,l^2\,R^4+448\,r^2\,R^4+256\,r\,R^5\right)\Big)\Big/$$
$$\Big(\left(l^2+r^2+4\,r\,R\right)^2\left(l^2-r^2-6\,r\,R-8\,R^2\right)^2\Big)\Big)\Big\}$$

$$\{X19,\ \text{CLAWSON POINT},\ X76,\ \text{3rd BROCARD POINT},$$
$$-\Big(\big(l^{14}+3\,l^{12}\,r^2+l^{10}\,r^4-5\,l^8\,r^6-5\,l^6\,r^8+l^4\,r^{10}+3\,l^2\,r^{12}+r^{14}-24\,l^{12}\,r\,R-24\,l^{10}\,r^3\,R+16\,l^8\,r^5\,R-$$
$$16\,l^6\,r^7\,R-24\,l^4\,r^9\,R+40\,l^2\,r^{11}\,R+32\,r^{13}\,R-4\,l^{12}\,R^2+208\,l^{10}\,r^2\,R^2-308\,l^8\,r^4\,R^2+$$
$$480\,l^6\,r^6\,R^2-396\,l^4\,r^8\,R^2+80\,l^2\,r^{10}\,R^2+452\,r^{12}\,R^2+80\,l^{10}\,r\,R^3-976\,l^8\,r^3\,R^3+2848\,l^6\,r^5\,R^3-$$
$$2208\,l^4\,r^7\,R^3-1392\,l^2\,r^9\,R^3+3696\,r^{11}\,R^3-16\,l^{10}\,R^4-832\,l^8\,r^2\,R^4+5920\,l^6\,r^4\,R^4-$$
$$6912\,l^4\,r^6\,R^4-10\,768\,l^2\,r^8\,R^4+19\,264\,r^{10}\,R^4+256\,l^8\,r\,R^5+4864\,l^6\,r^3\,R^5-14\,336\,l^4\,r^5\,R^5-$$
$$33\,536\,l^2\,r^7\,R^5+66\,304\,r^9\,R^5+512\,l^6\,r^2\,R^6-17\,408\,l^4\,r^4\,R^6-50\,688\,l^2\,r^6\,R^6+150\,528\,r^8\,R^6-$$
$$8192\,l^4\,r^3\,R^7-32\,768\,l^2\,r^5\,R^7+217\,088\,r^7\,R^7-4096\,l^2\,r^4\,R^8+180\,224\,r^6\,R^8+65\,536\,r^5\,R^9\big)\Big/$$
$$\Big(\big(l^2-r^2-6\,r\,R-8\,R^2\big)^2\,\big(l^4+2\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R+16\,r^2\,R^2\big)^2\Big)\Big)\}$$

$$\{X19,\ \text{CLAWSON POINT},\ X77,\ \text{ISOGONAL CONJUGATE OF } X(33),$$
$$-\frac{1}{\big(l^2-r^2-6\,r\,R-8\,R^2\big)^2\,\big(l^2-r\,R-4\,R^2\big)^2}R\,\big(10\,l^8\,r-14\,l^6\,r^3+6\,l^4\,r^5-2\,l^2\,r^7+4\,l^8\,R-103\,l^6\,r^2\,R+$$
$$95\,l^4\,r^4\,R-37\,l^2\,r^6\,R+r^8\,R-200\,l^6\,r\,R^2+552\,l^4\,r^3\,R^2-312\,l^2\,r^5\,R^2+24\,r^7\,R^2-48\,l^6\,R^3+$$
$$1404\,l^4\,r^2\,R^3-1504\,l^2\,r^4\,R^3+244\,r^6\,R^3+1376\,l^4\,r\,R^4-4208\,l^2\,r^3\,R^4+1360\,r^5\,R^4+192\,l^4\,R^5-$$
$$6288\,l^2\,r^2\,R^5+4480\,r^4\,R^5-3968\,l^2\,r\,R^6+8704\,r^3\,R^6-256\,l^2\,R^7+9216\,r^2\,R^7+4096\,r\,R^8\big)\}$$

$$\{X19,\ \text{CLAWSON POINT},\ X78,\ \text{ISOGONAL CONJUGATE OF } X(34),$$
$$-\Big(\big(R\,\big(-2\,l^6\,r+14\,l^4\,r^3-14\,l^2\,r^5+2\,r^7+l^6\,R+23\,l^4\,r^2\,R-93\,l^2\,r^4\,R+29\,r^6\,R+$$
$$8\,l^4\,r\,R^2-208\,l^2\,r^3\,R^2+168\,r^5\,R^2-4\,l^4\,R^3-176\,l^2\,r^2\,R^3+500\,r^4\,R^3-48\,l^2\,r\,R^4+$$
$$816\,r^3\,R^4-16\,l^2\,R^5+704\,r^2\,R^5+256\,r\,R^6\big)\big)\Big/\Big((r-R)^2\,\big(-l^2+r^2+6\,r\,R+8\,R^2\big)^2\Big)\Big)\}$$

$$\{X19,\ \text{CLAWSON POINT},\ X79,\ \text{ISOGONAL CONJUGATE OF } X(35),$$
$$-\Big(\big(4\,\big(4\,l^6\,r^2-8\,l^4\,r^4+4\,l^2\,r^6+3\,l^6\,r\,R-41\,l^4\,r^3\,R+37\,l^2\,r^5\,R+r^7\,R-52\,l^4\,r^2\,R^2+114\,l^2\,r^4\,R^2+$$
$$18\,r^6\,R^2+3\,l^4\,r\,R^3+92\,l^2\,r^3\,R^3+133\,r^5\,R^3+9\,l^4\,R^4-151\,l^2\,r^2\,R^4+516\,r^4\,R^4-240\,l^2\,r\,R^5+$$
$$1108\,r^3\,R^5-36\,l^2\,R^6+1248\,r^2\,R^6+576\,r\,R^7\big)\big)\Big/\Big((2\,r+3\,R)^2\,\big(-l^2+r^2+6\,r\,R+8\,R^2\big)^2\Big)\Big)\}$$

$$\{X19,\ \text{CLAWSON POINT},\ X80,\ \text{REFLECTION OF INCENTER IN FEUERBACH POINT},$$
$$\big(4\,\big(-l^6\,r+3\,l^4\,r^3-3\,l^2\,r^5+r^7+12\,l^4\,r^2\,R-26\,l^2\,r^4\,R+14\,r^6\,R+$$
$$13\,l^4\,r\,R^2-82\,l^2\,r^3\,R^2+77\,r^5\,R^2+l^4\,R^3-111\,l^2\,r^2\,R^3+212\,r^4\,R^3-56\,l^2\,r\,R^4+$$
$$308\,r^3\,R^4-4\,l^2\,R^5+224\,r^2\,R^5+64\,r\,R^6\big)\big)\Big/\Big((2\,r-R)\,\big(-l^2+r^2+6\,r\,R+8\,R^2\big)^2\Big)\}$$

$$\{X19,\ \text{CLAWSON POINT},\ X81,$$
$$\text{CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},\ -\frac{1}{\big(l^2-r^2-r\,R\big)^2\,\big(l^2-r^2-6\,r\,R-8\,R^2\big)^2}$$
$$R\,\big(10\,l^8\,r-18\,l^6\,r^3+6\,l^4\,r^5+2\,l^2\,r^7+4\,l^8\,R-75\,l^6\,r^2\,R+35\,l^4\,r^4\,R+35\,l^2\,r^6\,R+r^8\,R-$$
$$112\,l^6\,r\,R^2+96\,l^4\,r^3\,R^2+192\,l^2\,r^5\,R^2+16\,r^7\,R^2-16\,l^6\,R^3+204\,l^4\,r^2\,R^3+528\,l^2\,r^4\,R^3+$$
$$100\,r^6\,R^3+224\,l^4\,r\,R^4+784\,l^2\,r^3\,R^4+304\,r^5\,R^4+496\,l^2\,r^2\,R^5+448\,r^4\,R^5+256\,r^3\,R^6\big)\}$$

$$\{X19,\ \text{CLAWSON POINT},\ X82,\ \text{ISOGONAL CONJUGATE OF } X(38),$$
$$-\Big(\big(R\,\big(l^2-r^2-4\,r\,R\big)^2\,\big(10\,l^8\,r-40\,l^6\,r^3+52\,l^4\,r^5-24\,l^2\,r^7+2\,r^9+4\,l^8\,R-$$
$$171\,l^6\,r^2\,R+439\,l^4\,r^4\,R-305\,l^2\,r^6\,R+41\,r^8\,R-144\,l^6\,r\,R^2+1232\,l^4\,r^3\,R^2-$$
$$1544\,l^2\,r^5\,R^2+344\,r^7\,R^2-16\,l^6\,R^3+1260\,l^4\,r^2\,R^3-3760\,l^2\,r^4\,R^3+1508\,r^6\,R^3+$$
$$352\,l^4\,r\,R^4-4240\,l^2\,r^3\,R^4+3632\,r^5\,R^4-1680\,l^2\,r^2\,R^5+4544\,r^4\,R^5+2304\,r^3\,R^6\big)\big)\Big/$$
$$\Big(\big(l^2-r^2-6\,r\,R-8\,R^2\big)^2\,\big(l^4-4\,l^2\,r^2+3\,r^4-9\,l^2\,r\,R+19\,r^3\,R+28\,r^2\,R^2\big)^2\Big)\Big)\}$$

$$\{X19,\ \text{CLAWSON POINT},\ X83,\ \text{CEVAPOINT OF CENTROID AND SYMMEDIAN POINT},$$
$$-\Big(\big(9\,l^{14}+3\,l^{12}\,r^2-23\,l^{10}\,r^4-5\,l^8\,r^6+19\,l^6\,r^8+l^4\,r^{10}-5\,l^2\,r^{12}+r^{14}-88\,l^{12}\,r\,R-376\,l^{10}\,r^3\,R+$$
$$784\,l^8\,r^5\,R-464\,l^6\,r^7\,R+296\,l^4\,r^9\,R-184\,l^2\,r^{11}\,R+32\,r^{13}\,R-4\,l^{12}\,R^2-848\,l^{10}\,r^2\,R^2+$$
$$6220\,l^8\,r^4\,R^2-8032\,l^6\,r^6\,R^2+5364\,l^4\,r^8\,R^2-2640\,l^2\,r^{10}\,R^2+452\,r^{12}\,R^2-816\,l^{10}\,r\,R^3+$$
$$16\,816\,l^8\,r^3\,R^3-43\,104\,l^6\,r^5\,R^3+39\,392\,l^4\,r^7\,R^3-20\,080\,l^2\,r^9\,R^3+3696\,r^{11}\,R^3-144\,l^{10}\,R^4+$$
$$14\,400\,l^8\,r^2\,R^4-98\,912\,l^6\,r^4\,R^4+145\,792\,l^4\,r^6\,R^4-90\,128\,l^2\,r^8\,R^4+19\,264\,r^{10}\,R^4+$$
$$3840\,l^8\,r\,R^5-92\,416\,l^6\,r^3\,R^5+282\,112\,l^4\,r^5\,R^5-246\,528\,l^2\,r^7\,R^5+66\,304\,r^9\,R^5-$$
$$30\,208\,l^6\,r^2\,R^6+267\,264\,l^4\,r^4\,R^6-402\,944\,l^2\,r^6\,R^6+150\,528\,r^8\,R^6+98\,304\,l^4\,r^3\,R^7-$$
$$360\,448\,l^2\,r^5\,R^7+217\,088\,r^7\,R^7-135\,168\,l^2\,r^4\,R^8+180\,224\,r^6\,R^8+65\,536\,r^5\,R^9\big)\Big/$$
$$\big((l^2-r^2-6\,r\,R-8\,R^2)^2\,(5\,l^4-6\,l^2\,r^2+5\,r^4-40\,l^2\,r\,R+40\,r^3\,R+80\,r^2\,R^2)^2\big)\Big)\}$$

$$\{X19,\ \text{CLAWSON POINT},\ X84,\ \text{ISOGONAL CONJUGATE OF } X(40),$$
$$-\Big(\big(4\,R^2\,(l^6-l^4\,r^2+2\,l^2\,r^4-8\,l^4\,r\,R+8\,l^2\,r^3\,R-20\,l^4\,R^2+32\,l^2\,r^2\,R^2-4\,r^4\,R^2+112\,l^2\,r\,R^3-$$
$$48\,r^3\,R^3+128\,l^2\,R^4-208\,r^2\,R^4-384\,r\,R^5-256\,R^6)\big)\Big/\big(r^2\,(-l^2+r^2+6\,r\,R+8\,R^2)^2\big)\Big)\}$$

$$\{X19,\ \text{CLAWSON POINT},\ X85,\ \text{ISOTOMIC CONJUGATE OF } X(9),$$
$$-\frac{1}{(l^2-r^2-6\,r\,R-8\,R^2)^2\,(l^2+r^2+8\,r\,R+16\,R^2)^2}$$
$$\big(l^{10}+l^8\,r^2-2\,l^6\,r^4-2\,l^4\,r^6+l^2\,r^8+r^{10}+24\,l^8\,r\,R-56\,l^6\,r^3\,R+8\,l^4\,r^5\,R-8\,l^2\,r^7\,R+$$
$$32\,r^9\,R+28\,l^8\,R^2-328\,l^6\,r^2\,R^2+384\,l^4\,r^4\,R^2-408\,l^2\,r^6\,R^2+452\,r^8\,R^2-624\,l^6\,r\,R^3+$$
$$2576\,l^4\,r^3\,R^3-4112\,l^2\,r^5\,R^3+3696\,r^7\,R^3-272\,l^6\,R^4+6880\,l^4\,r^2\,R^4-19\,728\,l^2\,r^4\,R^4+$$
$$19\,264\,r^6\,R^4+7168\,l^4\,r\,R^5-50\,944\,l^2\,r^3\,R^5+66\,304\,r^5\,R^5+1536\,l^4\,R^6-69\,120\,l^2\,r^2\,R^6+$$
$$150\,528\,r^4\,R^6-40\,960\,l^2\,r\,R^7+217\,088\,r^3\,R^7-4096\,l^2\,R^8+180\,224\,r^2\,R^8+65\,536\,r\,R^9\big)\}$$

$$\{X19,\ \text{CLAWSON POINT},\ X86,\ \text{CEVAPOINT OF INCENTER AND CENTROID},$$
$$-\frac{1}{(5\,l^2+r^2+4\,r\,R)^2\,(l^2-r^2-6\,r\,R-8\,R^2)^2}$$
$$\big(9\,l^{10}+l^8\,r^2-18\,l^6\,r^4-2\,l^4\,r^6+9\,l^2\,r^8+r^{10}+96\,l^8\,r\,R-200\,l^6\,r^3\,R-56\,l^4\,r^5\,R+136\,l^2\,r^7\,R+$$
$$24\,r^9\,R-4\,l^8\,R^2-792\,l^6\,r^2\,R^2-336\,l^4\,r^4\,R^2+888\,l^2\,r^6\,R^2+244\,r^8\,R^2-1168\,l^6\,r\,R^3-$$
$$464\,l^4\,r^3\,R^3+3344\,l^2\,r^5\,R^3+1360\,r^7\,R^3-144\,l^6\,R^4+928\,l^4\,r^2\,R^4+7792\,l^2\,r^4\,R^4+4480\,r^6\,R^4+$$
$$1920\,l^4\,r\,R^5+10\,368\,l^2\,r^3\,R^5+8704\,r^5\,R^5+5888\,l^2\,r^2\,R^6+9216\,r^4\,R^6+4096\,r^3\,R^7\big)\}$$

$$\{X19,\ \text{CLAWSON POINT},\ X87,\ X(2)\text{-CROSS CONJUGATE OF } X(1),$$
$$-\Big(\big(4\,R\,(l^{12}\,r+4\,l^{10}\,r^3+5\,l^8\,r^5-5\,l^4\,r^9-4\,l^2\,r^{11}-r^{13}+l^{12}\,R-47\,l^{10}\,r^2\,R-62\,l^8\,r^4\,R+18\,l^6\,r^6\,R+$$
$$5\,l^4\,r^8\,R-51\,l^2\,r^{10}\,R-24\,r^{12}\,R-48\,l^{10}\,r\,R^2+716\,l^8\,r^3\,R^2-560\,l^6\,r^5\,R^2+648\,l^4\,r^7\,R^2-$$
$$320\,l^2\,r^9\,R^2-244\,r^{11}\,R^2-4\,l^{10}\,R^3+848\,l^8\,r^2\,R^3-3976\,l^6\,r^4\,R^3+4256\,l^4\,r^6\,R^3-1492\,l^2\,r^8\,R^3-$$
$$1360\,r^{10}\,R^3+160\,l^8\,r\,R^4-6368\,l^6\,r^3\,R^4+11\,488\,l^4\,r^5\,R^4-4896\,l^2\,r^7\,R^4-4480\,r^9\,R^4-2112\,l^6\,r^2\,R^5+$$
$$15\,232\,l^4\,r^4\,R^5-8768\,l^2\,r^6\,R^5-8704\,r^8\,R^5+9216\,l^4\,r^3\,R^6-6144\,l^2\,r^5\,R^6-9216\,r^7\,R^6-4096\,r^6\,R^7)\big)\Big/$$
$$\big((l^2-r^2-6\,r\,R-8\,R^2)^2\,(l^4+2\,l^2\,r^2+r^4-20\,l^2\,r\,R+12\,r^3\,R+32\,r^2\,R^2)^2\big)\Big)\}$$

$$\{X19,\ \text{CLAWSON POINT},\ X88,\ \text{ISOGONAL CONJUGATE OF } X(44),\ -\frac{1}{(l^2+3\,r^2-15\,r\,R)^2\,(l^2-r^2-6\,r\,R-8\,R^2)^2}$$
$$R\,(6\,l^8\,r+2\,l^6\,r^3+10\,l^4\,r^5-18\,l^2\,r^7+4\,l^8\,R-203\,l^6\,r^2\,R+99\,l^4\,r^4\,R-45\,l^2\,r^6\,R+81\,r^8\,R-176\,l^6\,r\,R^2+$$
$$2416\,l^4\,r^3\,R^2-2448\,l^2\,r^5\,R^2+1296\,r^7\,R^2-16\,l^6\,R^3+2700\,l^4\,r^2\,R^3-11\,952\,l^2\,r^4\,R^3+8100\,r^6\,R^3+$$
$$544\,l^4\,r\,R^4-17\,136\,l^2\,r^3\,R^4+24\,624\,r^5\,R^4-5904\,l^2\,r^2\,R^5+36\,288\,r^4\,R^5+20\,736\,r^3\,R^6)\}$$

$$\{X19,\ \text{CLAWSON POINT},\ X89,\ \text{ISOGONAL CONJUGATE OF } X(45),\ -\frac{1}{(2\,l^2-6\,r^2+3\,r\,R)^2\,(l^2-r^2-6\,r\,R-8\,R^2)^2}$$
$$R\,(36\,l^8\,r-100\,l^6\,r^3+28\,l^4\,r^5+36\,l^2\,r^7+16\,l^8\,R-59\,l^6\,r^2\,R-345\,l^4\,r^4\,R+819\,l^2\,r^6\,R+81\,r^8\,R-$$
$$320\,l^6\,r\,R^2-1304\,l^4\,r^3\,R^2+2952\,l^2\,r^5\,R^2+1296\,r^7\,R^2-64\,l^6\,R^3-2004\,l^4\,r^2\,R^3+4464\,l^2\,r^4\,R^3+$$
$$8100\,r^6\,R^3+448\,l^4\,r\,R^4+7056\,l^2\,r^3\,R^4+24\,624\,r^5\,R^4+7920\,l^2\,r^2\,R^5+36\,288\,r^4\,R^5+20\,736\,r^3\,R^6)\}$$

{X19, CLAWSON POINT, X90, X(3)-CROSS CONJUGATE OF X(1),

$$-\left(\left(4R^2\left(2l^6r^2-l^4r^4+l^2r^6-l^6rR-12l^4r^3R+9l^2r^5R-16l^4r^2R^2+36l^2r^4R^2+11l^4rR^3+60l^2r^3R^3+r^5R^3+l^4R^4+9l^2r^2R^4+12r^4R^4-48l^2rR^5+52r^3R^5-4l^2R^6+96r^2R^6+64rR^7\right)\right)\Big/\left(\left(l^2-r^2-6rR-8R^2\right)^2\left(r^2+2rR-R^2\right)^2\right)\right)\}$$

{X19, CLAWSON POINT, X91, ISOGONAL CONJUGATE OF X(47),

$$-\left(\left(\left(l^2-r^2-4rR-2R^2\right)^2\left(l^6r^2+3l^4r^4+3l^2r^6+r^8-2l^6rR+6l^4r^3R-6l^2r^5R+18r^7R+12l^4r^2R^2-96l^2r^4R^2+132r^6R^2+28l^4rR^3-248l^2r^3R^3+508r^5R^3+4l^4R^4-284l^2r^2R^4+1104r^4R^4-160l^2rR^5+1360r^3R^5-16l^2R^6+896r^2R^6+256rR^7\right)\right)\Big/\left(\left(l^2-r^2-6rR-8R^2\right)^2\left(l^2r+r^3-l^2R+3r^2R+2rR^2+2R^3\right)^2\right)\right)\}$$

{X19, CLAWSON POINT, X92, CEVAPOINT OF INCENTER AND CLAWSON POINT,

$$-\left(\left((l-r-2R)^2(l+r+2R)^2\left(l^6+3l^4r^2+3l^2r^4+r^6+8l^4rR-8l^2r^3R+16r^5R-4l^4R^2-80l^2r^2R^2+100r^4R^2-112l^2rR^3+304r^3R^3-16l^2R^4+448r^2R^4+256rR^5\right)\right)\Big/\left(\left(l^2-r^2-6rR-8R^2\right)^2\left(l^2+r^2-4R^2\right)^2\right)\right)\}$$

{X19, CLAWSON POINT, X93, ISOGONAL CONJUGATE OF X(49),

$$-\left(\left((l-r-2R)^2(l+r+2R)^2\left(l^{10}+5l^8r^2+10l^6r^4+10l^4r^6+5l^2r^8+r^{10}-16l^8rR-24l^6r^3R+24l^4r^5R+56l^2r^7R+24r^9R-14l^8R^2+108l^6r^2R^2-136l^4r^4R^2+244l^2r^6R^2+246r^8R^2+176l^6rR^3-616l^4r^3R^3+608l^2r^5R^3+1400r^7R^3+68l^6R^4-1264l^4r^2R^4+1300l^2r^4R^4+4808r^6R^4-648l^4rR^5+2488l^2r^3R^5+10112r^5R^5-146l^4R^6+2688l^2r^2R^6+12546r^4R^6+784l^2rR^7+8216r^3R^7+59l^2R^8+2143r^2R^8+120rR^9-16R^{10}\right)\right)\Big/\left(\left(l^2-r^2-6rR-8R^2\right)^2\left(l^4+2l^2r^2+r^4-8l^2rR+8r^3R-8l^2R^2+24r^2R^2+32rR^3+13R^4\right)^2\right)\right)\}$$

{X19, CLAWSON POINT, X94, ISOGONAL CONJUGATE OF X(50),

$$-\left(\left(l^{14}+3l^{12}r^2+l^{10}r^4-5l^8r^6-5l^6r^8+l^4r^{10}+3l^2r^{12}+r^{14}-24l^{12}rR-24l^{10}r^3R+16l^8r^5R-16l^6r^7R-24l^4r^9R+40l^2r^{11}R+32r^{13}R-28l^{12}R^2+244l^{10}r^2R^2-248l^8r^4R^2+408l^6r^6R^2-444l^4r^8R^2+116l^2r^{10}R^2+464r^{12}R^2+560l^{10}rR^3-2032l^8r^3R^3+3568l^6r^5R^3-3024l^4r^7R^3-1056l^2r^9R^3+4032r^{11}R^3+290l^{10}R^4-5002l^8r^2R^4+13132l^6r^4R^4-11868l^4r^6R^4-10990l^2r^8R^4+23398r^{10}R^4-4544l^8rR^5+26080l^6r^3R^5-30416l^4r^5R^5-47840l^2r^7R^5+95632r^9R^5-1368l^8R^6+28316l^6r^2R^6-52460l^4r^4R^6-124092l^2r^6R^6+282852r^8R^6+14880l^6rR^7-59264l^4r^3R^7-208112l^2r^5R^7+612176r^7R^7+2853l^6R^8-40377l^4r^2R^8-229549l^2r^4R^8+968321r^6R^8-13896l^4rR^9-163272l^2r^3R^9+1104400r^5R^9-1620l^4R^{10}-70416l^2r^2R^{10}+882084r^4R^{10}-15984l^2rR^{11}+466992r^3R^{11}-1296l^2R^{12}+146880r^2R^{12}+20736rR^{13}\right)\Big/\left(\left(l^2-r^2-6rR-8R^2\right)^2\left(l^4+2l^2r^2+r^4-8l^2rR+8r^3R-12l^2R^2+28r^2R^2+48rR^3+27R^4\right)^2\right)\right)\}$$

{X19, CLAWSON POINT, X95, CEVAPOINT OF CENTROID AND CIRCUMCENTER,

$$-\left(\left(l^{14}+19l^{12}r^2+17l^{10}r^4-37l^8r^6-37l^6r^8+17l^4r^{10}+19l^2r^{12}+r^{14}-24l^{12}rR-216l^{10}r^3R+1232l^8r^5R-1232l^6r^7R-216l^4r^9R+424l^2r^{11}R+32r^{13}R-12l^{12}R^2+176l^{10}r^2R^2+548l^8r^4R^2-2976l^6r^6R^2-4836l^4r^8R^2+4080l^2r^{10}R^2+460r^{12}R^2+240l^{10}rR^3-1392l^8r^3R^3+5344l^6r^5R^3-30176l^4r^7R^3+22064l^2r^9R^3+3920r^{11}R^3+32l^{10}R^4-3152l^8r^2R^4+21248l^6r^4R^4-91296l^4r^6R^4+73184l^2r^8R^4+22000r^{10}R^4-512l^8rR^5+22144l^6r^3R^5-147840l^4r^5R^5+152448l^2r^7R^5+85376r^9R^5+64l^8R^6+12288l^6r^2R^6-129920l^4r^4R^6+197120l^2r^6R^6+233792r^8R^6-768l^6rR^7-66816l^4r^3R^7+156416l^2r^5R^7+451840r^7R^7-256l^6R^8-23040l^4r^2R^8+89856l^2r^4R^8+604160r^6R^8+2048l^4rR^9+59392l^2r^3R^9+532480r^5R^9+28672l^2r^2R^{10}+278528r^4R^{10}+65536r^3R^{11}\right)\Big/\left(\left(l^2-r^2-6rR-8R^2\right)^2\left(l^4+18l^2r^2+r^4-8l^2rR+8r^3R-4l^2R^2+20r^2R^2+16rR^3\right)^2\right)\right)\}$$

$$\{X19, \text{CLAWSON POINT}, X96, \text{ISOGONAL CONJUGATE OF } X(52),$$
$$\big(l^{14} - 13 l^{12} r^2 - 15 l^{10} r^4 + 27 l^8 r^6 + 27 l^6 r^8 - 15 l^4 r^{10} - 13 l^2 r^{12} + r^{14} - 32 l^{12} r R + 400 l^{10} r^3 R -$$
$$960 l^8 r^5 R + 960 l^6 r^7 R - 64 l^4 r^9 R - 336 l^2 r^{11} R + 32 r^{13} R - 8 l^{12} R^2 + 520 l^{10} r^2 R^2 - 3328 l^8 r^4 R^2 +$$
$$4880 l^6 r^6 R^2 + 1336 l^4 r^8 R^2 - 3864 l^2 r^{10} R^2 + 464 r^{12} R^2 + 128 l^{10} r R^3 - 3552 l^8 r^3 R^3 +$$
$$7008 l^6 r^5 R^3 + 15392 l^4 r^7 R^3 - 26080 l^2 r^9 R^3 + 4032 r^{11} R^3 - 136 l^{10} R^4 + 1288 l^8 r^2 R^4 -$$
$$9104 l^6 r^4 R^4 + 74000 l^4 r^6 R^4 - 114792 l^2 r^8 R^4 + 23400 r^{10} R^4 + 3584 l^8 r R^5 - 40448 l^6 r^3 R^5 +$$
$$202560 l^4 r^5 R^5 - 346368 l^2 r^7 R^5 + 95680 r^9 R^5 + 1600 l^8 R^6 - 51296 l^6 r^2 R^6 + 341856 l^4 r^4 R^6 -$$
$$733216 l^2 r^6 R^6 + 283360 r^8 R^6 - 28800 l^6 r R^7 + 360192 l^4 r^3 R^7 - 1095168 l^2 r^5 R^7 +$$
$$615296 r^7 R^7 - 6320 l^6 R^8 + 229488 l^4 r^2 R^8 - 1143120 l^2 r^4 R^8 + 980624 r^6 R^8 + 80384 l^4 r R^9 -$$
$$810752 l^2 r^3 R^9 + 1136896 r^5 R^9 + 11904 l^4 R^{10} - 369408 l^2 r^2 R^{10} + 940160 r^4 R^{10} -$$
$$96768 l^2 r R^{11} + 536064 r^3 R^{11} - 11008 l^2 R^{12} + 198912 r^2 R^{12} + 43008 r R^{13} + 4096 R^{14}\big) /$$
$$\big((l^2 - r^2 - 6 r R - 8 R^2)^2 (l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2 - 4 R^4)^2\big)\}$$

$$\{X19, \text{CLAWSON POINT}, X97, \text{ISOGONAL CONJUGATE OF } X(53),$$
$$-\big(\big(R\,(8 l^{12} r - 80 l^{10} r^3 + 224 l^8 r^5 - 176 l^6 r^7 + 24 l^4 r^9 + 2 l^{12} R - 182 l^{10} r^2 R + 1132 l^8 r^4 R - 1604 l^6 r^6 R +$$
$$402 l^4 r^8 R - 6 l^2 r^{10} R - 200 l^{10} r R^2 + 2568 l^8 r^3 R^2 - 6520 l^6 r^5 R^2 + 3000 l^4 r^7 R^2 -$$
$$128 l^2 r^9 R^2 - 27 l^{10} R^3 + 2917 l^8 r^2 R^3 - 15118 l^6 r^4 R^3 + 12826 l^4 r^6 R^3 - 1175 l^2 r^8 R^3 +$$
$$r^{10} R^3 + 1712 l^8 r R^4 - 20776 l^6 r^3 R^4 + 34136 l^4 r^5 R^4 - 6136 l^2 r^7 R^4 + 24 r^9 R^4 +$$
$$132 l^8 R^5 - 16520 l^6 r^2 R^5 + 57920 l^4 r^4 R^5 - 20280 l^2 r^6 R^5 + 252 r^8 R^5 - 6768 l^6 r R^6 +$$
$$62160 l^4 r^3 R^6 - 44624 l^2 r^5 R^6 + 1520 r^7 R^6 - 288 l^6 R^7 + 40432 l^4 r^2 R^7 - 66688 l^2 r^4 R^7 +$$
$$5808 r^6 R^7 + 13312 l^4 r R^8 - 66816 l^2 r^3 R^8 + 14592 r^5 R^8 + 320 l^4 R^9 - 41600 l^2 r^2 R^9 +$$
$$24128 r^4 R^9 - 12544 l^2 r R^{10} + 25344 r^3 R^{10} - 256 l^2 R^{11} + 15360 r^2 R^{11} + 4096 r R^{12}\big)\big) /$$
$$\big((l^2 - r^2 - 6 r R - 8 R^2)^2 (l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 7 l^2 R^2 + 23 r^2 R^2 + 28 r R^3 + 12 R^4)^2\big)\big)\}$$

$$\{X19, \text{CLAWSON POINT}, X98, \text{TarryPoint},$$
$$\big(l^{10} + l^8 r^2 - 2 l^6 r^4 - 2 l^4 r^6 + l^2 r^8 + r^{10} - 24 l^8 r R + 64 l^6 r^3 R - 64 l^4 r^5 R + 24 r^9 R - 8 l^8 R^2 +$$
$$160 l^6 r^2 R^2 - 272 l^4 r^4 R^2 - 128 l^2 r^6 R^2 + 248 r^8 R^2 + 96 l^6 r R^3 - 288 l^4 r^3 R^3 - 992 l^2 r^5 R^3 +$$
$$1440 r^7 R^3 - 48 l^6 R^4 + 368 l^4 r^2 R^4 - 3344 l^2 r^4 R^4 + 5136 r^6 R^4 + 768 l^4 r R^5 - 5888 l^2 r^3 R^5 +$$
$$11520 r^5 R^5 + 256 l^4 R^6 - 5376 l^2 r^2 R^6 + 15872 r^4 R^6 - 2048 l^2 r R^7 + 12288 r^3 R^7 + 4096 r^2 R^8\big) /$$
$$\big((l^2 - r^2 - 6 r R - 8 R^2)^2 (l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2)\big)\}$$

$$\{X19, \text{CLAWSON POINT}, X99, \text{STEINER POINT},$$
$$-\big(\big(l^{10} + l^8 r^2 - 2 l^6 r^4 - 2 l^4 r^6 + l^2 r^8 + r^{10} - 16 l^8 r R - 56 l^6 r^3 R + 56 l^4 r^5 R - 8 l^2 r^7 R +$$
$$24 r^9 R - 4 l^8 R^2 + 8 l^6 r^2 R^2 + 304 l^4 r^4 R^2 - 168 l^2 r^6 R^2 + 244 r^8 R^2 + 48 l^6 r R^3 +$$
$$304 l^4 r^3 R^3 - 688 l^2 r^5 R^3 + 1360 r^7 R^3 - 16 l^6 R^4 - 96 l^4 r^2 R^4 - 656 l^2 r^4 R^4 + 4480 r^6 R^4 +$$
$$128 l^4 r R^5 + 1152 l^2 r^3 R^5 + 8704 r^5 R^5 + 1792 l^2 r^2 R^6 + 9216 r^4 R^6 + 4096 r^3 R^7\big) /$$
$$\big((l^2 - r^2 - 6 r R - 8 R^2)^2 (l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2)\big)\big)\}$$

$$\{X19, \text{CLAWSON POINT}, X100, \text{ANTICOMPLEMENT OF FEUERBACH POINT},$$
$$\big(R\,(l^6 - 9 l^4 r^2 + 7 l^2 r^4 + r^6 - 16 l^4 r R + 32 l^2 r^3 R + 16 r^5 R - 4 l^4 R^2 + 48 l^2 r^2 R^2 + 100 r^4 R^2 +$$
$$16 l^2 r R^3 + 304 r^3 R^3 - 16 l^2 R^4 + 448 r^2 R^4 + 256 r R^5)\big) / \big((2 r - R)\,(-l^2 + r^2 + 6 r R + 8 R^2)^2\big)\}$$

$$\left\{X20, \text{DE LONGCHAMPS POINT}, X21, \text{SCHIFFLER POINT}, \frac{4\,(r + 2 R)^2\,(-2 l^2 + 2 r^2 + 8 r R + 9 R^2)}{(2 r + 3 R)^2}\right\}$$

$$\left\{X20, \text{DE LONGCHAMPS POINT}, X22, \text{ExeterPoint}, -\frac{(l - r - 2 R)^2\,(l + r + 2 R)^2\,(2 l^2 - 2 r^2 - 8 r R - 9 R^2)}{(l^2 - r^2 - 4 r R - 3 R^2)^2}\right\}$$

$$\left\{X20, \text{DE LONGCHAMPS POINT}, X23, \text{FarOutPoint}, -\frac{4\,(l^2 - r^2 - 4 r R - 6 R^2)^2}{2 l^2 - 2 r^2 - 8 r R - 9 R^2}\right\}$$

$$\{X20, \text{DE LONGCHAMPS POINT}, X24, \text{PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE},$$
$$-\frac{(2 l^2 - 2 r^2 - 8 r R - 9 R^2)\,(l^2 - r^2 - 4 r R - 6 R^2)^2}{(l^2 - r^2 - 4 r R - 5 R^2)^2}\}$$

$$\left\{\text{X20, DE LONGCHAMPS POINT, X25, HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES,}\ -\frac{\left(2 l^2-2 r^2-8 r R-9 R^2\right)\left(l^2-r^2-4 r R-8 R^2\right)^2}{\left(l^2-r^2-4 r R-6 R^2\right)^2}\right\}$$

$$\left\{\text{X20, DE LONGCHAMPS POINT, X26, CIRCUMCENTER OF THE TANGENTIAL TRIANGLE,}\ -\frac{\left(2 l^2-2 r^2-8 r R-9 R^2\right)\left(l^2-r^2-4 r R-5 R^2\right)^2}{(1-r-2 R)^2 (1+r+2 R)^2}\right\}$$

$$\left\{\text{X20, DE LONGCHAMPS POINT, X27, CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER,}\ -\frac{16 (r+2 R)^4\left(2 l^2-2 r^2-8 r R-9 R^2\right)}{\left(l^2-3 r^2-12 r R-12 R^2\right)^2}\right\}$$

$$\left\{\text{X20, DE LONGCHAMPS POINT, X28, CEVAPOINT OF X(19) AND X(25),}\ -\frac{\left(2 l^2-2 r^2-8 r R-9 R^2\right)\left(l^2-r^2-6 r R-8 R^2\right)^2}{\left(l^2-r^2-5 r R-6 R^2\right)^2}\right\}$$

$$\left\{\text{X20, DE LONGCHAMPS POINT, X29, CEVAPOINT OF INCENTER AND ORTHOCENTER,}\ -\frac{16\left(2 l^2-2 r^2-8 r R-9 R^2\right)\left(l^2-2 r R-4 R^2\right)^2}{\left(3 l^2-r^2-8 r R-12 R^2\right)^2}\right\}$$

$$\left\{\text{X20, DE LONGCHAMPS POINT, X30, EulerInfinityPoint,}\ \infty\right\}$$

$$\left\{\text{X20, DE LONGCHAMPS POINT, X31, SecondPowerPoint,}\ -\frac{1}{\left(l^2-3 r^2-6 r R\right)^2}\left(3 l^6-15 l^4 r^2+25 l^2 r^4-21 r^6-48 l^4 r R+168 l^2 r^3 R-168 r^5 R-16 l^4 R^2+336 l^2 r^2 R^2-560 r^4 R^2+192 l^2 r R^3-896 r^3 R^3-576 r^2 R^4\right)\right\}$$

$$\left\{\text{X20, DE LONGCHAMPS POINT, X32, ThirdPowerPoint,}\ -\frac{1}{\left(l^2-2 l r-r^2-4 r R\right)^2\left(l^2+2 l r-r^2-4 r R\right)^2}\left(3 l^{10}-31 l^8 r^2+94 l^6 r^4-94 l^4 r^6+31 l^2 r^8-3 r^{10}-60 l^8 r R+432 l^6 r^3 R-808 l^4 r^5 R+432 l^2 r^7 R-60 r^9 R-16 l^8 R^2+652 l^6 r^2 R^2-2664 l^4 r^4 R^2+2380 l^2 r^6 R^2-496 r^8 R^2+256 l^6 r R^3-3552 l^4 r^3 R^3+6496 l^2 r^5 R^3-2176 r^7 R^3-1536 l^4 r^2 R^4+8640 l^2 r^4 R^4-5376 r^6 R^4+4096 l^2 r^3 R^5-7168 r^5 R^5-4096 r^4 R^6\right)\right\}$$

$$\left\{\text{X20, DE LONGCHAMPS POINT, X33, PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES,}\ -\frac{1}{\left(l^2-r^2-2 r R-4 R^2\right)^2}\left(3 l^6-7 l^4 r^2+5 l^2 r^4-r^6-12 l^4 r R+16 l^2 r^3 R-4 r^5 R-40 l^4 R^2+56 l^2 r^2 R^2-16 r^4 R^2+112 l^2 r R^3-48 r^3 R^3+176 l^2 R^4-128 r^2 R^4-256 r R^5-256 R^6\right)\right\}$$

$$\left\{\text{X20, DE LONGCHAMPS POINT, X34, X(4)-BETH CONJUGATE OF X(4),}\ -\frac{1}{\left(l^2-r^2-6 r R-4 R^2\right)^2}\left(3 l^6-7 l^4 r^2+5 l^2 r^4-r^6-52 l^4 r R+80 l^2 r^3 R-28 r^5 R-40 l^4 R^2+360 l^2 r^2 R^2-256 r^4 R^2+464 l^2 r R^3-912 r^3 R^3+176 l^2 R^4-1472 r^2 R^4-1024 r R^5-256 R^6\right)\right\}$$

$$\left\{\text{X20, DE LONGCHAMPS POINT, X35, \{X(1),X(3)\}-HARMONIC CONJUGATE OF X(36),}\ \frac{-8 l^2 r^2+8 r^4-10 l^2 r R+38 r^3 R-3 l^2 R^2+73 r^2 R^2+56 r R^3+16 R^4}{(2 r+R)^2}\right\}$$

$$\left\{\text{X20, DE LONGCHAMPS POINT, X36, INVERSE-IN-CIRCUMCIRCLE OF INCENTER,}\ \frac{-4 l^2 r+4 r^3+3 l^2 R+15 r^2 R+8 r R^2-16 R^3}{2 r-R}\right\}$$

$$\left\{X20,\ \text{DE LONGCHAMPS POINT},\ X37,\ \text{CrosspointOfIncenterAndCentroid},\ -\frac{1}{\left(l^2+r^2+4\,r\,R\right)^2}\left(3\,l^6+3\,l^4\,r^2-3\,l^2\,r^4-3\,r^6+20\,l^4\,r\,R-24\,l^2\,r^3\,R-36\,r^5\,R-16\,l^4\,R^2-68\,l^2\,r^2\,R^2-160\,r^4\,R^2-128\,l^2\,r\,R^3-320\,r^3\,R^3-256\,r^2\,R^4\right)\right\}$$

$$\left\{X20,\ \text{DE LONGCHAMPS POINT},\ X38,\ \text{CROSSPOINT OF X(1) AND X(75)},\ -\frac{1}{\left(l^2+r^2-2\,r\,R\right)^2}\left(3\,l^6+l^4\,r^2-7\,l^2\,r^4-5\,r^6-16\,l^4\,r\,R-40\,l^2\,r^3\,R+8\,r^5\,R-16\,l^4\,R^2-16\,l^2\,r^2\,R^2+112\,r^4\,R^2+64\,l^2\,r\,R^3+128\,r^3\,R^3-64\,r^2\,R^4\right)\right\}$$

$$\left\{X20,\ \text{DE LONGCHAMPS POINT},\ X39,\ \text{BrocardMidpoint},\ -\frac{1}{\left(l^4+2\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R+16\,r^2\,R^2\right)^2}\left(3\,l^{10}+9\,l^8\,r^2+6\,l^6\,r^4-6\,l^4\,r^6-9\,l^2\,r^8-3\,r^{10}-60\,l^8\,r\,R-48\,l^6\,r^3\,R+24\,l^4\,r^5\,R-48\,l^2\,r^7\,R-60\,r^9\,R-16\,l^8\,R^2+460\,l^6\,r^2\,R^2-360\,l^4\,r^4\,R^2+268\,l^2\,r^6\,R^2-496\,r^8\,R^2+256\,l^6\,r\,R^3-2016\,l^4\,r^3\,R^3+2400\,l^2\,r^5\,R^3-2176\,r^7\,R^3-1536\,l^4\,r^2\,R^4+5568\,l^2\,r^4\,R^4-5376\,r^6\,R^4+4096\,l^2\,r^3\,R^5-7168\,r^5\,R^5-4096\,r^4\,R^6\right)\right\}$$

$$\left\{X20,\ \text{DE LONGCHAMPS POINT},\ X40,\ \text{BEVAN POINT},\ -l^2+3\,r^2+4\,r\,R+4\,R^2\right\}$$

$$\left\{X20,\ \text{DE LONGCHAMPS POINT},\ X41,\ X(6)\text{-CEVA CONJUGATE OF X(31)},\ -\left(\left(21\,l^6\,r^2-25\,l^4\,r^4+15\,l^2\,r^6-3\,r^8+32\,l^6\,r\,R-212\,l^4\,r^3\,R+208\,l^2\,r^5\,R-60\,r^7\,R+12\,l^6\,R^2-584\,l^4\,r^2\,R^2+1132\,l^2\,r^4\,R^2-496\,r^6\,R^2-416\,l^4\,r\,R^3+2976\,l^2\,r^3\,R^3-2176\,r^5\,R^3-64\,l^4\,R^4+3520\,l^2\,r^2\,R^4-5376\,r^4\,R^4+1024\,l^2\,r\,R^5-7168\,r^3\,R^5-4096\,r^2\,R^6\right)\Big/\left(3\,l^2\,r-r^3+2\,l^2\,R-8\,r^2\,R-16\,r\,R^2\right)^2\right)\right\}$$

$$\left\{X20,\ \text{DE LONGCHAMPS POINT},\ X42,\ \text{CROSSPOINT OF INCENTER AND SYMMEDIAN POINT},\ -\frac{1}{\left(l^2+r^2-2\,r\,R\right)^2}\left(3\,l^6+5\,l^4\,r^2+l^2\,r^4-r^6-24\,l^4\,r\,R-16\,l^2\,r^3\,R+8\,r^5\,R-16\,l^4\,R^2+64\,l^2\,r^2\,R^2+16\,r^4\,R^2+64\,l^2\,r\,R^3-64\,r^2\,R^4\right)\right\}$$

$$\left\{X20,\ \text{DE LONGCHAMPS POINT},\ X43,\ X(6)\text{-CEVA CONJUGATE OF X(1)},\ -\frac{1}{\left(l^2+r^2-8\,r\,R\right)^2}\left(3\,l^6+5\,l^4\,r^2+l^2\,r^4-r^6-64\,l^4\,r\,R-32\,l^2\,r^3\,R+32\,r^5\,R-16\,l^4\,R^2+432\,l^2\,r^2\,R^2-128\,r^4\,R^2+256\,l^2\,r\,R^3-768\,r^3\,R^3-1024\,r^2\,R^4\right)\right\}$$

$$\left\{X20,\ \text{DE LONGCHAMPS POINT},\ X44,\ X(6)\text{-LINE CONJUGATE OF X(1)},\ -\frac{1}{\left(l^2-3\,r^2-12\,r\,R\right)^2}\left(3\,l^6-13\,l^4\,r^2+21\,l^2\,r^4-27\,r^6-92\,l^4\,r\,R+264\,l^2\,r^3\,R-324\,r^5\,R-16\,l^4\,R^2+924\,l^2\,r^2\,R^2-1440\,r^4\,R^2+384\,l^2\,r\,R^3-2880\,r^3\,R^3-2304\,r^2\,R^4\right)\right\}$$

$$\left\{X20,\ \text{DE LONGCHAMPS POINT},\ X45,\ X(9)\text{-BETH CONJUGATE OF X(1)},\ -\frac{1}{\left(l^2+3\,r^2+12\,r\,R\right)^2}\left(3\,l^6+11\,l^4\,r^2-3\,l^2\,r^4-27\,r^6+76\,l^4\,r\,R+24\,l^2\,r^3\,R-324\,r^5\,R-16\,l^4\,R^2+156\,l^2\,r^2\,R^2-1440\,r^4\,R^2-384\,l^2\,r\,R^3-2880\,r^3\,R^3-2304\,r^2\,R^4\right)\right\}$$

$$\left\{X20,\ \text{DE LONGCHAMPS POINT},\ X46,\ X(4)\text{-CEVA CONJUGATE OF X(1)},\ \frac{-l^2\,r^2+3\,r^4+4\,l^2\,r\,R-3\,l^2\,R^2-15\,r^2\,R^2-8\,r\,R^3+16\,R^4}{(r-R)^2}\right\}$$

$$\left\{X20,\ \text{DE LONGCHAMPS POINT},\ X47,\ X(110)\text{-BETH CONJUGATE OF X(34)},\ -\frac{1}{\left(l^2-3\,r^2-6\,r\,R-2\,R^2\right)^2}\left(3\,l^6-15\,l^4\,r^2+25\,l^2\,r^4-21\,r^6-48\,l^4\,r\,R+168\,l^2\,r^3\,R-168\,r^5\,R-28\,l^4\,R^2+368\,l^2\,r^2\,R^2-580\,r^4\,R^2+304\,l^2\,r\,R^3-1056\,r^3\,R^3+76\,l^2\,R^4-996\,r^2\,R^4-416\,r\,R^5-64\,R^6\right)\right\}$$

$$\left\{X20,\ \text{DE LONGCHAMPS POINT},\ X48,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(63),\ -\frac{1}{\left(3 l^2 - r^2 - 6 r R - 8 R^2\right)^2}\left(21 l^6 - 25 l^4 r^2 + 15 l^2 r^4 - 3 r^6 - 168 l^4 r R + 168 l^2 r^3 R - 48 r^5 R - 244 l^4 R^2 + 704 l^2 r^2 R^2 - 316 r^4 R^2 + 1296 l^2 r R^3 - 1104 r^3 R^3 + 880 l^2 R^4 - 2176 r^2 R^4 - 2304 r R^5 - 1024 R^6\right)\right\}$$

$$\left\{X20,\ \text{DE LONGCHAMPS POINT},\ X49,\ \text{CENTER OF SINE-TRIPLE-ANGLE CIRCLE},\ -\frac{1}{\left(2 l^2 - 2 r^2 - 8 r R - 7 R^2\right)^2}\left(10 l^6 - 22 l^4 r^2 + 22 l^2 r^4 - 10 r^6 - 120 l^4 r R + 208 l^2 r^3 R - 120 r^5 R - 130 l^4 R^2 + 716 l^2 r^2 R^2 - 610 r^4 R^2 + 1040 l^2 r R^3 - 1680 r^3 R^3 + 540 l^2 R^4 - 2620 r^2 R^4 - 2160 r R^5 - 729 R^6\right)\right\}$$

$$\left\{X20,\ \text{DE LONGCHAMPS POINT},\ X50,\ X(74)\text{-CEVA CONJUGATE OF } X(184),\ -\frac{1}{\left(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 3 l^2 R^2 + 19 r^2 R^2 + 12 r R^3\right)^2}\left(3 l^{10} - 31 l^8 r^2 + 94 l^6 r^4 - 94 l^4 r^6 + 31 l^2 r^8 - 3 r^{10} - 60 l^8 r R + 432 l^6 r^3 R - 808 l^4 r^5 R + 432 l^2 r^7 R - 60 r^9 R - 34 l^8 R^2 + 760 l^6 r^2 R^2 - 2796 l^4 r^4 R^2 + 2488 l^2 r^6 R^2 - 514 r^8 R^2 + 544 l^6 r R^3 - 4704 l^4 r^3 R^3 + 7648 l^2 r^5 R^3 - 2464 r^7 R^3 + 123 l^6 R^4 - 3957 l^4 r^2 R^4 + 13\,365 l^2 r^4 R^4 - 7227 r^6 R^4 - 1476 l^4 r R^5 + 12\,952 l^2 r^3 R^5 - 13\,252 r^5 R^5 - 144 l^4 R^6 + 6300 l^2 r^2 R^6 - 14\,752 r^4 R^6 + 1152 l^2 r R^7 - 9024 r^3 R^7 - 2304 r^2 R^8\right)\right\}$$

$$\left\{X20,\ \text{DE LONGCHAMPS POINT},\ X51,\ \text{CENTROID OF ORTHIC TRIANGLE},\ \frac{-7 l^4 - 30 l^2 r^2 - 7 r^4 + 56 l^2 r R - 56 r^3 R - 80 l^2 R^2 - 32 r^2 R^2 + 320 r R^3 + 576 R^4}{36 R^2}\right\}$$

$$\left\{X20,\ \text{DE LONGCHAMPS POINT},\ X52,\ \text{ORTHOCENTER OF ORTHIC TRIANGLE},\ \frac{-l^4 - 18 l^2 r^2 - r^4 + 8 l^2 r R - 8 r^3 R + 4 l^2 R^2 - 20 r^2 R^2 - 16 r R^3 + 36 R^4}{4 R^2}\right\}$$

$$\left\{X20,\ \text{DE LONGCHAMPS POINT},\ X53,\ \text{SYMMEDIAN POINT OF ORTHIC TRIANGLE},\ -\frac{1}{\left(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 4 l^2 R^2 + 20 r^2 R^2 + 16 r R^3\right)^2}\left(3 l^{10} - 51 l^8 r^2 + 234 l^6 r^4 - 234 l^4 r^6 + 51 l^2 r^8 - 3 r^{10} - 60 l^8 r R + 672 l^6 r^3 R - 1608 l^4 r^5 R + 672 l^2 r^7 R - 60 r^9 R - 40 l^8 R^2 + 972 l^6 r^2 R^2 - 4520 l^4 r^4 R^2 + 3660 l^2 r^6 R^2 - 520 r^8 R^2 + 640 l^6 r R^3 - 6496 l^4 r^3 R^3 + 10\,720 l^2 r^5 R^3 - 2560 r^7 R^3 + 176 l^6 R^4 - 5168 l^4 r^2 R^4 + 18\,160 l^2 r^4 R^4 - 7856 r^6 R^4 - 2112 l^4 r R^5 + 17\,664 l^2 r^3 R^5 - 15\,424 r^5 R^5 - 256 l^4 R^6 + 9152 l^2 r^2 R^6 - 18\,944 r^4 R^6 + 2048 l^2 r R^7 - 13\,312 r^3 R^7 - 4096 r^2 R^8\right)\right\}$$

$$\left\{X20,\ \text{DE LONGCHAMPS POINT},\ X54,\ \text{KosnitaPoint},\ -\frac{1}{\left(2 l^2 - 2 r^2 - 8 r R - 5 R^2\right)^2}\left(10 l^6 - 22 l^4 r^2 + 22 l^2 r^4 - 10 r^6 - 120 l^4 r R + 208 l^2 r^3 R - 120 r^5 R - 103 l^4 R^2 + 674 l^2 r^2 R^2 - 583 r^4 R^2 + 824 l^2 r R^3 - 1464 r^3 R^3 + 324 l^2 R^4 - 1972 r^2 R^4 - 1296 r R^5 - 324 R^6\right)\right\}$$

$$\left\{X20,\ \text{DE LONGCHAMPS POINT},\ X55,\ \text{INSIMILICENTER(CIRCUMCIRCLE, INCIRCLE)},\ \frac{-2 l^2 r^2 + 2 r^4 - 5 l^2 r R + 11 r^3 R - 3 l^2 R^2 + 28 r^2 R^2 + 32 r R^3 + 16 R^4}{(r + R)^2}\right\}$$

$$\left\{X20,\ \text{DE LONGCHAMPS POINT},\ X56,\ \text{EXSIMILICENTER(CIRCUMCIRCLE, INCIRCLE)},\ \frac{-2 l^2 r^2 + 2 r^4 + 5 l^2 r R + 5 r^3 R - 3 l^2 R^2 - 8 r^2 R^2 - 16 r R^3 + 16 R^4}{(r - R)^2}\right\}$$

$$\left\{X20,\ \text{DE LONGCHAMPS POINT},\ X57,\ \text{ISOGONAL CONJUGATE OF } X(9),\ \frac{-l^2 r^2 + 3 r^4 + 8 l^2 r R - 4 r^3 R - 12 l^2 R^2 - 32 r^2 R^2 + 64 R^4}{(r - 2 R)^2}\right\}$$

$$\left\{\text{X20, DE LONGCHAMPS POINT, X58, ISOGONAL CONJUGATE OF X(10)},\right.$$
$$-\frac{1}{\left(l^2-3r^2-4rR\right)^2}\left(3l^6-15l^4r^2+25l^2r^4-21r^6-36l^4rR+136l^2r^3R-\right.$$
$$\left.\left.148r^5R-16l^4R^2+236l^2r^2R^2-404r^4R^2+128l^2rR^3-512r^3R^3-256r^2R^4\right)\right\}$$

$$\left\{\text{X20, DE LONGCHAMPS POINT, X59, ISOGONAL CONJUGATE OF X(11)},\right.$$
$$\left(-5l^6r+11l^4r^3-11l^2r^5+5r^7+3l^6R+64l^4r^2R-113l^2r^4R+66r^6R+24l^4rR^2-\right.$$
$$372l^2r^3R^2+340r^5R^2-40l^4R^3-348l^2r^2R^3+860r^4R^3+80l^2rR^4+1040r^3R^4+$$
$$\left.\left.176l^2R^5+304r^2R^5-384rR^6-256R^7\right)\Big/\left((2r-R)\left(-l^2+r^2+5rR+4R^2\right)^2\right)\right\}$$

$$\left\{\text{X20, DE LONGCHAMPS POINT, X60, ISOGONAL CONJUGATE OF X(12)},\right.$$
$$-\left(\left(10l^6r^2-22l^4r^4+22l^2r^6-10r^8+11l^6rR-123l^4r^3R+201l^2r^5R-113r^7R+3l^6R^2-212l^4r^2R^2+\right.\right.$$
$$719l^2r^4R^2-554r^6R^2-112l^4rR^3+1228l^2r^3R^3-1508r^5R^3-16l^4R^4+948l^2r^2R^4-$$
$$\left.\left.2396r^4R^4+224l^2rR^5-2096r^3R^5-784r^2R^6\right)\Big/\left(2l^2r-2r^3+l^2R-7r^2R-7rR^2\right)^2\right)\right\}$$

$$\left\{\text{X20, DE LONGCHAMPS POINT, X61, ISOGONAL CONJUGATE OF X(17)},\right.$$
$$-\left(\left(3\left(9l^6+10\sqrt{3}\,l^5r-7l^4r^2-12\sqrt{3}\,l^3r^3+7l^2r^4+10\sqrt{3}\,lr^5-9r^6-108l^4rR-80\sqrt{3}\,l^3r^2R+\right.\right.\right.$$
$$136l^2r^3R+80\sqrt{3}\,lr^4R-108r^5R-48l^4R^2-48\sqrt{3}\,l^3rR^2+528l^2r^2R^2+208\sqrt{3}\,lr^3R^2-480$$
$$\left.\left.\left.r^4R^2+384l^2rR^3+192\sqrt{3}\,lr^2R^3-960r^3R^3-768r^2R^4\right)\right)\Big/\left(3l^2+2\sqrt{3}\,lr-3r^2-12rR\right)^2\right)\right\}$$

$$\left\{\text{X20, DE LONGCHAMPS POINT, X62, ISOGONAL CONJUGATE OF X(18)},\right.$$
$$-\left(\left(3\left(9l^6-10\sqrt{3}\,l^5r-7l^4r^2+12\sqrt{3}\,l^3r^3+7l^2r^4-10\sqrt{3}\,lr^5-9r^6-108l^4rR+80\sqrt{3}\,l^3r^2R+\right.\right.\right.$$
$$136l^2r^3R-80\sqrt{3}\,lr^4R-108r^5R-48l^4R^2+48\sqrt{3}\,l^3rR^2+528l^2r^2R^2-208\sqrt{3}\,lr^3R^2-480$$
$$\left.\left.\left.r^4R^2+384l^2rR^3-192\sqrt{3}\,lr^2R^3-960r^3R^3-768r^2R^4\right)\right)\Big/\left(3l^2-2\sqrt{3}\,lr-3r^2-12rR\right)^2\right)\right\}$$

$$\left\{\text{X20, DE LONGCHAMPS POINT, X63, ISOGONAL CONJUGATE OF X(19)},\ \frac{(r+2R)^2\left(-l^2+3r^2+4rR+4R^2\right)}{(r+R)^2}\right\}$$

$$\left\{\text{X20, DE LONGCHAMPS POINT, X64, ISOGONAL CONJUGATE OF X(20)},\right.$$
$$-\left(\left(l^6-7l^4r^2+7l^2r^4-r^6-12l^4rR+40l^2r^3R-12r^5R-4l^4R^2+68l^2r^2R^2-\right.\right.$$
$$\left.\left.52r^4R^2+32l^2rR^3-96r^3R^3-64r^2R^4\right)\Big/\left((l-r-2R)^2(l+r+2R)^2\right)\right)\right\}$$

$$\left\{\text{X20, DE LONGCHAMPS POINT, X65,}\right.$$
$$\left.\text{ORTHOCENTER OF THE INTOUCH TRIANGLE},\ \frac{-l^2r-3r^3-3l^2R+16rR^2+16R^3}{R}\right\}$$

$$\left\{\text{X20, DE LONGCHAMPS POINT, X66,}\right.$$
$$\text{ISOGONAL CONJUGATE OF X(22)},\ -\frac{1}{(l-r-2R)^2(l+r+2R)^2\left(l^2-r^2-4rR\right)^2}$$
$$\left(6l^{10}-38l^8r^2+84l^6r^4-84l^4r^6+38l^2r^8-6r^{10}-120l^8rR+576l^6r^3R-\right.$$
$$912l^4r^5R+576l^2r^7R-120r^9R-63l^8R^2+1264l^6r^2R^2-3746l^4r^4R^2+3568l^2r^6R^2-$$
$$1023r^8R^2+1008l^6rR^3-7280l^4r^3R^3+11632l^2r^5R^3-4848r^7R^3+220l^6R^4-$$
$$6804l^4r^2R^4+21364l^2r^4R^4-13948r^6R^4-2640l^4rR^5+21792l^2r^3R^5-24912r^5R^5-$$
$$\left.\left.256l^4R^6+11120l^2r^2R^6-26944r^4R^6+2048l^2rR^7-16128r^3R^7-4096r^2R^8\right)\right\}$$

$$\left\{\text{X20, DE LONGCHAMPS POINT, X67,}\right.$$
$$\text{ISOGONAL CONJUGATE OF X(23)},\ -\frac{1}{\left(l^2-r^2-4rR\right)^2\left(2l^2-2r^2-8rR-9R^2\right)}$$
$$\left(10l^8-64l^6r^2+108l^4r^4-64l^2r^6+10r^8-160l^6rR+672l^4r^3R-672l^2r^5R+\right.$$
$$160r^7R-75l^6R^2+1293l^4r^2R^2-2637l^2r^4R^2+1035r^6R^2+900l^4rR^3-4792l^2r^3R^3+$$
$$\left.\left.3460r^5R^3+144l^4R^4-3996l^2r^2R^4+6304r^4R^4-1152l^2rR^5+5952r^3R^5+2304r^2R^6\right)\right\}$$

$$\left\{X20,\ \text{DE LONGCHAMPS POINT},\ X68,\ \text{PRASOLOV POINT},\ -\frac{\left(2 l^2-2 r^2-8 r R-9 R^2\right)\left(3 l^4-10 l^2 r^2+3 r^4-24 l^2 r R+24 r^3 R-20 l^2 R^2+68 r^2 R^2+80 r R^3+36 R^4\right)}{(l-r-2 R)^2 (l+r+2 R)^2}\right\}$$

$$\left\{X20,\ \text{DE LONGCHAMPS POINT},\ X69,\ \text{SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},\ -\frac{1}{\left(l^2-r^2-4 r R\right)^2} 4\left(l^6-7 l^4 r^2+7 l^2 r^4-r^6-12 l^4 r R+40 l^2 r^3 R-12 r^5 R-4 l^4 R^2+68 l^2 r^2 R^2-52 r^4 R^2+32 l^2 r R^3-96 r^3 R^3-64 r^2 R^4\right)\right\}$$

$$\left\{X20,\ \text{DE LONGCHAMPS POINT},\ X70,\ \text{ISOGONAL CONJUGATE OF } X(26),\ -\left(\left(6 l^{10}-38 l^8 r^2+84 l^6 r^4-84 l^4 r^6+38 l^2 r^8-6 r^{10}-120 l^8 r R+576 l^6 r^3 R-912 l^4 r^5 R+576 l^2 r^7 R-120 r^9 R-89 l^8 R^2+1392 l^6 r^2 R^2-3950 l^4 r^4 R^2+3696 l^2 r^6 R^2-1049 r^8 R^2+1424 l^6 r R^3-8720 l^4 r^3 R^3+13\,072 l^2 r^5 R^3-5264 r^7 R^3+510 l^6 R^4-10\,306 l^4 r^2 R^4+27\,746 l^2 r^4 R^4-16\,734 r^6 R^4-6120 l^4 r R^5+35\,952 l^2 r^3 R^5-35\,048 r^5 R^5-1399 l^4 R^6+27\,506 l^2 r^2 R^6-48\,663 r^4 R^6+11\,192 l^2 r R^7-43\,832 r^3 R^7+1820 l^2 R^8-24\,204 r^2 R^8-7280 r R^9-900 R^{10}\right) / \left(l^4-2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-6 l^2 R^2+22 r^2 R^2+24 r R^3+7 R^4\right)^2\right)\right\}$$

$$\left\{X20,\ \text{DE LONGCHAMPS POINT},\ X71,\ \text{ISOGONAL CONJUGATE OF } X(27),\ -\frac{1}{\left(l^2+r^2+6 r R+8 R^2\right)^2}\left(l^6-l^4 r^2-5 l^2 r^4-3 r^6+16 l^4 r R-32 l^2 r^3 R-48 r^5 R+28 l^4 R^2-32 l^2 r^2 R^2-316 r^4 R^2+80 l^2 r R^3-1104 r^3 R^3+112 l^2 R^4-2176 r^2 R^4-2304 r R^5-1024 R^6\right)\right\}$$

$$\left\{X20,\ \text{DE LONGCHAMPS POINT},\ X72,\ \text{ISOGONAL CONJUGATE OF } X(28),\ \frac{2 l^2 r-4 l^2 R+r^2 R+8 r R^2+16 R^3}{R}\right\}$$

$$\left\{X20,\ \text{DE LONGCHAMPS POINT},\ X73,\ \text{CROSSPOINT OF INCENTER AND CIRCUMCENTER},\ -\frac{1}{\left(l^2+r^2-2 r R-4 R^2\right)^2}\left(3 l^6+5 l^4 r^2+l^2 r^4-r^6-28 l^4 r R-24 l^2 r^3 R+4 r^5 R-40 l^4 R^2+56 l^2 r^2 R^2+32 r^4 R^2+240 l^2 r R^3-16 r^3 R^3+176 l^2 R^4-320 r^2 R^4-512 r R^5-256 R^6\right)\right\}$$

$$\left\{X20,\ \text{DE LONGCHAMPS POINT},\ X74,\ \text{ISOGONAL CONJUGATE OF EULER INFINITY POINT},\ -\frac{3 l^4-10 l^2 r^2+3 r^4-24 l^2 r R+24 r^3 R-20 l^2 R^2+68 r^2 R^2+80 r R^3+36 R^4}{2 l^2-2 r^2-8 r R-9 R^2}\right\}$$

$$\left\{X20,\ \text{DE LONGCHAMPS POINT},\ X75,\ \text{ISOTOMIC CONJUGATE OF INCENTER},\ -\frac{1}{\left(l^2+r^2+4 r R\right)^2} 4\left(l^6+l^4 r^2-l^2 r^4-r^6+4 l^4 r R-16 l^2 r^3 R-12 r^5 R-4 l^4 R^2-44 l^2 r^2 R^2-52 r^4 R^2-32 l^2 r R^3-96 r^3 R^3-64 r^2 R^4\right)\right\}$$

$$\left\{X20,\ \text{DE LONGCHAMPS POINT},\ X76,\ \text{3rd BROCARD POINT},\ -\frac{1}{\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)^2} 4\left(l^{10}+3 l^8 r^2+2 l^6 r^4-2 l^4 r^6-3 l^2 r^8-r^{10}-20 l^8 r R-16 l^6 r^3 R+8 l^4 r^5 R-16 l^2 r^7 R-20 r^9 R-4 l^8 R^2+140 l^6 r^2 R^2-192 l^4 r^4 R^2+76 l^2 r^6 R^2-164 r^8 R^2+64 l^6 r R^3-544 l^4 r^3 R^3+672 l^2 r^5 R^3-704 r^7 R^3-384 l^4 r^2 R^4+1472 l^2 r^4 R^4-1664 r^6 R^4+1024 l^2 r^3 R^5-2048 r^5 R^5-1024 r^4 R^6\right)\right\}$$

$$\left\{X20,\ \text{DE LONGCHAMPS POINT},\ X77,\ \text{ISOGONAL CONJUGATE OF } X(33),\ -\frac{\left(3 l^2-r^2-8 r R-16 R^2\right)\left(l^2-2 r R-4 R^2\right)^2}{\left(l^2-r R-4 R^2\right)^2}\right\}$$

$$\left\{X20,\ \text{DE LONGCHAMPS POINT},\ X78,\ \text{ISOGONAL CONJUGATE OF } X(34),\ \frac{-3 l^2 r^2+r^4+8 l^2 r R-4 l^2 R^2-12 r^2 R^2-16 r R^3+16 R^4}{(r-R)^2}\right\}$$

$$\left\{X20,\ \text{DE LONGCHAMPS POINT},\ X79,\ \text{ISOGONAL CONJUGATE OF } X(35),\ \frac{-40 l^2 r^2+24 r^4-66 l^2 r R+166 r^3 R-27 l^2 R^2+409 r^2 R^2+408 r R^3+144 R^4}{(2 r+3 R)^2}\right\}$$

$$\left\{X20,\ \text{DE LONGCHAMPS POINT},\ X80,\ \text{REFLECTION OF INCENTER IN FEUERBACH POINT},\ \frac{-12 l^2 r+20 r^3+3 l^2 R+55 r^2 R+40 r R^2-16 R^3}{2 r-R}\right\}$$

$$\left\{X20,\ \text{DE LONGCHAMPS POINT},\ X81,\ \text{CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},\ -\frac{1}{\left(l^2-r^2-r R\right)^2}\left(3 l^6-5 l^4 r^2+5 l^2 r^4-3 r^6-16 l^4 r R+32 l^2 r^3 R-16 r^5 R-16 l^4 R^2+60 l^2 r^2 R^2-32 r^4 R^2+32 l^2 r R^3-32 r^3 R^3-16 r^2 R^4\right)\right\}$$

$$\left\{X20,\ \text{DE LONGCHAMPS POINT},\ X82,\ \text{ISOGONAL CONJUGATE OF } X(38),\ -\frac{1}{\left(l^4-4 l^2 r^2+3 r^4-9 l^2 r R+19 r^3 R+28 r^2 R^2\right)^2}\left(3 l^{10}-21 l^8 r^2+58 l^6 r^4-86 l^4 r^6+67 l^2 r^8-21 r^{10}-64 l^8 r R+388 l^6 r^3 R-860 l^4 r^5 R+892 l^2 r^7 R-356 r^9 R-16 l^8 R^2+708 l^6 r^2 R^2-3124 l^4 r^4 R^2+4764 l^2 r^6 R^2-2524 r^8 R^2+288 l^6 r R^3-4560 l^4 r^3 R^3+12608 l^2 r^5 R^3-9648 r^7 R^3-2192 l^4 r^2 R^4+16208 l^2 r^4 R^4-21072 r^6 R^4+8064 l^2 r^3 R^5-24960 r^5 R^5-12544 r^4 R^6\right)\right\}$$

$$\left\{X20,\ \text{DE LONGCHAMPS POINT},\ X83,\ \text{CEVAPOINT OF CENTROID AND SYMMEDIAN POINT},\ -\frac{1}{\left(5 l^4-6 l^2 r^2+5 r^4-40 l^2 r R+40 r^3 R+80 r^2 R^2\right)^2}4\left(21 l^{10}-41 l^8 r^2+66 l^6 r^4-66 l^4 r^6+41 l^2 r^8-21 r^{10}-420 l^8 r R+912 l^6 r^3 R-1176 l^4 r^5 R+912 l^2 r^7 R-420 r^9 R-100 l^8 R^2+3532 l^6 r^2 R^2-7296 l^4 r^4 R^2+7180 l^2 r^6 R^2-3460 r^8 R^2+1600 l^6 r R^3-16416 l^4 r^3 R^3+25760 l^2 r^5 R^3-15040 r^7 R^3-9600 l^4 r^2 R^4+42432 l^2 r^4 R^4-36480 r^6 R^4+25600 l^2 r^3 R^5-47104 r^5 R^5-25600 r^4 R^6\right)\right\}$$

$$\left\{X20,\ \text{DE LONGCHAMPS POINT},\ X84,\ \text{ISOGONAL CONJUGATE OF } X(40),\ \frac{(r+2 R)^2\left(-l^2+3 r^2+4 r R+4 R^2\right)}{r^2}\right\}$$

$$\left\{X20,\ \text{DE LONGCHAMPS POINT},\ X85,\ \text{ISOTOMIC CONJUGATE OF } X(9),\ -\frac{1}{\left(l^2+r^2+8 r R+16 R^2\right)^2}4\left(l^6+l^4 r^2-l^2 r^4-r^6+20 l^4 r R-8 l^2 r^3 R-20 r^5 R+28 l^4 R^2-12 l^2 r^2 R^2-164 r^4 R^2+32 l^2 r R^3-704 r^3 R^3+64 l^2 R^4-1664 r^2 R^4-2048 r R^5-1024 R^6\right)\right\}$$

$$\left\{X20,\ \text{DE LONGCHAMPS POINT},\ X86,\ \text{CEVAPOINT OF INCENTER AND CENTROID},\ -\frac{1}{\left(5 l^2+r^2+4 r R\right)^2}4\left(21 l^6+l^4 r^2-5 l^2 r^4-r^6-44 l^4 r R-56 l^2 r^3 R-12 r^5 R-100 l^4 R^2-172 l^2 r^2 R^2-52 r^4 R^2-160 l^2 r R^3-96 r^3 R^3-64 r^2 R^4\right)\right\}$$

$$\left\{X20,\ \text{DE LONGCHAMPS POINT},\ X87,\ X(2)\text{-CROSS CONJUGATE OF } X(1),\ -\frac{1}{\left(l^4+2 l^2 r^2+r^4-20 l^2 r R+12 r^3 R+32 r^2 R^2\right)^2}\left(3 l^{10}+11 l^8 r^2+14 l^6 r^4+6 l^4 r^6-l^2 r^8-r^{10}-136 l^8 r R-192 l^6 r^3 R-16 l^4 r^5 R-40 r^9 R-16 l^8 R^2+1920 l^6 r^2 R^2-736 l^4 r^4 R^2+896 l^2 r^6 R^2-528 r^8 R^2+640 l^6 r R^3-9216 l^4 r^3 R^3+7296 l^2 r^5 R^3-3328 r^7 R^3-7424 l^4 r^2 R^4+23296 l^2 r^4 R^4-11264 r^6 R^4+20480 l^2 r^3 R^5-20480 r^5 R^5-16384 r^4 R^6\right)\right\}$$

$$\left\{\text{X20, DE LONGCHAMPS POINT, X88, ISOGONAL CONJUGATE OF X(44)},\right.$$
$$\left.-\frac{1}{\left(l^2+3r^2-15rR\right)^2}\left(3l^6+11l^4r^2-3l^2r^4-27r^6-104l^4rR-192l^2r^3R+216r^5R-16l^4R^2+1020l^2r^2R^2+288r^4R^2+480l^2rR^3-2016r^3R^3-3600r^2R^4\right)\right\}$$

$$\left\{\text{X20, DE LONGCHAMPS POINT, X89, ISOGONAL CONJUGATE OF X(45)},\right.$$
$$\left.-\frac{1}{\left(2l^2-6r^2+3rR\right)^2}4\left(3l^6-13l^4r^2+21l^2r^4-27r^6-2l^4rR+48l^2r^3R-54r^5R-16l^4R^2+60l^2r^2R^2+72r^4R^2-48l^2rR^3+144r^3R^3-36r^2R^4\right)\right\}$$

$$\left\{\text{X20, DE LONGCHAMPS POINT, X90, X(3)-CROSS CONJUGATE OF X(1)},\right.$$
$$\left.\frac{1}{\left(r^2+2rR-R^2\right)^2}\left(-l^2r^4+3r^6-10l^2r^3R+26r^5R-20l^2r^2R^2+84r^4R^2+18l^2rR^3+110r^3R^3-3l^2R^4+9r^2R^4-72rR^5+16R^6\right)\right\}$$

$$\left\{\text{X20, DE LONGCHAMPS POINT, X91, ISOGONAL CONJUGATE OF X(47)},\right.$$
$$\left.-\left(\left(4l^6r^2+4l^4r^4-4l^2r^6-4r^8-8l^6rR+12l^4r^3R-48l^2r^5R-36r^7R+3l^6R^2+17l^4r^2R^2-127l^2r^4R^2-125r^6R^2+32l^4rR^3-96l^2r^3R^3-224r^5R^3-28l^4R^4+16l^2r^2R^4-276r^4R^4+48l^2rR^5-320r^3R^5+76l^2R^6-292r^2R^6-160rR^7-64R^8\right)\Big/\left(l^2r+r^3-l^2R+3r^2R+2rR^2+2R^3\right)^2\right)\right\}$$

$$\left\{\text{X20, DE LONGCHAMPS POINT, X92, CEVAPOINT OF INCENTER AND CLAWSON POINT},\right.$$
$$\left.-\frac{1}{\left(l^2+r^2-4R^2\right)^2}4\left(l^6+l^4r^2-l^2r^4-r^6-12l^2r^3R-4r^5R-12l^4R^2-32l^2r^2R^2+8r^4R^2+64r^3R^3+48l^2R^4+96r^2R^4-64R^6\right)\right\}$$

$$\left\{\text{X20, DE LONGCHAMPS POINT, X93, ISOGONAL CONJUGATE OF X(49)},\right.$$
$$\left.-\left(\left(4\left(l^{10}+3l^8r^2+2l^6r^4-2l^4r^6-3l^2r^8-r^{10}-20l^8rR-16l^6r^3R+8l^4r^5R-16l^2r^7R-20r^9R-21l^8R^2+156l^6r^2R^2-126l^4r^4R^2+92l^2r^6R^2-181r^8R^2+336l^6rR^3-944l^4r^3R^3+1072l^2r^5R^3-976r^7R^3+165l^6R^4-2203l^4r^2R^4+4091l^2r^4R^4-3461r^6R^4-1980l^4rR^5+8104l^2r^3R^5-8380r^5R^5-613l^4R^6+8834l^2r^2R^6-13909r^4R^6+4904l^2rR^7-15464r^3R^7+1080l^2R^8-10888r^2R^8-4320rR^9-729R^{10}\right)\right)\Big/\left(l^4+2l^2r^2+r^4-8l^2rR+8r^3R-8l^2R^2+24r^2R^2+32rR^3+13R^4\right)^2\right)\right\}$$

$$\left\{\text{X20, DE LONGCHAMPS POINT, X94, ISOGONAL CONJUGATE OF X(50)},\right.$$
$$\left.-\left(\left(4\left(l^{10}+3l^8r^2+2l^6r^4-2l^4r^6-3l^2r^8-r^{10}-20l^8rR-16l^6r^3R+8l^4r^5R-16l^2r^7R-20r^9R-28l^8R^2+152l^6r^2R^2-120l^4r^4R^2+88l^2r^6R^2-188r^8R^2+448l^6rR^3-1024l^4r^3R^3+1152l^2r^5R^3-1088r^7R^3+285l^6R^4-2931l^4r^2R^4+4979l^2r^4R^4-4253r^6R^4-3420l^4rR^5+11560l^2r^3R^5-11612r^5R^5-1386l^4R^6+15480l^2r^2R^6-22234r^4R^6+11088l^2rR^7-29328r^3R^7+3240l^2R^8-25416r^2R^8-12960rR^9-2916R^{10}\right)\right)\Big/\left(l^4+2l^2r^2+r^4-8l^2rR+8r^3R-12l^2R^2+28r^2R^2+48rR^3+27R^4\right)^2\right)\right\}$$

$$\left\{\text{X20, DE LONGCHAMPS POINT, X95, CEVAPOINT OF CENTROID AND CIRCUMCENTER},\right.$$
$$\left.-\left(\left(4\left(l^{10}+27l^8r^2+154l^6r^4-154l^4r^6-27l^2r^8-r^{10}-20l^8rR-304l^6r^3R-312l^4r^5R-304l^2r^7R-20r^9R-12l^8R^2-36l^6r^2R^2+368l^4r^4R^2-1252l^2r^6R^2-172r^8R^2+192l^6rR^3+736l^4r^3R^3-2144l^2r^5R^3-832r^7R^3+48l^6R^4-880l^4r^2R^4-592l^2r^4R^4-2480r^6R^4-576l^4rR^5+2560l^2r^3R^5-4672r^5R^5-64l^4R^6+2624l^2r^2R^6-5440r^4R^6+512l^2rR^7-3584r^3R^7-1024r^2R^8\right)\right)\Big/\left(l^4+18l^2r^2+r^4-8l^2rR+8r^3R-4l^2R^2+20r^2R^2+16rR^3\right)^2\right)\right\}$$

$$\left\{X20,\ \text{DE LONGCHAMPS POINT},\ X96,\ \text{ISOGONAL CONJUGATE OF } X(52),\ \frac{1}{\left(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2-4 R^4\right)^2}\right.$$
$$\left.4\left(8 l^8 r^2-120 l^6 r^4+120 l^4 r^6-8 l^2 r^8-96 l^6 r^3 R+576 l^4 r^5 R-96 l^2 r^7 R-l^8 R^2-16 l^6 r^2 R^2+930 l^4 r^4 R^2-400 l^2 r^6 R^2-r^8 R^2+16 l^6 r R^3+112 l^4 r^3 R^3-624 l^2 r^5 R^3-16 r^7 R^3+8 l^6 R^4-360 l^4 r^2 R^4+136 l^2 r^4 R^4-104 r^6 R^4-96 l^4 r R^5+1408 l^2 r^3 R^5-352 r^5 R^5+16 l^4 R^6+848 l^2 r^2 R^6-624 r^4 R^6-128 l^2 r R^7-384 r^3 R^7-128 l^2 R^8+384 r^2 R^8+512 r R^9+144 R^{10}\right)\right\}$$

$$\left\{X20,\ \text{DE LONGCHAMPS POINT},\ X97,\ \text{ISOGONAL CONJUGATE OF } X(53),\right.$$
$$-\left(\left(3 l^{10}-31 l^8 r^2+94 l^6 r^4-94 l^4 r^6+31 l^2 r^8-3 r^{10}-60 l^8 r R+432 l^6 r^3 R-808 l^4 r^5 R+432 l^2 r^7 R-60 r^9 R-60 l^8 R^2+924 l^6 r^2 R^2-3056 l^4 r^4 R^2+2652 l^2 r^6 R^2-540 r^8 R^2+960 l^6 r R^3-6432 l^4 r^3 R^3+9376 l^2 r^5 R^3-2880 r^7 R^3+464 l^6 R^4-7984 l^4 r^2 R^4+20848 l^2 r^4 R^4-10064 r^6 R^4-5568 l^4 r R^5+29824 l^2 r^3 R^5-24000 r^5 R^5-1744 l^4 R^6+26848 l^2 r^2 R^6-39376 r^4 R^6+13952 l^2 r R^7-43648 r^3 R^7+3200 l^2 R^8-31104 r^2 R^8-12800 r R^9-2304 R^{10}\right)\Big/\left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-7 l^2 R^2+23 r^2 R^2+28 r R^3+12 R^4\right)^2\right)\Big\}$$

$$\left\{X20,\ \text{DE LONGCHAMPS POINT},\ X98,\ \text{TarryPoint},\ \frac{4\left(8 l^4 r^2-8 l^2 r^4-32 l^2 r^3 R+l^4 R^2-50 l^2 r^2 R^2+r^4 R^2-8 l^2 r R^3+8 r^3 R^3+16 r^2 R^4\right)}{l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2}\right\}$$

$$\left\{X20,\ \text{DE LONGCHAMPS POINT},\ X99,\ \text{STEINER POINT},\right.$$
$$\left.-\left(\left(4\left(l^6-7 l^4 r^2+7 l^2 r^4-r^6-12 l^4 r R+40 l^2 r^3 R-12 r^5 R-4 l^4 R^2+68 l^2 r^2 R^2-52 r^4 R^2+32 l^2 r R^3-96 r^3 R^3-64 r^2 R^4\right)\right)\Big/\left(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)\right)\right\}$$

$$\left\{X20,\ \text{DE LONGCHAMPS POINT},\ X100,\ \text{ANTICOMPLEMENT OF FEUERBACH POINT},\ \frac{4\left(-l^2 r+r^3+l^2 R+2 r^2 R-4 R^3\right)}{2 r-R}\right\}$$

$$\left\{X21,\ \text{SCHIFFLER POINT},\ X22,\ \text{ExeterPoint},\ \frac{R^2\left(-l^2+r^2+2 r R\right)^2\left(-2 l^2+2 r^2+8 r R+9 R^2\right)}{(2 r+3 R)^2\left(-l^2+r^2+4 r R+3 R^2\right)^2}\right\}$$

$$\left\{X21,\ \text{SCHIFFLER POINT},\ X23,\ \text{FarOutPoint},\ \frac{4 R^2\left(-l^2+r^2+r R\right)^2}{(2 r+3 R)^2\left(-2 l^2+2 r^2+8 r R+9 R^2\right)}\right\}$$

$$\left\{X21,\ \text{SCHIFFLER POINT},\ X24,\ \text{PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE},\ \frac{R^2\left(-l^2+r^2+2 r R+2 R^2\right)^2\left(-2 l^2+2 r^2+8 r R+9 R^2\right)}{(2 r+3 R)^2\left(-l^2+r^2+4 r R+5 R^2\right)^2}\right\}$$

$$\left\{X21,\ \text{SCHIFFLER POINT},\ X25,\ \text{HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES},\ \frac{(-l+r)^2(l+r)^2 R^2\left(-2 l^2+2 r^2+8 r R+9 R^2\right)}{(2 r+3 R)^2\left(-l^2+r^2+4 r R+6 R^2\right)^2}\right\}$$

$$\left\{X21,\ \text{SCHIFFLER POINT},\ X26,\ \text{CIRCUMCENTER OF THE TANGENTIAL TRIANGLE},\ \frac{R^2(-l+r+R)^2(l+r+R)^2\left(-2 l^2+2 r^2+8 r R+9 R^2\right)}{(-l+r+2 R)^2(l+r+2 R)^2(2 r+3 R)^2}\right\}$$

$$\left\{X21,\ \text{SCHIFFLER POINT},\ X27,\ \text{CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER},\ \frac{4(r+2 R)^2\left(l^2+r^2+2 r R\right)^2\left(-2 l^2+2 r^2+8 r R+9 R^2\right)}{(2 r+3 R)^2\left(-l^2+3 r^2+12 r R+12 R^2\right)^2}\right\}$$

$$\left\{X21,\ \text{SCHIFFLER POINT},\ X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),\ \frac{R^2\left(l^2+r^2+2 r R\right)^2\left(-2 l^2+2 r^2+8 r R+9 R^2\right)}{(2 r+3 R)^2\left(-l^2+r^2+5 r R+6 R^2\right)^2}\right\}$$

$$\left\{X21,\ \text{SCHIFFLER POINT},\ X29,\ \text{CEVAPOINT OF INCENTER AND ORTHOCENTER},\ \frac{4 r^2 \left(l^2+r^2+2 r R\right)^2 \left(-2 l^2+2 r^2+8 r R+9 R^2\right)}{(2 r+3 R)^2 \left(-3 l^2+r^2+8 r R+12 R^2\right)^2}\right\}$$

$$\left\{X21,\ \text{SCHIFFLER POINT},\ X30,\ \text{EulerInfinityPoint},\ \infty\right\}$$

$$\left\{X21,\ \text{SCHIFFLER POINT},\ X31,\ \text{SecondPowerPoint},\ -\frac{\left(l^2+r^2\right)^2 R \left(-2 l^2 r+6 r^3-l^2 R+19 r^2 R+16 r R^2\right)}{(2 r+3 R)^2 \left(-l^2+3 r^2+6 r R\right)^2}\right\}$$

$$\left\{X21,\ \text{SCHIFFLER POINT},\ X32,\ \text{ThirdPowerPoint},\ -\frac{1}{(2 r+3 R)^2 \left(-l^2-2 l r+r^2+4 r R\right)^2 \left(-l^2+2 l r+r^2+4 r R\right)^2} R \left(-2 l^{10} r+10 l^8 r^3+12 l^6 r^5-12 l^4 r^7-10 l^2 r^9+2 r^{11}-l^{10} R+25 l^8 r^2 R+22 l^6 r^4 R-126 l^4 r^6 R-85 l^2 r^8 R+37 r^{10} R+20 l^8 r R^2-48 l^6 r^3 R^2-392 l^4 r^5 R^2-176 l^2 r^7 R^2+276 r^9 R^2-52 l^6 r^2 R^3-520 l^4 r^4 R^3+140 l^2 r^6 R^3+1056 r^8 R^3-224 l^4 r^3 R^4+608 l^2 r^5 R^4+2176 r^7 R^4+448 l^2 r^4 R^5+2304 r^6 R^5+1024 r^5 R^6\right)\right\}$$

$$\left\{X21,\ \text{SCHIFFLER POINT},\ X33,\ \text{PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES},\ \left(R \left(2 l^6 r-18 l^4 r^3+14 l^2 r^5+2 r^7+l^6 R-41 l^4 r^2 R+87 l^2 r^4 R+17 r^6 R-36 l^4 r R^2+264 l^2 r^3 R^2-4 r^5 R^2-8 l^4 R^3+344 l^2 r^2 R^3-256 r^4 R^3+176 l^2 r R^4-688 r^3 R^4+16 l^2 R^5-704 r^2 R^5-256 r R^6\right)\right) / \left((2 r+3 R)^2 \left(-l^2+r^2+2 r R+4 R^2\right)^2\right)\right\}$$

$$\left\{X21,\ \text{SCHIFFLER POINT},\ X34,\ X(4)\text{-BETH CONJUGATE OF } X(4),\ -\left(\left(R \left(-2 l^6 r+2 l^4 r^3-14 l^2 r^5+14 r^7-l^6 R+33 l^4 r^2 R-55 l^2 r^4 R+87 r^6 R+44 l^4 r R^2-184 l^2 r^3 R^2+236 r^5 R^2+8 l^4 R^3-328 l^2 r^2 R^3+432 r^4 R^3-208 l^2 r R^4+656 r^3 R^4-16 l^2 R^5+640 r^2 R^5+256 r R^6\right)\right) / \left((2 r+3 R)^2 \left(-l^2+r^2+6 r R+4 R^2\right)^2\right)\right)\right\}$$

$$\left\{X21,\ \text{SCHIFFLER POINT},\ X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),\ \frac{(2 r-R) R^2 \left(-2 l^2 r+6 r^3-l^2 R+19 r^2 R+16 r R^2\right)}{(2 r+R)^2 (2 r+3 R)^2}\right\}$$

$$\left\{X21,\ \text{SCHIFFLER POINT},\ X36,\ \text{INVERSE-IN-CIRCUMCIRCLE OF INCENTER},\ \frac{R^2 \left(-6 l^2 r+2 r^3-l^2 R+11 r^2 R+16 r R^2\right)}{(2 r-R) (2 r+3 R)^2}\right\}$$

$$\left\{X21,\ \text{SCHIFFLER POINT},\ X37,\ \text{CrosspointOfIncenterAndCentroid},\ -\left(\left(R \left(-2 l^6 r+14 l^4 r^3-14 l^2 r^5+2 r^7-l^6 R+27 l^4 r^2 R-63 l^2 r^4 R+21 r^6 R+20 l^4 r R^2-120 l^2 r^3 R^2+76 r^5 R^2-68 l^2 r^2 R^3+112 r^4 R^3+64 r^3 R^4\right)\right) / \left((2 r+3 R)^2 \left(l^2+r^2+4 r R\right)^2\right)\right)\right\}$$

$$\left\{X21,\ \text{SCHIFFLER POINT},\ X38,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(75),\ -\frac{R \left(-l^2+3 r^2+8 r R\right)^2 \left(-2 l^2 r+6 r^3-l^2 R+19 r^2 R+16 r R^2\right)}{(2 r+3 R)^2 \left(l^2+r^2-2 r R\right)^2}\right\}$$

$$\left\{X21,\ \text{SCHIFFLER POINT},\ X39,\ \text{BrocardMidpoint},\ -\frac{1}{(2 r+3 R)^2 \left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)^2} R \left(-2 l^{10} r-6 l^8 r^3-4 l^6 r^5+4 l^4 r^7+6 l^2 r^9+2 r^{11}-l^{10} R+33 l^8 r^2 R+94 l^6 r^4 R-134 l^4 r^6 R+99 l^2 r^8 R+37 r^{10} R+20 l^8 r R^2-48 l^6 r^3 R^2-776 l^4 r^5 R^2+592 l^2 r^7 R^2+276 r^9 R^2-52 l^6 r^2 R^3-904 l^4 r^4 R^3+1548 l^2 r^6 R^3+1056 r^8 R^3-224 l^4 r^3 R^4+1632 l^2 r^5 R^4+2176 r^7 R^4+448 l^2 r^4 R^5+2304 r^6 R^5+1024 r^5 R^6\right)\right\}$$

$$\left\{X21,\ \text{SCHIFFLER POINT},\ X40,\ \text{BEVAN POINT},\ -\frac{R \left(2 l^2 r+10 r^3+5 l^2 R+17 r^2 R-20 r R^2-36 R^3\right)}{(2 r+3 R)^2}\right\}$$

$$\left\{X21,\ \text{SCHIFFLER POINT},\ X41,\ X(6)\text{-CEVA CONJUGATE OF } X(31),\ -\frac{R\left(l^2+r^2+4rR\right)^2\left(-6l^2r^3+2r^5-7l^2r^2R+21r^4R-8l^2rR^2+76r^3R^2-4l^2R^3+112r^2R^3+64rR^4\right)}{(2r+3R)^2\left(-3l^2r+r^3-2l^2R+8r^2R+16rR^2\right)^2}\right\}$$

$$\left\{X21,\ \text{SCHIFFLER POINT},\ X42,\ \text{CROSSPOINT OF INCENTER AND SYMMEDIAN POINT},\ \left(R\left(2l^6r+6l^4r^3+6l^2r^5+2r^7+l^6R-5l^4r^2R-61l^2r^4R+9r^6R-8l^4rR^2-168l^2r^3R^2-96r^5R^2-112l^2r^2R^3-320r^4R^3-256r^3R^4\right)\right)\Big/\left((2r+3R)^2\left(l^2+r^2-2rR\right)^2\right)\right\}$$

$$\left\{X21,\ \text{SCHIFFLER POINT},\ X43,\ X(6)\text{-CEVA CONJUGATE OF } X(1),\ \left(R\left(2l^6r+14l^4r^3+22l^2r^5+10r^7+l^6R-9l^4r^2R-117l^2r^4R+149r^6R-8l^4rR^2-192l^2r^3R^2+328r^5R^2-112l^2r^2R^3+80r^4R^3-256r^3R^4\right)\right)\Big/\left((2r+3R)^2\left(l^2+r^2-8rR\right)^2\right)\right\}$$

$$\left\{X21,\ \text{SCHIFFLER POINT},\ X44,\ X(6)\text{-LINE CONJUGATE OF } X(1),\ -\left(\left(R\left(-2l^6r-18l^4r^3-30l^2r^5+18r^7-l^6R-5l^4r^2R+105l^2r^4R+189r^6R+4l^4rR^2+264l^2r^3R^2+684r^5R^2+156l^2r^2R^3+1008r^4R^3+576r^3R^4\right)\right)\Big/\left((2r+3R)^2\left(-l^2+3r^2+12rR\right)^2\right)\right)\right\}$$

$$\left\{X21,\ \text{SCHIFFLER POINT},\ X45,\ X(9)\text{-BETH CONJUGATE OF } X(1),\ -\left(\left(R\left(-2l^6r+30l^4r^3-78l^2r^5+18r^7-l^6R+43l^4r^2R-231l^2r^4R+189r^6R+28l^4rR^2-408l^2r^3R^2+684r^5R^2-228l^2r^2R^3+1008r^4R^3+576r^3R^4\right)\right)\Big/\left((2r+3R)^2\left(l^2+3r^2+12rR\right)^2\right)\right)\right\}$$

$$\left\{X21,\ \text{SCHIFFLER POINT},\ X46,\ X(4)\text{-CEVA CONJUGATE OF } X(1),\ -\frac{R\left(2l^2r^3+10r^5+5l^2r^2R+33r^4R-6l^2rR^2+30r^3R^2-l^2R^3+11r^2R^3+16rR^4\right)}{(r-R)^2(2r+3R)^2}\right\}$$

$$\left\{X21,\ \text{SCHIFFLER POINT},\ X47,\ X(110)\text{-BETH CONJUGATE OF } X(34),\ -\frac{R\left(l^2+r^2-2R^2\right)^2\left(-2l^2r+6r^3-l^2R+19r^2R+16rR^2\right)}{(2r+3R)^2\left(-l^2+3r^2+6rR+2R^2\right)^2}\right\}$$

$$\left\{X21,\ \text{SCHIFFLER POINT},\ X48,\ \text{CROSSPOINT OF } X(1)\ \text{AND } X(63),\ -\left(\left(R\left(-6l^6r-10l^4r^3-2l^2r^5+2r^7+9l^6R-17l^4r^2R+3l^2r^4R+29r^6R-8l^4rR^2+32l^2r^3R^2+168r^5R^2-36l^4R^3+16l^2r^2R^3+500r^4R^3-48l^2rR^4+816r^3R^4-16l^2R^5+704r^2R^5+256rR^6\right)\right)\Big/\left((2r+3R)^2\left(-3l^2+r^2+6rR+8R^2\right)^2\right)\right)\right\}$$

$$\left\{X21,\ \text{SCHIFFLER POINT},\ X49,\ \text{CENTER OF SINE-TRIPLE-ANGLE CIRCLE},\ -\left(\left(R\left(-4l^6r-4l^4r^3+4l^2r^5+4r^7+2l^6R+6l^4r^2R+38l^2r^4R+34r^6R+10l^4rR^2+84l^2r^3R^2+106r^5R^2-14l^4R^3+52l^2r^2R^3+146r^4R^3+12l^2rR^4+84r^3R^4+20l^2R^5+12r^2R^5-8rR^6-9R^7\right)\right)\Big/\left((2r+3R)^2\left(-2l^2+2r^2+8rR+7R^2\right)^2\right)\right)\right\}$$

$$\left\{X21,\ \text{SCHIFFLER POINT},\ X50,\ X(74)\text{-CEVA CONJUGATE OF } X(184),\ -\left(\left(R\left(-2l^{10}r+10l^8r^3+12l^6r^5-12l^4r^7-10l^2r^9+2r^{11}-l^{10}R+25l^8r^2R+22l^6r^4R-126l^4r^6R-85l^2r^8R+37r^{10}R+32l^8rR^2-72l^6r^3R^2-464l^4r^5R^2-200l^2r^7R^2+288r^9R^2+6l^8R^3-160l^6r^2R^3-772l^4r^4R^3+176l^2r^6R^3+1230r^8R^3-114l^6rR^4-482l^4r^3R^4+1538l^2r^5R^4+3154r^7R^4-9l^6R^5+27l^4r^2R^5+2689l^2r^4R^5+4989r^6R^5+108l^4rR^6+1992l^2r^3R^6+4780r^5R^6+540l^2r^2R^7+2544r^4R^7+576r^3R^8\right)\right)\Big/\left((2r+3R)^2\left(l^4-6l^2r^2+r^4-8l^2rR+8r^3R-3l^2R^2+19r^2R^2+12rR^3\right)^2\right)\right)\right\}$$

$$\left\{X21,\ \text{SCHIFFLER POINT},\ X51,\ \text{CENTROID OF ORTHIC TRIANGLE},\ -\frac{4l^4r^2+72l^2r^4+4r^6+160l^2r^3R+32r^5R-9l^4R^2+110l^2r^2R^2+71r^4R^2+64r^3R^3}{36R^2(2r+3R)^2}\right\}$$

$$\left\{X21,\ \text{SCHIFFLER POINT},\ X52,\ \text{ORTHOCENTER OF ORTHIC TRIANGLE},\ \frac{1}{4R^2(2r+3R)^2}\left(4l^4r^2-56l^2r^4+4r^6+16l^4rR-192l^2r^3R+48r^5R+15l^4R^2-242l^2r^2R^2+207r^4R^2-144l^2rR^3+400r^3R^3-44l^2R^4+380r^2R^4+176rR^5+36R^6\right)\right\}$$

$$\{X21,\ \text{SCHIFFLER POINT},\ X53,\ \text{SYMMEDIAN POINT OF ORTHIC TRIANGLE},$$
$$-\Big(\big(-16 l^8 r^4 + 112 l^6 r^6 - 112 l^4 r^8 + 16 l^2 r^{10} - 2 l^{10} r R - 6 l^8 r^3 R + 316 l^6 r^5 R - 764 l^4 r^7 R + 198 l^2 r^9 R + 2 r^{11} R - l^{10} R^2 + 37 l^8 r^2 R^2 + 290 l^6 r^4 R^2 - 2090 l^4 r^6 R^2 + 1023 l^2 r^8 R^2 + 37 r^{10} R^2 + 36 l^8 r R^3 - 16 l^6 r^3 R^3 - 2856 l^4 r^5 R^3 + 2928 l^2 r^7 R^3 + 292 r^9 R^3 + 8 l^8 R^4 - 244 l^6 r^2 R^4 - 2088 l^4 r^4 R^4 + 5196 l^2 r^6 R^4 + 1288 r^8 R^4 - 160 l^6 r R^5 - 768 l^4 r^3 R^5 + 6144 l^2 r^5 R^5 + 3488 r^7 R^5 - 16 l^6 R^6 + 80 l^4 r^2 R^6 + 5168 l^2 r^4 R^6 + 5968 r^6 R^6 + 192 l^4 r R^7 + 3072 l^2 r^3 R^7 + 6336 r^5 R^7 + 960 l^2 r^2 R^8 + 3840 r^4 R^8 + 1024 r^3 R^9\big) \Big/ \big((2 r + 3 R)^2 \left(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 4 l^2 R^2 + 20 r^2 R^2 + 16 r R^3\right)^2\big)\Big)\}$$

$$\{X21,\ \text{SCHIFFLER POINT},\ X54,\ \text{KosnitaPoint},$$
$$-\Big(\big(R\left(-4 l^6 r - 4 l^4 r^3 + 4 l^2 r^5 + 4 r^7 + 2 l^6 R + 10 l^4 r^2 R + 46 l^2 r^4 R + 38 r^6 R + 2 l^4 r R^2 + 100 l^2 r^3 R^2 + 130 r^5 R^2 - 19 l^4 R^3 + 90 l^2 r^2 R^3 + 189 r^4 R^3 + 76 l^2 r R^4 + 84 r^3 R^4 + 44 l^2 R^5 - 80 r^2 R^5 - 104 r R^6 - 36 R^7\right)\big) \Big/ \big((2 r + 3 R)^2 \left(-2 l^2 + 2 r^2 + 8 r R + 5 R^2\right)^2\big)\Big)\}$$

$$\{X21,\ \text{SCHIFFLER POINT},\ X55,\ \text{INSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),$$
$$\frac{R^2 \left(4 r^4 + l^2 r R + 5 r^3 R + l^2 R^2 - 12 r^2 R^2 - 16 r R^3\right)}{(r + R)^2 (2 r + 3 R)^2}\}$$

$$\{X21,\ \text{SCHIFFLER POINT},\ X56,\ \text{EXSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),$$
$$-\frac{R^2 \left(4 l^2 r^2 - 3 l^2 r R + r^3 R - l^2 R^2 + 8 r^2 R^2 + 16 r R^3\right)}{(r - R)^2 (2 r + 3 R)^2}\}$$

$$\{X21,\ \text{SCHIFFLER POINT},\ X57,\ \text{ISOGONAL CONJUGATE OF } X(9),$$
$$-\frac{R \left(2 l^2 r^3 + 10 r^5 + 5 l^2 r^2 R + 49 r^4 R - 16 l^2 r R^2 + 92 r^3 R^2 - 4 l^2 R^3 + 96 r^2 R^3 + 64 r R^4\right)}{(r - 2 R)^2 (2 r + 3 R)^2}\}$$

$$\{X21,\ \text{SCHIFFLER POINT},\ X58,\ \text{ISOGONAL CONJUGATE OF } X(10),$$
$$-\frac{R \left(l^2 + r^2 + 2 r R\right)^2 \left(-2 l^2 r + 6 r^3 - l^2 R + 19 r^2 R + 16 r R^2\right)}{(2 r + 3 R)^2 \left(-l^2 + 3 r^2 + 4 r R\right)^2}\}$$

$$\{X21,\ \text{SCHIFFLER POINT},\ X59,\ \text{ISOGONAL CONJUGATE OF } X(11),$$
$$-\Big(\big(R\left(-2 l^6 r^2 - 2 l^4 r^4 + 2 l^2 r^6 + 2 r^8 + 3 l^6 r R + 9 l^4 r^3 R + 25 l^2 r^5 R + 19 r^7 R + l^6 R^2 - 14 l^4 r^2 R^2 + 25 l^2 r^4 R^2 + 56 r^6 R^2 - 44 l^4 r R^3 + 32 l^2 r^3 R^3 + 44 r^5 R^3 - 8 l^4 R^4 + 188 l^2 r^2 R^4 - 48 r^4 R^4 + 192 l^2 r R^5 - 208 r^3 R^5 + 16 l^2 R^6 - 384 r^2 R^6 - 256 r R^7\right)\big) \Big/ \big((2 r - R)\ (2 r + 3 R)^2 \left(-l^2 + r^2 + 5 r R + 4 R^2\right)^2\big)\Big)\}$$

$$\{X21,\ \text{SCHIFFLER POINT},\ X60,\ \text{ISOGONAL CONJUGATE OF } X(12),$$
$$-\frac{R \left(l^2 + r^2 + 2 r R\right)^2 \left(-4 l^2 r^3 + 4 r^5 - 4 l^2 r^2 R + 24 r^4 R - 3 l^2 r R^2 + 51 r^3 R^2 - l^2 R^3 + 44 r^2 R^3 + 16 r R^4\right)}{(2 r + 3 R)^2 \left(-2 l^2 r + 2 r^3 - l^2 R + 7 r^2 R + 7 r R^2\right)^2}\}$$

$$\{X21,\ \text{SCHIFFLER POINT},\ X61,\ \text{ISOGONAL CONJUGATE OF } X(17),$$
$$-\frac{1}{(2 r + 3 R)^2 \left(3 l^2 + 2 \sqrt{3}\ l r - 3 r^2 - 12 r R\right)^2}$$
$$3 R \left(-6 l^6 r - 4 \sqrt{3}\ l^5 r^2 - 6 l^4 r^3 - 8 \sqrt{3}\ l^3 r^4 + 6 l^2 r^5 - 4 \sqrt{3}\ l r^6 + 6 r^7 - 3 l^6 R + 2 \sqrt{3}\ l^5 r R + 41 l^4 r^2 R + 4 \sqrt{3}\ l^3 r^3 R + 139 l^2 r^4 R - 30 \sqrt{3}\ l r^5 R + 63 r^6 R + 36 l^4 r R^2 + 8 \sqrt{3}\ l^3 r^2 R^2 + 280 l^2 r^3 R^2 - 72 \sqrt{3}\ l r^4 R^2 + 228 r^5 R^2 + 144 l^2 r^2 R^3 - 64 \sqrt{3}\ l r^3 R^3 + 336 r^4 R^3 + 192 r^3 R^4\right)\}$$

$$\{X21,\ \text{SCHIFFLER POINT},\ X62,\ \text{ISOGONAL CONJUGATE OF } X(18),$$
$$-\frac{1}{(2 r + 3 R)^2 \left(3 l^2 - 2 \sqrt{3}\ l r - 3 r^2 - 12 r R\right)^2}$$
$$3 R \left(-6 l^6 r + 4 \sqrt{3}\ l^5 r^2 - 6 l^4 r^3 + 8 \sqrt{3}\ l^3 r^4 + 6 l^2 r^5 + 4 \sqrt{3}\ l r^6 + 6 r^7 - 3 l^6 R - 2 \sqrt{3}\ l^5 r R + 41 l^4 r^2 R - 4 \sqrt{3}\ l^3 r^3 R + 139 l^2 r^4 R + 30 \sqrt{3}\ l r^5 R + 63 r^6 R + 36 l^4 r R^2 - 8 \sqrt{3}\ l^3 r^2 R^2 + 280 l^2 r^3 R^2 + 72 \sqrt{3}\ l r^4 R^2 + 228 r^5 R^2 + 144 l^2 r^2 R^3 + 64 \sqrt{3}\ l r^3 R^3 + 336 r^4 R^3 + 192 r^3 R^4\right)\}$$

$$\left\{\text{X21, SCHIFFLER POINT, X63, ISOGONAL CONJUGATE OF X(19)},\ -\frac{R\,(r+2R)^2\left(-2l^2r+6r^3-l^2R+19r^2R+16rR^2\right)}{(r+R)^2\,(2r+3R)^2}\right\}$$

$$\left\{\text{X21, SCHIFFLER POINT, X64, ISOGONAL CONJUGATE OF X(20)},\ \left(R\left(-2l^6r-2l^4r^3+2l^2r^5+2r^7-5l^6R+47l^4r^2R-43l^2r^4R+49r^6R+172l^4rR^2-472l^2r^3R^2+428r^5R^2+148l^4R^3-1572l^2r^2R^3+1956r^4R^3-2176l^2rR^4+5184r^3R^4-1088l^2R^5+8000r^2R^5+6656rR^6+2304R^7\right)\right)\Big/\left((-l+r+2R)^2\,(l+r+2R)^2\,(2r+3R)^2\right)\right\}$$

$$\left\{\text{X21, SCHIFFLER POINT, X65, ORTHOCENTER OF THE INTOUCH TRIANGLE},\ -\frac{8r^5-2l^2r^2R+34r^4R-5l^2rR^2+53r^3R^2-l^2R^3+40r^2R^3+16rR^4}{R\,(2r+3R)^2}\right\}$$

$$\left\{\text{X21, SCHIFFLER POINT, X66, ISOGONAL CONJUGATE OF X(22)},\ \frac{1}{(-l+r+2R)^2\,(l+r+2R)^2\,(2r+3R)^2\left(-l^2+r^2+4rR\right)^2}\left(-4l^{10}r^2+36l^8r^4-88l^6r^6+88l^4r^8-36l^2r^{10}+4r^{12}-6l^{10}rR+150l^8r^3R-692l^6r^5R+1044l^4r^7R-582l^2r^9R+86r^{11}R-2l^{10}R^2+186l^8r^2R^2-1932l^6r^4R^2+4876l^4r^6R^2-3922l^2r^8R^2+794r^{10}R^2+76l^8rR^3-2352l^6r^3R^3+11400l^4r^5R^3-14256l^2r^7R^3+4108r^9R^3+7l^8R^4-1184l^6r^2R^4+13954l^4r^4R^4-30144l^2r^6R^4+13015r^8R^4-160l^6rR^5+8320l^4r^3R^5-37056l^2r^5R^5+25824r^7R^5+4l^6R^6+1780l^4r^2R^6-24596l^2r^4R^6+31260r^6R^6-48l^4rR^7-7008l^2r^3R^7+20944r^5R^7-240l^2r^2R^8+5696r^4R^8-256r^3R^9\right)\right\}$$

$$\left\{\text{X21, SCHIFFLER POINT, X67, ISOGONAL CONJUGATE OF X(23)},\ \frac{1}{(2r+3R)^2\left(-l^2+r^2+4rR\right)^2\left(-2l^2+2r^2+8rR+9R^2\right)}\left(4l^8r^2-64l^6r^4+120l^4r^6-64l^2r^8+4r^{10}+2l^8rR-192l^6r^3R+828l^4r^5R-704l^2r^7R+66r^9R-2l^8R^2-120l^6r^2R^2+1932l^4r^4R^2-3016l^2r^6R^2+438r^8R^2+26l^6rR^3+1770l^4r^3R^3-6346l^2r^5R^3+1478r^7R^3+9l^6R^4+429l^4r^2R^4-6761l^2r^4R^4+2595r^6R^4-108l^4rR^5-3304l^2r^3R^5+2004r^5R^5-540l^2r^2R^6+16r^4R^6-576r^3R^7\right)\right\}$$

$$\left\{\text{X21, SCHIFFLER POINT, X68, PRASOLOV POINT},\ \frac{1}{(-l+r+2R)^2\,(l+r+2R)^2\,(2r+3R)^2}\left(-4l^6r^2+28l^4r^4-28l^2r^6+4r^8-6l^6rR+106l^4r^3R-218l^2r^5R+54r^7R-2l^6R^2+142l^4r^2R^2-686l^2r^4R^2+306r^6R^2+80l^4rR^3-1072l^2r^3R^3+944r^5R^3+19l^4R^4-842l^2r^2R^4+1715r^4R^4-304l^2rR^5+1840r^3R^5-44l^2R^6+1100r^2R^6+320rR^7+36R^8\right)\right\}$$

$$\left\{\text{X21, SCHIFFLER POINT, X69, SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},\ -\left(\left(4\left(-8l^4r^4+8l^2r^6-l^6rR-17l^4r^3R+49l^2r^5R+r^7R-l^6R^2+2l^4r^2R^2+115l^2r^4R^2+12r^6R^2+12l^4rR^3+128l^2r^3R^3+52r^5R^3+60l^2r^2R^4+96r^4R^4+64r^3R^5\right)\right)\Big/\left((2r+3R)^2\left(-l^2+r^2+4rR\right)^2\right)\right)\right\}$$

$$\left\{\text{X21, SCHIFFLER POINT, X70, ISOGONAL CONJUGATE OF X(26)},\ \left(-4l^{10}r^2+36l^8r^4-88l^6r^6+88l^4r^8-36l^2r^{10}+4r^{12}-6l^{10}rR+150l^8r^3R-692l^6r^5R+1044l^4r^7R-582l^2r^9R+86r^{11}R-2l^{10}R^2+206l^8r^2R^2-2060l^6r^4R^2+5092l^4r^6R^2-4050l^2r^8R^2+814r^{10}R^2+110l^8rR^3-2928l^6r^3R^3+13188l^4r^5R^3-15856l^2r^7R^3+4462r^9R^3+21l^8R^4-2036l^6r^2R^4+19506l^4r^4R^4-38284l^2r^6R^4+15673r^8R^4-642l^6rR^5+16446l^4r^3R^5-58734l^2r^5R^5+36850r^7R^5-82l^6R^6+7446l^4r^2R^6-56862l^2r^4R^6+58810r^6R^6+1606l^4rR^7-33380l^2r^3R^7+63270r^5R^7+147l^4R^8-10970l^2r^2R^8+44723r^4R^8-1764l^2rR^9+19844r^3R^9-116l^2R^{10}+5144r^2R^{10}+680rR^{11}+36R^{12}\right)\Big/\left((2r+3R)^2\left(l^4-2l^2r^2+r^4-8l^2rR+8r^3R-6l^2R^2+22r^2R^2+24rR^3+7R^4\right)^2\right)\right\}$$

$$\{X21, \text{SCHIFFLER POINT}, X71, \text{ISOGONAL CONJUGATE OF } X(27),$$
$$-\left(\left(R\left(2 l^6 r+6 l^4 r^3+6 l^2 r^5+2 r^7+5 l^6 R-9 l^4 r^2 R+79 l^2 r^4 R+29 r^6 R-64 l^4 r R^2+296 l^2 r^3 R^2+168 r^5 R^2-52 l^4 R^3+432 l^2 r^2 R^3+500 r^4 R^3+208 l^2 r R^4+816 r^3 R^4-16 l^2 R^5+704 r^2 R^5+256 r R^6\right)\right)\Big/\left((2 r+3 R)^2\left(l^2+r^2+6 r R+8 R^2\right)^2\right)\right)\}$$

$$\{X21, \text{SCHIFFLER POINT}, X72, \text{ISOGONAL CONJUGATE OF } X(28),$$
$$-\frac{-4 l^2 r^3+4 r^5-10 l^2 r^2 R+34 r^4 R-10 l^2 r R^2+104 r^3 R^2-4 l^2 R^3+135 r^2 R^3+64 r R^4}{R(2 r+3 R)^2}\}$$

$$\{X21, \text{SCHIFFLER POINT}, X73, \text{CROSSPOINT OF INCENTER AND CIRCUMCENTER},$$
$$\left(R\left(2 l^6 r+6 l^4 r^3+6 l^2 r^5+2 r^7+l^6 R-13 l^4 r^2 R-45 l^2 r^4 R+33 r^6 R-36 l^4 r R^2-96 l^2 r^3 R^2+196 r^5 R^2-8 l^4 R^3+88 l^2 r^2 R^3+496 r^4 R^3+176 l^2 r R^4+432 r^3 R^4+16 l^2 R^5-128 r^2 R^5-256 r R^6\right)\right)\Big/\left((2 r+3 R)^2\left(l^2+r^2-2 r R-4 R^2\right)^2\right)\}$$

$$\{X21, \text{SCHIFFLER POINT}, X74, \text{ISOGONAL CONJUGATE OF EULER INFINITY POINT},$$
$$\left(R\left(2 l^4 r+4 l^2 r^3+2 r^5+7 l^4 R-26 l^2 r^2 R+31 r^4 R-116 l^2 r R^2+180 r^3 R^2-108 l^2 R^3+496 r^2 R^3+648 r R^4+324 R^5\right)\right)\Big/\left((2 r+3 R)^2\left(-2 l^2+2 r^2+8 r R+9 R^2\right)\right)\}$$

$$\{X21, \text{SCHIFFLER POINT}, X75, \text{ISOTOMIC CONJUGATE OF INCENTER},$$
$$-\left(\left(4 R\left(-l^6 r+7 l^4 r^3-23 l^2 r^5+r^7-l^6 R+22 l^4 r^2 R-109 l^2 r^4 R+12 r^6 R+20 l^4 r R^2-160 l^2 r^3 R^2+52 r^5 R^2-68 l^2 r^2 R^3+96 r^4 R^3+64 r^3 R^4\right)\right)\Big/\left((2 r+3 R)^2\left(l^2+r^2+4 r R\right)^2\right)\right)\}$$

$$\{X21, \text{SCHIFFLER POINT}, X76, \text{3rd BROCARD POINT},$$
$$-\frac{1}{(2 r+3 R)^2\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)^2}$$
$$4 R\left(-l^{10} r-3 l^8 r^3-2 l^6 r^5+2 l^4 r^7+3 l^2 r^9+r^{11}-l^{10} R+16 l^8 r^2 R+42 l^6 r^4 R-204 l^4 r^6 R+47 l^2 r^8 R+20 r^{10} R+20 l^8 r R^2-8 l^6 r^3 R^2-680 l^4 r^5 R^2+280 l^2 r^7 R^2+164 r^9 R^2-52 l^6 r^2 R^3-680 l^4 r^4 R^3+780 l^2 r^6 R^3+704 r^8 R^3-224 l^4 r^3 R^4+992 l^2 r^5 R^4+1664 r^7 R^4+448 l^2 r^4 R^5+2048 r^6 R^5+1024 r^5 R^6\right)\}$$

$$\{X21, \text{SCHIFFLER POINT}, X77, \text{ISOGONAL CONJUGATE OF } X(33),$$
$$-\left(\left(R\left(-2 l^6 r+2 l^4 r^3-4 l^2 r^5-l^6 R+21 l^4 r^2 R-22 l^2 r^4 R+40 l^4 r R^2-80 l^2 r^3 R^2+4 r^5 R^2+8 l^4 R^3-196 l^2 r^2 R^3+48 r^4 R^3-192 l^2 r R^4+208 r^3 R^4-16 l^2 R^5+384 r^2 R^5+256 r R^6\right)\right)\Big/\left((2 r+3 R)^2\left(-l^2+r R+4 R^2\right)^2\right)\right)\}$$

$$\{X21, \text{SCHIFFLER POINT}, X78, \text{ISOGONAL CONJUGATE OF } X(34),$$
$$-\frac{R\left(-6 l^2 r^3+2 r^5-7 l^2 r^2 R+21 r^4 R-8 l^2 r R^2+76 r^3 R^2-4 l^2 R^3+112 r^2 R^3+64 r R^4\right)}{(r-R)^2(2 r+3 R)^2}\}$$

$$\{X21, \text{SCHIFFLER POINT}, X79, \text{ISOGONAL CONJUGATE OF } X(35),$$
$$\frac{(2 r-R)\left(-6 l^2 r+2 r^3-l^2 R+11 r^2 R+16 r R^2\right)}{(2 r+3 R)^2}\}$$

$$\{X21, \text{SCHIFFLER POINT}, X80, \text{REFLECTION OF INCENTER IN FEUERBACH POINT},$$
$$\frac{(2 r+R)^2\left(-2 l^2 r+6 r^3-l^2 R+19 r^2 R+16 r R^2\right)}{(2 r-R)(2 r+3 R)^2}\}$$

$$\{X21, \text{SCHIFFLER POINT}, X81, \text{CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},$$
$$-\frac{R\left(l^2+r^2+2 r R\right)^2\left(-2 l^2 r+6 r^3-l^2 R+19 r^2 R+16 r R^2\right)}{(2 r+3 R)^2\left(-l^2+r^2+r R\right)^2}\}$$

$$\left\{X21,\ \text{SCHIFFLER POINT},\ X82,\ \text{ISOGONAL CONJUGATE OF } X(38),\right.$$
$$-\frac{1}{(2r+3R)^2\left(l^4-4l^2r^2+3r^4-9l^2rR+19r^3R+28r^2R^2\right)^2}$$
$$R\left(-2l^{10}r+10l^8r^3+12l^6r^5-12l^4r^7-10l^2r^9+2r^{11}-l^{10}R+41l^8r^2R-\right.$$
$$66l^6r^4R-118l^4r^6R+3l^2r^8R+13r^{10}R+28l^8rR^2-308l^6r^3R^2+52l^4r^5R^2+$$
$$244l^2r^7R^2-16r^9R^2-236l^6r^2R^3+840l^4r^4R^3+244l^2r^6R^3-256r^8R^3+$$
$$\left.\left.752l^4r^3R^4-672l^2r^5R^4-496r^7R^4-784l^2r^4R^5-128r^6R^5+256r^5R^6\right)\right\}$$

$$\left\{X21,\ \text{SCHIFFLER POINT},\ X83,\ \text{CEVAPOINT OF CENTROID AND SYMMEDIAN POINT},\right.$$
$$\frac{1}{(2r+3R)^2\left(5l^4-6l^2r^2+5r^4-40l^2rR+40r^3R+80r^2R^2\right)^2}$$
$$4\left(-4l^{10}r^2-12l^8r^4-8l^6r^6+8l^4r^8+12l^2r^{10}+4r^{12}+3l^{10}rR+41l^8r^3R+22l^6r^5R+10l^4r^7R+\right.$$
$$103l^2r^9R+77r^{11}R+l^{10}R^2-24l^8r^2R^2-258l^6r^4R^2+292l^4r^6R^2+105l^2r^8R^2+604r^{10}R^2-$$
$$20l^8rR^3-56l^6r^3R^3+1512l^4r^5R^3-1240l^2r^7R^3+2460r^9R^3+52l^6r^2R^4+1320l^4r^4R^4-3980l^2$$
$$\left.\left.r^6R^4+5440r^8R^4+224l^4r^3R^5-3552l^2r^5R^5+6016r^7R^5-448l^2r^4R^6+2048r^6R^6-1024r^5R^7\right)\right\}$$

$$\left\{X21,\ \text{SCHIFFLER POINT},\ X84,\ \text{ISOGONAL CONJUGATE OF } X(40),\right.$$
$$\left.-\frac{R(r+2R)^2\left(-6l^2r+2r^3+9l^2R+5r^2R-12rR^2-36R^3\right)}{r^2(2r+3R)^2}\right\}$$

$$\left\{X21,\ \text{SCHIFFLER POINT},\ X85,\ \text{ISOTOMIC CONJUGATE OF } X(9),\right.$$
$$-\left(\left(4R\left(-l^6r+23l^4r^3-7l^2r^5+r^7-l^6R+70l^4r^2R-85l^2r^4R+20r^6R+60l^4rR^2-\right.\right.\right.$$
$$\left.\left.\left.376l^2r^3R^2+164r^5R^2+16l^4R^3-724l^2r^2R^3+704r^4R^3-544l^2rR^4+1664r^3R^4-\right.\right.\right.$$
$$\left.\left.\left.64l^2R^5+2048r^2R^5+1024rR^6\right)\right)\Big/\left((2r+3R)^2\left(l^2+r^2+8rR+16R^2\right)^2\right)\right)\Big\}$$

$$\left\{X21,\ \text{SCHIFFLER POINT},\ X86,\ \text{CEVAPOINT OF INCENTER AND CENTROID},\right.$$
$$\left.-\frac{4\left(l^2+r^2+2rR\right)^2\left(4l^2r^2-3l^2rR+r^3R-l^2R^2+8r^2R^2+16rR^3\right)}{(2r+3R)^2\left(5l^2+r^2+4rR\right)^2}\right\}$$

$$\left\{X21,\ \text{SCHIFFLER POINT},\ X87,\ X(2)\text{-CROSS CONJUGATE OF } X(1),\right.$$
$$\frac{1}{(2r+3R)^2\left(l^4+2l^2r^2+r^4-20l^2rR+12r^3R+32r^2R^2\right)^2}$$
$$R\left(2l^{10}r+18l^8r^3+52l^6r^5+68l^4r^7+42l^2r^9+10r^{11}+l^{10}R-55l^8r^2R-\right.$$
$$326l^6r^4R-382l^4r^6R-11l^2r^8R+101r^{10}R-32l^8rR^2+304l^6r^3R^2+848l^4r^5R^2+$$
$$656l^2r^7R^2+144r^9R^2+288l^6r^2R^3+1568l^4r^4R^3-288l^2r^6R^3-1568r^8R^3-$$
$$\left.\left.256l^4r^3R^4-4864l^2r^5R^4-6656r^7R^4-3840l^2r^4R^5-8960r^6R^5-4096r^5R^6\right)\right\}$$

$$\left\{X21,\ \text{SCHIFFLER POINT},\ X88,\ \text{ISOGONAL CONJUGATE OF } X(44),\right.$$
$$-\left(\left(R\left(-2l^6r-6l^4r^3-6l^2r^5+126r^7-l^6R+61l^4r^2R+93l^2r^4R+351r^6R+28l^4rR^2-480l^2r^3R^2+\right.\right.\right.$$
$$\left.\left.\left.36r^5R^2-228l^2r^2R^3-180r^4R^3+576r^3R^4\right)\right)\Big/\left((2r+3R)^2\left(l^2+3r^2-15rR\right)^2\right)\right)\Big\}$$

$$\left\{X21,\ \text{SCHIFFLER POINT},\ X89,\ \text{ISOGONAL CONJUGATE OF } X(45),\right.$$
$$-\left(\left(4R\left(-2l^6r+42l^2r^5+72r^7-l^6R-14l^4r^2R+159l^2r^4R+432r^6R+4l^4rR^2+192l^2r^3R^2+\right.\right.\right.$$
$$\left.\left.\left.1008r^5R^2+156l^2r^2R^3+1143r^4R^3+576r^3R^4\right)\right)\Big/\left((2r+3R)^2\left(-2l^2+6r^2-3rR\right)^2\right)\right)\Big\}$$

$$\left\{X21,\ \text{SCHIFFLER POINT},\ X90,\ X(3)\text{-CROSS CONJUGATE OF } X(1),\right.$$
$$\left.-\frac{R(r+R)^2\left(-6l^2r^3+2r^5+l^2r^2R+13r^4R-2l^2rR^2+26r^3R^2-l^2R^3+19r^2R^3+16rR^4\right)}{(2r+3R)^2\left(r^2+2rR-R^2\right)^2}\right\}$$

$$\left\{X21,\ \text{SCHIFFLER POINT},\ X91,\ \text{ISOGONAL CONJUGATE OF } X(47),\right.$$
$$-\frac{1}{(2r+3R)^2\left(l^2 r+r^3-l^2 R+3r^2 R+2rR^2+2R^3\right)^2}$$
$$R\left(-8l^6r^3+32l^4r^5-72l^2r^7+16r^9-10l^6r^2R+158l^4r^4R-470l^2r^6R+\right.$$
$$194r^8R-6l^6rR^2+270l^4r^3R^2-1282l^2r^5R^2+970r^7R^2-l^6R^3+173l^4r^2R^3-$$
$$1883l^2r^4R^3+2599r^6R^3+48l^4rR^4-1536l^2r^3R^4+4080r^5R^4+4l^4R^5-$$
$$\left.\left.616l^2r^2R^5+3844r^4R^5-104l^2rR^6+2104r^3R^6-4l^2R^7+588r^2R^7+64rR^8\right)\right\}$$

$$\left\{X21,\ \text{SCHIFFLER POINT},\ X92,\ \text{CEVAPOINT OF INCENTER AND CLAWSON POINT},\right.$$
$$-\left(\left(4R\left(-l^6r+11l^4r^3-15l^2r^5+5r^7-l^6R+36l^4r^2R-113l^2r^4R+58r^6R+\right.\right.\right.$$
$$36l^4rR^2-312l^2r^3R^2+284r^5R^2+8l^4R^3-384l^2r^2R^3+740r^4R^3-192l^2rR^4+$$
$$\left.\left.\left.1072r^3R^4-16l^2R^5+816r^2R^5+256rR^6\right)\right)\Big/\left((2r+3R)^2\left(l^2+r^2-4R^2\right)^2\right)\right)\right\}$$

$$\left\{X21,\ \text{SCHIFFLER POINT},\ X93,\ \text{ISOGONAL CONJUGATE OF } X(49),\right.$$
$$-\left(\left(4R\left(-l^{10}r-3l^8r^3-2l^6r^5+2l^4r^7+3l^2r^9+r^{11}-l^{10}R+12l^8r^2R+74l^6r^4R-132l^4r^6R+79l^2r^8\right.\right.\right.$$
$$R+16r^{10}R+24l^8rR^2+136l^6r^3R^2-848l^4r^5R^2+680l^2r^7R^2+104r^9R^2+7l^8R^3-14l^6r^2R^3-$$
$$2016l^4r^4R^3+2886l^2r^6R^3+337r^8R^3-91l^6rR^4-2083l^4r^3R^4+6859l^2r^5R^4+467r^7R^4-$$
$$9l^6R^5-791l^4r^2R^5+9421l^2r^4R^5-325r^6R^5-14l^4rR^6+7180l^2r^3R^6-2318r^5R^6-17l^4R^7+$$
$$\left.\left.\left.2632l^2r^2R^7-3823r^4R^7+306l^2rR^8-3082r^3R^8+20l^2R^9-1197r^2R^9-170rR^{10}-9R^{11}\right)\right)\Big/$$
$$\left.\left.\left((2r+3R)^2\left(l^4+2l^2r^2+r^4-8l^2rR+8r^3R-8l^2R^2+24r^2R^2+32rR^3+13R^4\right)^2\right)\right)\right\}$$

$$\left\{X21,\ \text{SCHIFFLER POINT},\ X94,\ \text{ISOGONAL CONJUGATE OF } X(50),\right.$$
$$-\left(\left(4R\left(-l^{10}r-3l^8r^3-2l^6r^5+2l^4r^7+3l^2r^9+r^{11}-l^{10}R+10l^8r^2R+66l^6r^4R-144l^4r^6R+\right.\right.\right.$$
$$71l^2r^8R+14r^{10}R+23l^8rR^2+148l^6r^3R^2-854l^4r^5R^2+628l^2r^7R^2+71r^9R^2+$$
$$6l^8R^3+14l^6r^2R^3-1934l^4r^4R^3+2706l^2r^6R^3+104r^8R^3-87l^6rR^4-1919l^4r^3R^4+$$
$$6311l^2r^5R^4-433r^7R^4-9l^6R^5-621l^4r^2R^5+8209l^2r^4R^5-2347r^6R^5+81l^4rR^6+$$
$$\left.\left.\left.5610l^2r^3R^6-4895r^5R^6+1566l^2r^2R^7-5394r^4R^7-3096r^3R^8-729r^2R^9\right)\right)\Big/$$
$$\left.\left.\left((2r+3R)^2\left(l^4+2l^2r^2+r^4-8l^2rR+8r^3R-12l^2R^2+28r^2R^2+48rR^3+27R^4\right)^2\right)\right)\right\}$$

$$\left\{X21,\ \text{SCHIFFLER POINT},\ X95,\ \text{CEVAPOINT OF CENTROID AND CIRCUMCENTER},\right.$$
$$-\left(\left(4R\left(-l^{10}r-19l^8r^3-18l^6r^5+18l^4r^7+19l^2r^9+r^{11}-l^{10}R+8l^8r^2R+386l^6r^4R-\right.\right.\right.$$
$$388l^4r^6R+279l^2r^8R+20r^{10}R+28l^8rR^2+280l^6r^3R^2-2040l^4r^5R^2+1592l^2r^7R^2+$$
$$172r^9R^2+8l^8R^3-92l^6r^2R^3-3280l^4r^4R^3+4628l^2r^6R^3+832r^8R^3-144l^6rR^4-$$
$$1584l^4r^3R^4+7440l^2r^5R^4+2480r^7R^4-16l^6R^5-64l^4r^2R^5+6736l^2r^4R^5+4672r^6R^5+$$
$$\left.\left.\left.192l^4rR^6+3456l^2r^3R^6+5440r^5R^6+960l^2r^2R^7+3584r^4R^7+1024r^3R^8\right)\right)\Big/$$
$$\left.\left.\left((2r+3R)^2\left(l^4+18l^2r^2+r^4-8l^2rR+8r^3R-4l^2R^2+20r^2R^2+16rR^3\right)^2\right)\right)\right\}$$

$$\left\{X21,\ \text{SCHIFFLER POINT},\ X96,\ \text{ISOGONAL CONJUGATE OF } X(52),\right.$$
$$\frac{1}{(2r+3R)^2\left(l^4-14l^2r^2+r^4-8l^2rR+8r^3R+16r^2R^2-4R^4\right)^2}$$
$$4R\left(-l^{10}r+13l^8r^3+14l^6r^5-14l^4r^7-13l^2r^9+r^{11}-2l^{10}R+59l^8r^2R-312l^6r^4R+\right.$$
$$370l^4r^6R-254l^2r^8R+27r^{10}R+64l^8rR^2-936l^6r^3R^2+2464l^4r^5R^2-1992l^2r^7R^2+$$
$$304r^9R^2+27l^8R^3-1080l^6r^2R^3+6370l^4r^4R^3-8104l^2r^6R^3+1891r^8R^3-580l^6rR^4+$$
$$8124l^4r^3R^4-18\,844l^2r^5R^4+7204r^7R^4-128l^6R^5+5512l^4r^2R^5-26\,240l^2r^4R^5+$$
$$17\,560r^6R^5+1944l^4rR^6-21\,936l^2r^3R^6+27\,800r^5R^6+288l^4R^7-10\,736l^2r^2R^7+$$
$$\left.\left.28\,480r^4R^7-2848l^2rR^8+18\,464r^3R^8-320l^2R^9+7248r^2R^9+1568rR^{10}+144R^{11}\right)\right\}$$

$$\left\{X21,\ \text{SCHIFFLER POINT},\ X97,\ \text{ISOGONAL CONJUGATE OF } X(53),\right.$$
$$-\left(\left(R\left(-2l^{10}r+10l^8r^3+12l^6r^5-12l^4r^7-10l^2r^9+2r^{11}-l^{10}R+21l^8r^2R+22l^6r^4R-\right.\right.\right.$$
$$118l^4r^6R-85l^2r^8R+33r^{10}R+38l^8rR^2-80l^6r^3R^2-428l^4r^5R^2-208l^2r^7R^2+$$
$$230r^9R^2+8l^8R^3-164l^6r^2R^3-760l^4r^4R^3+220l^2r^6R^3+872r^8R^3-176l^6rR^4-$$
$$640l^4r^3R^4+2112l^2r^5R^4+1904r^7R^4-16l^6R^5-84l^4r^2R^5+4408l^2r^4R^5+2220r^6R^5+$$
$$\left.\left.\left.224l^4rR^6+4128l^2r^3R^6+704r^5R^6+1504l^2r^2R^7-1376r^4R^7-1664r^3R^8-576r^2R^9\right)\right)\Big/$$
$$\left.\left.\left((2r+3R)^2\left(l^4-6l^2r^2+r^4-8l^2rR+8r^3R-7l^2R^2+23r^2R^2+28rR^3+12R^4\right)^2\right)\right)\right\}$$

$$\{X21,\ \text{SCHIFFLER POINT},\ X98,\ \text{TarryPoint},\ \left(4 R \left(-l^6 r - l^4 r^3 + l^2 r^5 + r^7 - 2 l^6 R + 19 l^4 r^2 R - 28 l^2 r^4 R + 15 r^6 R + 30 l^4 r R^2 - 116 l^2 r^3 R^2 + 86 r^5 R^2 + 9 l^4 R^3 - 162 l^2 r^2 R^3 + 233 r^4 R^3 - 72 l^2 r R^4 + 296 r^3 R^4 + 144 r^2 R^5\right)\right) / \left((2 r + 3 R)^2 \left(l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\right)\right)\}$$

$$\left\{X21,\ \text{SCHIFFLER POINT},\ X99,\ \text{STEINER POINT},\ -\frac{4 R \left(l^2 + r^2 + 2 r R\right)^2 \left(-l^2 r + r^3 - l^2 R + 8 r^2 R + 16 r R^2\right)}{(2 r + 3 R)^2 \left(l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\right)}\right\}$$

$$\left\{X21,\ \text{SCHIFFLER POINT},\ X100,\ \text{ANTICOMPLEMENT OF FEUERBACH POINT},\ \frac{4 R^2 \left(-2 l^2 r + 6 r^3 - l^2 R + 19 r^2 R + 16 r R^2\right)}{(2 r - R)\ (2 r + 3 R)^2}\right\}$$

$$\left\{X22,\ \text{ExeterPoint},\ X23,\ \text{FarOutPoint},\ -\frac{R^4 \left(l^2 - r^2 - 4 r R\right)^2}{\left(2 l^2 - 2 r^2 - 8 r R - 9 R^2\right) \left(l^2 - r^2 - 4 r R - 3 R^2\right)^2}\right\}$$

$$\left\{X22,\ \text{ExeterPoint},\ X24,\ \text{PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE},\ -\frac{4 R^8 \left(2 l^2 - 2 r^2 - 8 r R - 9 R^2\right)}{\left(l^2 - r^2 - 4 r R - 5 R^2\right)^2 \left(l^2 - r^2 - 4 r R - 3 R^2\right)^2}\right\}$$

$$\left\{X22,\ \text{ExeterPoint},\ X25,\ \text{HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES},\ -\frac{R^4 \left(l^2 - r^2 - 4 r R\right)^2 \left(2 l^2 - 2 r^2 - 8 r R - 9 R^2\right)}{\left(l^2 - r^2 - 4 r R - 6 R^2\right)^2 \left(l^2 - r^2 - 4 r R - 3 R^2\right)^2}\right\}$$

$$\left\{X22,\ \text{ExeterPoint},\ X26,\ \text{CIRCUMCENTER OF THE TANGENTIAL TRIANGLE},\ -\frac{R^8 \left(2 l^2 - 2 r^2 - 8 r R - 9 R^2\right)}{(l - r - 2 R)^2 (l + r + 2 R)^2 \left(l^2 - r^2 - 4 r R - 3 R^2\right)^2}\right\}$$

$$\left\{X22,\ \text{ExeterPoint},\ X27,\ \text{CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER},\ -\frac{\left(2 l^2 - 2 r^2 - 8 r R - 9 R^2\right) \left(l^4 - r^4 - 8 r^3 R - 20 r^2 R^2 - 16 r R^3\right)^2}{\left(l^2 - 3 r^2 - 12 r R - 12 R^2\right)^2 \left(l^2 - r^2 - 4 r R - 3 R^2\right)^2}\right\}$$

$$\left\{X22,\ \text{ExeterPoint},\ X28,\ \text{CEVAPOINT OF X(19) AND X(25)},\ -\frac{R^2 \left(2 l^2 - 2 r^2 - 8 r R - 9 R^2\right) \left(l^2 r - r^3 + l^2 R - 5 r^2 R - 6 r R^2\right)^2}{\left(l^2 - r^2 - 5 r R - 6 R^2\right)^2 \left(l^2 - r^2 - 4 r R - 3 R^2\right)^2}\right\}$$

$$\left\{X22,\ \text{ExeterPoint},\ X29,\ \text{CEVAPOINT OF INCENTER AND ORTHOCENTER},\ -\frac{\left(2 l^2 - 2 r^2 - 8 r R - 9 R^2\right) \left(l^4 - r^4 - 4 l^2 r R - 4 r^3 R - 4 l^2 R^2 + 8 r R^3\right)^2}{\left(3 l^2 - r^2 - 8 r R - 12 R^2\right)^2 \left(l^2 - r^2 - 4 r R - 3 R^2\right)^2}\right\}$$

$$\{X22,\ \text{ExeterPoint},\ X30,\ \text{EulerInfinityPoint},\ \infty\}$$

$$\{X22,\ \text{ExeterPoint},\ X31,\ \text{SecondPowerPoint},\ -\left(\left(R^2 \left(10 l^6 r^2 - 30 l^4 r^4 + 22 l^2 r^6 - 2 r^8 - 88 l^4 r^3 R + 144 l^2 r^5 R - 24 r^7 R - l^6 R^2 - 51 l^4 r^2 R^2 + 309 l^2 r^4 R^2 - 105 r^6 R^2 + 16 l^4 r R^3 + 232 l^2 r^3 R^3 - 200 r^5 R^3 - 144 r^4 R^4\right)\right) / \left(\left(l^2 - 3 r^2 - 6 r R\right)^2 \left(l^2 - r^2 - 4 r R - 3 R^2\right)^2\right)\right)\}$$

$$\{X22,\ \text{ExeterPoint},\ X32,\ \text{ThirdPowerPoint},\ -\left(\left(R^2 \left(12 l^{10} r^2 - 64 l^8 r^4 + 104 l^6 r^6 - 64 l^4 r^8 + 12 l^2 r^{10} - 192 l^8 r^3 R + 704 l^6 r^5 R - 704 l^4 r^7 R + 192 l^2 r^9 R - l^{10} R^2 - 59 l^8 r^2 R^2 + 1414 l^6 r^4 R^2 - 2822 l^4 r^6 R^2 + 1211 l^2 r^8 R^2 + r^{10} R^2 + 20 l^8 r R^3 + 688 l^6 r^3 R^3 - 4808 l^4 r^5 R^3 + 3760 l^2 r^7 R^3 + 20 r^9 R^3 - 52 l^6 r^2 R^4 - 2952 l^4 r^4 R^4 + 5772 l^2 r^6 R^4 + 160 r^8 R^4 - 224 l^4 r^3 R^5 + 3680 l^2 r^5 R^5 + 640 r^7 R^5 + 448 l^2 r^4 R^6 + 1280 r^6 R^6 + 1024 r^5 R^7\right)\right) / \left(\left(l^2 - 2 l r - r^2 - 4 r R\right)^2 \left(l^2 + 2 l r - r^2 - 4 r R\right)^2 \left(l^2 - r^2 - 4 r R - 3 R^2\right)^2\right)\right)\}$$

$$\left\{X22,\ \text{ExeterPoint},\ X33,\ \text{PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES},\right.$$
$$-\frac{1}{\left(l^2-r^2-2\,r\,R-4\,R^2\right)^2\left(l^2-r^2-4\,r\,R-3\,R^2\right)^2}$$
$$R\left(4\,l^8\,r-12\,l^6\,r^3+12\,l^4\,r^5-4\,l^2\,r^7-50\,l^6\,r^2\,R+102\,l^4\,r^4\,R-54\,l^2\,r^6\,R+2\,r^8\,R-48\,l^6\,r\,R^2+324\,l^4\,r^3\,R^2-312\,l^2\,r^5\,R^2+36\,r^7\,R^2-l^6\,R^3+453\,l^4\,r^2\,R^3-967\,l^2\,r^4\,R^3+259\,r^6\,R^3+212\,l^4\,r\,R^4-1616\,l^2\,r^3\,R^4+956\,r^5\,R^4+8\,l^4\,R^5-1304\,l^2\,r^2\,R^5+1936\,r^4\,R^5-400\,l^2\,r\,R^6+2128\,r^3\,R^6-16\,l^2\,R^7+1152\,r^2\,R^7+256\,r\,R^8\right)\Big\}$$

$$\left\{X22,\ \text{ExeterPoint},\ X34,\ X(4)\text{-BETH CONJUGATE OF } X(4),\ \frac{1}{\left(l^2-r^2-6\,r\,R-4\,R^2\right)^2\left(l^2-r^2-4\,r\,R-3\,R^2\right)^2}\right.$$
$$R\left(4\,l^6\,r^3-12\,l^4\,r^5+12\,l^2\,r^7-4\,r^9-6\,l^6\,r^2\,R-30\,l^4\,r^4\,R+78\,l^2\,r^6\,R-42\,r^8\,R+4\,l^6\,r\,R^2+24\,l^4\,r^3\,R^2+132\,l^2\,r^5\,R^2-160\,r^7\,R^2+l^6\,R^3+3\,l^4\,r^2\,R^3-9\,l^2\,r^4\,R^3-251\,r^6\,R^3-60\,l^4\,r\,R^4-16\,l^2\,r^3\,R^4-116\,r^5\,R^4-8\,l^4\,R^5+296\,l^2\,r^2\,R^5-96\,r^4\,R^5+240\,l^2\,r\,R^6-560\,r^3\,R^6+16\,l^2\,R^7-704\,r^2\,R^7-256\,r\,R^8\right)\Big\}$$

$$\left\{X22,\ \text{ExeterPoint},\ X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),\right.$$
$$-\frac{R^3\left(4\,l^4\,r-4\,l^2\,r^3-18\,l^2\,r^2\,R+2\,r^4\,R-20\,l^2\,r\,R^2+16\,r^3\,R^2-l^2\,R^3+27\,r^2\,R^3+16\,r\,R^4\right)}{(2\,r+R)^2\left(-l^2+r^2+4\,r\,R+3\,R^2\right)^2}\Big\}$$

$$\left\{X22,\ \text{ExeterPoint},\ X36,\ \text{INVERSE-IN-CIRCUMCIRCLE OF INCENTER},\right.$$
$$-\frac{R^3\left(-2\,l^2\,r^2+2\,r^4+2\,l^2\,r\,R+6\,r^3\,R+l^2\,R^2-3\,r^2\,R^2-16\,r\,R^3\right)}{(2\,r-R)\left(-l^2+r^2+4\,r\,R+3\,R^2\right)^2}\Big\}$$

$$\left\{X22,\ \text{ExeterPoint},\ X37,\ \text{CrosspointOfIncenterAndCentroid},\right.$$
$$-\left(\left(R\left(4\,l^8\,r-12\,l^6\,r^3+12\,l^4\,r^5-4\,l^2\,r^7-36\,l^6\,r^2\,R+72\,l^4\,r^4\,R-36\,l^2\,r^6\,R-20\,l^6\,r\,R^2+144\,l^4\,r^3\,R^2-124\,l^2\,r^5\,R^2-l^6\,R^3+119\,l^4\,r^2\,R^3-215\,l^2\,r^4\,R^3+r^6\,R^3+20\,l^4\,r\,R^4-200\,l^2\,r^3\,R^4+12\,r^5\,R^4-68\,l^2\,r^2\,R^5+48\,r^4\,R^5+64\,r^3\,R^6\right)\right)\Big/\left(\left(l^2+r^2+4\,r\,R\right)^2\left(l^2-r^2-4\,r\,R-3\,R^2\right)^2\right)\right)\Big\}$$

$$\left\{X22,\ \text{ExeterPoint},\ X38,\ \text{CROSSPOINT OF } X(1)\ \text{AND } X(75),\ -\frac{1}{\left(l^2+r^2-2\,r\,R\right)^2\left(l^2-r^2-4\,r\,R-3\,R^2\right)^2}\right.$$
$$R\left(4\,l^8\,r-24\,l^6\,r^3+48\,l^4\,r^5-40\,l^2\,r^7+12\,r^9-70\,l^6\,r^2\,R+306\,l^4\,r^4\,R-410\,l^2\,r^6\,R+174\,r^8\,R-20\,l^6\,r\,R^2+588\,l^4\,r^3\,R^2-1532\,l^2\,r^5\,R^2+996\,r^7\,R^2-l^6\,R^3+293\,l^4\,r^2\,R^3-2491\,l^2\,r^4\,R^3+2863\,r^6\,R^3+32\,l^4\,r\,R^4-1640\,l^2\,r^3\,R^4+4344\,r^5\,R^4-320\,l^2\,r^2\,R^5+3312\,r^4\,R^5+1024\,r^3\,R^6\right)\Big\}$$

$$\left\{X22,\ \text{ExeterPoint},\ X39,\ \text{BrocardMidpoint},\right.$$
$$-\left(\left(R^2\left(20\,l^{10}\,r^2-64\,l^8\,r^4+88\,l^6\,r^6-64\,l^4\,r^8+20\,l^2\,r^{10}-320\,l^8\,r^3\,R+832\,l^6\,r^5\,R-832\,l^4\,r^7\,R+320\,l^2\,r^9\,R-l^{10}\,R^2-99\,l^8\,r^2\,R^2+2206\,l^6\,r^4\,R^2-3870\,l^4\,r^6\,R^2+2019\,l^2\,r^8\,R^2+r^{10}\,R^2+20\,l^8\,r\,R^3+1168\,l^6\,r^3\,R^3-7432\,l^4\,r^5\,R^3+6288\,l^2\,r^7\,R^3+20\,r^9\,R^3-52\,l^6\,r^2\,R^4-4872\,l^4\,r^4\,R^4+9740\,l^2\,r^6\,R^4+160\,r^8\,R^4-224\,l^4\,r^3\,R^5+6240\,l^2\,r^5\,R^5+640\,r^7\,R^5+448\,l^2\,r^4\,R^6+1280\,r^6\,R^6+1024\,r^5\,R^7\right)\right)\Big/\left(\left(l^2-r^2-4\,r\,R-3\,R^2\right)^2\left(l^4+2\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R+16\,r^2\,R^2\right)^2\right)\right)\Big\}$$

$$\left\{X22,\ \text{ExeterPoint},\ X40,\ \text{BEVAN POINT},\right.$$
$$-\frac{1}{\left(l^2-r^2-4\,r\,R-3\,R^2\right)^2}R\left(2\,l^4\,r-4\,l^2\,r^3+2\,r^5-2\,l^4\,R-14\,l^2\,r^2\,R+16\,r^4\,R+2\,l^2\,r\,R^2+38\,r^3\,R^2+17\,l^2\,R^3+13\,r^2\,R^3-44\,r\,R^4-36\,R^5\right)\Big\}$$

$$\left\{X22,\ \text{ExeterPoint},\ X41,\ X(6)\text{-CEVA CONJUGATE OF } X(31),\right.$$
$$\frac{1}{\left(l^2-r^2-4\,r\,R-3\,R^2\right)^2\left(3\,l^2\,r-r^3+2\,l^2\,R-8\,r^2\,R-16\,r\,R^2\right)^2}$$
$$R^2\left(2\,l^8\,r^2-22\,l^6\,r^4+30\,l^4\,r^6-10\,l^2\,r^8+4\,l^8\,r\,R-116\,l^6\,r^3\,R+300\,l^4\,r^5\,R-156\,l^2\,r^7\,R-161\,l^6\,r^2\,R^2+1077\,l^4\,r^4\,R^2-955\,l^2\,r^6\,R^2-r^8\,R^2-16\,l^6\,r\,R^3+1556\,l^4\,r^3\,R^3-2864\,l^2\,r^5\,R^3-20\,r^7\,R^3+4\,l^6\,R^4+648\,l^4\,r^2\,R^4-4236\,l^2\,r^4\,R^4-160\,r^6\,R^4-32\,l^4\,r\,R^5-2656\,l^2\,r^3\,R^5-640\,r^5\,R^5-448\,l^2\,r^2\,R^6-1280\,r^4\,R^6-1024\,r^3\,R^7\right)\Big\}$$

$$\{X22, \text{ExeterPoint}, X42, \text{CROSSPOINT OF INCENTER AND SYMMEDIAN POINT},$$
$$-\left(\left(R^2\left(22 l^6 r^2-34 l^4 r^4+10 l^2 r^6+2 r^8-144 l^4 r^3 R+80 l^2 r^5 R+32 r^7 R-l^6 R^2-111 l^4 r^2 R^2+221 l^2 r^4 R^2+187 r^6 R^2+8 l^4 r R^3+272 l^2 r^3 R^3+488 r^5 R^3+112 l^2 r^2 R^4+560 r^4 R^4+256 r^3 R^5\right)\right)\Big/\left(\left(l^2+r^2-2 r R\right)^2\left(l^2-r^2-4 r R-3 R^2\right)^2\right)\right)\}$$

$$\{X22, \text{ExeterPoint}, X43, X(6)\text{-CEVA CONJUGATE OF } X(1),$$
$$\left(R\left(2 l^8 r-4 l^4 r^5+2 r^9-58 l^6 r^2 R+86 l^4 r^4 R-70 l^2 r^6 R+42 r^8 R-10 l^6 r R^2+414 l^4 r^3 R^2-550 l^2 r^5 R^2+306 r^7 R^2+l^6 R^3+247 l^4 r^2 R^3-1317 l^2 r^4 R^3+997 r^6 R^3-8 l^4 r R^4-976 l^2 r^3 R^4+1464 r^5 R^4-112 l^2 r^2 R^5+720 r^4 R^5-256 r^3 R^6\right)\right)\Big/\left(\left(l^2+r^2-8 r R\right)^2\left(l^2-r^2-4 r R-3 R^2\right)^2\right)\}$$

$$\{X22, \text{ExeterPoint}, X44, X(6)\text{-LINE CONJUGATE OF } X(1),$$
$$\left(R\left(4 l^8 r+4 l^6 r^3-20 l^4 r^5+12 l^2 r^7-100 l^6 r^2 R+88 l^4 r^4 R+12 l^2 r^6 R-20 l^6 r R^2+608 l^4 r^3 R^2-396 l^2 r^5 R^2+l^6 R^3+409 l^4 r^2 R^3-1377 l^2 r^4 R^3-9 r^6 R^3-4 l^4 r R^4-1272 l^2 r^3 R^4-108 r^5 R^4-156 l^2 r^2 R^5-432 r^4 R^5-576 r^3 R^6\right)\right)\Big/\left(\left(l^2-3 r^2-12 r R\right)^2\left(l^2-r^2-4 r R-3 R^2\right)^2\right)\}$$

$$\{X22, \text{ExeterPoint}, X45, X(9)\text{-BETH CONJUGATE OF } X(1),$$
$$-\left(\left(R\left(8 l^8 r-40 l^6 r^3+56 l^4 r^5-24 l^2 r^7-56 l^6 r^2 R+224 l^4 r^4 R-168 l^2 r^6 R-40 l^6 r R^2+208 l^4 r^3 R^2-360 l^2 r^5 R^2-l^6 R^3+191 l^4 r^2 R^3-279 l^2 r^4 R^3+9 r^6 R^3+28 l^4 r R^4-264 l^2 r^3 R^4+108 r^5 R^4-228 l^2 r^2 R^5+432 r^4 R^5+576 r^3 R^6\right)\right)\Big/\left(\left(l^2+3 r^2+12 r R\right)^2\left(l^2-r^2-4 r R-3 R^2\right)^2\right)\right)\}$$

$$\{X22, \text{ExeterPoint}, X46, X(4)\text{-CEVA CONJUGATE OF } X(1),$$
$$-\left(\left(R\left(2 l^4 r^3-4 l^2 r^5+2 r^7+2 l^4 r^2 R-22 l^2 r^4 R+20 r^6 R-30 l^2 r^3 R^2+70 r^5 R^2-5 l^2 r^2 R^3+99 r^4 R^3-2 l^2 r R^4+46 r^3 R^4-l^2 R^5+3 r^2 R^5+16 r R^6\right)\right)\Big/\left((r-R)^2\left(-l^2+r^2+4 r R+3 R^2\right)^2\right)\right)\}$$

$$\{X22, \text{ExeterPoint}, X47, X(110)\text{-BETH CONJUGATE OF } X(34),$$
$$-\left(\left(R^2\left(10 l^6 r^2-30 l^4 r^4+22 l^2 r^6-2 r^8-4 l^6 r R-84 l^4 r^3 R+148 l^2 r^5 R-28 r^7 R-l^6 R^2-27 l^4 r^2 R^2+325 l^2 r^4 R^2-145 r^6 R^2+44 l^4 r R^3+216 l^2 r^3 R^3-340 r^5 R^3+4 l^4 R^4-96 l^2 r^2 R^4-340 r^4 R^4-104 l^2 r R^5-40 r^3 R^5-4 l^2 R^6+140 r^2 R^6+64 r R^7\right)\right)\Big/\left(\left(l^2-r^2-4 r R-3 R^2\right)^2\left(l^2-3 r^2-6 r R-2 R^2\right)^2\right)\right)\}$$

$$\{X22, \text{ExeterPoint}, X48, \text{CROSSPOINT OF } X(1) \text{ AND } X(63),$$
$$\left(R^2\left(2 l^8-22 l^6 r^2+30 l^4 r^4-10 l^2 r^6-40 l^6 r R+176 l^4 r^3 R-104 l^2 r^5 R-9 l^6 R^2+309 l^4 r^2 R^2-403 l^2 r^4 R^2-r^6 R^2+152 l^4 r R^3-696 l^2 r^3 R^3-16 r^5 R^3+4 l^4 R^4-464 l^2 r^2 R^4-100 r^4 R^4-16 l^2 r R^5-304 r^3 R^5+16 l^2 R^6-448 r^2 R^6-256 r R^7\right)\right)\Big/\left(\left(3 l^2-r^2-6 r R-8 R^2\right)^2\left(l^2-r^2-4 r R-3 R^2\right)^2\right)\}$$

$$\{X22, \text{ExeterPoint}, X49, \text{CENTER OF SINE-TRIPLE-ANGLE CIRCLE},$$
$$\left(R^2\left(l^8-16 l^6 r^2+30 l^4 r^4-16 l^2 r^6+r^8-16 l^6 r R+144 l^4 r^3 R-144 l^2 r^5 R+16 r^7 R-5 l^6 R^2+187 l^4 r^2 R^2-475 l^2 r^4 R^2+101 r^6 R^2+60 l^4 r R^3-680 l^2 r^3 R^3+316 r^5 R^3-360 l^2 r^2 R^4+496 r^4 R^4+320 r^3 R^5+16 l^2 R^6-16 r^2 R^6-64 r R^7+9 R^8\right)\right)\Big/\left(\left(2 l^2-2 r^2-8 r R-7 R^2\right)^2\left(l^2-r^2-4 r R-3 R^2\right)^2\right)\}$$

$$\{X22, \text{ExeterPoint}, X50, X(74)\text{-CEVA CONJUGATE OF } X(184),$$
$$-\left(\left(R^2\left(12 l^{10} r^2-64 l^8 r^4+104 l^6 r^6-64 l^4 r^8+12 l^2 r^{10}-192 l^8 r^3 R+704 l^6 r^5 R-704 l^4 r^7 R+192 l^2 r^9 R-l^{10} R^2-143 l^8 r^2 R^2+1714 l^6 r^4 R^2-3122 l^4 r^6 R^2+1295 l^2 r^8 R^2+r^{10} R^2+20 l^8 r R^3+1696 l^6 r^3 R^3-7016 l^4 r^5 R^3+4768 l^2 r^7 R^3+20 r^9 R^3+6 l^8 R^4+512 l^6 r^2 R^4-8268 l^4 r^4 R^4+10\,368 l^2 r^6 R^4+166 r^8 R^4-96 l^6 r R^5-4640 l^4 r^3 R^5+13\,472 l^2 r^5 R^5+736 r^7 R^5-9 l^6 R^6-801 l^4 r^2 R^6+10\,081 l^2 r^4 R^6+1865 r^6 R^6+108 l^4 r R^7+3864 l^2 r^3 R^7+2668 r^5 R^7+540 l^2 r^2 R^8+1968 r^4 R^8+576 r^3 R^9\right)\right)\Big/\left(\left(l^2-r^2-4 r R-3 R^2\right)^2\left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-3 l^2 R^2+19 r^2 R^2+12 r R^3\right)^2\right)\right)\}$$

$$\{X22, \text{ExeterPoint}, X51, \text{CENTROID OF ORTHIC TRIANGLE},$$
$$\left(-l^8-16 l^6 r^2+34 l^4 r^4-16 l^2 r^6-r^8+16 l^6 r R+112 l^4 r^3 R-112 l^2 r^5 R-16 r^7 R+4 l^6 R^2-12 l^4 r^2 R^2-212 l^2 r^4 R^2-100 r^6 R^2-48 l^4 r R^3-32 l^2 r^3 R^3-304 r^5 R^3+9 l^4 R^4+66 l^2 r^2 R^4-439 r^4 R^4-72 l^2 r R^5-184 r^3 R^5+144 r^2 R^6\right)\Big/\left(36 R^2\left(-l^2+r^2+4 r R+3 R^2\right)^2\right)\}$$

$$\left\{X22,\ ExeterPoint,\ X52,\ ORTHOCENTER\ OF\ ORTHIC\ TRIANGLE,\ \frac{1}{4R^2\left(-l^2+r^2+4rR+3R^2\right)^2}\right.$$
$$\left(l^8-16l^6r^2+30l^4r^4-16l^2r^6+r^8-16l^6rR+144l^4r^3R-144l^2r^5R+16r^7R-8l^6R^2+\right.$$
$$184l^4r^2R^2-472l^2r^4R^2+104r^6R^2+96l^4rR^3-704l^2r^3R^3+352r^5R^3+27l^4R^4-$$
$$\left.\left.522l^2r^2R^4+667r^4R^4-216l^2rR^5+728r^3R^5-44l^2R^6+476r^2R^6+176rR^7+36R^8\right)\right\}$$

$$\{X22,\ ExeterPoint,\ X53,\ SYMMEDIAN\ POINT\ OF\ ORTHIC\ TRIANGLE,$$
$$\left(4l^{12}r^2-36l^{10}r^4+88l^8r^6-88l^6r^8+36l^4r^{10}-4l^2r^{12}-80l^{10}r^3R+512l^8r^5R-864l^6r^7R+\right.$$
$$512l^4r^9R-80l^2r^{11}R-60l^{10}r^2R^2+1008l^8r^4R^2-3304l^6r^6R^2+3056l^4r^8R^2-700l^2r^{10}R^2+$$
$$960l^8r^3R^3-6464l^6r^5R^3+10048l^4r^7R^3-3520l^2r^9R^3+l^{10}R^4+359l^8r^2R^4-7130l^6r^4R^4+$$
$$20058l^4r^6R^4-11239l^2r^8R^4-r^{10}R^4-20l^8rR^5-4288l^6r^3R^5+25128l^4r^5R^5-$$
$$23744l^2r^7R^5-20r^9R^5-8l^8R^6-1004l^6r^2R^6+19528l^4r^4R^6-33516l^2r^6R^6-168r^8R^6+$$
$$128l^6rR^7+8544l^4r^3R^7-31200l^2r^5R^7-768r^7R^7+16l^6R^8+1392l^4r^2R^8-18480l^2r^4R^8-$$
$$\left.2064r^6R^8-192l^4rR^9-6400l^2r^3R^9-3264r^5R^9-960l^2r^2R^{10}-2816r^4R^{10}-1024r^3R^{11}\right)/$$
$$\left.\left(\left(l^2-r^2-4rR-3R^2\right)^2\left(l^4-6l^2r^2+r^4-8l^2rR+8r^3R-4l^2R^2+20r^2R^2+16rR^3\right)^2\right)\right\}$$

$$\{X22,\ ExeterPoint,\ X54,\ KosnitaPoint,$$
$$-\left(\left(R^2\left(16l^6r^2-32l^4r^4+16l^2r^6-128l^4r^3R+128l^2r^5R-3l^6R^2-83l^4r^2R^2+339l^2r^4R^2+3r^6R^2+\right.\right.\right.$$
$$36l^4rR^3+296l^2r^3R^3+36r^5R^3+10l^4R^4-32l^2r^2R^4+154r^4R^4-80l^2rR^5+272r^3R^5+$$
$$\left.\left.\left.8l^2R^6+152r^2R^6-32rR^7-36R^8\right)\right)/\left(\left(2l^2-2r^2-8rR-5R^2\right)^2\left(l^2-r^2-4rR-3R^2\right)^2\right)\right)\}$$

$$\left\{X22,\ ExeterPoint,\ X55,\ INSIMILICENTER(CIRCUMCIRCLE,\ INCIRCLE),\right.$$
$$\left.-\frac{R^3\left(3l^4r-4l^2r^3+r^5-18l^2r^2R+10r^4R-15l^2rR^2+33r^3R^2-l^2R^3+40r^2R^3+16rR^4\right)}{(r+R)^2\left(-l^2+r^2+4rR+3R^2\right)^2}\right\}$$

$$\left\{X22,\ ExeterPoint,\ X56,\ EXSIMILICENTER(CIRCUMCIRCLE,\ INCIRCLE),\right.$$
$$\left.-\frac{R^3\left(l^4r-4l^2r^3+3r^5-6l^2r^2R+14r^4R-5l^2rR^2+19r^3R^2-l^2R^3+12r^2R^3+16rR^4\right)}{(r-R)^2\left(-l^2+r^2+4rR+3R^2\right)^2}\right\}$$

$$\{X22,\ ExeterPoint,\ X57,\ ISOGONAL\ CONJUGATE\ OF\ X(9),$$
$$-\left(\left(R\left(2l^4r^3-4l^2r^5+2r^7+6l^4r^2R-30l^2r^4R+24r^6R+\right.\right.\right.$$
$$4l^4rR^2-70l^2r^3R^2+106r^5R^2-55l^2r^2R^3+213r^4R^3-24l^2rR^4+204r^3R^4-$$
$$\left.\left.\left.4l^2R^5+112r^2R^5+64rR^6\right)\right)/\left((r-2R)^2\left(-l^2+r^2+4rR+3R^2\right)^2\right)\right)\}$$

$$\{X22,\ ExeterPoint,\ X58,\ ISOGONAL\ CONJUGATE\ OF\ X(10),$$
$$-\left(\left(R^2\left(14l^6r^2-34l^4r^4+18l^2r^6+2r^8-104l^4r^3R+112l^2r^5R+24r^7R-l^6R^2-71l^4r^2R^2+\right.\right.\right.$$
$$\left.\left.\left.253l^2r^4R^2+99r^6R^2+12l^4rR^3+232l^2r^3R^3+188r^5R^3+60l^2r^2R^4+172r^4R^4+64r^3R^5\right)\right)/$$
$$\left.\left.\left(\left(l^2-3r^2-4rR\right)^2\left(l^2-r^2-4rR-3R^2\right)^2\right)\right)\right\}$$

$$\left\{X22,\ ExeterPoint,\ X59,\ ISOGONAL\ CONJUGATE\ OF\ X(11),\right.$$
$$-\frac{1}{(2r-R)\left(-l^2+r^2+4rR+3R^2\right)^2\left(-l^2+r^2+5rR+4R^2\right)^2}$$
$$R^2\left(8l^6r^3-16l^4r^5+8l^2r^7-13l^6r^2R-41l^4r^4R+53l^2r^6R+r^8R+4l^6rR^2+58l^4r^3R^2+\right.$$
$$64l^2r^5R^2+18r^7R^2+l^6R^3+71l^4r^2R^3-185l^2r^4R^3+125r^6R^3-56l^4rR^4-360l^2r^3R^4+$$
$$\left.\left.408r^5R^4-8l^4R^5+52l^2r^2R^5+572r^4R^5+224l^2rR^6+80r^3R^6+16l^2R^7-448r^2R^7-256rR^8\right)\right\}$$

$$\{X22,\ ExeterPoint,\ X60,\ ISOGONAL\ CONJUGATE\ OF\ X(12),$$
$$-\frac{1}{\left(l^2-r^2-4rR-3R^2\right)^2\left(2l^2r-2r^3+l^2R-7r^2R-7rR^2\right)^2}$$
$$R^2\left(16l^6r^4-32l^4r^6+16l^2r^8+34l^6r^3R-190l^4r^5R+158l^2r^7R-2r^9R+17l^6r^2R^2-391l^4r^4R^2+\right.$$
$$623l^2r^6R^2-25r^8R^2-2l^6rR^3-312l^4r^3R^3+1222l^2r^5R^3-116r^7R^3-l^6R^4-67l^4r^2R^4+$$
$$\left.\left.1201l^2r^4R^4-249r^6R^4+12l^4rR^5+512l^2r^3R^5-228r^5R^5+60l^2r^2R^6-20r^4R^6+64r^3R^7\right)\right\}$$

$$\left\{X22,\ \text{ExeterPoint},\ X61,\ \text{ISOGONAL CONJUGATE OF } X(17),\right.$$

$$-\frac{1}{\left(3 l^2+2\sqrt{3}\, l\, r-3 r^2-12 r R\right)^2 \left(l^2-r^2-4 r R-3 R^2\right)^2}$$

$$3 R^2 \left(2\sqrt{3}\, l^7 r+48 l^6 r^2+2\sqrt{3}\, l^5 r^3-96 l^4 r^4-2\sqrt{3}\, l^3 r^5+48 l^2 r^6-2\sqrt{3}\, l r^7-24\sqrt{3}\, l^5 r^2 R-\right.$$
$$384 l^4 r^3 R+16\sqrt{3}\, l^3 r^4 R+384 l^2 r^5 R-24\sqrt{3}\, l r^6 R-3 l^6 R^2-10\sqrt{3}\, l^5 r R^2-235 l^4 r^2 R^2+$$
$$92\sqrt{3}\, l^3 r^3 R^2+1003 l^2 r^4 R^2-106\sqrt{3}\, l r^5 R^2+3 r^6 R^2+36 l^4 r R^3+80\sqrt{3}\, l^3 r^2 R^3+$$
$$\left.\left.904 l^2 r^3 R^3-208\sqrt{3}\, l r^4 R^3+36 r^5 R^3+144 l^2 r^2 R^4-160\sqrt{3}\, l r^3 R^4+144 r^4 R^4+192 r^3 R^5\right)\right\}$$

$$\left\{X22,\ \text{ExeterPoint},\ X62,\ \text{ISOGONAL CONJUGATE OF } X(18),\right.$$

$$-\frac{1}{\left(3 l^2-2\sqrt{3}\, l\, r-3 r^2-12 r R\right)^2 \left(l^2-r^2-4 r R-3 R^2\right)^2}$$

$$3 R^2 \left(-2\sqrt{3}\, l^7 r+48 l^6 r^2-2\sqrt{3}\, l^5 r^3-96 l^4 r^4+2\sqrt{3}\, l^3 r^5+48 l^2 r^6+2\sqrt{3}\, l r^7+24\sqrt{3}\, l^5 r^2 R-\right.$$
$$384 l^4 r^3 R-16\sqrt{3}\, l^3 r^4 R+384 l^2 r^5 R+24\sqrt{3}\, l r^6 R-3 l^6 R^2+10\sqrt{3}\, l^5 r R^2-235 l^4 r^2 R^2-$$
$$92\sqrt{3}\, l^3 r^3 R^2+1003 l^2 r^4 R^2+106\sqrt{3}\, l r^5 R^2+3 r^6 R^2+36 l^4 r R^3-80\sqrt{3}\, l^3 r^2 R^3+$$
$$\left.\left.904 l^2 r^3 R^3+208\sqrt{3}\, l r^4 R^3+36 r^5 R^3+144 l^2 r^2 R^4+160\sqrt{3}\, l r^3 R^4+144 r^4 R^4+192 r^3 R^5\right)\right\}$$

$$\left\{X22,\ \text{ExeterPoint},\ X63,\ \text{ISOGONAL CONJUGATE OF } X(19),\right.$$
$$-\left(\left(R\left(-l^6 r+3 l^4 r^3-3 l^2 r^5+r^7+12 l^4 r^2 R-26 l^2 r^4 R+14 r^6 R+\right.\right.\right.$$
$$13 l^4 r R^2-82 l^2 r^3 R^2+77 r^5 R^2+l^4 R^3-111 l^2 r^2 R^3+212 r^4 R^3-56 l^2 r R^4+$$
$$\left.\left.\left.308 r^3 R^4-4 l^2 R^5+224 r^2 R^5+64 r R^6\right)\right)\Big/\left((r+R)^2\left(-l^2+r^2+4 r R+3 R^2\right)^2\right)\right)\Big\}$$

$$\left\{X22,\ \text{ExeterPoint},\ X64,\ \text{ISOGONAL CONJUGATE OF } X(20),\right.$$

$$\frac{1}{(l-r-2 R)^2 (l+r+2 R)^2 \left(l^2-r^2-4 r R-3 R^2\right)^2}$$

$$R^2 \left(6 l^8-16 l^6 r^2+20 l^4 r^4-16 l^2 r^6+6 r^8-96 l^6 r R+224 l^4 r^3 R-224 l^2 r^5 R+96 r^7 R-117 l^6 R^2+\right.$$
$$875 l^4 r^2 R^2-1323 l^2 r^4 R^2+693 r^6 R^2+1404 l^4 r R^3-4136 l^2 r^3 R^3+2940 r^5 R^3+788 l^4 R^4-$$
$$\left.7108 l^2 r^2 R^4+7940 r^4 R^4-6304 l^2 r R^5+13792 r^3 R^5-2240 l^2 R^6+14848 r^2 R^6+8960 r R^7+2304 R^8\right)\Big\}$$

$$\left\{X22,\ \text{ExeterPoint},\ X65,\ \text{ORTHOCENTER OF THE INTOUCH TRIANGLE},\right.$$

$$-\frac{1}{R\left(-l^2+r^2+4 r R+3 R^2\right)^2}\left(2 l^4 r^3-4 l^2 r^5+2 r^7+3 l^4 r^2 R-22 l^2 r^4 R+19 r^6 R+l^4 r R^2-\right.$$
$$\left.\left.36 l^2 r^3 R^2+67 r^5 R^2-22 l^2 r^2 R^3+110 r^4 R^3-7 l^2 r R^4+91 r^3 R^4-l^2 R^5+44 r^2 R^5+16 r R^6\right)\right\}$$

$$\left\{X22,\ \text{ExeterPoint},\ X66,\ \text{ISOGONAL CONJUGATE OF } X(22),\right.$$
$$-\left(\left(l^{14}-11 l^{12} r^2+41 l^{10} r^4-75 l^8 r^6+75 l^6 r^8-41 l^4 r^{10}+11 l^2 r^{12}-r^{14}-28 l^{12} r R+\right.\right.$$
$$248 l^{10} r^3 R-740 l^8 r^5 R+1040 l^6 r^7 R-740 l^4 r^9 R+248 l^2 r^{11} R-28 r^{13} R-11 l^{12} R^2+$$
$$450 l^{10} r^2 R^2-2677 l^8 r^4 R^2+5788 l^6 r^6 R^2-5637 l^4 r^8 R^2+2434 l^2 r^{10} R^2-347 r^{12} R^2+$$
$$264 l^{10} r R^3-4328 l^8 r^3 R^3+16464 l^6 r^5 R^3-23504 l^4 r^7 R^3+13608 l^2 r^9 R^3-2504 r^{11} R^3+$$
$$40 l^{10} R^4-3072 l^8 r^2 R^4+25224 l^6 r^4 R^4-58152 l^4 r^6 R^4+47600 l^2 r^8 R^4-11640 r^{10} R^4-$$
$$800 l^8 r R^5+20064 l^6 r^3 R^5-86400 l^4 r^5 R^5+107616 l^2 r^7 R^5-36384 r^9 R^5-47 l^8 R^6+$$
$$7168 l^6 r^2 R^6-74018 l^4 r^4 R^6+156544 l^2 r^6 R^6-77359 r^8 R^6+752 l^6 r R^7-32496 l^4 r^3 R^7+$$
$$140528 l^2 r^5 R^7-110320 r^7 R^7-4 l^6 R^8-5268 l^4 r^2 R^8+70260 l^2 r^4 R^8-100764 r^6 R^8+$$
$$\left.\left.48 l^4 r R^9+15008 l^2 r^3 R^9-52944 r^5 R^9+240 l^2 r^2 R^{10}-11840 r^4 R^{10}+256 r^3 R^{11}\right)\Big/$$
$$\left.\left.\left((l-r-2 R)^2 (l+r+2 R)^2 \left(l^2-r^2-4 r R\right)^2 \left(l^2-r^2-4 r R-3 R^2\right)^2\right)\right)\right\}$$

$$\{X22, \text{ExeterPoint}, X67, \text{ISOGONAL CONJUGATE OF } X(23),$$
$$-\Big(\big(l^{12} - 18 l^{10} r^2 + 63 l^8 r^4 - 92 l^6 r^6 + 63 l^4 r^8 - 18 l^2 r^{10} + r^{12} - 24 l^{10} r R + 312 l^8 r^3 R - 816 l^6 r^5 R + 816 l^4 r^7 R - 312 l^2 r^9 R + 24 r^{11} R - 7 l^{10} R^2 + 407 l^8 r^2 R^2 - 2578 l^6 r^4 R^2 + 4210 l^4 r^6 R^2 - 2279 l^2 r^8 R^2 + 247 r^{10} R^2 + 140 l^8 r R^3 - 3424 l^6 r^3 R^3 + 10920 l^4 r^5 R^3 - 9056 l^2 r^7 R^3 + 1420 r^9 R^3 + 10 l^8 R^4 - 1736 l^6 r^2 R^4 + 14748 l^4 r^4 R^4 - 21064 l^2 r^6 R^4 + 4970 r^8 R^4 - 160 l^6 r R^5 + 9568 l^4 r^3 R^5 - 28640 l^2 r^5 R^5 + 10784 r^7 R^5 + 9 l^6 R^6 + 2121 l^4 r^2 R^6 - 21257 l^2 r^4 R^6 + 14007 r^6 R^6 - 108 l^4 r R^7 - 7096 l^2 r^3 R^7 + 9620 r^5 R^7 - 540 l^2 r^2 R^8 + 2128 r^4 R^8 - 576 r^3 R^9\big) \Big/ \big((l^2 - r^2 - 4 r R)^2 (2 l^2 - 2 r^2 - 8 r R - 9 R^2) (l^2 - r^2 - 4 r R - 3 R^2)^2\big)\Big)\}$$

$$\{X22, \text{ExeterPoint}, X68, \text{PRASOLOV POINT},$$
$$-\frac{1}{(l - r - 2 R)^2 (l + r + 2 R)^2 (l^2 - r^2 - 4 r R - 3 R^2)^2}\big(l^{10} - 9 l^8 r^2 + 22 l^6 r^4 - 22 l^4 r^6 + 9 l^2 r^8 - r^{10} - 20 l^8 r R + 128 l^6 r^3 R - 216 l^4 r^5 R + 128 l^2 r^7 R - 20 r^9 R - 13 l^8 R^2 + 252 l^6 r^2 R^2 - 830 l^4 r^4 R^2 + 764 l^2 r^6 R^2 - 173 r^8 R^2 + 208 l^6 r R^3 - 1584 l^4 r^3 R^3 + 2480 l^2 r^5 R^3 - 848 r^7 R^3 + 62 l^6 R^4 - 1562 l^4 r^2 R^4 + 4730 l^2 r^4 R^4 - 2590 r^6 R^4 - 744 l^4 r R^5 + 5328 l^2 r^3 R^5 - 5096 r^5 R^5 - 131 l^4 R^6 + 3370 l^2 r^2 R^6 - 6435 r^4 R^6 + 1048 l^2 r R^7 - 5016 r^3 R^7 + 116 l^2 R^8 - 2212 r^2 R^8 - 464 r R^9 - 36 R^{10}\big)\}$$

$$\{X22, \text{ExeterPoint}, X69, \text{SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},$$
$$\frac{1}{(l^2 - r^2 - 4 r R)^2 (l^2 - r^2 - 4 r R - 3 R^2)^2}$$
$$\big(8 l^8 r^2 - 24 l^6 r^4 + 24 l^4 r^6 - 8 l^2 r^8 - 96 l^6 r^3 R + 192 l^4 r^5 R - 96 l^2 r^7 R - l^8 R^2 - 84 l^6 r^2 R^2 + 554 l^4 r^4 R^2 - 468 l^2 r^6 R^2 - r^8 R^2 + 16 l^6 r R^3 + 656 l^4 r^3 R^3 - 1168 l^2 r^5 R^3 - 16 r^7 R^3 + 4 l^6 R^4 + 228 l^4 r^2 R^4 - 1540 l^2 r^4 R^4 - 100 r^6 R^4 - 48 l^4 r R^5 - 992 l^2 r^3 R^5 - 304 r^5 R^5 - 240 l^2 r^2 R^6 - 448 r^4 R^6 - 256 r^3 R^7\big)\}$$

$$\{X22, \text{ExeterPoint}, X70, \text{ISOGONAL CONJUGATE OF } X(26),$$
$$-\Big(\big(l^{14} - 11 l^{12} r^2 + 41 l^{10} r^4 - 75 l^8 r^6 + 75 l^6 r^8 - 41 l^4 r^{10} + 11 l^2 r^{12} - r^{14} - 28 l^{12} r R + 248 l^{10} r^3 R - 740 l^8 r^5 R + 1040 l^6 r^7 R - 740 l^4 r^9 R + 248 l^2 r^{11} R - 28 r^{13} R - 16 l^{12} R^2 + 492 l^{10} r^2 R^2 - 2800 l^8 r^4 R^2 + 5960 l^6 r^6 R^2 - 5760 l^4 r^8 R^2 + 2476 l^2 r^{10} R^2 - 352 r^{12} R^2 + 384 l^{10} r R^3 - 5120 l^8 r^3 R^3 + 18240 l^6 r^5 R^3 - 25280 l^4 r^7 R^3 + 14400 l^2 r^9 R^3 - 2624 r^{11} R^3 + 102 l^{10} R^4 - 4710 l^8 r^2 R^4 + 32180 l^6 r^4 R^4 - 68660 l^4 r^6 R^4 + 53990 l^2 r^8 R^4 - 12902 r^{10} R^4 - 2040 l^8 r R^5 + 32960 l^6 r^3 R^5 - 119184 l^4 r^5 R^5 + 136384 l^2 r^7 R^5 - 44024 r^9 R^5 - 330 l^8 R^6 + 18728 l^6 r^2 R^6 - 131836 l^4 r^4 R^6 + 235560 l^2 r^6 R^6 - 106762 r^8 R^6 + 5280 l^6 r R^7 - 89824 l^4 r^3 R^7 + 276448 l^2 r^5 R^7 - 185248 r^7 R^7 + 573 l^6 R^8 - 35067 l^4 r^2 R^8 + 214715 l^2 r^4 R^8 - 228349 r^6 R^8 - 6876 l^4 r R^9 + 104904 l^2 r^3 R^9 - 195804 r^5 R^9 - 522 l^4 R^{10} + 29592 l^2 r^2 R^{10} - 112506 r^4 R^{10} + 4176 l^2 r R^{11} - 40848 r^3 R^{11} + 224 l^2 R^{12} - 8576 r^2 R^{12} - 896 r R^{13} - 36 R^{14}\big) \Big/ \big((l^2 - r^2 - 4 r R - 3 R^2)^2 (l^4 - 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 6 l^2 R^2 + 22 r^2 R^2 + 24 r R^3 + 7 R^4)^2\big)\Big)\}$$

$$\{X22, \text{ExeterPoint}, X71, \text{ISOGONAL CONJUGATE OF } X(27),$$
$$\Big(R^2 \big(6 l^8 - 18 l^6 r^2 + 26 l^4 r^4 - 14 l^2 r^6 - 80 l^6 r R + 208 l^4 r^3 R - 160 l^2 r^5 R - 77 l^6 R^2 + 573 l^4 r^2 R^2 - 711 l^2 r^4 R^2 - r^6 R^2 + 624 l^4 r R^3 - 1536 l^2 r^3 R^3 - 16 r^5 R^3 + 212 l^4 R^4 - 1616 l^2 r^2 R^4 - 100 r^4 R^4 - 656 l^2 r R^5 - 304 r^3 R^5 + 16 l^2 R^6 - 448 r^2 R^6 - 256 r R^7\big)\Big) \Big/ \big((l^2 - r^2 - 4 r R - 3 R^2)^2 (l^2 + r^2 + 6 r R + 8 R^2)^2\big)\}$$

$$\{X22, \text{ExeterPoint}, X72, \text{ISOGONAL CONJUGATE OF } X(28), -\frac{1}{R (-l^2 + r^2 + 4 r R + 3 R^2)^2}$$
$$\big(-l^6 r + 3 l^4 r^3 - 3 l^2 r^5 + r^7 + 13 l^4 r^2 R - 26 l^2 r^4 R + 13 r^6 R + 11 l^4 r R^2 - 80 l^2 r^3 R^2 + 69 r^5 R^2 + l^4 R^3 - 102 l^2 r^2 R^3 + 189 r^4 R^3 - 48 l^2 r R^4 + 278 r^3 R^4 - 4 l^2 R^5 + 207 r^2 R^5 + 64 r R^6\big)\}$$

$$\{X22, \text{ExeterPoint}, X73, \text{CROSSPOINT OF INCENTER AND CIRCUMCENTER},$$
$$-\Big(\big(R^2 \big(14 l^6 r^2 - 26 l^4 r^4 + 18 l^2 r^6 - 6 r^8 - 4 l^6 r R - 132 l^4 r^3 R + 180 l^2 r^5 R - 76 r^7 R - l^6 R^2 - 95 l^4 r^2 R^2 + 605 l^2 r^4 R^2 - 405 r^6 R^2 + 52 l^4 r R^3 + 728 l^2 r^3 R^3 - 1116 r^5 R^3 + 8 l^4 R^4 + 104 l^2 r^2 R^4 - 1568 r^4 R^4 - 208 l^2 r R^5 - 848 r^3 R^5 - 16 l^2 R^6 + 192 r^2 R^6 + 256 r R^7\big)\Big) \Big/ \big((l^2 + r^2 - 2 r R - 4 R^2)^2 (l^2 - r^2 - 4 r R - 3 R^2)^2\big)\Big)\}$$

$$\{X22, \text{ExeterPoint}, X74, \text{ISOGONAL CONJUGATE OF EULER INFINITY POINT},$$
$$\left(R^2 \left(3 l^6 - 5 l^4 r^2 + 5 l^2 r^4 - 3 r^6 - 36 l^4 r R + 56 l^2 r^3 R - 36 r^5 R - 46 l^4 R^2 + 224 l^2 r^2 R^2 - 190 r^4 R^2 + 368 l^2 r R^3 - 560 r^3 R^3 + 216 l^2 R^4 - 952 r^2 R^4 - 864 r R^5 - 324 R^6\right)\right) / \left(\left(2 l^2 - 2 r^2 - 8 r R - 9 R^2\right) \left(l^2 - r^2 - 4 r R - 3 R^2\right)^2\right)\}$$

$$\{X22, \text{ExeterPoint}, X75, \text{ISOTOMIC CONJUGATE OF INCENTER},$$
$$-\frac{1}{\left(l^2 + r^2 + 4 r R\right)^2 \left(l^2 - r^2 - 4 r R - 3 R^2\right)^2} R \left(8 l^8 r - 40 l^6 r^3 + 56 l^4 r^5 - 24 l^2 r^7 + l^8 R - 112 l^6 r^2 R + 350 l^4 r^4 R - 240 l^2 r^6 R + r^8 R - 56 l^6 r R^2 + 688 l^4 r^3 R^2 - 904 l^2 r^5 R^2 + 16 r^7 R^2 - 4 l^6 R^3 + 444 l^4 r^2 R^3 - 1564 l^2 r^4 R^3 + 100 r^6 R^3 + 80 l^4 r R^4 - 1184 l^2 r^3 R^4 + 304 r^5 R^4 - 272 l^2 r^2 R^5 + 448 r^4 R^5 + 256 r^3 R^6\right)\}$$

$$\{X22, \text{ExeterPoint}, X76, \text{3rd BROCARD POINT},$$
$$-\left(\left(R^2 \left(l^{12} + 34 l^{10} r^2 - 257 l^8 r^4 + 444 l^6 r^6 - 257 l^4 r^8 + 34 l^2 r^{10} + r^{12} - 24 l^{10} r R - 520 l^8 r^3 R + 2576 l^6 r^5 R - 2576 l^4 r^7 R + 520 l^2 r^9 R + 24 r^{11} R - 4 l^{10} R^2 - 12 l^8 r^2 R^2 + 4168 l^6 r^4 R^2 - 9320 l^4 r^6 R^2 + 3132 l^2 r^8 R^2 + 244 r^{10} R^2 + 80 l^8 r R^3 + 1664 l^6 r^3 R^3 - 14496 l^4 r^5 R^3 + 9344 l^2 r^7 R^3 + 1360 r^9 R^3 - 208 l^6 r^2 R^4 - 8736 l^4 r^4 R^4 + 14128 l^2 r^6 R^4 + 4480 r^8 R^4 - 896 l^4 r^3 R^5 + 9600 l^2 r^5 R^5 + 8704 r^7 R^5 + 1792 l^2 r^4 R^6 + 9216 r^6 R^6 + 4096 r^5 R^7\right)\right) / \left(\left(l^2 - r^2 - 4 r R - 3 R^2\right)^2 \left(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\right)^2\right)\right)\}$$

$$\{X22, \text{ExeterPoint}, X77, \text{ISOGONAL CONJUGATE OF } X(33),$$
$$-\frac{1}{\left(l^2 - r R - 4 R^2\right)^2 \left(l^2 - r^2 - 4 r R - 3 R^2\right)^2} R \left(l^8 r - 3 l^6 r^3 + 3 l^4 r^5 - l^2 r^7 - 8 l^6 r^2 R + 18 l^4 r^4 R - 10 l^2 r^6 R - 13 l^6 r R^2 + 46 l^4 r^3 R^2 - 41 l^2 r^5 R^2 - l^6 R^3 + 78 l^4 r^2 R^3 - 100 l^2 r^4 R^3 + r^6 R^3 + 76 l^4 r R^4 - 196 l^2 r^3 R^4 + 16 r^5 R^4 + 8 l^4 R^5 - 300 l^2 r^2 R^5 + 100 r^4 R^5 - 224 l^2 r R^6 + 304 r^3 R^6 - 16 l^2 R^7 + 448 r^2 R^7 + 256 r R^8\right)\}$$

$$\{X22, \text{ExeterPoint}, X78, \text{ISOGONAL CONJUGATE OF } X(34),$$
$$-\left(\left(R \left(-l^6 r + 3 l^4 r^3 - 3 l^2 r^5 + r^7 + 14 l^4 r^2 R - 26 l^2 r^4 R + 12 r^6 R + 9 l^4 r R^2 - 78 l^2 r^3 R^2 + 61 r^5 R^2 + l^4 R^3 - 89 l^2 r^2 R^3 + 162 r^4 R^3 - 40 l^2 r R^4 + 232 r^3 R^4 - 4 l^2 R^5 + 172 r^2 R^5 + 64 r R^6\right)\right) / \left((r - R)^2 \left(-l^2 + r^2 + 4 r R + 3 R^2\right)^2\right)\right)\}$$

$$\{X22, \text{ExeterPoint}, X79, \text{ISOGONAL CONJUGATE OF } X(35),$$
$$\left(-12 l^6 r^2 + 28 l^4 r^4 - 20 l^2 r^6 + 4 r^8 - 6 l^6 r R + 134 l^4 r^3 R - 186 l^2 r^5 R + 58 r^7 R + 152 l^4 r^2 R^2 - 616 l^2 r^4 R^2 + 336 r^6 R^2 + 30 l^4 r R^3 - 852 l^2 r^3 R^3 + 982 r^5 R^3 - 410 l^2 r^2 R^4 + 1482 r^4 R^4 + 12 l^2 r R^5 + 992 r^3 R^5 + 9 l^2 R^6 + 69 r^2 R^6 - 144 r R^7\right) / \left((2 r + 3 R)^2 \left(-l^2 + r^2 + 4 r R + 3 R^2\right)^2\right)\}$$

$$\{X22, \text{ExeterPoint}, X80, \text{REFLECTION OF INCENTER IN FEUERBACH POINT},$$
$$\left(-2 l^6 r + 10 l^4 r^3 - 14 l^2 r^5 + 6 r^7 + 28 l^4 r^2 R - 88 l^2 r^4 R + 60 r^6 R + 14 l^4 r R^2 - 176 l^2 r^3 R^2 + 226 r^5 R^2 - 130 l^2 r^2 R^3 + 402 r^4 R^3 - 26 l^2 r R^4 + 346 r^3 R^4 - l^2 R^5 + 123 r^2 R^5 + 16 r R^6\right) / \left((2 r - R) \left(-l^2 + r^2 + 4 r R + 3 R^2\right)^2\right)\}$$

$$\{X22, \text{ExeterPoint}, X81, \text{CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},$$
$$-\left(\left(R \left(l^8 r - 2 l^4 r^5 + r^9 + 2 l^6 r^2 R - 22 l^4 r^4 R + 6 l^2 r^6 R + 14 r^8 R - 5 l^6 r R^2 - 53 l^4 r^3 R^2 + 45 l^2 r^5 R^2 + 77 r^7 R^2 - l^6 R^3 - 30 l^4 r^2 R^3 + 123 l^2 r^4 R^3 + 212 r^6 R^3 + 12 l^4 r R^4 + 144 l^2 r^3 R^4 + 308 r^5 R^4 + 60 l^2 r^2 R^5 + 224 r^4 R^5 + 64 r^3 R^6\right)\right) / \left(\left(l^2 - r^2 - r R\right)^2 \left(l^2 - r^2 - 4 r R - 3 R^2\right)^2\right)\right)\}$$

$$\{X22, \text{ExeterPoint}, X82, \text{ISOGONAL CONJUGATE OF } X(38),$$
$$-\left(\left(R \left(l^{12} r - 3 l^8 r^5 + 3 l^4 r^9 - r^{13} - 16 l^{10} r^2 R - 24 l^8 r^4 R + 96 l^6 r^6 R - 80 l^4 r^8 R + 48 l^2 r^{10} R - 24 r^{12} R - 5 l^{10} r R^2 + 67 l^8 r^3 R^2 + 402 l^6 r^5 R^2 - 846 l^4 r^7 R^2 + 627 l^2 r^9 R^2 - 245 r^{11} R^2 - l^{10} R^3 + 62 l^8 r^2 R^3 + 258 l^6 r^4 R^3 - 2652 l^4 r^6 R^3 + 3199 l^2 r^8 R^3 - 1378 r^{10} R^3 + 28 l^8 r R^4 - 156 l^6 r^3 R^4 - 3068 l^4 r^5 R^4 + 7932 l^2 r^7 R^4 - 4608 r^9 R^4 - 236 l^6 r^2 R^5 - 772 l^4 r^4 R^5 + 9452 l^2 r^6 R^5 - 9148 r^8 R^5 + 752 l^4 r^3 R^6 + 3968 l^2 r^5 R^6 - 9936 r^7 R^6 - 784 l^2 r^4 R^7 - 4416 r^6 R^7 + 256 r^5 R^8\right)\right) / \left(\left(l^2 - r^2 - 4 r R - 3 R^2\right)^2 \left(l^4 - 4 l^2 r^2 + 3 r^4 - 9 l^2 r R + 19 r^3 R + 28 r^2 R^2\right)^2\right)\right)\}$$

$$\{X22, \text{ExeterPoint}, X83, \text{CEVAPOINT OF CENTROID AND SYMMEDIAN POINT},$$
$$-\Big(\big(4 l^{14} + 4 l^{12} r^2 - 12 l^{10} r^4 - 12 l^8 r^6 + 12 l^6 r^8 + 12 l^4 r^{10} - 4 l^2 r^{12} - 4 r^{14} - 112 l^{12} r R + 32 l^{10} r^3 R + 112 l^8 r^5 R - 64 l^6 r^7 R + 112 l^4 r^9 R + 32 l^2 r^{11} R - 112 r^{13} R - 19 l^{12} R^2 + 1338 l^{10} r^2 R^2 - 1837 l^8 r^4 R^2 + 1676 l^6 r^6 R^2 - 1389 l^4 r^8 R^2 + 1594 l^2 r^{10} R^2 - 1363 r^{12} R^2 + 456 l^{10} r R^3 - 9320 l^8 r^3 R^3 + 17616 l^6 r^5 R^3 - 19152 l^4 r^7 R^3 + 15720 l^2 r^9 R^3 - 9416 r^{11} R^3 - 4 l^{10} R^4 - 4652 l^8 r^2 R^4 + 43752 l^6 r^4 R^4 - 78984 l^4 r^6 R^4 + 73372 l^2 r^8 R^4 - 40396 r^{10} R^4 + 80 l^8 r R^5 + 25344 l^6 r^3 R^5 - 134048 l^4 r^5 R^5 + 182528 l^2 r^7 R^5 - 110256 r^9 R^5 - 208 l^6 r^2 R^6 - 77856 l^4 r^4 R^6 + 233776 l^2 r^6 R^6 - 187008 r^8 R^6 - 896 l^4 r^3 R^7 + 122240 l^2 r^5 R^7 - 179712 r^7 R^7 + 1792 l^2 r^4 R^8 - 72704 r^6 R^8 + 4096 r^5 R^9\big) \Big/ \big((l^2 - r^2 - 4 r R - 3 R^2)^2 (5 l^4 - 6 l^2 r^2 + 5 r^4 - 40 l^2 r R + 40 r^3 R + 80 r^2 R^2)^2\big)\Big)\}$$

$$\{X22, \text{ExeterPoint}, X84, \text{ISOGONAL CONJUGATE OF } X(40), \frac{1}{r^2 (-l^2 + r^2 + 4 r R + 3 R^2)^2}$$
$$R \big(2 l^6 r - 4 l^4 r^3 + 2 l^2 r^5 - 4 l^6 R - 6 l^4 r^2 R + 10 l^2 r^4 R + 22 l^4 r R^2 - 2 l^2 r^3 R^2 + 4 r^5 R^2 + 40 l^4 R^3 - 101 l^2 r^2 R^3 + 47 r^4 R^3 - 212 l^2 r R^4 + 200 r^3 R^4 - 132 l^2 R^5 + 400 r^2 R^5 + 384 r R^6 + 144 R^7\big)\}$$

$$\{X22, \text{ExeterPoint}, X85, \text{ISOTOMIC CONJUGATE OF } X(9),$$
$$-\frac{1}{(l^2 - r^2 - 4 r R - 3 R^2)^2 (l^2 + r^2 + 8 r R + 16 R^2)^2} R \big(24 l^8 r - 56 l^6 r^3 + 40 l^4 r^5 - 8 l^2 r^7 + 17 l^8 R - 288 l^6 r^2 R + 398 l^4 r^4 R - 128 l^2 r^6 R + r^8 R - 384 l^6 r R^2 + 1448 l^4 r^3 R^2 - 832 l^2 r^5 R^2 + 24 r^7 R^2 - 84 l^6 R^3 + 2284 l^4 r^2 R^3 - 2828 l^2 r^4 R^3 + 244 r^6 R^3 + 1360 l^4 r R^4 - 5376 l^2 r^3 R^4 + 1360 r^5 R^4 + 64 l^4 R^5 - 5584 l^2 r^2 R^5 + 4480 r^4 R^5 - 2688 l^2 r R^6 + 8704 r^3 R^6 - 256 l^2 R^7 + 9216 r^2 R^7 + 4096 r R^8\big)\}$$

$$\{X22, \text{ExeterPoint}, X86, \text{CEVAPOINT OF INCENTER AND CENTROID},$$
$$-\frac{1}{(5 l^2 + r^2 + 4 r R)^2 (l^2 - r^2 - 4 r R - 3 R^2)^2}$$
$$\big(4 l^{10} - 8 l^6 r^4 + 4 l^2 r^8 - 32 l^8 r R - 32 l^6 r^3 R + 32 l^4 r^5 R + 32 l^2 r^7 R - 19 l^8 R^2 + 60 l^6 r^2 R^2 + 146 l^4 r^4 R^2 + 68 l^2 r^6 R^2 + r^8 R^2 + 80 l^6 r R^3 + 144 l^4 r^3 R^3 - 48 l^2 r^5 R^3 + 16 r^7 R^3 - 4 l^6 R^4 - 36 l^4 r^2 R^4 - 252 l^2 r^4 R^4 + 100 r^6 R^4 + 48 l^4 r R^5 - 32 l^2 r^3 R^5 + 304 r^5 R^5 + 240 l^2 r^2 R^6 + 448 r^4 R^6 + 256 r^3 R^7\big)\}$$

$$\{X22, \text{ExeterPoint}, X87, X(2)\text{-CROSS CONJUGATE OF } X(1),$$
$$\Big(R \big(2 l^{12} r + 4 l^{10} r^3 - 2 l^8 r^5 - 8 l^6 r^7 - 2 l^4 r^9 + 4 l^2 r^{11} + 2 r^{13} - 74 l^{10} r^2 R - 46 l^8 r^4 R + 76 l^6 r^6 R + 20 l^4 r^8 R - 2 l^2 r^{10} R + 26 r^{12} R - 10 l^{10} r R^2 + 954 l^8 r^3 R^2 + 44 l^6 r^5 R^2 - 700 l^4 r^7 R^2 + 286 l^2 r^9 R^2 + 66 r^{11} R^2 + l^{10} R^3 + 329 l^8 r^2 R^3 - 5686 l^6 r^4 R^3 + 882 l^4 r^6 R^3 + 2213 l^2 r^8 R^3 - 587 r^{10} R^3 - 32 l^8 r R^4 - 3552 l^6 r^3 R^4 + 15072 l^4 r^5 R^4 + 1760 l^2 r^7 R^4 - 4544 r^9 R^4 + 288 l^6 r^2 R^5 + 15648 l^4 r^4 R^5 - 11808 l^2 r^6 R^5 - 12832 r^8 R^5 - 256 l^4 r^3 R^6 - 19456 l^2 r^5 R^6 - 17152 r^7 R^6 - 3840 l^2 r^4 R^7 - 11008 r^6 R^7 - 4096 r^5 R^8\big)\Big) \Big/ \big((l^2 - r^2 - 4 r R - 3 R^2)^2 (l^4 + 2 l^2 r^2 + r^4 - 20 l^2 r R + 12 r^3 R + 32 r^2 R^2)^2\big)\}$$

$$\{X22, \text{ExeterPoint}, X88, \text{ISOGONAL CONJUGATE OF } X(44), \frac{1}{(l^2 + 3 r^2 - 15 r R)^2 (l^2 - r^2 - 4 r R - 3 R^2)^2}$$
$$R \big(l^8 r + 4 l^6 r^3 - 38 l^4 r^5 + 60 l^2 r^7 - 27 r^9 - 34 l^6 r^2 R - 26 l^4 r^4 R + 330 l^2 r^6 R - 270 r^8 R - 5 l^6 r R^2 + 359 l^4 r^3 R^2 + 45 l^2 r^5 R^2 - 783 r^7 R^2 + l^6 R^3 + 142 l^4 r^2 R^3 - 1611 l^2 r^4 R^3 - 36 r^6 R^3 - 28 l^4 r R^4 - 1104 l^2 r^3 R^4 + 2700 r^5 R^4 + 228 l^2 r^2 R^5 + 2592 r^4 R^5 - 576 r^3 R^6\big)\}$$

$$\{X22, \text{ExeterPoint}, X89, \text{ISOGONAL CONJUGATE OF } X(45), -\frac{1}{(2 l^2 - 6 r^2 + 3 r R)^2 (l^2 - r^2 - 4 r R - 3 R^2)^2}$$
$$R \big(2 l^8 r + 20 l^6 r^3 + 8 l^4 r^5 - 84 l^2 r^7 + 54 r^9 + 58 l^6 r^2 R - 118 l^4 r^4 R - 642 l^2 r^6 R + 702 r^8 R - 10 l^6 r R^2 - 326 l^4 r^3 R^2 - 1638 l^2 r^5 R^2 + 3510 r^7 R^2 - 4 l^6 R^3 - 349 l^4 r^2 R^3 - 1458 l^2 r^4 R^3 + 8595 r^6 R^3 + 16 l^4 r R^4 - 24 l^2 r^3 R^4 + 11016 r^5 R^4 + 624 l^2 r^2 R^5 + 7344 r^4 R^5 + 2304 r^3 R^6\big)\}$$

$$\{X22, \text{ExeterPoint}, X90, X(3)\text{-CROSS CONJUGATE OF } X(1),$$
$$\Big(R \big(2 l^6 r^3 - 4 l^4 r^5 + 2 l^2 r^7 - 4 l^6 r^2 R - 6 l^4 r^4 R + 10 l^2 r^6 R + 2 l^6 r R^2 + 18 l^4 r^3 R^2 + 4 l^2 r^5 R^2 + 2 l^4 r^2 R^3 - 29 l^2 r^4 R^3 - 3 r^6 R^3 - 14 l^4 r R^4 + 6 l^2 r^3 R^4 - 32 r^5 R^4 + 70 l^2 r^2 R^5 - 118 r^4 R^5 + 24 l^2 r R^6 - 176 r^3 R^6 + l^2 R^7 - 91 r^2 R^7 - 16 r R^8\big)\Big) \Big/ \big((l^2 - r^2 - 4 r R - 3 R^2)^2 (r^2 + 2 r R - R^2)^2\big)\}$$

$$\left\{X22,\ \text{ExeterPoint},\ X91,\ \text{ISOGONAL CONJUGATE OF } X(47),\ \frac{1}{\left(l^2-r^2-4\,r\,R-3\,R^2\right)^2\left(l^2\,r+r^3-l^2\,R+3\,r^2\,R+2\,r\,R^2+2\,R^3\right)^2}\right.$$
$$R\left(l^{10}\,r-11\,l^8\,r^3+38\,l^6\,r^5-50\,l^4\,r^7+25\,l^2\,r^9-3\,r^{11}-23\,l^8\,r^2\,R+176\,l^6\,r^4\,R-402\,l^4\,r^6\,R+304\,l^2\,r^8\,R-\right.$$
$$55\,r^{10}\,R-11\,l^8\,r\,R^2+298\,l^6\,r^3\,R^2-1256\,l^4\,r^5\,R^2+1526\,l^2\,r^7\,R^2-429\,r^9\,R^2+208\,l^6\,r^2\,R^3-$$
$$1992\,l^4\,r^4\,R^3+4128\,l^2\,r^6\,R^3-1864\,r^8\,R^3+46\,l^6\,r\,R^4-1694\,l^4\,r^3\,R^4+6602\,l^2\,r^5\,R^4-4970\,r^7\,R^4+$$
$$l^6\,R^5-697\,l^4\,r^2\,R^5+6419\,l^2\,r^4\,R^5-8467\,r^6\,R^5-108\,l^4\,r\,R^6+3680\,l^2\,r^3\,R^6-9332\,r^5\,R^6-$$
$$\left.\left.4\,l^4\,R^7+1088\,l^2\,r^2\,R^7-6588\,r^4\,R^7+136\,l^2\,r\,R^8-2840\,r^3\,R^8+4\,l^2\,R^9-652\,r^2\,R^9-64\,r\,R^{10}\right)\right\}$$

$$\left\{X22,\ \text{ExeterPoint},\ X92,\ \text{CEVAPOINT OF INCENTER AND CLAWSON POINT},\ -\frac{1}{\left(l^2+r^2-4\,R^2\right)^2\left(l^2-r^2-4\,r\,R-3\,R^2\right)^2}\right.$$
$$R\left(12\,l^8\,r-40\,l^6\,r^3+48\,l^4\,r^5-24\,l^2\,r^7+4\,r^9+l^8\,R-168\,l^6\,r^2\,R+406\,l^4\,r^4\,R-\right.$$
$$312\,l^2\,r^6\,R+73\,r^8\,R-156\,l^6\,r\,R^2+1228\,l^4\,r^3\,R^2-1636\,l^2\,r^5\,R^2+564\,r^7\,R^2-12\,l^6\,R^3+$$
$$1564\,l^4\,r^2\,R^3-4404\,l^2\,r^4\,R^3+2404\,r^6\,R^3+736\,l^4\,r\,R^4-6384\,l^2\,r^3\,R^4+6160\,r^5\,R^4+48\,l^4\,R^5-$$
$$\left.\left.4736\,l^2\,r^2\,R^5+9664\,r^4\,R^5-1472\,l^2\,r\,R^6+9024\,r^3\,R^6-64\,l^2\,R^7+4608\,r^2\,R^7+1024\,r\,R^8\right)\right\}$$

$$\left\{X22,\ \text{ExeterPoint},\ X93,\ \text{ISOGONAL CONJUGATE OF } X(49),\right.$$
$$\left(R^2\left(3\,l^{12}-74\,l^{10}\,r^2+253\,l^8\,r^4-364\,l^6\,r^6+253\,l^4\,r^8-74\,l^2\,r^{10}+3\,r^{12}-72\,l^{10}\,r\,R+\right.\right.$$
$$1256\,l^8\,r^3\,R-3280\,l^6\,r^5\,R+3280\,l^4\,r^7\,R-1256\,l^2\,r^9\,R+72\,r^{11}\,R-42\,l^{10}\,R^2+$$
$$1690\,l^8\,r^2\,R^2-10\,828\,l^6\,r^4\,R^2+17\,388\,l^4\,r^6\,R^2-9226\,l^2\,r^8\,R^2+762\,r^{10}\,R^2+840\,l^8\,r\,R^3-$$
$$16\,320\,l^6\,r^3\,R^3+48\,624\,l^4\,r^5\,R^3-38\,336\,l^2\,r^7\,R^3+4680\,r^9\,R^3+224\,l^8\,R^4-11\,440\,l^6\,r^2\,R^4+$$
$$76\,960\,l^4\,r^4\,R^4-98\,736\,l^2\,r^6\,R^4+18\,464\,r^8\,R^4-3584\,l^6\,r\,R^5+68\,224\,l^4\,r^3\,R^5-$$
$$162\,176\,l^2\,r^5\,R^5+48\,896\,r^7\,R^5-558\,l^6\,R^6+31\,578\,l^4\,r^2\,R^6-168\,026\,l^2\,r^4\,R^6+88\,110\,r^6\,R^6+$$
$$6696\,l^4\,r\,R^7-104\,336\,l^2\,r^3\,R^7+107\,048\,r^5\,R^7+633\,l^4\,R^8-34\,866\,l^2\,r^2\,R^8+84\,761\,r^4\,R^8-$$
$$\left.\left.5064\,l^2\,r\,R^9+40\,776\,r^3\,R^9-260\,l^2\,R^{10}+10\,388\,r^2\,R^{10}+1040\,r\,R^{11}+36\,R^{12}\right)\right)\Big/$$
$$\left.\left(\left(l^2-r^2-4\,r\,R-3\,R^2\right)^2\left(l^4+2\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-8\,l^2\,R^2+24\,r^2\,R^2+32\,r\,R^3+13\,R^4\right)^2\right)\right\}$$

$$\left\{X22,\ \text{ExeterPoint},\ X94,\ \text{ISOGONAL CONJUGATE OF } X(50),\right.$$
$$\left(R^2\left(5\,l^{12}-70\,l^{10}\,r^2+251\,l^8\,r^4-372\,l^6\,r^6+251\,l^4\,r^8-70\,l^2\,r^{10}+5\,r^{12}-120\,l^{10}\,r\,R+1240\,l^8\,r^3\,R-\right.\right.$$
$$3248\,l^6\,r^5\,R+3248\,l^4\,r^7\,R-1240\,l^2\,r^9\,R+120\,r^{11}\,R-68\,l^{10}\,R^2+2028\,l^8\,r^2\,R^2-10\,816\,l^6\,r^4\,R^2+$$
$$17\,312\,l^4\,r^6\,R^2-9468\,l^2\,r^8\,R^2+1268\,r^{10}\,R^2+1360\,l^8\,r\,R^3-17\,696\,l^6\,r^3\,R^3+49\,440\,l^4\,r^5\,R^3-$$
$$40\,736\,l^2\,r^7\,R^3+7760\,r^9\,R^3+354\,l^8\,R^4-14\,624\,l^6\,r^2\,R^4+82\,044\,l^4\,r^4\,R^4-108\,448\,l^2\,r^6\,R^4+$$
$$30\,434\,r^8\,R^4-5664\,l^6\,r\,R^5+79\,136\,l^4\,r^3\,R^5-184\,608\,l^2\,r^5\,R^5+79\,904\,r^7\,R^5-828\,l^6\,R^6+$$
$$41\,436\,l^4\,r^2\,R^6-199\,708\,l^2\,r^4\,R^6+142\,332\,r^6\,R^6+9936\,l^4\,r\,R^7-130\,368\,l^2\,r^3\,R^7+170\,192\,r^5\,R^7+$$
$$\left.\left.729\,l^4\,R^8-45\,090\,l^2\,r^2\,R^8+131\,097\,r^4\,R^8-5832\,l^2\,r\,R^9+58\,824\,r^3\,R^9+11\,664\,r^2\,R^{10}\right)\right)\Big/$$
$$\left.\left(\left(l^2-r^2-4\,r\,R-3\,R^2\right)^2\left(l^4+2\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-12\,l^2\,R^2+28\,r^2\,R^2+48\,r\,R^3+27\,R^4\right)^2\right)\right\}$$

$$\left\{X22,\ \text{ExeterPoint},\ X95,\ \text{CEVAPOINT OF CENTROID AND CIRCUMCENTER},\right.$$
$$-\left(\left(R^2\left(l^{12}+98\,l^{10}\,r^2-257\,l^8\,r^4+316\,l^6\,r^6-257\,l^4\,r^8+98\,l^2\,r^{10}+r^{12}-24\,l^{10}\,r\,R-1544\,l^8\,r^3\,R+\right.\right.\right.$$
$$3600\,l^6\,r^5\,R-3600\,l^4\,r^7\,R+1544\,l^2\,r^9\,R+24\,r^{11}\,R-12\,l^{10}\,R^2-868\,l^8\,r^2\,R^2+12\,024\,l^6\,r^4\,R^2-$$
$$19\,224\,l^4\,r^6\,R^2+10\,132\,l^2\,r^8\,R^2+252\,r^{10}\,R^2+240\,l^8\,r\,R^3+11\,776\,l^6\,r^3\,R^3-47\,840\,l^4\,r^5\,R^3+$$
$$35\,840\,l^2\,r^7\,R^3+1520\,r^9\,R^3+48\,l^8\,R^4+2672\,l^6\,r^2\,R^4-57\,088\,l^4\,r^4\,R^4+73\,840\,l^2\,r^6\,R^4+5808\,r^8\,R^4-$$
$$768\,l^6\,r\,R^5-28\,288\,l^4\,r^3\,R^5+89\,216\,l^2\,r^5\,R^5+14\,592\,r^7\,R^5-64\,l^6\,R^6-4032\,l^4\,r^2\,R^6+60\,608\,l^2\,r^4\,R^6+$$
$$\left.\left.\left.24\,128\,r^6\,R^6+768\,l^4\,r\,R^7+21\,504\,l^2\,r^3\,R^7+25\,344\,r^5\,R^7+3840\,l^2\,r^2\,R^8+15\,360\,r^4\,R^8+4096\,r^3\,R^9\right)\right)\Big/$$
$$\left.\left.\left(\left(l^2-r^2-4\,r\,R-3\,R^2\right)^2\left(l^4+18\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-4\,l^2\,R^2+20\,r^2\,R^2+16\,r\,R^3\right)^2\right)\right)\right\}$$

$$\{X22, \text{ExeterPoint}, X96, \text{ISOGONAL CONJUGATE OF } X(52),$$
$$\Big(R^2 \big(7 l^{12} - 82 l^{10} r^2 + 249 l^8 r^4 - 348 l^6 r^6 + 249 l^4 r^8 - 82 l^2 r^{10} + 7 r^{12} - 168 l^{10} r R + 1480 l^8 r^3 R - 3472 l^6 r^5 R + 3472 l^4 r^7 R - 1480 l^2 r^9 R + 168 r^{11} R - 96 l^{10} R^2 + 2592 l^8 r^2 R^2 - 12624 l^6 r^4 R^2 + 19568 l^4 r^6 R^2 - 11472 l^2 r^8 R^2 + 1776 r^{10} R^2 + 1920 l^8 r R^3 - 21824 l^6 r^3 R^3 + 58240 l^4 r^5 R^3 - 49984 l^2 r^7 R^3 + 10880 r^9 R^3 + 540 l^8 R^4 - 19392 l^6 r^2 R^4 + 100680 l^4 r^4 R^4 - 134848 l^2 r^6 R^4 + 42780 r^8 R^4 - 8640 l^6 r R^5 + 102336 l^4 r^3 R^5 - 234432 l^2 r^5 R^5 + 113088 r^7 R^5 - 1552 l^6 R^6 + 59888 l^4 r^2 R^6 - 264560 l^2 r^4 R^6 + 204944 r^6 R^6 + 18624 l^4 r R^7 - 189056 l^2 r^3 R^7 + 255168 r^5 R^7 + 2384 l^4 R^8 - 81376 l^2 r^2 R^8 + 215120 r^4 R^8 - 19072 l^2 r R^9 + 118400 r^3 R^9 - 1856 l^2 R^{10} + 40000 r^2 R^{10} + 7424 r R^{11} + 576 R^{12}\big)\Big) \Big/ \Big(\big(l^2 - r^2 - 4 r R - 3 R^2\big)^2 \big(l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2 - 4 R^4\big)^2\Big)\}$$

$$\{X22, \text{ExeterPoint}, X97, \text{ISOGONAL CONJUGATE OF } X(53),$$
$$\Big(R^2 \big(l^{12} - 14 l^{10} r^2 + 63 l^8 r^4 - 100 l^6 r^6 + 63 l^4 r^8 - 14 l^2 r^{10} + r^{12} - 24 l^{10} r R + 248 l^8 r^3 R - 752 l^6 r^5 R + 752 l^4 r^7 R - 248 l^2 r^9 R + 24 r^{11} R - 14 l^{10} R^2 + 426 l^8 r^2 R^2 - 2360 l^6 r^4 R^2 + 3864 l^4 r^6 R^2 - 1914 l^2 r^8 R^2 + 254 r^{10} R^2 + 280 l^8 r R^3 - 3792 l^6 r^3 R^3 + 10928 l^4 r^5 R^3 - 8400 l^2 r^7 R^3 + 1560 r^9 R^3 + 73 l^8 R^4 - 3192 l^6 r^2 R^4 + 18222 l^4 r^4 R^4 - 22968 l^2 r^6 R^4 + 6153 r^8 R^4 - 1168 l^6 r R^5 + 17744 l^4 r^3 R^5 - 40272 l^2 r^5 R^5 + 16272 r^7 R^5 - 168 l^6 R^6 + 9240 l^4 r^2 R^6 - 44728 l^2 r^4 R^6 + 29192 r^6 R^6 + 2016 l^4 r R^7 - 29632 l^2 r^3 R^7 + 35040 r^5 R^7 + 144 l^4 R^8 - 10080 l^2 r^2 R^8 + 26896 r^4 R^8 - 1152 l^2 r R^9 + 11904 r^3 R^9 + 2304 r^2 R^{10}\big)\Big) \Big/ \Big(\big(l^2 - r^2 - 4 r R - 3 R^2\big)^2 \big(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 7 l^2 R^2 + 23 r^2 R^2 + 28 r R^3 + 12 R^4\big)^2\Big)\}$$

$$\Big\{X22, \text{ExeterPoint}, X98, \text{TarryPoint}, \frac{R^2 \big(l^2 - r^2 - 4 r R\big)^2 \big(3 l^4 - 10 l^2 r^2 + 3 r^4 - 24 l^2 r R + 24 r^3 R - 20 l^2 R^2 + 68 r^2 R^2 + 80 r R^3 + 36 R^4\big)}{\big(l^2 - r^2 - 4 r R - 3 R^2\big)^2 \big(l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\big)}\Big\}$$

$$\{X22, \text{ExeterPoint}, X99, \text{STEINER POINT},$$
$$-\Big(\big(R^2 \big(l^8 + 16 l^6 r^2 - 34 l^4 r^4 + 16 l^2 r^6 + r^8 - 16 l^6 r R - 112 l^4 r^3 R + 112 l^2 r^5 R + 16 r^7 R - 4 l^6 R^2 - 84 l^4 r^2 R^2 + 308 l^2 r^4 R^2 + 100 r^6 R^2 + 48 l^4 r R^3 + 416 l^2 r^3 R^3 + 304 r^5 R^3 + 240 l^2 r^2 R^4 + 448 r^4 R^4 + 256 r^3 R^5\big)\big) \Big/ \big(\big(l^2 - r^2 - 4 r R - 3 R^2\big)^2 \big(l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\big)\big)\Big)\}$$

$$\Big\{X22, \text{ExeterPoint}, X100, \text{ANTICOMPLEMENT OF FEUERBACH POINT}, \frac{R^2 \big(2 l^4 r - 4 l^2 r^3 + 2 r^5 + l^4 R - 22 l^2 r^2 R + 21 r^4 R - 28 l^2 r R^2 + 76 r^3 R^2 - 4 l^2 R^3 + 112 r^2 R^3 + 64 r R^4\big)}{(2 r - R) \big(-l^2 + r^2 + 4 r R + 3 R^2\big)^2}\Big\}$$

$$\Big\{X23, \text{FarOutPoint}, X24, \text{PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE}, -\frac{R^4 \big(l^2 - r^2 - 4 r R - 6 R^2\big)^2}{\big(2 l^2 - 2 r^2 - 8 r R - 9 R^2\big) \big(l^2 - r^2 - 4 r R - 5 R^2\big)^2}\Big\}$$

$$\Big\{X23, \text{FarOutPoint}, X25, \text{HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES}, -\frac{R^4 \big(l^2 - r^2 - 4 r R\big)^2}{\big(2 l^2 - 2 r^2 - 8 r R - 9 R^2\big) \big(l^2 - r^2 - 4 r R - 6 R^2\big)^2}\Big\}$$

$$\Big\{X23, \text{FarOutPoint}, X26, \text{CIRCUMCENTER OF THE TANGENTIAL TRIANGLE}, -\frac{R^4 \big(l^2 - r^2 - 4 r R - 3 R^2\big)^2}{(l - r - 2 R)^2 (l + r + 2 R)^2 \big(2 l^2 - 2 r^2 - 8 r R - 9 R^2\big)}\Big\}$$

$$\Big\{X23, \text{FarOutPoint}, X27, \text{CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER}, -\frac{4 \big(l^4 - r^4 - 8 r^3 R - 2 l^2 R^2 - 20 r^2 R^2 - 16 r R^3\big)^2}{\big(l^2 - 3 r^2 - 12 r R - 12 R^2\big)^2 \big(2 l^2 - 2 r^2 - 8 r R - 9 R^2\big)}\Big\}$$

$$\left\{X23,\ \text{FarOutPoint},\ X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),\ -\frac{R^2\left(2 l^2 r-2 r^3+l^2 R-9 r^2 R-10 r R^2\right)^2}{\left(2 l^2-2 r^2-8 r R-9 R^2\right)\left(l^2-r^2-5 r R-6 R^2\right)^2}\right\}$$

$$\left\{X23,\ \text{FarOutPoint},\ X29,\ \text{CEVAPOINT OF INCENTER AND ORTHOCENTER},\ -\frac{4\left(l^4-r^4-4 l^2 r R-4 r^3 R-4 l^2 R^2-2 r^2 R^2+4 r R^3\right)^2}{\left(3 l^2-r^2-8 r R-12 R^2\right)^2\left(2 l^2-2 r^2-8 r R-9 R^2\right)}\right\}$$

$$\{X23,\ \text{FarOutPoint},\ X30,\ \text{EulerInfinityPoint},\ \infty\}$$

$$\left\{X23,\ \text{FarOutPoint},\ X31,\ \text{SecondPowerPoint},\ -\frac{R^2\left(l^6+19 l^4 r^2-45 l^2 r^4+r^6-16 l^4 r R-72 l^2 r^3 R+8 r^5 R+16 r^4 R^2\right)}{\left(l^2-3 r^2-6 r R\right)^2\left(2 l^2-2 r^2-8 r R-9 R^2\right)}\right\}$$

$$\{X23,\ \text{FarOutPoint},\ X32,\ \text{ThirdPowerPoint},\ -\left(\left(R^2\left(l^{10}+19 l^8 r^2-110 l^6 r^4+110 l^4 r^6-19 l^2 r^8-r^{10}-20 l^8 r R-208 l^6 r^3 R+648 l^4 r^5 R-208 l^2 r^7 R-20 r^9 R+52 l^6 r^2 R^2+1032 l^4 r^4 R^2-780 l^2 r^6 R^2-160 r^8 R^2+224 l^4 r^3 R^3-1120 l^2 r^5 R^3-640 r^7 R^3-448 l^2 r^4 R^4-1280 r^6 R^4-1024 r^5 R^5\right)\right)/\left(\left(l^2-2 l r-r^2-4 r R\right)^2\left(l^2+2 l r-r^2-4 r R\right)^2\left(2 l^2-2 r^2-8 r R-9 R^2\right)\right)\right)\right\}$$

$$\{X23,\ \text{FarOutPoint},\ X33,\ \text{PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES},\ -\left(\left(R\left(8 l^6 r-16 l^4 r^3+8 l^2 r^5+l^6 R-69 l^4 r^2 R+71 l^2 r^4 R-3 r^6 R-84 l^4 r R^2+256 l^2 r^3 R^2-44 r^5 R^2-8 l^4 R^3+440 l^2 r^2 R^3-240 r^4 R^3+272 l^2 r R^4-592 r^3 R^4+16 l^2 R^5-640 r^2 R^5-256 r R^6\right)\right)/\left(\left(2 l^2-2 r^2-8 r R-9 R^2\right)\left(l^2-r^2-2 r R-4 R^2\right)^2\right)\right)\right\}$$

$$\{X23,\ \text{FarOutPoint},\ X34,\ X(4)\text{-BETH CONJUGATE OF } X(4),\ -\left(\left(R\left(-8 l^4 r^3+16 l^2 r^5-8 r^7+l^6 R+11 l^4 r^2 R+39 l^2 r^4 R-51 r^6 R-28 l^4 r R^2-100 r^5 R^2-8 l^4 R^3+104 l^2 r^2 R^3-96 r^4 R^3+176 l^2 r R^4-240 r^3 R^4+16 l^2 R^5-448 r^2 R^5-256 r R^6\right)\right)/\left(\left(2 l^2-2 r^2-8 r R-9 R^2\right)\left(l^2-r^2-6 r R-4 R^2\right)^2\right)\right)\right\}$$

$$\left\{X23,\ \text{FarOutPoint},\ X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),\ \frac{R^3\left(10 l^2 r+2 r^3+l^2 R+13 r^2 R-16 r R^2\right)}{(2 r+R)^2\left(-2 l^2+2 r^2+8 r R+9 R^2\right)}\right\}$$

$$\left\{X23,\ \text{FarOutPoint},\ X36,\ \text{INVERSE-IN-CIRCUMCIRCLE OF INCENTER},\ -\frac{R^3\left(l^2+5 r^2-16 r R\right)}{(2 r-R)\left(-2 l^2+2 r^2+8 r R+9 R^2\right)}\right\}$$

$$\{X23,\ \text{FarOutPoint},\ X37,\ \text{CrosspointOfIncenterAndCentroid},\ -\left(\left(R\left(8 l^6 r-16 l^4 r^3+8 l^2 r^5+l^6 R-39 l^4 r^2 R+39 l^2 r^4 R-r^6 R-20 l^4 r R^2+72 l^2 r^3 R^2-12 r^5 R^2+68 l^2 r^2 R^3-48 r^4 R^3-64 r^3 R^4\right)\right)/\left(\left(l^2+r^2+4 r R\right)^2\left(2 l^2-2 r^2-8 r R-9 R^2\right)\right)\right)\right\}$$

$$\{X23,\ \text{FarOutPoint},\ X38,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(75),\ -\left(\left(R\left(8 l^6 r-40 l^4 r^3+56 l^2 r^5-24 r^7+l^6 R-109 l^4 r^2 R+339 l^2 r^4 R-255 r^6 R-32 l^4 r R^2+648 l^2 r^3 R^2-952 r^5 R^2+320 l^2 r^2 R^3-1520 r^4 R^3-1024 r^3 R^4\right)\right)/\left(\left(l^2+r^2-2 r R\right)^2\left(2 l^2-2 r^2-8 r R-9 R^2\right)\right)\right)\right\}$$

$$\{X23,\ \text{FarOutPoint},\ X39,\ \text{BrocardMidpoint},\ -\left(\left(R^2\left(l^{10}+43 l^8 r^2-86 l^6 r^4+86 l^4 r^6-43 l^2 r^8-r^{10}-20 l^8 r R-496 l^6 r^3 R+840 l^4 r^5 R-496 l^2 r^7 R-20 r^9 R+52 l^6 r^2 R^2+2184 l^4 r^4 R^2-1932 l^2 r^6 R^2-160 r^8 R^2+224 l^4 r^3 R^3-2656 l^2 r^5 R^3-640 r^7 R^3-448 l^2 r^4 R^4-1280 r^6 R^4-1024 r^5 R^5\right)\right)/\left(\left(2 l^2-2 r^2-8 r R-9 R^2\right)\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)^2\right)\right)\right\}$$

$$\left\{X23,\ \text{FarOutPoint},\ X40,\ \text{BEVAN POINT},\ -\frac{R\left(4 l^2 r-4 r^3-5 l^2 R-17 r^2 R-4 r R^2+36 R^3\right)}{2 l^2-2 r^2-8 r R-9 R^2}\right\}$$

$$\{X23, \text{FarOutPoint}, X41, X(6)\text{-CEVA CONJUGATE OF } X(31),$$
$$\left(R^2\left(l^6 r^2 - 45 l^4 r^4 + 19 l^2 r^6 + r^8 - 196 l^4 r^3 R + 208 l^2 r^5 R + 20 r^7 R - 4 l^6 R^2 - 200 l^4 r^2 R^2 + 780 l^2 r^4 R^2 + 160 r^6 R^2 + 32 l^4 r R^3 + 1120 l^2 r^3 R^3 + 640 r^5 R^3 + 448 l^2 r^2 R^4 + 1280 r^4 R^4 + 1024 r^3 R^5\right)\right) / \left(\left(2 l^2 - 2 r^2 - 8 r R - 9 R^2\right)\left(3 l^2 r - r^3 + 2 l^2 R - 8 r^2 R - 16 r R^2\right)^2\right)\}$$

$$\{X23, \text{FarOutPoint}, X42, \text{CROSSPOINT OF INCENTER AND SYMMEDIAN POINT},$$
$$-\frac{R^2\left(l^6 + 47 l^4 r^2 - 21 l^2 r^4 - 3 r^6 - 8 l^4 r R - 112 l^2 r^3 R - 40 r^5 R - 112 l^2 r^2 R^2 - 176 r^4 R^2 - 256 r^3 R^3\right)}{\left(l^2 + r^2 - 2 r R\right)^2\left(2 l^2 - 2 r^2 - 8 r R - 9 R^2\right)}\}$$

$$\{X23, \text{FarOutPoint}, X43, X(6)\text{-CEVA CONJUGATE OF } X(1),$$
$$\left(R\left(4 l^6 r + 4 l^4 r^3 - 4 l^2 r^5 - 4 r^7 - l^6 R - 103 l^4 r^2 R + 85 l^2 r^4 R - 69 r^6 R + 8 l^4 r R^2 + 432 l^2 r^3 R^2 - 344 r^5 R^2 + 112 l^2 r^2 R^3 - 464 r^4 R^3 + 256 r^3 R^4\right)\right) / \left(\left(l^2 + r^2 - 8 r R\right)^2\left(2 l^2 - 2 r^2 - 8 r R - 9 R^2\right)\right)\}$$

$$\{X23, \text{FarOutPoint}, X44, X(6)\text{-LINE CONJUGATE OF } X(1),$$
$$\left(R\left(8 l^6 r + 16 l^4 r^3 - 24 l^2 r^5 - l^6 R - 169 l^4 r^2 R + 81 l^2 r^4 R + 9 r^6 R + 4 l^4 r R^2 + 504 l^2 r^3 R^2 + 108 r^5 R^2 + 156 l^2 r^2 R^3 + 432 r^4 R^3 + 576 r^3 R^4\right)\right) / \left(\left(l^2 - 3 r^2 - 12 r R\right)^2\left(2 l^2 - 2 r^2 - 8 r R - 9 R^2\right)\right)\}$$

$$\{X23, \text{FarOutPoint}, X45, X(9)\text{-BETH CONJUGATE OF } X(1),$$
$$-\left(\left(R\left(16 l^6 r - 64 l^4 r^3 + 48 l^2 r^5 + l^6 R - 47 l^4 r^2 R + 135 l^2 r^4 R - 9 r^6 R - 28 l^4 r R^2 + 72 l^2 r^3 R^2 - 108 r^5 R^2 + 228 l^2 r^2 R^3 - 432 r^4 R^3 - 576 r^3 R^4\right)\right) / \left(\left(l^2 + 3 r^2 + 12 r R\right)^2\left(2 l^2 - 2 r^2 - 8 r R - 9 R^2\right)\right)\right)\}$$

$$\{X23, \text{FarOutPoint}, X46, X(4)\text{-CEVA CONJUGATE OF } X(1),$$
$$-\frac{R\left(-4 l^2 r^3 + 4 r^5 - 3 l^2 r^2 R + 25 r^4 R + 36 r^3 R^2 - l^2 R^3 - 5 r^2 R^3 + 16 r R^4\right)}{(r - R)^2\left(-2 l^2 + 2 r^2 + 8 r R + 9 R^2\right)}\}$$

$$\{X23, \text{FarOutPoint}, X47, X(110)\text{-BETH CONJUGATE OF } X(34),$$
$$-\left(\left(R^2\left(l^6 + 19 l^4 r^2 - 45 l^2 r^4 + r^6 - 24 l^4 r R - 72 l^2 r^3 R + 16 r^5 R - 4 l^4 R^2 + 16 l^2 r^2 R^2 + 68 r^4 R^2 + 80 l^2 r R^3 + 64 r^3 R^3 + 4 l^2 R^4 - 44 r^2 R^4 - 64 r R^5\right)\right) / \left(\left(2 l^2 - 2 r^2 - 8 r R - 9 R^2\right)\left(l^2 - 3 r^2 - 6 r R - 2 R^2\right)^2\right)\right)\}$$

$$\{X23, \text{FarOutPoint}, X48, \text{CROSSPOINT OF } X(1) \text{ AND } X(63),$$
$$\left(R^2\left(l^6 - 45 l^4 r^2 + 19 l^2 r^4 + r^6 - 40 l^4 r R + 104 l^2 r^3 R + 16 r^5 R - 4 l^4 R^2 + 144 l^2 r^2 R^2 + 100 r^4 R^2 + 16 l^2 r R^3 + 304 r^3 R^3 - 16 l^2 R^4 + 448 r^2 R^4 + 256 r R^5\right)\right) / \left(\left(2 l^2 - 2 r^2 - 8 r R - 9 R^2\right)\left(3 l^2 - r^2 - 6 r R - 8 R^2\right)^2\right)\}$$

$$\{X23, \text{FarOutPoint}, X49, \text{CENTER OF SINE-TRIPLE-ANGLE CIRCLE},$$
$$-\left(\left(R^2\left(32 l^4 r^2 - 32 l^2 r^4 - 128 l^2 r^3 R - 2 l^4 R^2 - 116 l^2 r^2 R^2 - 2 r^4 R^2 + 16 l^2 r R^3 - 16 r^3 R^3 + 6 l^2 R^4 - 38 r^2 R^4 - 24 r R^5 + 9 R^6\right)\right) / \left(\left(2 l^2 - 2 r^2 - 8 r R - 9 R^2\right)\left(2 l^2 - 2 r^2 - 8 r R - 7 R^2\right)^2\right)\right)\}$$

$$\{X23, \text{FarOutPoint}, X50, X(74)\text{-CEVA CONJUGATE OF } X(184),$$
$$-\left(\left(R^2\left(l^{10} + 19 l^8 r^2 - 110 l^6 r^4 + 110 l^4 r^6 - 19 l^2 r^8 - r^{10} - 20 l^8 r R - 208 l^6 r^3 R + 648 l^4 r^5 R - 208 l^2 r^7 R - 20 r^9 R - 6 l^8 R^2 - 104 l^6 r^2 R^2 + 1500 l^4 r^4 R^2 - 936 l^2 r^6 R^2 - 166 r^8 R^2 + 96 l^6 r R^3 + 1376 l^4 r^3 R^3 - 2272 l^2 r^5 R^3 - 736 r^7 R^3 + 9 l^6 R^4 + 369 l^4 r^2 R^4 - 3121 l^2 r^4 R^4 - 1865 r^6 R^4 - 108 l^4 r R^5 - 2136 l^2 r^3 R^5 - 2668 r^5 R^5 - 540 l^2 r^2 R^6 - 1968 r^4 R^6 - 576 r^3 R^7\right)\right) / \left(\left(2 l^2 - 2 r^2 - 8 r R - 9 R^2\right)\left(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 3 l^2 R^2 + 19 r^2 R^2 + 12 r R^3\right)^2\right)\right)\}$$

$$\{X23, \text{FarOutPoint}, X51, \text{CENTROID OF ORTHIC TRIANGLE},$$
$$\left(2 l^6 + 34 l^4 r^2 - 34 l^2 r^4 - 2 r^6 - 24 l^4 r R - 112 l^2 r^3 R - 24 r^5 R + l^4 R^2 - 14 l^2 r^2 R^2 - 95 r^4 R^2 - 8 l^2 r R^3 - 120 r^3 R^3 + 16 r^2 R^4\right) / \left(36 R^2\left(-2 l^2 + 2 r^2 + 8 r R + 9 R^2\right)\right)\}$$

$$\{X23, \text{FarOutPoint}, X52, \text{ORTHOCENTER OF ORTHIC TRIANGLE},$$
$$\left(-2 l^6 + 30 l^4 r^2 - 30 l^2 r^4 + 2 r^6 + 24 l^4 r R - 144 l^2 r^3 R + 24 r^5 R + 15 l^4 R^2 - 210 l^2 r^2 R^2 + 111 r^4 R^2 - 120 l^2 r R^3 + 248 r^3 R^3 - 36 l^2 R^4 + 276 r^2 R^4 + 144 r R^5 + 36 R^6\right) / \left(4 R^2\left(-2 l^2 + 2 r^2 + 8 r R + 9 R^2\right)\right)\}$$

$$\{X23, FarOutPoint, X53, SYMMEDIAN\ POINT\ OF\ ORTHIC\ TRIANGLE,$$
$$\left(8 l^{10} r^2 - 64 l^8 r^4 + 112 l^6 r^6 - 64 l^4 r^8 + 8 l^2 r^{10} - 128 l^8 r^3 R + 640 l^6 r^5 R - 640 l^4 r^7 R + 128 l^2 r^9 R - l^{10} R^2 - 87 l^8 r^2 R^2 + 1194 l^6 r^4 R^2 - 2474 l^4 r^6 R^2 + 855 l^2 r^8 R^2 + r^{10} R^2 + 20 l^8 r R^3 + 1024 l^6 r^3 R^3 - 4776 l^4 r^5 R^3 + 3072 l^2 r^7 R^3 + 20 r^9 R^3 + 8 l^8 R^4 + 300 l^6 r^2 R^4 - 5064 l^4 r^4 R^4 + 6444 l^2 r^6 R^4 + 168 r^8 R^4 - 128 l^6 r R^5 - 2912 l^4 r^3 R^5 + 8160 l^2 r^5 R^5 + 768 r^7 R^5 - 16 l^6 R^6 - 624 l^4 r^2 R^6 + 6448 l^2 r^4 R^6 + 2064 r^6 R^6 + 192 l^4 r R^7 + 3328 l^2 r^3 R^7 + 3264 r^5 R^7 + 960 l^2 r^2 R^8 + 2816 r^4 R^8 + 1024 r^3 R^9\right) \Big/ \left(\left(2 l^2 - 2 r^2 - 8 r R - 9 R^2\right) \left(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 4 l^2 R^2 + 20 r^2 R^2 + 16 r R^3\right)^2\right)\}$$

$$\{X23, FarOutPoint, X54, KosnitaPoint,$$
$$-\left(\left(R^2 \left(2 l^6 + 34 l^4 r^2 - 34 l^2 r^4 - 2 r^6 - 24 l^4 r R - 112 l^2 r^3 R - 24 r^5 R - 5 l^4 R^2 - 26 l^2 r^2 R^2 - 101 r^4 R^2 + 40 l^2 r R^3 - 168 r^3 R^3 - 12 l^2 R^4 - 68 r^2 R^4 + 48 r R^5 + 36 R^6\right)\right) \Big/ \left(\left(2 l^2 - 2 r^2 - 8 r R - 9 R^2\right) \left(2 l^2 - 2 r^2 - 8 r R - 5 R^2\right)^2\right)\right)\}$$

$$\{X23, FarOutPoint, X55, INSIMILICENTER(CIRCUMCIRCLE, INCIRCLE),$$
$$-\frac{R^3 \left(-7 l^2 r + r^3 - l^2 R + 8 r^2 R + 16 r R^2\right)}{(r + R)^2 \left(-2 l^2 + 2 r^2 + 8 r R + 9 R^2\right)}\}$$

$$\{X23, FarOutPoint, X56, EXSIMILICENTER(CIRCUMCIRCLE, INCIRCLE),$$
$$-\frac{R^3 \left(-l^2 r + 7 r^3 - l^2 R - 4 r^2 R + 16 r R^2\right)}{(r - R)^2 \left(-2 l^2 + 2 r^2 + 8 r R + 9 R^2\right)}\}$$

$$\{X23, FarOutPoint, X57, ISOGONAL\ CONJUGATE\ OF\ X(9),$$
$$-\frac{R \left(-4 l^2 r^3 + 4 r^5 - 11 l^2 r^2 R + 33 r^4 R - 8 l^2 r R^2 + 76 r^3 R^2 - 4 l^2 R^3 + 48 r^2 R^3 + 64 r R^4\right)}{(r - 2 R)^2 \left(-2 l^2 + 2 r^2 + 8 r R + 9 R^2\right)}\}$$

$$\{X23, FarOutPoint, X58, ISOGONAL\ CONJUGATE\ OF\ X(10),$$
$$-\frac{R^2 \left(l^6 + 27 l^4 r^2 - 45 l^2 r^4 - 7 r^6 - 12 l^4 r R - 72 l^2 r^3 R - 60 r^5 R - 60 l^2 r^2 R^2 - 108 r^4 R^2 - 64 r^3 R^3\right)}{\left(l^2 - 3 r^2 - 4 r R\right)^2 \left(2 l^2 - 2 r^2 - 8 r R - 9 R^2\right)}\}$$

$$\{X23, FarOutPoint, X59, ISOGONAL\ CONJUGATE\ OF\ X(11),$$
$$-\left(\left(R^2 \left(-l^6 r - 17 l^4 r^3 + 17 l^2 r^5 + r^7 + l^6 R + 40 l^4 r^2 R + 37 l^2 r^4 R + 14 r^6 R - 20 l^4 r R^2 - 92 l^2 r^3 R^2 + 72 r^5 R^2 - 8 l^4 R^3 - 76 l^2 r^2 R^3 + 156 r^4 R^3 + 160 l^2 r R^4 + 80 r^3 R^4 + 16 l^2 R^5 - 192 r^2 R^5 - 256 r R^6\right)\right) \Big/ \left((2 r - R) \left(-l^2 + r^2 + 5 r R + 4 R^2\right)^2 \left(-2 l^2 + 2 r^2 + 8 r R + 9 R^2\right)\right)\right)\}$$

$$\{X23, FarOutPoint, X60, ISOGONAL\ CONJUGATE\ OF\ X(12),$$
$$-\left(\left(R^2 \left(2 l^6 r^2 + 34 l^4 r^4 - 34 l^2 r^6 - 2 r^8 + 3 l^6 r R + 49 l^4 r^3 R - 167 l^2 r^5 R - 21 r^7 R + l^6 R^2 + 4 l^4 r^2 R^2 - 315 l^2 r^4 R^2 - 78 r^6 R^2 - 12 l^4 r R^3 - 236 l^2 r^3 R^3 - 144 r^5 R^3 - 60 l^2 r^2 R^4 - 140 r^4 R^4 - 64 r^3 R^5\right)\right) \Big/ \left(\left(2 l^2 - 2 r^2 - 8 r R - 9 R^2\right) \left(2 l^2 r - 2 r^3 + l^2 R - 7 r^2 R - 7 r R^2\right)^2\right)\right)\}$$

$$\{X23, FarOutPoint, X61, ISOGONAL\ CONJUGATE\ OF\ X(17),$$
$$\left(9 R^2 \left(-l^6 - 2 \sqrt{3}\, l^5 r - 33 l^4 r^2 - 4 \sqrt{3}\, l^3 r^3 + 33 l^2 r^4 - 2 \sqrt{3}\, l r^5 + r^6 + 12 l^4 r R + 16 \sqrt{3}\, l^3 r^2 R + 120 l^2 r^3 R - 16 \sqrt{3}\, l r^4 R + 12 r^5 R + 48 l^2 r^2 R^2 - 32 \sqrt{3}\, l r^3 R^2 + 48 r^4 R^2 + 64 r^3 R^3\right)\right) \Big/ \left(\left(3 l^2 + 2 \sqrt{3}\, l r - 3 r^2 - 12 r R\right)^2 \left(2 l^2 - 2 r^2 - 8 r R - 9 R^2\right)\right)\}$$

$$\{X23, FarOutPoint, X62, ISOGONAL\ CONJUGATE\ OF\ X(18),$$
$$\left(9 R^2 \left(-l^6 + 2 \sqrt{3}\, l^5 r - 33 l^4 r^2 + 4 \sqrt{3}\, l^3 r^3 + 33 l^2 r^4 + 2 \sqrt{3}\, l r^5 + r^6 + 12 l^4 r R - 16 \sqrt{3}\, l^3 r^2 R + 120 l^2 r^3 R + 16 \sqrt{3}\, l r^4 R + 12 r^5 R + 48 l^2 r^2 R^2 + 32 \sqrt{3}\, l r^3 R^2 + 48 r^4 R^2 + 64 r^3 R^3\right)\right) \Big/ \left(\left(3 l^2 - 2 \sqrt{3}\, l r - 3 r^2 - 12 r R\right)^2 \left(2 l^2 - 2 r^2 - 8 r R - 9 R^2\right)\right)\}$$

$$\{X23, FarOutPoint, X63, ISOGONAL\ CONJUGATE\ OF\ X(19),$$
$$-\frac{R \left(2 l^4 r - 4 l^2 r^3 + 2 r^5 - 15 l^2 r^2 R + 21 r^4 R - 24 l^2 r R^2 + 76 r^3 R^2 - 4 l^2 R^3 + 112 r^2 R^3 + 64 r R^4\right)}{(r + R)^2 \left(-2 l^2 + 2 r^2 + 8 r R + 9 R^2\right)}\}$$

$$\{X23,\ \text{FarOutPoint},\ X64,\ \text{ISOGONAL CONJUGATE OF } X(20),\ \left(R^2\left(13 l^6-19 l^4 r^2+19 l^2 r^4-13 r^6-156 l^4 r R+232 l^2 r^3 R-156 r^5 R-244 l^4 R^2+1028 l^2 r^2 R^2-868 r^4 R^2+1952 l^2 r R^3-2784 r^3 R^3+1344 l^2 R^4-5248 r^2 R^4-5376 r R^5-2304 R^6\right)\right)\Big/\left((l-r-2R)^2(l+r+2R)^2\left(2l^2-2r^2-8rR-9R^2\right)\right)\}$$

$$\{X23,\ \text{FarOutPoint},\ X65,\ \text{ORTHOCENTER OF THE INTOUCH TRIANGLE},\ -\frac{-4 l^2 r^3+4 r^5-6 l^2 r^2 R+22 r^4 R-3 l^2 r R^2+39 r^3 R^2-l^2 R^3+28 r^2 R^3+16 r R^4}{R\left(-2 l^2+2 r^2+8 r R+9 R^2\right)}\}$$

$$\{X23,\ \text{FarOutPoint},\ X66,\ \text{ISOGONAL CONJUGATE OF } X(22),\ -\left(\left(2 l^{12}-20 l^{10} r^2+62 l^8 r^4-88 l^6 r^6+62 l^4 r^8-20 l^2 r^{10}+2 r^{12}-48 l^{10} r R+368 l^8 r^3 R-864 l^6 r^5 R+864 l^4 r^7 R-368 l^2 r^9 R+48 r^{11} R-16 l^{10} R^2+640 l^8 r^2 R^2-3088 l^6 r^4 R^2+4816 l^4 r^6 R^2-2848 l^2 r^8 R^2+496 r^{10} R^2+320 l^8 r R^3-4800 l^6 r^3 R^3+13568 l^4 r^5 R^3-11968 l^2 r^7 R^3+2880 r^9 R^3+31 l^8 R^4-2992 l^6 r^2 R^4+20002 l^4 r^4 R^4-29360 l^2 r^6 R^4+10271 r^8 R^4-496 l^6 r R^5+14192 l^4 r^3 R^5-41840 l^2 r^5 R^5+23024 r^7 R^5+4 l^6 R^6+3540 l^4 r^2 R^6-31924 l^2 r^4 R^6+31644 r^6 R^6-48 l^4 r R^7-10144 l^2 r^3 R^7+24272 r^5 R^7-240 l^2 r^2 R^8+7744 r^4 R^8-256 r^3 R^9\right)\Big/\left((l-r-2R)^2(l+r+2R)^2\left(l^2-r^2-4rR\right)^2\left(2l^2-2r^2-8rR-9R^2\right)\right)\right)\}$$

$$\{X23,\ \text{FarOutPoint},\ X67,\ \text{ISOGONAL CONJUGATE OF } X(23),\ -\frac{1}{\left(l^2-r^2-4rR\right)^2\left(2l^2-2r^2-8rR-9R^2\right)^2}\left(2 l^{10}-34 l^8 r^2+92 l^6 r^4-92 l^4 r^6+34 l^2 r^8-2 r^{10}-40 l^8 r R+448 l^6 r^3 R-816 l^4 r^5 R+448 l^2 r^7 R-40 r^9 R-6 l^8 R^2+560 l^6 r^2 R^2-2580 l^4 r^4 R^2+2352 l^2 r^6 R^2-326 r^8 R^2+96 l^6 r R^3-3296 l^4 r^3 R^3+6112 l^2 r^5 R^3-1376 r^7 R^3-9 l^6 R^4-1305 l^4 r^2 R^4+7897 l^2 r^4 R^4-3127 r^6 R^4+108 l^4 r R^5+4344 l^2 r^3 R^5-3476 r^5 R^5+540 l^2 r^2 R^6-1104 r^4 R^6+576 r^3 R^7\right)\}$$

$$\{X23,\ \text{FarOutPoint},\ X68,\ \text{PRASOLOV POINT},\ -\frac{1}{(l-r-2R)^2(l+r+2R)^2\left(2l^2-2r^2-8rR-9R^2\right)}\left(2 l^8-16 l^6 r^2+28 l^4 r^4-16 l^2 r^6+2 r^8-32 l^6 r R+160 l^4 r^3 R-160 l^2 r^5 R+32 r^7 R-20 l^6 R^2+316 l^4 r^2 R^2-636 l^2 r^4 R^2+212 r^6 R^2+240 l^4 r R^3-1248 l^2 r^3 R^3+752 r^5 R^3+67 l^4 R^4-1226 l^2 r^2 R^4+1539 r^4 R^4-536 l^2 r R^5+1816 r^3 R^5-84 l^2 R^6+1156 r^2 R^6+336 r R^7+36 R^8\right)\}$$

$$\{X23,\ \text{FarOutPoint},\ X69,\ \text{SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},\ \left(4\left(4 l^6 r^2-8 l^4 r^4+4 l^2 r^6-32 l^4 r^3 R+32 l^2 r^5 R-l^6 R^2-33 l^4 r^2 R^2+97 l^2 r^4 R^2+r^6 R^2+12 l^4 r R^3+120 l^2 r^3 R^3+12 r^5 R^3+60 l^2 r^2 R^4+48 r^4 R^4+64 r^3 R^5\right)\right)\Big/\left(\left(l^2-r^2-4rR\right)^2\left(2l^2-2r^2-8rR-9R^2\right)\right)\}$$

$$\{X23,\ \text{FarOutPoint},\ X70,\ \text{ISOGONAL CONJUGATE OF } X(26),\ -\left(\left(2 l^{12}-20 l^{10} r^2+62 l^8 r^4-88 l^6 r^6+62 l^4 r^8-20 l^2 r^{10}+2 r^{12}-48 l^{10} r R+368 l^8 r^3 R-864 l^6 r^5 R+864 l^4 r^7 R-368 l^2 r^9 R+48 r^{11} R-26 l^{10} R^2+714 l^8 r^2 R^2-3260 l^6 r^4 R^2+4988 l^4 r^6 R^2-2922 l^2 r^8 R^2+506 r^{10} R^2+520 l^8 r R^3-5888 l^6 r^3 R^3+15344 l^4 r^5 R^3-13056 l^2 r^7 R^3+3080 r^9 R^3+127 l^8 R^4-5184 l^6 r^2 R^4+26946 l^4 r^4 R^4-35904 l^2 r^6 R^4+11967 r^8 R^4-2032 l^6 r R^5+26864 l^4 r^3 R^5-62448 l^2 r^5 R^5+30960 r^7 R^5-294 l^6 R^6+14250 l^4 r^2 R^6-67978 l^2 r^4 R^6+53958 r^6 R^6+3528 l^4 r R^7-44272 l^2 r^3 R^7+62664 r^5 R^7+339 l^4 R^8-15834 l^2 r^2 R^8+46963 r^4 R^8-2712 l^2 r R^9+21528 r^3 R^9-180 l^2 R^{10}+5604 r^2 R^{10}+720 r R^{11}+36 R^{12}\right)\Big/\left(\left(2l^2-2r^2-8rR-9R^2\right)\left(l^4-2l^2r^2+r^4-8l^2rR+8r^3R-6l^2R^2+22r^2R^2+24rR^3+7R^4\right)^2\right)\right)\}$$

$$\{X23,\ \text{FarOutPoint},\ X71,\ \text{ISOGONAL CONJUGATE OF } X(27),\ \left(R^2\left(13 l^6-21 l^4 r^2+31 l^2 r^4+r^6-112 l^4 r R+224 l^2 r^3 R+16 r^5 R-148 l^4 R^2+528 l^2 r^2 R^2+100 r^4 R^2+400 l^2 r R^3+304 r^3 R^3-16 l^2 R^4+448 r^2 R^4+256 r R^5\right)\right)\Big/\left(\left(2l^2-2r^2-8rR-9R^2\right)\left(l^2+r^2+6rR+8R^2\right)^2\right)\}$$

$$\{X23,\ \text{FarOutPoint},\ X72,\ \text{ISOGONAL CONJUGATE OF } X(28),\ -\frac{2 l^4 r-4 l^2 r^3+2 r^5-18 l^2 r^2 R+18 r^4 R-18 l^2 r R^2+64 r^3 R^2-4 l^2 R^3+103 r^2 R^3+64 r R^4}{R\left(-2 l^2+2 r^2+8 r R+9 R^2\right)}\}$$

$$\{X23, FarOutPoint, X73, CROSSPOINT\ OF\ INCENTER\ AND\ CIRCUMCENTER,$$
$$-\left(\left(R^2\left(l^6+31 l^4 r^2-21 l^2 r^4+13 r^6-20 l^4 r R-168 l^2 r^3 R+108 r^5 R-8 l^4 R^2-136 l^2 r^2 R^2+384 r^4 R^2+144 l^2 r R^3+528 r^3 R^3+16 l^2 R^4+64 r^2 R^4-256 r R^5\right)\right)\Big/\left(\left(2 l^2-2 r^2-8 r R-9 R^2\right)\left(l^2+r^2-2 r R-4 R^2\right)^2\right)\right)\}$$

$$\{X23, FarOutPoint, X74, ISOGONAL\ CONJUGATE\ OF\ EULER\ INFINITY\ POINT,$$
$$\frac{R^2\left(7 l^4-2 l^2 r^2+7 r^4-56 l^2 r R+56 r^3 R-108 l^2 R^2+220 r^2 R^2+432 r R^3+324 R^4\right)}{\left(2 l^2-2 r^2-8 r R-9 R^2\right)^2}\}$$

$$\{X23, FarOutPoint, X75, ISOTOMIC\ CONJUGATE\ OF\ INCENTER,$$
$$-\left(\left(4 R\left(4 l^6 r-16 l^4 r^3+12 l^2 r^5+l^6 R-39 l^4 r^2 R+71 l^2 r^4 R-r^6 R-20 l^4 r R^2+136 l^2 r^3 R^2-12 r^5 R^2+68 l^2 r^2 R^3-48 r^4 R^3-64 r^3 R^4\right)\right)\Big/\left(\left(l^2+r^2+4 r R\right)^2\left(2 l^2-2 r^2-8 r R-9 R^2\right)\right)\right)\}$$

$$\{X23, FarOutPoint, X76, 3rd\ BROCARD\ POINT,$$
$$-\left(\left(4 R^2\left(l^{10}+19 l^8 r^2-110 l^6 r^4+110 l^4 r^6-19 l^2 r^8-r^{10}-20 l^8 r R-208 l^6 r^3 R+648 l^4 r^5 R-208 l^2 r^7 R-20 r^9 R+52 l^6 r^2 R^2+1032 l^4 r^4 R^2-780 l^2 r^6 R^2-160 r^8 R^2+224 l^4 r^3 R^3-1120 l^2 r^5 R^3-640 r^7 R^3-448 l^2 r^4 R^4-1280 r^6 R^4-1024 r^5 R^5\right)\right)\Big/\left(\left(2 l^2-2 r^2-8 r R-9 R^2\right)\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)^2\right)\right)\}$$

$$\{X23, FarOutPoint, X77, ISOGONAL\ CONJUGATE\ OF\ X(33),$$
$$-\left(\left(R\left(2 l^6 r-4 l^4 r^3+2 l^2 r^5+l^6 R-7 l^4 r^2 R+12 l^2 r^4 R-32 l^4 r R^2+32 l^2 r^3 R^2-8 l^4 R^3+76 l^2 r^2 R^3-4 r^4 R^3+160 l^2 r R^4-48 r^3 R^4+16 l^2 R^5-192 r^2 R^5-256 r R^6\right)\right)\Big/\left(\left(2 l^2-2 r^2-8 r R-9 R^2\right)\left(l^2-r R-4 R^2\right)^2\right)\right)\}$$

$$\{X23, FarOutPoint, X78, ISOGONAL\ CONJUGATE\ OF\ X(34),$$
$$-\frac{R\left(2 l^4 r-4 l^2 r^3+2 r^5-21 l^2 r^2 R+15 r^4 R-12 l^2 r R^2+52 r^3 R^2-4 l^2 R^3+76 r^2 R^3+64 r R^4\right)}{(r-R)^2\left(-2 l^2+2 r^2+8 r R+9 R^2\right)}\}$$

$$\{X23, FarOutPoint, X79, ISOGONAL\ CONJUGATE\ OF\ X(35),$$
$$\left(24 l^4 r^2-32 l^2 r^4+8 r^6+12 l^4 r R-160 l^2 r^3 R+84 r^5 R-200 l^2 r^2 R^2+312 r^4 R^2-6 l^2 r R^3+458 r^3 R^3+9 l^2 R^4+141 r^2 R^4-144 r R^5\right)\Big/\left((2 r+3 R)^2\left(-2 l^2+2 r^2+8 r R+9 R^2\right)\right)\}$$

$$\{X23, FarOutPoint, X80, REFLECTION\ OF\ INCENTER\ IN\ FEUERBACH\ POINT,$$
$$\frac{4 l^4 r-16 l^2 r^3+12 r^5-40 l^2 r^2 R+72 r^4 R-16 l^2 r R^2+136 r^3 R^2-l^2 R^3+83 r^2 R^3+16 r R^4}{(2 r-R)\left(-2 l^2+2 r^2+8 r R+9 R^2\right)}\}$$

$$\{X23, FarOutPoint, X81, CEVAPOINT\ OF\ INCENTER\ AND\ SYMMEDIAN\ POINT,$$
$$-\left(\left(R\left(2 l^6 r+2 l^4 r^3-2 l^2 r^5-2 r^7+l^6 R+13 l^4 r^2 R-25 l^2 r^4 R-21 r^6 R-12 l^4 r R^2-56 l^2 r^3 R^2-76 r^5 R^2-60 l^2 r^2 R^3-112 r^4 R^3-64 r^3 R^4\right)\right)\Big/\left(\left(l^2-r^2-r R\right)^2\left(2 l^2-2 r^2-8 r R-9 R^2\right)\right)\right)\}$$

$$\{X23, FarOutPoint, X82, ISOGONAL\ CONJUGATE\ OF\ X(38),$$
$$-\left(\left(R\left(2 l^{10} r+2 l^8 r^3-4 l^6 r^5-4 l^4 r^7+2 l^2 r^9+2 r^{11}+l^{10} R-27 l^8 r^2 R-66 l^6 r^4 R+118 l^4 r^6 R-63 l^2 r^8 R+37 r^{10} R-28 l^8 r R^2+100 l^6 r^3 R^2+524 l^4 r^5 R^2-612 l^2 r^7 R^2+272 r^9 R^2+236 l^6 r^2 R^3+100 l^4 r^4 R^3-1644 l^2 r^6 R^3+988 r^8 R^3-752 l^4 r^3 R^4-1024 l^2 r^5 R^4+1744 r^7 R^4+784 l^2 r^4 R^5+1088 r^6 R^5-256 r^5 R^6\right)\right)\Big/\left(\left(2 l^2-2 r^2-8 r R-9 R^2\right)\left(l^4-4 l^2 r^2+3 r^4-9 l^2 r R+19 r^3 R+28 r^2 R^2\right)^2\right)\right)\}$$

$$\{X23, FarOutPoint, X83, CEVAPOINT\ OF\ CENTROID\ AND\ SYMMEDIAN\ POINT,$$
$$-\left(\left(4\left(2 l^{12}+4 l^{10} r^2-2 l^8 r^4-8 l^6 r^6-2 l^4 r^8+4 l^2 r^{10}+2 r^{12}-48 l^{10} r R-16 l^8 r^3 R+32 l^6 r^5 R-32 l^4 r^7 R+16 l^2 r^9 R+48 r^{11} R+l^{10} R^2+475 l^8 r^2 R^2-518 l^6 r^4 R^2+454 l^4 r^6 R^2-379 l^2 r^8 R^2+479 r^{10} R^2-20 l^8 r R^3-2480 l^6 r^3 R^3+4040 l^4 r^5 R^3-3504 l^2 r^7 R^3+2540 r^9 R^3+52 l^6 r^2 R^4+7560 l^4 r^4 R^4-10\,892 l^2 r^6 R^4+7520 r^8 R^4+224 l^4 r^3 R^5-11\,872 l^2 r^5 R^5+11\,648 r^7 R^5-448 l^2 r^4 R^6+6912 r^6 R^6-1024 r^5 R^7\right)\right)\Big/\left(\left(2 l^2-2 r^2-8 r R-9 R^2\right)\left(5 l^4-6 l^2 r^2+5 r^4-40 l^2 r R+40 r^3 R+80 r^2 R^2\right)^2\right)\right)\}$$

$$\left\{X23,\ \text{FarOutPoint},\ X84,\ \text{ISOGONAL CONJUGATE OF } X(40),\ -\frac{R\left(4 l^4 r-4 l^2 r^3-8 l^4 R-3 l^2 r^2 R+r^4 R+12 l^2 r R^2+68 l^2 R^3-48 r^2 R^3-128 r R^4-144 R^5\right)}{r^2\left(-2 l^2+2 r^2+8 r R+9 R^2\right)}\right\}$$

$$\left\{X23,\ \text{FarOutPoint},\ X85,\ \text{ISOTOMIC CONJUGATE OF } X(9),\ -\left(\left(4 R\left(12 l^6 r-16 l^4 r^3+4 l^2 r^5+9 l^6 R-87 l^4 r^2 R+47 l^2 r^4 R-r^6 R-132 l^4 r R^2+208 l^2 r^3 R^2-20 r^5 R^2-16 l^4 R^3+436 l^2 r^2 R^3-160 r^4 R^3+416 l^2 r R^4-640 r^3 R^4+64 l^2 R^5-1280 r^2 R^5-1024 r R^6\right)\right)\Big/\left(\left(2 l^2-2 r^2-8 r R-9 R^2\right)\left(l^2+r^2+8 r R+16 R^2\right)^2\right)\right)\right\}$$

$$\left\{X23,\ \text{FarOutPoint},\ X86,\ \text{CEVAPOINT OF INCENTER AND CENTROID},\ -\left(\left(4\left(2 l^8+2 l^6 r^2-2 l^4 r^4-2 l^2 r^6-8 l^6 r R-16 l^4 r^3 R-8 l^2 r^5 R+l^6 R^2+l^4 r^2 R^2-l^2 r^4 R^2-r^6 R^2-12 l^4 r R^3+8 l^2 r^3 R^3-12 r^5 R^3-60 l^2 r^2 R^4-48 r^4 R^4-64 r^3 R^5\right)\right)\Big/\left(\left(5 l^2+r^2+4 r R\right)^2\left(2 l^2-2 r^2-8 r R-9 R^2\right)\right)\right)\right\}$$

$$\left\{X23,\ \text{FarOutPoint},\ X87,\ X(2)\text{-CROSS CONJUGATE OF } X(1),\ \left(R\left(4 l^{10} r+12 l^8 r^3+8 l^6 r^5-8 l^4 r^7-12 l^2 r^9-4 r^{11}-l^{10} R-137 l^8 r^2 R-186 l^6 r^4 R-2 l^4 r^6 R+11 l^2 r^8 R-37 r^{10} R+32 l^8 r R^2+1504 l^6 r^3 R^2+864 l^4 r^5 R^2-608 l^2 r^7 R^2-288 l^6 r^2 R^3-6176 l^4 r^4 R^3-736 l^2 r^6 R^3+1056 r^8 R^3+256 l^4 r^3 R^4+4608 l^2 r^5 R^4+4352 r^7 R^4+3840 l^2 r^4 R^5+6912 r^6 R^5+4096 r^5 R^6\right)\right)\Big/\left(\left(2 l^2-2 r^2-8 r R-9 R^2\right)\left(l^4+2 l^2 r^2+r^4-20 l^2 r R+12 r^3 R+32 r^2 R^2\right)^2\right)\right\}$$

$$\left\{X23,\ \text{FarOutPoint},\ X88,\ \text{ISOGONAL CONJUGATE OF } X(44),\ \left((2 r-R) R\left(l^6+5 l^4 r^2-33 l^2 r^4+27 r^6-28 l^4 r R-48 l^2 r^3 R+180 r^5 R+228 l^2 r^2 R^2+144 r^4 R^2-576 r^3 R^3\right)\right)\Big/\left(\left(l^2+3 r^2-15 r R\right)^2\left(2 l^2-2 r^2-8 r R-9 R^2\right)\right)\right\}$$

$$\left\{X23,\ \text{FarOutPoint},\ X89,\ \text{ISOGONAL CONJUGATE OF } X(45),\ -\left(\left(4 R\left(l^6 r+11 l^4 r^3+15 l^2 r^5-27 r^7+l^6 R+34 l^4 r^2 R+9 l^2 r^4 R-252 r^6 R-4 l^4 r R^2-756 r^5 R^2-156 l^2 r^2 R^3-864 r^4 R^3-576 r^3 R^4\right)\right)\Big/\left(\left(2 l^2-6 r^2+3 r R\right)^2\left(2 l^2-2 r^2-8 r R-9 R^2\right)\right)\right)\right\}$$

$$\left\{X23,\ \text{FarOutPoint},\ X90,\ X(3)\text{-CROSS CONJUGATE OF } X(1),\ \left(R\left(4 l^4 r^3-4 l^2 r^5-8 l^4 r^2 R-3 l^2 r^4 R+r^6 R+4 l^4 r R^2+10 l^2 r^3 R^2+10 r^5 R^2-4 l^2 r^2 R^3+36 r^4 R^3-14 l^2 r R^4+62 r^3 R^4-l^2 R^5+51 r^2 R^5+16 r R^6\right)\right)\Big/\left(\left(2 l^2-2 r^2-8 r R-9 R^2\right)\left(r^2+2 r R-R^2\right)^2\right)\right\}$$

$$\left\{X23,\ \text{FarOutPoint},\ X91,\ \text{ISOGONAL CONJUGATE OF } X(47),\ \frac{1}{\left(2 l^2-2 r^2-8 r R-9 R^2\right)\left(l^2 r+r^3-l^2 R+3 r^2 R+2 r R^2+2 R^3\right)^2}\ R\left(2 l^8 r-20 l^6 r^3+56 l^4 r^5-44 l^2 r^7+6 r^9-40 l^6 r^2 R+232 l^4 r^4 R-344 l^2 r^6 R+88 r^8 R-16 l^6 r R^2+396 l^4 r^3 R^2-1080 l^2 r^5 R^2+524 r^7 R^2-l^6 R^3+269 l^4 r^2 R^3-1755 l^2 r^4 R^3+1639 r^6 R^3+64 l^4 r R^4-1584 l^2 r^3 R^4+2928 r^5 R^4+4 l^4 R^5-672 l^2 r^2 R^5+3068 r^4 R^5-112 l^2 r R^6+1856 r^3 R^6-4 l^2 R^7+556 r^2 R^7+64 r R^8\right)\right\}$$

$$\left\{X23,\ \text{FarOutPoint},\ X92,\ \text{CEVAPOINT OF INCENTER AND CLAWSON POINT},\ -\left(\left(4 R\left(6 l^6 r-14 l^4 r^3+10 l^2 r^5-2 r^7+l^6 R-59 l^4 r^2 R+87 l^2 r^4 R-29 r^6 R-68 l^4 r R^2+284 l^2 r^3 R^2-168 r^5 R^2-8 l^4 R^3+416 l^2 r^2 R^3-500 r^4 R^3+240 l^2 r R^4-816 r^3 R^4+16 l^2 R^5-704 r^2 R^5-256 r R^6\right)\right)\Big/\left(\left(2 l^2-2 r^2-8 r R-9 R^2\right)\left(l^2+r^2-4 R^2\right)^2\right)\right)\right\}$$

$$\left\{X23,\ \text{FarOutPoint},\ X93,\ \text{ISOGONAL CONJUGATE OF } X(49),\ \left(4 R^2\left(l^{10}-37 l^8 r^2+90 l^6 r^4-90 l^4 r^6+37 l^2 r^8-r^{10}-20 l^8 r R+464 l^6 r^3 R-824 l^4 r^5 R+464 l^2 r^7 R-20 r^9 R-12 l^8 R^2+572 l^6 r^2 R^2-2768 l^4 r^4 R^2+2428 l^2 r^6 R^2-172 r^8 R^2+192 l^6 r R^3-4128 l^4 r^3 R^3+6816 l^2 r^5 R^3-832 r^7 R^3+51 l^6 R^4-2669 l^4 r^2 R^4+10925 l^2 r^4 R^4-2483 r^6 R^4-612 l^4 r R^5+9752 l^2 r^3 R^5-4708 r^5 R^5-88 l^4 R^6+4328 l^2 r^2 R^6-5608 r^4 R^6+704 l^2 r R^7-3968 r^3 R^7+48 l^2 R^8-1456 r^2 R^8-192 r R^9-9 R^{10}\right)\right)\Big/\left(\left(2 l^2-2 r^2-8 r R-9 R^2\right)\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-8 l^2 R^2+24 r^2 R^2+32 r R^3+13 R^4\right)^2\right)\right\}$$

$$\left\{\text{X23, FarOutPoint, X94, ISOGONAL CONJUGATE OF X(50)},\ \frac{4R^2\left(l^2-r^2-4rR-3R^2\right)^2\left(l^4-14l^2r^2+r^4-8l^2rR+8r^3R+16r^2R^2\right)}{\left(l^4+2l^2r^2+r^4-8l^2rR+8r^3R-12l^2R^2+28r^2R^2+48rR^3+27R^4\right)^2}\right\}$$

$$\left\{\text{X23, FarOutPoint, X95, CEVAPOINT OF CENTROID AND CIRCUMCENTER},\ -\left(\left(4R^2\left(l^{10}+59l^8r^2-70l^6r^4+70l^4r^6-59l^2r^8-r^{10}-20l^8rR-688l^6r^3R+968l^4r^5R-688l^2r^7R-20r^9R-8l^8R^2-316l^6r^2R^2+3896l^4r^4R^2-3068l^2r^6R^2-168r^8R^2+128l^6rR^3+3040l^4r^3R^3-6496l^2r^5R^3-768r^7R^3+16l^6R^4+624l^4r^2R^4-6704l^2r^4R^4-2064r^6R^4-192l^4rR^5-3328l^2r^3R^5-3264r^5R^5-960l^2r^2R^6-2816r^4R^6-1024r^3R^7\right)\right)\Big/\left(\left(2l^2-2r^2-8rR-9R^2\right)\left(l^4+18l^2r^2+r^4-8l^2rR+8r^3R-4l^2R^2+20r^2R^2+16rR^3\right)^2\right)\right)\right\}$$

$$\left\{\text{X23, FarOutPoint, X96, ISOGONAL CONJUGATE OF X(52)},\ \left(4R^2\left(4l^{10}-44l^8r^2+80l^6r^4-80l^4r^6+44l^2r^8-4r^{10}-80l^8rR+608l^6r^3R-928l^4r^5R+608l^2r^7R-80r^9R-47l^8R^2+1072l^6r^2R^2-3842l^4r^4R^2+3504l^2r^6R^2-687r^8R^2+752l^6rR^3-6768l^4r^3R^3+10\,864l^2r^5R^3-3312r^7R^3+200l^6R^4-5768l^4r^2R^4+19\,304l^2r^4R^4-9832r^6R^4-2400l^4rR^5+19\,456l^2r^3R^5-18\,528r^5R^5-400l^4R^6+10\,928l^2r^2R^6-22\,032r^4R^6+3200l^2rR^7-16\,000r^3R^7+384l^2R^8-6784r^2R^8-1536rR^9-144R^{10}\right)\right)\Big/\left(\left(2l^2-2r^2-8rR-9R^2\right)\left(l^4-14l^2r^2+r^4-8l^2rR+8r^3R+16r^2R^2-4R^4\right)^2\right)\right\}$$

$$\left\{\text{X23, FarOutPoint, X97, ISOGONAL CONJUGATE OF X(53)},\ \left(R^2\left(l^{10}-21l^8r^2+106l^6r^4-106l^4r^6+21l^2r^8-r^{10}-20l^8rR+272l^6r^3R-696l^4r^5R+272l^2r^7R-20r^9R-12l^8R^2+444l^6r^2R^2-2128l^4r^4R^2+1532l^2r^6R^2-172r^8R^2+192l^6rR^3-3104l^4r^3R^3+4768l^2r^5R^3-832r^7R^3+48l^6R^4-2416l^4r^2R^4+8624l^2r^4R^4-2480r^6R^4-576l^4rR^5+8704l^2r^3R^5-4672r^5R^5-64l^4R^6+4160l^2r^2R^6-5440r^4R^6+512l^2rR^7-3584r^3R^7-1024r^2R^8\right)\right)\Big/\left(\left(2l^2-2r^2-8rR-9R^2\right)\left(l^4-6l^2r^2+r^4-8l^2rR+8r^3R-7l^2R^2+23r^2R^2+28rR^3+12R^4\right)^2\right)\right\}$$

$$\left\{\text{X23, FarOutPoint, X98, TarryPoint},\ \frac{4R^2\left(l^2-r^2-4rR\right)^2}{l^4-14l^2r^2+r^4-8l^2rR+8r^3R+16r^2R^2}\right\}$$

$$\left\{\text{X23, FarOutPoint, X99, STEINER POINT},\ -\frac{4R^2\left(l^6+9l^4r^2-9l^2r^4-r^6-12l^4rR-24l^2r^3R-12r^5R-60l^2r^2R^2-48r^4R^2-64r^3R^3\right)}{\left(2l^2-2r^2-8rR-9R^2\right)\left(l^4-14l^2r^2+r^4-8l^2rR+8r^3R+16r^2R^2\right)}\right\}$$

$$\left\{\text{X23, FarOutPoint, X100, ANTICOMPLEMENT OF FEUERBACH POINT},\ \frac{4R^2\left(-l^2r+r^3-l^2R+8r^2R+16rR^2\right)}{(2r-R)\left(-2l^2+2r^2+8rR+9R^2\right)}\right\}$$

$$\left\{\text{X24, PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE, X25, HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES},\ -\frac{(l-r-2R)^2R^4(l+r+2R)^2\left(2l^2-2r^2-8rR-9R^2\right)}{\left(l^2-r^2-4rR-6R^2\right)^2\left(l^2-r^2-4rR-5R^2\right)^2}\right\}$$

$$\left\{\text{X24, PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE, X26, CIRCUMCENTER OF THE TANGENTIAL TRIANGLE},\ -\frac{R^8\left(2l^2-2r^2-8rR-9R^2\right)}{(l-r-2R)^2(l+r+2R)^2\left(l^2-r^2-4rR-5R^2\right)^2}\right\}$$

$$\left\{\text{X24, PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE, X27, CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER},\ -\frac{(l-r-2R)^2(l+r+2R)^2\left(2l^2-2r^2-8rR-9R^2\right)\left(l^2+r^2+4rR+2R^2\right)^2}{\left(l^2-3r^2-12rR-12R^2\right)^2\left(l^2-r^2-4rR-5R^2\right)^2}\right\}$$

$$\left\{\text{X24, PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE, X28, CEVAPOINT OF X(19) AND X(25)},\ -\frac{(l-r-2R)^2R^2(r+R)^2(l+r+2R)^2\left(2l^2-2r^2-8rR-9R^2\right)}{\left(l^2-r^2-5rR-6R^2\right)^2\left(l^2-r^2-4rR-5R^2\right)^2}\right\}$$

$$\left\{\text{X24, PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE, X29, CEVAPOINT OF INCENTER AND ORTHOCENTER}, -\frac{(l-r-2R)^2(l+r+2R)^2\left(2l^2-2r^2-8rR-9R^2\right)\left(l^2+r^2-2R^2\right)^2}{\left(3l^2-r^2-8rR-12R^2\right)^2\left(l^2-r^2-4rR-5R^2\right)^2}\right\}$$

$$\left\{\text{X24, PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE, X30, EulerInfinityPoint}, \infty\right\}$$

$$\left\{\text{X24, PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE, X31, SecondPowerPoint}, -\left(\left(R^2\left(10l^6r^2-30l^4r^4+22l^2r^6-2r^8-88l^4r^3R+144l^2r^5R-24r^7R+l^6R^2-93l^4r^2R^2+379l^2r^4R^2-119r^6R^2-16l^4rR^3+472l^2r^3R^3-312r^5R^3-4l^4R^4+288l^2r^2R^4-460r^4R^4+48l^2rR^5-368r^3R^5-144r^2R^6\right)\right)\Big/\left(\left(l^2-3r^2-6rR\right)^2\left(l^2-r^2-4rR-5R^2\right)^2\right)\right)\right\}$$

$$\left\{\text{X24, PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE, X32, ThirdPowerPoint}, -\left(\left(R^2\left(12l^{10}r^2-64l^8r^4+104l^6r^6-64l^4r^8+12l^2r^{10}-192l^8r^3R+704l^6r^5R-704l^4r^7R+192l^2r^9R+l^{10}R^2-117l^8r^2R^2+1610l^6r^4R^2-3018l^4r^6R^2+1269l^2r^8R^2-r^{10}R^2-20l^8rR^3+1424l^6r^3R^3-6328l^4r^5R^3+4496l^2r^7R^3-20r^9R^3-4l^8R^4+428l^6r^2R^4-6528l^4r^4R^4+9196l^2r^6R^4-164r^8R^4+64l^6rR^5-2848l^4r^3R^5+10656l^2r^5R^5-704r^7R^5-384l^4r^2R^6+6080l^2r^4R^6-1664r^6R^6+1024l^2r^3R^7-2048r^5R^7-1024r^4R^8\right)\right)\Big/\left(\left(l^2-2lr-r^2-4rR\right)^2\left(l^2+2lr-r^2-4rR\right)^2\left(l^2-r^2-4rR-5R^2\right)^2\right)\right)\right\}$$

$$\left\{\text{X24, PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE, X33, PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES}, -\left(\left((l-r-2R)^2R(l+r+2R)^2\left(4l^4r-4l^2r^3-18l^2r^2R+2r^4R-32l^2rR^2+20r^3R^2+l^2R^3+61r^2R^3+60rR^4-4R^5\right)\right)\Big/\left(\left(l^2-r^2-4rR-5R^2\right)^2\left(l^2-r^2-2rR-4R^2\right)^2\right)\right)\right\}$$

$$\left\{\text{X24, PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE, X34, X(4)-BETH CONJUGATE OF X(4)}, \frac{(l-r-2R)^2(2r-R)R(l+r+2R)^2\left(2l^2r^2-2r^4-2l^2rR-6r^3R+l^2R^2-3r^2R^2+4rR^3-4R^4\right)}{\left(l^2-r^2-4rR-5R^2\right)^2\left(l^2-r^2-6rR-4R^2\right)^2}\right\}$$

$$\left\{\text{X24, PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE, X35, \{X(1),X(3)\}-HARMONIC CONJUGATE OF X(36)}, -\frac{R^3\left(4l^4r-4l^2r^3-18l^2r^2R+2r^4R-32l^2rR^2+20r^3R^2+l^2R^3+61r^2R^3+60rR^4-4R^5\right)}{(2r+R)^2\left(-l^2+r^2+4rR+5R^2\right)^2}\right\}$$

$$\left\{\text{X24, PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE, X36, INVERSE-IN-CIRCUMCIRCLE OF INCENTER}, -\frac{R^3\left(-2l^2r^2+2r^4+2l^2rR+6r^3R-l^2R^2+3r^2R^2-4rR^3+4R^4\right)}{(2r-R)\left(-l^2+r^2+4rR+5R^2\right)^2}\right\}$$

$$\left\{\text{X24, PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE, X37, CrosspointOfIncenterAndCentroid}, -\left(\left(R\left(4l^8r-12l^6r^3+12l^4r^5-4l^2r^7-36l^6r^2R+72l^4r^4R-36l^2r^6R-36l^6rR^2+176l^4r^3R^2-140l^2r^5R^2+l^6R^3+201l^4r^2R^3-297l^2r^4R^3-r^6R^3+84l^4rR^4-352l^2r^3R^4-12r^5R^4-4l^4R^5-204l^2r^2R^5-52r^4R^5-32l^2rR^6-96r^3R^6-64r^2R^7\right)\right)\Big/\left(\left(l^2+r^2+4rR\right)^2\left(l^2-r^2-4rR-5R^2\right)^2\right)\right)\right\}$$

$$\left\{\text{X24, PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE, X38, CROSSPOINT OF X(1) AND X(75)}, -\frac{1}{\left(l^2+r^2-2rR\right)^2\left(l^2-r^2-4rR-5R^2\right)^2}R\left(4l^8r-24l^6r^3+48l^4r^5-40l^2r^7+12r^9-70l^6r^2R+306l^4r^4R-410l^2r^6R+174r^8R-36l^6rR^2+668l^4r^3R^2-1644l^2r^5R^2+1044r^7R^2+l^6R^3+507l^4r^2R^3-3189l^2r^4R^3+3361r^6R^3+72l^4rR^4-2936l^2r^3R^4+6208r^5R^4-4l^4R^5-848l^2r^2R^5+6308r^4R^5+16l^2rR^6+2800r^3R^6-16r^2R^7\right)\right\}$$

$$\{X24,\ \text{PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE},\ X39,\ \text{BrocardMidpoint},$$
$$-\Big(\Big(R^2\big(20 l^{10} r^2 - 64 l^8 r^4 + 88 l^6 r^6 - 64 l^4 r^8 + 20 l^2 r^{10} - 320 l^8 r^3 R + 832 l^6 r^5 R - 832 l^4 r^7 R + 320 l^2 r^9 R + l^{10} R^2 - 173 l^8 r^2 R^2 + 2386 l^6 r^4 R^2 - 4050 l^4 r^6 R^2 + 2093 l^2 r^8 R^2 - r^{10} R^2 - 20 l^8 r R^3 + 2096 l^6 r^3 R^3 - 9080 l^4 r^5 R^3 + 7216 l^2 r^7 R^3 - 20 r^9 R^3 - 4 l^8 R^4 + 524 l^6 r^2 R^4 - 9408 l^4 r^4 R^4 + 14028 l^2 r^6 R^4 - 164 r^8 R^4 + 64 l^6 r R^5 - 3616 l^4 r^3 R^5 + 15008 l^2 r^5 R^5 - 704 r^7 R^5 - 384 l^4 r^2 R^6 + 7616 l^2 r^4 R^6 - 1664 r^6 R^6 + 1024 l^2 r^3 R^7 - 2048 r^5 R^7 - 1024 r^4 R^8\big)\Big) \Big/ \Big(\big(l^2 - r^2 - 4 r R - 5 R^2\big)^2 \big(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\big)^2\Big)\Big)\}$$

$$\{X24,\ \text{PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE},$$
$$X40,\ \text{BEVAN POINT},\ -\frac{1}{\big(l^2 - r^2 - 4 r R - 5 R^2\big)^2} R\big(2 l^4 r - 4 l^2 r^3 + 2 r^5 - 2 l^4 R - 14 l^2 r^2 R + 16 r^4 R - 6 l^2 r R^2 + 46 r^3 R^2 + 23 l^2 R^3 + 43 r^2 R^3 - 32 r R^4 - 64 R^5\big)\}$$

$$\{X24,\ \text{PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE},\ X41,$$
$$X(6)\text{-CEVA CONJUGATE OF } X(31),\ \frac{1}{\big(l^2 - r^2 - 4 r R - 5 R^2\big)^2 \big(3 l^2 r - r^3 + 2 l^2 R - 8 r^2 R - 16 r R^2\big)^2}$$
$$R^2\big(2 l^8 r^2 - 22 l^6 r^4 + 30 l^4 r^6 - 10 l^2 r^8 + 4 l^8 r R - 116 l^6 r^3 R + 300 l^4 r^5 R - 156 l^2 r^7 R - 175 l^6 r^2 R^2 + 1147 l^4 r^4 R^2 - 997 l^2 r^6 R^2 + r^8 R^2 - 48 l^6 r R^3 + 1996 l^4 r^3 R^3 - 3376 l^2 r^5 R^3 + 20 r^7 R^3 - 4 l^6 R^4 + 1428 l^4 r^2 R^4 - 6484 l^2 r^4 R^4 + 164 r^6 R^4 + 208 l^4 r R^5 - 6832 l^2 r^3 R^5 + 704 r^5 R^5 + 16 l^4 R^6 - 3264 l^2 r^2 R^6 + 1664 r^4 R^6 - 256 l^2 r R^7 + 2048 r^3 R^7 + 1024 r^2 R^8\big)\}$$

$$\{X24,\ \text{PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE},$$
$$X42,\ \text{CROSSPOINT OF INCENTER AND SYMMEDIAN POINT},$$
$$-\Big(\Big(R^2\big(22 l^6 r^2 - 34 l^4 r^4 + 10 l^2 r^6 + 2 r^8 - 144 l^4 r^3 R + 80 l^2 r^5 R + 32 r^7 R + l^6 R^2 - 193 l^4 r^2 R^2 + 275 l^2 r^4 R^2 + 197 r^6 R^2 - 8 l^4 r R^3 + 496 l^2 r^3 R^3 + 600 r^5 R^3 - 4 l^4 R^4 + 432 l^2 r^2 R^4 + 916 r^4 R^4 + 16 l^2 r R^5 + 560 r^3 R^5 - 16 r^2 R^6\big)\Big) \Big/ \Big(\big(l^2 + r^2 - 2 r R\big)^2 \big(l^2 - r^2 - 4 r R - 5 R^2\big)^2\Big)\Big)\}$$

$$\{X24,\ \text{PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE},\ X43,$$
$$X(6)\text{-CEVA CONJUGATE OF } X(1),\ \frac{1}{\big(l^2 + r^2 - 8 r R\big)^2 \big(l^2 - r^2 - 4 r R - 5 R^2\big)^2}$$
$$R\big(2 l^8 r - 4 l^4 r^5 + 2 r^9 - 58 l^6 r^2 R + 86 l^4 r^4 R - 70 l^2 r^6 R + 42 r^8 R - 18 l^6 r R^2 + 406 l^4 r^3 R^2 - 542 l^2 r^5 R^2 + 314 r^7 R^2 - l^6 R^3 + 441 l^4 r^2 R^3 - 1499 l^2 r^4 R^3 + 1131 r^6 R^3 + 60 l^4 r R^4 - 1800 l^2 r^3 R^4 + 2108 r^5 R^4 + 4 l^4 R^5 - 920 l^2 r^2 R^5 + 1956 r^4 R^5 - 64 l^2 r R^6 + 832 r^3 R^6 + 256 r^2 R^7\big)\}$$

$$\{X24,\ \text{PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE},\ X44,$$
$$X(6)\text{-LINE CONJUGATE OF } X(1),\ \frac{1}{\big(l^2 - 3 r^2 - 12 r R\big)^2 \big(l^2 - r^2 - 4 r R - 5 R^2\big)^2}$$
$$R\big(4 l^8 r + 4 l^6 r^3 - 20 l^4 r^5 + 12 l^2 r^7 - 100 l^6 r^2 R + 88 l^4 r^4 R + 12 l^2 r^6 R - 36 l^6 r R^2 + 576 l^4 r^3 R^2 - 348 l^2 r^5 R^2 - l^6 R^3 + 743 l^4 r^2 R^3 - 1503 l^2 r^4 R^3 + 9 r^6 R^3 + 108 l^4 r R^4 - 2448 l^2 r^3 R^4 + 108 r^5 R^4 + 4 l^4 R^5 - 1524 l^2 r^2 R^5 + 468 r^4 R^5 - 96 l^2 r R^6 + 864 r^3 R^6 + 576 r^2 R^7\big)\}$$

$$\{X24,\ \text{PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE},\ X45,$$
$$X(9)\text{-BETH CONJUGATE OF } X(1),\ -\frac{1}{\big(l^2 + 3 r^2 + 12 r R\big)^2 \big(l^2 - r^2 - 4 r R - 5 R^2\big)^2}$$
$$R\big(8 l^8 r - 40 l^6 r^3 + 56 l^4 r^5 - 24 l^2 r^7 - 56 l^6 r^2 R + 224 l^4 r^4 R - 168 l^2 r^6 R - 72 l^6 r R^2 + 336 l^4 r^3 R^2 - 456 l^2 r^5 R^2 + l^6 R^3 + 289 l^4 r^2 R^3 - 585 l^2 r^4 R^3 - 9 r^6 R^3 + 180 l^4 r R^4 - 360 l^2 r^3 R^4 - 108 r^5 R^4 - 4 l^4 R^5 - 156 l^2 r^2 R^5 - 468 r^4 R^5 - 96 l^2 r R^6 - 864 r^3 R^6 - 576 r^2 R^7\big)\}$$

$$\{X24,\ \text{PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE},\ X46,\ X(4)\text{-CEVA CONJUGATE OF } X(1),$$
$$-\Big(\Big(R\big(2 l^4 r^3 - 4 l^2 r^5 + 2 r^7 + 2 l^4 r^2 R - 22 l^2 r^4 R + 20 r^6 R - 38 l^2 r^3 R^2 + 78 r^5 R^2 - 15 l^2 r^2 R^3 + 145 r^4 R^3 - 2 l^2 r R^4 + 122 r^3 R^4 + l^2 R^5 + 33 r^2 R^5 + 4 r R^6 - 4 R^7\big)\Big) \Big/ \Big((r - R)^2 \big(-l^2 + r^2 + 4 r R + 5 R^2\big)^2\Big)\Big)\}$$

$$\{X24,\ \text{PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE},\ X47,\ X(110)\text{-BETH CONJUGATE OF } X(34),$$
$$-\Big(\big(R^2\big(10 l^6 r^2 - 30 l^4 r^4 + 22 l^2 r^6 - 2 r^8 - 4 l^6 r R - 84 l^4 r^3 R + 148 l^2 r^5 R - 28 r^7 R + l^6 R^2 - 69 l^4 r^2 R^2 + 395 l^2 r^4 R^2 - 159 r^6 R^2 + 28 l^4 r R^3 + 456 l^2 r^3 R^3 - 468 r^5 R^3 - 8 l^4 R^4 + 160 l^2 r^2 R^4 - 744 r^4 R^4 - 64 l^2 r R^5 - 576 r^3 R^5 + 20 l^2 R^6 - 124 r^2 R^6 + 48 r R^7 - 16 R^8\big)\big) \Big/ \big((l^2 - r^2 - 4 r R - 5 R^2)^2 (l^2 - 3 r^2 - 6 r R - 2 R^2)^2\big)\Big)\}$$

$$\{X24,\ \text{PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE},\ X48,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(63),$$
$$\big(R^2\big(2 l^8 - 22 l^6 r^2 + 30 l^4 r^4 - 10 l^2 r^6 - 40 l^6 r R + 176 l^4 r^3 R - 104 l^2 r^5 R - 23 l^6 R^2 + 379 l^4 r^2 R^2 - 445 l^2 r^4 R^2 + r^6 R^2 + 328 l^4 r R^3 - 1000 l^2 r^3 R^3 + 16 r^5 R^3 + 88 l^4 R^4 - 1232 l^2 r^2 R^4 + 104 r^4 R^4 - 768 l^2 r R^5 + 352 r^3 R^5 - 176 l^2 R^6 + 656 r^2 R^6 + 640 r R^7 + 256 R^8\big)\big) \Big/ \big((3 l^2 - r^2 - 6 r R - 8 R^2)^2 (l^2 - r^2 - 4 r R - 5 R^2)^2\big)\}$$

$$\{X24,\ \text{PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE},\ X49,$$
$$\text{CENTER OF SINE-TRIPLE-ANGLE CIRCLE},\ \frac{1}{(2 l^2 - 2 r^2 - 8 r R - 7 R^2)^2 (l^2 - r^2 - 4 r R - 5 R^2)^2}$$
$$R^2\big(l^8 - 16 l^6 r^2 + 30 l^4 r^4 - 16 l^2 r^6 + r^8 - 16 l^6 r R + 144 l^4 r^3 R - 144 l^2 r^5 R + 16 r^7 R - 13 l^6 R^2 + 243 l^4 r^2 R^2 - 531 l^2 r^4 R^2 + 109 r^6 R^2 + 156 l^4 r R^3 - 1000 l^2 r^3 R^3 + 412 r^5 R^3 + 58 l^4 R^4 - 980 l^2 r^2 R^4 + 938 r^4 R^4 - 464 l^2 r R^5 + 1296 r^3 R^5 - 108 l^2 R^6 + 1036 r^2 R^6 + 432 r R^7 + 81 R^8\big)\}$$

$$\{X24,\ \text{PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE},\ X50,\ X(74)\text{-CEVA CONJUGATE OF } X(184),$$
$$-\Big(\big(R^2\big(12 l^{10} r^2 - 64 l^8 r^4 + 104 l^6 r^6 - 64 l^4 r^8 + 12 l^2 r^{10} - 192 l^8 r^3 R + 704 l^6 r^5 R - 704 l^4 r^7 R + 192 l^2 r^9 R + l^{10} R^2 - 201 l^8 r^2 R^2 + 1910 l^6 r^4 R^2 - 3318 l^4 r^6 R^2 + 1353 l^2 r^8 R^2 - r^{10} R^2 - 20 l^8 r R^3 + 2432 l^6 r^3 R^3 - 8536 l^4 r^5 R^3 + 5504 l^2 r^7 R^3 - 20 r^9 R^3 - 10 l^8 R^4 + 1352 l^6 r^2 R^4 - 12\,636 l^4 r^4 R^4 + 14\,152 l^2 r^6 R^4 - 170 r^8 R^4 + 160 l^6 r R^5 - 10\,336 l^4 r^3 R^5 + 23\,520 l^2 r^5 R^5 - 800 r^7 R^5 + 33 l^6 R^6 - 3975 l^4 r^2 R^6 + 24\,647 l^2 r^4 R^6 - 2273 r^6 R^6 - 396 l^4 r R^7 + 15\,016 l^2 r^3 R^7 - 3980 r^5 R^7 - 36 l^4 R^8 + 4356 l^2 r^2 R^8 - 4180 r^4 R^8 + 288 l^2 r R^9 - 2400 r^3 R^9 - 576 r^2 R^{10}\big)\big) \Big/ \big((l^2 - r^2 - 4 r R - 5 R^2)^2 (l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 3 l^2 R^2 + 19 r^2 R^2 + 12 r R^3)^2\big)\Big)\}$$

$$\{X24,\ \text{PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE},$$
$$X51,\ \text{CENTROID OF ORTHIC TRIANGLE},\ \frac{1}{36 R^2 (-l^2 + r^2 + 4 r R + 5 R^2)^2}$$
$$\big(-l^8 - 16 l^6 r^2 + 34 l^4 r^4 - 16 l^2 r^6 - r^8 + 16 l^6 r R + 112 l^4 r^3 R - 112 l^2 r^5 R - 16 r^7 R + 8 l^6 R^2 + 56 l^4 r^2 R^2 - 280 l^2 r^4 R^2 - 104 r^6 R^2 - 96 l^4 r R^3 - 256 l^2 r^3 R^3 - 352 r^5 R^3 - 11 l^4 R^4 + 26 l^2 r^2 R^4 - 651 r^4 R^4 + 88 l^2 r R^5 - 600 r^3 R^5 - 56 l^2 R^6 - 120 r^2 R^6 + 224 r R^7 + 144 R^8\big)\}$$

$$\{X24,\ \text{PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE},$$
$$X52,\ \text{ORTHOCENTER OF ORTHIC TRIANGLE},\ \frac{1}{4 R^2 (-l^2 + r^2 + 4 r R + 5 R^2)^2}$$
$$\big(l^8 - 16 l^6 r^2 + 30 l^4 r^4 - 16 l^2 r^6 + r^8 - 16 l^6 r R + 144 l^4 r^3 R - 144 l^2 r^5 R + 16 r^7 R - 12 l^6 R^2 + 244 l^4 r^2 R^2 - 532 l^2 r^4 R^2 + 108 r^6 R^2 + 144 l^4 r R^3 - 992 l^2 r^3 R^3 + 400 r^5 R^3 + 47 l^4 R^4 - 930 l^2 r^2 R^4 + 879 r^4 R^4 - 376 l^2 r R^5 + 1144 r^3 R^5 - 68 l^2 R^6 + 820 r^2 R^6 + 272 r R^7 + 36 R^8\big)\}$$

$$\{X24,\ \text{PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE},$$
$$X53,\ \text{SYMMEDIAN POINT OF ORTHIC TRIANGLE},\ \big((l - r - 2 R)^2 (l + r + 2 R)^2 \big(4 l^8 r^2 - 28 l^6 r^4 + 28 l^4 r^6 - 4 l^2 r^8 - 48 l^6 r^3 R + 160 l^4 r^5 R - 48 l^2 r^7 R - 44 l^6 r^2 R^2 + 344 l^4 r^4 R^2 - 236 l^2 r^6 R^2 + 352 l^4 r^3 R^3 - 608 l^2 r^5 R^3 - l^6 R^4 + 191 l^4 r^2 R^4 - 895 l^2 r^4 R^4 + r^6 R^4 + 12 l^4 r R^5 - 776 l^2 r^3 R^5 + 12 r^5 R^5 + 4 l^4 R^6 - 356 l^2 r^2 R^6 + 52 r^4 R^6 - 32 l^2 r R^7 + 96 r^3 R^7 + 64 r^2 R^8\big)\big) \Big/ \big((l^2 - r^2 - 4 r R - 5 R^2)^2 (l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 4 l^2 R^2 + 20 r^2 R^2 + 16 r R^3)^2\big)\}$$

$$\{X24,\ \text{PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE},\ X54,\ \text{KosnitaPoint},$$
$$-\Big(\big(R^2\big(16 l^6 r^2 - 32 l^4 r^4 + 16 l^2 r^6 - 128 l^4 r^3 R + 128 l^2 r^5 R + l^6 R^2 - 143 l^4 r^2 R^2 + 399 l^2 r^4 R^2 - r^6 R^2 - 12 l^4 r R^3 + 584 l^2 r^3 R^3 - 12 r^5 R^3 - 4 l^4 R^4 + 356 l^2 r^2 R^4 - 52 r^4 R^4 + 32 l^2 r R^5 - 96 r^3 R^5 - 64 r^2 R^6\big)\big) \Big/ \big((2 l^2 - 2 r^2 - 8 r R - 5 R^2)^2 (l^2 - r^2 - 4 r R - 5 R^2)^2\big)\Big)\}$$

$$\left\{\text{X24, PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE, X55, INSIMILICENTER(CIRCUMCIRCLE, INCIRCLE)}, -\frac{R^3\left(3 l^4 r-4 l^2 r^3+r^5-18 l^2 r^2 R+10 r^4 R-25 l^2 r R^2+39 r^3 R^2+l^2 R^3+70 r^2 R^3+48 r R^4-4 R^5\right)}{(r+R)^2\left(-l^2+r^2+4 r R+5 R^2\right)^2}\right\}$$

$$\left\{\text{X24, PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE, X56, EXSIMILICENTER(CIRCUMCIRCLE, INCIRCLE)}, -\frac{R^3\left(l^4 r-4 l^2 r^3+3 r^5-6 l^2 r^2 R+14 r^4 R-11 l^2 r R^2+29 r^3 R^2+l^2 R^3+34 r^2 R^3+24 r R^4-4 R^5\right)}{(r-R)^2\left(-l^2+r^2+4 r R+5 R^2\right)^2}\right\}$$

$$\left\{\text{X24, PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE, X57, ISOGONAL CONJUGATE OF X(9)}, -\left(\left(R\left(2 l^4 r^3-4 l^2 r^5+2 r^7+6 l^4 r^2 R-30 l^2 r^4 R+24 r^6 R+4 l^4 r R^2-78 l^2 r^3 R^2+114 r^5 R^2-81 l^2 r^2 R^3+275 r^4 R^3-40 l^2 r R^4+360 r^3 R^4+4 l^2 R^5+252 r^2 R^5+80 r R^6-16 R^7\right)\right)\Big/\left((r-2 R)^2\left(-l^2+r^2+4 r R+5 R^2\right)^2\right)\right)\right\}$$

$$\left\{\text{X24, PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE, X58, ISOGONAL CONJUGATE OF X(10)}, -\left(\left(R^2\left(14 l^6 r^2-34 l^4 r^4+18 l^2 r^6+2 r^8-104 l^4 r^3 R+112 l^2 r^5 R+24 r^7 R+l^6 R^2-129 l^4 r^2 R^2+323 l^2 r^4 R^2+101 r^6 R^2-12 l^4 r R^3+472 l^2 r^3 R^3+196 r^5 R^3-4 l^4 R^4+332 l^2 r^2 R^4+160 r^4 R^4+32 l^2 r R^5-64 r^2 R^6\right)\right)\Big/\left(\left(l^2-3 r^2-4 r R\right)^2\left(l^2-r^2-4 r R-5 R^2\right)^2\right)\right)\right\}$$

$$\left\{\text{X24, PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE, X59, ISOGONAL CONJUGATE OF X(11)}, -\frac{1}{(2 r-R)\left(-l^2+r^2+5 r R+4 R^2\right)^2\left(-l^2+r^2+4 r R+5 R^2\right)^2} R^2\left(8 l^6 r^3-16 l^4 r^5+8 l^2 r^7-13 l^6 r^2 R-41 l^4 r^4 R+53 l^2 r^6 R+r^8 R+6 l^6 r R^2+28 l^4 r^3 R^2+94 l^2 r^5 R^2+16 r^7 R^2-l^6 R^3+95 l^4 r^2 R^3-83 l^2 r^4 R^3+105 r^6 R^3-62 l^4 r R^4-380 l^2 r^3 R^4+362 r^5 R^4+12 l^4 R^5-172 l^2 r^2 R^5+680 r^4 R^5+208 l^2 r R^6+592 r^3 R^6-48 l^2 R^7+4 r^2 R^7-224 r R^8+64 R^9\right)\right\}$$

$$\left\{\text{X24, PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE, X60, ISOGONAL CONJUGATE OF X(12)}, -\left(\left(R^2(r+R)^2\left(16 l^6 r^2-32 l^4 r^4+16 l^2 r^6+2 l^6 r R-126 l^4 r^3 R+126 l^2 r^5 R-2 r^7 R+l^6 R^2-167 l^4 r^2 R^2+415 l^2 r^4 R^2-25 r^6 R^2-26 l^4 r R^3+668 l^2 r^3 R^3-122 r^5 R^3-4 l^4 R^4+476 l^2 r^2 R^4-300 r^4 R^4+56 l^2 r R^5-376 r^3 R^5-196 r^2 R^6\right)\right)\Big/\left(\left(l^2-r^2-4 r R-5 R^2\right)^2\left(2 l^2 r-2 r^3+l^2 R-7 r^2 R-7 r R^2\right)^2\right)\right)\right\}$$

$$\left\{\text{X24, PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE, X61, ISOGONAL CONJUGATE OF X(17)}, \frac{1}{\left(3 l^2+2\sqrt{3}\, l r-3 r^2-12 r R\right)^2\left(l^2-r^2-4 r R-5 R^2\right)^2} 3 R^2\left(-2\sqrt{3}\, l^7 r-48 l^6 r^2-2\sqrt{3}\, l^5 r^3+96 l^4 r^4+2\sqrt{3}\, l^3 r^5-48 l^2 r^6+2\sqrt{3}\, l r^7+24\sqrt{3}\, l^5 r^2 R+384 l^4 r^3 R-16\sqrt{3}\, l^3 r^4 R-384 l^2 r^5 R+24\sqrt{3}\, l r^6 R-3 l^6 R^2+14\sqrt{3}\, l^5 r R^2+421 l^4 r^2 R^2-84\sqrt{3}\, l^3 r^3 R^2-1189 l^2 r^4 R^2+110\sqrt{3}\, l r^5 R^2+3 r^6 R^2+36 l^4 r R^3-112\sqrt{3}\, l^3 r^2 R^3-1720 l^2 r^3 R^3+240\sqrt{3}\, l r^4 R^3+36 r^5 R^3+12 l^4 R^4-24\sqrt{3}\, l^3 r R^4-1032 l^2 r^2 R^4+248\sqrt{3}\, l r^3 R^4+156 r^4 R^4-96 l^2 r R^5+96\sqrt{3}\, l r^2 R^5+288 r^3 R^5+192 r^2 R^6\right)\right\}$$

$$\left\{\text{X24, PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE, X62, ISOGONAL CONJUGATE OF X(18)}, \frac{1}{\left(3 l^2-2\sqrt{3}\, l r-3 r^2-12 r R\right)^2\left(l^2-r^2-4 r R-5 R^2\right)^2} 3 R^2\left(2\sqrt{3}\, l^7 r-48 l^6 r^2+2\sqrt{3}\, l^5 r^3+96 l^4 r^4-2\sqrt{3}\, l^3 r^5-48 l^2 r^6-2\sqrt{3}\, l r^7-24\sqrt{3}\, l^5 r^2 R+384 l^4 r^3 R+16\sqrt{3}\, l^3 r^4 R-384 l^2 r^5 R-24\sqrt{3}\, l r^6 R-3 l^6 R^2-14\sqrt{3}\, l^5 r R^2+421 l^4 r^2 R^2+84\sqrt{3}\, l^3 r^3 R^2-1189 l^2 r^4 R^2-110\sqrt{3}\, l r^5 R^2+3 r^6 R^2+36 l^4 r R^3+112\sqrt{3}\, l^3 r^2 R^3-1720 l^2 r^3 R^3-240\sqrt{3}\, l r^4 R^3+36 r^5 R^3+12 l^4 R^4+24\sqrt{3}\, l^3 r R^4-1032 l^2 r^2 R^4-248\sqrt{3}\, l r^3 R^4+156 r^4 R^4-96 l^2 r R^5-96\sqrt{3}\, l r^2 R^5+288 r^3 R^5+192 r^2 R^6\right)\right\}$$

$$\{X24,\ \text{PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE},\ X63,\ \text{ISOGONAL CONJUGATE OF } X(19),\ -\big(\big(R\,(-l^6 r+3 l^4 r^3-3 l^2 r^5+r^7+12 l^4 r^2 R-26 l^2 r^4 R+14 r^6 R+17 l^4 r R^2-90 l^2 r^3 R^2+81 r^5 R^2+l^4 R^3-145 l^2 r^2 R^3+250 r^4 R^3-98 l^2 r R^4+438 r^3 R^4-4 l^2 R^5+416 r^2 R^5+168 r R^6-4 R^7)\big)\big/\big((r+R)^2\,(-l^2+r^2+4 r R+5 R^2)^2\big)\big)\}$$

$$\{X24,\ \text{PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE},\ X64,\ \text{ISOGONAL CONJUGATE OF } X(20),\ \big(R^2\,(2 l^2-2 r^2-8 r R-9 R^2)\,(3 l^6-5 l^4 r^2+5 l^2 r^4-3 r^6-36 l^4 r R+56 l^2 r^3 R-36 r^5 R-56 l^4 R^2+236 l^2 r^2 R^2-200 r^4 R^2+448 l^2 r R^3-640 r^3 R^3+320 l^2 R^4-1216 r^2 R^4-1280 r R^5-576 R^6)\big)\big/\big((1-r-2R)^2\,(1+r+2R)^2\,(l^2-r^2-4 r R-5 R^2)^2\big)\}$$

$$\{X24,\ \text{PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE},\ X65,\ \text{ORTHOCENTER OF THE INTOUCH TRIANGLE},\ \frac{1}{R\,(-l^2+r^2+4 r R+5 R^2)^2}\,(-2 l^4 r^3+4 l^2 r^5-2 r^7-3 l^4 r^2 R+22 l^2 r^4 R-19 r^6 R-l^4 r R^2+44 l^2 r^3 R^2-75 r^5 R^2+34 l^2 r^2 R^3-154 r^4 R^3+9 l^2 r R^4-169 r^3 R^4-l^2 R^5-90 r^2 R^5-16 r R^6+4 R^7)\}$$

$$\{X24,\ \text{PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE},\ X66,\ \text{ISOGONAL CONJUGATE OF } X(22),\ -\big(\big(l^{14}-11 l^{12} r^2+41 l^{10} r^4-75 l^8 r^6+75 l^6 r^8-41 l^4 r^{10}+11 l^2 r^{12}-r^{14}-28 l^{12} r R+248 l^{10} r^3 R-740 l^8 r^5 R+1040 l^6 r^7 R-740 l^4 r^9 R+248 l^2 r^{11} R-28 r^{13} R-15 l^{12} R^2+490 l^{10} r^2 R^2-2801 l^8 r^4 R^2+5964 l^6 r^6 R^2-5761 l^4 r^8 R^2+2474 l^2 r^{10} R^2-351 r^{12} R^2+360 l^{10} r R^3-5064 l^8 r^3 R^3+18192 l^6 r^5 R^3-25232 l^4 r^7 R^3+14344 l^2 r^9 R^3-2600 r^{11} R^3+82 l^{10} R^4-4410 l^8 r^2 R^4+31524 l^6 r^4 R^4-67908 l^4 r^6 R^4+53354 l^2 r^8 R^4-12642 r^{10} R^4-1640 l^8 r R^5+30560 l^6 r^3 R^5-114928 l^4 r^5 R^5+132448 l^2 r^7 R^5-42344 r^9 R^5-195 l^8 R^6+15136 l^6 r^2 R^6-119802 l^4 r^4 R^6+220832 l^2 r^6 R^6-99587 r^8 R^6+3120 l^6 r R^7-71728 l^4 r^3 R^7+241968 l^2 r^5 R^7-164144 r^7 R^7+188 l^6 R^8-21204 l^4 r^2 R^8+164660 l^2 r^4 R^8-185308 r^6 R^8-2256 l^4 r R^9+62112 l^2 r^3 R^9-136144 r^5 R^9-64 l^4 R^{10}+10352 l^2 r^2 R^{10}-59008 r^4 R^{10}+512 l^2 r R^{11}-12544 r^3 R^{11}-1024 r^2 R^{12}\big)\big/\big((1-r-2R)^2\,(1+r+2R)^2\,(l^2-r^2-4 r R)^2\,(l^2-r^2-4 r R-5 R^2)^2\big)\big)\}$$

$$\{X24,\ \text{PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE},\ X67,\ \text{ISOGONAL CONJUGATE OF } X(23),\ -\big(\big(l^{12}-18 l^{10} r^2+63 l^8 r^4-92 l^6 r^6+63 l^4 r^8-18 l^2 r^{10}+r^{12}-24 l^{10} r R+312 l^8 r^3 R-816 l^6 r^5 R+816 l^4 r^7 R-312 l^2 r^9 R+24 r^{11} R-11 l^{10} R^2+475 l^8 r^2 R^2-2762 l^6 r^4 R^2+4394 l^4 r^6 R^2-2347 l^2 r^8 R^2+251 r^{10} R^2+220 l^8 r R^3-4320 l^6 r^3 R^3+12552 l^4 r^5 R^3-9952 l^2 r^7 R^3+1500 r^9 R^3+40 l^8 R^4-2952 l^6 r^2 R^4+20064 l^4 r^4 R^4-25864 l^2 r^6 R^4+5640 r^8 R^4-640 l^6 r R^5+17216 l^4 r^3 R^5-41920 l^2 r^5 R^5+13824 r^7 R^5-57 l^6 R^6+6711 l^4 r^2 R^6-41143 l^2 r^4 R^6+22073 r^6 R^6+684 l^4 r R^7-22408 l^2 r^3 R^7+22188 r^5 R^7+36 l^4 R^8-5508 l^2 r^2 R^8+13012 r^4 R^8-288 l^2 r R^9+3936 r^3 R^9+576 r^2 R^{10}\big)\big/\big((l^2-r^2-4 r R)^2\,(2 l^2-2 r^2-8 r R-9 R^2)\,(l^2-r^2-4 r R-5 R^2)^2\big)\big)\}$$

$$\{X24,\ \text{PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE},\ X68,\ \text{PRASOLOV POINT},\ -\frac{1}{(1-r-2R)^2\,(1+r+2R)^2\,(l^2-r^2-4 r R-5 R^2)^2}\,(l^{10}-9 l^8 r^2+22 l^6 r^4-22 l^4 r^6+9 l^2 r^8-r^{10}-20 l^8 r R+128 l^6 r^3 R-216 l^4 r^5 R+128 l^2 r^7 R-20 r^9 R-17 l^8 R^2+284 l^6 r^2 R^2-886 l^4 r^4 R^2+796 l^2 r^6 R^2-177 r^8 R^2+272 l^6 r R^3-1904 l^4 r^3 R^3+2800 l^2 r^5 R^3-912 r^7 R^3+112 l^6 R^4-2232 l^4 r^2 R^4+6040 l^2 r^4 R^4-3024 r^6 R^4-1344 l^4 r R^5+8096 l^2 r^3 R^5-6720 r^5 R^5-355 l^4 R^6+6506 l^2 r^2 R^6-10083 r^4 R^6+2840 l^2 r R^7-10008 r^3 R^7+540 l^2 R^8-6220 r^2 R^8-2160 r R^9-324 R^{10})\}$$

$$\{X24,\ \text{PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE},\ X69,\ \text{SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},\ \frac{1}{(l^2-r^2-4 r R)^2\,(l^2-r^2-4 r R-5 R^2)^2}\,(8 l^8 r^2-24 l^6 r^4+24 l^4 r^6-8 l^2 r^8-96 l^6 r^3 R+192 l^4 r^5 R-96 l^2 r^7 R-l^8 R^2-116 l^6 r^2 R^2+618 l^4 r^4 R^2-500 l^2 r^6 R^2-r^8 R^2+16 l^6 r R^3+912 l^4 r^3 R^3-1424 l^2 r^5 R^3-16 r^7 R^3+4 l^6 R^4+532 l^4 r^2 R^4-2356 l^2 r^4 R^4-100 r^6 R^4-48 l^4 r R^5-2208 l^2 r^3 R^5-304 r^5 R^5+4 l^4 R^6-1016 l^2 r^2 R^6-444 r^4 R^6-32 l^2 r R^7-224 r^3 R^7+64 r^2 R^8)\}$$

$$\{X24,\ \text{PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE},\ X70,\ \text{ISOGONAL CONJUGATE OF } X(26),$$
$$-\Big(\big(l^{14}-11\,l^{12}r^2+41\,l^{10}r^4-75\,l^8r^6+75\,l^6r^8-41\,l^4r^{10}+11\,l^2r^{12}-r^{14}-28\,l^{12}r\,R+248\,l^{10}r^3R-$$
$$740\,l^8r^5R+1040\,l^6r^7R-740\,l^4r^9R+248\,l^2r^{11}R-28\,r^{13}R-20\,l^{12}R^2+532\,l^{10}r^2R^2-$$
$$2924\,l^8r^4R^2+6136\,l^6r^6R^2-5884\,l^4r^8R^2+2516\,l^2r^{10}R^2-356\,r^{12}R^2+480\,l^{10}r\,R^3-$$
$$5856\,l^8r^3R^3+19\,968\,l^6r^5R^3-27\,008\,l^4r^7R^3+15\,136\,l^2r^9R^3-2720\,r^{11}R^3+164\,l^{10}R^4-$$
$$6196\,l^8r^2R^4+38\,824\,l^6r^4R^4-78\,760\,l^4r^6R^4+59\,892\,l^2r^8R^4-13\,924\,r^{10}R^4-3280\,l^8r\,R^5+$$
$$45\,632\,l^6r^3R^5-151\,264\,l^4r^5R^5+163\,392\,l^2r^7R^5-50\,384\,r^9R^5-712\,l^8R^6+31\,272\,l^6r^2R^6-$$
$$191\,808\,l^4r^4R^6+313\,128\,l^2r^6R^6-132\,424\,r^8R^6+11\,392\,l^6r\,R^7-156\,608\,l^4r^3R^7+$$
$$421\,312\,l^2r^5R^7-255\,616\,r^7R^7+1763\,l^6R^8-77\,797\,l^4r^2R^8+391\,013\,l^2r^4R^8-361\,955\,r^6R^8-$$
$$21\,156\,l^4r\,R^9+241\,208\,l^2r^3R^9-371\,364\,r^5R^9-2488\,l^4R^{10}+92\,780\,l^2r^2R^{10}-269\,384\,r^4R^{10}+$$
$$19\,904\,l^2r\,R^{11}-132\,736\,r^3R^{11}+1856\,l^2R^{12}-41\,664\,r^2R^{12}-7424\,r\,R^{13}-576\,R^{14}\big)\Big/$$
$$\big((l^2-r^2-4\,r\,R-5\,R^2)^2\,(l^4-2\,l^2r^2+r^4-8\,l^2r\,R+8\,r^3R-6\,l^2R^2+22\,r^2R^2+24\,r\,R^3+7\,R^4)^2\big)\Big)\}$$

$$\{X24,\ \text{PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE},\ X71,$$
$$\text{ISOGONAL CONJUGATE OF } X(27),\ \frac{1}{(l^2-r^2-4\,r\,R-5\,R^2)^2\,(l^2+r^2+6\,r\,R+8\,R^2)^2}$$
$$R^2\,\big(6\,l^8-18\,l^6r^2+26\,l^4r^4-14\,l^2r^6-80\,l^6r\,R+208\,l^4r^3R-160\,l^2r^5R-99\,l^6R^2+$$
$$627\,l^4r^2R^2-761\,l^2r^4R^2+r^6R^2+848\,l^4r\,R^3-1920\,l^2r^3R^3+16\,r^5R^3+440\,l^4R^4-$$
$$2688\,l^2r^2R^4+104\,r^4R^4-1952\,l^2r\,R^5+352\,r^3R^5-560\,l^2R^6+656\,r^2R^6+640\,r\,R^7+256\,R^8\big)\}$$

$$\{X24,\ \text{PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE},$$
$$X72,\ \text{ISOGONAL CONJUGATE OF } X(28),\ \frac{1}{R\,(-l^2+r^2+4\,r\,R+5\,R^2)^2}$$
$$\big(l^6r-3\,l^4r^3+3\,l^2r^5-r^7-13\,l^4r^2R+26\,l^2r^4R-13\,r^6R-15\,l^4r\,R^2+88\,l^2r^3R^2-73\,r^5R^2-$$
$$l^4R^3+138\,l^2r^2R^3-225\,r^4R^3+86\,l^2r\,R^4-400\,r^3R^4+4\,l^2R^5-387\,r^2R^5-156\,r\,R^6+4\,R^7\big)\}$$

$$\{X24,\ \text{PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE},\ X73,$$
$$\text{CROSSPOINT OF INCENTER AND CIRCUMCENTER},\ -\frac{1}{(l^2-r^2-4\,r\,R-5\,R^2)^2\,(l^2+r^2-2\,r\,R-4\,R^2)^2}$$
$$R^2\,\big(14\,l^6r^2-26\,l^4r^4+18\,l^2r^6-6\,r^8-4\,l^6r\,R-132\,l^4r^3R+180\,l^2r^5R-76\,r^7R+l^6R^2-$$
$$145\,l^4r^2R^2+659\,l^2r^4R^2-427\,r^6R^2+44\,l^4r\,R^3+1032\,l^2r^3R^3-1316\,r^5R^3-12\,l^4R^4+$$
$$488\,l^2r^2R^4-2284\,r^4R^4-160\,l^2r\,R^5-2016\,r^3R^5+48\,l^2R^6-528\,r^2R^6+192\,r\,R^7-64\,R^8\big)\}$$

$$\{X24,\ \text{PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE},$$
$$X74,\ \text{ISOGONAL CONJUGATE OF EULER INFINITY POINT},$$
$$\big(R^2\,\big(3\,l^6-5\,l^4r^2+5\,l^2r^4-3\,r^6-36\,l^4r\,R+56\,l^2r^3R-36\,r^5R-56\,l^4R^2+236\,l^2r^2R^2-$$
$$200\,r^4R^2+448\,l^2r\,R^3-640\,r^3R^3+320\,l^2R^4-1216\,r^2R^4-1280\,r\,R^5-576\,R^6\big)\big)\Big/$$
$$\big((2\,l^2-2\,r^2-8\,r\,R-9\,R^2)\,(l^2-r^2-4\,r\,R-5\,R^2)^2\big)\}$$

$$\{X24,\ \text{PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE},\ X75,$$
$$\text{ISOTOMIC CONJUGATE OF INCENTER},\ -\frac{1}{(l^2+r^2+4\,r\,R)^2\,(l^2-r^2-4\,r\,R-5\,R^2)^2}$$
$$R\,\big(8\,l^8r-40\,l^6r^3+56\,l^4r^5-24\,l^2r^7+l^8R-112\,l^6r^2R+350\,l^4r^4R-240\,l^2r^6R+r^8R-88\,l^6r\,R^2+$$
$$816\,l^4r^3R^2-1000\,l^2r^5R^2+16\,r^7R^2-4\,l^6R^3+764\,l^4r^2R^3-2140\,l^2r^4R^3+100\,r^6R^3+224\,l^4r\,R^4-$$
$$2320\,l^2r^3R^4+304\,r^5R^4-4\,l^4R^5-984\,l^2r^2R^5+444\,r^4R^5-32\,l^2r\,R^6+224\,r^3R^6-64\,r^2R^7\big)\}$$

$$\{X24,\ \text{PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE},\ X76,\ \text{3rd BROCARD POINT},$$
$$-\Big(\Big(R^2\big(l^{12}+34\,l^{10}r^2-257\,l^8r^4+444\,l^6r^6-257\,l^4r^8+34\,l^2r^{10}+r^{12}-24\,l^{10}r\,R-$$
$$520\,l^8r^3R+2576\,l^6r^5R-2576\,l^4r^7R+520\,l^2r^9R+24\,r^{11}R-4\,l^{10}R^2-140\,l^8r^2R^2+$$
$$5064\,l^6r^4R^2-10\,216\,l^4r^6R^2+3260\,l^2r^8R^2+244\,r^{10}R^2+80\,l^8r\,R^3+3200\,l^6r^3R^3-$$
$$19\,616\,l^4r^5R^3+10\,880\,l^2r^7R^3+1360\,r^9R^3-4\,l^8R^4+384\,l^6r^2R^4-17\,784\,l^4r^4R^4+$$
$$20\,864\,l^2r^6R^4+4476\,r^8R^4+64\,l^6r\,R^5-5696\,l^4r^3R^5+22\,592\,l^2r^5R^5+8640\,r^7R^5-$$
$$384\,l^4r^2R^6+11\,776\,l^2r^4R^6+8832\,r^6R^6+1024\,l^2r^3R^7+3072\,r^5R^7-1024\,r^4R^8\big)\Big)\Big/$$
$$\Big(\big(l^2-r^2-4\,r\,R-5\,R^2\big)^2\big(l^4+2\,l^2r^2+r^4-8\,l^2r\,R+8\,r^3R+16\,r^2R^2\big)^2\Big)\Big)\Big\}$$

$$\{X24,\ \text{PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE},\ X77,$$
$$\text{ISOGONAL CONJUGATE OF } X(33),\ -\frac{1}{\big(l^2-r^2-4\,r\,R-5\,R^2\big)^2\big(l^2-r\,R-4\,R^2\big)^2}$$
$$R\big(l^8r-3\,l^6r^3+3\,l^4r^5-l^2r^7-8\,l^6r^2R+18\,l^4r^4R-10\,l^2r^6R-17\,l^6r\,R^2+54\,l^4r^3R^2-45\,l^2r^5R^2+$$
$$l^6R^3+96\,l^4r^2R^3-124\,l^2r^4R^3+r^6R^3+102\,l^4r\,R^4-254\,l^2r^3R^4+16\,r^5R^4-12\,l^4R^5-$$
$$368\,l^2r^2R^5+100\,r^4R^5-256\,l^2r\,R^6+304\,r^3R^6+48\,l^2R^7+444\,r^2R^7+224\,r\,R^8-64\,R^9\big)\Big\}$$

$$\{X24,\ \text{PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE},\ X78,$$
$$\text{ISOGONAL CONJUGATE OF } X(34),\ -\Big(\Big(R\big(-l^6r+3\,l^4r^3-3\,l^2r^5+r^7+14\,l^4r^2R-26\,l^2r^4R+$$
$$12\,r^6R+13\,l^4r\,R^2-86\,l^2r^3R^2+65\,r^5R^2+l^4R^3-127\,l^2r^2R^3+196\,r^4R^3-74\,l^2r\,R^4+$$
$$346\,r^3R^4-4\,l^2R^5+340\,r^2R^5+144\,r\,R^6-4\,R^7\big)\Big)\Big/\Big((r-R)^2\big(-l^2+r^2+4\,r\,R+5\,R^2\big)^2\Big)\Big)\Big\}$$

$$\{X24,\ \text{PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE},\ X79,\ \text{ISOGONAL CONJUGATE OF } X(35),$$
$$\big(-12\,l^6r^2+28\,l^4r^4-20\,l^2r^6+4\,r^8-6\,l^6r\,R+134\,l^4r^3R-186\,l^2r^5R+58\,r^7R+200\,l^4r^2R^2-680\,l^2r^4R^2+$$
$$352\,r^6R^2+54\,l^4r\,R^3-1172\,l^2r^3R^3+1150\,r^5R^3-866\,l^2r^2R^4+2146\,r^4R^4-132\,l^2r\,R^5+$$
$$2192\,r^3R^5-9\,l^2R^6+1003\,r^2R^6+84\,r\,R^7+36\,R^8\big)\Big/\Big((2\,r+3\,R)^2\big(-l^2+r^2+4\,r\,R+5\,R^2\big)^2\Big)\Big\}$$

$$\{X24,\ \text{PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE},$$
$$X80,\ \text{REFLECTION OF INCENTER IN FEUERBACH POINT},$$
$$\big(-2\,l^6r+10\,l^4r^3-14\,l^2r^5+6\,r^7+28\,l^4r^2R-88\,l^2r^4R+60\,r^6R+$$
$$22\,l^4r\,R^2-208\,l^2r^3R^2+250\,r^5R^2-210\,l^2r^2R^3+546\,r^4R^3-78\,l^2r\,R^4+$$
$$646\,r^3R^4+l^2R^5+381\,r^2R^5+84\,r\,R^6-4\,R^7\big)\Big/\Big((2\,r-R)\big(-l^2+r^2+4\,r\,R+5\,R^2\big)^2\Big)\Big\}$$

$$\{X24,\ \text{PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE},$$
$$X81,\ \text{CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},$$
$$-\Big(\Big(R\big(l^8r-2\,l^4r^5+r^9+2\,l^6r^2R-22\,l^4r^4R+6\,l^2r^6R+14\,r^8R-9\,l^6r\,R^2-57\,l^4r^3R^2+49\,l^2r^5R^2+81\,r^7$$
$$R^2+l^6R^3-52\,l^4r^2R^3+169\,l^2r^4R^3+250\,r^6R^3+14\,l^4r\,R^4+276\,l^2r^3R^4+438\,r^5R^4-4\,l^4R^5+192$$
$$l^2r^2R^5+416\,r^4R^5+8\,l^2r\,R^6+168\,r^3R^6-4\,r^2R^7\big)\Big)\Big/\Big(\big(l^2-r^2-r\,R\big)^2\big(l^2-r^2-4\,r\,R-5\,R^2\big)^2\Big)\Big)\Big\}$$

$$\{X24,\ \text{PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE},\ X82,\ \text{ISOGONAL CONJUGATE OF } X(38),$$
$$-\Big(\Big(R\big(l^{12}r-3\,l^8r^5+3\,l^4r^9-r^{13}-16\,l^{10}r^2R-24\,l^8r^4R+96\,l^6r^6R-80\,l^4r^8R+48\,l^2r^{10}R-$$
$$24\,r^{12}R-9\,l^{10}r\,R^2+63\,l^8r^3R^2+410\,l^6r^5R^2-838\,l^4r^7R^2+623\,l^2r^9R^2-249\,r^{11}R^2+$$
$$l^{10}R^3+104\,l^8r^2R^3+382\,l^6r^4R^3-2864\,l^4r^6R^3+3329\,l^2r^8R^3-1464\,r^{10}R^3-2\,l^8r\,R^4-$$
$$96\,l^6r^3R^4-4324\,l^4r^5R^4+9408\,l^2r^7R^4-5370\,r^9R^4-4\,l^8R^5+56\,l^6r^2R^5-2968\,l^4r^4R^5+$$
$$15\,016\,l^2r^6R^5-12\,740\,r^8R^5+72\,l^6r\,R^6-1352\,l^4r^3R^6+13\,576\,l^2r^5R^6-19\,592\,r^7R^6-$$
$$548\,l^4r^2R^7+6984\,l^2r^4R^7-19\,012\,r^6R^7+2016\,l^2r^3R^8-10\,912\,r^5R^8-3136\,r^4R^9\big)\Big)\Big/$$
$$\Big(\big(l^2-r^2-4\,r\,R-5\,R^2\big)^2\big(l^4-4\,l^2r^2+3\,r^4-9\,l^2r\,R+19\,r^3R+28\,r^2R^2\big)^2\Big)\Big)\Big\}$$

$$\{X24,\ \text{PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE},$$
$$X83,\ \text{CEVAPOINT OF CENTROID AND SYMMEDIAN POINT},$$
$$-\Big(\big(4 l^{14}+4 l^{12} r^2-12 l^{10} r^4-12 l^8 r^6+12 l^6 r^8+12 l^4 r^{10}-4 l^2 r^{12}-4 r^{14}-112 l^{12} r R+32 l^{10} r^3 R+$$
$$112 l^8 r^5 R-64 l^6 r^7 R+112 l^4 r^9 R+32 l^2 r^{11} R-112 r^{13} R-35 l^{12} R^2+1306 l^{10} r^2 R^2-1821 l^8 r^4 R^2+$$
$$1740 l^6 r^6 R^2-1373 l^4 r^8 R^2+1562 l^2 r^{10} R^2-1379 r^{12} R^2+840 l^{10} r R^3-9192 l^8 r^3 R^3+$$
$$17360 l^6 r^5 R^3-18896 l^4 r^7 R^3+15592 l^2 r^9 R^3-9800 r^{11} R^3+100 l^{10} R^4-8500 l^8 r^2 R^4+$$
$$47736 l^6 r^4 R^4-82456 l^4 r^6 R^4+76452 l^2 r^8 R^4-44340 r^{10} R^4-2000 l^8 r R^5+48000 l^6 r^3 R^5-$$
$$168544 l^4 r^5 R^5+213376 l^2 r^7 R^5-132816 r^9 R^5-100 l^8 R^6+16640 l^6 r^2 R^6-166584 l^4 r^4 R^6+$$
$$349440 l^2 r^6 R^6-265188 r^8 R^6+1600 l^6 r R^7-70720 l^4 r^3 R^7+324160 l^2 r^5 R^7-346176 r^7 R^7-$$
$$9600 l^4 r^2 R^8+151040 l^2 r^4 R^8-280960 r^6 R^8+25600 l^2 r^3 R^9-128000 r^5 R^9-25600 r^4 R^{10}\big)\Big/$$
$$\big(\big(l^2-r^2-4 r R-5 R^2\big)^2\big(5 l^4-6 l^2 r^2+5 r^4-40 l^2 r R+40 r^3 R+80 r^2 R^2\big)^2\big)\Big)\}$$

$$\{X24,\ \text{PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE},$$
$$X84,\ \text{ISOGONAL CONJUGATE OF X(40)},\ \frac{1}{r^2\big(-l^2+r^2+4 r R+5 R^2\big)^2}$$
$$R\big(2 l^6 r-4 l^4 r^3+2 l^2 r^5-4 l^6 R-6 l^4 r^2 R+10 l^2 r^4 R+14 l^4 r R^2+6 l^2 r^3 R^2+4 r^5 R^2+56 l^4 R^3-$$
$$91 l^2 r^2 R^3+49 r^4 R^3-264 l^2 r R^4+232 r^3 R^4-260 l^2 R^5+564 r^2 R^5+720 r R^6+400 R^7\big)\}$$

$$\{X24,\ \text{PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE},\ X85,$$
$$\text{ISOTOMIC CONJUGATE OF X(9)},\ -\frac{1}{\big(l^2-r^2-4 r R-5 R^2\big)^2\big(l^2+r^2+8 r R+16 R^2\big)^2}$$
$$R\big(24 l^8 r-56 l^6 r^3+40 l^4 r^5-8 l^2 r^7+17 l^8 R-288 l^6 r^2 R+398 l^4 r^4 R-128 l^2 r^6 R+$$
$$r^8 R-480 l^6 r R^2+1576 l^4 r^3 R^2-864 l^2 r^5 R^2+24 r^7 R^2-148 l^6 R^3+2988 l^4 r^2 R^3-$$
$$3212 l^2 r^4 R^3+244 r^6 R^3+2496 l^4 r R^4-7056 l^2 r^3 R^4+1360 r^5 R^4+348 l^4 R^5-8760 l^2 r^2 R^5+$$
$$4476 r^4 R^5-4800 l^2 r R^6+8640 r^3 R^6+128 l^2 R^7+8832 r^2 R^7+3072 r R^8-1024 R^9\big)\}$$

$$\{X24,\ \text{PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE},$$
$$X86,\ \text{CEVAPOINT OF INCENTER AND CENTROID},$$
$$-\frac{1}{\big(5 l^2+r^2+4 r R\big)^2\big(l^2-r^2-4 r R-5 R^2\big)^2}\big(4 l^{10}-8 l^6 r^4+4 l^2 r^8-32 l^8 r R-32 l^6 r^3 R+$$
$$32 l^4 r^5 R+32 l^2 r^7 R-35 l^8 R^2+44 l^6 r^2 R^2+162 l^4 r^4 R^2+84 l^2 r^6 R^2+r^8 R^2+144 l^6 r R^3+$$
$$272 l^4 r^3 R^3+16 l^2 r^5 R^3+16 r^7 R^3+100 l^6 R^4+44 l^4 r^2 R^4-276 l^2 r^4 R^4+100 r^6 R^4-80 l^4 r R^5-$$
$$416 l^2 r^3 R^5+304 r^5 R^5-100 l^4 R^6-184 l^2 r^2 R^6+444 r^4 R^6-160 l^2 r R^7+224 r^3 R^7-64 r^2 R^8\big)\}$$

$$\{X24,\ \text{PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE},\ X87,\ X(2)\text{-CROSS CONJUGATE OF X(1)},$$
$$\Big(R\big(2 l^{12} r+4 l^{10} r^3-2 l^8 r^5-8 l^6 r^7-2 l^4 r^9+4 l^2 r^{11}+2 r^{13}-74 l^{10} r^2 R-46 l^8 r^4 R+76 l^6 r^6 R+$$
$$20 l^4 r^8 R-2 l^2 r^{10} R+26 r^{12} R-18 l^{10} r R^2+930 l^8 r^3 R^2+28 l^6 r^5 R^2-684 l^4 r^7 R^2+310 l^2 r^9 R^2+$$
$$74 r^{11} R^2-l^{10} R^3+583 l^8 r^2 R^3-5354 l^6 r^4 R^3+846 l^4 r^6 R^3+2171 l^2 r^8 R^3-517 r^{10} R^3+$$
$$84 l^8 r R^4-6096 l^6 r^3 R^4+13656 l^4 r^5 R^4+2928 l^2 r^7 R^4-4620 r^9 R^4+4 l^8 R^5-1728 l^6 r^2 R^5+$$
$$26472 l^4 r^4 R^5-9696 l^2 r^6 R^5-15372 r^8 R^5-160 l^6 r R^6+11872 l^4 r^3 R^6-32608 l^2 r^5 R^6-$$
$$26208 r^7 R^6+1856 l^4 r^2 R^7-30592 l^2 r^4 R^7-21184 r^6 R^7-5120 l^2 r^3 R^8-3072 r^5 R^8+4096 r^4 R^9\big)\Big)\Big/$$
$$\big(\big(l^2-r^2-4 r R-5 R^2\big)^2\big(l^4+2 l^2 r^2+r^4-20 l^2 r R+12 r^3 R+32 r^2 R^2\big)^2\big)\}$$

$$\{X24,\ \text{PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE},\ X88,$$
$$\text{ISOGONAL CONJUGATE OF X(44)},\ \frac{1}{\big(l^2+3 r^2-15 r R\big)^2\big(l^2-r^2-4 r R-5 R^2\big)^2}$$
$$R\big(l^8 r+4 l^6 r^3-38 l^4 r^5+60 l^2 r^7-27 r^9-34 l^6 r^2 R-26 l^4 r^4 R+330 l^2 r^6 R-270 r^8 R-9 l^6 r R^2+$$
$$339 l^4 r^3 R^2+177 l^2 r^5 R^2-891 r^7 R^2-l^6 R^3+260 l^4 r^2 R^3-1449 l^2 r^4 R^3-666 r^6 R^3+54 l^4 r R^4-$$
$$2052 l^2 r^3 R^4+2214 r^5 R^4+4 l^4 R^5-816 l^2 r^2 R^5+4896 r^4 R^5-120 l^2 r R^6+3240 r^3 R^6+900 r^2 R^7\big)\}$$

$$\Big\{\text{X24, PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE, X89, ISOGONAL CONJUGATE OF X(45)}, -\frac{1}{\left(2 l^2-6 r^2+3 r R\right)^2 \left(l^2-r^2-4 r R-5 R^2\right)^2}$$
$$R \left(2 l^8 r+20 l^6 r^3+8 l^4 r^5-84 l^2 r^7+54 r^9+58 l^6 r^2 R-118 l^4 r^4 R-642 l^2 r^6 R+702 r^8 R-18 l^6 r R^2-414 l^4 r^3 R^2-1758 l^2 r^5 R^2+3726 r^7 R^2+4 l^6 R^3-605 l^4 r^2 R^3-1674 l^2 r^4 R^3+10467 r^6 R^3+36 l^4 r R^4+216 l^2 r^3 R^4+16740 r^5 R^4-16 l^4 R^5+1452 l^2 r^2 R^5+14868 r^4 R^5-48 l^2 r R^6+6048 r^3 R^6-36 r^2 R^7\right)\Big\}$$

$$\Big\{\text{X24, PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE, X90, X(3)-CROSS CONJUGATE OF X(1)},$$
$$\left(R \left(2 l^6 r^3-4 l^4 r^5+2 l^2 r^7-4 l^6 r^2 R-6 l^4 r^4 R+10 l^2 r^6 R+2 l^6 r R^2+10 l^4 r^3 R^2+12 l^2 r^5 R^2+18 l^4 r^2 R^3-19 l^2 r^4 R^3-r^6 R^3-22 l^4 r R^4-34 l^2 r^3 R^4-12 r^5 R^4+38 l^2 r^2 R^5-58 r^4 R^5+80 l^2 r R^6-144 r^3 R^6-l^2 R^7-181 r^2 R^7-92 r R^8+4 R^9\right)\right) \Big/ \left(\left(l^2-r^2-4 r R-5 R^2\right)^2 \left(r^2+2 r R-R^2\right)^2\right)\Big\}$$

$$\Big\{\text{X24, PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE, X91, ISOGONAL CONJUGATE OF X(47)}, \frac{1}{\left(l^2-r^2-4 r R-5 R^2\right)^2 \left(l^2 r+r^3-l^2 R+3 r^2 R+2 r R^2+2 R^3\right)^2}$$
$$R \left(l^{10} r-11 l^8 r^3+38 l^6 r^5-50 l^4 r^7+25 l^2 r^9-3 r^{11}-23 l^8 r^2 R+176 l^6 r^4 R-402 l^4 r^6 R+304 l^2 r^8 R-55 r^{10} R-15 l^8 r R^2+338 l^6 r^3 R^2-1368 l^4 r^5 R^2+1614 l^2 r^7 R^2-441 r^9 R^2+280 l^6 r^2 R^3-2464 l^4 r^4 R^3+4824 l^2 r^6 R^3-2032 r^8 R^3+88 l^6 r R^4-2464 l^4 r^3 R^4+8792 l^2 r^5 R^4-5936 r^7 R^4-l^6 R^5-1239 l^4 r^2 R^5+9901 l^2 r^4 R^5-11421 r^6 R^5-240 l^4 r R^6+6632 l^2 r^3 R^6-14536 r^5 R^6+8 l^4 R^7+2312 l^2 r^2 R^7-11936 r^4 R^7+288 l^2 r R^8-5920 r^3 R^8-20 l^2 R^9-1508 r^2 R^9-112 r R^{10}+16 R^{11}\right)\Big\}$$

$$\Big\{\text{X24, PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE, X92, CEVAPOINT OF INCENTER AND CLAWSON POINT},$$
$$-\left(\left((l-r-2 R)^2 R (l+r+2 R)^2 \left(12 l^4 r-16 l^2 r^3+4 r^5+l^4 R-70 l^2 r^2 R+41 r^4 R-100 l^2 r R^2+156 r^3 R^2-4 l^2 R^3+268 r^2 R^3+184 r R^4-4 R^5\right)\right) \Big/ \left(\left(l^2-r^2-4 r R-5 R^2\right)^2 \left(l^2+r^2-4 R^2\right)^2\right)\right)\Big\}$$

$$\Big\{\text{X24, PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE, X93, ISOGONAL CONJUGATE OF X(49)}, \left((l-r-2 R)^2 R^2 (l+r+2 R)^2 \left(3 l^8-68 l^6 r^2+114 l^4 r^4-68 l^2 r^6+3 r^8-48 l^6 r R+592 l^4 r^3 R-592 l^2 r^5 R+48 r^7 R-34 l^6 R^2+894 l^4 r^2 R^2-2078 l^2 r^4 R^2+322 r^6 R^2+408 l^4 r R^3-3600 l^2 r^3 R^3+1176 r^5 R^3+124 l^4 R^4-2984 l^2 r^2 R^4+2524 r^4 R^4-992 l^2 r R^5+3168 r^3 R^5-162 l^2 R^6+2146 r^2 R^6+648 r R^7+81 R^8\right)\right) \Big/ \left(\left(l^2-r^2-4 r R-5 R^2\right)^2 \left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-8 l^2 R^2+24 r^2 R^2+32 r R^3+13 R^4\right)^2\right)\Big\}$$

$$\Big\{\text{X24, PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE, X94, ISOGONAL CONJUGATE OF X(50)},$$
$$\left(R^2 \left(5 l^{12}-70 l^{10} r^2+251 l^8 r^4-372 l^6 r^6+251 l^4 r^8-70 l^2 r^{10}+5 r^{12}-120 l^{10} r R+1240 l^8 r^3 R-3248 l^6 r^5 R+3248 l^4 r^7 R-1240 l^2 r^9 R+120 r^{11} R-92 l^{10} R^2+2276 l^8 r^2 R^2-11568 l^6 r^4 R^2+18064 l^4 r^6 R^2-9716 l^2 r^8 R^2+1292 r^{10} R^2+1840 l^8 r R^3-21152 l^6 r^3 R^3+55904 l^4 r^5 R^3-44192 l^2 r^7 R^3+8240 r^9 R^3+682 l^8 R^4-20928 l^6 r^2 R^4+104364 l^4 r^4 R^4-128576 l^2 r^6 R^4+34602 r^8 R^4-10912 l^6 r R^5+119456 l^4 r^3 R^5-248480 l^2 r^5 R^5+100512 r^7 R^5-2616 l^6 R^6+81888 l^4 r^2 R^6-320800 l^2 r^4 R^6+206328 r^6 R^6+31392 l^4 r R^7-271648 l^2 r^3 R^7+300192 r^5 R^7+5517 l^4 R^8-144378 l^2 r^2 R^8+305677 r^4 R^8-44136 l^2 r R^9+211560 r^3 R^9-6156 l^2 R^{10}+94428 r^2 R^{10}+24624 r R^{11}+2916 R^{12}\right)\right) \Big/ \left(\left(l^2-r^2-4 r R-5 R^2\right)^2 \left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-12 l^2 R^2+28 r^2 R^2+48 r R^3+27 R^4\right)^2\right)\Big\}$$

$$\Big\{\text{X24, PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE, X95, CEVAPOINT OF CENTROID AND CIRCUMCENTER},$$
$$-\left(\left(R^2 \left(l^{12}+98 l^{10} r^2-257 l^8 r^4+316 l^6 r^6-257 l^4 r^8+98 l^2 r^{10}+r^{12}-24 l^{10} r R-1544 l^8 r^3 R+3600 l^6 r^5 R-3600 l^4 r^7 R+1544 l^2 r^9 R+24 r^{11} R-12 l^{10} R^2-1188 l^8 r^2 R^2+12728 l^6 r^4 R^2-19928 l^4 r^6 R^2+10452 l^2 r^8 R^2+252 r^{10} R^2+240 l^8 r R^3+15616 l^6 r^3 R^3-54496 l^4 r^5 R^3+39680 l^2 r^7 R^3+1520 r^9 R^3+44 l^8 R^4+5952 l^6 r^2 R^4-77656 l^4 r^4 R^4+92480 l^2 r^6 R^4+5804 r^8 R^4-704 l^6 r R^5-54592 l^4 r^3 R^5+136000 l^2 r^5 R^5+14528 r^7 R^5-32 l^6 R^6-15520 l^4 r^2 R^6+124704 l^2 r^4 R^6+23712 r^6 R^6+384 l^4 r R^7+67328 l^2 r^3 R^7+23936 r^5 R^7-64 l^4 R^8+17792 l^2 r^2 R^8+12736 r^4 R^8+512 l^2 r R^9+1536 r^3 R^9-1024 r^2 R^{10}\right)\right) \Big/ \left(\left(l^2-r^2-4 r R-5 R^2\right)^2 \left(l^4+18 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-4 l^2 R^2+20 r^2 R^2+16 r R^3\right)^2\right)\right)\Big\}$$

$$\{\text{X24, PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE, X96, ISOGONAL CONJUGATE OF X(52)}, \left(R^2 \left(l^2-r^2-4 r R-2 R^2\right)^2 \left(7 l^8-68 l^6 r^2+106 l^4 r^4-68 l^2 r^6+7 r^8-112 l^6 r R+656 l^4 r^3 R-656 l^2 r^5 R+112 r^7 R-92 l^6 R^2+1348 l^4 r^2 R^2-2660 l^2 r^4 R^2+764 r^6 R^2+1104 l^4 r R^3-5600 l^2 r^3 R^3+2896 r^5 R^3+420 l^4 R^4-6200 l^2 r^2 R^4+6628 r^4 R^4-3360 l^2 r R^5+9248 r^3 R^5-800 l^2 R^6+7520 r^2 R^6+3200 r R^7+576 R^8\right)\right) / \left(\left(l^2-r^2-4 r R-5 R^2\right)^2 \left(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2-4 R^4\right)^2\right)\}$$

$$\{\text{X24, PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE, X97, ISOGONAL CONJUGATE OF X(53)}, \left(R^2 \left(l^{12}-14 l^{10} r^2+63 l^8 r^4-100 l^6 r^6+63 l^4 r^8-14 l^2 r^{10}+r^{12}-24 l^{10} r R+248 l^8 r^3 R-752 l^6 r^5 R+752 l^4 r^7 R-248 l^2 r^9 R+24 r^{11} R-20 l^{10} R^2+488 l^8 r^2 R^2-2548 l^6 r^4 R^2+4052 l^4 r^6 R^2-1976 l^2 r^8 R^2+260 r^{10} R^2+400 l^8 r R^3-4656 l^6 r^3 R^3+12544 l^4 r^5 R^3-9264 l^2 r^7 R^3+1680 r^9 R^3+159 l^8 R^4-4856 l^6 r^2 R^4+24002 l^4 r^4 R^4-28088 l^2 r^6 R^4+7199 r^8 R^4-2544 l^6 r R^5+28592 l^4 r^3 R^5-57008 l^2 r^5 R^5+21488 r^7 R^5-636 l^6 R^6+20292 l^4 r^2 R^6-77476 l^2 r^4 R^6+45596 r^6 R^6+7632 l^4 r R^7-68448 l^2 r^3 R^7+68816 r^5 R^7+1332 l^4 R^8-36776 l^2 r^2 R^8+72564 r^4 R^8-10656 l^2 r R^9+51360 r^3 R^9-1376 l^2 R^{10}+22688 r^2 R^{10}+5504 r R^{11}+576 R^{12}\right)\right) / \left(\left(l^2-r^2-4 r R-5 R^2\right)^2 \left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-7 l^2 R^2+23 r^2 R^2+28 r R^3+12 R^4\right)^2\right)\}$$

$$\{\text{X24, PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE, X98, TarryPoint}, \left(R^2 \left(3 l^8-16 l^6 r^2+26 l^4 r^4-16 l^2 r^6+3 r^8-48 l^6 r R+176 l^4 r^3 R-176 l^2 r^5 R+48 r^7 R-28 l^6 R^2+404 l^4 r^2 R^2-756 l^2 r^4 R^2+316 r^6 R^2+336 l^4 r R^3-1568 l^2 r^3 R^3+1104 r^5 R^3+64 l^4 R^4-1520 l^2 r^2 R^4+2176 r^4 R^4-512 l^2 r R^5+2304 r^3 R^5+1024 r^2 R^6\right)\right) / \left(\left(l^2-r^2-4 r R-5 R^2\right)^2 \left(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)\right)\}$$

$$\{\text{X24, PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE, X99, STEINER POINT}, -\left(\left(R^2 \left(l^8+16 l^6 r^2-34 l^4 r^4+16 l^2 r^6+r^8-16 l^6 r R-112 l^4 r^3 R+112 l^2 r^5 R+16 r^7 R-4 l^6 R^2-148 l^4 r^2 R^2+372 l^2 r^4 R^2+100 r^6 R^2+48 l^4 r R^3+672 l^2 r^3 R^3+304 r^5 R^3-4 l^4 R^4+584 l^2 r^2 R^4+444 r^4 R^4+32 l^2 r R^5+224 r^3 R^5-64 r^2 R^6\right)\right) / \left(\left(l^2-r^2-4 r R-5 R^2\right)^2 \left(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)\right)\right)\}$$

$$\{\text{X24, PERSPECTOR OF ABC AND ORTHIC-OF-ORTHIC TRIANGLE, X100, ANTICOMPLEMENT OF FEUERBACH POINT}, \left(R^2 \left(2 l^4 r-4 l^2 r^3+2 r^5+l^4 R-22 l^2 r^2 R+21 r^4 R-36 l^2 r R^2+84 r^3 R^2-4 l^2 R^3+152 r^2 R^3+104 r R^4-4 R^5\right)\right) / \left((2 r-R) \left(-l^2+r^2+4 r R+5 R^2\right)^2\right)\}$$

$$\{\text{X25, HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES, X26, CIRCUMCENTER OF THE TANGENTIAL TRIANGLE}, -\frac{R^4 \left(2 l^2-2 r^2-8 r R-9 R^2\right) \left(l^2-r^2-4 r R-2 R^2\right)^2}{(l-r-2 R)^2 (l+r+2 R)^2 \left(l^2-r^2-4 r R-6 R^2\right)^2}\}$$

$$\{\text{X25, HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES, X27, CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER}, -\frac{(l-r-2 R)^2 (l+r+2 R)^2 \left(l^2+r^2+4 r R\right)^2 \left(2 l^2-2 r^2-8 r R-9 R^2\right)}{\left(l^2-3 r^2-12 r R-12 R^2\right)^2 \left(l^2-r^2-4 r R-6 R^2\right)^2}\}$$

$$\{\text{X25, HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES, X28, CEVAPOINT OF X(19) AND X(25)}, -\frac{r^2 (l-r-2 R)^2 R^2 (l+r+2 R)^2 \left(2 l^2-2 r^2-8 r R-9 R^2\right)}{\left(l^2-r^2-5 r R-6 R^2\right)^2 \left(l^2-r^2-4 r R-6 R^2\right)^2}\}$$

$$\{\text{X25, HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES, X29, CEVAPOINT OF INCENTER AND ORTHOCENTER}, -\frac{\left(l^2+r^2\right)^2 (l-r-2 R)^2 (l+r+2 R)^2 \left(2 l^2-2 r^2-8 r R-9 R^2\right)}{\left(3 l^2-r^2-8 r R-12 R^2\right)^2 \left(l^2-r^2-4 r R-6 R^2\right)^2}\}$$

$$\{\text{X25, HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES, X30, EulerInfinityPoint}, \infty\}$$

$$\{X25,\ \text{HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES},\ X31,\ \text{SecondPowerPoint},$$
$$-\left(\left(R^2\left(l^8+8l^6r^2-34l^4r^4+24l^2r^6+r^8-20l^6rR-44l^4r^3R+116l^2r^5R+12r^7R-4l^6R^2+24l^4r^2R^2+220l^2r^4R^2+48r^6R^2+64l^4rR^3+128l^2r^3R^3+64r^5R^3\right)\right)\Big/\left(\left(l^2-3r^2-6rR\right)^2\left(l^2-r^2-4rR-6R^2\right)^2\right)\right)\}$$

$$\{X25,\ \text{HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES},\ X32,\ \text{ThirdPowerPoint},$$
$$-\left(\left(R^2\left(l^{12}+6l^{10}r^2-65l^8r^4+116l^6r^6-65l^4r^8+6l^2r^{10}+r^{12}-24l^{10}rR-72l^8r^3R+592l^6r^5R-592l^4r^7R+72l^2r^9R+24r^{11}R-4l^{10}R^2+100l^8r^2R^2+952l^6r^4R^2-2136l^4r^6R^2+332l^2r^8R^2+244r^{10}R^2+80l^8rR^3+320l^6r^3R^3-3872l^4r^5R^3+832l^2r^7R^3+1360r^9R^3-208l^6r^2R^4-3360l^4r^4R^4+1584l^2r^6R^4+4480r^8R^4-896l^4r^3R^5+2432l^2r^5R^5+8704r^7R^5+1792l^2r^4R^6+9216r^6R^6+4096r^5R^7\right)\right)\Big/\left(\left(l^2-2lr-r^2-4rR\right)^2\left(l^2+2lr-r^2-4rR\right)^2\left(l^2-r^2-4rR-6R^2\right)^2\right)\right)\}$$

$$\{X25,\ \text{HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES},$$
$$X33,\ \text{PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES},$$
$$-\left(\left((l-r-2R)^2R(l+r+2R)^2\left(4l^4r-4l^2r^3+l^4R-18l^2r^2R+r^4R-36l^2rR^2+12r^3R^2-4l^2R^3+48r^2R^3+64rR^4\right)\right)\Big/\left(\left(l^2-r^2-4rR-6R^2\right)^2\left(l^2-r^2-2rR-4R^2\right)^2\right)\right)\}$$

$$\{X25,\ \text{HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES},$$
$$X34,\ X(4)\text{-BETH CONJUGATE OF } X(4),\ -\left(\left((l-r-2R)^2R(l+r+2R)^2\left(-4l^2r^3+4r^5+l^4R+6l^2r^2R+9r^4R-20l^2rR^2+12r^3R^2-4l^2R^3+32r^2R^3+64rR^4\right)\right)\Big/\left(\left(l^2-r^2-4rR-6R^2\right)^2\left(l^2-r^2-6rR-4R^2\right)^2\right)\right)\}$$

$$\{X25,\ \text{HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES},$$
$$X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),$$
$$\frac{R^3\left(-6l^4r+4l^2r^3+2r^5-l^4R+6l^2r^2R+27r^4R+44l^2rR^2+84r^3R^2+4l^2R^3+52r^2R^3-64rR^4\right)}{(2r+R)^2\left(-l^2+r^2+4rR+6R^2\right)^2}\}$$

$$\{X25,\ \text{HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES},$$
$$X36,\ \text{INVERSE-IN-CIRCUMCIRCLE OF INCENTER},$$
$$-\frac{R^3\left(-l^4-2l^2r^2+3r^4+20l^2rR-4r^3R+4l^2R^2-44r^2R^2-64rR^3\right)}{(2r-R)\left(-l^2+r^2+4rR+6R^2\right)^2}\}$$

$$\{X25,\ \text{HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES},$$
$$X37,\ \text{CrosspointOfIncenterAndCentroid},$$
$$-\left(\left(R\left(l^2-r^2-2rR\right)^2\left(4l^4r-4l^2r^3+l^4R-18l^2r^2R+r^4R-36l^2rR^2+12r^3R^2-4l^2R^3+48r^2R^3+64rR^4\right)\right)\Big/\left(\left(l^2+r^2+4rR\right)^2\left(l^2-r^2-4rR-6R^2\right)^2\right)\right)\}$$

$$\{X25,\ \text{HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES},$$
$$X38,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(75),\ -\frac{1}{\left(l^2+r^2-2rR\right)^2\left(l^2-r^2-4rR-6R^2\right)^2}$$
$$R\left(4l^8r-24l^6r^3+48l^4r^5-40l^2r^7+12r^9+l^8R-72l^6r^2R+302l^4r^4R-408l^2r^6R+177r^8R-52l^6rR^2+708l^4r^3R^2-1676l^2r^5R^2+1084r^7R^2-4l^6R^3+648l^4r^2R^3-3460l^2r^4R^3+3616r^6R^3+128l^4rR^4-3648l^2r^3R^4+7104r^5R^4-1280l^2r^2R^5+7936r^4R^5+4096r^3R^6\right)\}$$

$$\{X25,\ \text{HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES},\ X39,\ \text{BrocardMidpoint},$$
$$-\left(\left(R^2\left(l^{12}+22l^{10}r^2-65l^8r^4+84l^6r^6-65l^4r^8+22l^2r^{10}+r^{12}-24l^{10}rR-328l^8r^3R+848l^6r^5R-848l^4r^7R+328l^2r^9R+24r^{11}R-4l^{10}R^2+36l^8r^2R^2+2296l^6r^4R^2-3992l^4r^6R^2+1932l^2r^8R^2+244r^{10}R^2+80l^8rR^3+1088l^6r^3R^3-7968l^4r^5R^3+5696l^2r^7R^3+1360r^9R^3-208l^6r^2R^4-6432l^4r^4R^4+8752l^2r^6R^4+4480r^8R^4-896l^4r^3R^5+6528l^2r^5R^5+8704r^7R^5+1792l^2r^4R^6+9216r^6R^6+4096r^5R^7\right)\right)\Big/\left(\left(l^2-r^2-4rR-6R^2\right)^2\left(l^4+2l^2r^2+r^4-8l^2rR+8r^3R+16r^2R^2\right)^2\right)\right)\}$$

$$\left\{X25,\ \text{HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES},\ X40,\ \text{BEVAN POINT},\ -\frac{1}{\left(l^2-r^2-4\,r\,R-6\,R^2\right)^2}R\left(2\,l^4\,r-4\,l^2\,r^3+2\,r^5-3\,l^4\,R-14\,l^2\,r^2\,R+17\,r^4\,R-4\,l^2\,r\,R^2+52\,r^3\,R^2+44\,l^2\,R^3+44\,r^2\,R^3-80\,r\,R^4-144\,R^5\right)\right\}$$

$$\left\{X25,\ \text{HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES},\ X41,\ X(6)\text{-CEVA CONJUGATE OF }X(31),\ -\left(\left(R^2\,(r+2\,R)^2\left(l^8+24\,l^6\,r^2-34\,l^4\,r^4+8\,l^2\,r^6+r^8-12\,l^6\,r\,R-148\,l^4\,r^3\,R+76\,l^2\,r^5\,R+20\,r^7\,R-4\,l^6\,R^2-184\,l^4\,r^2\,R^2+252\,l^2\,r^4\,R^2+160\,r^6\,R^2+32\,l^4\,r\,R^3+416\,l^2\,r^3\,R^3+640\,r^5\,R^3+448\,l^2\,r^2\,R^4+1280\,r^4\,R^4+1024\,r^3\,R^5\right)\right)\Big/\left(\left(l^2-r^2-4\,r\,R-6\,R^2\right)^2\left(3\,l^2\,r-r^3+2\,l^2\,R-8\,r^2\,R-16\,r\,R^2\right)^2\right)\right)\right\}$$

$$\left\{X25,\ \text{HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES},\ X42,\ \text{CROSSPOINT OF INCENTER AND SYMMEDIAN POINT},\ -\left(\left(R^2\left(l^8+24\,l^6\,r^2-34\,l^4\,r^4+8\,l^2\,r^6+r^8-12\,l^6\,r\,R-148\,l^4\,r^3\,R+76\,l^2\,r^5\,R+20\,r^7\,R-4\,l^6\,R^2-184\,l^4\,r^2\,R^2+252\,l^2\,r^4\,R^2+160\,r^6\,R^2+32\,l^4\,r\,R^3+416\,l^2\,r^3\,R^3+640\,r^5\,R^3+448\,l^2\,r^2\,R^4+1280\,r^4\,R^4+1024\,r^3\,R^5\right)\right)\Big/\left(\left(l^2+r^2-2\,r\,R\right)^2\left(l^2-r^2-4\,r\,R-6\,R^2\right)^2\right)\right)\right\}$$

$$\left\{X25,\ \text{HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES},\ X43,\ X(6)\text{-CEVA CONJUGATE OF }X(1),\ \left(R\left(2\,l^8\,r-4\,l^4\,r^5+2\,r^9-l^8\,R-60\,l^6\,r^2\,R+86\,l^4\,r^4\,R-68\,l^2\,r^6\,R+43\,r^8\,R+4\,l^6\,r\,R^2+404\,l^4\,r^3\,R^2-548\,l^2\,r^5\,R^2+332\,r^7\,R^2+4\,l^6\,R^3+300\,l^4\,r^2\,R^3-1364\,l^2\,r^4\,R^3+1156\,r^6\,R^3-32\,l^4\,r\,R^4-1152\,l^2\,r^3\,R^4+1696\,r^5\,R^4-448\,l^2\,r^2\,R^5+320\,r^4\,R^5-1024\,r^3\,R^6\right)\right)\Big/\left(\left(l^2+r^2-8\,r\,R\right)^2\left(l^2-r^2-4\,r\,R-6\,R^2\right)^2\right)\right\}$$

$$\left\{X25,\ \text{HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES},\ X44,\ X(6)\text{-LINE CONJUGATE OF }X(1),\ \frac{1}{\left(l^2-3\,r^2-12\,r\,R\right)^2\left(l^2-r^2-4\,r\,R-6\,R^2\right)^2}R\left(4\,l^8\,r+4\,l^6\,r^3-20\,l^4\,r^5+12\,l^2\,r^7-l^8\,R-100\,l^6\,r^2\,R+98\,l^4\,r^4\,R+12\,l^2\,r^6\,R-9\,r^8\,R-8\,l^6\,r\,R^2+496\,l^4\,r^3\,R^2-216\,l^2\,r^5\,R^2-144\,r^7\,R^2+4\,l^6\,R^3+500\,l^4\,r^2\,R^3-756\,l^2\,r^4\,R^3-900\,r^6\,R^3-16\,l^4\,r\,R^4-1056\,l^2\,r^3\,R^4-2736\,r^5\,R^4-624\,l^2\,r^2\,R^5-4032\,r^4\,R^5-2304\,r^3\,R^6\right)\right\}$$

$$\left\{X25,\ \text{HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES},\ X45,\ X(9)\text{-BETH CONJUGATE OF }X(1),\ -\frac{1}{\left(l^2+3\,r^2+12\,r\,R\right)^2\left(l^2-r^2-4\,r\,R-6\,R^2\right)^2}R\left(8\,l^8\,r-40\,l^6\,r^3+56\,l^4\,r^5-24\,l^2\,r^7+l^8\,R-56\,l^6\,r^2\,R+214\,l^4\,r^4\,R-168\,l^2\,r^6\,R+9\,r^8\,R-64\,l^6\,r\,R^2+368\,l^4\,r^3\,R^2-576\,l^2\,r^5\,R^2+144\,r^7\,R^2-4\,l^6\,R^3+364\,l^4\,r^2\,R^3-1260\,l^2\,r^4\,R^3+900\,r^6\,R^3+112\,l^4\,r\,R^4-1632\,l^2\,r^3\,R^4+2736\,r^5\,R^4-912\,l^2\,r^2\,R^5+4032\,r^4\,R^5+2304\,r^3\,R^6\right)\right\}$$

$$\left\{X25,\ \text{HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES},\ X46,\ X(4)\text{-CEVA CONJUGATE OF }X(1),\ -\left(\left(R\left(2\,l^4\,r^3-4\,l^2\,r^5+2\,r^7+l^4\,r^2\,R-22\,l^2\,r^4\,R+21\,r^6\,R-36\,l^2\,r^3\,R^2+84\,r^5\,R^2+l^4\,R^3-2\,l^2\,r^2\,R^3+153\,r^4\,R^3-20\,l^2\,r\,R^4+116\,r^3\,R^4-4\,l^2\,R^5+44\,r^2\,R^5+64\,r\,R^6\right)\right)\Big/\left((r-R)^2\left(-l^2+r^2+4\,r\,R+6\,R^2\right)^2\right)\right)\right\}$$

$$\left\{X25,\ \text{HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES},\ X47,\ X(110)\text{-BETH CONJUGATE OF }X(34),\ -\left(\left(R^2\left(l^8+8\,l^6\,r^2-34\,l^4\,r^4+24\,l^2\,r^6+r^8-24\,l^6\,r\,R-40\,l^4\,r^3\,R+120\,l^2\,r^5\,R+8\,r^7\,R-8\,l^6\,R^2+52\,l^4\,r^2\,R^2+240\,l^2\,r^4\,R^2+4\,r^6\,R^2+168\,l^4\,r\,R^3+64\,l^2\,r^3\,R^3-104\,r^5\,R^3+20\,l^4\,R^4-328\,l^2\,r^2\,R^4-268\,r^4\,R^4-368\,l^2\,r\,R^5-80\,r^3\,R^5-16\,l^2\,R^6+304\,r^2\,R^6+256\,r\,R^7\right)\right)\Big/\left(\left(l^2-r^2-4\,r\,R-6\,R^2\right)^2\left(l^2-3\,r^2-6\,r\,R-2\,R^2\right)^2\right)\right)\right\}$$

$$\left\{X25,\ \text{HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES},\ X48,\ \text{CROSSPOINT OF }X(1)\text{ AND }X(63),\ -\frac{1}{\left(3\,l^2-r^2-6\,r\,R-8\,R^2\right)^2\left(l^2-r^2-4\,r\,R-6\,R^2\right)^2}R^2\left(l^8+24\,l^6\,r^2-34\,l^4\,r^4+8\,l^2\,r^6+r^8+4\,l^6\,r\,R-148\,l^4\,r^3\,R+60\,l^2\,r^5\,R+20\,r^7\,R+4\,l^6\,R^2-224\,l^4\,r^2\,R^2+148\,l^2\,r^4\,R^2+168\,r^6\,R^2-96\,l^4\,r\,R^3+96\,l^2\,r^3\,R^3+768\,r^5\,R^3-16\,l^4\,R^4-128\,l^2\,r^2\,R^4+2064\,r^4\,R^4-192\,l^2\,r\,R^5+3264\,r^3\,R^5-64\,l^2\,R^6+2816\,r^2\,R^6+1024\,r\,R^7\right)\right\}$$

$$\left\{X25,\ \text{HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES},\ X49,\ \text{CENTER OF SINE-TRIPLE-ANGLE CIRCLE},\ -\frac{1}{\left(2 l^2-2 r^2-8 r R-7 R^2\right)^2 \left(l^2-r^2-4 r R-6 R^2\right)^2} R^2 \left(l^8+16 l^6 r^2-34 l^4 r^4+16 l^2 r^6+r^8-16 l^6 r R-112 l^4 r^3 R+112 l^2 r^5 R+16 r^7 R-6 l^6 R^2-86 l^4 r^2 R^2+310 l^2 r^4 R^2+102 r^6 R^2+72 l^4 r R^3+400 l^2 r^3 R^3+328 r^5 R^3+8 l^4 R^4+176 l^2 r^2 R^4+552 r^4 R^4-64 l^2 r R^5+448 r^3 R^5+8 l^2 R^6+120 r^2 R^6-32 r R^7-36 R^8\right)\right\}$$

$$\left\{X25,\ \text{HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES},\ X50,\ X(74)\text{-CEVA CONJUGATE OF } X(184),\ -\left(\left(R^2 \left(l^{12}+6 l^{10} r^2-65 l^8 r^4+116 l^6 r^6-65 l^4 r^8+6 l^2 r^{10}+r^{12}-24 l^{10} r R-72 l^8 r^3 R+592 l^6 r^5 R-592 l^4 r^7 R+72 l^2 r^9 R+24 r^{11} R-10 l^{10} R^2+34 l^8 r^2 R^2+1276 l^6 r^4 R^2-2460 l^4 r^6 R^2+398 l^2 r^8 R^2+250 r^{10} R^2+200 l^8 r R^3+992 l^6 r^3 R^3-5840 l^4 r^5 R^3+1504 l^2 r^7 R^3+1480 r^9 R^3+33 l^8 R^4-64 l^6 r^2 R^4-7938 l^4 r^4 R^4+4416 l^2 r^6 R^4+5473 r^8 R^4-528 l^6 r R^5-5360 l^4 r^3 R^5+9200 l^2 r^5 R^5+13072 r^7 R^5-36 l^6 R^6-1044 l^4 r^2 R^6+11764 l^2 r^4 R^6+20100 r^6 R^6+432 l^4 r R^7+7968 l^2 r^3 R^7+19120 r^5 R^7+2160 l^2 r^2 R^8+10176 r^4 R^8+2304 r^3 R^9\right)\right) \Big/ \left(\left(l^2-r^2-4 r R-6 R^2\right)^2 \left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-3 l^2 R^2+19 r^2 R^2+12 r R^3\right)^2\right)\right)\right\}$$

$$\left\{X25,\ \text{HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES},\ X51,\ \text{CENTROID OF ORTHIC TRIANGLE},\ -\left(\left(l^8+16 l^6 r^2-34 l^4 r^4+16 l^2 r^6+r^8-16 l^6 r R-112 l^4 r^3 R+112 l^2 r^5 R+16 r^7 R-4 l^6 R^2-84 l^4 r^2 R^2+308 l^2 r^4 R^2+100 r^6 R^2+48 l^4 r R^3+416 l^2 r^3 R^3+304 r^5 R^3+240 l^2 r^2 R^4+448 r^4 R^4+256 r^3 R^5\right) \Big/ \left(36 R^2 \left(-l^2+r^2+4 r R+6 R^2\right)^2\right)\right)\right\}$$

$$\left\{X25,\ \text{HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES},\ X52,\ \text{ORTHOCENTER OF ORTHIC TRIANGLE},\ \frac{1}{4 R^2 \left(-l^2+r^2+4 r R+6 R^2\right)^2} \left(l^8-16 l^6 r^2+30 l^4 r^4-16 l^2 r^6+r^8-16 l^6 r R+144 l^4 r^3 R-144 l^2 r^5 R+16 r^7 R-16 l^6 R^2+272 l^4 r^2 R^2-560 l^2 r^4 R^2+112 r^6 R^2+192 l^4 r R^3-1152 l^2 r^3 R^3+448 r^5 R^3+84 l^4 R^4-1272 l^2 r^2 R^4+1108 r^4 R^4-672 l^2 r R^5+1696 r^3 R^5-176 l^2 R^6+1520 r^2 R^6+704 r R^7+144 R^8\right)\right\}$$

$$\left\{X25,\ \text{HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES},\ X53,\ \text{SYMMEDIAN POINT OF ORTHIC TRIANGLE},\ \left((1-r-2 R)^2 (1+r+2 R)^2 \left(4 l^8 r^2-28 l^6 r^4+28 l^4 r^6-4 l^2 r^8-48 l^6 r^3 R+160 l^4 r^5 R-48 l^2 r^7 R-l^8 R^2-32 l^6 r^2 R^2+306 l^4 r^4 R^2-224 l^2 r^6 R^2-r^8 R^2+16 l^6 r R^3+240 l^4 r^3 R^3-496 l^2 r^5 R^3-16 r^7 R^3+4 l^6 R^4+84 l^4 r^2 R^4-564 l^2 r^4 R^4-100 r^6 R^4-48 l^4 r R^5-416 l^2 r^3 R^5-304 r^5 R^5-240 l^2 r^2 R^6-448 r^4 R^6-256 r^3 R^7\right)\right) \Big/ \left(\left(l^2-r^2-4 r R-6 R^2\right)^2 \left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-4 l^2 R^2+20 r^2 R^2+16 r R^3\right)^2\right)\right\}$$

$$\left\{X25,\ \text{HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES},\ X54,\ \text{KosnitaPoint},\ -\frac{1}{\left(l^2-r^2-4 r R-6 R^2\right)^2 \left(2 l^2-2 r^2-8 r R-5 R^2\right)^2} R^2 \left(2 l^8+16 l^6 r^2-36 l^4 r^4+16 l^2 r^6+2 r^8-32 l^6 r R-96 l^4 r^3 R+96 l^2 r^5 R+32 r^7 R-10 l^6 R^2-10 l^4 r^2 R^2+202 l^2 r^4 R^2+202 r^6 R^2+120 l^4 r R^3+176 l^2 r^3 R^3+632 r^5 R^3-9 l^4 R^4+66 l^2 r^2 R^4+983 r^4 R^4+72 l^2 r R^5+568 r^3 R^5+104 l^2 R^6-248 r^2 R^6-416 r R^7-144 R^8\right)\right\}$$

$$\left\{X25,\ \text{HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES},\ X55,\ \text{INSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ -\frac{R^3 \left(4 l^4 r-4 l^2 r^3+l^4 R-18 l^2 r^2 R+r^4 R-36 l^2 r R^2+12 r^3 R^2-4 l^2 R^3+48 r^2 R^3+64 r R^4\right)}{(r+R)^2 \left(-l^2+r^2+4 r R+6 R^2\right)^2}\right\}$$

$$\left\{X25,\ \text{HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES},\ X56,\ \text{EXSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ -\frac{R^3 \left(-4 l^2 r^3+4 r^5+l^4 R+6 l^2 r^2 R+9 r^4 R-20 l^2 r R^2+12 r^3 R^2-4 l^2 R^3+32 r^2 R^3+64 r R^4\right)}{(r-R)^2 \left(-l^2+r^2+4 r R+6 R^2\right)^2}\right\}$$

$$\{X25,\ \text{HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES},\ X57,\ \text{ISOGONAL CONJUGATE OF } X(9),\ -\big(\big(R\,\big(2\,l^4\,r^3-4\,l^2\,r^5+2\,r^7+5\,l^4\,r^2\,R-30\,l^2\,r^4\,R+25\,r^6\,R+4\,l^4\,r\,R^2-76\,l^2\,r^3\,R^2+120\,r^5\,R^2+4\,l^4\,R^3-76\,l^2\,r^2\,R^3+288\,r^4\,R^3-96\,l^2\,r\,R^4+400\,r^3\,R^4-16\,l^2\,R^5+384\,r^2\,R^5+256\,r\,R^6\big)\big)\big/\big((r-2\,R)^2\,\big(-l^2+r^2+4\,r\,R+6\,R^2\big)^2\big)\big)\}$$

$$\{X25,\ \text{HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES},\ X58,\ \text{ISOGONAL CONJUGATE OF } X(10),\ -\big(\big(R^2\,\big(l^8+12\,l^6\,r^2-38\,l^4\,r^4+20\,l^2\,r^6+5\,r^8-16\,l^6\,r\,R-64\,l^4\,r^3\,R+80\,l^2\,r^5\,R+64\,r^7\,R-4\,l^6\,R^2-68\,l^4\,r^2\,R^2+212\,l^2\,r^4\,R^2+276\,r^6\,R^2+48\,l^4\,r\,R^3+288\,l^2\,r^3\,R^3+560\,r^5\,R^3+240\,l^2\,r^2\,R^4+560\,r^4\,R^4+256\,r^3\,R^5\big)\big)\big/\big(\big(l^2-3\,r^2-4\,r\,R\big)^2\,\big(l^2-r^2-4\,r\,R-6\,R^2\big)^2\big)\big)\}$$

$$\{X25,\ \text{HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES},\ X59,\ \text{ISOGONAL CONJUGATE OF } X(11),\ -\frac{1}{(2\,r-R)\,\big(-l^2+r^2+5\,r\,R+4\,R^2\big)^2\,\big(-l^2+r^2+4\,r\,R+6\,R^2\big)^2}\,R^2\,\big(l^8\,r+8\,l^6\,r^3-18\,l^4\,r^5+8\,l^2\,r^7+r^9-l^8\,R-30\,l^6\,r^2\,R-24\,l^4\,r^4\,R+38\,l^2\,r^6\,R+17\,r^8\,R+16\,l^6\,r\,R^2+90\,l^4\,r^3\,R^2+4\,l^2\,r^5\,R^2+114\,r^7\,R^2+12\,l^6\,R^3+93\,l^4\,r^2\,R^3-206\,l^2\,r^4\,R^3+373\,r^6\,R^3-240\,l^4\,r\,R^4-192\,l^2\,r^3\,R^4+560\,r^5\,R^4-48\,l^4\,R^5+496\,l^2\,r^2\,R^5+80\,r^4\,R^5+896\,l^2\,r\,R^6-960\,r^3\,R^6+64\,l^2\,R^7-1536\,r^2\,R^7-1024\,r\,R^8\big)\}$$

$$\{X25,\ \text{HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES},\ X60,\ \text{ISOGONAL CONJUGATE OF } X(12),\ -\frac{1}{\big(l^2-r^2-4\,r\,R-6\,R^2\big)^2\,\big(2\,l^2\,r-2\,r^3+l^2\,R-7\,r^2\,R-7\,r\,R^2\big)^2}\,R^2\,\big(2\,l^8\,r^2+16\,l^6\,r^4-36\,l^4\,r^6+16\,l^2\,r^8+2\,r^{10}+3\,l^8\,r\,R+4\,l^6\,r^3\,R-162\,l^4\,r^5\,R+124\,l^2\,r^7\,R+31\,r^9\,R+l^8\,R^2-34\,l^6\,r^2\,R^2-292\,l^4\,r^4\,R^2+450\,l^2\,r^6\,R^2+195\,r^8\,R^2-28\,l^6\,r\,R^3-172\,l^4\,r^3\,R^3+948\,l^2\,r^5\,R^3+660\,r^7\,R^3-4\,l^6\,R^4+35\,l^4\,r^2\,R^4+1206\,l^2\,r^4\,R^4+1307\,r^6\,R^4+48\,l^4\,r\,R^5+832\,l^2\,r^3\,R^5+1520\,r^5\,R^5+240\,l^2\,r^2\,R^6+960\,r^4\,R^6+256\,r^3\,R^7\big)\}$$

$$\{X25,\ \text{HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES},\ X61,\ \text{ISOGONAL CONJUGATE OF } X(17),\ -\frac{1}{\big(3\,l^2+2\,\sqrt{3}\,l\,r-3\,r^2-12\,r\,R\big)^2\,\big(l^2-r^2-4\,r\,R-6\,R^2\big)^2}\,3\,R^2\,\big(3\,l^8+4\,\sqrt{3}\,l^7\,r+48\,l^6\,r^2+4\,\sqrt{3}\,l^5\,r^3-102\,l^4\,r^4-4\,\sqrt{3}\,l^3\,r^5+48\,l^2\,r^6-4\,\sqrt{3}\,l\,r^7+3\,r^8-48\,l^6\,r\,R-48\,\sqrt{3}\,l^5\,r^2\,R-336\,l^4\,r^3\,R+32\,\sqrt{3}\,l^3\,r^4\,R+336\,l^2\,r^5\,R-48\,\sqrt{3}\,l\,r^6\,R+48\,r^7\,R-12\,l^6\,R^2-16\,\sqrt{3}\,l^5\,r\,R^2-220\,l^4\,r^2\,R^2+128\,\sqrt{3}\,l^3\,r^3\,R^2+892\,l^2\,r^4\,R^2-208\,\sqrt{3}\,l\,r^5\,R^2+300\,r^6\,R^2+144\,l^4\,r\,R^3+128\,\sqrt{3}\,l^3\,r^2\,R^3+1120\,l^2\,r^3\,R^3-384\,\sqrt{3}\,l\,r^4\,R^3+912\,r^5\,R^3+576\,l^2\,r^2\,R^4-256\,\sqrt{3}\,l\,r^3\,R^4+1344\,r^4\,R^4+768\,r^3\,R^5\big)\}$$

$$\{X25,\ \text{HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES},\ X62,\ \text{ISOGONAL CONJUGATE OF } X(18),\ -\frac{1}{\big(3\,l^2-2\,\sqrt{3}\,l\,r-3\,r^2-12\,r\,R\big)^2\,\big(l^2-r^2-4\,r\,R-6\,R^2\big)^2}\,3\,R^2\,\big(3\,l^8-4\,\sqrt{3}\,l^7\,r+48\,l^6\,r^2-4\,\sqrt{3}\,l^5\,r^3-102\,l^4\,r^4+4\,\sqrt{3}\,l^3\,r^5+48\,l^2\,r^6+4\,\sqrt{3}\,l\,r^7+3\,r^8-48\,l^6\,r\,R+48\,\sqrt{3}\,l^5\,r^2\,R-336\,l^4\,r^3\,R-32\,\sqrt{3}\,l^3\,r^4\,R+336\,l^2\,r^5\,R+48\,\sqrt{3}\,l\,r^6\,R+48\,r^7\,R-12\,l^6\,R^2+16\,\sqrt{3}\,l^5\,r\,R^2-220\,l^4\,r^2\,R^2-128\,\sqrt{3}\,l^3\,r^3\,R^2+892\,l^2\,r^4\,R^2+208\,\sqrt{3}\,l\,r^5\,R^2+300\,r^6\,R^2+144\,l^4\,r\,R^3-128\,\sqrt{3}\,l^3\,r^2\,R^3+1120\,l^2\,r^3\,R^3+384\,\sqrt{3}\,l\,r^4\,R^3+912\,r^5\,R^3+576\,l^2\,r^2\,R^4+256\,\sqrt{3}\,l\,r^3\,R^4+1344\,r^4\,R^4+768\,r^3\,R^5\big)\}$$

$$\{X25,\ \text{HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES},\ X63,\ \text{ISOGONAL CONJUGATE OF } X(19),\ -\big(\big(R\,\big(-l^6\,r+3\,l^4\,r^3-3\,l^2\,r^5+r^7+11\,l^4\,r^2\,R-26\,l^2\,r^4\,R+15\,r^6\,R+20\,l^4\,r\,R^2-96\,l^2\,r^3\,R^2+92\,r^5\,R^2+3\,l^4\,R^3-166\,l^2\,r^2\,R^3+299\,r^4\,R^3-136\,l^2\,r\,R^4+552\,r^3\,R^4-16\,l^2\,R^5+560\,r^2\,R^5+256\,r\,R^6\big)\big)\big/\big((r+R)^2\,\big(-l^2+r^2+4\,r\,R+6\,R^2\big)^2\big)\big)\}$$

$$\Big\{X25,\ \text{HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES},\ X64,$$
$$\text{ISOGONAL CONJUGATE OF } X(20),\ \frac{1}{(l-r-2R)^2\,(l+r+2R)^2\,\left(l^2-r^2-4rR-6R^2\right)^2}$$
$$R^2\left(7l^8-16l^6r^2+18l^4r^4-16l^2r^6+7r^8-112l^6rR+240l^4r^3R-240l^2r^5R+112r^7R-188l^6R^2+1108l^4r^2R^2-1588l^2r^4R^2+860r^6R^2+2256l^4rR^3-5792l^2r^3R^3+4048r^5R^3+1728l^4R^4-12144l^2r^2R^4+12544r^4R^4-13824l^2rR^5+25856r^3R^5-6656l^2R^6+34304r^2R^6+26624rR^7+9216R^8\right)\Big\}$$

$$\Big\{X25,\ \text{HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES},$$
$$X65,\ \text{ORTHOCENTER OF THE INTOUCH TRIANGLE},$$
$$-\frac{1}{R\left(-l^2+r^2+4rR+6R^2\right)^2}\left(2l^4r^3-4l^2r^5+2r^7+3l^4r^2R-22l^2r^4R+19r^6R+2l^4rR^2-48l^2r^3R^2+78r^5R^2+l^4R^3-46l^2r^2R^3+173r^4R^3-28l^2rR^4+220r^3R^4-4l^2R^5+160r^2R^5+64rR^6\right)\Big\}$$

$$\Big\{X25,\ \text{HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES},\ X66,\ \text{ISOGONAL CONJUGATE OF } X(22),$$
$$-\Big(\Big(l^{14}-11l^{12}r^2+41l^{10}r^4-75l^8r^6+75l^6r^8-41l^4r^{10}+11l^2r^{12}-r^{14}-28l^{12}rR+248l^{10}r^3R-740l^8r^5R+1040l^6r^7R-740l^4r^9R+248l^2r^{11}R-28r^{13}R-14l^{12}R^2+488l^{10}r^2R^2-2802l^8r^4R^2+5968l^6r^6R^2-5762l^4r^8R^2+2472l^2r^{10}R^2-350r^{12}R^2+336l^{10}rR^3-5008l^8r^3R^3+18144l^6r^5R^3-25184l^4r^7R^3+14288l^2r^9R^3-2576r^{11}R^3+64l^{10}R^4-4128l^8r^2R^4+30912l^6r^4R^4-67200l^4r^6R^4+52736l^2r^8R^4-12384r^{10}R^4-1280l^8rR^5+28416l^6r^3R^5-111104l^4r^5R^5+128768l^2r^7R^5-40704r^9R^5-92l^8R^6+12080l^6r^2R^6-109480l^4r^4R^6+207664l^2r^6R^6-92764r^8R^6+1472l^6rR^7-57152l^4r^3R^7+212800l^2r^5R^7-144832r^7R^7-16l^6R^8-11280l^4r^2R^8+125584l^2r^4R^8-148080r^6R^8+192l^4rR^9+33152l^2r^3R^9-88896r^5R^9+960l^2r^2R^{10}-22784r^4R^{10}+1024r^3R^{11}\Big)\Big/\Big((l-r-2R)^2\,(l+r+2R)^2\,\left(l^2-r^2-4rR\right)^2\left(l^2-r^2-4rR-6R^2\right)^2\Big)\Big)\Big\}$$

$$\Big\{X25,\ \text{HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES},\ X67,\ \text{ISOGONAL CONJUGATE OF } X(23),$$
$$-\Big(\Big(l^{12}-18l^{10}r^2+63l^8r^4-92l^6r^6+63l^4r^8-18l^2r^{10}+r^{12}-24l^{10}rR+312l^8r^3R-816l^6r^5R+816l^4r^7R-312l^2r^9R+24r^{11}R-8l^{10}R^2+472l^8r^2R^2-2768l^6r^4R^2+4400l^4r^6R^2-2344l^2r^8R^2+248r^{10}R^2+160l^8rR^3-4224l^6r^3R^3+12480l^4r^5R^3-9856l^2r^7R^3+1440r^9R^3+7l^8R^4-2496l^6r^2R^4+19314l^4r^4R^4-25024l^2r^6R^4+5127r^8R^4-112l^6rR^5+14960l^4r^3R^5-38512l^2r^5R^5+11376r^7R^5+36l^6R^6+4020l^4r^2R^6-33940l^2r^4R^6+14972r^6R^6-432l^4rR^7-14752l^2r^3R^7+9552r^5R^7-2160l^2r^2R^8+64r^4R^8-2304r^3R^9\Big)\Big/\Big(\left(l^2-r^2-4rR\right)^2\left(2l^2-2r^2-8rR-9R^2\right)\left(l^2-r^2-4rR-6R^2\right)^2\Big)\Big)\Big\}$$

$$\Big\{X25,\ \text{HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES},$$
$$X68,\ \text{PRASOLOV POINT},\ -\frac{1}{(l-r-2R)^2\,(l+r+2R)^2\,\left(l^2-r^2-4rR-6R^2\right)^2}$$
$$\left(l^{10}-9l^8r^2+22l^6r^4-22l^4r^6+9l^2r^8-r^{10}-20l^8rR+128l^6r^3R-216l^4r^5R+128l^2r^7R-20r^9R-16l^8R^2+284l^6r^2R^2-888l^4r^4R^2+796l^2r^6R^2-176r^8R^2+256l^6rR^3-1888l^4r^3R^3+2784l^2r^5R^3-896r^7R^3+96l^6R^4-2128l^4r^2R^4+5904l^2r^4R^4-2912r^6R^4-1152l^4rR^5+7616l^2r^3R^5-6272r^5R^5-264l^4R^6+5664l^2r^2R^6-8968r^4R^6+2112l^2rR^7-8256r^3R^7+320l^2R^8-4544r^2R^8-1280rR^9-144R^{10}\right)\Big\}$$

$$\Big\{X25,\ \text{HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES},$$
$$X69,\ \text{SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},$$
$$\frac{1}{\left(l^2-r^2-4rR\right)^2\left(l^2-r^2-4rR-6R^2\right)^2}\left(8l^8r^2-24l^6r^4+24l^4r^6-8l^2r^8-96l^6r^3R+192l^4r^5R-96l^2r^7R-3l^8R^2-116l^6r^2R^2+622l^4r^4R^2-500l^2r^6R^2-3r^8R^2+48l^6rR^3+880l^4r^3R^3-1392l^2r^5R^3-48r^7R^3+16l^6R^4+432l^4r^2R^4+2192l^2r^4R^4-304r^6R^4-192l^4rR^5-1920l^2r^3R^5-960r^5R^5-960l^2r^2R^6-1536r^4R^6-1024r^3R^7\right)\Big\}$$

$$\{X25,\ \text{HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES},\ X70,\ \text{ISOGONAL CONJUGATE OF } X(26),$$
$$-\Big(\big(l^{14}-11 l^{12} r^2+41 l^{10} r^4-75 l^8 r^6+75 l^6 r^8-41 l^4 r^{10}+11 l^2 r^{12}-r^{14}-28 l^{12} r R+248 l^{10} r^3 R-$$
$$740 l^8 r^5 R+1040 l^6 r^7 R-740 l^4 r^9 R+248 l^2 r^{11} R-28 r^{13} R-19 l^{12} R^2+530 l^{10} r^2 R^2-$$
$$2925 l^8 r^4 R^2+6140 l^6 r^6 R^2-5885 l^4 r^8 R^2+2514 l^2 r^{10} R^2-355 r^{12} R^2+456 l^{10} r R^3-$$
$$5800 l^8 r^3 R^3+19920 l^6 r^5 R^3-26960 l^4 r^7 R^3+15080 l^2 r^9 R^3-2696 r^{11} R^3+143 l^{10} R^4-$$
$$5911 l^8 r^2 R^4+38218 l^6 r^4 R^4-78058 l^4 r^6 R^4+59271 l^2 r^8 R^4-13663 r^{10} R^4-2860 l^8 r R^5+$$
$$43392 l^6 r^3 R^5-147368 l^4 r^5 R^5+159616 l^2 r^7 R^5-48684 r^9 R^5-546 l^8 R^6+27600 l^6 r^2 R^6-$$
$$180476 l^4 r^4 R^6+298960 l^2 r^6 R^6-125058 r^8 R^6+8736 l^6 r R^7-138016 l^4 r^3 R^7+$$
$$386976 l^2 r^5 R^7-233376 r^7 R^7+1130 l^6 R^8-60918 l^4 r^2 R^8+336950 l^2 r^4 R^8-314410 r^6 R^8-$$
$$13560 l^4 r R^9+187344 l^2 r^3 R^9-299768 r^5 R^9-1257 l^4 R^{10}+60930 l^2 r^2 R^{10}-195273 r^4 R^{10}+$$
$$10056 l^2 r R^{11}-82376 r^3 R^{11}+680 l^2 R^{12}-20792 r^2 R^{12}-2720 r R^{13}-144 R^{14}\big)\Big/$$
$$\big(\big(l^2-r^2-4 r R-6 R^2\big)^2\big(l^4-2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-6 l^2 R^2+22 r^2 R^2+24 r R^3+7 R^4\big)^2\big)\Big)\}$$

$$\{X25,\ \text{HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES},\ X71,$$
$$\text{ISOGONAL CONJUGATE OF } X(27),\ \frac{1}{\big(l^2-r^2-4 r R-6 R^2\big)^2\big(l^2+r^2+6 r R+8 R^2\big)^2}$$
$$R^2\big(7 l^8-16 l^6 r^2+26 l^4 r^4-16 l^2 r^6-r^8-84 l^6 r R+212 l^4 r^3 R-172 l^2 r^5 R-20 r^7 R-132 l^6 R^2+$$
$$640 l^4 r^2 R^2-756 l^2 r^4 R^2-168 r^6 R^2+864 l^4 r R^3-1696 l^2 r^3 R^3-768 r^5 R^3+464 l^4 R^4-$$
$$1920 l^2 r^2 R^4-2064 r^4 R^4-832 l^2 r R^5-3264 r^3 R^5+64 l^2 R^6-2816 r^2 R^6-1024 r R^7\big)\}$$

$$\{X25,\ \text{HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES},$$
$$X72,\ \text{ISOGONAL CONJUGATE OF } X(28),\ -\frac{1}{R\big(-l^2+r^2+4 r R+6 R^2\big)^2}$$
$$\big(-l^6 r+3 l^4 r^3-3 l^2 r^5+r^7+13 l^4 r^2 R-26 l^2 r^4 R+13 r^6 R+16 l^4 r R^2-92 l^2 r^3 R^2+76 r^5 R^2+$$
$$3 l^4 R^3-158 l^2 r^2 R^3+251 r^4 R^3-116 l^2 r R^4+492 r^3 R^4-16 l^2 R^5+540 r^2 R^5+256 r R^6\big)\}$$

$$\{X25,\ \text{HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES},$$
$$X73,\ \text{CROSSPOINT OF INCENTER AND CIRCUMCENTER},$$
$$-\Big(\big(R^2\big(l^8+16 l^6 r^2-26 l^4 r^4+16 l^2 r^6-7 r^8-20 l^6 r R-140 l^4 r^3 R+180 l^2 r^5 R-84 r^7 R-$$
$$12 l^6 R^2-96 l^4 r^2 R^2+676 l^2 r^4 R^2-472 r^6 R^2+224 l^4 r R^3+960 l^2 r^3 R^3-1440 r^5 R^3+$$
$$48 l^4 R^4-2352 r^4 R^4-832 l^2 r R^5-1600 r^3 R^5-64 l^2 R^6+512 r^2 R^6+1024 r R^7\big)\big)\Big/$$
$$\big(\big(l^2-r^2-4 r R-6 R^2\big)^2\big(l^2+r^2-2 r R-4 R^2\big)^2\big)\Big)\}$$

$$\{X25,\ \text{HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES},$$
$$X74,\ \text{ISOGONAL CONJUGATE OF EULER INFINITY POINT},$$
$$\big(R^2\big(4 l^6-4 l^4 r^2+4 l^2 r^4-4 r^6-48 l^4 r R+64 l^2 r^3 R-48 r^5 R-97 l^4 R^2+338 l^2 r^2 R^2-$$
$$289 r^4 R^2+776 l^2 r R^3-1032 r^3 R^3+648 l^2 R^4-2200 r^2 R^4-2592 r R^5-1296 R^6\big)\big)\Big/$$
$$\big(\big(2 l^2-2 r^2-8 r R-9 R^2\big)\big(l^2-r^2-4 r R-6 R^2\big)^2\big)\}$$

$$\{X25,\ \text{HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES},\ X75,$$
$$\text{ISOTOMIC CONJUGATE OF INCENTER},\ -\frac{1}{\big(l^2+r^2+4 r R\big)^2\big(l^2-r^2-4 r R-6 R^2\big)^2}$$
$$R\big(8 l^8 r-40 l^6 r^3+56 l^4 r^5-24 l^2 r^7+3 l^8 R-112 l^6 r^2 R+346 l^4 r^4 R-240 l^2 r^6 R+3 r^8 R-$$
$$112 l^6 r R^2+848 l^4 r^3 R^2-1040 l^2 r^5 R^2+48 r^7 R^2-16 l^6 R^3+848 l^4 r^2 R^3-2352 l^2 r^4 R^3+$$
$$304 r^6 R^3+320 l^4 r R^4-2688 l^2 r^3 R^4+960 r^5 R^4-1088 l^2 r^2 R^5+1536 r^4 R^5+1024 r^3 R^6\big)\}$$

$$\{X25,\ \text{HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES},\ X76,\ \text{3rd BROCARD POINT},$$
$$-\Big(\big(R^2\big(3 l^{12}+38 l^{10} r^2-259 l^8 r^4+436 l^6 r^6-259 l^4 r^8+38 l^2 r^{10}+3 r^{12}-72 l^{10} r R-536 l^8 r^3 R+$$
$$2608 l^6 r^5 R-2608 l^4 r^7 R+536 l^2 r^9 R+72 r^{11} R-16 l^{10} R^2+192 l^8 r^2 R^2+5056 l^6 r^4 R^2-$$
$$10272 l^4 r^6 R^2+3024 l^2 r^8 R^2+736 r^{10} R^2+320 l^8 r R^3+2176 l^6 r^3 R^3-19072 l^4 r^5 R^3+$$
$$8832 l^2 r^7 R^3+4160 r^9 R^3-832 l^6 r^2 R^4-15744 l^4 r^4 R^4+14528 l^2 r^6 R^4+14080 r^8 R^4-$$
$$3584 l^4 r^3 R^5+13824 l^2 r^5 R^5+28672 r^7 R^5+7168 l^2 r^4 R^6+32768 r^6 R^6+16384 r^5 R^7\big)\big)\Big/$$
$$\big(\big(l^2-r^2-4 r R-6 R^2\big)^2\big(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\big)^2\big)\Big)\}$$

$$\Big\{X25,\ \text{HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES},$$
$$X77,\ \text{ISOGONAL CONJUGATE OF } X(33),\ -\frac{1}{\left(l^2-r^2-4\,r\,R-6\,R^2\right)^2\left(l^2-r\,R-4\,R^2\right)^2}$$
$$R\left(l^8\,r-3\,l^6\,r^3+3\,l^4\,r^5-l^2\,r^7+l^8\,R-8\,l^6\,r^2\,R+17\,l^4\,r^4\,R-10\,l^2\,r^6\,R-32\,l^6\,r\,R^2+64\,l^4\,r^3\,R^2-48\,l^2\,r^5\,R^2-12\,l^6\,R^3+163\,l^4\,r^2\,R^3-162\,l^2\,r^4\,R^3+3\,r^6\,R^3+272\,l^4\,r\,R^4-464\,l^2\,r^3\,R^4+48\,r^5\,R^4+48\,l^4\,R^5-912\,l^2\,r^2\,R^5+304\,r^4\,R^5-896\,l^2\,r\,R^6+960\,r^3\,R^6-64\,l^2\,R^7+1536\,r^2\,R^7+1024\,r\,R^8\right)\Big\}$$

$$\Big\{X25,\ \text{HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES},\ X78,$$
$$\text{ISOGONAL CONJUGATE OF } X(34),\ -\Big(\Big(R\left(-l^6\,r+3\,l^4\,r^3-3\,l^2\,r^5+r^7+15\,l^4\,r^2\,R-26\,l^2\,r^4\,R+11\,r^6\,R+12\,l^4\,r\,R^2-88\,l^2\,r^3\,R^2+60\,r^5\,R^2+3\,l^4\,R^3-134\,l^2\,r^2\,R^3+187\,r^4\,R^3-96\,l^2\,r\,R^4+368\,r^3\,R^4-16\,l^2\,R^5+448\,r^2\,R^5+256\,r\,R^6\right)\Big)\Big/\Big((r-R)^2\left(-l^2+r^2+4\,r\,R+6\,R^2\right)^2\Big)\Big)\Big\}$$

$$\Big\{X25,\ \text{HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES},\ X79,\ \text{ISOGONAL CONJUGATE OF } X(35),$$
$$\left(-12\,l^6\,r^2+28\,l^4\,r^4-20\,l^2\,r^6+4\,r^8-6\,l^6\,r\,R+134\,l^4\,r^3\,R-186\,l^2\,r^5\,R+58\,r^7\,R+204\,l^4\,r^2\,R^2-680\,l^2\,r^4\,R^2+348\,r^6\,R^2+30\,l^4\,r\,R^3-1132\,l^2\,r^3\,R^3+1102\,r^5\,R^3-9\,l^4\,R^4-674\,l^2\,r^2\,R^4+1899\,r^4\,R^4+156\,l^2\,r\,R^5+1508\,r^3\,R^5+36\,l^2\,R^6-12\,r^2\,R^6-576\,r\,R^7\right)\Big/\Big((2\,r+3\,R)^2\left(-l^2+r^2+4\,r\,R+6\,R^2\right)^2\Big)\Big\}$$

$$\Big\{X25,\ \text{HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES},$$
$$X80,\ \text{REFLECTION OF INCENTER IN FEUERBACH POINT},$$
$$\left(-2\,l^6\,r+10\,l^4\,r^3-14\,l^2\,r^5+6\,r^7+28\,l^4\,r^2\,R-88\,l^2\,r^4\,R+60\,r^6\,R+20\,l^4\,r\,R^2-208\,l^2\,r^3\,R^2+252\,r^5\,R^2+l^4\,R^3-198\,l^2\,r^2\,R^3+549\,r^4\,R^3-68\,l^2\,r\,R^4+628\,r^3\,R^4-4\,l^2\,R^5+332\,r^2\,R^5+64\,r\,R^6\right)\Big/\Big((2\,r-R)\left(-l^2+r^2+4\,r\,R+6\,R^2\right)^2\Big)\Big\}$$

$$\Big\{X25,\ \text{HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES},$$
$$X81,\ \text{CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},$$
$$-\Big(\Big(R\left(l^8\,r-2\,l^4\,r^5+r^9+l^8\,R+2\,l^6\,r^2\,R-24\,l^4\,r^4\,R+6\,l^2\,r^6\,R+15\,r^8\,R-20\,l^6\,r\,R^2-52\,l^4\,r^3\,R^2+44\,l^2\,r^5\,R^2+92\,r^7\,R^2-4\,l^6\,R^3-45\,l^4\,r^2\,R^3+166\,l^2\,r^4\,R^3+299\,r^6\,R^3+48\,l^4\,r\,R^4+296\,l^2\,r^3\,R^4+552\,r^5\,R^4+240\,l^2\,r^2\,R^5+560\,r^4\,R^5+256\,r^3\,R^6\right)\Big)\Big/\Big(\left(l^2-r^2-r\,R\right)^2\left(l^2-r^2-4\,r\,R-6\,R^2\right)^2\Big)\Big)\Big\}$$

$$\Big\{X25,\ \text{HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES},\ X82,\ \text{ISOGONAL CONJUGATE OF } X(38),$$
$$-\Big(\Big(R\left(l^{12}\,r-3\,l^8\,r^5+3\,l^4\,r^9-r^{13}+l^{12}\,R-20\,l^{10}\,r^2\,R-23\,l^8\,r^4\,R+104\,l^6\,r^6\,R-85\,l^4\,r^8\,R+44\,l^2\,r^{10}\,R-21\,r^{12}\,R-36\,l^{10}\,r\,R^2+160\,l^8\,r^3\,R^2+304\,l^6\,r^5\,R^2-744\,l^4\,r^7\,R^2+500\,l^2\,r^9\,R^2-184\,r^{11}\,R^2-4\,l^{10}\,R^3+403\,l^8\,r^2\,R^3-464\,l^6\,r^4\,R^3-1774\,l^4\,r^6\,R^3+2196\,l^2\,r^8\,R^3-869\,r^{10}\,R^3+112\,l^8\,r\,R^4-1920\,l^6\,r^3\,R^4-288\,l^4\,r^5\,R^4+4480\,l^2\,r^7\,R^4-2384\,r^9\,R^4-944\,l^6\,r^2\,R^5+3664\,l^4\,r^4\,R^5+3440\,l^2\,r^6\,R^5-3792\,r^8\,R^5+3008\,l^4\,r^3\,R^6-1536\,l^2\,r^5\,R^6-3136\,r^7\,R^6-3136\,l^2\,r^4\,R^7-512\,r^6\,R^7+1024\,r^5\,R^8\right)\Big)\Big/$$
$$\Big(\left(l^2-r^2-4\,r\,R-6\,R^2\right)^2\left(l^4-4\,l^2\,r^2+3\,r^4-9\,l^2\,r\,R+19\,r^3\,R+28\,r^2\,R^2\right)^2\Big)\Big)\Big\}$$

$$\Big\{X25,\ \text{HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES},$$
$$X83,\ \text{CEVAPOINT OF CENTROID AND SYMMEDIAN POINT},$$
$$-\Big(\Big(4\,l^{14}+4\,l^{12}\,r^2-12\,l^{10}\,r^4-12\,l^8\,r^6+12\,l^6\,r^8+12\,l^4\,r^{10}-4\,l^2\,r^{12}-4\,r^{14}-112\,l^{12}\,r\,R+32\,l^{10}\,r^3\,R+112\,l^8\,r^5\,R-64\,l^6\,r^7\,R+112\,l^4\,r^9\,R+32\,l^2\,r^{11}\,R-112\,r^{13}\,R-13\,l^{12}\,R^2+1254\,l^{10}\,r^2\,R^2-1843\,l^8\,r^4\,R^2+1844\,l^6\,r^6\,R^2-1395\,l^4\,r^8\,R^2+1510\,l^2\,r^{10}\,R^2-1357\,r^{12}\,R^2+312\,l^{10}\,r\,R^3-7832\,l^8\,r^3\,R^3+16\,176\,l^6\,r^5\,R^3-17\,712\,l^4\,r^7\,R^3+14\,232\,l^2\,r^9\,R^3-9272\,r^{11}\,R^3-16\,l^{10}\,R^4-3392\,l^8\,r^2\,R^4+35\,520\,l^6\,r^4\,R^4-67\,872\,l^4\,r^6\,R^4+63\,184\,l^2\,r^8\,R^4-38\,944\,r^{10}\,R^4+320\,l^8\,r\,R^5+19\,584\,l^6\,r^3\,R^5-109\,184\,l^4\,r^5\,R^5+149\,120\,l^2\,r^7\,R^5-102\,336\,r^9\,R^5-832\,l^6\,r^2\,R^6-64\,896\,l^4\,r^4\,R^6+182\,464\,l^2\,r^6\,R^6-162\,048\,r^8\,R^6-3584\,l^4\,r^3\,R^7+95\,744\,l^2\,r^5\,R^7-135\,168\,r^7\,R^7+7168\,l^2\,r^4\,R^8-32\,768\,r^6\,R^8+16\,384\,r^5\,R^9\right)\Big)\Big/$$
$$\Big(\left(l^2-r^2-4\,r\,R-6\,R^2\right)^2\left(5\,l^4-6\,l^2\,r^2+5\,r^4-40\,l^2\,r\,R+40\,r^3\,R+80\,r^2\,R^2\right)^2\Big)\Big)\Big\}$$

$$\Big\{X25,\ \text{HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES},\ X84,$$
$$\text{ISOGONAL CONJUGATE OF } X(40),\ -\Big(\Big(R\left(-2\,l^6\,r+4\,l^4\,r^3-2\,l^2\,r^5+4\,l^6\,R+5\,l^4\,r^2\,R-10\,l^2\,r^4\,R+r^6\,R-4\,l^4\,r\,R^2-20\,l^2\,r^3\,R^2+8\,r^5\,R^2-64\,l^4\,R^3+52\,l^2\,r^2\,R^3+4\,r^4\,R^3+224\,l^2\,r\,R^4-112\,r^3\,R^4+336\,l^2\,R^5-448\,r^2\,R^5-768\,r\,R^6-576\,R^7\right)\Big)\Big/\Big(r^2\left(-l^2+r^2+4\,r\,R+6\,R^2\right)^2\Big)\Big)\Big\}$$

$$\left\{X25,\ \text{HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES},\ X85,\ \text{ISOTOMIC CONJUGATE OF } X(9),\ -\frac{1}{\left(l^2-r^2-4\,r\,R-6\,R^2\right)^2\left(l^2+r^2+8\,r\,R+16\,R^2\right)^2}\right.$$
$$R\left(24\,l^8\,r-56\,l^6\,r^3+40\,l^4\,r^5-8\,l^2\,r^7+19\,l^8\,R-288\,l^6\,r^2\,R+394\,l^4\,r^4\,R-128\,l^2\,r^6\,R+3\,r^8\,R-504\,l^6\,r\,R^2+1592\,l^4\,r^3\,R^2-904\,l^2\,r^5\,R^2+72\,r^7\,R^2-144\,l^6\,R^3+3200\,l^4\,r^2\,R^3-3728\,l^2\,r^4\,R^3+736\,r^6\,R^3+3008\,l^4\,r\,R^4-9600\,l^2\,r^3\,R^4+4160\,r^5\,R^4+512\,l^4\,R^5-14\,656\,l^2\,r^2\,R^5+14\,080\,r^4\,R^5-10\,752\,l^2\,r\,R^6+28\,672\,r^3\,R^6-1024\,l^2\,R^7+32\,768\,r^2\,R^7+16\,384\,r\,R^8\right)\Big\}$$

$$\left\{X25,\ \text{HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES},\ X86,\ \text{CEVAPOINT OF INCENTER AND CENTROID},\ -\frac{1}{\left(5\,l^2+r^2+4\,r\,R\right)^2\left(l^2-r^2-4\,r\,R-6\,R^2\right)^2}\right.$$
$$\left(4\,l^{10}-8\,l^6\,r^4+4\,l^2\,r^8-32\,l^8\,r\,R-32\,l^6\,r^3\,R+32\,l^4\,r^5\,R+32\,l^2\,r^7\,R-13\,l^8\,R^2+32\,l^6\,r^2\,R^2+138\,l^4\,r^4\,R^2+96\,l^2\,r^6\,R^2+3\,r^8\,R^2+208\,l^4\,r^3\,R^3+128\,l^2\,r^5\,R^3+48\,r^7\,R^3-16\,l^6\,R^4-48\,l^4\,r^2\,R^4+208\,l^2\,r^4\,R^4+304\,r^6\,R^4+192\,l^4\,r\,R^5+640\,l^2\,r^3\,R^5+960\,r^5\,R^5+960\,l^2\,r^2\,R^6+1536\,r^4\,R^6+1024\,r^3\,R^7\right)\Big\}$$

$$\left\{X25,\ \text{HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES},\ X87,\ X(2)\text{-CROSS CONJUGATE OF } X(1),\right.$$
$$\left(R\left(2\,l^{12}\,r+4\,l^{10}\,r^3-2\,l^8\,r^5-8\,l^6\,r^7-2\,l^4\,r^9+4\,l^2\,r^{11}+2\,r^{13}-l^{12}\,R-78\,l^{10}\,r^2\,R-51\,l^8\,r^4\,R+76\,l^6\,r^6\,R+25\,l^4\,r^8\,R+2\,l^2\,r^{10}\,R+27\,r^{12}\,R+28\,l^{10}\,r\,R^2+1012\,l^8\,r^3\,R^2+24\,l^6\,r^5\,R^2-728\,l^4\,r^7\,R^2+332\,l^2\,r^9\,R^2+100\,r^{11}\,R^2+4\,l^{10}\,R^3-124\,l^8\,r^2\,R^3-5368\,l^6\,r^4\,R^3+1128\,l^4\,r^6\,R^3+1972\,l^2\,r^8\,R^3-300\,r^{10}\,R^3-128\,l^8\,r\,R^4-1920\,l^6\,r^3\,R^4+9984\,l^4\,r^5\,R^4+3712\,l^2\,r^7\,R^4-3968\,r^9\,R^4+1152\,l^6\,r^2\,R^5+15\,744\,l^4\,r^4\,R^5-1152\,l^2\,r^6\,R^5-15\,744\,r^8\,R^5-1024\,l^4\,r^3\,R^6-13\,312\,l^2\,r^5\,R^6-32\,768\,r^7\,R^6-15\,360\,l^2\,r^4\,R^7-35\,840\,r^6\,R^7-16\,384\,r^5\,R^8\right)\Big)\Big/\left(\left(l^2-r^2-4\,r\,R-6\,R^2\right)^2\left(l^4+2\,l^2\,r^2+r^4-20\,l^2\,r\,R+12\,r^3\,R+32\,r^2\,R^2\right)^2\right)\Big\}$$

$$\left\{X25,\ \text{HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES},\ X88,\ \text{ISOGONAL CONJUGATE OF } X(44),\ \frac{1}{\left(l^2+3\,r^2-15\,r\,R\right)^2\left(l^2-r^2-4\,r\,R-6\,R^2\right)^2}\right.$$
$$R\left(l^8\,r+4\,l^6\,r^3-38\,l^4\,r^5+60\,l^2\,r^7-27\,r^9-l^8\,R-34\,l^6\,r^2\,R-16\,l^4\,r^4\,R+330\,l^2\,r^6\,R-279\,r^8\,R+28\,l^6\,r\,R^2+316\,l^4\,r^3\,R^2+108\,l^2\,r^5\,R^2-900\,r^7\,R^2+4\,l^6\,R^3-211\,l^4\,r^2\,R^3-1206\,l^2\,r^4\,R^3-603\,r^6\,R^3-112\,l^4\,r\,R^4+408\,l^2\,r^3\,R^4+1368\,r^5\,R^4+912\,l^2\,r^2\,R^5+720\,r^4\,R^5-2304\,r^3\,R^6\right)\Big\}$$

$$\left\{X25,\ \text{HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES},\ X89,\ \text{ISOGONAL CONJUGATE OF } X(45),\ -\frac{1}{\left(2\,l^2-6\,r^2+3\,r\,R\right)^2\left(l^2-r^2-4\,r\,R-6\,R^2\right)^2}\right.$$
$$R\left(2\,l^8\,r+20\,l^6\,r^3+8\,l^4\,r^5-84\,l^2\,r^7+54\,r^9+4\,l^8\,R+58\,l^6\,r^2\,R-158\,l^4\,r^4\,R-642\,l^2\,r^6\,R+738\,r^8\,R-40\,l^6\,r\,R^2-400\,l^4\,r^3\,R^2-1800\,l^2\,r^5\,R^2+4032\,r^7\,R^2-16\,l^6\,R^3-857\,l^4\,r^2\,R^3-1422\,l^2\,r^4\,R^3+11\,511\,r^6\,R^3+64\,l^4\,r\,R^4+264\,l^2\,r^3\,R^4+18\,936\,r^5\,R^4+2496\,l^2\,r^2\,R^5+18\,288\,r^4\,R^5+9216\,r^3\,R^6\right)\Big\}$$

$$\left\{X25,\ \text{HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES},\ X90,\ X(3)\text{-CROSS CONJUGATE OF } X(1),\ \frac{1}{\left(l^2-r^2-4\,r\,R-6\,R^2\right)^2\left(r^2+2\,r\,R-R^2\right)^2}\right.$$
$$R\left(2\,l^6\,r^3-4\,l^4\,r^5+2\,l^2\,r^7-4\,l^6\,r^2\,R-5\,l^4\,r^4\,R+10\,l^2\,r^6\,R-r^8\,R+2\,l^6\,r\,R^2+2\,l^4\,r^3\,R^2+26\,l^2\,r^5\,R^2-14\,r^7\,R^2+14\,l^4\,r^2\,R^3+40\,l^2\,r^4\,R^3-78\,r^6\,R^3-18\,l^4\,r\,R^4+52\,l^2\,r^3\,R^4-226\,r^5\,R^4-l^4\,R^5+54\,l^2\,r^2\,R^5-373\,r^4\,R^5+60\,l^2\,r\,R^6-364\,r^3\,R^6+4\,l^2\,R^7-204\,r^2\,R^7-64\,r\,R^8\right)\Big\}$$

$$\Big\{\text{X25, HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES, X91,}$$
$$\text{ISOGONAL CONJUGATE OF X(47)}, \frac{1}{\left(l^2-r^2-4\,r\,R-6\,R^2\right)^2\left(l^2\,r+r^3-l^2\,R+3\,r^2\,R+2\,r\,R^2+2\,R^3\right)^2}$$
$$R\,\big(l^{10}\,r-11\,l^8\,r^3+38\,l^6\,r^5-50\,l^4\,r^7+25\,l^2\,r^9-3\,r^{11}-25\,l^8\,r^2\,R+176\,l^6\,r^4\,R-398\,l^4\,r^6\,R+304\,l^2\,r^8\,R-$$
$$57\,r^{10}\,R-14\,l^8\,r\,R^2+364\,l^6\,r^3\,R^2-1400\,l^4\,r^5\,R^2+1652\,l^2\,r^7\,R^2-474\,r^9\,R^2-l^8\,R^3+308\,l^6\,r^2\,R^3-$$
$$2658\,l^4\,r^4\,R^3+5132\,l^2\,r^6\,R^3-2269\,r^8\,R^3+96\,l^6\,r\,R^4-2856\,l^4\,r^3\,R^4+9856\,l^2\,r^5\,R^4-6904\,r^7\,R^4+$$
$$8\,l^6\,R^5-1500\,l^4\,r^2\,R^5+11\,824\,l^2\,r^4\,R^5-13\,884\,r^6\,R^5-328\,l^4\,r\,R^6+8512\,l^2\,r^3\,R^6-18\,552\,r^5\,R^6-$$
$$20\,l^4\,R^7+3176\,l^2\,r^2\,R^7-16\,084\,r^4\,R^7+496\,l^2\,r\,R^8-8496\,r^3\,R^8+16\,l^2\,R^9-2352\,r^2\,R^9-256\,r\,R^{10}\big)\Big\}$$

$$\Big\{\text{X25, HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES,}$$
$$\text{X92, CEVAPOINT OF INCENTER AND CLAWSON POINT,}$$
$$-\frac{(l-r-2\,R)^2\,R\,(l+r+2\,R)^2\left(3\,l^2-r^2-8\,r\,R-16\,R^2\right)\left(4\,l^2\,r-4\,r^3+l^2\,R-11\,r^2\,R-16\,r\,R^2\right)}{\left(l^2-r^2-4\,r\,R-6\,R^2\right)^2\left(l^2+r^2-4\,R^2\right)^2}\Big\}$$

$$\Big\{\text{X25, HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES, X93, ISOGONAL CONJUGATE OF X(49),}$$
$$\Big((l-r-2\,R)^2\,R^2\,(l+r+2\,R)^2\,\big(l^8-76\,l^6\,r^2+102\,l^4\,r^4-76\,l^2\,r^6+r^8-16\,l^6\,r\,R+624\,l^4\,r^3\,R-624\,l^2\,r^5\,R+$$
$$16\,r^7\,R-14\,l^6\,R^2+850\,l^4\,r^2\,R^2-2098\,l^2\,r^4\,R^2+110\,r^6\,R^2+168\,l^4\,r\,R^3-3440\,l^2\,r^3\,R^3+424\,r^5\,R^3+$$
$$54\,l^4\,R^4-2484\,l^2\,r^2\,R^4+982\,r^4\,R^4-432\,l^2\,r\,R^5+1328\,r^3\,R^5-38\,l^2\,R^6+902\,r^2\,R^6+152\,r\,R^7+9\,R^8\big)\Big)\Big/$$
$$\Big(\left(l^2-r^2-4\,r\,R-6\,R^2\right)^2\left(l^4+2\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-8\,l^2\,R^2+24\,r^2\,R^2+32\,r\,R^3+13\,R^4\right)^2\Big)\Big\}$$

$$\Big\{\text{X25, HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES, X94, ISOGONAL CONJUGATE OF X(50),}$$
$$\Big(R^2\,\big(3\,l^{12}-74\,l^{10}\,r^2+253\,l^8\,r^4-364\,l^6\,r^6+253\,l^4\,r^8-74\,l^2\,r^{10}+3\,r^{12}-72\,l^{10}\,r\,R+1256\,l^8\,r^3\,R-$$
$$3280\,l^6\,r^5\,R+3280\,l^4\,r^7\,R-1256\,l^2\,r^9\,R+72\,r^{11}\,R-50\,l^{10}\,R^2+1938\,l^8\,r^2\,R^2-11\,596\,l^6\,r^4\,R^2+$$
$$18\,156\,l^4\,r^6\,R^2-9474\,l^2\,r^8\,R^2+770\,r^{10}\,R^2+1000\,l^8\,r\,R^3-19\,456\,l^6\,r^3\,R^3+54\,832\,l^4\,r^5\,R^3-$$
$$41\,472\,l^2\,r^7\,R^3+4840\,r^9\,R^3+300\,l^8\,R^4-15\,200\,l^6\,r^2\,R^4+95\,784\,l^4\,r^4\,R^4-115\,040\,l^2\,r^6\,R^4+$$
$$19\,820\,r^8\,R^4-4800\,l^6\,r\,R^5+94\,400\,l^4\,r^3\,R^5-206\,784\,l^2\,r^5\,R^5+55\,232\,r^7\,R^5-774\,l^6\,R^6+$$
$$47\,106\,l^4\,r^2\,R^6-235\,906\,l^2\,r^4\,R^6+105\,862\,r^6\,R^6+9288\,l^4\,r\,R^7-159\,312\,l^2\,r^3\,R^7+137\,288\,r^5\,R^7+$$
$$729\,l^4\,R^8-54\,162\,l^2\,r^2\,R^8+114\,681\,r^4\,R^8-5832\,l^2\,r\,R^9+55\,368\,r^3\,R^9+11\,664\,r^2\,R^{10}\big)\Big)\Big/$$
$$\Big(\left(l^2-r^2-4\,r\,R-6\,R^2\right)^2\left(l^4+2\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-12\,l^2\,R^2+28\,r^2\,R^2+48\,r\,R^3+27\,R^4\right)^2\Big)\Big\}$$

$$\Big\{\text{X25, HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES,}$$
$$\text{X95, CEVAPOINT OF CENTROID AND CIRCUMCENTER,}$$
$$-\Big(\Big(R^2\,\big(3\,l^{12}+134\,l^{10}\,r^2-259\,l^8\,r^4+244\,l^6\,r^6-259\,l^4\,r^8+134\,l^2\,r^{10}+3\,r^{12}-72\,l^{10}\,r\,R-$$
$$2072\,l^8\,r^3\,R+4144\,l^6\,r^5\,R-4144\,l^4\,r^7\,R+2072\,l^2\,r^9\,R+72\,r^{11}\,R-40\,l^{10}\,R^2-1128\,l^8\,r^2\,R^2+$$
$$17\,328\,l^6\,r^4\,R^2-25\,616\,l^4\,r^6\,R^2+13\,560\,l^2\,r^8\,R^2+760\,r^{10}\,R^2+800\,l^8\,r\,R^3+17\,536\,l^6\,r^3\,R^3-$$
$$71\,232\,l^4\,r^5\,R^3+48\,768\,l^2\,r^7\,R^3+4640\,r^9\,R^3+176\,l^8\,R^4+3456\,l^6\,r^2\,R^4-93\,024\,l^4\,r^4\,R^4+$$
$$104\,832\,l^2\,r^6\,R^4+18\,096\,r^8\,R^4-2816\,l^6\,r\,R^5-50\,432\,l^4\,r^3\,R^5+137\,472\,l^2\,r^5\,R^5+$$
$$46\,848\,r^7\,R^5-256\,l^6\,R^6-8448\,l^4\,r^2\,R^6+109\,312\,l^2\,r^4\,R^6+80\,640\,r^6\,R^6+3072\,l^4\,r\,R^7+$$
$$53\,248\,l^2\,r^3\,R^7+89\,088\,r^5\,R^7+15\,360\,l^2\,r^2\,R^8+57\,344\,r^4\,R^8+16\,384\,r^3\,R^9\big)\Big)\Big/$$
$$\Big(\left(l^2-r^2-4\,r\,R-6\,R^2\right)^2\left(l^4+18\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-4\,l^2\,R^2+20\,r^2\,R^2+16\,r\,R^3\right)^2\Big)\Big)\Big\}$$

$$\Big\{\text{X25, HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES, X96, ISOGONAL CONJUGATE OF X(52),}$$
$$\Big(R^2\,\big(9\,l^{12}-110\,l^{10}\,r^2+247\,l^8\,r^4-292\,l^6\,r^6+247\,l^4\,r^8-110\,l^2\,r^{10}+9\,r^{12}-216\,l^{10}\,r\,R+$$
$$1976\,l^8\,r^3\,R-3952\,l^6\,r^5\,R+3952\,l^4\,r^7\,R-1976\,l^2\,r^9\,R+216\,r^{11}\,R-168\,l^{10}\,R^2+$$
$$4024\,l^8\,r^2\,R^2-18\,384\,l^6\,r^4\,R^2+26\,288\,l^4\,r^6\,R^2-15\,880\,l^2\,r^8\,R^2+2328\,r^{10}\,R^2+3360\,l^8\,r\,R^3-$$
$$37\,248\,l^6\,r^3\,R^3+92\,096\,l^4\,r^5\,R^3-74\,624\,l^2\,r^7\,R^3+14\,880\,r^9\,R^3+1160\,l^8\,R^4-37\,120\,l^6\,r^2\,R^4+$$
$$182\,512\,l^4\,r^4\,R^4-223\,488\,l^2\,r^6\,R^4+62\,600\,r^8\,R^4-18\,560\,l^6\,r\,R^5+208\,000\,l^4\,r^3\,R^5-$$
$$436\,352\,l^2\,r^5\,R^5+181\,376\,r^7\,R^5-3904\,l^6\,R^6+134\,848\,l^4\,r^2\,R^6-550\,848\,l^2\,r^4\,R^6+367\,168\,r^6\,R^6+$$
$$46\,848\,l^4\,r\,R^7-437\,760\,l^2\,r^3\,R^7+515\,840\,r^5\,R^7+6928\,l^4\,R^8-209\,696\,l^2\,r^2\,R^8+491\,280\,r^4\,R^8-$$
$$55\,424\,l^2\,r\,R^9+305\,280\,r^3\,R^9-6272\,l^2\,R^{10}+117\,120\,r^2\,R^{10}+25\,088\,r\,R^{11}+2304\,R^{12}\big)\Big)\Big/$$
$$\Big(\left(l^2-r^2-4\,r\,R-6\,R^2\right)^2\left(l^4-14\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R+16\,r^2\,R^2-4\,R^4\right)^2\Big)\Big\}$$

$$\{X25, \text{HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES}, X97, \text{ISOGONAL CONJUGATE OF } X(53),$$
$$-\left(\left(R^2\left(8 l^{10} r^2 - 64 l^8 r^4 + 112 l^6 r^6 - 64 l^4 r^8 + 8 l^2 r^{10} - 128 l^8 r^3 R + 640 l^6 r^5 R - 640 l^4 r^7 R + 128 l^2 r^9 R + 2 l^{10} R^2 - 210 l^8 r^2 R^2 + 1836 l^6 r^4 R^2 - 3116 l^4 r^6 R^2 + 978 l^2 r^8 R^2 - 2 r^{10} R^2 - 40 l^8 r R^3 + 2560 l^6 r^3 R^3 - 8880 l^4 r^5 R^3 + 4608 l^2 r^7 R^3 - 40 r^9 R^3 - 25 l^8 R^4 + 2052 l^6 r^2 R^4 - 15318 l^4 r^4 R^4 + 14340 l^2 r^6 R^4 - 345 r^8 R^4 + 400 l^6 r R^5 - 15536 l^4 r^3 R^5 + 29616 l^2 r^5 R^5 - 1680 r^7 R^5 + 104 l^6 R^6 - 8280 l^4 r^2 R^6 + 39352 l^2 r^4 R^6 - 5064 r^6 R^6 - 1248 l^4 r R^7 + 31168 l^2 r^3 R^7 - 9696 r^5 R^7 - 144 l^4 R^8 + 12192 l^2 r^2 R^8 - 11536 r^4 R^8 + 1152 l^2 r R^9 - 7808 r^3 R^9 - 2304 r^2 R^{10}\right)\right) \Big/ \left(\left(l^2 - r^2 - 4 r R - 6 R^2\right)^2 \left(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 7 l^2 R^2 + 23 r^2 R^2 + 28 r R^3 + 12 R^4\right)^2\right)\right)\}$$

$$\{X25, \text{HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES}, X98, \text{TarryPoint},$$
$$\frac{R^2\left(l^2 - r^2 - 4 r R\right)^2\left(5 l^4 - 6 l^2 r^2 + 5 r^4 - 40 l^2 r R + 40 r^3 R - 56 l^2 R^2 + 136 r^2 R^2 + 224 r R^3 + 144 R^4\right)}{\left(l^2 - r^2 - 4 r R - 6 R^2\right)^2\left(l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\right)}\}$$

$$\{X25, \text{HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES},$$
$$X99, \text{STEINER POINT}, -\left(\left(R^2\left(3 l^8 + 16 l^6 r^2 - 38 l^4 r^4 + 16 l^2 r^6 + 3 r^8 - 48 l^6 r R - 80 l^4 r^3 R + 80 l^2 r^5 R + 48 r^7 R - 16 l^6 R^2 - 144 l^4 r^2 R^2 + 304 l^2 r^4 R^2 + 304 r^6 R^2 + 192 l^4 r R^3 + 768 l^2 r^3 R^3 + 960 r^5 R^3 + 960 l^2 r^2 R^4 + 1536 r^4 R^4 + 1024 r^3 R^5\right)\right) \Big/ \left(\left(l^2 - r^2 - 4 r R - 6 R^2\right)^2\left(l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\right)\right)\right)\}$$

$$\{X25, \text{HOMOTHETIC CENTER OF ORTHIC AND TANGENTIAL TRIANGLES},$$
$$X100, \text{ANTICOMPLEMENT OF FEUERBACH POINT},$$
$$\frac{R^2\left(2 l^4 r - 4 l^2 r^3 + 2 r^5 + 3 l^4 R - 30 l^2 r^2 R + 27 r^4 R - 72 l^2 r R^2 + 136 r^3 R^2 - 16 l^2 R^3 + 304 r^2 R^3 + 256 r R^4\right)}{(2 r - R)\left(-l^2 + r^2 + 4 r R + 6 R^2\right)^2}$$
$$\}$$

$$\{X26, \text{CIRCUMCENTER OF THE TANGENTIAL TRIANGLE},$$
$$X27, \text{CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER},$$
$$-\frac{\left(2 l^2 - 2 r^2 - 8 r R - 9 R^2\right)\left(l^4 - r^4 - 8 r^3 R - l^2 R^2 - 21 r^2 R^2 - 20 r R^3 - 4 R^4\right)^2}{(l - r - 2 R)^2 (l + r + 2 R)^2\left(l^2 - 3 r^2 - 12 r R - 12 R^2\right)^2}\}$$

$$\{X26, \text{CIRCUMCENTER OF THE TANGENTIAL TRIANGLE}, X28, \text{CEVAPOINT OF } X(19) \text{ AND } X(25),$$
$$-\frac{R^2\left(2 l^2 - 2 r^2 - 8 r R - 9 R^2\right)\left(l^2 r - r^3 + l^2 R - 5 r^2 R - 7 r R^2 - 2 R^3\right)^2}{(l - r - 2 R)^2 (l + r + 2 R)^2\left(l^2 - r^2 - 5 r R - 6 R^2\right)^2}\}$$

$$\{X26, \text{CIRCUMCENTER OF THE TANGENTIAL TRIANGLE}, X29, \text{CEVAPOINT OF INCENTER AND ORTHOCENTER},$$
$$-\frac{\left(2 l^2 - 2 r^2 - 8 r R - 9 R^2\right)\left(l^4 - r^4 - 4 l^2 r R - 4 r^3 R - 5 l^2 R^2 - r^2 R^2 + 8 r R^3 + 4 R^4\right)^2}{(l - r - 2 R)^2 (l + r + 2 R)^2\left(3 l^2 - r^2 - 8 r R - 12 R^2\right)^2}\}$$

$$\{X26, \text{CIRCUMCENTER OF THE TANGENTIAL TRIANGLE}, X30, \text{EulerInfinityPoint}, \infty\}$$

$$\{X26, \text{CIRCUMCENTER OF THE TANGENTIAL TRIANGLE}, X31, \text{SecondPowerPoint},$$
$$-\left(\left(R^2\left(10 l^6 r^2 - 30 l^4 r^4 + 22 l^2 r^6 - 2 r^8 - 88 l^4 r^3 R + 144 l^2 r^5 R - 24 r^7 R - 72 l^4 r^2 R^2 + 344 l^2 r^4 R^2 - 112 r^6 R^2 + 352 l^2 r^3 R^3 - 256 r^5 R^3 - l^4 R^4 + 134 l^2 r^2 R^4 - 297 r^4 R^4 + 12 l^2 r R^5 - 164 r^3 R^5 - 36 r^2 R^6\right)\right) \Big/ \left((l - r - 2 R)^2 (l + r + 2 R)^2\left(l^2 - 3 r^2 - 6 r R\right)^2\right)\right)\}$$

$$\{X26, \text{CIRCUMCENTER OF THE TANGENTIAL TRIANGLE}, X32, \text{ThirdPowerPoint},$$
$$-\left(\left(R^2\left(12 l^{10} r^2 - 64 l^8 r^4 + 104 l^6 r^6 - 64 l^4 r^8 + 12 l^2 r^{10} - 192 l^8 r^3 R + 704 l^6 r^5 R - 704 l^4 r^7 R + 192 l^2 r^9 R - 88 l^8 r^2 R^2 + 1512 l^6 r^4 R^2 - 2920 l^4 r^6 R^2 + 1240 l^2 r^8 R^2 + 1056 l^6 r^3 R^3 - 5568 l^4 r^5 R^3 + 4128 l^2 r^7 R^3 - l^8 R^4 + 172 l^6 r^2 R^4 - 4710 l^4 r^4 R^4 + 7468 l^2 r^6 R^4 - r^8 R^4 + 16 l^6 r R^5 - 1392 l^4 r^3 R^5 + 7024 l^2 r^5 R^5 - 16 r^7 R^5 - 96 l^4 r^2 R^6 + 2880 l^2 r^4 R^6 - 96 r^6 R^6 + 256 l^2 r^3 R^7 - 256 r^5 R^7 - 256 r^4 R^8\right)\right) \Big/ \left((l - r - 2 R)^2 (l + r + 2 R)^2\left(l^2 - 2 l r - r^2 - 4 r R\right)^2\left(l^2 + 2 l r - r^2 - 4 r R\right)^2\right)\right)\}$$

$$\Big\{\text{X26, CIRCUMCENTER OF THE TANGENTIAL TRIANGLE, X33, PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES,}$$
$$-\frac{1}{(1-r-2R)^2(1+r+2R)^2\left(1^2-r^2-2rR-4R^2\right)^2}$$
$$R\left(4l^8r-12l^6r^3+12l^4r^5-4l^2r^7-50l^6r^2R+102l^4r^4R-54l^2r^6R+2r^8R-56l^6rR^2+340l^4r^3R^2-320l^2r^5R^2+36r^7R^2+520l^4r^2R^3-1040l^2r^4R^3+264r^6R^3+288l^4rR^4-1888l^2r^3R^4+1024r^5R^4-l^4R^5-1758l^2r^2R^5+2271r^4R^5-636l^2rR^6+2876r^3R^6+8l^2R^7+1908r^2R^7+496rR^8-16R^9\right)\Big\}$$

$$\Big\{\text{X26, CIRCUMCENTER OF THE TANGENTIAL TRIANGLE, X34, X(4)-BETH CONJUGATE OF X(4),}$$
$$\frac{1}{(1-r-2R)^2(1+r+2R)^2\left(l^2-r^2-6rR-4R^2\right)^2}$$
$$R\left(4l^6r^3-12l^4r^5+12l^2r^7-4r^9-6l^6r^2R-30l^4r^4R+78l^2r^6R-42r^8R+4l^6rR^2+16l^4r^3R^2+148l^2r^5R^2-168r^7R^2+16l^4r^2R^3+32l^2r^4R^3-304r^6R^3-48l^4rR^4-64l^2r^3R^4-208r^5R^4+l^4R^5+158l^2r^2R^5-31r^4R^5+180l^2rR^6-244r^3R^6-8l^2R^7-468r^2R^7-208rR^8+16R^9\right)\Big\}$$

$$\Big\{\text{X26, CIRCUMCENTER OF THE TANGENTIAL TRIANGLE, X35, \{X(1),X(3)\}-HARMONIC CONJUGATE OF X(36),}$$
$$-\frac{R^3\left(4l^4r-4l^2r^3-18l^2r^2R+2r^4R-26l^2rR^2+18r^3R^2+44r^2R^3+36rR^4-R^5\right)}{(2r+R)^2(-l+r+2R)^2(l+r+2R)^2}\Big\}$$

$$\Big\{\text{X26, CIRCUMCENTER OF THE TANGENTIAL TRIANGLE, X36, INVERSE-IN-CIRCUMCIRCLE OF INCENTER,}$$
$$-\frac{R^3\left(-2l^2r^2+2r^4+2l^2rR+6r^3R-10rR^3+R^4\right)}{(2r-R)(-l+r+2R)^2(l+r+2R)^2}\Big\}$$

$$\Big\{\text{X26, CIRCUMCENTER OF THE TANGENTIAL TRIANGLE, X37, CrosspointOfIncenterAndCentroid,}$$
$$-\Big(\Big(R\left(4l^8r-12l^6r^3+12l^4r^5-4l^2r^7-36l^6r^2R+72l^4r^4R-36l^2r^6R-28l^6rR^2+160l^4r^3R^2-132l^2r^5R^2+160l^4r^2R^3-256l^2r^4R^3+48l^4rR^4-272l^2r^3R^4-l^4R^5-130l^2r^2R^5-r^4R^5-8l^2rR^6-8r^3R^6-16r^2R^7\right)\Big)\Big/\Big((1-r-2R)^2(1+r+2R)^2\left(l^2+r^2+4rR\right)^2\Big)\Big)\Big\}$$

$$\Big\{\text{X26, CIRCUMCENTER OF THE TANGENTIAL TRIANGLE, X38, CROSSPOINT OF X(1) AND X(75),}$$
$$-\frac{1}{(1-r-2R)^2(1+r+2R)^2\left(l^2+r^2-2rR\right)^2}$$
$$R\left(4l^8r-24l^6r^3+48l^4r^5-40l^2r^7+12r^9-70l^6r^2R+306l^4r^4R-410l^2r^6R+174r^8R-28l^6rR^2+628l^4r^3R^2-1588l^2r^5R^2+1020r^7R^2+400l^4r^2R^3-2840l^2r^4R^3+3112r^6R^3+48l^4rR^4-2272l^2r^3R^4+5264r^5R^4-l^4R^5-546l^2r^2R^5+4735r^4R^5+4l^2rR^6+1796r^3R^6-4r^2R^7\right)\Big\}$$

$$\Big\{\text{X26, CIRCUMCENTER OF THE TANGENTIAL TRIANGLE, X39, BrocardMidpoint,}$$
$$-\Big(\Big(R^2\left(20l^{10}r^2-64l^8r^4+88l^6r^6-64l^4r^8+20l^2r^{10}-320l^8r^3R+832l^6r^5R-832l^4r^7R+320l^2r^9R-136l^8r^2R^2+2296l^6r^4R^2-3960l^4r^6R^2+2056l^2r^8R^2+1632l^6r^3R^3-8256l^4r^5R^3+6752l^2r^7R^3-l^8R^4+220l^6r^2R^4-7110l^4r^4R^4+11868l^2r^6R^4-r^8R^4+16l^6rR^5-1776l^4r^3R^5+10480l^2r^5R^5-16r^7R^5-96l^4r^2R^6+3648l^2r^4R^6-96r^6R^6+256l^2r^3R^7-256r^5R^7-256r^4R^8\right)\Big)\Big/\Big((1-r-2R)^2(1+r+2R)^2\left(l^4+2l^2r^2+r^4-8l^2rR+8r^3R+16r^2R^2\right)^2\Big)\Big)\Big\}$$

$$\Big\{\text{X26, CIRCUMCENTER OF THE TANGENTIAL TRIANGLE, X40, BEVAN POINT,}$$
$$-\Big(\Big(R\left(2l^4r-4l^2r^3+2r^5-2l^4R-14l^2r^2R+16r^4R-2l^2rR^2+42r^3R^2+20l^2R^3+28r^2R^3-40rR^4-49R^5\right)\Big)\Big/\Big((1-r-2R)^2(1+r+2R)^2\Big)\Big)\Big\}$$

$$\Big\{\text{X26, CIRCUMCENTER OF THE TANGENTIAL TRIANGLE, X41, X(6)-CEVA CONJUGATE OF X(31),}$$
$$\frac{1}{(1-r-2R)^2(1+r+2R)^2\left(3l^2r-r^3+2l^2R-8r^2R-16rR^2\right)^2}$$
$$R^2\left(2l^8r^2-22l^6r^4+30l^4r^6-10l^2r^8+4l^8rR-116l^6r^3R+300l^4r^5R-156l^2r^7R-168l^6r^2R^2+1112l^4r^4R^2-976l^2r^6R^2-32l^6rR^3+1776l^4r^3R^3-3120l^2r^5R^3+1033l^4r^2R^4-5350l^2r^4R^4+r^6R^4+76l^4rR^5-4660l^2r^3R^5+16r^5R^5+4l^4R^6-1664l^2r^2R^6+96r^4R^6-64l^2rR^7+256r^3R^7+256r^2R^8\right)\Big\}$$

$$\{X26,\ \text{CIRCUMCENTER OF THE TANGENTIAL TRIANGLE},\ X42,\ \text{CROSSPOINT OF INCENTER AND SYMMEDIAN POINT},\ -\left(\left(R^2\left(22 l^6 r^2-34 l^4 r^4+10 l^2 r^6+2 r^8-144 l^4 r^3 R+80 l^2 r^5 R+32 r^7 R-152 l^4 r^2 R^2+248 l^2 r^4 R^2+192 r^6 R^2+384 l^2 r^3 R^3+544 r^5 R^3-l^4 R^4+254 l^2 r^2 R^4+735 r^4 R^4+4 l^2 r R^5+388 r^3 R^5-4 r^2 R^6\right)\right)\Big/\left((l-r-2R)^2(l+r+2R)^2\left(l^2+r^2-2rR\right)^2\right)\right)\}$$

$$\{X26,\ \text{CIRCUMCENTER OF THE TANGENTIAL TRIANGLE},\ X43,\ X(6)\text{-CEVA CONJUGATE OF } X(1),\ \frac{1}{(l-r-2R)^2(l+r+2R)^2\left(l^2+r^2-8rR\right)^2}\ R\left(2 l^8 r-4 l^4 r^5+2 r^9-58 l^6 r^2 R+86 l^4 r^4 R-70 l^2 r^6 R+42 r^8 R-14 l^6 r R^2+410 l^4 r^3 R^2-546 l^2 r^5 R^2+310 r^7 R^2+344 l^4 r^2 R^3-1408 l^2 r^4 R^3+1064 r^6 R^3+24 l^4 r R^4-1392 l^2 r^3 R^4+1784 r^5 R^4+l^4 R^5-478 l^2 r^2 R^5+1313 r^4 R^5-16 l^2 r R^6+240 r^3 R^6+64 r^2 R^7\right)\}$$

$$\{X26,\ \text{CIRCUMCENTER OF THE TANGENTIAL TRIANGLE},\ X44,\ X(6)\text{-LINE CONJUGATE OF } X(1),\ \left(R\left(4 l^8 r+4 l^6 r^3-20 l^4 r^5+12 l^2 r^7-100 l^6 r^2 R+88 l^4 r^4 R+12 l^2 r^6 R-28 l^6 r R^2+592 l^4 r^3 R^2-372 l^2 r^5 R^2+576 l^4 r^2 R^3-1440 l^2 r^4 R^3+48 l^4 r R^4-1872 l^2 r^3 R^4+l^4 R^5-774 l^2 r^2 R^5+9 r^4 R^5-24 l^2 r R^6+72 r^3 R^6+144 r^2 R^7\right)\right)\Big/\left((l-r-2R)^2(l+r+2R)^2\left(l^2-3r^2-12rR\right)^2\right)\}$$

$$\{X26,\ \text{CIRCUMCENTER OF THE TANGENTIAL TRIANGLE},\ X45,\ X(9)\text{-BETH CONJUGATE OF } X(1),\ -\left(\left(R\left(8 l^8 r-40 l^6 r^3+56 l^4 r^5-24 l^2 r^7-56 l^6 r^2 R+224 l^4 r^4 R-168 l^2 r^6 R-56 l^6 r R^2+272 l^4 r^3 R^2-408 l^2 r^5 R^2+240 l^4 r^2 R^3-432 l^2 r^4 R^3+96 l^4 r R^4-288 l^2 r^3 R^4-l^4 R^5-198 l^2 r^2 R^5-9 r^4 R^5-24 l^2 r R^6-72 r^3 R^6-144 r^2 R^7\right)\right)\Big/\left((l-r-2R)^2(l+r+2R)^2\left(l^2+3r^2+12rR\right)^2\right)\right)\}$$

$$\{X26,\ \text{CIRCUMCENTER OF THE TANGENTIAL TRIANGLE},\ X46,\ X(4)\text{-CEVA CONJUGATE OF } X(1),\ -\left(\left(R\left(2 l^4 r^3-4 l^2 r^5+2 r^7+2 l^4 r^2 R-22 l^2 r^4 R+20 r^6 R-34 l^2 r^3 R^2+74 r^5 R^2-10 l^2 r^2 R^3+122 r^4 R^3-2 l^2 r R^4+82 r^3 R^4+15 r^2 R^5+10 r R^6-R^7\right)\right)\Big/\left((r-R)^2(-l+r+2R)^2(l+r+2R)^2\right)\right)\}$$

$$\{X26,\ \text{CIRCUMCENTER OF THE TANGENTIAL TRIANGLE},\ X47,\ X(110)\text{-BETH CONJUGATE OF } X(34),\ -\left(\left(R^2\left(10 l^6 r^2-30 l^4 r^4+22 l^2 r^6-2 r^8-4 l^6 r R-84 l^4 r^3 R+148 l^2 r^5 R-28 r^7 R-48 l^4 r^2 R^2+360 l^2 r^4 R^2-152 r^6 R^2+36 l^4 r R^3+336 l^2 r^3 R^3-404 r^5 R^3-l^4 R^4+22 l^2 r^2 R^4-537 r^4 R^4-92 l^2 r R^5-284 r^3 R^5+4 l^2 R^6+48 r^2 R^6+72 r R^7-4 R^8\right)\right)\Big/\left((l-r-2R)^2(l+r+2R)^2\left(l^2-3r^2-6rR-2R^2\right)^2\right)\right)\}$$

$$\{X26,\ \text{CIRCUMCENTER OF THE TANGENTIAL TRIANGLE},\ X48,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(63),\ \left(R^2\left(2 l^8-22 l^6 r^2+30 l^4 r^4-10 l^2 r^6-40 l^6 r R+176 l^4 r^3 R-104 l^2 r^5 R-16 l^6 R^2+344 l^4 r^2 R^2-424 l^2 r^4 R^2+240 l^4 r R^3-848 l^2 r^3 R^3+41 l^4 R^4-838 l^2 r^2 R^4+r^4 R^4-356 l^2 r R^5+12 r^3 R^5-48 l^2 R^6+52 r^2 R^6+96 r R^7+64 R^8\right)\right)\Big/\left((l-r-2R)^2(l+r+2R)^2\left(3l^2-r^2-6rR-8R^2\right)^2\right)\}$$

$$\{X26,\ \text{CIRCUMCENTER OF THE TANGENTIAL TRIANGLE},\ X49,\ \text{CENTER OF SINE-TRIPLE-ANGLE CIRCLE},\ \frac{1}{(l-r-2R)^2(l+r+2R)^2\left(2l^2-2r^2-8rR-7R^2\right)^2}\ R^2\left(l^8-16 l^6 r^2+30 l^4 r^4-16 l^2 r^6+r^8-16 l^6 r R+144 l^4 r^3 R-144 l^2 r^5 R+16 r^7 R-9 l^6 R^2+215 l^4 r^2 R^2-503 l^2 r^4 R^2+105 r^6 R^2+108 l^4 r R^3-840 l^2 r^3 R^3+364 r^5 R^3+26 l^4 R^4-660 l^2 r^2 R^4+714 r^4 R^4-208 l^2 r R^5+784 r^3 R^5-26 l^2 R^6+442 r^2 R^6+104 r R^7+9 R^8\right)\}$$

$$\{X26,\ \text{CIRCUMCENTER OF THE TANGENTIAL TRIANGLE},\ X50,\ X(74)\text{-CEVA CONJUGATE OF } X(184),\ -\left(\left(R^2\left(12 l^{10} r^2-64 l^8 r^4+104 l^6 r^6-64 l^4 r^8+12 l^2 r^{10}-192 l^8 r^3 R+704 l^6 r^5 R-704 l^4 r^7 R+192 l^2 r^9 R-172 l^8 r^2 R^2+1812 l^6 r^4 R^2-3220 l^4 r^6 R^2+1324 l^2 r^8 R^2+2064 l^6 r^3 R^3-7776 l^4 r^5 R^3+5136 l^2 r^7 R^3-l^8 R^4+916 l^6 r^2 R^4-10422 l^4 r^4 R^4+12244 l^2 r^6 R^4-r^8 R^4+16 l^6 r R^5-7344 l^4 r^3 R^5+18352 l^2 r^5 R^5-16 r^7 R^5+6 l^6 R^6-2202 l^4 r^2 R^6+16890 l^2 r^4 R^6-102 r^6 R^6-72 l^4 r R^7+8752 l^2 r^3 R^7-328 r^5 R^7-9 l^4 R^8+2034 l^2 r^2 R^8-553 r^4 R^8+72 l^2 r R^9-456 r^3 R^9-144 r^2 R^{10}\right)\right)\Big/\left((l-r-2R)^2(l+r+2R)^2\left(l^4-6l^2r^2+r^4-8l^2rR+8r^3R-3l^2R^2+19r^2R^2+12rR^3\right)^2\right)\right)\}$$

$$\{X26,\ \text{CIRCUMCENTER OF THE TANGENTIAL TRIANGLE},\ X51,\ \text{CENTROID OF ORTHIC TRIANGLE},$$
$$\left(-l^8-16 l^6 r^2+34 l^4 r^4-16 l^2 r^6-r^8+16 l^6 r R+112 l^4 r^3 R-112 l^2 r^5 R-16 r^7 R+6 l^6 R^2+22 l^4 r^2 R^2-246 l^2 r^4 R^2-102 r^6 R^2-72 l^4 r R^3-144 l^2 r^3 R^3-328 r^5 R^3+64 l^2 r^2 R^4-544 r^4 R^4-384 r^3 R^5-32 l^2 R^6+32 r^2 R^6+128 r R^7+36 R^8\right)\Big/\left(36 R^2 (-l+r+2R)^2 (l+r+2R)^2\right)\}$$

$$\{X26,\ \text{CIRCUMCENTER OF THE TANGENTIAL TRIANGLE},\ X52,$$
$$\text{ORTHOCENTER OF ORTHIC TRIANGLE},\ \frac{1}{4 R^2 (-l+r+2R)^2 (l+r+2R)^2}$$
$$\left(l^8-16 l^6 r^2+30 l^4 r^4-16 l^2 r^6+r^8-16 l^6 r R+144 l^4 r^3 R-144 l^2 r^5 R+16 r^7 R-10 l^6 R^2+214 l^4 r^2 R^2-502 l^2 r^4 R^2+106 r^6 R^2+120 l^4 r R^3-848 l^2 r^3 R^3+376 r^5 R^3+36 l^4 R^4-712 l^2 r^2 R^4+772 r^4 R^4-288 l^2 r R^5+928 r^3 R^5-56 l^2 R^6+632 r^2 R^6+224 r R^7+36 R^8\right)\}$$

$$\{X26,\ \text{CIRCUMCENTER OF THE TANGENTIAL TRIANGLE},\ X53,\ \text{SYMMEDIAN POINT OF ORTHIC TRIANGLE},$$
$$\left(4 l^{12} r^2-36 l^{10} r^4+88 l^8 r^6-88 l^6 r^8+36 l^4 r^{10}-4 l^2 r^{12}-80 l^{10} r^3 R+512 l^8 r^5 R-864 l^6 r^7 R+512 l^4 r^9 R-80 l^2 r^{11} R-68 l^{10} r^2 R^2+1072 l^8 r^4 R^2-3416 l^6 r^6 R^2+3120 l^4 r^8 R^2-708 l^2 r^{10} R^2+1088 l^8 r^3 R^3-7104 l^6 r^5 R^3+10688 l^4 r^7 R^3-3648 l^2 r^9 R^3+480 l^8 r^2 R^4-8480 l^6 r^4 R^4+22688 l^4 r^6 R^4-12128 l^2 r^8 R^4-5760 l^6 r^3 R^5+30976 l^4 r^5 R^5-27264 l^2 r^7 R^5+l^8 R^6-1804 l^6 r^2 R^6+27174 l^4 r^4 R^6-42252 l^2 r^6 R^6+r^8 R^6-16 l^6 r R^7+14448 l^4 r^3 R^7-45168 l^2 r^5 R^7+16 r^7 R^7-8 l^6 R^8+3736 l^4 r^2 R^8-32632 l^2 r^4 R^8+104 r^6 R^8+96 l^4 r R^9-14912 l^2 r^3 R^9+352 r^5 R^9+16 l^4 R^{10}-3488 l^2 r^2 R^{10}+656 r^4 R^{10}-128 l^2 r R^{11}+640 r^3 R^{11}+256 r^2 R^{12}\right)\Big/\left((l-r-2R)^2 (l+r+2R)^2 \left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-4 l^2 R^2+20 r^2 R^2+16 r R^3\right)^2\right)\}$$

$$\{X26,\ \text{CIRCUMCENTER OF THE TANGENTIAL TRIANGLE},\ X54,\ \text{KosnitaPoint},$$
$$-\left(\left(R^2\left(16 l^6 r^2-32 l^4 r^4+16 l^2 r^6-128 l^4 r^3 R+128 l^2 r^5 R-l^6 R^2-113 l^4 r^2 R^2+369 l^2 r^4 R^2+r^6 R^2+12 l^4 r R^3+440 l^2 r^3 R^3+12 r^5 R^3+5 l^4 R^4+150 l^2 r^2 R^4+53 r^4 R^4-40 l^2 r R^5+104 r^3 R^5-4 l^2 R^6+84 r^2 R^6+16 r R^7-9 R^8\right)\right)\Big/\left((l-r-2R)^2 (l+r+2R)^2 \left(2 l^2-2 r^2-8 r R-5 R^2\right)^2\right)\right)\}$$

$$\{X26,\ \text{CIRCUMCENTER OF THE TANGENTIAL TRIANGLE},\ X55,\ \text{INSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),$$
$$-\frac{R^3\left(3 l^4 r-4 l^2 r^3+r^5-18 l^2 r^2 R+10 r^4 R-20 l^2 r R^2+36 r^3 R^2+55 r^2 R^3+30 r R^4-R^5\right)}{(r+R)^2 (-l+r+2R)^2 (l+r+2R)^2}\}$$

$$\{X26,\ \text{CIRCUMCENTER OF THE TANGENTIAL TRIANGLE},\ X56,\ \text{EXSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),$$
$$-\frac{R^3\left(l^4 r-4 l^2 r^3+3 r^5-6 l^2 r^2 R+14 r^4 R-8 l^2 r R^2+24 r^3 R^2+23 r^2 R^3+18 r R^4-R^5\right)}{(r-R)^2 (-l+r+2R)^2 (l+r+2R)^2}\}$$

$$\{X26,\ \text{CIRCUMCENTER OF THE TANGENTIAL TRIANGLE},\ X57,\ \text{ISOGONAL CONJUGATE OF X}(9),$$
$$-\left(\left(R\left(2 l^4 r^3-4 l^2 r^5+2 r^7+6 l^4 r^2 R-30 l^2 r^4 R+24 r^6 R+4 l^4 r R^2-74 l^2 r^3 R^2+110 r^5 R^2-68 l^2 r^2 R^3+244 r^4 R^3-32 l^2 r R^4+280 r^3 R^4+175 r^2 R^5+68 r R^6-4 R^7\right)\right)\Big/\left((r-2R)^2 (-l+r+2R)^2 (l+r+2R)^2\right)\right)\}$$

$$\{X26,\ \text{CIRCUMCENTER OF THE TANGENTIAL TRIANGLE},\ X58,\ \text{ISOGONAL CONJUGATE OF X}(10),$$
$$-\left(\left(R^2\left(14 l^6 r^2-34 l^4 r^4+18 l^2 r^6+2 r^8-104 l^4 r^3 R+112 l^2 r^5 R+24 r^7 R-100 l^4 r^2 R^2+288 l^2 r^4 R^2+100 r^6 R^2+352 l^2 r^3 R^3+192 r^5 R^3-l^4 R^4+182 l^2 r^2 R^4+167 r^4 R^4+8 l^2 r R^5+40 r^3 R^5-16 r^2 R^6\right)\right)\Big/\left((l-r-2R)^2 (l+r+2R)^2 \left(l^2-3 r^2-4 r R\right)^2\right)\right)\}$$

$$\{X26,\ \text{CIRCUMCENTER OF THE TANGENTIAL TRIANGLE},\ X59,$$
$$\text{ISOGONAL CONJUGATE OF X}(11),\ -\frac{1}{(2r-R)(-l+r+2R)^2 (l+r+2R)^2 \left(-l^2+r^2+5 r R+4 R^2\right)^2}$$
$$R^2\left(8 l^6 r^3-16 l^4 r^5+8 l^2 r^7-13 l^6 r^2 R-41 l^4 r^4 R+53 l^2 r^6 R+r^8 R+5 l^6 r R^2+43 l^4 r^3 R^2+79 l^2 r^5 R^2+17 r^7 R^2+83 l^4 r^2 R^3-134 l^2 r^4 R^3+115 r^6 R^3-58 l^4 r R^4-376 l^2 r^3 R^4+386 r^5 R^4+l^4 R^5-58 l^2 r^2 R^5+633 r^4 R^5+214 l^2 r R^6+344 r^3 R^6-8 l^2 R^7-239 r^2 R^7-248 r R^8+16 R^9\right)\}$$

$$\Big\{X26,\ \text{CIRCUMCENTER OF THE TANGENTIAL TRIANGLE},\ X60,$$

$$\text{ISOGONAL CONJUGATE OF } X(12),\ -\frac{1}{(l-r-2R)^2\,(l+r+2R)^2\,\left(2l^2r-2r^3+l^2R-7r^2R-7rR^2\right)^2}$$

$$R^2\left(16l^6r^4-32l^4r^6+16l^2r^8+34l^6r^3R-190l^4r^5R+158l^2r^7R-2r^9R+19l^6r^2R^2-421l^4r^4R^2+653l^2r^6R^2-27r^8R^2+l^6rR^3-399l^4r^3R^3+1423l^2r^5R^3-145r^7R^3-143l^4r^2R^4+1702l^2r^4R^4-407r^6R^4-8l^4rR^5+1052l^2r^3R^5-644r^5R^5-l^4R^6+278l^2r^2R^6-569r^4R^6+14l^2rR^7-258r^3R^7-49r^2R^8\right)\Big\}$$

$$\Big\{X26,\ \text{CIRCUMCENTER OF THE TANGENTIAL TRIANGLE},\ X61,$$

$$\text{ISOGONAL CONJUGATE OF } X(17),\ \frac{1}{(l-r-2R)^2\,(l+r+2R)^2\,\left(3l^2+2\sqrt{3}\,lr-3r^2-12rR\right)^2}$$

$$3R^2\left(-2\sqrt{3}\,l^7r-48l^6r^2-2\sqrt{3}\,l^5r^3+96l^4r^4+2\sqrt{3}\,l^3r^5-48l^2r^6+2\sqrt{3}\,lr^7+24\sqrt{3}\,l^5r^2R+384l^4r^3R-16\sqrt{3}\,l^3r^4R-384l^2r^5R+24\sqrt{3}\,lr^6R+12\sqrt{3}\,l^5rR^2+328l^4r^2R^2-88\sqrt{3}\,l^3r^3R^2-1096l^2r^4R^2+108\sqrt{3}\,lr^5R^2-96\sqrt{3}\,l^3r^2R^3-1312l^2r^3R^3+224\sqrt{3}\,lr^4R^3+3l^4R^4-12\sqrt{3}\,l^3rR^4-546l^2r^2R^4+204\sqrt{3}\,lr^3R^4+3r^4R^4-24l^2rR^5+48\sqrt{3}\,lr^2R^5+24r^3R^5+48r^2R^6\right)\Big\}$$

$$\Big\{X26,\ \text{CIRCUMCENTER OF THE TANGENTIAL TRIANGLE},\ X62,$$

$$\text{ISOGONAL CONJUGATE OF } X(18),\ \frac{1}{(l-r-2R)^2\,(l+r+2R)^2\,\left(3l^2-2\sqrt{3}\,lr-3r^2-12rR\right)^2}$$

$$3R^2\left(2\sqrt{3}\,l^7r-48l^6r^2+2\sqrt{3}\,l^5r^3+96l^4r^4-2\sqrt{3}\,l^3r^5-48l^2r^6-2\sqrt{3}\,lr^7-24\sqrt{3}\,l^5r^2R+384l^4r^3R+16\sqrt{3}\,l^3r^4R-384l^2r^5R-24\sqrt{3}\,lr^6R-12\sqrt{3}\,l^5rR^2+328l^4r^2R^2+88\sqrt{3}\,l^3r^3R^2-1096l^2r^4R^2-108\sqrt{3}\,lr^5R^2+96\sqrt{3}\,l^3r^2R^3-1312l^2r^3R^3-224\sqrt{3}\,lr^4R^3+3l^4R^4+12\sqrt{3}\,l^3rR^4-546l^2r^2R^4-204\sqrt{3}\,lr^3R^4+3r^4R^4-24l^2rR^5-48\sqrt{3}\,lr^2R^5+24r^3R^5+48r^2R^6\right)\Big\}$$

$$\Big\{X26,\ \text{CIRCUMCENTER OF THE TANGENTIAL TRIANGLE},\ X63,\ \text{ISOGONAL CONJUGATE OF } X(19),$$

$$-\Big(\Big(R\left(-l^6r+3l^4r^3-3l^2r^5+r^7+12l^4r^2R-26l^2r^4R+14r^6R+15l^4rR^2-86l^2r^3R^2+79r^5R^2+l^4R^3-128l^2r^2R^3+231r^4R^3-76l^2rR^4+372r^3R^4-4l^2R^5+315r^2R^5+110rR^6-R^7\right)\Big)\Big/\Big((r+R)^2\,(-l+r+2R)^2\,(l+r+2R)^2\Big)\Big)\Big\}$$

$$\Big\{X26,\ \text{CIRCUMCENTER OF THE TANGENTIAL TRIANGLE},\ X64,\ \text{ISOGONAL CONJUGATE OF } X(20),$$

$$\frac{R^2\left(6l^4-4l^2r^2+6r^4-48l^2rR+48r^3R-80l^2R^2+176r^2R^2+320rR^3+225R^4\right)}{(l-r-2R)^2\,(l+r+2R)^2}\Big\}$$

$$\Big\{X26,\ \text{CIRCUMCENTER OF THE TANGENTIAL TRIANGLE},\ X65,\ \text{ORTHOCENTER OF THE INTOUCH TRIANGLE},$$

$$\left(-2l^4r^3+4l^2r^5-2r^7-3l^4r^2R+22l^2r^4R-19r^6R-l^4rR^2+40l^2r^3R^2-71r^5R^2+28l^2r^2R^3-132r^4R^3+8l^2rR^4-128r^3R^4-64r^2R^5-16rR^6+R^7\right)\Big/\Big(R\,(-l+r+2R)^2\,(l+r+2R)^2\Big)\Big\}$$

$$\Big\{X26,\ \text{CIRCUMCENTER OF THE TANGENTIAL TRIANGLE},\ X66,$$

$$\text{ISOGONAL CONJUGATE OF } X(22),\ -\frac{1}{(l-r-2R)^2\,(l+r+2R)^2\,\left(l^2-r^2-4rR\right)^2}$$

$$\left(l^{10}-9l^8r^2+22l^6r^4-22l^4r^6+9l^2r^8-r^{10}-20l^8rR+128l^6r^3R-216l^4r^5R+128l^2r^7R-20r^9R-5l^8R^2+204l^6r^2R^2-750l^4r^4R^2+716l^2r^6R^2-165r^8R^2+80l^6rR^3-1072l^4r^3R^3+1968l^2r^5R^3-720r^7R^3+4l^6R^4-548l^4r^2R^4+2692l^2r^4R^4-1764r^6R^4-48l^4rR^5+1600l^2r^3R^5-2352r^5R^5-l^4R^6+242l^2r^2R^6-1473r^4R^6+8l^2rR^7-264r^3R^7-16r^2R^8\right)\Big\}$$

{X26, CIRCUMCENTER OF THE TANGENTIAL TRIANGLE, X67, ISOGONAL CONJUGATE OF X(23),

$$-\left(\left(l^{12}-18 l^{10} r^2+63 l^8 r^4-92 l^6 r^6+63 l^4 r^8-18 l^2 r^{10}+r^{12}-24 l^{10} r R+312 l^8 r^3 R-816 l^6 r^5 R+816 l^4 r^7 R-312 l^2 r^9 R+24 r^{11} R-9 l^{10} R^2+441 l^8 r^2 R^2-2670 l^6 r^4 R^2+4302 l^4 r^6 R^2-2313 l^2 r^8 R^2+249 r^{10} R^2+180 l^8 r R^3-3872 l^6 r^3 R^3+11736 l^4 r^5 R^3-9504 l^2 r^7 R^3+1460 r^9 R^3+24 l^8 R^4-2328 l^6 r^2 R^4+17376 l^4 r^4 R^4-23448 l^2 r^6 R^4+5304 r^8 R^4-384 l^6 r R^5+13248 l^4 r^3 R^5-35136 l^2 r^5 R^5+12288 r^7 R^5-18 l^6 R^6+4230 l^4 r^2 R^6-30726 l^2 r^4 R^6+17938 r^6 R^6+216 l^4 r R^7-14064 l^2 r^3 R^7+15576 r^5 R^7+9 l^4 R^8-2610 l^2 r^2 R^8+7017 r^4 R^8-72 l^2 r R^9+1224 r^3 R^9+144 r^2 R^{10}\right)\Big/\left((l-r-2R)^2 (l+r+2R)^2 \left(l^2-r^2-4 r R\right)^2 \left(2 l^2-2 r^2-8 r R-9 R^2\right)\right)\right)\}$$

{X26, CIRCUMCENTER OF THE TANGENTIAL TRIANGLE, X68, PRASOLOV POINT,

$$-\left(\left(l^6-7 l^4 r^2+7 l^2 r^4-r^6-12 l^4 r R+40 l^2 r^3 R-12 r^5 R-7 l^4 R^2+78 l^2 r^2 R^2-55 r^4 R^2+56 l^2 r R^3-120 r^3 R^3+14 l^2 R^4-126 r^2 R^4-56 r R^5-9 R^6\right)\Big/\left((l-r-2R)^2 (l+r+2R)^2\right)\right)\}$$

{X26, CIRCUMCENTER OF THE TANGENTIAL TRIANGLE, X69,

SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE, $\dfrac{1}{(l-r-2R)^2 (l+r+2R)^2 \left(l^2-r^2-4 r R\right)^2}$

$$\left(8 l^8 r^2-24 l^6 r^4+24 l^4 r^6-8 l^2 r^8-96 l^6 r^3 R+192 l^4 r^5 R-96 l^2 r^7 R-l^8 R^2-100 l^6 r^2 R^2+586 l^4 r^4 R^2-484 l^2 r^6 R^2-r^8 R^2+16 l^6 r R^3+784 l^4 r^3 R^3-1296 l^2 r^5 R^3-16 r^7 R^3+4 l^6 R^4+372 l^4 r^2 R^4-1940 l^2 r^4 R^4-100 r^6 R^4-48 l^4 r R^5-1568 l^2 r^3 R^5-304 r^5 R^5+l^4 R^6-578 l^2 r^2 R^6-447 r^4 R^6-8 l^2 r R^7-248 r^3 R^7+16 r^2 R^8\right)\}$$

{X26, CIRCUMCENTER OF THE TANGENTIAL TRIANGLE, X70, ISOGONAL CONJUGATE OF X(26),

$$-\left(\left(l^{14}-11 l^{12} r^2+41 l^{10} r^4-75 l^8 r^6+75 l^6 r^8-41 l^4 r^{10}+11 l^2 r^{12}-r^{14}-28 l^{12} r R+248 l^{10} r^3 R-740 l^8 r^5 R+1040 l^6 r^7 R-740 l^4 r^9 R+248 l^2 r^{11} R-28 r^{13} R-18 l^{12} R^2+512 l^{10} r^2 R^2-2862 l^8 r^4 R^2+6048 l^6 r^6 R^2-5822 l^4 r^8 R^2+2496 l^2 r^{10} R^2-354 r^{12} R^2+432 l^{10} r R^3-5488 l^8 r^3 R^3+19104 l^6 r^5 R^3-26144 l^4 r^7 R^3+14768 l^2 r^9 R^3-2672 r^{11} R^3+132 l^{10} R^4-5444 l^8 r^2 R^4+35480 l^6 r^4 R^4-73688 l^4 r^6 R^4+56932 l^2 r^8 R^4-13412 r^{10} R^4-2640 l^8 r R^5+39168 l^6 r^3 R^5-135008 l^4 r^5 R^5+149760 l^2 r^7 R^5-47184 r^9 R^5-508 l^8 R^6+24748 l^6 r^2 R^6-160992 l^4 r^4 R^6+273580 l^2 r^6 R^6-119420 r^8 R^6+8128 l^6 r R^7-121632 l^4 r^3 R^7+346400 l^2 r^5 R^7-219584 r^7 R^7+1103 l^6 R^8-54857 l^4 r^2 R^8+298121 l^2 r^4 R^8-292559 r^6 R^8-13236 l^4 r R^9+167640 l^2 r^3 R^9-278452 r^5 R^9-1349 l^4 R^{10}+57610 l^2 r^2 R^{10}-184341 r^4 R^{10}+10792 l^2 r R^{11}-81384 r^3 R^{11}+860 l^2 R^{12}-22444 r^2 R^{12}-3440 r R^{13}-225 R^{14}\right)\Big/\left((l-r-2R)^2 (l+r+2R)^2 \left(l^4-2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-6 l^2 R^2+22 r^2 R^2+24 r R^3+7 R^4\right)^2\right)\right)\}$$

{X26, CIRCUMCENTER OF THE TANGENTIAL TRIANGLE, X71, ISOGONAL CONJUGATE OF X(27),

$$\left(R^2\left(6 l^8-18 l^6 r^2+26 l^4 r^4-14 l^2 r^6-80 l^6 r R+208 l^4 r^3 R-160 l^2 r^5 R-88 l^6 R^2+600 l^4 r^2 R^2-736 l^2 r^4 R^2+736 l^4 r R^3-1728 l^2 r^3 R^3+321 l^4 R^4-2142 l^2 r^2 R^4+r^4 R^4-1268 l^2 r R^5+12 r^3 R^5-240 l^2 R^6+52 r^2 R^6+96 r R^7+64 R^8\right)\right)\Big/\left((l-r-2R)^2 (l+r+2R)^2 \left(l^2+r^2+6 r R+8 R^2\right)^2\right)\}$$

{X26, CIRCUMCENTER OF THE TANGENTIAL TRIANGLE, X72,

ISOGONAL CONJUGATE OF X(28), $\left(l^6 r-3 l^4 r^3+3 l^2 r^5-r^7-13 l^4 r^2 R+26 l^2 r^4 R-13 r^6 R-13 l^4 r R^2+84 l^2 r^3 R^2-71 r^5 R^2-l^4 R^3+120 l^2 r^2 R^3-207 r^4 R^3+66 l^2 r R^4-338 r^3 R^4+4 l^2 R^5-292 r^2 R^5-104 r R^6+R^7\right)\Big/\left(R (-l+r+2R)^2 (l+r+2R)^2\right)\}$

{X26, CIRCUMCENTER OF THE TANGENTIAL TRIANGLE, X73, CROSSPOINT OF INCENTER AND CIRCUMCENTER,

$$-\left(\left(R^2\left(14 l^6 r^2-26 l^4 r^4+18 l^2 r^6-6 r^8-4 l^6 r R-132 l^4 r^3 R+180 l^2 r^5 R-76 r^7 R-120 l^4 r^2 R^2+632 l^2 r^4 R^2-416 r^6 R^2+48 l^4 r R^3+880 l^2 r^3 R^3-1216 r^5 R^3-l^4 R^4+286 l^2 r^2 R^4-1921 r^4 R^4-188 l^2 r R^5-1404 r^3 R^5+8 l^2 R^6-124 r^2 R^6+240 r R^7-16 R^8\right)\right)\Big/\left((l-r-2R)^2 (l+r+2R)^2 \left(l^2+r^2-2 r R-4 R^2\right)^2\right)\right)\}$$

{X26, CIRCUMCENTER OF THE TANGENTIAL TRIANGLE,

X74, ISOGONAL CONJUGATE OF EULER INFINITY POINT,

$$\left(R^2\left(3 l^6-5 l^4 r^2+5 l^2 r^4-3 r^6-36 l^4 r R+56 l^2 r^3 R-36 r^5 R-51 l^4 R^2+230 l^2 r^2 R^2-195 r^4 R^2+408 l^2 r R^3-600 r^3 R^3+266 l^2 R^4-1082 r^2 R^4-1064 r R^5-441 R^6\right)\right)\Big/\left((l-r-2R)^2 (l+r+2R)^2 \left(2 l^2-2 r^2-8 r R-9 R^2\right)\right)\}$$

$$\Big\{X26,\ \text{CIRCUMCENTER OF THE TANGENTIAL TRIANGLE},\ X75,$$

$$\text{ISOTOMIC CONJUGATE OF INCENTER},\ -\frac{1}{(1-r-2R)^2\,(1+r+2R)^2\,\left(l^2+r^2+4rR\right)^2}$$

$$R\,\big(8l^8r-40l^6r^3+56l^4r^5-24l^2r^7+l^8R-112l^6r^2R+350l^4r^4R-240l^2r^6R+r^8R-72l^6rR^2+752l^4r^3R^2-952l^2r^5R^2+16r^7R^2-4l^6R^3+604l^4r^2R^3-1852l^2r^4R^3+100r^6R^3+144l^4rR^4-1728l^2r^3R^4+304r^5R^4-l^4R^5-578l^2r^2R^5+447r^4R^5-8l^2rR^6+248r^3R^6-16r^2R^7\big)\Big\}$$

$$\Big\{X26,\ \text{CIRCUMCENTER OF THE TANGENTIAL TRIANGLE},\ X76,\ \text{3rd BROCARD POINT},$$

$$-\Big(\Big(R^2\,\big(l^{12}+34l^{10}r^2-257l^8r^4+444l^6r^6-257l^4r^8+34l^2r^{10}+r^{12}-24l^{10}rR-520l^8r^3R+2576l^6r^5R-2576l^4r^7R+520l^2r^9R+24r^{11}R-4l^{10}R^2-76l^8r^2R^2+4616l^6r^4R^2-9768l^4r^6R^2+3196l^2r^8R^2+244r^{10}R^2+80l^8rR^3+2432l^6r^3R^3-17056l^4r^5R^3+10112l^2r^7R^3+1360r^9R^3-l^8R^4+60l^6r^2R^4-13062l^4r^4R^4+17468l^2r^6R^4+4479r^8R^4+16l^6rR^5-3056l^4r^3R^5+15856l^2r^5R^5+8688r^7R^5-96l^4r^2R^6+6208l^2r^4R^6+9120r^6R^6+256l^2r^3R^7+3840r^5R^7-256r^4R^8\big)\Big)\Big/\Big((1-r-2R)^2\,(1+r+2R)^2\,\left(l^4+2l^2r^2+r^4-8l^2rR+8r^3R+16r^2R^2\right)^2\Big)\Big)\Big\}$$

$$\Big\{X26,\ \text{CIRCUMCENTER OF THE TANGENTIAL TRIANGLE},\ X77,$$

$$\text{ISOGONAL CONJUGATE OF X(33)},\ -\frac{1}{(1-r-2R)^2\,(1+r+2R)^2\,\left(l^2-rR-4R^2\right)^2}$$

$$R\,\big(l^8r-3l^6r^3+3l^4r^5-l^2r^7-8l^6r^2R+18l^4r^4R-10l^2r^6R-15l^6rR^2+50l^4r^3R^2-43l^2r^5R^2+87l^4r^2R^3-112l^2r^4R^3+r^6R^3+88l^4rR^4-224l^2r^3R^4+16r^5R^4-l^4R^5-332l^2r^2R^5+100r^4R^5-238l^2rR^6+304r^3R^6+8l^2R^7+447r^2R^7+248rR^8-16R^9\big)\Big\}$$

$$\Big\{X26,\ \text{CIRCUMCENTER OF THE TANGENTIAL TRIANGLE},\ X78,\ \text{ISOGONAL CONJUGATE OF X(34)},$$

$$-\Big(\Big(R\,\big(-l^6r+3l^4r^3-3l^2r^5+r^7+14l^4r^2R-26l^2r^4R+12r^6R+11l^4rR^2-82l^2r^3R^2+63r^5R^2+l^4R^3-108l^2r^2R^3+179r^4R^3-56l^2rR^4+288r^3R^4-4l^2R^5+251r^2R^5+98rR^6-R^7\big)\Big)\Big/\Big((r-R)^2\,(-l+r+2R)^2\,(l+r+2R)^2\Big)\Big)\Big\}$$

$$\Big\{X26,\ \text{CIRCUMCENTER OF THE TANGENTIAL TRIANGLE},\ X79,\ \text{ISOGONAL CONJUGATE OF X(35)},$$

$$\big(-12l^6r^2+28l^4r^4-20l^2r^6+4r^8-6l^6rR+134l^4r^3R-186l^2r^5R+58r^7R+176l^4r^2R^2-648l^2r^4R^2+344r^6R^2+42l^4rR^3-1012l^2r^3R^3+1066r^5R^3-626l^2r^2R^4+1810r^4R^4-54l^2rR^5+1566r^3R^5+484r^2R^6-60rR^7+9R^8\big)\Big/\Big((-l+r+2R)^2\,(l+r+2R)^2\,(2r+3R)^2\Big)\Big\}$$

$$\Big\{X26,\ \text{CIRCUMCENTER OF THE TANGENTIAL TRIANGLE},\ X80,\ \text{REFLECTION OF INCENTER IN FEUERBACH POINT},$$

$$\big(-2l^6r+10l^4r^3-14l^2r^5+6r^7+28l^4r^2R-88l^2r^4R+60r^6R+18l^4rR^2-192l^2r^3R^2+238r^5R^2-170l^2r^2R^3+474r^4R^3-50l^2rR^4+490r^3R^4+240r^2R^5+42rR^6-R^7\big)\Big/\Big((2r-R)\,(-l+r+2R)^2\,(l+r+2R)^2\Big)\Big\}$$

$$\Big\{X26,\ \text{CIRCUMCENTER OF THE TANGENTIAL TRIANGLE},\ X81,\ \text{CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},$$

$$-\Big(\Big(R\,\big(l^8r-2l^4r^5+r^9+2l^6r^2R-22l^4r^4R+6l^2r^6R+14r^8R-7l^6rR^2-55l^4r^3R^2+47l^2r^5R^2+79r^7R^2-41l^4r^2R^3+146l^2r^4R^3+231r^6R^3+12l^4rR^4+208l^2r^3R^4+372r^5R^4-l^4R^5+118l^2r^2R^5+315r^4R^5+2l^2rR^6+110r^3R^6-r^2R^7\big)\Big)\Big/\Big((1-r-2R)^2\,(1+r+2R)^2\,\left(l^2-r^2-rR\right)^2\Big)\Big)\Big\}$$

$$\Big\{X26,\ \text{CIRCUMCENTER OF THE TANGENTIAL TRIANGLE},\ X82,\ \text{ISOGONAL CONJUGATE OF X(38)},$$

$$-\Big(\Big(R\,\big(l^{12}r-3l^8r^5+3l^4r^9-r^{13}-16l^{10}r^2R-24l^8r^4R+96l^6r^6R-80l^4r^8R+48l^2r^{10}R-24r^{12}R-7l^{10}rR^2+65l^8r^3R^2+406l^6r^5R^2-842l^4r^7R^2+625l^2r^9R^2-247r^{11}R^2+83l^8r^2R^3+320l^6r^4R^3-2758l^4r^6R^3+3264l^2r^8R^3-1421r^{10}R^3+12l^8rR^4-128l^6r^3R^4-3696l^4r^5R^4+8672l^2r^7R^4-4988r^9R^4-l^8R^5-84l^6r^2R^5-1842l^4r^4R^5+12212l^2r^6R^5-10925r^8R^5+18l^6rR^6-254l^4r^3R^6+8590l^2r^5R^6-14626r^7R^6-137l^4r^2R^7+2678l^2r^4R^7-11217r^6R^7+504l^2r^3R^8-4392r^5R^8-784r^4R^9\big)\Big)\Big/\Big((1-r-2R)^2\,(1+r+2R)^2\,\left(l^4-4l^2r^2+3r^4-9l^2rR+19r^3R+28r^2R^2\right)^2\Big)\Big)\Big\}$$

$$\{X26,\ \text{CIRCUMCENTER OF THE TANGENTIAL TRIANGLE},\ X83,\ \text{CEVAPOINT OF CENTROID AND SYMMEDIAN POINT},$$
$$-\Big(\big(4 l^{14}+4 l^{12} r^2-12 l^{10} r^4-12 l^8 r^6+12 l^6 r^8+12 l^4 r^{10}-4 l^2 r^{12}-4 r^{14}-112 l^{12} r R+32 l^{10} r^3 R+$$
$$112 l^8 r^5 R-64 l^6 r^7 R+112 l^4 r^9 R+32 l^2 r^{11} R-112 r^{13} R-27 l^{12} R^2+1322 l^{10} r^2 R^2-1829 l^8 r^4 R^2+$$
$$1708 l^6 r^6 R^2-1381 l^4 r^8 R^2+1578 l^2 r^{10} R^2-1371 r^{12} R^2+648 l^{10} r R^3-9256 l^8 r^3 R^3+$$
$$17488 l^6 r^5 R^3-19024 l^4 r^7 R^3+15656 l^2 r^9 R^3-9608 r^{11} R^3+44 l^{10} R^4-6588 l^8 r^2 R^4+$$
$$45736 l^6 r^4 R^4-80712 l^4 r^6 R^4+74924 l^2 r^8 R^4-42364 r^{10} R^4-880 l^8 r R^5+36736 l^6 r^3 R^5-$$
$$151328 l^4 r^5 R^5+198016 l^2 r^7 R^5-121456 r^9 R^5-25 l^8 R^6+7548 l^6 r^2 R^6-121686 l^4 r^4 R^6+$$
$$291196 l^2 r^6 R^6-225433 r^8 R^6+400 l^6 r R^7-32624 l^4 r^3 R^7+219504 l^2 r^5 R^7-259984 r^7 R^7-$$
$$2400 l^4 r^2 R^8+67648 l^2 r^4 R^8-169312 r^6 R^8+6400 l^2 r^3 R^9-51456 r^5 R^9-6400 r^4 R^{10}\big)\Big/$$
$$\Big((1-r-2R)^2 (1+r+2R)^2 \left(5 l^4-6 l^2 r^2+5 r^4-40 l^2 r R+40 r^3 R+80 r^2 R^2\right)^2\Big)\Big)\}$$

$$\{X26,\ \text{CIRCUMCENTER OF THE TANGENTIAL TRIANGLE},\ X84,$$
$$\text{ISOGONAL CONJUGATE OF } X(40),\ \Big(R\big(2 l^6 r-4 l^4 r^3+2 l^2 r^5-4 l^6 R-6 l^4 r^2 R+$$
$$10 l^2 r^4 R+18 l^4 r R^2+2 l^2 r^3 R^2+4 r^5 R^2+48 l^4 R^3-96 l^2 r^2 R^3+48 r^4 R^3-240 l^2 r R^4+$$
$$216 r^3 R^4-192 l^2 R^5+481 r^2 R^5+544 r R^6+256 R^7\big)\Big)\Big/\Big(r^2 (-1+r+2R)^2 (1+r+2R)^2\Big)\}$$

$$\{X26,\ \text{CIRCUMCENTER OF THE TANGENTIAL TRIANGLE},\ X85,$$
$$\text{ISOTOMIC CONJUGATE OF } X(9),\ -\frac{1}{(1-r-2R)^2 (1+r+2R)^2 \left(l^2+r^2+8 r R+16 R^2\right)^2}$$
$$R\big(24 l^8 r-56 l^6 r^3+40 l^4 r^5-8 l^2 r^7+17 l^8 R-288 l^6 r^2 R+398 l^4 r^4 R-128 l^2 r^6 R+$$
$$r^8 R-432 l^6 r R^2+1512 l^4 r^3 R^2-848 l^2 r^5 R^2+24 r^7 R^2-116 l^6 R^3+2636 l^4 r^2 R^3-$$
$$3020 l^2 r^4 R^3+244 r^6 R^3+1904 l^4 r R^4-6208 l^2 r^3 R^4+1360 r^5 R^4+191 l^4 R^5-7106 l^2 r^2 R^5+$$
$$4479 r^4 R^5-3600 l^2 r R^6+8688 r^3 R^6-32 l^2 R^7+9120 r^2 R^7+3840 r R^8-256 R^9\big)\}$$

$$\{X26,\ \text{CIRCUMCENTER OF THE TANGENTIAL TRIANGLE},\ X86,$$
$$\text{CEVAPOINT OF INCENTER AND CENTROID},\ -\frac{1}{(1-r-2R)^2 (1+r+2R)^2 \left(5 l^2+r^2+4 r R\right)^2}$$
$$\big(4 l^{10}-8 l^6 r^4+4 l^2 r^8-32 l^8 r R-32 l^6 r^3 R+32 l^4 r^5 R+32 l^2 r^7 R-27 l^8 R^2+$$
$$52 l^6 r^2 R^2+154 l^4 r^4 R^2+76 l^2 r^6 R^2+r^8 R^2+112 l^6 r R^3+208 l^4 r^3 R^3-16 l^2 r^5 R^3+$$
$$16 r^7 R^3+44 l^6 R^4-4 l^4 r^2 R^4-268 l^2 r^4 R^4+100 r^6 R^4-16 l^4 r R^5-224 l^2 r^3 R^5+$$
$$304 r^5 R^5-25 l^4 R^6+54 l^2 r^2 R^6+447 r^4 R^6-40 l^2 r R^7+248 r^3 R^7-16 r^2 R^8\big)\}$$

$$\{X26,\ \text{CIRCUMCENTER OF THE TANGENTIAL TRIANGLE},\ X87,\ X(2)\text{-CROSS CONJUGATE OF } X(1),$$
$$\Big(R\big(2 l^{12} r+4 l^{10} r^3-2 l^8 r^5-8 l^6 r^7-2 l^4 r^9+4 l^2 r^{11}+2 r^{13}-74 l^{10} r^2 R-46 l^8 r^4 R+76 l^6 r^6 R+$$
$$20 l^4 r^8 R-2 l^2 r^{10} R+26 r^{12} R-14 l^{10} r R^2+942 l^8 r^3 R^2+36 l^6 r^5 R^2-692 l^4 r^7 R^2+$$
$$298 l^2 r^9 R^2+70 r^{11} R^2+456 l^8 r^2 R^3-5520 l^6 r^4 R^3+864 l^4 r^6 R^3+2192 l^2 r^8 R^3-552 r^{10} R^3+$$
$$24 l^8 r R^4-4832 l^6 r^3 R^4+14352 l^4 r^5 R^4+2336 l^2 r^7 R^4-4584 r^9 R^4+l^8 R^5-668 l^6 r^2 R^5+$$
$$21158 l^4 r^4 R^5-10716 l^2 r^6 R^5-14111 r^8 R^5-40 l^6 r R^6+5448 l^4 r^3 R^6-26360 l^2 r^5 R^6-$$
$$21608 r^7 R^6+464 l^4 r^2 R^7-16224 l^2 r^4 R^7-15664 r^6 R^7-1280 l^2 r^3 R^8-3328 r^5 R^8+1024 r^4 R^9\big)\Big)\Big/$$
$$\Big((1-r-2R)^2 (1+r+2R)^2 \left(l^4+2 l^2 r^2+r^4-20 l^2 r R+12 r^3 R+32 r^2 R^2\right)^2\Big)\}$$

$$\{X26,\ \text{CIRCUMCENTER OF THE TANGENTIAL TRIANGLE},\ X88,$$
$$\text{ISOGONAL CONJUGATE OF } X(44),\ \frac{1}{(1-r-2R)^2 (1+r+2R)^2 \left(l^2+3 r^2-15 r R\right)^2}$$
$$R\big(l^8 r+4 l^6 r^3-38 l^4 r^5+60 l^2 r^7-27 r^9-34 l^6 r^2 R-26 l^4 r^4 R+330 l^2 r^6 R-270 r^8 R-7 l^6 r R^2+$$
$$349 l^4 r^3 R^2+111 l^2 r^5 R^2-837 r^7 R^2+201 l^4 r^2 R^3-1530 l^2 r^4 R^3-351 r^6 R^3+12 l^4 r R^4-$$
$$1584 l^2 r^3 R^4+2484 r^5 R^4+l^4 R^5-270 l^2 r^2 R^5+3789 r^4 R^5-30 l^2 r R^6+1206 r^3 R^6+225 r^2 R^7\big)\}$$

$$\Big\{X26,\ \text{CIRCUMCENTER OF THE TANGENTIAL TRIANGLE},\ X89,$$
$$\text{ISOGONAL CONJUGATE OF } X(45),\ -\frac{1}{(l-r-2R)^2\,(l+r+2R)^2\,\left(2l^2-6r^2+3rR\right)^2}$$
$$R\left(2l^8 r+20 l^6 r^3+8 l^4 r^5-84 l^2 r^7+54 r^9+58 l^6 r^2 R-118 l^4 r^4 R-642 l^2 r^6 R+702 r^8 R-14 l^6 r R^2-370 l^4 r^3 R^2-1698 l^2 r^5 R^2+3618 r^7 R^2-477 l^4 r^2 R^3-1566 l^2 r^4 R^3+9531 r^6 R^3+24 l^4 r R^4+72 l^2 r^3 R^4+13824 r^5 R^4-4 l^4 R^5+972 l^2 r^2 R^5+10872 r^4 R^5-12 l^2 r R^6+3924 r^3 R^6-9 r^2 R^7\right)\Big\}$$

$$\Big\{X26,\ \text{CIRCUMCENTER OF THE TANGENTIAL TRIANGLE},\ X90,\ X(3)\text{-CROSS CONJUGATE OF } X(1),$$
$$\Big(R\left(2l^6 r^3-4 l^4 r^5+2 l^2 r^7-4 l^6 r^2 R-6 l^4 r^4 R+10 l^2 r^6 R+2 l^6 r R^2+14 l^4 r^3 R^2+8 l^2 r^5 R^2+10 l^4 r^2 R^3-24 l^2 r^4 R^3-2 r^6 R^3-18 l^4 r R^4-16 l^2 r^3 R^4-22 r^5 R^4+58 l^2 r^2 R^5-89 r^4 R^5+50 l^2 r R^6-166 r^3 R^6-142 r^2 R^7-44 r R^8+R^9\right)\Big)\Big/\Big((l-r-2R)^2\,(l+r+2R)^2\,\left(r^2+2rR-R^2\right)^2\Big)\Big\}$$

$$\Big\{X26,\ \text{CIRCUMCENTER OF THE TANGENTIAL TRIANGLE},\ X91,\ \text{ISOGONAL CONJUGATE OF } X(47),$$
$$\Big(R\left(l^{10} r-11 l^8 r^3+38 l^6 r^5-50 l^4 r^7+25 l^2 r^9-3 r^{11}-23 l^8 r^2 R+176 l^6 r^4 R-402 l^4 r^6 R+304 l^2 r^8 R-55 r^{10} R-13 l^8 r R^2+318 l^6 r^3 R^2-1312 l^4 r^5 R^2+1570 l^2 r^7 R^2-435 r^9 R^2+244 l^6 r^2 R^3-2228 l^4 r^4 R^3+4476 l^2 r^6 R^3-1948 r^8 R^3+66 l^6 r R^4-2070 l^4 r^3 R^4+7678 l^2 r^5 R^4-5450 r^7 R^4-955 l^4 r^2 R^5+8090 l^2 r^4 R^5-9915 r^6 R^5-166 l^4 r R^6+5060 l^2 r^3 R^6-11830 r^5 R^6+l^4 R^7+1646 l^2 r^2 R^7-9091 r^4 R^7+200 l^2 r R^8-4248 r^3 R^8-4 l^2 R^9-1040 r^2 R^9-88 r R^{10}+4 R^{11}\right)\Big)\Big/$$
$$\Big((l-r-2R)^2\,(l+r+2R)^2\,\left(l^2 r+r^3-l^2 R+3 r^2 R+2 r R^2+2 R^3\right)^2\Big)\Big\}$$

$$\Big\{X26,\ \text{CIRCUMCENTER OF THE TANGENTIAL TRIANGLE},\ X92,$$
$$\text{CEVAPOINT OF INCENTER AND CLAWSON POINT},\ -\frac{1}{(l-r-2R)^2\,(l+r+2R)^2\,\left(l^2+r^2-4R^2\right)^2}$$
$$R\left(12 l^8 r-40 l^6 r^3+48 l^4 r^5-24 l^2 r^7+4 r^9+l^8 R-168 l^6 r^2 R+406 l^4 r^4 R-312 l^2 r^6 R+73 r^8 R-180 l^6 r R^2+1284 l^4 r^3 R^2-1676 l^2 r^5 R^2+572 r^7 R^2-12 l^6 R^3+1804 l^4 r^2 R^3-4756 l^2 r^4 R^3+2516 r^6 R^3+976 l^4 r R^4-7520 l^2 r^3 R^4+6800 r^5 R^4+47 l^4 R^5-6306 l^2 r^2 R^5+11567 r^4 R^5-2240 l^2 r R^6+12096 r^3 R^6-56 l^2 R^7+7112 r^2 R^7+1792 r R^8-16 R^9\right)\Big\}$$

$$\Big\{X26,\ \text{CIRCUMCENTER OF THE TANGENTIAL TRIANGLE},\ X93,\ \text{ISOGONAL CONJUGATE OF } X(49),$$
$$\Big(R^2\left(3 l^{12}-74 l^{10} r^2+253 l^8 r^4-364 l^6 r^6+253 l^4 r^8-74 l^2 r^{10}+3 r^{12}-72 l^{10} r R+1256 l^8 r^3 R-3280 l^6 r^5 R+3280 l^4 r^7 R-1256 l^2 r^9 R+72 r^{11} R-50 l^{10} R^2+1826 l^8 r^2 R^2-11196 l^6 r^4 R^2+17756 l^4 r^6 R^2-9362 l^2 r^8 R^2+770 r^{10} R^2+1000 l^8 r R^3-18112 l^6 r^3 R^3+51888 l^4 r^5 R^3-40128 l^2 r^7 R^3+4840 r^9 R^3+329 l^8 R^4-14204 l^6 r^2 R^4+88118 l^4 r^4 R^4-108668 l^2 r^6 R^4+19849 r^8 R^4-5264 l^6 r R^5+86896 l^4 r^3 R^5-192112 l^2 r^5 R^5+55696 r^7 R^5-1074 l^6 R^6+47158 l^4 r^2 R^6-220950 l^2 r^4 R^6+108946 r^6 R^6+12888 l^4 r R^7-159408 l^2 r^3 R^7+148312 r^5 R^7+1787 l^4 R^8-66798 l^2 r^2 R^8+137563 r^4 R^8-14296 l^2 r R^9+83032 r^3 R^9-1400 l^2 R^{10}+29992 r^2 R^{10}+5600 r R^{11}+441 R^{12}\right)\Big)\Big/$$
$$\Big((l-r-2R)^2\,(l+r+2R)^2\,\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-8 l^2 R^2+24 r^2 R^2+32 r R^3+13 R^4\right)^2\Big)\Big\}$$

$$\Big\{X26,\ \text{CIRCUMCENTER OF THE TANGENTIAL TRIANGLE},$$
$$X94,\ \text{ISOGONAL CONJUGATE OF } X(50),\ \Big(R^2\left(l^2-r^2-4 r R-3 R^2\right)^2$$
$$\Big(5 l^8-60 l^6 r^2+126 l^4 r^4-60 l^2 r^6+5 r^8-80 l^6 r R+560 l^4 r^3 R-560 l^2 r^5 R+80 r^7 R-50 l^6 R^2+942 l^4 r^2 R^2-2062 l^2 r^4 R^2+530 r^6 R^2+600 l^4 r R^3-3728 l^2 r^3 R^3+1880 r^5 R^3+166 l^4 R^4-3380 l^2 r^2 R^4+3846 r^4 R^4-1328 l^2 r R^5+4528 r^3 R^5-198 l^2 R^6+2854 r^2 R^6+792 r R^7+81 R^8\Big)\Big)\Big/$$
$$\Big((l-r-2R)^2\,(l+r+2R)^2\,\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-12 l^2 R^2+28 r^2 R^2+48 r R^3+27 R^4\right)^2\Big)\Big\}$$

$$\{X26,\ \text{CIRCUMCENTER OF THE TANGENTIAL TRIANGLE},\ X95,\ \text{CEVAPOINT OF CENTROID AND CIRCUMCENTER},$$
$$-\Big(\Big(R^2\big(l^{12}+98 l^{10} r^2-257 l^8 r^4+316 l^6 r^6-257 l^4 r^8+98 l^2 r^{10}+r^{12}-24 l^{10} r R-1544 l^8 r^3 R+$$
$$3600 l^6 r^5 R-3600 l^4 r^7 R+1544 l^2 r^9 R+24 r^{11} R-12 l^{10} R^2-1028 l^8 r^2 R^2+$$
$$12376 l^6 r^4 R^2-19576 l^4 r^6 R^2+10292 l^2 r^8 R^2+252 r^{10} R^2+240 l^8 r R^3+13696 l^6 r^3 R^3-$$
$$51168 l^4 r^5 R^3+37760 l^2 r^7 R^3+1520 r^9 R^3+47 l^8 R^4+4252 l^6 r^2 R^4-67238 l^4 r^4 R^4+$$
$$83100 l^2 r^6 R^4+5807 r^8 R^4-752 l^6 r R^5-40944 l^4 r^3 R^5+112112 l^2 r^5 R^5+14576 r^7 R^5-$$
$$56 l^6 R^6-9240 l^4 r^2 R^6+91128 l^2 r^4 R^6+24024 r^6 R^6+672 l^4 r R^7+42304 l^2 r^3 R^7+$$
$$24992 r^5 R^7-16 l^4 R^8+9632 l^2 r^2 R^8+14704 r^4 R^8+128 l^2 r R^9+3456 r^3 R^9-256 r^2 R^{10}\big)\Big)\Big/$$
$$\Big((1-r-2R)^2(1+r+2R)^2\big(l^4+18 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-4 l^2 R^2+20 r^2 R^2+16 r R^3\big)^2\Big)\Big)\}$$

$$\{X26,\ \text{CIRCUMCENTER OF THE TANGENTIAL TRIANGLE},\ X96,\ \text{ISOGONAL CONJUGATE OF } X(52),$$
$$\Big(R^2\big(7 l^{12}-82 l^{10} r^2+249 l^8 r^4-348 l^6 r^6+249 l^4 r^8-82 l^2 r^{10}+7 r^{12}-168 l^{10} r R+$$
$$1480 l^8 r^3 R-3472 l^6 r^5 R+3472 l^4 r^7 R-1480 l^2 r^9 R+168 r^{11} R-108 l^{10} R^2+$$
$$2716 l^8 r^2 R^2-13000 l^6 r^4 R^2+19944 l^4 r^6 R^2-11596 l^2 r^8 R^2+1788 r^{10} R^2+2160 l^8 r R^3-$$
$$23552 l^6 r^3 R^3+61472 l^4 r^5 R^3-51712 l^2 r^7 R^3+11120 r^9 R^3+673 l^8 R^4-22236 l^6 r^2 R^4+$$
$$110982 l^4 r^4 R^4-144604 l^2 r^6 R^4+44833 r^8 R^4-10768 l^6 r R^5+119536 l^4 r^3 R^5-$$
$$263408 l^2 r^5 R^5+122896 r^7 R^5-2160 l^6 R^6+75440 l^4 r^2 R^6-314512 l^2 r^4 R^6+233680 r^6 R^6+$$
$$25920 l^4 r R^7-241536 l^2 r^3 R^7+308800 r^5 R^7+3784 l^4 R^8-114224 l^2 r^2 R^8+279752 r^4 R^8-$$
$$30272 l^2 r R^9+168512 r^3 R^9-3456 l^2 R^{10}+64000 r^2 R^{10}+13824 r R^{11}+1296 R^{12}\big)\Big)\Big/$$
$$\Big((1-r-2R)^2(1+r+2R)^2\big(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2-4 R^4\big)^2\Big)\}$$

$$\{X26,\ \text{CIRCUMCENTER OF THE TANGENTIAL TRIANGLE},\ X97,\ \text{ISOGONAL CONJUGATE OF } X(53),$$
$$\Big(R^2\big(l^{12}-14 l^{10} r^2+63 l^8 r^4-100 l^6 r^6+63 l^4 r^8-14 l^2 r^{10}+r^{12}-24 l^{10} r R+248 l^8 r^3 R-752 l^6 r^5 R+$$
$$752 l^4 r^7 R-248 l^2 r^9 R+24 r^{11} R-17 l^{10} R^2+457 l^8 r^2 R^2-2454 l^6 r^4 R^2+3958 l^4 r^6 R^2-$$
$$1945 l^2 r^8 R^2+257 r^{10} R^2+340 l^8 r R^3-4224 l^6 r^3 R^3+11736 l^4 r^5 R^3-8832 l^2 r^7 R^3+$$
$$1620 r^9 R^3+114 l^8 R^4-4008 l^6 r^2 R^4+21084 l^4 r^4 R^4-25512 l^2 r^6 R^4+6674 r^8 R^4-1824 l^6 r R^5+$$
$$23008 l^4 r^3 R^5-48480 l^2 r^5 R^5+18848 r^7 R^5-378 l^6 R^6+14438 l^4 r^2 R^6-60454 l^2 r^4 R^6+$$
$$37178 r^6 R^6+4536 l^4 r R^7-47696 l^2 r^3 R^7+51128 r^5 R^7+633 l^4 R^8-21938 l^2 r^2 R^8+$$
$$47961 r^4 R^8-5064 l^2 r R^9+29256 r^3 R^9-488 l^2 R^{10}+10616 r^2 R^{10}+1952 r R^{11}+144 R^{12}\big)\Big)\Big/$$
$$\Big((1-r-2R)^2(1+r+2R)^2\big(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-7 l^2 R^2+23 r^2 R^2+28 r R^3+12 R^4\big)^2\Big)\}$$

$$\{X26,\ \text{CIRCUMCENTER OF THE TANGENTIAL TRIANGLE},\ X98,\ \text{TarryPoint},$$
$$\Big(R^2\big(3 l^8-16 l^6 r^2+26 l^4 r^4-16 l^2 r^6+3 r^8-48 l^6 r R+176 l^4 r^3 R-176 l^2 r^5 R+$$
$$48 r^7 R-24 l^6 R^2+376 l^4 r^2 R^2-728 l^2 r^4 R^2+312 r^6 R^2+288 l^4 r R^3-1408 l^2 r^3 R^3+$$
$$1056 r^5 R^3+49 l^4 R^4-1262 l^2 r^2 R^4+1969 r^4 R^4-392 l^2 r R^5+1928 r^3 R^5+784 r^2 R^6\big)\Big)\Big/$$
$$\Big((1-r-2R)^2(1+r+2R)^2\big(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\big)\Big)\}$$

$$\{X26,\ \text{CIRCUMCENTER OF THE TANGENTIAL TRIANGLE},\ X99,\ \text{STEINER POINT},$$
$$-\Big(\Big(R^2\big(l^8+16 l^6 r^2-34 l^4 r^4+16 l^2 r^6+r^8-16 l^6 r R-112 l^4 r^3 R+112 l^2 r^5 R+$$
$$16 r^7 R-4 l^6 R^2-116 l^4 r^2 R^2+340 l^2 r^4 R^2+100 r^6 R^2+48 l^4 r R^3+544 l^2 r^3 R^3+$$
$$304 r^5 R^3-l^4 R^4+398 l^2 r^2 R^4+447 r^4 R^4+8 l^2 r R^5+248 r^3 R^5-16 r^2 R^6\big)\Big)\Big/$$
$$\Big((1-r-2R)^2(1+r+2R)^2\big(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\big)\Big)\Big)\}$$

$$\{X26,\ \text{CIRCUMCENTER OF THE TANGENTIAL TRIANGLE},\ X100,\ \text{ANTICOMPLEMENT OF FEUERBACH POINT},$$
$$\frac{R^2\big(2 l^4 r-4 l^2 r^3+2 r^5+l^4 R-22 l^2 r^2 R+21 r^4 R-32 l^2 r R^2+80 r^3 R^2-4 l^2 R^3+132 r^2 R^3+82 r R^4-R^5\big)}{(2r-R)(-l+r+2R)^2(l+r+2R)^2}\}$$

$$\{X27,\ \text{CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER},\ X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),$$
$$-\frac{(l-r-2R)^2(l+r+2R)^2\big(l^2+r^2+2rR\big)^2\big(2l^2-2r^2-8rR-9R^2\big)}{\big(l^2-3r^2-12rR-12R^2\big)^2\big(l^2-r^2-5rR-6R^2\big)^2}\}$$

$$\{X27,\ \text{CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER},\ X29,\ \text{CEVAPOINT OF INCENTER AND ORTHOCENTER},$$
$$-\frac{16(l-r-2R)^2(l+r+2R)^2\big(l^2+r^2+2rR\big)^2\big(2l^2-2r^2-8rR-9R^2\big)}{\big(l^2-3r^2-12rR-12R^2\big)^2\big(3l^2-r^2-8rR-12R^2\big)^2}\}$$

$$\{X27,\ \text{CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER},\ X30,\ \text{EulerInfinityPoint},\ \infty\}$$

$$\Big\{X27,\ \text{CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER},\ X31,\ \text{SecondPowerPoint},\ -\frac{1}{(l^2-3r^2-6rR)^2\,(l^2-3r^2-12rR-12R^2)^2}\big(3l^{10}-13l^8r^2-2l^6r^4+38l^4r^6+15l^2r^8-9r^{10}-40l^8rR+24l^6r^3R+280l^4r^5R+72l^2r^7R-144r^9R-8l^8R^2+80l^6r^2R^2+720l^4r^4R^2-48l^2r^6R^2-936r^8R^2+32l^6rR^3+800l^4r^3R^3-864l^2r^5R^3-3168r^7R^3-16l^6R^4+464l^4r^2R^4-1776l^2r^4R^4-5904r^6R^4+256l^4rR^5-1152l^2r^3R^5-5760r^5R^5-2304r^4R^6\big)\Big\}$$

$$\{X27,\ \text{CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER},\ X32,\ \text{ThirdPowerPoint},\ -\big((3l^{14}-29l^{12}r^2+51l^{10}r^4+107l^8r^6-63l^6r^8-79l^4r^{10}+9l^2r^{12}+r^{14}-52l^{12}rR+216l^{10}r^3R+516l^8r^5R-752l^6r^7R-876l^4r^9R+152l^2r^{11}R+28r^{13}R-8l^{12}R^2+300l^{10}r^2R^2+600l^8r^4R^2-3192l^6r^6R^2-3784l^4r^8R^2+1068l^2r^{10}R^2+344r^{12}R^2+64l^{10}rR^3+128l^8r^3R^3-5824l^6r^5R^3-8320l^4r^7R^3+4096l^2r^9R^3+2432r^{11}R^3-16l^{10}R^4+304l^8r^2R^4-4352l^6r^4R^4-11072l^4r^6R^4+9616l^2r^8R^4+10896r^{10}R^4+320l^8rR^5-1664l^6r^3R^5-11648l^4r^5R^5+15232l^2r^7R^5+32064r^9R^5-832l^6r^2R^6-9856l^4r^4R^6+18112l^2r^6R^6+61952r^8R^6-3584l^4r^3R^7+15872l^2r^5R^7+75776r^7R^7+7168l^2r^4R^8+53248r^6R^8+16384r^5R^9)\big/\big((l^2-2lr-r^2-4rR)^2\,(l^2+2lr-r^2-4rR)^2\,(l^2-3r^2-12rR-12R^2)^2\big)\big)\}$$

$$\{X27,\ \text{CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER},\ X33,\ \text{PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES},\ -\big((l-r-2R)^2\,(l+r+2R)^2\,(3l^6+l^4r^2-7l^2r^4-5r^6+20l^4rR-64l^2r^3R-52r^5R-8l^4R^2-168l^2r^2R^2-176r^4R^2-208l^2rR^3-176r^3R^3-16l^2R^4+128r^2R^4+256rR^5)\big)\big/\big((l^2-3r^2-12rR-12R^2)^2\,(l^2-r^2-2rR-4R^2)^2\big)\big)\}$$

$$\{X27,\ \text{CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER},\ X34,\ X(4)\text{-BETH CONJUGATE OF } X(4),\ -\big((l-r-2R)^2\,(l+r+2R)^2\,(3l^6+l^4r^2-7l^2r^4-5r^6-20l^4rR-48l^2r^3R+4r^5R-8l^4R^2-56l^2r^2R^2+128r^4R^2-48l^2rR^3+368r^3R^3-16l^2R^4+448r^2R^4+256rR^5)\big)\big/\big((l^2-3r^2-12rR-12R^2)^2\,(l^2-r^2-6rR-4R^2)^2\big)\big)\}$$

$$\{X27,\ \text{CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER},\ X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),\ \big(-8l^6r^2-8l^4r^4+8l^2r^6+8r^8-10l^6rR-38l^4r^3R+82l^2r^5R+110r^7R-3l^6R^2-41l^4r^2R^2+327l^2r^4R^2+621r^6R^2+648l^2r^3R^3+1832r^5R^3+8l^4R^4+656l^2r^2R^4+2936r^4R^4+288l^2rR^5+2304r^3R^5+16l^2R^6+464r^2R^6-256rR^7\big)\big/\big((2r+R)^2\,(-l^2+3r^2+12rR+12R^2)^2\big)\}$$

$$\{X27,\ \text{CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER},\ X36,\ \text{INVERSE-IN-CIRCUMCIRCLE OF INCENTER},\ \big(-4l^6r-4l^4r^3+4l^2r^5+4r^7+3l^6R-15l^4r^2R+25l^2r^4R+43r^6R-16l^4rR^2+56l^2r^3R^2+200r^5R^2-8l^4R^3+48l^2r^2R^3+520r^4R^3+800r^3R^4-16l^2R^5+688r^2R^5+256rR^6\big)\big/\big((2r-R)\,(-l^2+3r^2+12rR+12R^2)^2\big)\}$$

$$\Big\{X27,\ \text{CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER},\ X37,\ \text{CrosspointOfIncenterAndCentroid},\ -\frac{1}{(l^2+r^2+4rR)^2\,(l^2-3r^2-12rR-12R^2)^2}\big(3l^{10}+5l^8r^2-2l^6r^4-6l^4r^6-l^2r^8+r^{10}+28l^8rR-48l^6r^3R-32l^4r^5R-64l^2r^7R+20r^9R-8l^8R^2-180l^6r^2R^2-72l^4r^4R^2-564l^2r^6R^2+168r^8R^2-256l^6rR^3-32l^4r^3R^3-2080l^2r^5R^3+768r^7R^3-16l^6R^4+208l^4r^2R^4-3792l^2r^4R^4+2064r^6R^4+320l^4rR^5-3328l^2r^3R^5+3264r^5R^5-1088l^2r^2R^6+2816r^4R^6+1024r^3R^7\big)\Big\}$$

$$\Big\{\text{X27, CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER, X38, CROSSPOINT OF X(1) AND X(75)}, -\frac{1}{\left(l^2+r^2-2\,r\,R\right)^2\left(l^2-3\,r^2-12\,r\,R-12\,R^2\right)^2}\left(3\,l^{10}+3\,l^8\,r^2-2\,l^6\,r^4+6\,l^4\,r^6+15\,l^2\,r^8+7\,r^{10}-8\,l^8\,r\,R-72\,l^6\,r^3\,R+184\,l^4\,r^5\,R-88\,l^2\,r^7\,R+176\,r^9\,R-8\,l^8\,R^2-208\,l^6\,r^2\,R^2+1104\,l^4\,r^4\,R^2-1808\,l^2\,r^6\,R^2+1752\,r^8\,R^2-160\,l^6\,r\,R^3+2464\,l^4\,r^3\,R^3-8224\,l^2\,r^5\,R^3+9120\,r^7\,R^3-16\,l^6\,R^4+2128\,l^4\,r^2\,R^4-16\,496\,l^2\,r^4\,R^4+27\,120\,r^6\,R^4+512\,l^4\,r\,R^5-15\,232\,l^2\,r^3\,R^5+46\,464\,r^5\,R^5-5120\,l^2\,r^2\,R^6+42\,752\,r^4\,R^6+16\,384\,r^3\,R^7\right)\Big\}$$

$$\Big\{\text{X27, CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER, X39, BrocardMidpoint}, -\Big(\Big(3\,l^{14}+11\,l^{12}\,r^2+11\,l^{10}\,r^4-5\,l^8\,r^6-15\,l^6\,r^8-7\,l^4\,r^{10}+l^2\,r^{12}+r^{14}-52\,l^{12}\,r\,R-72\,l^{10}\,r^3\,R+4\,l^8\,r^5\,R-48\,l^6\,r^7\,R-108\,l^4\,r^9\,R-8\,l^2\,r^{11}\,R+28\,r^{13}\,R-8\,l^{12}\,R^2+300\,l^{10}\,r^2\,R^2-232\,l^8\,r^4\,R^2+200\,l^6\,r^6\,R^2-904\,l^4\,r^8\,R^2-276\,l^2\,r^{10}\,R^2+344\,r^{12}\,R^2+64\,l^{10}\,r\,R^3-1152\,l^8\,r^3\,R^3+1856\,l^6\,r^5\,R^3-4480\,l^4\,r^7\,R^3-2048\,l^2\,r^9\,R^3+2432\,r^{11}\,R^3-16\,l^{10}\,R^4-336\,l^8\,r^2\,R^4+4480\,l^6\,r^4\,R^4-12\,992\,l^4\,r^6\,R^4-6896\,l^2\,r^8\,R^4+10\,896\,r^{10}\,R^4+320\,l^8\,r\,R^5+2944\,l^6\,r^3\,R^5-20\,864\,l^4\,r^5\,R^5-10\,880\,l^2\,r^7\,R^5+32\,064\,r^9\,R^5-832\,l^6\,r^2\,R^6-16\,000\,l^4\,r^4\,R^6-4416\,l^2\,r^6\,R^6+61\,952\,r^8\,R^6-3584\,l^4\,r^3\,R^7+7680\,l^2\,r^5\,R^7+75\,776\,r^7\,R^7+7168\,l^2\,r^4\,R^8+53\,248\,r^6\,R^8+16\,384\,r^5\,R^9\Big)\Big/\Big(\left(l^2-3\,r^2-12\,r\,R-12\,R^2\right)^2\left(l^4+2\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R+16\,r^2\,R^2\right)^2\Big)\Big)\Big\}$$

$$\Big\{\text{X27, CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER, X40, BEVAN POINT}, -\Big(\Big(l^6+3\,l^4\,r^2+3\,l^2\,r^4+r^6+20\,l^4\,r\,R+12\,r^5\,R+20\,l^4\,R^2-40\,l^2\,r^2\,R^2+20\,r^4\,R^2-64\,l^2\,r\,R^3-160\,r^3\,R^3-16\,l^2\,R^4-720\,r^2\,R^4-1088\,r\,R^5-576\,R^6\Big)\Big/\left(l^2-3\,r^2-12\,r\,R-12\,R^2\right)^2\Big)\Big\}$$

$$\Big\{\text{X27, CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER, X41, X(6)-CEVA CONJUGATE OF X(31)}, -\Big(\Big(21\,l^{10}\,r^2+5\,l^8\,r^4-46\,l^6\,r^6-22\,l^4\,r^8+9\,l^2\,r^{10}+r^{12}+32\,l^{10}\,r\,R-60\,l^8\,r^3\,R-376\,l^6\,r^5\,R-160\,l^4\,r^7\,R+152\,l^2\,r^9\,R+28\,r^{11}\,R+12\,l^{10}\,R^2-328\,l^8\,r^2\,R^2-1016\,l^6\,r^4\,R^2-208\,l^4\,r^6\,R^2+1068\,l^2\,r^8\,R^2+344\,r^{10}\,R^2-256\,l^8\,r\,R^3-768\,l^6\,r^3\,R^3+896\,l^4\,r^5\,R^3+4096\,l^2\,r^7\,R^3+2432\,r^9\,R^3-32\,l^8\,R^4+496\,l^6\,r^2\,R^4+2512\,l^4\,r^4\,R^4+9616\,l^2\,r^6\,R^4+10\,896\,r^8\,R^4+128\,l^6\,r\,R^5+1216\,l^4\,r^3\,R^5+15\,232\,l^2\,r^5\,R^5+32\,064\,r^7\,R^5-64\,l^6\,R^6-640\,l^4\,r^2\,R^6+18\,112\,l^2\,r^4\,R^6+61\,952\,r^6\,R^6+512\,l^4\,r\,R^7+15\,872\,l^2\,r^3\,R^7+75\,776\,r^5\,R^7+7168\,l^2\,r^2\,R^8+53\,248\,r^4\,R^8+16\,384\,r^3\,R^9\Big)\Big/\Big(\left(l^2-3\,r^2-12\,r\,R-12\,R^2\right)^2\left(3\,l^2\,r-r^3+2\,l^2\,R-8\,r^2\,R-16\,r\,R^2\right)^2\Big)\Big)\Big\}$$

$$\Big\{\text{X27, CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER, X42, CROSSPOINT OF INCENTER AND SYMMEDIAN POINT}, -\frac{1}{\left(l^2+r^2-2\,r\,R\right)^2\left(l^2-3\,r^2-12\,r\,R-12\,R^2\right)^2}\left(3\,l^{10}+7\,l^8\,r^2-2\,l^6\,r^4-18\,l^4\,r^6-17\,l^2\,r^8-5\,r^{10}-16\,l^8\,r\,R-48\,l^6\,r^3\,R-112\,l^4\,r^5\,R-144\,l^2\,r^7\,R-64\,r^9\,R-8\,l^8\,R^2-32\,l^6\,r^2\,R^2-368\,l^4\,r^4\,R^2-352\,l^2\,r^6\,R^2-264\,r^8\,R^2-32\,l^6\,r\,R^3-608\,l^4\,r^3\,R^3+96\,l^2\,r^5\,R^3-96\,r^7\,R^3-16\,l^6\,R^4-368\,l^4\,r^2\,R^4+1808\,l^2\,r^4\,R^4+2352\,r^6\,R^4+128\,l^4\,r\,R^5+3072\,l^2\,r^3\,R^5+7296\,r^5\,R^5+1792\,l^2\,r^2\,R^6+8960\,r^4\,R^6+4096\,r^3\,R^7\right)\Big\}$$

$$\Big\{\text{X27, CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER, X43, X(6)-CEVA CONJUGATE OF X(1)}, -\frac{1}{\left(l^2+r^2-8\,r\,R\right)^2\left(l^2-3\,r^2-12\,r\,R-12\,R^2\right)^2}\left(3\,l^{10}+7\,l^8\,r^2-2\,l^6\,r^4-18\,l^4\,r^6-17\,l^2\,r^8-5\,r^{10}-56\,l^8\,r\,R-72\,l^6\,r^3\,R-40\,l^4\,r^5\,R-88\,l^2\,r^7\,R-64\,r^9\,R-8\,l^8\,R^2+304\,l^6\,r^2\,R^2-272\,l^4\,r^4\,R^2+176\,l^2\,r^6\,R^2-264\,r^8\,R^2+128\,l^6\,r\,R^3-992\,l^4\,r^3\,R^3+1856\,l^2\,r^5\,R^3-96\,r^7\,R^3-16\,l^6\,R^4-1136\,l^4\,r^2\,R^4+4304\,l^2\,r^4\,R^4+2352\,r^6\,R^4+128\,l^4\,r\,R^5+4352\,l^2\,r^3\,R^5+7296\,r^5\,R^5+1792\,l^2\,r^2\,R^6+8960\,r^4\,R^6+4096\,r^3\,R^7\right)\Big\}$$

$$\Big\{\text{X27, CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER, X44,}$$
$$\text{X(6)-LINE CONJUGATE OF X(1)}, -\frac{1}{\left(l^2-3r^2-12rR\right)^2\left(l^2-3r^2-12rR-12R^2\right)^2}$$
$$\Big(3l^{10}-11l^8r^2-10l^6r^4+34l^4r^6+39l^2r^8+9r^{10}-84l^8rR+112l^6r^3R+336l^4r^5R+192l^2r^7R+180r^9R-8l^8R^2+684l^6r^2R^2+440l^4r^4R^2-84l^2r^6R^2+1512r^8R^2+256l^6rR^3-1312l^4r^3R^3-1824l^2r^5R^3+6912r^7R^3-16l^6R^4-2352l^4r^2R^4-2640l^2r^4R^4+18576r^6R^4+64l^4rR^5+768l^2r^3R^5+29376r^5R^5+2496l^2r^2R^6+25344r^4R^6+9216r^3R^7\Big)\Big\}$$

$$\Big\{\text{X27, CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER, X45,}$$
$$\text{X(9)-BETH CONJUGATE OF X(1)}, -\frac{1}{\left(l^2+3r^2+12rR\right)^2\left(l^2-3r^2-12rR-12R^2\right)^2}$$
$$\Big(3l^{10}+13l^8r^2+14l^6r^4+10l^4r^6+15l^2r^8+9r^{10}+84l^8rR+64l^6r^3R+120l^4r^5R-192l^2r^7R+180r^9R-8l^8R^2+108l^6r^2R^2-136l^4r^4R^2-2580l^2r^6R^2+1512r^8R^2-512l^6rR^3-1696l^4r^3R^3-10272l^2r^5R^3+6912r^7R^3-16l^6R^4-1968l^4r^2R^4-18384l^2r^4R^4+18576r^6R^4+448l^4rR^5-14592l^2r^3R^5+29376r^5R^5-3648l^2r^2R^6+25344r^4R^6+9216r^3R^7\Big)\Big\}$$

$$\Big\{\text{X27, CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER, X46, X(4)-CEVA CONJUGATE OF X(1)},$$
$$-\Big(\Big(l^6r^2+3l^4r^4+3l^2r^6+r^8-4l^6rR+16l^4r^3R+4l^2r^5R+16r^7R+3l^6R^2+9l^4r^2R^2-39l^2r^4R^2+99r^6R^2-16l^4rR^3-104l^2r^3R^3+328r^5R^3-8l^4R^4-64l^2r^2R^4+664r^4R^4+864r^3R^5-16l^2R^6+688r^2R^6+256rR^7\Big)\Big/\Big((r-R)^2\left(-l^2+3r^2+12rR+12R^2\right)^2\Big)\Big)\Big\}$$

$$\Big\{\text{X27, CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER, X47,}$$
$$\text{X(110)-BETH CONJUGATE OF X(34)}, -\frac{1}{\left(l^2-3r^2-12rR-12R^2\right)^2\left(l^2-3r^2-6rR-2R^2\right)^2}$$
$$\Big(3l^{10}-13l^8r^2-2l^6r^4+38l^4r^6+15l^2r^8-9r^{10}-40l^8rR+24l^6r^3R+280l^4r^5R+72l^2r^7R-144r^9R-20l^8R^2+104l^6r^2R^2+768l^4r^4R^2-72l^2r^6R^2-972r^8R^2+112l^6rR^3+1040l^4r^3R^3-1136l^2r^5R^3-3600r^7R^3+28l^6R^4+852l^4r^2R^4-3084l^2r^4R^4-7940r^6R^4+448l^4rR^5-4256l^2r^3R^5-10464r^5R^5+32l^4R^6-3520l^2r^2R^6-7456r^4R^6-1536l^2rR^7-1408r^3R^7-64l^2R^8+1728r^2R^8+1024rR^9\Big)\Big\}$$

$$\Big\{\text{X27, CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER, X48,}$$
$$\text{CROSSPOINT OF X(1) AND X(63)}, -\frac{1}{\left(l^2-3r^2-12rR-12R^2\right)^2\left(3l^2-r^2-6rR-8R^2\right)^2}$$
$$\Big(21l^{10}+5l^8r^2-46l^6r^4-22l^4r^6+9l^2r^8+r^{10}-48l^8rR-280l^6r^3R-136l^4r^5R+120l^2r^7R+24r^9R-124l^8R^2-520l^6r^2R^2-224l^4r^4R^2+680l^2r^6R^2+252r^8R^2-176l^6rR^3+144l^4r^3R^3+2096l^2r^5R^3+1520r^7R^3+224l^6R^4+624l^4r^2R^4+3712l^2r^4R^4+5808r^6R^4+256l^4rR^5+3584l^2r^3R^5+14592r^5R^5-192l^4R^6+1408l^2r^2R^6+24128r^4R^6-256l^2rR^7+25344r^3R^7-256l^2R^8+15360r^2R^8+4096rR^9\Big)\Big\}$$

$$\Big\{\text{X27, CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER, X49,}$$
$$\text{CENTER OF SINE-TRIPLE-ANGLE CIRCLE}, -\frac{1}{\left(l^2-3r^2-12rR-12R^2\right)^2\left(2l^2-2r^2-8rR-7R^2\right)^2}$$
$$\Big(10l^{10}-10l^8r^2-28l^6r^4+12l^4r^6+18l^2r^8-2r^{10}-72l^8rR-128l^6r^3R+176l^4r^5R+192l^2r^7R-40r^9R-82l^8R^2-116l^6r^2R^2+880l^4r^4R^2+820l^2r^6R^2-350r^8R^2+144l^6rR^3+2048l^4r^3R^3+1680l^2r^5R^3-1760r^7R^3+188l^6R^4+2308l^4r^2R^4+1252l^2r^4R^4-5604r^6R^4+1040l^4rR^5-1248l^2r^3R^5-11696r^5R^5+7l^4R^6-3138l^2r^2R^6-15945r^4R^6-2056l^2rR^7-13640r^3R^7-328l^2R^8-6680r^2R^8-1568rR^9-144R^{10}\Big)\Big\}$$

$$\{X27,\ \text{CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER},\ X50,\ X(74)\text{-CEVA CONJUGATE OF } X(184),$$
$$-\Big(\big(3 l^{14} - 29 l^{12} r^2 + 51 l^{10} r^4 + 107 l^8 r^6 - 63 l^6 r^8 - 79 l^4 r^{10} + 9 l^2 r^{12} + r^{14} - 52 l^{12} r R + 216 l^{10} r^3 R + 516 l^8 r^5 R - 752 l^6 r^7 R - 876 l^4 r^9 R + 152 l^2 r^{11} R + 28 r^{13} R - 26 l^{12} R^2 + 396 l^{10} r^2 R^2 + 642 l^8 r^4 R^2 - 3432 l^6 r^6 R^2 - 3910 l^4 r^8 R^2 + 1116 l^2 r^{10} R^2 + 350 r^{12} R^2 + 304 l^{10} r R^3 - 112 l^8 r^3 R^3 - 7456 l^6 r^5 R^3 - 8992 l^4 r^7 R^3 + 4720 l^2 r^9 R^3 + 2576 r^{11} R^3 + 59 l^{10} R^4 - 515 l^8 r^2 R^4 - 7874 l^6 r^4 R^4 - 11750 l^4 r^6 R^4 + 13063 l^2 r^8 R^4 + 12393 r^{10} R^4 - 124 l^8 r R^5 - 4160 l^6 r^3 R^5 - 10712 l^4 r^5 R^5 + 26272 l^2 r^7 R^5 + 40884 r^9 R^5 + 24 l^8 R^6 - 2260 l^6 r^2 R^6 - 10120 l^4 r^4 R^6 + 42412 l^2 r^6 R^6 + 94280 r^8 R^6 - 1536 l^6 r R^7 - 7328 l^4 r^3 R^7 + 56288 l^2 r^5 R^7 + 151808 r^7 R^7 - 144 l^6 R^8 - 432 l^4 r^2 R^8 + 55216 l^2 r^4 R^8 + 167056 r^6 R^8 + 1728 l^4 r R^9 + 33024 l^2 r^3 R^9 + 119488 r^5 R^9 + 8640 l^2 r^2 R^{10} + 49920 r^4 R^{10} + 9216 r^3 R^{11}\big) \Big/ \big((l^2 - 3 r^2 - 12 r R - 12 R^2)^2 (l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 3 l^2 R^2 + 19 r^2 R^2 + 12 r R^3)^2\big)\Big)\}$$

$$\{X27,\ \text{CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER},\ X51,\ \text{CENTROID OF ORTHIC TRIANGLE},$$
$$\big(-7 l^8 - 12 l^6 r^2 + 134 l^4 r^4 - 108 l^2 r^6 + 9 r^8 + 128 l^6 r R + 400 l^4 r^3 R - 864 l^2 r^5 R + 144 r^7 R - 8 l^6 R^2 - 8 l^4 r^2 R^2 - 2520 l^2 r^4 R^2 + 936 r^6 R^2 - 544 l^4 r R^3 - 2880 l^2 r^3 R^3 + 3168 r^5 R^3 + 144 l^4 R^4 - 288 l^2 r^2 R^4 + 5904 r^4 R^4 + 1152 l^2 r R^5 + 5760 r^3 R^5 + 2304 r^2 R^6\big) \Big/ \big(36 R^2 (-l^2 + 3 r^2 + 12 r R + 12 R^2)^2\big)\}$$

$$\{X27,\ \text{CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER},$$
$$X52,\ \text{ORTHOCENTER OF ORTHIC TRIANGLE},\ \frac{1}{4 R^2 (-l^2 + 3 r^2 + 12 r R + 12 R^2)^2}$$
$$\big(-l^8 - 20 l^6 r^2 + 106 l^4 r^4 - 116 l^2 r^6 + 15 r^8 + 496 l^4 r^3 R - 1056 l^2 r^5 R + 240 r^7 R - 4 l^6 R^2 + 732 l^4 r^2 R^2 - 3804 l^2 r^4 R^2 + 1604 r^6 R^2 + 368 l^4 r R^3 - 6752 l^2 r^3 R^3 + 5808 r^5 R^3 + 116 l^4 R^4 - 5976 l^2 r^2 R^4 + 12340 r^4 R^4 - 2400 l^2 r R^5 + 15520 r^3 R^5 - 416 l^2 R^6 + 11040 r^2 R^6 + 3968 r R^7 + 576 R^8\big)\}$$

$$\{X27,\ \text{CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER},\ X53,\ \text{SYMMEDIAN POINT OF ORTHIC TRIANGLE},$$
$$-\Big(\big((l - r - 2 R)^2 (l + r + 2 R)^2 \big(3 l^{10} - 43 l^8 r^2 + 158 l^6 r^4 - 54 l^4 r^6 - l^2 r^8 + r^{10} - 28 l^8 r R + 256 l^6 r^3 R - 280 l^4 r^5 R - 32 l^2 r^7 R + 20 r^9 R - 8 l^8 R^2 + 172 l^6 r^2 R^2 - 584 l^4 r^4 R^2 - 148 l^2 r^6 R^2 + 168 r^8 R^2 - 416 l^4 r^3 R^3 - 32 l^2 r^5 R^3 + 768 r^7 R^3 - 16 l^6 R^4 + 80 l^4 r^2 R^4 + 944 l^2 r^4 R^4 + 2064 r^6 R^4 + 192 l^4 r R^5 + 1792 l^2 r^3 R^5 + 3264 r^5 R^5 + 960 l^2 r^2 R^6 + 2816 r^4 R^6 + 1024 r^3 R^7\big)\big) \Big/ \big((l^2 - 3 r^2 - 12 r R - 12 R^2)^2 (l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 4 l^2 R^2 + 20 r^2 R^2 + 16 r R^3)^2\big)\Big)\}$$

$$\{X27,\ \text{CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER},\ X54,$$
$$\text{KosnitaPoint},\ -\frac{1}{(l^2 - 3 r^2 - 12 r R - 12 R^2)^2 (2 l^2 - 2 r^2 - 8 r R - 5 R^2)^2}$$
$$\big(10 l^{10} - 10 l^8 r^2 - 28 l^6 r^4 + 12 l^4 r^6 + 18 l^2 r^8 - 2 r^{10} - 72 l^8 r R - 128 l^6 r^3 R + 176 l^4 r^5 R + 192 l^2 r^7 R - 40 r^9 R - 55 l^8 R^2 - 152 l^6 r^2 R^2 + 850 l^4 r^4 R^2 + 848 l^2 r^6 R^2 - 355 r^8 R^2 - 48 l^6 r R^3 + 1968 l^4 r^3 R^3 + 1968 l^2 r^5 R^3 - 1840 r^7 R^3 - 4 l^6 R^4 + 2436 l^4 r^2 R^4 + 2436 l^2 r^4 R^4 - 6148 r^6 R^4 + 1552 l^4 r R^5 + 1184 l^2 r^3 R^5 - 13744 r^5 R^5 + 332 l^4 R^6 - 600 l^2 r^2 R^6 - 20596 r^4 R^6 - 864 l^2 r R^7 - 20128 r^3 R^7 - 160 l^2 R^8 - 12064 r^2 R^8 - 3968 r R^9 - 576 R^{10}\big)\}$$

$$\{X27,\ \text{CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER},$$
$$X55,\ \text{INSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),$$
$$\big(-2 l^6 r^2 - 2 l^4 r^4 + 2 l^2 r^6 + 2 r^8 - 5 l^6 r R - 11 l^4 r^3 R + 25 l^2 r^5 R + 31 r^7 R - 3 l^6 R^2 - 14 l^4 r^2 R^2 + 117 l^2 r^4 R^2 + 192 r^6 R^2 + 280 l^2 r^3 R^3 + 600 r^5 R^3 + 8 l^4 R^4 + 360 l^2 r^2 R^4 + 960 r^4 R^4 + 208 l^2 r R^5 + 624 r^3 R^5 + 16 l^2 R^6 - 128 r^2 R^6 - 256 r R^7\big) \Big/ \big((r + R)^2 (-l^2 + 3 r^2 + 12 r R + 12 R^2)^2\big)\}$$

$$\{X27,\ \text{CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER},$$
$$X56,\ \text{EXSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),$$
$$\big(-2 l^6 r^2 - 2 l^4 r^4 + 2 l^2 r^6 + 2 r^8 + 5 l^6 r R - 5 l^4 r^3 R + 7 l^2 r^5 R + 17 r^7 R - 3 l^6 R^2 - 2 l^4 r^2 R^2 - 3 l^2 r^4 R^2 + 60 r^6 R^2 - 24 l^2 r^3 R^3 + 104 r^5 R^3 + 8 l^4 R^4 + 8 l^2 r^2 R^4 + 32 r^4 R^4 + 48 l^2 r R^5 - 240 r^3 R^5 + 16 l^2 R^6 - 448 r^2 R^6 - 256 r R^7\big) \Big/ \big((r - R)^2 (-l^2 + 3 r^2 + 12 r R + 12 R^2)^2\big)\}$$

$$\{X27,\ \text{CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER},\ X57,\ \text{ISOGONAL CONJUGATE OF } X(9),$$
$$-\Big(\big(l^6 r^2 + 3 l^4 r^4 + 3 l^2 r^6 + r^8 - 8 l^6 r R + 12 l^4 r^3 R + 8 l^2 r^5 R + 20 r^7 R + 12 l^6 R^2 - 52 l^2 r^4 R^2 + 168 r^6 R^2 - 32 l^4 r R^3 - 256 l^2 r^3 R^3 + 768 r^5 R^3 - 32 l^4 R^4 - 400 l^2 r^2 R^4 + 2064 r^4 R^4 - 256 l^2 r R^5 + 3264 r^3 R^5 - 64 l^2 R^6 + 2816 r^2 R^6 + 1024 r R^7\big) \Big/ \big((r - 2 R)^2 (-l^2 + 3 r^2 + 12 r R + 12 R^2)^2\big)\Big)\}$$

$$\{X27,\ \text{CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER},\ X58,\ \text{ISOGONAL CONJUGATE OF } X(10),$$
$$-\left(\left(\left(l^2+r^2+2\,r\,R\right)^2\left(3\,l^6-19\,l^4\,r^2+33\,l^2\,r^4-9\,r^6-40\,l^4\,r\,R+144\,l^2\,r^3\,R-72\,r^5\,R-8\,l^4\,R^2+176\,l^2\,r^2\,R^2-200\,r^4\,R^2+32\,l^2\,r\,R^3-160\,r^3\,R^3-16\,l^2\,R^4+176\,r^2\,R^4+256\,r\,R^5\right)\right)\Big/\left(\left(l^2-3\,r^2-4\,r\,R\right)^2\left(l^2-3\,r^2-12\,r\,R-12\,R^2\right)^2\right)\right)\}$$

$$\{X27,\ \text{CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER},\ X59,$$
$$\text{ISOGONAL CONJUGATE OF } X(11),\ \frac{1}{(2\,r-R)\left(-l^2+r^2+5\,r\,R+4\,R^2\right)^2\left(-l^2+3\,r^2+12\,r\,R+12\,R^2\right)^2}$$
$$\left(-5\,l^{10}\,r+5\,l^8\,r^3+14\,l^6\,r^5-6\,l^4\,r^7-9\,l^2\,r^9+r^{11}+3\,l^{10}\,R+42\,l^8\,r^2\,R+54\,l^6\,r^4\,R-108\,l^4\,r^6\,R-97\,l^2\,r^8\,R+26\,r^{10}\,R+8\,l^8\,r\,R^2+24\,l^6\,r^3\,R^2-552\,l^4\,r^5\,R^2-408\,l^2\,r^7\,R^2+288\,r^9\,R^2-32\,l^8\,R^3+12\,l^6\,r^2\,R^3-1284\,l^4\,r^4\,R^3-764\,l^2\,r^6\,R^3+1780\,r^8\,R^3+112\,l^6\,r\,R^4-1424\,l^4\,r^3\,R^4-384\,l^2\,r^5\,R^4+6752\,r^7\,R^4+96\,l^6\,R^5-496\,l^4\,r^2\,R^5+384\,l^2\,r^4\,R^5+16\,320\,r^6\,R^5+256\,l^4\,r\,R^6-960\,l^2\,r^3\,R^6+25\,472\,r^5\,R^6-3776\,l^2\,r^2\,R^7+26\,176\,r^4\,R^7-3072\,l^2\,r\,R^8+19\,200\,r^3\,R^8-256\,l^2\,R^9+11\,264\,r^2\,R^9+4096\,r\,R^{10}\right)\}$$

$$\{X27,\ \text{CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER},\ X60,\ \text{ISOGONAL CONJUGATE OF } X(12),$$
$$-\left(\left(\left(l^2+r^2+2\,r\,R\right)^2\left(10\,l^6\,r^2-30\,l^4\,r^4+22\,l^2\,r^6-2\,r^8+11\,l^6\,r\,R-127\,l^4\,r^3\,R+161\,l^2\,r^5\,R-21\,r^7\,R+3\,l^6\,R^2-172\,l^4\,r^2\,R^2+451\,l^2\,r^4\,R^2-78\,r^6\,R^2-76\,l^4\,r\,R^3+576\,l^2\,r^3\,R^3-84\,r^5\,R^3-8\,l^4\,R^4+288\,l^2\,r^2\,R^4+196\,r^4\,R^4+656\,r^3\,R^5-16\,l^2\,R^6+688\,r^2\,R^6+256\,r\,R^7\right)\right)\Big/\left(\left(l^2-3\,r^2-12\,r\,R-12\,R^2\right)^2\left(2\,l^2\,r-2\,r^3+l^2\,R-7\,r^2\,R-7\,r\,R^2\right)^2\right)\right)\}$$

$$\{X27,\ \text{CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER},\ X61,\ \text{ISOGONAL CONJUGATE OF } X(17),$$
$$-\left(\left(27\left(9\,l^{10}+10\sqrt{3}\,l^9\,r-l^8\,r^2-22\,l^6\,r^4-28\sqrt{3}\,l^5\,r^5-2\,l^4\,r^6-16\sqrt{3}\,l^3\,r^7+13\,l^2\,r^8+2\sqrt{3}\,l\,r^9+3\,r^{10}-84\,l^8\,r\,R-32\sqrt{3}\,l^7\,r^2\,R-64\,l^6\,r^3\,R-160\sqrt{3}\,l^5\,r^4\,R+56\,l^4\,r^5\,R-96\sqrt{3}\,l^3\,r^6\,R+96\,l^2\,r^7\,R+32\sqrt{3}\,l\,r^8\,R+60\,r^9\,R-24\,l^8\,R^2+64\,l^6\,r^2\,R^2-336\sqrt{3}\,l^5\,r^3\,R^2+160\,l^4\,r^4\,R^2-128\sqrt{3}\,l^3\,r^5\,R^2+320\,l^2\,r^6\,R^2+208\sqrt{3}\,l\,r^7\,R^2+504\,r^8\,R^2-320\sqrt{3}\,l^5\,r^2\,R^3+256\sqrt{3}\,l^3\,r^4\,R^3+896\,l^2\,r^5\,R^3+704\sqrt{3}\,l\,r^6\,R^3+2304\,r^7\,R^3-48\,l^6\,R^4-160\sqrt{3}\,l^5\,r\,R^4+80\,l^4\,r^2\,R^4+768\sqrt{3}\,l^3\,r^3\,R^4+2352\,l^2\,r^4\,R^4+1312\sqrt{3}\,l\,r^5\,R^4+6192\,r^6\,R^4+576\,l^4\,r\,R^5+512\sqrt{3}\,l^3\,r^2\,R^5+3712\,l^2\,r^3\,R^5+1280\sqrt{3}\,l\,r^4\,R^5+9792\,r^5\,R^5+2304\,l^2\,r^2\,R^6+512\sqrt{3}\,l\,r^3\,R^6+8448\,r^4\,R^6+3072\,r^3\,R^7\right)\right)\Big/\left(\left(\sqrt{3}\,l-3\,r-6\,R\right)^2\left(\sqrt{3}\,l+3\,r+6\,R\right)^2\left(3\,l^2+2\sqrt{3}\,l\,r-3\,r^2-12\,r\,R\right)^2\right)\right)\}$$

$$\{X27,\ \text{CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER},\ X62,\ \text{ISOGONAL CONJUGATE OF } X(18),$$
$$\left(27\left(-9\,l^{10}+10\sqrt{3}\,l^9\,r+l^8\,r^2+22\,l^6\,r^4-28\sqrt{3}\,l^5\,r^5+2\,l^4\,r^6-16\sqrt{3}\,l^3\,r^7-13\,l^2\,r^8+2\sqrt{3}\,l\,r^9-3\,r^{10}+84\,l^8\,r\,R-32\sqrt{3}\,l^7\,r^2\,R+64\,l^6\,r^3\,R-160\sqrt{3}\,l^5\,r^4\,R-56\,l^4\,r^5\,R-96\sqrt{3}\,l^3\,r^6\,R-96\,l^2\,r^7\,R+32\sqrt{3}\,l\,r^8\,R-60\,r^9\,R+24\,l^8\,R^2-64\,l^6\,r^2\,R^2-336\sqrt{3}\,l^5\,r^3\,R^2-160\,l^4\,r^4\,R^2-128\sqrt{3}\,l^3\,r^5\,R^2+320\,l^2\,r^6\,R^2+208\sqrt{3}\,l\,r^7\,R^2-504\,r^8\,R^2-320\sqrt{3}\,l^5\,r^2\,R^3+256\sqrt{3}\,l^3\,r^4\,R^3-896\,l^2\,r^5\,R^3+704\sqrt{3}\,l\,r^6\,R^3-2304\,r^7\,R^3+48\,l^6\,R^4-160\sqrt{3}\,l^5\,r\,R^4-80\,l^4\,r^2\,R^4+768\sqrt{3}\,l^3\,r^3\,R^4-2352\,l^2\,r^4\,R^4+1312\sqrt{3}\,l\,r^5\,R^4-6192\,r^6\,R^4-576\,l^4\,r\,R^5+512\sqrt{3}\,l^3\,r^2\,R^5-3712\,l^2\,r^3\,R^5+1280\sqrt{3}\,l\,r^4\,R^5-9792\,r^5\,R^5-2304\,l^2\,r^2\,R^6+512\sqrt{3}\,l\,r^3\,R^6-8448\,r^4\,R^6-3072\,r^3\,R^7\right)\right)\Big/\left(\left(\sqrt{3}\,l-3\,r-6\,R\right)^2\left(\sqrt{3}\,l+3\,r+6\,R\right)^2\left(3\,l^2-2\sqrt{3}\,l\,r-3\,r^2-12\,r\,R\right)^2\right)\}$$

$$\{X27,\ \text{CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER},\ X63,\ \text{ISOGONAL CONJUGATE OF } X(19),$$
$$-\left(\left((r+2\,R)^2\left(l^6+3\,l^4\,r^2+3\,l^2\,r^4+r^6+8\,l^4\,r\,R-8\,l^2\,r^3\,R+16\,r^5\,R-4\,l^4\,R^2-80\,l^2\,r^2\,R^2+100\,r^4\,R^2-112\,l^2\,r\,R^3+304\,r^3\,R^3-16\,l^2\,R^4+448\,r^2\,R^4+256\,r\,R^5\right)\right)\Big/\left((r+R)^2\left(-l^2+3\,r^2+12\,r\,R+12\,R^2\right)^2\right)\right)\}$$

$$\Big\{\text{X27, CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER, X64, ISOGONAL CONJUGATE OF X(20)}, -\frac{1}{(l-r-2R)^2\,(l+r+2R)^2\,\left(l^2-3r^2-12rR-12R^2\right)^2}$$
$$\big(l^{10}-l^8r^2+2l^6r^4+6l^4r^6-3l^2r^8-5r^{10}+12l^8rR-32l^6r^3R+56l^4r^5R-100r^9R+20l^8R^2-212l^6r^2R^2+160l^4r^4R^2+428l^2r^6R^2-988r^8R^2-384l^6rR^3-96l^4r^3R^3+3936l^2r^5R^3-6208r^7R^3-208l^6R^4-1392l^4r^2R^4+17136l^2r^4R^4-26800r^6R^4-2624l^4rR^5+42752l^2r^3R^5-81472r^5R^5-1600l^4R^6+62784l^2r^2R^6-174400r^4R^6+50688l^2rR^7-257536r^3R^7+17408l^2R^8-249856r^2R^8-143360rR^9-36864R^{10}\big)\Big\}$$

$$\Big\{\text{X27, CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER, X65, ORTHOCENTER OF THE INTOUCH TRIANGLE}, -\Big(\big(l^6r+l^4r^3-17l^2r^5+15r^7+3l^6R-6l^4r^2R-101l^2r^4R+148r^6R-16l^4rR^2-216l^2r^3R^2+600r^5R^2-8l^4R^3-200l^2r^2R^3+1280r^4R^3-80l^2rR^4+1520r^3R^4-16l^2R^5+960r^2R^5+256rR^6\big)\big/\big(R\left(-l^2+3r^2+12rR+12R^2\right)^2\big)\Big)\Big\}$$

$$\Big\{\text{X27, CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER, X66, ISOGONAL CONJUGATE OF X(22)}, -\Big(\big(6l^{14}-46l^{12}r^2+158l^{10}r^4-294l^8r^6+306l^6r^8-170l^4r^{10}+42l^2r^{12}-2r^{14}-152l^{12}rR+1040l^{10}r^3R-2952l^8r^5R+4192l^6r^7R-2984l^4r^9R+912l^2r^{11}R-56r^{13}R-95l^{12}R^2+2298l^{10}r^2R^2-11417l^8r^4R^2+23660l^6r^6R^2-22481l^4r^8R^2+8730l^2r^{10}R^2-695r^{12}R^2+1944l^{10}rR^3-21320l^8r^3R^3+70832l^6r^5R^3-94736l^4r^7R^3+48312l^2r^9R^3-5032r^{11}R^3+484l^{10}R^4-19524l^8r^2R^4+120216l^6r^4R^4-243544l^4r^6R^4+170244l^2r^8R^4-23524r^{10}R^4-7632l^8rR^5+113600l^6r^3R^5-389536l^4r^5R^5+396096l^2r^7R^5-74128r^9R^5-784l^8R^6+53360l^6r^2R^6-376128l^4r^4R^6+608880l^2r^6R^6-159184r^8R^6+8704l^6rR^7-198016l^4r^3R^7+597888l^2r^5R^7-229120r^7R^7-64l^6R^8-41920l^4r^2R^8+343488l^2r^4R^8-209344r^6R^8+768l^4rR^9+92160l^2r^3R^9-105728r^5R^9+3840l^2r^2R^{10}-17408r^4R^{10}+4096r^3R^{11}\big)\big/\big((l-r-2R)^2\,(l+r+2R)^2\,\left(l^2-r^2-4rR\right)^2\,\left(l^2-3r^2-12rR-12R^2\right)^2\big)\Big)\Big\}$$

$$\Big\{\text{X27, CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER, X67, ISOGONAL CONJUGATE OF X(23)}, -\Big(\big(10l^{12}-72l^{10}r^2+234l^8r^4-368l^6r^6+270l^4r^8-72l^2r^{10}-2r^{12}-192l^{10}rR+1296l^8r^3R-3264l^6r^5R+3360l^4r^7R-1152l^2r^9R-48r^{11}R-107l^{10}R^2+2299l^8r^2R^2-10838l^6r^4R^2+17150l^4r^6R^2-7999l^2r^8R^2-505r^{10}R^2+1468l^8rR^3-16416l^6r^3R^3+45720l^4r^5R^3-31360l^2r^7R^3-3060r^9R^3+232l^8R^4-10668l^6r^2R^4+66504l^4r^4R^4-75436l^2r^6R^4-11784r^8R^4-1792l^6rR^5+48800l^4r^3R^5-112864l^2r^5R^5-29952r^7R^5+144l^6R^6+12336l^4r^2R^6-100912l^2r^4R^6-50320r^6R^6-1728l^4rR^7-47872l^2r^3R^7-53952r^5R^7-8640l^2r^2R^8-33536r^4R^8-9216r^3R^9\big)\big/\big(\left(l^2-r^2-4rR\right)^2\,\left(l^2-3r^2-12rR-12R^2\right)^2\,\left(2l^2-2r^2-8rR-9R^2\right)\big)\Big)\Big\}$$

$$\Big\{\text{X27, CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER, X68, PRASOLOV POINT}, -\frac{1}{(l-r-2R)^2\,(l+r+2R)^2\,\left(l^2-3r^2-12rR-12R^2\right)^2}$$
$$\big(6l^{10}-34l^8r^2+84l^6r^4-92l^4r^6+38l^2r^8-2r^{10}-104l^8rR+512l^6r^3R-880l^4r^5R+512l^2r^7R-40r^9R-99l^8R^2+1188l^6r^2R^2-3474l^4r^4R^2+3012l^2r^6R^2-355r^8R^2+1280l^6rR^3-7216l^4r^3R^3+10016l^2r^5R^3-1840r^7R^3+580l^6R^4-8348l^4r^2R^4+20380l^2r^4R^4-6148r^6R^4-5232l^4rR^5+25696l^2r^3R^5-13744r^5R^5-1492l^4R^6+19448l^2r^2R^6-20596r^4R^6+8160l^2rR^7-20128r^3R^7+1568l^2R^8-12064r^2R^8-3968rR^9-576R^{10}\big)\Big\}$$

$$\Big\{\text{X27, CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER, X69, SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE}, -\frac{1}{\left(l^2-r^2-4rR\right)^2\,\left(l^2-3r^2-12rR-12R^2\right)^2}4\,\big(l^{10}-7l^8r^2+22l^6r^4-26l^4r^6+9l^2r^8+r^{10}-12l^8rR+96l^6r^3R-200l^4r^5R+96l^2r^7R+20r^9R-4l^8R^2+108l^6r^2R^2-564l^4r^4R^2+468l^2r^6R^2+168r^8R^2-640l^4r^3R^3+1344l^2r^5R^3+768r^7R^3-16l^6R^4-112l^4r^2R^4+2352l^2r^4R^4+2064r^6R^4+192l^4rR^5+2304l^2r^3R^5+3264r^5R^5+960l^2r^2R^6+2816r^4R^6+1024r^3R^7\big)\Big\}$$

$$\{X27,\ \text{CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER},\ X70,\ \text{ISOGONAL CONJUGATE OF } X(26),$$
$$-\Big(\big(6 l^{14} - 46 l^{12} r^2 + 158 l^{10} r^4 - 294 l^8 r^6 + 306 l^6 r^8 - 170 l^4 r^{10} + 42 l^2 r^{12} - 2 r^{14} - 152 l^{12} r R + 1040 l^{10} r^3 R - 2952 l^8 r^5 R + 4192 l^6 r^7 R - 2984 l^4 r^9 R + 912 l^2 r^{11} R - 56 r^{13} R - 121 l^{12} R^2 + 2466 l^{10} r^2 R^2 - 11891 l^8 r^4 R^2 + 24348 l^6 r^6 R^2 - 22991 l^4 r^8 R^2 + 8898 l^2 r^{10} R^2 - 709 r^{12} R^2 + 2520 l^{10} r R^3 - 24536 l^8 r^3 R^3 + 77936 l^6 r^5 R^3 - 101936 l^4 r^7 R^3 + 51384 l^2 r^9 R^3 - 5368 r^{11} R^3 + 934 l^{10} R^4 - 27290 l^8 r^2 R^4 + 149444 l^6 r^4 R^4 - 286364 l^4 r^6 R^4 + 194710 l^2 r^8 R^4 - 27082 r^{10} R^4 - 15496 l^8 r R^5 + 174464 l^6 r^3 R^5 - 528624 l^4 r^5 R^5 + 507136 l^2 r^7 R^5 - 96008 r^9 R^5 - 3527 l^8 R^6 + 120152 l^6 r^2 R^6 - 643086 l^4 r^4 R^6 + 924192 l^2 r^6 R^6 - 245683 r^8 R^6 + 44496 l^6 r R^7 - 502864 l^4 r^3 R^7 + 1176112 l^2 r^5 R^7 - 458800 r^7 R^7 + 6932 l^6 R^8 - 238708 l^4 r^2 R^8 + 1024300 l^2 r^4 R^8 - 624460 r^6 R^8 - 61904 l^4 r R^9 + 585696 l^2 r^3 R^9 - 611600 r^5 R^9 - 7028 l^4 R^{10} + 204840 l^2 r^2 R^{10} - 419892 r^4 R^{10} + 39072 l^2 r R^{11} - 193184 r^3 R^{11} + 3296 l^2 R^{12} - 55200 r^2 R^{12} - 8576 r R^{13} - 576 R^{14}\big) \Big/ \big(\big(l^2 - 3 r^2 - 12 r R - 12 R^2\big)^2 \big(l^4 - 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 6 l^2 R^2 + 22 r^2 R^2 + 24 r R^3 + 7 R^4\big)^2\big)\Big)\}$$

$$\{X27,\ \text{CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER},\ X71,$$
$$\text{ISOGONAL CONJUGATE OF } X(27),\ -\frac{1}{\big(l^2 - 3 r^2 - 12 r R - 12 R^2\big)^2 \big(l^2 + r^2 + 6 r R + 8 R^2\big)^2}$$
$$\big(l^{10} + 5 l^8 r^2 + 10 l^6 r^4 + 10 l^4 r^6 + 5 l^2 r^8 + r^{10} + 40 l^8 r R + 80 l^6 r^3 R + 64 l^4 r^5 R + 48 l^2 r^7 R + 24 r^9 R + 52 l^8 R^2 + 312 l^6 r^2 R^2 - 112 l^4 r^4 R^2 + 136 l^2 r^6 R^2 + 252 r^8 R^2 + 592 l^6 r R^3 - 1840 l^4 r^3 R^3 - 144 l^2 r^5 R^3 + 1520 r^7 R^3 + 416 l^6 R^4 - 5648 l^4 r^2 R^4 - 1728 l^2 r^4 R^4 + 5808 r^6 R^4 - 7296 l^4 r R^5 - 4224 l^2 r^3 R^5 + 14592 r^5 R^5 - 3520 l^4 R^6 - 4736 l^2 r^2 R^6 + 24128 r^4 R^6 - 2304 l^2 r R^7 + 25344 r^3 R^7 - 256 l^2 R^8 + 15360 r^2 R^8 + 4096 r R^9\big)\}$$

$$\{X27,\ \text{CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER},\ X72,\ \text{ISOGONAL CONJUGATE OF } X(28),$$
$$-\Big(\big(-2 l^6 r + 8 l^4 r^3 - 10 l^2 r^5 + 12 r^7 + 4 l^6 R + 31 l^4 r^2 R - 94 l^2 r^4 R + 151 r^6 R + 24 l^4 r R^2 - 336 l^2 r^3 R^2 + 792 r^5 R^2 - 16 l^4 R^3 - 552 l^2 r^2 R^3 + 2216 r^4 R^3 - 384 l^2 r R^4 + 3488 r^3 R^4 - 64 l^2 R^5 + 2928 r^2 R^5 + 1024 r R^6\big) \Big/ \big(R \big(-l^2 + 3 r^2 + 12 r R + 12 R^2\big)^2\big)\Big)\}$$

$$\{X27,\ \text{CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER},\ X73,$$
$$\text{CROSSPOINT OF INCENTER AND CIRCUMCENTER},\ -\frac{1}{\big(l^2 - 3 r^2 - 12 r R - 12 R^2\big)^2 \big(l^2 + r^2 - 2 r R - 4 R^2\big)^2}$$
$$\big(3 l^{10} + 7 l^8 r^2 - 2 l^6 r^4 - 18 l^4 r^6 - 17 l^2 r^8 - 5 r^{10} - 20 l^8 r R - 48 l^6 r^3 R - 88 l^4 r^5 R - 112 l^2 r^7 R - 52 r^9 R - 32 l^8 R^2 - 24 l^6 r^2 R^2 - 136 l^4 r^4 R^2 - 136 l^2 r^6 R^2 - 248 r^8 R^2 + 112 l^6 r R^3 + 16 l^4 r^3 R^3 + 592 l^2 r^5 R^3 - 848 r^7 R^3 + 96 l^6 R^4 + 304 l^4 r^2 R^4 + 1664 l^2 r^4 R^4 - 2448 r^6 R^4 + 320 l^4 r R^5 + 256 l^2 r^3 R^5 - 4928 r^5 R^5 - 3072 l^2 r^2 R^6 - 4608 r^4 R^6 - 2816 l^2 r R^7 + 1792 r^3 R^7 - 256 l^2 R^8 + 7168 r^2 R^8 + 4096 r R^9\big)\}$$

$$\{X27,\ \text{CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER},\ X74,$$
$$\text{ISOGONAL CONJUGATE OF EULER INFINITY POINT},\ -\frac{1}{\big(l^2 - 3 r^2 - 12 r R - 12 R^2\big)^2 \big(2 l^2 - 2 r^2 - 8 r R - 9 R^2\big)}$$
$$\big(3 l^8 - 2 l^4 r^4 + 8 l^2 r^6 + 7 r^8 + 16 l^6 r R - 48 l^4 r^3 R + 48 l^2 r^5 R + 112 r^7 R + 20 l^6 R^2 - 228 l^4 r^2 R^2 + 12 l^2 r^4 R^2 + 836 r^6 R^2 - 400 l^4 r R^3 - 544 l^2 r^3 R^3 + 3760 r^5 R^3 - 236 l^4 R^4 - 1640 l^2 r^2 R^4 + 10964 r^4 R^4 - 1952 l^2 r R^5 + 20896 r^3 R^5 - 864 l^2 R^6 + 25120 r^2 R^6 + 17280 r R^7 + 5184 R^8\big)\}$$

$$\{X27,\ \text{CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER},$$
$$X75,\ \text{ISOTOMIC CONJUGATE OF INCENTER},\ -\Big(\big(4 \big(l^2 - r^2 - 2 r R\big)^2 \big(l^6 + 3 l^4 r^2 + 3 l^2 r^4 + r^6 + 8 l^4 r R - 8 l^2 r^3 R + 16 r^5 R - 4 l^4 R^2 - 80 l^2 r^2 R^2 + 100 r^4 R^2 - 112 l^2 r R^3 + 304 r^3 R^3 - 16 l^2 R^4 + 448 r^2 R^4 + 256 r R^5\big)\big) \Big/ \big(\big(l^2 + r^2 + 4 r R\big)^2 \big(l^2 - 3 r^2 - 12 r R - 12 R^2\big)^2\big)\Big)\}$$

$$\{X27,\ \text{CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER},\ X76,\ \text{3rd BROCARD POINT},$$
$$-\Big(\Big(4\,\big(l^{14}+3\,l^{12}\,r^2+l^{10}\,r^4-5\,l^8\,r^6-5\,l^6\,r^8+l^4\,r^{10}+3\,l^2\,r^{12}+r^{14}-20\,l^{12}\,r\,R-24\,l^{10}\,r^3\,R+4\,l^8\,r^5\,R-$$
$$16\,l^6\,r^7\,R-12\,l^4\,r^9\,R+40\,l^2\,r^{11}\,R+28\,r^{13}\,R-4\,l^{12}\,R^2+116\,l^{10}\,r^2\,R^2-128\,l^8\,r^4\,R^2+$$
$$440\,l^6\,r^6\,R^2-468\,l^4\,r^8\,R^2+212\,l^2\,r^{10}\,R^2+344\,r^{12}\,R^2+32\,l^{10}\,r\,R^3-256\,l^8\,r^3\,R^3+2112\,l^6\,r^5\,R^3-$$
$$3456\,l^4\,r^7\,R^3+672\,l^2\,r^9\,R^3+2432\,r^{11}\,R^3-16\,l^{10}\,R^4+112\,l^8\,r^2\,R^4+2816\,l^6\,r^4\,R^4-$$
$$11\,264\,l^4\,r^6\,R^4+2064\,l^2\,r^8\,R^4+10\,896\,r^{10}\,R^4+320\,l^8\,r\,R^5+384\,l^6\,r^3\,R^5-18\,304\,l^4\,r^5\,R^5+$$
$$6528\,l^2\,r^7\,R^5+32\,064\,r^9\,R^5-832\,l^6\,r^2\,R^6-13\,952\,l^4\,r^4\,R^6+14\,016\,l^2\,r^6\,R^6+61\,952\,r^8\,R^6-$$
$$3584\,l^4\,r^3\,R^7+15\,872\,l^2\,r^5\,R^7+75\,776\,r^7\,R^7+7168\,l^2\,r^4\,R^8+53\,248\,r^6\,R^8+16\,384\,r^5\,R^9\big)\Big)\Big/$$
$$\Big(\big(l^2-3\,r^2-12\,r\,R-12\,R^2\big)^2\,\big(l^4+2\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R+16\,r^2\,R^2\big)^2\Big)\Big)\Big\}$$

$$\{X27,\ \text{CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER},\ X77,$$
$$\text{ISOGONAL CONJUGATE OF } X(33),\ -\frac{1}{\big(l^2-3\,r^2-12\,r\,R-12\,R^2\big)^2\,\big(l^2-r\,R-4\,R^2\big)^2}$$
$$\big(3\,l^{10}+l^8\,r^2-7\,l^6\,r^4-5\,l^4\,r^6-12\,l^8\,r\,R-40\,l^6\,r^3\,R-4\,l^4\,r^5\,R-8\,l^2\,r^7\,R-32\,l^8\,R^2-60\,l^6\,r^2\,R^2+$$
$$164\,l^4\,r^4\,R^2-108\,l^2\,r^6\,R^2+4\,r^8\,R^2+32\,l^6\,r\,R^3+688\,l^4\,r^3\,R^3-704\,l^2\,r^5\,R^3+80\,r^7\,R^3+$$
$$96\,l^6\,R^4+1056\,l^4\,r^2\,R^4-2608\,l^2\,r^4\,R^4+672\,r^6\,R^4+576\,l^4\,r\,R^5-5504\,l^2\,r^3\,R^5+3072\,r^5\,R^5-$$
$$6208\,l^2\,r^2\,R^6+8256\,r^4\,R^6-3072\,l^2\,r\,R^7+13\,056\,r^3\,R^7-256\,l^2\,R^8+11\,264\,r^2\,R^8+4096\,r\,R^9\big)\Big\}$$

$$\{X27,\ \text{CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER},\ X78,\ \text{ISOGONAL CONJUGATE OF } X(34),$$
$$\big(-3\,l^6\,r^2-l^4\,r^4+7\,l^2\,r^6+5\,r^8+8\,l^6\,r\,R-12\,l^4\,r^3\,R+56\,l^2\,r^5\,R+44\,r^7\,R-4\,l^6\,R^2-36\,l^4\,r^2\,R^2+188\,l^2\,r^4\,R^2+$$
$$108\,r^6\,R^2-32\,l^4\,r\,R^3+352\,l^2\,r^3\,R^3-160\,r^5\,R^3+16\,l^4\,R^4+400\,l^2\,r^2\,R^4-1360\,r^4\,R^4+256\,l^2\,r\,R^5-$$
$$2880\,r^3\,R^5+64\,l^2\,R^6-2752\,r^2\,R^6-1024\,r\,R^7\big)\Big/\Big((r-R)^2\,\big(-l^2+3\,r^2+12\,r\,R+12\,R^2\big)^2\Big)\Big\}$$

$$\{X27,\ \text{CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER},\ X79,$$
$$\text{ISOGONAL CONJUGATE OF } X(35),\ \frac{1}{(2\,r+3\,R)^2\,\big(-l^2+3\,r^2+12\,r\,R+12\,R^2\big)^2}$$
$$\big(-40\,l^6\,r^2+120\,l^4\,r^4-88\,l^2\,r^6+8\,r^8-66\,l^6\,r\,R+610\,l^4\,r^3\,R-758\,l^2\,r^5\,R+102\,r^7\,R-27\,l^6\,R^2+$$
$$1015\,l^4\,r^2\,R^2-2497\,l^2\,r^4\,R^2+493\,r^6\,R^2+576\,l^4\,r\,R^3-3768\,l^2\,r^3\,R^3+1000\,r^5\,R^3+72\,l^4\,R^4-$$
$$2288\,l^2\,r^2\,R^4+120\,r^4\,R^4-96\,l^2\,r\,R^5-2944\,r^3\,R^5+144\,l^2\,R^6-4656\,r^2\,R^6-2304\,r\,R^7\big)\Big\}$$

$$\{X27,\ \text{CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER},$$
$$X80,\ \text{REFLECTION OF INCENTER IN FEUERBACH POINT},$$
$$\big(-12\,l^6\,r+36\,l^4\,r^3-52\,l^2\,r^5+28\,r^7+3\,l^6\,R+121\,l^4\,r^2\,R-327\,l^2\,r^4\,R+259\,r^6\,R+$$
$$112\,l^4\,r\,R^2-776\,l^2\,r^3\,R^2+968\,r^5\,R^2-8\,l^4\,R^3-848\,l^2\,r^2\,R^3+1864\,r^4\,R^3-384\,l^2\,r\,R^4+$$
$$1952\,r^3\,R^4-16\,l^2\,R^5+1072\,r^2\,R^5+256\,r\,R^6\big)\Big/\Big((2\,r-R)\,\big(-l^2+3\,r^2+12\,r\,R+12\,R^2\big)^2\Big)\Big\}$$

$$\{X27,\ \text{CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER},$$
$$X81,\ \text{CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},$$
$$-\Big(\Big(\big(l^2+r^2+2\,r\,R\big)^2\,\big(3\,l^6-9\,l^4\,r^2+5\,l^2\,r^4+r^6-20\,l^4\,r\,R+12\,l^2\,r^3\,R+16\,r^5\,R-8\,l^4\,R^2-$$
$$16\,l^2\,r^2\,R^2+100\,r^4\,R^2-48\,l^2\,r\,R^3+304\,r^3\,R^3-16\,l^2\,R^4+448\,r^2\,R^4+256\,r\,R^5\big)\Big)\Big/$$
$$\Big(\big(l^2-r^2-r\,R\big)^2\,\big(l^2-3\,r^2-12\,r\,R-12\,R^2\big)^2\Big)\Big)\Big\}$$

$$\{X27,\ \text{CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER},\ X82,\ \text{ISOGONAL CONJUGATE OF } X(38),$$
$$-\Big(\big(3\,l^{14}-19\,l^{12}\,r^2+27\,l^{10}\,r^4+29\,l^8\,r^6-63\,l^6\,r^8-l^4\,r^{10}+33\,l^2\,r^{12}-9\,r^{14}-56\,l^{12}\,r\,R+208\,l^{10}\,r^3\,R+$$
$$88\,l^8\,r^5\,R-736\,l^6\,r^7\,R+184\,l^4\,r^9\,R+528\,l^2\,r^{11}\,R-216\,r^{13}\,R-8\,l^{12}\,R^2+356\,l^{10}\,r^2\,R^2-68\,l^8\,r^4\,R^2-$$
$$3176\,l^6\,r^6\,R^2+2048\,l^4\,r^8\,R^2+3588\,l^2\,r^{10}\,R^2-2228\,r^{12}\,R^2+48\,l^{10}\,r\,R^3+80\,l^8\,r^3\,R^3-7232\,l^6\,r^5\,R^3+$$
$$9472\,l^4\,r^7\,R^3+13\,072\,l^2\,r^9\,R^3-12\,880\,r^{11}\,R^3-16\,l^{10}\,R^4+832\,l^8\,r^2\,R^4-10\,512\,l^6\,r^4\,R^4+$$
$$24\,304\,l^4\,r^6\,R^4+25\,952\,l^2\,r^8\,R^4-45\,552\,r^{10}\,R^4+448\,l^8\,r\,R^5-9536\,l^6\,r^3\,R^5+37\,056\,l^4\,r^5\,R^5+$$
$$22\,720\,l^2\,r^7\,R^5-100\,608\,r^9\,R^5-3776\,l^6\,r^2\,R^6+31\,808\,l^4\,r^4\,R^6-5824\,l^2\,r^6\,R^6-134\,592\,r^8\,R^6+$$
$$12\,032\,l^4\,r^3\,R^7-25\,088\,l^2\,r^5\,R^7-97\,536\,r^7\,R^7-12\,544\,l^2\,r^4\,R^8-25\,600\,r^6\,R^8+4096\,r^5\,R^9\big)\Big/$$
$$\Big(\big(l^2-3\,r^2-12\,r\,R-12\,R^2\big)^2\,\big(l^4-4\,l^2\,r^2+3\,r^4-9\,l^2\,r\,R+19\,r^3\,R+28\,r^2\,R^2\big)^2\Big)\Big)\Big\}$$

$$\{X27,\ \text{CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER},$$
$$X83,\ \text{CEVAPOINT OF CENTROID AND SYMMEDIAN POINT},$$
$$-\Big(\Big(4\,\big(21\,l^{14}-37\,l^{12}\,r^2-35\,l^{10}\,r^4+75\,l^8\,r^6+7\,l^6\,r^8-39\,l^4\,r^{10}+7\,l^2\,r^{12}+r^{14}-404\,l^{12}\,r\,R+424\,l^{10}\,r^3\,R+$$
$$644\,l^8\,r^5\,R-528\,l^6\,r^7\,R-268\,l^4\,r^9\,R+104\,l^2\,r^{11}\,R+28\,r^{13}\,R-84\,l^{12}\,R^2+2788\,l^{10}\,r^2\,R^2-$$
$$864\,l^8\,r^4\,R^2-3112\,l^6\,r^6\,R^2-164\,l^4\,r^8\,R^2+580\,l^2\,r^{10}\,R^2+344\,r^{12}\,R^2+1248\,l^{10}\,r\,R^3-7936\,l^8\,r^3\,R^3-$$
$$2880\,l^6\,r^5\,R^3+2176\,l^4\,r^7\,R^3+1376\,l^2\,r^9\,R^3+2432\,r^{11}\,R^3-16\,l^{10}\,R^4-5904\,l^8\,r^2\,R^4+7808\,l^6\,r^4\,R^4+$$
$$3456\,l^4\,r^6\,R^4+656\,l^2\,r^8\,R^4+10\,896\,r^{10}\,R^4+320\,l^8\,r\,R^5+10\,112\,l^6\,r^3\,R^5-4992\,l^4\,r^5\,R^5-$$
$$2176\,l^2\,r^7\,R^5+32\,064\,r^9\,R^5-832\,l^6\,r^2\,R^6-11\,904\,l^4\,r^4\,R^6-320\,l^2\,r^6\,R^6+61\,952\,r^8\,R^6-$$
$$3584\,l^4\,r^3\,R^7+7680\,l^2\,r^5\,R^7+75\,776\,r^7\,R^7+7168\,l^2\,r^4\,R^8+53\,248\,r^6\,R^8+16\,384\,r^5\,R^9\big)\Big)\Big/$$
$$\Big(\big(l^2-3\,r^2-12\,r\,R-12\,R^2\big)^2\,\big(5\,l^4-6\,l^2\,r^2+5\,r^4-40\,l^2\,r\,R+40\,r^3\,R+80\,r^2\,R^2\big)^2\Big)\Big)\Big\}$$

$$\{X27,\ \text{CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER},\ X84,\ \text{ISOGONAL CONJUGATE OF } X(40),$$
$$-\Big(\Big((r+2\,R)^2\,\big(l^6+3\,l^4\,r^2+3\,l^2\,r^4+r^6-4\,l^4\,r\,R-16\,l^2\,r^3\,R+20\,r^5\,R-28\,l^4\,R^2-56\,l^2\,r^2\,R^2+116\,r^4\,R^2+96$$
$$l^2\,r\,R^3+256\,r^3\,R^3+240\,l^2\,R^4+48\,r^2\,R^4-576\,r\,R^5-576\,R^6\big)\Big)\Big/\Big(r^2\,\big(-l^2+3\,r^2+12\,r\,R+12\,R^2\big)^2\Big)\Big)\Big\}$$

$$\{X27,\ \text{CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER},\ X85,$$
$$\text{ISOTOMIC CONJUGATE OF } X(9),\ -\frac{1}{\big(l^2-3\,r^2-12\,r\,R-12\,R^2\big)^2\,\big(l^2+r^2+8\,r\,R+16\,R^2\big)^2}$$
$$4\,\big(l^{10}+l^8\,r^2-2\,l^6\,r^4-2\,l^4\,r^6+l^2\,r^8+r^{10}+20\,l^8\,r\,R-56\,l^6\,r^3\,R+16\,l^4\,r^5\,R-8\,l^2\,r^7\,R+$$
$$28\,r^9\,R+28\,l^8\,R^2-212\,l^6\,r^2\,R^2+220\,l^4\,r^4\,R^2-284\,l^2\,r^6\,R^2+344\,r^8\,R^2-224\,l^6\,r\,R^3+$$
$$768\,l^4\,r^3\,R^3-2208\,l^2\,r^5\,R^3+2432\,r^7\,R^3-16\,l^6\,R^4+1040\,l^4\,r^2\,R^4-8208\,l^2\,r^4\,R^4+$$
$$10\,896\,r^6\,R^4+320\,l^4\,r\,R^5-16\,512\,l^2\,r^3\,R^5+32\,064\,r^5\,R^5-256\,l^4\,R^6-17\,728\,l^2\,r^2\,R^6+$$
$$61\,952\,r^4\,R^6-8704\,l^2\,r\,R^7+75\,776\,r^3\,R^7-1024\,l^2\,R^8+53\,248\,r^2\,R^8+16\,384\,r\,R^9\big)\Big\}$$

$$\{X27,\ \text{CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER},\ X86,\ \text{CEVAPOINT OF INCENTER AND CENTROID},$$
$$-\Big(\Big(4\,\big(l^2+r^2+2\,r\,R\big)^2\,\big(21\,l^6-37\,l^4\,r^2+7\,l^2\,r^4+r^6-112\,l^4\,r\,R+32\,l^2\,r^3\,R+16\,r^5\,R-84\,l^4\,R^2+$$
$$48\,l^2\,r^2\,R^2+100\,r^4\,R^2+16\,l^2\,r\,R^3+304\,r^3\,R^3-16\,l^2\,R^4+448\,r^2\,R^4+256\,r\,R^5\big)\Big)\Big/$$
$$\Big(\big(5\,l^2+r^2+4\,r\,R\big)^2\,\big(l^2-3\,r^2-12\,r\,R-12\,R^2\big)^2\Big)\Big)\Big\}$$

$$\{X27,\ \text{CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER},\ X87,\ X(2)\text{-CROSS CONJUGATE OF } X(1),$$
$$-\Big(\Big(3\,l^{14}+13\,l^{12}\,r^2+15\,l^{10}\,r^4-15\,l^8\,r^6-55\,l^6\,r^8-57\,l^4\,r^{10}-27\,l^2\,r^{12}-5\,r^{14}-128\,l^{12}\,r\,R-264\,l^{10}\,r^3\,R+$$
$$56\,l^8\,r^5\,R+304\,l^6\,r^7\,R-144\,l^4\,r^9\,R-424\,l^2\,r^{11}\,R-168\,r^{13}\,R-8\,l^{12}\,R^2+1616\,l^{10}\,r^2\,R^2+$$
$$696\,l^8\,r^4\,R^2-608\,l^6\,r^6\,R^2+1064\,l^4\,r^8\,R^2-1392\,l^2\,r^{10}\,R^2-2136\,r^{12}\,R^2+320\,l^{10}\,r\,R^3-4896\,l^8\,r^3\,R^3-$$
$$7552\,l^6\,r^5\,R^3+11\,456\,l^4\,r^7\,R^3-192\,l^2\,r^9\,R^3-13\,984\,r^{11}\,R^3-16\,l^{10}\,R^4-3344\,l^8\,r^2\,R^4-5152\,l^6\,r^4\,R^4+$$
$$35\,936\,l^4\,r^6\,R^4+2352\,l^2\,r^8\,R^4-51\,792\,r^{10}\,R^4+512\,l^8\,r\,R^5+2048\,l^6\,r^3\,R^5+40\,448\,l^4\,r^5\,R^5-$$
$$3072\,l^2\,r^7\,R^5-107\,520\,r^9\,R^5-4608\,l^6\,r^2\,R^6+11\,776\,l^4\,r^4\,R^6+10\,752\,l^2\,r^6\,R^6-103\,936\,r^8\,R^6+$$
$$4096\,l^4\,r^3\,R^7+65\,536\,l^2\,r^5\,R^7+12\,288\,r^7\,R^7+61\,440\,l^2\,r^4\,R^8+110\,592\,r^6\,R^8+65\,536\,r^5\,R^9\big)\Big/$$
$$\Big(\big(l^2-3\,r^2-12\,r\,R-12\,R^2\big)^2\,\big(l^4+2\,l^2\,r^2+r^4-20\,l^2\,r\,R+12\,r^3\,R+32\,r^2\,R^2\big)^2\Big)\Big)\Big\}$$

$$\{X27,\ \text{CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER},\ X88,$$
$$\text{ISOGONAL CONJUGATE OF } X(44),\ -\frac{1}{\big(l^2+3\,r^2-15\,r\,R\big)^2\,\big(l^2-3\,r^2-12\,r\,R-12\,R^2\big)^2}$$
$$\big(3\,l^{10}+13\,l^8\,r^2+14\,l^6\,r^4+10\,l^4\,r^6+15\,l^2\,r^8+9\,r^{10}-96\,l^8\,r\,R-188\,l^6\,r^3\,R+156\,l^4\,r^5\,R-$$
$$84\,l^2\,r^7\,R+180\,r^9\,R-8\,l^8\,R^2+828\,l^6\,r^2\,R^2+152\,l^4\,r^4\,R^2-1284\,l^2\,r^6\,R^2+1512\,r^8\,R^2+$$
$$208\,l^6\,r\,R^3-544\,l^4\,r^3\,R^3-4656\,l^2\,r^5\,R^3+6912\,r^7\,R^3-16\,l^6\,R^4-960\,l^4\,r^2\,R^4-8016\,l^2\,r^4\,R^4+$$
$$18\,576\,r^6\,R^4+448\,l^4\,r\,R^5-7680\,l^2\,r^3\,R^5+29\,376\,r^5\,R^5-3648\,l^2\,r^2\,R^6+25\,344\,r^4\,R^6+9216\,r^3\,R^7\big)\Big\}$$

$$\{X27,\ \text{CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER},\ X89,$$
$$\text{ISOGONAL CONJUGATE OF } X(45),\ -\frac{1}{\big(2\,l^2-6\,r^2+3\,r\,R\big)^2\,\big(l^2-3\,r^2-12\,r\,R-12\,R^2\big)^2}$$
$$4\,\big(3\,l^{10}-11\,l^8\,r^2-10\,l^6\,r^4+34\,l^4\,r^6+39\,l^2\,r^8+9\,r^{10}+6\,l^8\,r\,R-86\,l^6\,r^3\,R+102\,l^4\,r^5\,R+$$
$$246\,l^2\,r^7\,R+180\,r^9\,R-8\,l^8\,R^2-108\,l^6\,r^2\,R^2-136\,l^4\,r^4\,R^2+564\,l^2\,r^6\,R^2+1512\,r^8\,R^2-$$
$$104\,l^6\,r\,R^3-592\,l^4\,r^3\,R^3+984\,l^2\,r^5\,R^3+6912\,r^7\,R^3-16\,l^6\,R^4-372\,l^4\,r^2\,R^4+2544\,l^2\,r^4\,R^4+$$
$$18\,576\,r^6\,R^4+64\,l^4\,r\,R^5+4224\,l^2\,r^3\,R^5+29\,376\,r^5\,R^5+2496\,l^2\,r^2\,R^6+25\,344\,r^4\,R^6+9216\,r^3\,R^7\big)\Big\}$$

$$\Big\{\text{X27, CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER, X90,}$$

$$\text{X(3)-CROSS CONJUGATE OF X(1)},\ -\frac{1}{\left(l^2-3r^2-12rR-12R^2\right)^2\left(r^2+2rR-R^2\right)^2}$$

$$\Big(l^6r^4+3l^4r^6+3l^2r^8+r^{10}+10l^6r^3R+18l^4r^5R-2l^2r^7R+22r^9R+20l^6r^2R^2-$$
$$20l^4r^4R^2-116l^2r^6R^2+196r^8R^2-18l^6rR^3-178l^4r^3R^3-350l^2r^5R^3+930r^7R^3+$$
$$3l^6R^4-119l^4r^2R^4-215l^2r^4R^4+2563r^6R^4+128l^4rR^5+280l^2r^3R^5+4152r^5R^5-$$
$$8l^4R^6+48l^2r^2R^6+3784r^4R^6-352l^2rR^7+1792r^3R^7-16l^2R^8+560r^2R^8+256rR^9\Big)\Big\}$$

$$\Big\{\text{X27, CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER, X91, ISOGONAL CONJUGATE OF X(47)},$$

$$-\Big(\Big(4l^{10}r^2+4l^8r^4-8l^6r^6-8l^4r^8+4l^2r^{10}+4r^{12}-8l^{10}rR+16l^8r^3R-128l^6r^5R+$$
$$144l^4r^7R-120l^2r^9R+96r^{11}R+3l^{10}R^2+35l^8r^2R^2-514l^6r^4R^2+1542l^4r^6R^2-$$
$$1777l^2r^8R^2+999r^{10}R^2+56l^8rR^3-888l^6r^3R^3+5608l^4r^5R^3-9768l^2r^7R^3+$$
$$5952r^9R^3-20l^8R^4-760l^6r^2R^4+10144l^4r^4R^4-29032l^2r^6R^4+22548r^8R^4-$$
$$304l^6rR^5+9872l^4r^3R^5-51664l^2r^5R^5+56944r^7R^5+28l^6R^6+5076l^4r^2R^6-$$
$$56204l^2r^4R^6+97532r^6R^6+1216l^4rR^7-36256l^2r^3R^7+112672r^5R^7+32l^4R^8-$$
$$12736l^2r^2R^8+85216r^4R^8-2048l^2rR^9+39552r^3R^9-64l^2R^{10}+9920r^2R^{10}+1024rR^{11}\Big)\Big/$$
$$\Big(\left(l^2-3r^2-12rR-12R^2\right)^2\left(l^2r+r^3-l^2R+3r^2R+2rR^2+2R^3\right)^2\Big)\Big)\Big\}$$

$$\Big\{\text{X27, CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER,}$$
$$\text{X92, CEVAPOINT OF INCENTER AND CLAWSON POINT,}$$

$$-\Big(\Big(4(l-r-2R)^2(l+r+2R)^2\left(l^6+3l^4r^2+3l^2r^4+r^6+8l^4rR-8l^2r^3R+16r^5R-4l^4R^2-\right.$$
$$\left.80l^2r^2R^2+100r^4R^2-112l^2rR^3+304r^3R^3-16l^2R^4+448r^2R^4+256rR^5\right)\Big)\Big/$$
$$\Big(\left(l^2-3r^2-12rR-12R^2\right)^2\left(l^2+r^2-4R^2\right)^2\Big)\Big)\Big\}$$

$$\Big\{\text{X27, CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER, X93, ISOGONAL CONJUGATE OF X(49)},$$

$$-\Big(\Big(4(l-r-2R)^2(l+r+2R)^2\left(l^{10}+5l^8r^2+10l^6r^4+10l^4r^6+5l^2r^8+r^{10}-12l^8rR-\right.$$
$$16l^6r^3R+24l^4r^5R+48l^2r^7R+20r^9R-13l^8R^2+32l^6r^2R^2-114l^4r^4R^2+$$
$$264l^2r^6R^2+167r^8R^2+96l^6rR^3-400l^4r^3R^3+1024l^2r^5R^3+752r^7R^3+53l^6R^4-$$
$$493l^4r^2R^4+2439l^2r^4R^4+1961r^6R^4-260l^4rR^5+3112l^2r^3R^5+2924r^5R^5-109l^4R^6+$$
$$\left.1842l^2r^2R^6+2207r^4R^6+360l^2rR^7+440r^3R^7+56l^2R^8-292r^2R^8-80rR^9-9R^{10}\right)\Big)\Big/$$
$$\Big(\left(l^2-3r^2-12rR-12R^2\right)^2\left(l^4+2l^2r^2+r^4-8l^2rR+8r^3R-8l^2R^2+24r^2R^2+32rR^3+13R^4\right)^2\Big)\Big)\Big\}$$

$$\Big\{\text{X27, CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER, X94, ISOGONAL CONJUGATE OF X(50)},$$

$$-\Big(\Big(4\left(l^{14}+3l^{12}r^2+l^{10}r^4-5l^8r^6-5l^6r^8+l^4r^{10}+3l^2r^{12}+r^{14}-20l^{12}rR-24l^{10}r^3R+4l^8r^5R-\right.$$
$$16l^6r^7R-12l^4r^9R+40l^2r^{11}R+28r^{13}R-28l^{12}R^2+134l^{10}r^2R^2-98l^8r^4R^2+$$
$$380l^6r^6R^2-480l^4r^8R^2+254l^2r^{10}R^2+350r^{12}R^2+440l^{10}rR^3-976l^8r^3R^3+$$
$$2832l^6r^5R^3-4224l^4r^7R^3+1272l^2r^9R^3+2576r^{11}R^3+293l^{10}R^4-2903l^8r^2R^4+$$
$$8726l^6r^4R^4-18002l^4r^6R^4+6021l^2r^8R^4+12393r^{10}R^4-3436l^8rR^5+15360l^6r^3R^5-$$
$$43720l^4r^5R^5+22656l^2r^7R^5+40884r^9R^5-1434l^8R^6+17030l^6r^2R^6-64046l^4r^4R^6+$$
$$57978l^2r^6R^6+94280r^8R^6+11208l^6rR^7-57968l^4r^3R^7+94856l^2r^5R^7+$$
$$151808r^7R^7+3312l^6R^8-33480l^4r^2R^8+94504l^2r^4R^8+167056r^6R^8-12960l^4rR^9+$$
$$\left.52032l^2r^3R^9+119488r^5R^9-2916l^4R^{10}+12096l^2r^2R^{10}+49920r^4R^{10}+9216r^3R^{11}\right)\Big)\Big/$$
$$\Big(\left(l^2-3r^2-12rR-12R^2\right)^2\left(l^4+2l^2r^2+r^4-8l^2rR+8r^3R-12l^2R^2+28r^2R^2+48rR^3+27R^4\right)^2\Big)\Big)\Big\}$$

$$\{X27,\ \text{CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER},$$
$$X95,\ \text{CEVAPOINT OF CENTROID AND CIRCUMCENTER},$$
$$-\Big(\Big(4\,\big(l^{14}+27\,l^{12}r^2+169\,l^{10}r^4+107\,l^8r^6-181\,l^6r^8-135\,l^4r^{10}+11\,l^2r^{12}+r^{14}-20\,l^{12}r\,R-$$
$$248\,l^{10}r^3R+516\,l^8r^5R-1232\,l^6r^7R-1804\,l^4r^9R+200\,l^2r^{11}R+28\,r^{13}R-12\,l^{12}R^2+$$
$$4\,l^{10}r^2R^2+344\,l^8r^4R^2-2280\,l^6r^6R^2-10\,540\,l^4r^8R^2+1636\,l^2r^{10}R^2+352\,r^{12}R^2+$$
$$160\,l^{10}r\,R^3-832\,l^8r^3R^3+2368\,l^6r^5R^3-35\,328\,l^4r^7R^3+7968\,l^2r^9R^3+2624\,r^{11}R^3+$$
$$32\,l^{10}R^4-1216\,l^8r^2R^4+13\,024\,l^6r^4R^4-74\,656\,l^4r^6R^4+25\,856\,l^2r^8R^4+12\,896\,r^{10}R^4+$$
$$14\,080\,l^6r^3R^5-102\,016\,l^4r^5R^5+59\,392\,l^2r^7R^5+43\,904\,r^9R^5+64\,l^8R^6+2688\,l^6r^2R^6-$$
$$86\,976\,l^4r^4R^6+99\,840\,l^2r^6R^6+105\,728\,r^8R^6-2048\,l^6r\,R^7-39\,424\,l^4r^3R^7+123\,392\,l^2r^5R^7+$$
$$180\,224\,r^7R^7-256\,l^6R^8-3328\,l^4r^2R^8+107\,776\,l^2r^4R^8+213\,248\,r^6R^8+3072\,l^4r\,R^9+$$
$$59\,392\,l^2r^3R^9+166\,912\,r^5R^9+15\,360\,l^2r^2R^{10}+77\,824\,r^4R^{10}+16\,384\,r^3R^{11}\big)\Big)\Big/$$
$$\Big(\big(l^2-3\,r^2-12\,r\,R-12\,R^2\big)^2\,\big(l^4+18\,l^2r^2+r^4-8\,l^2r\,R+8\,r^3R-4\,l^2R^2+20\,r^2R^2+16\,r\,R^3\big)^2\Big)\Big)\}$$

$$\{X27,\ \text{CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER},\ X96,\ \text{ISOGONAL CONJUGATE OF X(52)},$$
$$\big(4\,\big(6\,l^{12}r^2-80\,l^{10}r^4-58\,l^8r^6+112\,l^6r^8+50\,l^4r^{10}-32\,l^2r^{12}+2\,r^{14}-8\,l^{12}r\,R+96\,l^{10}r^3R-504\,l^8r^5R+$$
$$960\,l^6r^7R+840\,l^4r^9R-672\,l^2r^{11}R+56\,r^{13}R-9\,l^{12}R^2+270\,l^{10}r^2R^2-1427\,l^8r^4R^2+2596\,l^6r^6R^2+$$
$$6449\,l^4r^8R^2-6354\,l^2r^{10}R^2+715\,r^{12}R^2+136\,l^{10}r\,R^3-1880\,l^8r^3R^3+464\,l^6r^5R^3+29\,776\,l^4r^7R^3-$$
$$35\,800\,l^2r^9R^3+5512\,r^{11}R^3-216\,l^8r^2R^4-11\,040\,l^6r^4R^4+90\,384\,l^4r^6R^4-133\,856\,l^2r^8R^4+$$
$$28\,616\,r^{10}R^4+1184\,l^8r\,R^5-24\,640\,l^6r^3R^5+184\,832\,l^4r^5R^5-349\,376\,l^2r^7R^5+105\,568\,r^9R^5+$$
$$608\,l^8R^6-25\,856\,l^6r^2R^6+253\,552\,l^4r^4R^6-650\,592\,l^2r^6R^6+284\,368\,r^8R^6-14\,016\,l^6r\,R^7+$$
$$228\,864\,l^4r^3R^7-866\,624\,l^2r^5R^7+565\,504\,r^7R^7-3136\,l^6R^8+131\,136\,l^4r^2R^8-815\,168\,l^2r^4R^8+$$
$$829\,504\,r^6R^8+43\,776\,l^4r\,R^9-526\,336\,l^2r^3R^9+887\,552\,r^5R^9+6544\,l^4R^{10}-221\,984\,l^2r^2R^{10}+$$
$$678\,032\,r^4R^{10}-55\,424\,l^2r\,R^{11}+357\,504\,r^3R^{11}-6272\,l^2R^{12}+123\,264\,r^2R^{12}+25\,088\,r\,R^{13}+2304\,R^{14}\big)\big)\Big/$$
$$\Big(\big(l^2-3\,r^2-12\,r\,R-12\,R^2\big)^2\,\big(l^4-14\,l^2r^2+r^4-8\,l^2r\,R+8\,r^3R+16\,r^2R^2-4\,R^4\big)^2\Big)\}$$

$$\{X27,\ \text{CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER},\ X97,\ \text{ISOGONAL CONJUGATE OF X(53)},$$
$$-\Big(\big(3\,l^{14}-29\,l^{12}r^2+51\,l^{10}r^4+107\,l^8r^6-63\,l^6r^8-79\,l^4r^{10}+9\,l^2r^{12}+r^{14}-52\,l^{12}r\,R+216\,l^{10}r^3R+$$
$$516\,l^8r^5R-752\,l^6r^7R-876\,l^4r^9R+152\,l^2r^{11}R+28\,r^{13}R-52\,l^{12}R^2+552\,l^{10}r^2R^2+$$
$$568\,l^8r^4R^2-3632\,l^6r^6R^2-3844\,l^4r^8R^2+1128\,l^2r^{10}R^2+352\,r^{12}R^2+688\,l^{10}r\,R^3-$$
$$960\,l^8r^3R^3-8736\,l^6r^5R^3-7936\,l^4r^7R^3+4848\,l^2r^9R^3+2624\,r^{11}R^3+368\,l^{10}R^4-$$
$$3200\,l^8r^2R^4-9952\,l^6r^4R^4-5728\,l^4r^6R^4+13\,552\,l^2r^8R^4+12\,896\,r^{10}R^4-3456\,l^8r\,R^5-$$
$$1792\,l^6r^3R^5+5376\,l^4r^5R^5+26\,880\,l^2r^7R^5+43\,904\,r^9R^5-1360\,l^8R^6+7776\,l^6r^2R^6+$$
$$9776\,l^4r^4R^6+41\,664\,l^2r^6R^6+105\,728\,r^8R^6+8064\,l^6r\,R^7-1664\,l^4r^3R^7+54\,016\,l^2r^5R^7+$$
$$180\,224\,r^7R^7+2688\,l^6R^8-10\,880\,l^4r^2R^8+55\,296\,l^2r^4R^8+213\,248\,r^6R^8-7680\,l^4r\,R^9+$$
$$36\,864\,l^2r^3R^9+166\,912\,r^5R^9-2304\,l^4R^{10}+11\,264\,l^2r^2R^{10}+77\,824\,r^4R^{10}+16\,384\,r^3R^{11}\big)\Big/$$
$$\Big(\big(l^2-3\,r^2-12\,r\,R-12\,R^2\big)^2\,\big(l^4-6\,l^2r^2+r^4-8\,l^2r\,R+8\,r^3R-7\,l^2R^2+23\,r^2R^2+28\,r\,R^3+12\,R^4\big)^2\Big)\Big)\}$$

$$\{X27,\ \text{CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER},\ X98,\ \text{TarryPoint},$$
$$\big(4\,\big(6\,l^8r^2+4\,l^6r^4-8\,l^4r^6-4\,l^2r^8+2\,r^{10}-8\,l^8r\,R+32\,l^6r^3R-64\,l^4r^5R-64\,l^2r^7R+40\,r^9R-7\,l^8R^2+$$
$$60\,l^6r^2R^2-138\,l^4r^4R^2-436\,l^2r^6R^2+345\,r^8R^2+48\,l^6r\,R^3+48\,l^4r^3R^3-1648\,l^2r^5R^3+$$
$$1680\,r^7R^3-8\,l^6R^4+472\,l^4r^2R^4-3736\,l^2r^4R^4+5064\,r^6R^4+480\,l^4r\,R^5-5056\,l^2r^3R^5+$$
$$9696\,r^5R^5+144\,l^4R^6-3744\,l^2r^2R^6+11\,536\,r^4R^6-1152\,l^2r\,R^7+7808\,r^3R^7+2304\,r^2R^8\big)\big)\Big/$$
$$\Big(\big(l^2-3\,r^2-12\,r\,R-12\,R^2\big)^2\,\big(l^4-14\,l^2r^2+r^4-8\,l^2r\,R+8\,r^3R+16\,r^2R^2\big)\Big)\}$$

$$\{X27,\ \text{CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER},\ X99,\ \text{STEINER POINT},$$
$$-\Big(\big(4\,\big(l^2+r^2+2\,r\,R\big)^2\,\big(l^6-9\,l^4r^2+7\,l^2r^4+r^6-16\,l^4r\,R+32\,l^2r^3R+16\,r^5R-4\,l^4R^2+$$
$$48\,l^2r^2R^2+100\,r^4R^2+16\,l^2r\,R^3+304\,r^3R^3-16\,l^2R^4+448\,r^2R^4+256\,r\,R^5\big)\big)\Big/$$
$$\Big(\big(l^2-3\,r^2-12\,r\,R-12\,R^2\big)^2\,\big(l^4-14\,l^2r^2+r^4-8\,l^2r\,R+8\,r^3R+16\,r^2R^2\big)\Big)\Big)\}$$

$$\{X27,\ \text{CEVAPOINT OF ORTHOCENTER AND CLAWSON CENTER},\ X100,\ \text{ANTICOMPLEMENT OF FEUERBACH POINT},$$
$$\big(4\,\big(-l^6r-l^4r^3+l^2r^5+r^7+l^6R-6\,l^4r^2R+9\,l^2r^4R+16\,r^6R-8\,l^4r\,R^2+24\,l^2r^3R^2+104\,r^5R^2-$$
$$4\,l^4R^3+16\,l^2r^2R^3+352\,r^4R^3-16\,l^2r\,R^4+656\,r^3R^4-16\,l^2R^5+640\,r^2R^5+256\,r\,R^6\big)\big)\Big/$$
$$\Big((2\,r-R)\,\big(-l^2+3\,r^2+12\,r\,R+12\,R^2\big)^2\Big)\}$$

$$\left\{X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),\ X29,\ \text{CEVAPOINT OF INCENTER AND ORTHOCENTER},\ -\frac{(l-r-2R)^2\,(l+r+2R)^2\,\left(l^2+r^2+2rR\right)^2\left(2l^2-2r^2-8rR-9R^2\right)}{\left(3l^2-r^2-8rR-12R^2\right)^2\left(l^2-r^2-5rR-6R^2\right)^2}\right\}$$

$$\left\{X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),\ X30,\ \text{EulerInfinityPoint},\ \infty\right\}$$

$$\left\{X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),\ X31,\ \text{SecondPowerPoint},\ -\left(\left(R\left(l^8 r-2l^6r^3-4l^4r^5+2l^2r^7+3r^9+l^8R-11l^6r^2R-3l^4r^4R+31l^2r^6R+22r^8R-24l^6rR^2+44l^4r^3R^2+112l^2r^5R^2+44r^7R^2-4l^6R^3+84l^4r^2R^3+124l^2r^4R^3-28r^6R^3+64l^4rR^4+16l^2r^3R^4-176r^5R^4-144r^4R^5\right)\right)\Big/\left(\left(l^2-3r^2-6rR\right)^2\left(l^2-r^2-5rR-6R^2\right)^2\right)\right)\right\}$$

$$\left\{X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),\ X32,\ \text{ThirdPowerPoint},\ -\left(\left(R\left(l^{12}r-6l^{10}r^3-l^8r^5+12l^6r^7-l^4r^9-6l^2r^{11}+r^{13}+l^{12}R-17l^{10}r^2R+34l^8r^4R+110l^6r^6R-59l^4r^8R-93l^2r^{10}R+24r^{12}R-28l^{10}rR^2+104l^8r^3R^2+312l^6r^5R^2-512l^4r^7R^2-572l^2r^9R^2+248r^{11}R^2-4l^{10}R^3+176l^8r^2R^3+356l^6r^4R^3-1912l^4r^6R^3-1736l^2r^8R^3+1440r^{10}R^3+80l^8rR^4-16l^6r^3R^4-3552l^4r^5R^4-2480l^2r^7R^4+5136r^9R^4-208l^6r^2R^5-3104l^4r^4R^5-656l^2r^6R^5+11520r^8R^5-896l^4r^3R^6+2176l^2r^5R^6+15872r^7R^6+1792l^2r^4R^7+12288r^6R^7+4096r^5R^8\right)\right)\Big/\left(\left(l^2-2lr-r^2-4rR\right)^2\left(l^2+2lr-r^2-4rR\right)^2\left(l^2-r^2-5rR-6R^2\right)^2\right)\right)\right\}$$

$$\left\{X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),\ X33,\ \text{PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES},\ -\left(\left((l-r-2R)^2R\,(l+r+2R)^2\left(5l^4r-4l^2r^3-r^5+l^4R-21l^2r^2R-10r^4R-40l^2rR^2-8r^3R^2-4l^2R^3+44r^2R^3+64rR^4\right)\right)\Big/\left(\left(l^2-r^2-5rR-6R^2\right)^2\left(l^2-r^2-2rR-4R^2\right)^2\right)\right)\right\}$$

$$\left\{X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),\ X34,\ X(4)\text{-BETH CONJUGATE OF } X(4),\ -\left(\left((l-r-2R)^2R\,(l+r+2R)^2\left(l^4r-4l^2r^3+3r^5+l^4R-9l^2r^2R+18r^4R-24l^2rR^2+48r^3R^2-4l^2R^3+76r^2R^3+64rR^4\right)\right)\Big/\left(\left(l^2-r^2-5rR-6R^2\right)^2\left(l^2-r^2-6rR-4R^2\right)^2\right)\right)\right\}$$

$$\left\{X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),\ X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),\ \left(R^2\left(-2l^4r^2-8l^2r^4+10r^6-7l^4rR-22l^2r^3R+81r^5R-l^4R^2+11l^2r^2R^2+240r^4R^2+48l^2rR^3+292r^3R^3+4l^2R^4+80r^2R^4-64rR^5\right)\right)\Big/\left((2r+R)^2\left(-l^2+r^2+5rR+6R^2\right)^2\right)\right\}$$

$$\left\{X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),\ X36,\ \text{INVERSE-IN-CIRCUMCIRCLE OF INCENTER},\ \frac{R^2\left(l^4r-4l^2r^3+3r^5+l^4R-19l^2r^2R+24r^4R-24l^2rR^2+76r^3R^2-4l^2R^3+112r^2R^3+64rR^4\right)}{(2r-R)\left(-l^2+r^2+5rR+6R^2\right)^2}\right\}$$

$$\left\{X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),\ X37,\ \text{CrosspointOfIncenterAndCentroid},\ -\frac{1}{\left(l^2+r^2+4rR\right)^2\left(l^2-r^2-5rR-6R^2\right)^2}R\left(5l^8r-12l^6r^3+10l^4r^5-4l^2r^7+r^9+l^8R-39l^6r^2R+71l^4r^4R-49l^2r^6R+16r^8R-44l^6rR^2+184l^4r^3R^2-236l^2r^5R^2+104r^7R^2-4l^6R^3+200l^4r^2R^3-552l^2r^4R^3+352r^6R^3+80l^4rR^4-624l^2r^3R^4+656r^5R^4-272l^2r^2R^5+640r^4R^5+256r^3R^6\right)\right\}$$

$$\left\{X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),\ X38,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(75),\ -\frac{1}{\left(l^2+r^2-2rR\right)^2\left(l^2-r^2-5rR-6R^2\right)^2}R\left(5l^8r-26l^6r^3+44l^4r^5-38l^2r^7+15r^9+l^8R-87l^6r^2R+345l^4r^4R-437l^2r^6R+218r^8R-56l^6rR^2+844l^4r^3R^2-1968l^2r^5R^2+1356r^7R^2-4l^6R^3+692l^4r^2R^3-4212l^2r^4R^3+4596r^6R^3+128l^4rR^4-4080l^2r^3R^4+8912r^5R^4-1280l^2r^2R^5+9328r^4R^5+4096r^3R^6\right)\right\}$$

$$\{X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),\ X39,\ \text{BrocardMidpoint},$$
$$-\Big(\Big(R\,\big(l^{12} r + 2 l^{10} r^3 - l^8 r^5 - 4 l^6 r^7 - l^4 r^9 + 2 l^2 r^{11} + r^{13} + l^{12} R - l^{10} r^2 R - 70 l^8 r^4 R + 102 l^6 r^6 R - 83 l^4 r^8 R + 27 l^2 r^{10} R + 24 r^{12} R - 28 l^{10} r R^2 - 136 l^8 r^3 R^2 + 744 l^6 r^5 R^2 - 784 l^4 r^7 R^2 + 148 l^2 r^9 R^2 + 248 r^{11} R^2 - 4 l^{10} R^3 + 112 l^8 r^2 R^3 + 1412 l^6 r^4 R^3 - 3064 l^4 r^6 R^3 + 472 l^2 r^8 R^3 + 1440 r^{10} R^3 + 80 l^8 r R^4 + 560 l^6 r^3 R^4 - 5728 l^4 r^5 R^4 + 1168 l^2 r^7 R^4 + 5136 r^9 R^4 - 208 l^6 r^2 R^5 - 4640 l^4 r^4 R^5 + 2416 l^2 r^6 R^5 + 11520 r^8 R^5 - 896 l^4 r^3 R^6 + 3200 l^2 r^5 R^6 + 15872 r^7 R^6 + 1792 l^2 r^4 R^7 + 12288 r^6 R^7 + 4096 r^5 R^8\big)\Big) \Big/ \Big(\big(l^2 - r^2 - 5 r R - 6 R^2\big)^2 \big(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\big)^2\Big)\Big)\}$$

$$\{X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),\ X40,$$
$$\text{BEVAN POINT},\ -\frac{1}{\big(l^2 - r^2 - 5 r R - 6 R^2\big)^2} R\,\big(l^4 r - 4 l^2 r^3 + 3 r^5 - 3 l^4 R - 9 l^2 r^2 R + 22 r^4 R + 20 l^2 r R^2 + 44 r^3 R^2 + 44 l^2 R^3 - 28 r^2 R^3 - 176 r R^4 - 144 R^5\big)\}$$

$$\{X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),\ X41,\ X(6)\text{-CEVA CONJUGATE OF } X(31),$$
$$-\frac{1}{\big(l^2 - r^2 - 5 r R - 6 R^2\big)^2 \big(3 l^2 r - r^3 + 2 l^2 R - 8 r^2 R - 16 r R^2\big)^2}$$
$$R\,\big(3 l^8 r^3 + 2 l^6 r^5 - 4 l^4 r^7 - 2 l^2 r^9 + r^{11} + 9 l^8 r^2 R + 7 l^6 r^4 R - 53 l^4 r^6 R - 27 l^2 r^8 R + 24 r^{10} R + 8 l^8 r R^2 - 16 l^6 r^3 R^2 - 272 l^4 r^5 R^2 - 128 l^2 r^7 R^2 + 248 r^9 R^2 + 4 l^8 R^3 - 48 l^6 r^2 R^3 - 708 l^4 r^4 R^3 - 176 l^2 r^6 R^3 + 1440 r^8 R^3 - 80 l^6 r R^4 - 928 l^4 r^3 R^4 + 544 l^2 r^5 R^4 + 5136 r^7 R^4 - 16 l^6 R^5 - 432 l^4 r^2 R^5 + 2416 l^2 r^4 R^5 + 11520 r^6 R^5 + 128 l^4 r R^6 + 3456 l^2 r^3 R^6 + 15872 r^5 R^6 + 1792 l^2 r^2 R^7 + 12288 r^4 R^7 + 4096 r^3 R^8\big)\}$$

$$\{X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),\ X42,\ \text{CROSSPOINT OF INCENTER AND SYMMEDIAN POINT},$$
$$-\Big(\Big(R\,\big(l^8 r + 2 l^6 r^3 - 2 l^2 r^7 - r^9 + l^8 R + 13 l^6 r^2 R - 39 l^4 r^4 R - l^2 r^6 R - 14 r^8 R - 16 l^6 r R^2 - 148 l^4 r^3 R^2 + 32 l^2 r^5 R^2 - 28 r^7 R^2 - 4 l^6 R^3 - 156 l^4 r^2 R^3 + 172 l^2 r^4 R^3 + 212 r^6 R^3 + 32 l^4 r R^4 + 464 l^2 r^3 R^4 + 1072 r^5 R^4 + 448 l^2 r^2 R^5 + 1776 r^4 R^5 + 1024 r^3 R^6\big)\Big) \Big/ \Big(\big(l^2 + r^2 - 2 r R\big)^2 \big(l^2 - r^2 - 5 r R - 6 R^2\big)^2\Big)\Big)\}$$

$$\{X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),\ X43,$$
$$X(6)\text{-CEVA CONJUGATE OF } X(1),\ \frac{1}{\big(l^2 + r^2 - 8 r R\big)^2 \big(l^2 - r^2 - 5 r R - 6 R^2\big)^2}$$
$$R\,\big(l^8 r - 2 l^6 r^3 - 4 l^4 r^5 + 2 l^2 r^7 + 3 r^9 - l^8 R - 39 l^6 r^2 R + 85 l^4 r^4 R - 69 l^2 r^6 R + 64 r^8 R + 8 l^6 r R^2 + 284 l^4 r^3 R^2 - 400 l^2 r^5 R^2 + 348 r^7 R^2 + 4 l^6 R^3 + 232 l^4 r^2 R^3 - 828 l^2 r^4 R^3 + 672 r^6 R^3 - 32 l^4 r R^4 - 864 l^2 r^3 R^4 + 64 r^5 R^4 - 448 l^2 r^2 R^5 - 1216 r^4 R^5 - 1024 r^3 R^6\big)\}$$

$$\{X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),\ X44,$$
$$X(6)\text{-LINE CONJUGATE OF } X(1),\ \frac{1}{\big(l^2 - 3 r^2 - 12 r R\big)^2 \big(l^2 - r^2 - 5 r R - 6 R^2\big)^2}$$
$$R\,\big(3 l^8 r + 4 l^6 r^3 - 10 l^4 r^5 + 12 l^2 r^7 - 9 r^9 - l^8 R - 73 l^6 r^2 R + 33 l^4 r^4 R + 105 l^2 r^6 R - 144 r^8 R - 4 l^6 r R^2 + 296 l^4 r^3 R^2 + 300 l^2 r^5 R^2 - 936 r^7 R^2 + 4 l^6 R^3 + 408 l^4 r^2 R^3 + 168 l^2 r^4 R^3 - 3168 r^6 R^3 - 16 l^4 r R^4 - 528 l^2 r^3 R^4 - 5904 r^5 R^4 - 624 l^2 r^2 R^5 - 5760 r^4 R^5 - 2304 r^3 R^6\big)\}$$

$$\{X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),\ X45,$$
$$X(9)\text{-BETH CONJUGATE OF } X(1),\ -\frac{1}{\big(l^2 + 3 r^2 + 12 r R\big)^2 \big(l^2 - r^2 - 5 r R - 6 R^2\big)^2}$$
$$R\,\big(9 l^8 r - 40 l^6 r^3 + 46 l^4 r^5 - 24 l^2 r^7 + 9 r^9 + l^8 R - 47 l^6 r^2 R + 255 l^4 r^4 R - 273 l^2 r^6 R + 144 r^8 R - 68 l^6 r R^2 + 472 l^4 r^3 R^2 - 1212 l^2 r^5 R^2 + 936 r^7 R^2 - 4 l^6 R^3 + 312 l^4 r^2 R^3 - 2568 l^2 r^4 R^3 + 3168 r^6 R^3 + 112 l^4 r R^4 - 2544 l^2 r^3 R^4 + 5904 r^5 R^4 - 912 l^2 r^2 R^5 + 5760 r^4 R^5 + 2304 r^3 R^6\big)\}$$

$$\{X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),\ X46,$$
$$X(4)\text{-CEVA CONJUGATE OF } X(1),\ -\Big(\Big(R\,\big(l^4 r^3 - 4 l^2 r^5 + 3 r^7 + l^4 r^2 R - 17 l^2 r^4 R + 26 r^6 R + l^4 r R^2 - 24 l^2 r^3 R^2 + 87 r^5 R^2 + l^4 R^3 - 23 l^2 r^2 R^3 + 144 r^4 R^3 - 24 l^2 r R^4 + 140 r^3 R^4 - 4 l^2 R^5 + 112 r^2 R^5 + 64 r R^6\big)\Big) \Big/ \Big((r - R)^2 \big(-l^2 + r^2 + 5 r R + 6 R^2\big)^2\Big)\Big)\}$$

$$\Big\{X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),\ X47,$$
$$X(110)\text{-BETH CONJUGATE OF } X(34),\ -\frac{1}{\left(l^2-r^2-5\,r\,R-6\,R^2\right)^2\left(l^2-3\,r^2-6\,r\,R-2\,R^2\right)^2}$$
$$R\left(l^8\,r-2\,l^6\,r^3-4\,l^4\,r^5+2\,l^2\,r^7+3\,r^9+l^8\,R-11\,l^6\,r^2\,R-3\,l^4\,r^4\,R+31\,l^2\,r^6\,R+22\,r^8\,R-32\,l^6\,r\,R^2+52\,l^4\,r^3\,R^2+120\,l^2\,r^5\,R^2+36\,r^7\,R^2-8\,l^6\,R^3+168\,l^4\,r^2\,R^3+128\,l^2\,r^4\,R^3-112\,r^6\,R^3+188\,l^4\,r\,R^4-176\,l^2\,r^3\,R^4-492\,r^5\,R^4+20\,l^4\,R^5-524\,l^2\,r^2\,R^5-624\,r^4\,R^5-384\,l^2\,r\,R^6-112\,r^3\,R^6-16\,l^2\,R^7+384\,r^2\,R^7+256\,r\,R^8\right)\Big\}$$

$$\Big\{X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),\ X48,$$
$$\text{CROSSPOINT OF } X(1) \text{ AND } X(63),\ -\left(\left(R\left(l^2+r^2+4\,r\,R+4\,R^2\right)^2\left(3\,l^4\,r-4\,l^2\,r^3+r^5+l^4\,R-23\,l^2\,r^2\,R+12\,r^4\,R-32\,l^2\,r\,R^2+52\,r^3\,R^2-4\,l^2\,R^3+96\,r^2\,R^3+64\,r\,R^4\right)\right)\Big/\left(\left(3\,l^2-r^2-6\,r\,R-8\,R^2\right)^2\left(l^2-r^2-5\,r\,R-6\,R^2\right)^2\right)\right)\Big\}$$

$$\Big\{X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),\ X49,$$
$$\text{CENTER OF SINE-TRIPLE-ANGLE CIRCLE},\ -\frac{1}{\left(2\,l^2-2\,r^2-8\,r\,R-7\,R^2\right)^2\left(l^2-r^2-5\,r\,R-6\,R^2\right)^2}$$
$$R\left(2\,l^8\,r-4\,l^4\,r^5+2\,r^9+l^8\,R-10\,l^6\,r^2\,R-28\,l^4\,r^4\,R+10\,l^2\,r^6\,R+27\,r^8\,R-29\,l^6\,r\,R^2-53\,l^4\,r^3\,R^2+93\,l^2\,r^5\,R^2+149\,r^7\,R^2-6\,l^6\,R^3+10\,l^4\,r^2\,R^3+326\,l^2\,r^4\,R^3+422\,r^6\,R^3+78\,l^4\,r\,R^4+516\,l^2\,r^3\,R^4+606\,r^5\,R^4+8\,l^4\,R^5+328\,l^2\,r^2\,R^5+272\,r^4\,R^5+36\,l^2\,r\,R^6-356\,r^3\,R^6+8\,l^2\,R^7-505\,r^2\,R^7-212\,r\,R^8-36\,R^9\right)\Big\}$$

$$\Big\{X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),\ X50,\ X(74)\text{-CEVA CONJUGATE OF } X(184),$$
$$-\left(\left(R\left(l^{12}\,r-6\,l^{10}\,r^3-l^8\,r^5+12\,l^6\,r^7-l^4\,r^9-6\,l^2\,r^{11}+r^{13}+l^{12}\,R-17\,l^{10}\,r^2\,R+34\,l^8\,r^4\,R+110\,l^6\,r^6\,R-59\,l^4\,r^8\,R-93\,l^2\,r^{10}\,R+24\,r^{12}\,R-34\,l^{10}\,r\,R^2+122\,l^8\,r^3\,R^2+336\,l^6\,r^5\,R^2-536\,l^4\,r^7\,R^2-590\,l^2\,r^9\,R^2+254\,r^{11}\,R^2-10\,l^{10}\,R^3+224\,l^8\,r^2\,R^3+428\,l^6\,r^4\,R^3-2200\,l^4\,r^6\,R^3-1922\,l^2\,r^8\,R^3+1560\,r^{10}\,R^3+233\,l^8\,r\,R^4+56\,l^6\,r^3\,R^4-4962\,l^4\,r^5\,R^4-3080\,l^2\,r^7\,R^4+6153\,r^9\,R^4+33\,l^8\,R^5-559\,l^6\,r^2\,R^5-6353\,l^4\,r^4\,R^5-689\,l^2\,r^6\,R^5+16\,272\,r^8\,R^5-564\,l^6\,r\,R^6-4136\,l^4\,r^3\,R^6+6148\,l^2\,r^5\,R^6+29\,192\,r^7\,R^6-36\,l^6\,R^7-648\,l^4\,r^2\,R^7+10\,840\,l^2\,r^4\,R^7+35\,040\,r^6\,R^7+432\,l^4\,r\,R^8+7824\,l^2\,r^3\,R^8+26\,896\,r^5\,R^8+2160\,l^2\,r^2\,R^9+11\,904\,r^4\,R^9+2304\,r^3\,R^{10}\right)\right)\Big/\left(\left(l^2-r^2-5\,r\,R-6\,R^2\right)^2\left(l^4-6\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-3\,l^2\,R^2+19\,r^2\,R^2+12\,r\,R^3\right)^2\right)\right)\Big\}$$

$$\Big\{X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),\ X51,\ \text{CENTROID OF ORTHIC TRIANGLE},$$
$$\left(-l^8-16\,l^6\,r^2+34\,l^4\,r^4-16\,l^2\,r^6-r^8+12\,l^6\,r\,R+140\,l^4\,r^3\,R-140\,l^2\,r^5\,R-12\,r^7\,R+4\,l^6\,R^2+137\,l^4\,r^2\,R^2-474\,l^2\,r^4\,R^2-47\,r^6\,R^2-32\,l^4\,r\,R^3-728\,l^2\,r^3\,R^3-56\,r^5\,R^3-424\,l^2\,r^2\,R^4+72\,r^4\,R^4+224\,r^3\,R^5+144\,r^2\,R^6\right)\Big/\left(36\,R^2\left(-l^2+r^2+5\,r\,R+6\,R^2\right)^2\right)\Big\}$$

$$\Big\{X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),\ X52,$$
$$\text{ORTHOCENTER OF ORTHIC TRIANGLE},\ \frac{1}{4\,R^2\left(-l^2+r^2+5\,r\,R+6\,R^2\right)^2}$$
$$\left(l^8-16\,l^6\,r^2+30\,l^4\,r^4-16\,l^2\,r^6+r^8-20\,l^6\,r\,R+172\,l^4\,r^3\,R-172\,l^2\,r^5\,R+20\,r^7\,R-16\,l^6\,R^2+323\,l^4\,r^2\,R^2-730\,l^2\,r^4\,R^2+163\,r^6\,R^2+232\,l^4\,r\,R^3-1528\,l^2\,r^3\,R^3+704\,r^5\,R^3+84\,l^4\,R^4-1612\,l^2\,r^2\,R^4+1752\,r^4\,R^4-800\,l^2\,r\,R^5+2544\,r^3\,R^5-176\,l^2\,R^6+2068\,r^2\,R^6+848\,r\,R^7+144\,R^8\right)\Big\}$$

$$\Big\{X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),\ X53,\ \text{SYMMEDIAN POINT OF ORTHIC TRIANGLE},$$
$$\left(\left(1-r-2\,R\right)^2\left(1+r+2\,R\right)^2\left(4\,l^8\,r^2-28\,l^6\,r^4+28\,l^4\,r^6-4\,l^2\,r^8-l^8\,r\,R-36\,l^6\,r^3\,R+122\,l^4\,r^5\,R-36\,l^2\,r^7\,R-r^9\,R-l^8\,R^2-17\,l^6\,r^2\,R^2+201\,l^4\,r^4\,R^2-119\,l^2\,r^6\,R^2-16\,r^8\,R^2+20\,l^6\,r\,R^3+152\,l^4\,r^3\,R^3-212\,l^2\,r^5\,R^3-104\,r^7\,R^3+4\,l^6\,R^4+40\,l^4\,r^2\,R^4-312\,l^2\,r^4\,R^4-352\,r^6\,R^4-48\,l^4\,r\,R^5-400\,l^2\,r^3\,R^5-656\,r^5\,R^5-240\,l^2\,r^2\,R^6-640\,r^4\,R^6-256\,r^3\,R^7\right)\right)\Big/\left(\left(l^2-r^2-5\,r\,R-6\,R^2\right)^2\left(l^4-6\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-4\,l^2\,R^2+20\,r^2\,R^2+16\,r\,R^3\right)^2\right)\Big\}$$

$$\left\{X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),\ X54,\ \text{KosnitaPoint},\ -\frac{1}{\left(l^2-r^2-5\,r\,R-6\,R^2\right)^2\left(2\,l^2-2\,r^2-8\,r\,R-5\,R^2\right)^2}\right.$$
$$R\left(2\,l^8\,r-4\,l^4\,r^5+2\,r^9+2\,l^8\,R-10\,l^6\,r^2\,R-30\,l^4\,r^4\,R+10\,l^2\,r^6\,R+28\,r^8\,R-37\,l^6\,r\,R^2-61\,l^4\,r^3\,R^2+101\,l^2\,r^5\,R^2+157\,r^7\,R^2-10\,l^6\,R^3-3\,l^4\,r^2\,R^3+392\,l^2\,r^4\,R^3+433\,r^6\,R^3+62\,l^4\,r\,R^4+732\,l^2\,r^3\,R^4+518\,r^5\,R^4-9\,l^4\,R^5+682\,l^2\,r^2\,R^5-161\,r^4\,R^5+328\,l^2\,r\,R^6-1224\,r^3\,R^6+104\,l^2\,R^7-1416\,r^2\,R^7-704\,r\,R^8-144\,R^9\right)\Big\}$$

$$\left\{X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),\ X55,\ \text{INSIMILICENTER(CIRCUMCIRCLE, INCIRCLE)},\right.$$
$$\left(R^2\left(-l^4\,r^2-2\,l^2\,r^4+3\,r^6-5\,l^4\,r\,R-l^2\,r^3\,R+24\,r^5\,R-l^4\,R^2+25\,l^2\,r^2\,R^2+65\,r^4\,R^2+40\,l^2\,r\,R^3+52\,r^3\,R^3+4\,l^2\,R^4-44\,r^2\,R^4-64\,r\,R^5\right)\right)\Big/\left((r+R)^2\left(-l^2+r^2+5\,r\,R+6\,R^2\right)^2\right)\Big\}$$

$$\left\{X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),\ X56,\ \text{EXSIMILICENTER(CIRCUMCIRCLE, INCIRCLE)},\right.$$
$$\left(R^2\left(l^4\,r^2-2\,l^2\,r^4+r^6-l^4\,r\,R-7\,l^2\,r^3\,R+6\,r^5\,R-l^4\,R^2+5\,l^2\,r^2\,R^2+9\,r^4\,R^2+24\,l^2\,r\,R^3-20\,r^3\,R^3+4\,l^2\,R^4-76\,r^2\,R^4-64\,r\,R^5\right)\right)\Big/\left((r-R)^2\left(-l^2+r^2+5\,r\,R+6\,R^2\right)^2\right)\Big\}$$

$$\left\{X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),\ X57,\ \text{ISOGONAL CONJUGATE OF } X(9),\right.$$
$$-\left(\left(R\,(r+2\,R)^2\left(l^4\,r-4\,l^2\,r^3+3\,r^5+l^4\,R-9\,l^2\,r^2\,R+18\,r^4\,R-24\,l^2\,r\,R^2+48\,r^3\,R^2-4\,l^2\,R^3+76\,r^2\,R^3+64\,r\,R^4\right)\right)\Big/\left((r-2\,R)^2\left(-l^2+r^2+5\,r\,R+6\,R^2\right)^2\right)\right)\Big\}$$

$$\left\{X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),\ X58,\ \text{ISOGONAL CONJUGATE OF } X(10),\right.$$
$$-\left(\left(R\left(l^2+r^2+2\,r\,R\right)^2\left(l^4\,r-4\,l^2\,r^3+3\,r^5+l^4\,R-9\,l^2\,r^2\,R+18\,r^4\,R-24\,l^2\,r\,R^2+48\,r^3\,R^2-4\,l^2\,R^3+76\,r^2\,R^3+64\,r\,R^4\right)\right)\Big/\left(\left(l^2-3\,r^2-4\,r\,R\right)^2\left(l^2-r^2-5\,r\,R-6\,R^2\right)^2\right)\right)\Big\}$$

$$\left\{X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),\ X59,\ \text{ISOGONAL CONJUGATE OF } X(11),\right.$$
$$-\frac{1}{(2\,r-R)\left(-l^2+r^2+5\,r\,R+4\,R^2\right)^2\left(-l^2+r^2+5\,r\,R+6\,R^2\right)^2}$$
$$R\left(l^8\,r^2-2\,l^4\,r^6+r^{10}-6\,l^6\,r^3\,R-14\,l^4\,r^5\,R+6\,l^2\,r^7\,R+14\,r^9\,R-l^8\,R^2-18\,l^6\,r^2\,R^2-11\,l^4\,r^4\,R^2+60\,l^2\,r^6\,R^2+70\,r^8\,R^2+28\,l^6\,r\,R^3+30\,l^4\,r^3\,R^3+228\,l^2\,r^5\,R^3+114\,r^7\,R^3+12\,l^6\,R^4-95\,l^4\,r^2\,R^4+454\,l^2\,r^4\,R^4-235\,r^6\,R^4-288\,l^4\,r\,R^5+732\,l^2\,r^3\,R^5-1324\,r^5\,R^5-48\,l^4\,R^6+1168\,l^2\,r^2\,R^6-2492\,r^4\,R^6+960\,l^2\,r\,R^7-2784\,r^3\,R^7+64\,l^2\,R^8-2240\,r^2\,R^8-1024\,r\,R^9\right)\Big\}$$

$$\left\{X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),\ X60,\right.$$
$$\text{ISOGONAL CONJUGATE OF } X(12),\ -\left(\left(R\,(r+R)^2\left(l^2+r^2+2\,r\,R\right)^2\left(2\,l^4\,r-4\,l^2\,r^3+2\,r^5+l^4\,R-18\,l^2\,r^2\,R+17\,r^4\,R-28\,l^2\,r\,R^2+58\,r^3\,R^2-4\,l^2\,R^3+95\,r^2\,R^3+64\,r\,R^4\right)\right)\Big/\left(\left(l^2-r^2-5\,r\,R-6\,R^2\right)^2\left(2\,l^2\,r-2\,r^3+l^2\,R-7\,r^2\,R-7\,r\,R^2\right)^2\right)\right)\Big\}$$

$$\left\{X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),\ X61,\right.$$
$$\text{ISOGONAL CONJUGATE OF } X(17),\ -\frac{1}{\left(3\,l^2+2\sqrt{3}\,l\,r-3\,r^2-12\,r\,R\right)^2\left(l^2-r^2-5\,r\,R-6\,R^2\right)^2}$$
$$3\,R\left(3\,l^8\,r+2\sqrt{3}\,l^7\,r^2+2\sqrt{3}\,l^5\,r^4-6\,l^4\,r^5-2\sqrt{3}\,l^3\,r^6-2\sqrt{3}\,l\,r^8+3\,r^9+3\,l^8\,R+4\sqrt{3}\,l^7\,r\,R+3\,l^6\,r^2\,R-14\sqrt{3}\,l^5\,r^3\,R-67\,l^4\,r^4\,R-8\sqrt{3}\,l^3\,r^5\,R+13\,l^2\,r^6\,R-22\sqrt{3}\,l\,r^7\,R+48\,r^8\,R-60\,l^6\,r\,R^2-44\sqrt{3}\,l^5\,r^2\,R^2-184\,l^4\,r^3\,R^2+8\sqrt{3}\,l^3\,r^4\,R^2+140\,l^2\,r^5\,R^2-92\sqrt{3}\,l\,r^6\,R^2+312\,r^7\,R^2-12\,l^6\,R^3-16\sqrt{3}\,l^5\,r\,R^3-88\,l^4\,r^2\,R^3+72\sqrt{3}\,l^3\,r^3\,R^3+548\,l^2\,r^4\,R^3-184\sqrt{3}\,l\,r^5\,R^3+1056\,r^6\,R^3+144\,l^4\,r\,R^4+80\sqrt{3}\,l^3\,r^2\,R^4+928\,l^2\,r^3\,R^4-176\sqrt{3}\,l\,r^4\,R^4+1968\,r^5\,R^4+576\,l^2\,r^2\,R^5-64\sqrt{3}\,l\,r^3\,R^5+1920\,r^4\,R^5+768\,r^3\,R^6\right)\Big\}$$

$$\Big\{X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),\ X62,$$

$$\text{ISOGONAL CONJUGATE OF } X(18),\ -\frac{1}{\left(3\,l^2-2\sqrt{3}\,l\,r-3\,r^2-12\,r\,R\right)^2\left(l^2-r^2-5\,r\,R-6\,R^2\right)^2}$$

$$3\,R\left(3\,l^8\,r-2\sqrt{3}\,l^7\,r^2-2\sqrt{3}\,l^5\,r^4-6\,l^4\,r^5+2\sqrt{3}\,l^3\,r^6+2\sqrt{3}\,l\,r^8+3\,r^9+3\,l^8\,R-4\sqrt{3}\,l^7\,r\,R+3\,l^6\,r^2\,R+14\sqrt{3}\,l^5\,r^3\,R-67\,l^4\,r^4\,R+8\sqrt{3}\,l^3\,r^5\,R+13\,l^2\,r^6\,R+22\sqrt{3}\,l\,r^7\,R+48\,r^8\,R-60\,l^6\,r\,R^2+44\sqrt{3}\,l^5\,r^2\,R^2-184\,l^4\,r^3\,R^2-8\sqrt{3}\,l^3\,r^4\,R^2+140\,l^2\,r^5\,R^2+92\sqrt{3}\,l\,r^6\,R^2+312\,r^7\,R^2-12\,l^6\,R^3+16\sqrt{3}\,l^5\,r\,R^3-88\,l^4\,r^2\,R^3-72\sqrt{3}\,l^3\,r^3\,R^3+548\,l^2\,r^4\,R^3+184\sqrt{3}\,l\,r^5\,R^3+1056\,r^6\,R^3+144\,l^4\,r\,R^4-80\sqrt{3}\,l^3\,r^2\,R^4+928\,l^2\,r^3\,R^4+176\sqrt{3}\,l\,r^4\,R^4+1968\,r^5\,R^4+576\,l^2\,r^2\,R^5+64\sqrt{3}\,l\,r^3\,R^5+1920\,r^4\,R^5+768\,r^3\,R^6\right)\Big\}$$

$$\Big\{X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),\ X63,\ \text{ISOGONAL CONJUGATE OF } X(19),$$

$$-\Big(\Big(R\left(-l^6\,r+2\,l^4\,r^3-3\,l^2\,r^5+2\,r^7+14\,l^4\,r^2\,R-29\,l^2\,r^4\,R+25\,r^6\,R+22\,l^4\,r\,R^2-112\,l^2\,r^3\,R^2+134\,r^5\,R^2+3\,l^4\,R^3-202\,l^2\,r^2\,R^3+395\,r^4\,R^3-148\,l^2\,r\,R^4+676\,r^3\,R^4-16\,l^2\,R^5+636\,r^2\,R^5+256\,r\,R^6\right)\Big)\Big/\Big((r+R)^2\left(-l^2+r^2+5\,r\,R+6\,R^2\right)^2\Big)\Big)\Big\}$$

$$\Big\{X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),\ X64,$$

$$\text{ISOGONAL CONJUGATE OF } X(20),\ \frac{1}{(l-r-2\,R)^2\,(l+r+2\,R)^2\left(l^2-r^2-5\,r\,R-6\,R^2\right)^2}$$

$$R\left(l^8\,r-2\,l^4\,r^5+r^9+7\,l^8\,R-35\,l^6\,r^2\,R+39\,l^4\,r^4\,R-37\,l^2\,r^6\,R+26\,r^8\,R-164\,l^6\,r\,R^2+472\,l^4\,r^3\,R^2-524\,l^2\,r^5\,R^2+296\,r^7\,R^2-188\,l^6\,R^3+1788\,l^4\,r^2\,R^3-3104\,l^2\,r^4\,R^3+1940\,r^6\,R^3+2896\,l^4\,r\,R^4-9840\,l^2\,r^3\,R^4+8080\,r^5\,R^4+1728\,l^4\,R^5-17\,584\,l^2\,r^2\,R^5+22\,208\,r^4\,R^5-16\,768\,l^2\,r\,R^6+40\,320\,r^3\,R^6-6656\,l^2\,R^7+46\,656\,r^2\,R^7+31\,232\,r\,R^8+9216\,R^9\right)\Big\}$$

$$\Big\{X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),\ X65,\ \text{ORTHOCENTER OF THE INTOUCH TRIANGLE},$$

$$-\frac{1}{R\left(-l^2+r^2+5\,r\,R+6\,R^2\right)^2}\left(2\,l^4\,r^3-4\,l^2\,r^5+2\,r^7+4\,l^4\,r^2\,R-26\,l^2\,r^4\,R+22\,r^6\,R+3\,l^4\,r\,R^2-61\,l^2\,r^3\,R^2+98\,r^5\,R^2+l^4\,R^3-65\,l^2\,r^2\,R^3+227\,r^4\,R^3-32\,l^2\,r\,R^4+292\,r^3\,R^4-4\,l^2\,R^5+204\,r^2\,R^5+64\,r\,R^6\right)\Big\}$$

$$\Big\{X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),\ X66,\ \text{ISOGONAL CONJUGATE OF } X(22),$$

$$-\Big(\Big(l^{14}-11\,l^{12}\,r^2+41\,l^{10}\,r^4-75\,l^8\,r^6+75\,l^6\,r^8-41\,l^4\,r^{10}+11\,l^2\,r^{12}-r^{14}-27\,l^{12}\,r\,R+246\,l^{10}\,r^3\,R-741\,l^8\,r^5\,R+1044\,l^6\,r^7\,R-741\,l^4\,r^9\,R+246\,l^2\,r^{11}\,R-27\,r^{13}\,R-14\,l^{12}\,R^2+464\,l^{10}\,r^2\,R^2-2746\,l^8\,r^4\,R^2+5920\,l^6\,r^6\,R^2-5714\,l^4\,r^8\,R^2+2416\,l^2\,r^{10}\,R^2-326\,r^{12}\,R^2+318\,l^{10}\,r\,R^3-4726\,l^8\,r^3\,R^3+17\,532\,l^6\,r^5\,R^3-24\,476\,l^4\,r^7\,R^3+13\,670\,l^2\,r^9\,R^3-2318\,r^{11}\,R^3+64\,l^{10}\,R^4-3771\,l^8\,r^2\,R^4+28\,784\,l^6\,r^4\,R^4-63\,402\,l^4\,r^6\,R^4+49\,072\,l^2\,r^8\,R^4-10\,747\,r^{10}\,R^4-1180\,l^8\,r\,R^5+25\,424\,l^6\,r^3\,R^5-100\,984\,l^4\,r^5\,R^5+115\,792\,l^2\,r^7\,R^5-33\,932\,r^9\,R^5-92\,l^8\,R^6+10\,508\,l^6\,r^2\,R^6-95\,484\,l^4\,r^4\,R^6+179\,428\,l^2\,r^6\,R^6-73\,816\,r^8\,R^6+1296\,l^6\,r\,R^7-47\,968\,l^4\,r^3\,R^7+176\,048\,l^2\,r^5\,R^7-109\,024\,r^7\,R^7-16\,l^6\,R^8-9232\,l^4\,r^2\,R^8+99\,712\,l^2\,r^4\,R^8-104\,112\,r^6\,R^8+192\,l^4\,r\,R^9+25\,792\,l^2\,r^3\,R^9-57\,152\,r^5\,R^9+960\,l^2\,r^2\,R^{10}-12\,544\,r^4\,R^{10}+1024\,r^3\,R^{11}\Big)\Big/\Big((l-r-2\,R)^2\,(l+r+2\,R)^2\left(l^2-r^2-4\,r\,R\right)^2\left(l^2-r^2-5\,r\,R-6\,R^2\right)^2\Big)\Big)\Big\}$$

$$\Big\{X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),\ X67,\ \text{ISOGONAL CONJUGATE OF } X(23),$$

$$-\Big(\Big(l^{12}-18\,l^{10}\,r^2+63\,l^8\,r^4-92\,l^6\,r^6+63\,l^4\,r^8-18\,l^2\,r^{10}+r^{12}-21\,l^{10}\,r\,R+309\,l^8\,r^3\,R-822\,l^6\,r^5\,R+822\,l^4\,r^7\,R-309\,l^2\,r^9\,R+21\,r^{11}\,R-8\,l^{10}\,R^2+412\,l^8\,r^2\,R^2-2672\,l^6\,r^4\,R^2+4328\,l^4\,r^6\,R^2-2248\,l^2\,r^8\,R^2+188\,r^{10}\,R^2+127\,l^8\,r\,R^3-3768\,l^6\,r^3\,R^3+11\,730\,l^4\,r^5\,R^3-9016\,l^2\,r^7\,R^3+927\,r^9\,R^3+7\,l^8\,R^4-1977\,l^6\,r^2\,R^4+17\,121\,l^4\,r^4\,R^4-21\,679\,l^2\,r^6\,R^4+2688\,r^8\,R^4-28\,l^6\,r\,R^5+12\,440\,l^4\,r^3\,R^5-31\,732\,l^2\,r^5\,R^5+4392\,r^7\,R^5+36\,l^6\,R^6+3048\,l^4\,r^2\,R^6-27\,256\,l^2\,r^4\,R^6+2912\,r^6\,R^6-432\,l^4\,r\,R^7-12\,304\,l^2\,r^3\,R^7-2064\,r^5\,R^7-2160\,l^2\,r^2\,R^8-4736\,r^4\,R^8-2304\,r^3\,R^9\Big)\Big/\Big(\left(l^2-r^2-4\,r\,R\right)^2\left(2\,l^2-2\,r^2-8\,r\,R-9\,R^2\right)\left(l^2-r^2-5\,r\,R-6\,R^2\right)^2\Big)\Big)\Big\}$$

$$\Big\{X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),\ X68,$$

$$\text{PRASOLOV POINT},\ -\frac{1}{(1-r-2R)^2\,(1+r+2R)^2\,\left(l^2-r^2-5rR-6R^2\right)^2}$$

$$\Big(l^{10}-9l^8r^2+22l^6r^4-22l^4r^6+9l^2r^8-r^{10}-19l^8rR+128l^6r^3R-218l^4r^5R+128l^2r^7R-19r^9R-16l^8R^2+268l^6r^2R^2-872l^4r^4R^2+780l^2r^6R^2-160r^8R^2+240l^6rR^3-1784l^4r^3R^3+2648l^2r^5R^3-784r^7R^3+96l^6R^4-1939l^4r^2R^4+5434l^2r^4R^4-2467r^6R^4-1064l^4rR^5+6808l^2r^3R^5-5184r^5R^5-264l^4R^6+4980l^2r^2R^6-7308r^4R^6+1912l^2rR^7-6728r^3R^7+320l^2R^8-3780r^2R^8-1136rR^9-144R^{10}\Big)\Big\}$$

$$\Big\{X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),\ X69,$$

$$\text{SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},\ \frac{1}{\left(l^2-r^2-4rR\right)^2\left(l^2-r^2-5rR-6R^2\right)^2}$$

$$\Big(8l^8r^2-24l^6r^4+24l^4r^6-8l^2r^8-2l^8rR-96l^6r^3R+196l^4r^5R-96l^2r^7R-2r^9R-3l^8R^2-84l^6r^2R^2+590l^4r^4R^2-468l^2r^6R^2-35r^8R^2+60l^6rR^3+780l^4r^3R^3-1228l^2r^5R^3-252r^7R^3+16l^6R^4+292l^4r^2R^4-1960l^2r^4R^4-956r^6R^4-192l^4rR^5-1952l^2r^3R^5-2016r^5R^5-960l^2r^2R^6-2240r^4R^6-1024r^3R^7\Big)\Big\}$$

$$\Big\{X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),\ X70,\ \text{ISOGONAL CONJUGATE OF } X(26),$$

$$-\Big(\Big(l^{14}-11l^{12}r^2+41l^{10}r^4-75l^8r^6+75l^6r^8-41l^4r^{10}+11l^2r^{12}-r^{14}-27l^{12}rR+246l^{10}r^3R-741l^8r^5R+1044l^6r^7R-741l^4r^9R+246l^2r^{11}R-27r^{13}R-19l^{12}R^2+506l^{10}r^2R^2-2869l^8r^4R^2+6092l^6r^6R^2-5837l^4r^8R^2+2458l^2r^{10}R^2-331r^{12}R^2+435l^{10}rR^3-5515l^8r^3R^3+19314l^6r^5R^3-26258l^4r^7R^3+14459l^2r^9R^3-2435r^{11}R^3+143l^{10}R^4-5494l^8r^2R^4+35994l^6r^4R^4-74188l^4r^6R^4+55511l^2r^8R^4-11966r^{10}R^4-2697l^8rR^5+39784l^6r^3R^5-136238l^4r^5R^5+145640l^2r^7R^5-41369r^9R^5-546l^8R^6+25028l^6r^2R^6-162488l^4r^4R^6+265580l^2r^6R^6-103190r^8R^6+8139l^6rR^7-121997l^4r^3R^7+335453l^2r^5R^7-187355r^7R^7+1130l^6R^8-53903l^4r^2R^8+286932l^2r^4R^8-246659r^6R^8-12478l^4rR^9+158772l^2r^3R^9-231798r^5R^9-1257l^4R^{10}+52522l^2r^2R^{10}-151041r^4R^{10}+9128l^2rR^{11}-65128r^3R^{11}+680l^2R^{12}-17224r^2R^{12}-2432rR^{13}-144R^{14}\Big)\Big/\Big(\left(l^2-r^2-5rR-6R^2\right)^2\left(l^4-2l^2r^2+r^4-8l^2rR+8r^3R-6l^2R^2+22r^2R^2+24rR^3+7R^4\right)^2\Big)\Big)\Big\}$$

$$\Big\{X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),\ X71,$$

$$\text{ISOGONAL CONJUGATE OF } X(27),\ \frac{1}{\left(l^2-r^2-5rR-6R^2\right)^2\left(l^2+r^2+6rR+8R^2\right)^2}$$

$$R\Big(l^8r+2l^6r^3-2l^2r^7-r^9+7l^8R-23l^6r^2R+25l^4r^4R-29l^2r^6R-20r^8R-120l^6rR^2+204l^4r^3R^2-168l^2r^5R^2-172r^7R^2-132l^6R^3+632l^4r^2R^3-500l^2r^4R^3-832r^6R^3+880l^4rR^4-800l^2r^3R^4-2480r^5R^4+464l^4R^5-624l^2r^2R^5-4672r^4R^5-128l^2rR^6-5440r^3R^6+64l^2R^7-3584r^2R^7-1024rR^8\Big)\Big\}$$

$$\Big\{X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),\ X72,\ \text{ISOGONAL CONJUGATE OF } X(28),\ -\frac{1}{R\left(-l^2+r^2+5rR+6R^2\right)^2}$$

$$\Big(-l^6r+3l^4r^3-3l^2r^5+r^7+14l^4r^2R-30l^2r^4R+16r^6R+18l^4rR^2-112l^2r^3R^2+104r^5R^2+3l^4R^3-188l^2r^2R^3+352r^4R^3-128l^2rR^4+656r^3R^4-16l^2R^5+640r^2R^5+256rR^6\Big)\Big\}$$

$$\Big\{X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),\ X73,$$

$$\text{CROSSPOINT OF INCENTER AND CIRCUMCENTER},\ -\frac{1}{\left(l^2-r^2-5rR-6R^2\right)^2\left(l^2+r^2-2rR-4R^2\right)^2}$$

$$R\Big(l^8r+2l^6r^3-2l^2r^7-r^9+l^8R+l^6r^2R-35l^4r^4R+11l^2r^6R-18r^8R-32l^6rR^2-96l^4r^3R^2+184l^2r^5R^2-136r^7R^2-12l^6R^3+68l^4r^2R^3+604l^2r^4R^3-580r^6R^3+272l^4rR^4+512l^2r^3R^4-1456r^5R^4+48l^4R^5-592l^2r^2R^5-1920r^4R^5-896l^2rR^6-640r^3R^6-64l^2R^7+1216r^2R^7+1024rR^8\Big)\Big\}$$

$$\{X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),\ X74,\ \text{ISOGONAL CONJUGATE OF EULER INFINITY POINT},$$
$$\left(R\left(l^6 r + l^4 r^3 - l^2 r^5 - r^7 + 4 l^6 R - 21 l^4 r^2 R + 18 l^2 r^4 R - 21 r^6 R - 94 l^4 r R^2 + 212 l^2 r^3 R^2 - 182 r^5 R^2 - 97 l^4 R^3 + 762 l^2 r^2 R^3 - 857 r^4 R^3 + 1160 l^2 r R^4 - 2376 r^3 R^4 + 648 l^2 R^5 - 3880 r^2 R^5 - 3456 r R^6 - 1296 R^7\right)\right) / \left(\left(2 l^2 - 2 r^2 - 8 r R - 9 R^2\right)\left(l^2 - r^2 - 5 r R - 6 R^2\right)^2\right)\}$$

$$\{X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),\ X75,$$
$$\text{ISOTOMIC CONJUGATE OF INCENTER},\ -\frac{1}{\left(l^2 + r^2 + 4 r R\right)^2\left(l^2 - r^2 - 5 r R - 6 R^2\right)^2}$$
$$R\left(10 l^8 r - 40 l^6 r^3 + 52 l^4 r^5 - 24 l^2 r^7 + 2 r^9 + 3 l^8 R - 136 l^6 r^2 R + 378 l^4 r^4 R - 280 l^2 r^6 R + 35 r^8 R - 124 l^6 r R^2 + 948 l^4 r^3 R^2 - 1268 l^2 r^5 R^2 + 252 r^7 R^2 - 16 l^6 R^3 + 956 l^4 r^2 R^3 - 2760 l^2 r^4 R^3 + 956 r^6 R^3 + 320 l^4 r R^4 - 2848 l^2 r^3 R^4 + 2016 r^5 R^4 - 1088 l^2 r^2 R^5 + 2240 r^4 R^5 + 1024 r^3 R^6\right)\}$$

$$\{X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),\ X76,\ \text{3rd BROCARD POINT},$$
$$-\left(\left(R\left(2 l^{12} r + 4 l^{10} r^3 - 2 l^8 r^5 - 8 l^6 r^7 - 2 l^4 r^9 + 4 l^2 r^{11} + 2 r^{13} + 3 l^{12} R - 10 l^{10} r^2 R - 275 l^8 r^4 R + 468 l^6 r^6 R - 291 l^4 r^8 R + 54 l^2 r^{10} R + 51 r^{12} R - 84 l^{10} r R^2 - 204 l^8 r^3 R^2 + 2600 l^6 r^5 R^2 - 2664 l^4 r^7 R^2 + 300 l^2 r^9 R^2 + 564 r^{11} R^2 - 16 l^{10} R^3 + 428 l^8 r^2 R^3 + 4096 l^6 r^4 R^3 - 9848 l^4 r^6 R^3 + 1040 l^2 r^8 R^3 + 3532 r^{10} R^3 + 320 l^8 r R^4 + 1088 l^6 r^3 R^4 - 17728 l^4 r^5 R^4 + 3136 l^2 r^7 R^4 + 13696 r^9 R^4 - 832 l^6 r^2 R^5 - 14592 l^4 r^4 R^5 + 7872 l^2 r^6 R^5 + 33664 r^8 R^5 - 3584 l^4 r^3 R^6 + 11776 l^2 r^5 R^6 + 51200 r^7 R^6 + 7168 l^2 r^4 R^7 + 44032 r^6 R^7 + 16384 r^5 R^8\right)\right) / \left(\left(l^2 - r^2 - 5 r R - 6 R^2\right)^2\left(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\right)^2\right)\right)\}$$

$$\{X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),\ X77,$$
$$\text{ISOGONAL CONJUGATE OF } X(33),\ -\frac{1}{\left(l^2 - r^2 - 5 r R - 6 R^2\right)^2\left(l^2 - r R - 4 R^2\right)^2}$$
$$R\left(2 l^8 r - 3 l^6 r^3 + 2 l^4 r^5 - l^2 r^7 + l^8 R - 22 l^6 r^2 R + 24 l^4 r^4 R - 13 l^2 r^6 R - 44 l^6 r R^2 + 126 l^4 r^3 R^2 - 84 l^2 r^5 R^2 + 2 r^7 R^2 - 12 l^6 R^3 + 319 l^4 r^2 R^3 - 358 l^2 r^4 R^3 + 35 r^6 R^3 + 320 l^4 r R^4 - 980 l^2 r^3 R^4 + 252 r^5 R^4 + 48 l^4 R^5 - 1488 l^2 r^2 R^5 + 956 r^4 R^5 - 960 l^2 r R^6 + 2016 r^3 R^6 - 64 l^2 R^7 + 2240 r^2 R^7 + 1024 r R^8\right)\}$$

$$\{X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),\ X78,\ \text{ISOGONAL CONJUGATE OF } X(34),$$
$$-\left(\left(R\left(-l^6 r + 4 l^4 r^3 - 3 l^2 r^5 + 14 l^4 r^2 R - 27 l^2 r^4 R + 3 r^6 R + 14 l^4 r R^2 - 96 l^2 r^3 R^2 + 42 r^5 R^2 + 3 l^4 R^3 - 158 l^2 r^2 R^3 + 211 r^4 R^3 - 108 l^2 r R^4 + 500 r^3 R^4 - 16 l^2 R^5 + 572 r^2 R^5 + 256 r R^6\right)\right) / \left((r - R)^2\left(-l^2 + r^2 + 5 r R + 6 R^2\right)^2\right)\right)\}$$

$$\{X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),\ X79,\ \text{ISOGONAL CONJUGATE OF } X(35),$$
$$\left(-12 l^6 r^2 + 28 l^4 r^4 - 20 l^2 r^6 + 4 r^8 - 6 l^6 r R + 138 l^4 r^3 R - 186 l^2 r^5 R + 54 r^7 R + 180 l^4 r^2 R^2 - 640 l^2 r^4 R^2 + 300 r^6 R^2 + 21 l^4 r R^3 - 934 l^2 r^3 R^3 + 853 r^5 R^3 - 9 l^4 R^4 - 389 l^2 r^2 R^4 + 1208 r^4 R^4 + 192 l^2 r R^5 + 500 r^3 R^5 + 36 l^2 R^6 - 624 r^2 R^6 - 576 r R^7\right) / \left((2 r + 3 R)^2\left(-l^2 + r^2 + 5 r R + 6 R^2\right)^2\right)\}$$

$$\{X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),\ X80,\ \text{REFLECTION OF INCENTER IN FEUERBACH POINT},$$
$$\left(-2 l^6 r + 10 l^4 r^3 - 14 l^2 r^5 + 6 r^7 + 26 l^4 r^2 R - 88 l^2 r^4 R + 62 r^6 R + 21 l^4 r R^2 - 196 l^2 r^3 R^2 + 255 r^5 R^2 + l^4 R^3 - 187 l^2 r^2 R^3 + 528 r^4 R^3 - 72 l^2 r R^4 + 572 r^3 R^4 - 4 l^2 R^5 + 304 r^2 R^5 + 64 r R^6\right) / \left((2 r - R)\left(-l^2 + r^2 + 5 r R + 6 R^2\right)^2\right)\}$$

$$\{X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),\ X81,\ \text{CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},$$
$$-\left(\left(R\left(l^2 + r^2 + 2 r R\right)^2\left(2 l^4 r - 4 l^2 r^3 + 2 r^5 + l^4 R - 18 l^2 r^2 R + 17 r^4 R - 28 l^2 r R^2 + 58 r^3 R^2 - 4 l^2 R^3 + 95 r^2 R^3 + 64 r R^4\right)\right) / \left(\left(l^2 - r^2 - r R\right)^2\left(l^2 - r^2 - 5 r R - 6 R^2\right)^2\right)\right)\}$$

$$\{X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),\ X82,\ \text{ISOGONAL CONJUGATE OF } X(38),$$
$$-\left(\left(R\left(2 l^{12} r - 4 l^{10} r^3 - 2 l^8 r^5 + 8 l^6 r^7 - 2 l^4 r^9 - 4 l^2 r^{11} + 2 r^{13} + l^{12} R - 46 l^{10} r^2 R + 59 l^8 r^4 R + 60 l^6 r^6 R - 89 l^4 r^8 R - 14 l^2 r^{10} R + 29 r^{12} R - 40 l^{10} r R^2 + 422 l^8 r^3 R^2 - 224 l^6 r^5 R^2 - 508 l^4 r^7 R^2 + 200 l^2 r^9 R^2 + 150 r^{11} R^2 - 4 l^{10} R^3 + 491 l^8 r^2 R^3 - 1772 l^6 r^4 R^3 - 394 l^4 r^6 R^3 + 1424 l^2 r^8 R^3 + 255 r^{10} R^3 + 112 l^8 r R^4 - 2588 l^6 r^3 R^4 + 2724 l^4 r^5 R^4 + 3084 l^2 r^7 R^4 - 452 r^9 R^4 - 944 l^6 r^2 R^5 + 5756 l^4 r^4 R^5 + 1144 l^2 r^6 R^5 - 2340 r^8 R^5 + 3008 l^4 r^3 R^6 - 3616 l^2 r^5 R^6 - 2848 r^7 R^6 - 3136 l^2 r^4 R^7 - 320 r^6 R^7 + 1024 r^5 R^8\right)\right) / \left(\left(l^2 - r^2 - 5 r R - 6 R^2\right)^2\left(l^4 - 4 l^2 r^2 + 3 r^4 - 9 l^2 r R + 19 r^3 R + 28 r^2 R^2\right)^2\right)\right)\}$$

$$\{X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),\ X83,\ \text{CEVAPOINT OF CENTROID AND SYMMEDIAN POINT},$$
$$-\Big(\big(4 l^{14}+4 l^{12} r^2-12 l^{10} r^4-12 l^8 r^6+12 l^6 r^8+12 l^4 r^{10}-4 l^2 r^{12}-4 r^{14}-90 l^{12} r R-20 l^{10} r^3 R+$$
$$90 l^8 r^5 R+40 l^6 r^7 R+90 l^4 r^9 R-20 l^2 r^{11} R-90 r^{13} R-13 l^{12} R^2+750 l^{10} r^2 R^2-635 l^8 r^4 R^2+$$
$$996 l^6 r^6 R^2-547 l^4 r^8 R^2+302 l^2 r^{10} R^2-853 r^{12} R^2+220 l^{10} r R^3-3356 l^8 r^3 R^3+6600 l^6 r^5 R^3-$$
$$7112 l^4 r^7 R^3+3420 l^2 r^9 R^3-4380 r^{11} R^3-16 l^{10} R^4-1652 l^8 r^2 R^4+13696 l^6 r^4 R^4-$$
$$25912 l^4 r^6 R^4+14736 l^2 r^8 R^4-12884 r^{10} R^4+320 l^8 r R^5+8000 l^6 r^3 R^5-41792 l^4 r^5 R^5+$$
$$33600 l^2 r^7 R^5-20096 r^9 R^5-832 l^6 r^2 R^6-27904 l^4 r^4 R^6+42688 l^2 r^6 R^6-8320 r^8 R^6-$$
$$3584 l^4 r^3 R^7+28160 l^2 r^5 R^7+22528 r^7 R^7+7168 l^2 r^4 R^8+35840 r^6 R^8+16384 r^5 R^9\big)\Big/$$
$$\big(\big(l^2-r^2-5 r R-6 R^2\big)^2\big(5 l^4-6 l^2 r^2+5 r^4-40 l^2 r R+40 r^3 R+80 r^2 R^2\big)^2\big)\Big)\}$$

$$\{X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),\ X84,\ \text{ISOGONAL CONJUGATE OF } X(40),$$
$$-\Big(\big(R\big(-2 l^6 r+3 l^4 r^3-2 l^2 r^5+r^7+4 l^6 R+15 l^4 r^2 R-21 l^2 r^4 R+12 r^6 R-$$
$$12 l^4 r R^2-64 l^2 r^3 R^2+60 r^5 R^2-64 l^4 R^3+8 l^2 r^2 R^3+136 r^4 R^3+304 l^2 r R^4+$$
$$32 r^3 R^4+336 l^2 R^5-496 r^2 R^5-960 r R^6-576 R^7\big)\big)\Big/\big(r^2\big(-l^2+r^2+5 r R+6 R^2\big)^2\big)\Big)\}$$

$$\{X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),\ X85,$$
$$\text{ISOTOMIC CONJUGATE OF } X(9),\ -\frac{1}{\big(l^2-r^2-5 r R-6 R^2\big)^2\big(l^2+r^2+8 r R+16 R^2\big)^2}$$
$$R\big(26 l^8 r-56 l^6 r^3+36 l^4 r^5-8 l^2 r^7+2 r^9+19 l^8 R-312 l^6 r^2 R+410 l^4 r^4 R-168 l^2 r^6 R+$$
$$51 r^8 R-500 l^6 r R^2+1820 l^4 r^3 R^2-1436 l^2 r^5 R^2+564 r^7 R^2-144 l^6 R^3+3756 l^4 r^2 R^3-$$
$$6408 l^2 r^4 R^3+3532 r^6 R^3+3200 l^4 r R^4-15808 l^2 r^3 R^4+13696 r^5 R^4+512 l^4 R^5-20672 l^2 r^2 R^5+$$
$$33664 r^4 R^5-11776 l^2 r R^6+51200 r^3 R^6-1024 l^2 R^7+44032 r^2 R^7+16384 r R^8\big)\}$$

$$\{X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),\ X86,$$
$$\text{CEVAPOINT OF INCENTER AND CENTROID},\ -\Big(\big(\big(l^2+r^2+2 r R\big)^2$$
$$\big(4 l^6-8 l^4 r^2+4 l^2 r^4-26 l^4 r R+24 l^2 r^3 R+2 r^5 R-13 l^4 R^2+26 l^2 r^2 R^2+27 r^4 R^2-40 l^2 r R^3+$$
$$136 r^3 R^3-16 l^2 R^4+304 r^2 R^4+256 r R^5\big)\big)\Big/\big(\big(5 l^2+r^2+4 r R\big)^2\big(l^2-r^2-5 r R-6 R^2\big)^2\big)\Big)\}$$

$$\{X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),\ X87,\ X(2)\text{-CROSS CONJUGATE OF } X(1),$$
$$\big(R\big(l^{12} r-7 l^8 r^5-8 l^6 r^7+3 l^4 r^9+8 l^2 r^{11}+3 r^{13}-l^{12} R-33 l^{10} r^2 R+30 l^8 r^4 R+$$
$$78 l^6 r^6 R-5 l^4 r^8 R+35 l^2 r^{10} R+56 r^{12} R+32 l^{10} r R^2+348 l^8 r^3 R^2-32 l^6 r^5 R^2-$$
$$584 l^4 r^7 R^2+160 l^2 r^9 R^2+396 r^{11} R^2+4 l^{10} R^3-288 l^8 r^2 R^3-1848 l^6 r^4 R^3-$$
$$1152 l^4 r^6 R^3+1556 l^2 r^8 R^3+1152 r^{10} R^3-128 l^8 r R^4+192 l^6 r^3 R^4+3840 l^4 r^5 R^4+$$
$$5312 l^2 r^7 R^4-256 r^9 R^4+1152 l^6 r^2 R^5+7744 l^4 r^4 R^5+2816 l^2 r^6 R^5-10944 r^8 R^5-$$
$$1024 l^4 r^3 R^6-12800 l^2 r^5 R^6-30208 r^7 R^6-15360 l^2 r^4 R^7-35840 r^6 R^7-16384 r^5 R^8\big)\big)\Big/$$
$$\big(\big(l^2-r^2-5 r R-6 R^2\big)^2\big(l^4+2 l^2 r^2+r^4-20 l^2 r R+12 r^3 R+32 r^2 R^2\big)^2\big)\}$$

$$\{X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),\ X88,\ \text{ISOGONAL CONJUGATE OF } X(44),$$
$$-\Big(\big(R\big(l^2-3 r^2-6 r R\big)^2\big(-4 l^2 r^3+4 r^5+l^4 R+4 l^2 r^2 R+15 r^4 R-20 l^2 r R^2+22 r^3 R^2-$$
$$4 l^2 R^3+39 r^2 R^3+64 r R^4\big)\big)\Big/\big(\big(l^2+3 r^2-15 r R\big)^2\big(l^2-r^2-5 r R-6 R^2\big)^2\big)\Big)\}$$

$$\{X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),\ X89,\ \text{ISOGONAL CONJUGATE OF } X(45),$$
$$-\Big(\big(R\big(l^2+3 r^2+6 r R\big)^2\big(6 l^4 r-16 l^2 r^3+10 r^5+4 l^4 R-56 l^2 r^2 R+72 r^4 R-104 l^2 r R^2+220 r^3 R^2-$$
$$16 l^2 R^3+351 r^2 R^3+256 r R^4\big)\big)\Big/\big(\big(2 l^2-6 r^2+3 r R\big)^2\big(l^2-r^2-5 r R-6 R^2\big)^2\big)\Big)\}$$

$$\{X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),\ X90,$$
$$X(3)\text{-CROSS CONJUGATE OF } X(1),\ \frac{1}{\big(l^2-r^2-5 r R-6 R^2\big)^2\big(r^2+2 r R-R^2\big)^2}$$
$$R\big(2 l^6 r^3-3 l^4 r^5+2 l^2 r^7-r^9-4 l^6 r^2 R-13 l^4 r^4 R+21 l^2 r^6 R-14 r^8 R+2 l^6 r R^2-2 l^4 r^3 R^2+$$
$$80 l^2 r^5 R^2-84 r^7 R^2+18 l^4 r^2 R^3+128 l^2 r^4 R^3-278 r^6 R^3-19 l^4 r R^4+74 l^2 r^3 R^4-$$
$$543 r^5 R^4-l^4 R^5+35 l^2 r^2 R^5-624 r^4 R^5+64 l^2 r R^6-412 r^3 R^6+4 l^2 R^7-176 r^2 R^7-64 r R^8\big)\}$$

$$\left\{X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),\ X91,\ \text{ISOGONAL CONJUGATE OF } X(47),\right.$$

$$\frac{1}{\left(l^2-r^2-5\,r\,R-6\,R^2\right)^2\left(l^2\,r+r^3-l^2\,R+3\,r^2\,R+2\,r\,R^2+2\,R^3\right)^2}$$

$$R\left(l^{10}\,r-13\,l^8\,r^3+38\,l^6\,r^5-46\,l^4\,r^7+25\,l^2\,r^9-5\,r^{11}-24\,l^8\,r^2\,R+202\,l^6\,r^4\,R-430\,l^4\,r^6\,R+342\,l^2\,r^8\,R-\right.$$
$$90\,r^{10}\,R-15\,l^8\,r\,R^2+394\,l^6\,r^3\,R^2-1608\,l^4\,r^5\,R^2+1974\,l^2\,r^7\,R^2-713\,r^9\,R^2-l^8\,R^3+317\,l^6\,r^2\,R^3-$$
$$3075\,l^4\,r^4\,R^3+6263\,l^2\,r^6\,R^3-3256\,r^8\,R^3+104\,l^6\,r\,R^4-3132\,l^4\,r^3\,R^4+11\,904\,l^2\,r^5\,R^4-9436\,r^7\,R^4+$$
$$8\,l^6\,R^5-1584\,l^4\,r^2\,R^5+13\,784\,l^2\,r^4\,R^5-18\,016\,r^6\,R^5-348\,l^4\,r\,R^6+9360\,l^2\,r^3\,R^6-22\,772\,r^5\,R^6-$$
$$\left.\left.20\,l^4\,R^7+3340\,l^2\,r^2\,R^7-18\,608\,r^4\,R^7+512\,l^2\,r\,R^8-9232\,r^3\,R^8+16\,l^2\,R^9-2432\,r^2\,R^9-256\,r\,R^{10}\right)\right\}$$

$$\left\{X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),\ X92,\ \text{CEVAPOINT OF INCENTER AND CLAWSON POINT},\right.$$
$$-\left(\left((1-r-2\,R)^2\,R\,(1+r+2\,R)^2\left(14\,l^4\,r-12\,l^2\,r^3+6\,r^5+3\,l^4\,R-86\,l^2\,r^2\,R+55\,r^4\,R-132\,l^2\,r\,R^2+\right.\right.\right.$$
$$\left.\left.\left.212\,r^3\,R^2-16\,l^2\,R^3+380\,r^2\,R^3+256\,r\,R^4\right)\right)\Big/\left(\left(l^2-r^2-5\,r\,R-6\,R^2\right)^2\left(l^2+r^2-4\,R^2\right)^2\right)\right)\Big\}$$

$$\left\{X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),\ X93,\ \text{ISOGONAL CONJUGATE OF } X(49),\right.$$
$$-\left(\left((1-r-2\,R)^2\,R\,(1+r+2\,R)^2\left(2\,l^8\,r+8\,l^6\,r^3+12\,l^4\,r^5+8\,l^2\,r^7+2\,r^9-l^8\,R+44\,l^6\,r^2\,R-134\,l^4\,r^4\,R+\right.\right.\right.$$
$$108\,l^2\,r^6\,R+31\,r^8\,R-4\,l^6\,r\,R^2-580\,l^4\,r^3\,R^2+644\,l^2\,r^5\,R^2+196\,r^7\,R^2+14\,l^6\,R^3-$$
$$618\,l^4\,r^2\,R^3+1986\,l^2\,r^4\,R^3+634\,r^6\,R^3-106\,l^4\,r\,R^4+3052\,l^2\,r^3\,R^4+1046\,r^5\,R^4-54\,l^4\,R^5+$$
$$\left.\left.2020\,l^2\,r^2\,R^5+634\,r^4\,R^5+340\,l^2\,r\,R^6-372\,r^3\,R^6+38\,l^2\,R^7-570\,r^2\,R^7-116\,r\,R^8-9\,R^9\right)\right)\Big/$$
$$\left.\left.\left(\left(l^2-r^2-5\,r\,R-6\,R^2\right)^2\left(l^4+2\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-8\,l^2\,R^2+24\,r^2\,R^2+32\,r\,R^3+13\,R^4\right)^2\right)\right)\right\}$$

$$\left\{X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),\ X94,\ \text{ISOGONAL CONJUGATE OF } X(50),\right.$$
$$-\left(\left(R\left(2\,l^{12}\,r+4\,l^{10}\,r^3-2\,l^8\,r^5-8\,l^6\,r^7-2\,l^4\,r^9+4\,l^2\,r^{11}+2\,r^{13}-3\,l^{12}\,R+26\,l^{10}\,r^2\,R-269\,l^8\,r^4\,R+\right.\right.\right.$$
$$396\,l^6\,r^6\,R-285\,l^4\,r^8\,R+90\,l^2\,r^{10}\,R+45\,r^{12}\,R+30\,l^{10}\,r\,R^2-918\,l^8\,r^3\,R^2+3308\,l^6\,r^5\,R^2-$$
$$3372\,l^4\,r^7\,R^2+1014\,l^2\,r^9\,R^2+450\,r^{11}\,R^2+50\,l^{10}\,R^3-1114\,l^8\,r^2\,R^3+9964\,l^6\,r^4\,R^3-$$
$$17\,180\,l^4\,r^6\,R^3+6818\,l^2\,r^8\,R^3+2614\,r^{10}\,R^3-634\,l^8\,r\,R^4+14\,048\,l^6\,r^3\,R^4-47\,116\,l^4\,r^5\,R^4+$$
$$28\,768\,l^2\,r^7\,R^4+9670\,r^9\,R^4-300\,l^8\,R^5+9584\,l^6\,r^2\,R^5-73\,752\,l^4\,r^4\,R^5+77\,904\,l^2\,r^6\,R^5+$$
$$23\,428\,r^8\,R^5+3198\,l^6\,r\,R^6-64\,754\,l^4\,r^3\,R^6+135\,538\,l^2\,r^5\,R^6+36\,482\,r^7\,R^6+774\,l^6\,R^7-$$
$$29\,214\,l^4\,r^2\,R^7+147\,610\,l^2\,r^4\,R^7+33\,118\,r^6\,R^7-5832\,l^4\,r\,R^8+93\,936\,l^2\,r^3\,R^8+10\,744\,r^5\,R^8-$$
$$\left.\left.\left.729\,l^4\,R^9+29\,754\,l^2\,r^2\,R^9-9057\,r^4\,R^9+2916\,l^2\,r\,R^{10}-10\,116\,r^3\,R^{10}-2916\,r^2\,R^{11}\right)\right)\Big/$$
$$\left.\left.\left(\left(l^2-r^2-5\,r\,R-6\,R^2\right)^2\left(l^4+2\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-12\,l^2\,R^2+28\,r^2\,R^2+48\,r\,R^3+27\,R^4\right)^2\right)\right)\right\}$$

$$\left\{X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),\ X95,\ \text{CEVAPOINT OF CENTROID AND CIRCUMCENTER},\right.$$
$$-\left(\left(R\left(2\,l^{12}\,r+36\,l^{10}\,r^3-2\,l^8\,r^5-72\,l^6\,r^7-2\,l^4\,r^9+36\,l^2\,r^{11}+2\,r^{13}+3\,l^{12}\,R+86\,l^{10}\,r^2\,R-755\,l^8\,r^4\,R+\right.\right.\right.$$
$$1332\,l^6\,r^6\,R-1347\,l^4\,r^8\,R+630\,l^2\,r^{10}\,R+51\,r^{12}\,R-100\,l^{10}\,r\,R^2-1980\,l^8\,r^3\,R^2+8904\,l^6\,r^5\,R^2-$$
$$12\,168\,l^4\,r^7\,R^2+4764\,l^2\,r^9\,R^2+580\,r^{11}\,R^2-40\,l^{10}\,R^3-572\,l^8\,r^2\,R^3+18\,608\,l^6\,r^4\,R^3-44\,904\,l^4\,r^6\,R^3+$$
$$20\,472\,l^2\,r^8\,R^3+3876\,r^{10}\,R^3+928\,l^8\,r\,R^4+14\,848\,l^6\,r^3\,R^4-85\,376\,l^4\,r^5\,R^4+55\,296\,l^2\,r^7\,R^4+$$
$$16\,864\,r^9\,R^4+176\,l^8\,R^5+1440\,l^6\,r^2\,R^5-86\,976\,l^4\,r^4\,R^5+98\,400\,l^2\,r^6\,R^5+49\,936\,r^8\,R^5-3008\,l^6\,r\,R^6-$$
$$43\,840\,l^4\,r^3\,R^6+118\,464\,l^2\,r^5\,R^6+101\,952\,r^7\,R^6-256\,l^6\,R^7-6208\,l^4\,r^2\,R^7+97\,920\,l^2\,r^4\,R^7+141\,760$$
$$\left.\left.\left.r^6\,R^7+3072\,l^4\,r\,R^8+53\,760\,l^2\,r^3\,R^8+128\,512\,r^5\,R^8+15\,360\,l^2\,r^2\,R^9+68\,608\,r^4\,R^9+16\,384\,r^3\,R^{10}\right)\right)\Big/$$
$$\left.\left.\left(\left(l^2-r^2-5\,r\,R-6\,R^2\right)^2\left(l^4+18\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-4\,l^2\,R^2+20\,r^2\,R^2+16\,r\,R^3\right)^2\right)\right)\right\}$$

$$\left\{X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),\ X96,\ \text{ISOGONAL CONJUGATE OF } X(52),\right.$$
$$\left(R\left(2\,l^{12}\,r-28\,l^{10}\,r^3-2\,l^8\,r^5+56\,l^6\,r^7-2\,l^4\,r^9-28\,l^2\,r^{11}+2\,r^{13}+9\,l^{12}\,R-162\,l^{10}\,r^2\,R+\right.\right.$$
$$827\,l^8\,r^4\,R-1196\,l^6\,r^6\,R+1151\,l^4\,r^8\,R-690\,l^2\,r^{10}\,R+61\,r^{12}\,R-268\,l^{10}\,r\,R^2+3324\,l^8\,r^3\,R^2-$$
$$10\,472\,l^6\,r^5\,R^2+13\,128\,l^4\,r^7\,R^2-7308\,l^2\,r^9\,R^2+828\,r^{11}\,R^2-168\,l^{10}\,R^3+5096\,l^8\,r^2\,R^3-$$
$$32\,608\,l^6\,r^4\,R^3+63\,152\,l^4\,r^6\,R^3-43\,672\,l^2\,r^8\,R^3+6600\,r^{10}\,R^3+3736\,l^8\,r\,R^4-50\,880\,l^6\,r^3\,R^4+$$
$$166\,992\,l^4\,r^5\,R^4-163\,136\,l^2\,r^7\,R^4+34\,328\,r^9\,R^4+1160\,l^8\,R^5-43\,216\,l^6\,r^2\,R^5+$$
$$264\,160\,l^4\,r^4\,R^5-399\,088\,l^2\,r^6\,R^5+122\,456\,r^8\,R^5-19\,696\,l^6\,r\,R^6+255\,504\,l^4\,r^3\,R^6-$$
$$650\,960\,l^2\,r^5\,R^6+306\,608\,r^7\,R^6-3904\,l^6\,R^7+148\,544\,l^4\,r^2\,R^7-706\,688\,l^2\,r^4\,R^7+542\,400\,r^6\,R^7+$$
$$48\,384\,l^4\,r\,R^8-500\,736\,l^2\,r^3\,R^8+673\,792\,r^5\,R^8+6928\,l^4\,R^9-221\,984\,l^2\,r^2\,R^9+577\,296\,r^4\,R^9-$$
$$\left.\left.56\,192\,l^2\,r\,R^{10}+330\,624\,r^3\,R^{10}-6272\,l^2\,R^{11}+120\,192\,r^2\,R^{11}+25\,088\,r\,R^{12}+2304\,R^{13}\right)\right)\Big/$$
$$\left.\left.\left(\left(l^2-r^2-5\,r\,R-6\,R^2\right)^2\left(l^4-14\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R+16\,r^2\,R^2-4\,R^4\right)^2\right)\right\}$$

$$\{X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),\ X97,\ \text{ISOGONAL CONJUGATE OF } X(53),$$
$$-\Big(\Big(R\,\big(l^{12} r - 6 l^{10} r^3 - l^8 r^5 + 12 l^6 r^7 - l^4 r^9 - 6 l^2 r^{11} + r^{13} - 15 l^{10} r^2 R + 35 l^8 r^4 R + 106 l^6 r^6 R - 58 l^4 r^8 R - 91 l^2 r^{10} R + 23 r^{12} R - 17 l^{10} r R^2 + 109 l^8 r^3 R^2 + 306 l^6 r^5 R^2 - 506 l^4 r^7 R^2 - 577 l^2 r^9 R^2 + 237 r^{11} R^2 + 2 l^{10} R^3 + 112 l^8 r^2 R^3 + 424 l^6 r^4 R^3 - 2072 l^4 r^6 R^3 - 1906 l^2 r^8 R^3 + 1440 r^{10} R^3 + 76 l^8 r R^4 + 456 l^6 r^3 R^4 - 5064 l^4 r^5 R^4 - 3032 l^2 r^7 R^4 + 5708 r^9 R^4 - 25 l^8 R^5 + 324 l^6 r^2 R^5 - 8006 l^4 r^4 R^5 + 244 l^2 r^6 R^5 + 15\,399 r^8 R^5 - 4 l^6 r R^6 - 7860 l^4 r^3 R^6 + 10\,612 l^2 r^5 R^6 + 28\,548 r^7 R^6 + 104 l^6 R^7 - 3884 l^4 r^2 R^7 + 20\,448 l^2 r^4 R^7 + 35\,684 r^6 R^7 - 512 l^4 r R^8 + 18\,144 l^2 r^3 R^8 + 28\,320 r^5 R^8 - 144 l^4 R^9 + 7104 l^2 r^2 R^9 + 12\,176 r^4 R^9 + 576 l^2 r R^{10} + 1344 r^3 R^{10} - 576 r^2 R^{11}\big)\Big) \Big/ \big((l^2 - r^2 - 5 r R - 6 R^2)^2 (l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 7 l^2 R^2 + 23 r^2 R^2 + 28 r R^3 + 12 R^4)^2\big)\Big)\}$$

$$\{X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),\ X98,\ \text{TarryPoint},$$
$$\Big(R\,\big(2 l^8 r - 4 l^4 r^5 + 2 r^9 + 5 l^8 R - 52 l^6 r^2 R + 82 l^4 r^4 R - 76 l^2 r^6 R + 41 r^8 R - 112 l^6 r R^2 + 528 l^4 r^3 R^2 - 704 l^2 r^5 R^2 + 352 r^7 R^2 - 56 l^6 R^3 + 1048 l^4 r^2 R^3 - 2552 l^2 r^4 R^3 + 1640 r^6 R^3 + 768 l^4 r R^4 - 4480 l^2 r^3 R^4 + 4480 r^5 R^4 + 144 l^4 R^5 - 3744 l^2 r^2 R^5 + 7184 r^4 R^5 - 1152 l^2 r R^6 + 6272 r^3 R^6 + 2304 r^2 R^7\big)\Big) \Big/ \big((l^2 - r^2 - 5 r R - 6 R^2)^2 (l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2)\big)\Big)\}$$

$$\{X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),\ X99,\ \text{STEINER POINT},$$
$$-\Big(\Big(R\,(l^2 + r^2 + 2 r R)^2 (2 l^4 r - 4 l^2 r^3 + 2 r^5 + 3 l^4 R - 30 l^2 r^2 R + 27 r^4 R - 72 l^2 r R^2 + 136 r^3 R^2 - 16 l^2 R^3 + 304 r^2 R^3 + 256 r R^4)\Big) \Big/ \Big((l^2 - r^2 - 5 r R - 6 R^2)^2 (l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2)\Big)\Big)\}$$

$$\{X28,\ \text{CEVAPOINT OF } X(19) \text{ AND } X(25),\ X100,\ \text{ANTICOMPLEMENT OF FEUERBACH POINT},$$
$$\Big(R^2\,\big(4 l^4 r - 16 l^2 r^3 + 12 r^5 + 3 l^4 R - 70 l^2 r^2 R + 103 r^4 R - 84 l^2 r R^2 + 332 r^3 R^2 - 16 l^2 R^3 + 476 r^2 R^3 + 256 r R^4\big)\Big) \Big/ \Big((2 r - R)\,(-l^2 + r^2 + 5 r R + 6 R^2)^2\Big)\}$$

$$\{X29,\ \text{CEVAPOINT OF INCENTER AND ORTHOCENTER},\ X30,\ \text{EulerInfinityPoint},\ \infty\}$$

$$\Big\{X29,\ \text{CEVAPOINT OF INCENTER AND ORTHOCENTER},\ X31,$$
$$\text{SecondPowerPoint},\ \frac{1}{(l^2 - 3 r^2 - 6 r R)^2 (3 l^2 - r^2 - 8 r R - 12 R^2)^2}$$
$$\big(l^{10} + 9 l^8 r^2 - 22 l^6 r^4 - 46 l^4 r^6 + 5 l^2 r^8 + 21 r^{10} - 24 l^8 r R - 40 l^6 r^3 R - 72 l^4 r^5 R + 136 l^2 r^7 R + 192 r^9 R - 8 l^8 R^2 + 48 l^6 r^2 R^2 + 176 l^4 r^4 R^2 + 496 l^2 r^6 R^2 + 632 r^8 R^2 + 160 l^6 r R^3 + 128 l^4 r^3 R^3 + 288 l^2 r^5 R^3 + 832 r^7 R^3 + 16 l^6 R^4 - 272 l^4 r^2 R^4 - 656 l^2 r^4 R^4 + 208 r^6 R^4 - 256 l^4 r R^5 - 512 l^2 r^3 R^5 - 256 r^5 R^5\big)\Big\}$$

$$\{X29,\ \text{CEVAPOINT OF INCENTER AND ORTHOCENTER},\ X32,\ \text{ThirdPowerPoint},$$
$$\Big(l^{14} + 9 l^{12} r^2 - 79 l^{10} r^4 - 63 l^8 r^6 + 107 l^6 r^8 + 51 l^4 r^{10} - 29 l^2 r^{12} + 3 r^{14} - 28 l^{12} r R - 40 l^{10} r^3 R + 188 l^8 r^5 R + 848 l^6 r^7 R + 156 l^4 r^9 R - 424 l^2 r^{11} R + 68 r^{13} R - 8 l^{12} R^2 + 132 l^{10} r^2 R^2 + 616 l^8 r^4 R^2 + 1496 l^6 r^6 R^2 - 968 l^4 r^8 R^2 - 2364 l^2 r^{10} R^2 + 648 r^{12} R^2 + 192 l^{10} r R^3 - 32 l^8 r^3 R^3 - 928 l^6 r^5 R^3 - 4832 l^4 r^7 R^3 - 5920 l^2 r^9 R^3 + 3328 r^{11} R^3 + 16 l^{10} R^4 - 816 l^8 r^2 R^4 - 3584 l^6 r^4 R^4 - 4736 l^4 r^6 R^4 - 4624 l^2 r^8 R^4 + 9648 r^{10} R^4 - 320 l^8 r R^5 - 1024 l^6 r^3 R^5 + 6272 l^4 r^5 R^5 + 6656 l^2 r^7 R^5 + 14\,016 r^9 R^5 + 832 l^6 r^2 R^6 + 11\,904 l^4 r^4 R^6 + 11\,584 l^2 r^6 R^6 + 1536 r^8 R^6 + 3584 l^4 r^3 R^7 - 1536 l^2 r^5 R^7 - 26\,624 r^7 R^7 - 7168 l^2 r^4 R^8 - 36\,864 r^6 R^8 - 16\,384 r^5 R^9\Big) \Big/ \Big((l^2 - 2 l r - r^2 - 4 r R)^2 (l^2 + 2 l r - r^2 - 4 r R)^2 (3 l^2 - r^2 - 8 r R - 12 R^2)^2\Big)\}$$

$$\{X29,\ \text{CEVAPOINT OF INCENTER AND ORTHOCENTER},$$
$$X33,\ \text{PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES},$$
$$\Big((l - r - 2 R)^2 (l + r + 2 R)^2 (l^6 + 3 l^4 r^2 + 3 l^2 r^4 + r^6 - 20 l^4 r R - 12 r^5 R - 8 l^4 R^2 + 40 l^2 r^2 R^2 - 32 r^4 R^2 + 144 l^2 r R^3 - 48 r^3 R^3 + 16 l^2 R^4 - 192 r^2 R^4 - 256 r R^5)\Big) \Big/ \Big((3 l^2 - r^2 - 8 r R - 12 R^2)^2 (l^2 - r^2 - 2 r R - 4 R^2)^2\Big)\}$$

$$\{X29,\ \text{CEVAPOINT OF INCENTER AND ORTHOCENTER},\ X34,\ X(4)\text{-BETH CONJUGATE OF } X(4),$$
$$\Big((l - r - 2 R)^2 (l + r + 2 R)^2 (l^6 + 3 l^4 r^2 + 3 l^2 r^4 + r^6 - 28 l^4 r R + 16 l^2 r^3 R + 12 r^5 R - 8 l^4 R^2 + 56 l^2 r^2 R^2 + 48 r^4 R^2 + 176 l^2 r R^3 + 48 r^3 R^3 + 16 l^2 R^4 - 128 r^2 R^4 - 256 r R^5)\Big) \Big/ \Big((3 l^2 - r^2 - 8 r R - 12 R^2)^2 (l^2 - r^2 - 6 r R - 4 R^2)^2\Big)\}$$

$$\{X29,\ \text{CEVAPOINT OF INCENTER AND ORTHOCENTER},\ X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),$$
$$\left(-8 l^6 r^2 - 8 l^4 r^4 + 8 l^2 r^6 + 8 r^8 - 2 l^6 r R + 34 l^4 r^3 R + 74 l^2 r^5 R + 38 r^7 R + l^6 R^2 + 107 l^4 r^2 R^2 + 99 l^2 r^4 R^2 - 7 r^6 R^2 - 8 l^4 r R^3 - 232 l^2 r^3 R^3 - 256 r^5 R^3 - 8 l^4 R^4 - 336 l^2 r^2 R^4 - 248 r^4 R^4 + 128 l^2 r R^5 + 288 r^3 R^5 + 16 l^2 R^6 + 208 r^2 R^6 - 256 r R^7\right) \Big/ \left((2 r + R)^2 \left(-3 l^2 + r^2 + 8 r R + 12 R^2\right)^2\right)\}$$

$$\{X29,\ \text{CEVAPOINT OF INCENTER AND ORTHOCENTER},\ X36,\ \text{INVERSE-IN-CIRCUMCIRCLE OF INCENTER},$$
$$\left(-4 l^6 r - 4 l^4 r^3 + 4 l^2 r^5 + 4 r^7 - l^6 R + 13 l^4 r^2 R + 29 l^2 r^4 R + 15 r^6 R + 56 l^4 r R^2 + 40 l^2 r^3 R^2 - 16 r^5 R^2 + 8 l^4 R^3 - 112 l^2 r^2 R^3 - 136 r^4 R^3 - 224 l^2 r R^4 - 128 r^3 R^4 - 16 l^2 R^5 + 176 r^2 R^5 + 256 r R^6\right) \Big/ \left((2 r - R)\left(-3 l^2 + r^2 + 8 r R + 12 R^2\right)^2\right)\}$$

$$\{X29,\ \text{CEVAPOINT OF INCENTER AND ORTHOCENTER},\ X37,$$
$$\text{CrosspointOfIncenterAndCentroid},\ \frac{1}{\left(l^2 + r^2 + 4 r R\right)^2 \left(3 l^2 - r^2 - 8 r R - 12 R^2\right)^2}$$
$$\left(l^{10} - l^8 r^2 - 6 l^6 r^4 - 2 l^4 r^6 + 5 l^2 r^8 + 3 r^{10} - 28 l^8 r R + 48 l^6 r^3 R - 32 l^4 r^5 R + 64 l^2 r^7 R + 44 r^9 R - 8 l^8 R^2 + 196 l^6 r^2 R^2 - 264 l^4 r^4 R^2 + 356 l^2 r^6 R^2 + 248 r^8 R^2 + 192 l^6 r R^3 - 832 l^4 r^3 R^3 + 1152 l^2 r^5 R^3 + 640 r^7 R^3 + 16 l^6 R^4 - 976 l^4 r^2 R^4 + 2256 l^2 r^4 R^4 + 560 r^6 R^4 - 320 l^4 r R^5 + 2432 l^2 r^3 R^5 - 704 r^5 R^5 + 1088 l^2 r^2 R^6 - 1792 r^4 R^6 - 1024 r^3 R^7\right)\}$$

$$\{X29,\ \text{CEVAPOINT OF INCENTER AND ORTHOCENTER},\ X38,$$
$$\text{CROSSPOINT OF } X(1) \text{ AND } X(75),\ \frac{1}{\left(l^2 + r^2 - 2 r R\right)^2 \left(3 l^2 - r^2 - 8 r R - 12 R^2\right)^2}$$
$$\left(l^{10} - 7 l^8 r^2 - 22 l^6 r^4 - 14 l^4 r^6 + 5 l^2 r^8 + 5 r^{10} - 40 l^8 r R + 184 l^6 r^3 R - 136 l^4 r^5 R + 168 l^2 r^7 R + 16 r^9 R - 8 l^8 R^2 + 592 l^6 r^2 R^2 - 1488 l^4 r^4 R^2 + 1488 l^2 r^6 R^2 - 264 r^8 R^2 + 288 l^6 r R^3 - 4352 l^4 r^3 R^3 + 6816 l^2 r^5 R^3 - 2624 r^7 R^3 + 16 l^6 R^4 - 3472 l^4 r^2 R^4 + 16\,368 l^2 r^4 R^4 - 11\,056 r^6 R^4 - 512 l^4 r R^5 + 17\,408 l^2 r^3 R^5 - 25\,600 r^5 R^5 + 5120 l^2 r^2 R^6 - 31\,744 r^4 R^6 - 16\,384 r^3 R^7\right)\}$$

$$\{X29,\ \text{CEVAPOINT OF INCENTER AND ORTHOCENTER},\ X39,\ \text{BrocardMidpoint},$$
$$\left(l^{14} + l^{12} r^2 - 7 l^{10} r^4 - 15 l^8 r^6 - 5 l^6 r^8 + 11 l^4 r^{10} + 11 l^2 r^{12} + 3 r^{14} - 28 l^{12} r R - 8 l^{10} r^3 R + 60 l^8 r^5 R + 16 l^6 r^7 R + 28 l^4 r^9 R + 120 l^2 r^{11} R + 68 r^{13} R - 8 l^{12} R^2 + 196 l^{10} r^2 R^2 + 424 l^8 r^4 R^2 - 232 l^6 r^6 R^2 + 248 l^4 r^8 R^2 + 324 l^2 r^{10} R^2 + 648 r^{12} R^2 + 192 l^{10} r R^3 - 160 l^8 r^3 R^3 - 2848 l^6 r^5 R^3 + 2464 l^4 r^7 R^3 - 928 l^2 r^9 R^3 + 3328 r^{11} R^3 + 16 l^{10} R^4 - 944 l^8 r^2 R^4 - 5504 l^6 r^4 R^4 + 10\,240 l^4 r^6 R^4 - 7312 l^2 r^8 R^4 + 9648 r^{10} R^4 - 320 l^8 r R^5 - 1024 l^6 r^3 R^5 + 20\,608 l^4 r^5 R^5 - 17\,920 l^2 r^7 R^5 + 14\,016 r^9 R^5 + 832 l^6 r^2 R^6 + 18\,048 l^4 r^4 R^6 - 23\,232 l^2 r^6 R^6 + 1536 r^8 R^6 + 3584 l^4 r^3 R^7 - 17\,920 l^2 r^5 R^7 - 26\,624 r^7 R^7 - 7168 l^2 r^4 R^8 - 36\,864 r^6 R^8 - 16\,384 r^5 R^9\right) \Big/ \left(\left(3 l^2 - r^2 - 8 r R - 12 R^2\right)^2 \left(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\right)^2\right)\}$$

$$\{X29,\ \text{CEVAPOINT OF INCENTER AND ORTHOCENTER},\ X40,\ \text{BEVAN POINT},$$
$$-\frac{1}{\left(3 l^2 - r^2 - 8 r R - 12 R^2\right)^2}\left(5 l^6 + 7 l^4 r^2 - l^2 r^4 - 3 r^6 - 4 l^4 r R - 48 l^2 r^3 R - 12 r^5 R - 76 l^4 R^2 - 136 l^2 r^2 R^2 + 52 r^4 R^2 + 96 l^2 r R^3 + 320 r^3 R^3 + 368 l^2 R^4 + 368 r^2 R^4 - 320 r R^5 - 576 R^6\right)\}$$

$$\{X29,\ \text{CEVAPOINT OF INCENTER AND ORTHOCENTER},\ X41,\ X(6)\text{-CEVA CONJUGATE OF } X(31),$$
$$-\frac{1}{\left(3 l^2 - r^2 - 8 r R - 12 R^2\right)^2 \left(3 l^2 r - r^3 + 2 l^2 R - 8 r^2 R - 16 r R^2\right)^2}$$
$$\left(9 l^{10} r^2 - 15 l^8 r^4 - 38 l^6 r^6 + 2 l^4 r^8 + 13 l^2 r^{10} - 3 r^{12} - 108 l^8 r^3 R - 168 l^6 r^5 R + 176 l^4 r^7 R + 168 l^2 r^9 R - 68 r^{11} R - 4 l^{10} R^2 - 72 l^8 r^2 R^2 + 40 l^6 r^4 R^2 + 1232 l^4 r^6 R^2 + 732 l^2 r^8 R^2 - 648 r^{10} R^2 + 64 l^8 r R^3 + 672 l^6 r^3 R^3 + 2880 l^4 r^5 R^3 + 736 l^2 r^7 R^3 - 3328 r^9 R^3 + 32 l^8 R^4 + 368 l^6 r^2 R^4 + 1360 l^4 r^4 R^4 - 3440 l^2 r^6 R^4 - 9648 r^8 R^4 - 384 l^6 r R^5 - 3264 l^4 r^3 R^5 - 10\,496 l^2 r^5 R^5 - 14\,016 r^7 R^5 - 64 l^6 R^6 - 2944 l^4 r^2 R^6 - 7488 l^2 r^4 R^6 - 1536 r^6 R^6 + 512 l^4 r R^7 + 5632 l^2 r^3 R^7 + 26\,624 r^5 R^7 + 7168 l^2 r^2 R^8 + 36\,864 r^4 R^8 + 16\,384 r^3 R^9\right)\}$$

$$\Big\{\text{X29, CEVAPOINT OF INCENTER AND ORTHOCENTER, X42,}$$
$$\text{CROSSPOINT OF INCENTER AND SYMMEDIAN POINT, } \frac{1}{\left(l^2+r^2-2\,r\,R\right)^2\left(3\,l^2-r^2-8\,r\,R-12\,R^2\right)^2}$$
$$\left(l^{10}+5\,l^8\,r^2+10\,l^6\,r^4+10\,l^4\,r^6+5\,l^2\,r^8+r^{10}-16\,l^8\,r\,R+32\,l^4\,r^5\,R-16\,r^9\,R-8\,l^8\,R^2-96\,l^6\,r^2\,R^2+48\,l^4\,r^4\,R^2-224\,l^2\,r^6\,R^2-104\,r^8\,R^2+96\,l^6\,r\,R^3+384\,l^4\,r^3\,R^3-544\,l^2\,r^5\,R^3-64\,r^7\,R^3+16\,l^6\,R^4+816\,l^4\,r^2\,R^4-144\,l^2\,r^4\,R^4+144\,r^6\,R^4-128\,l^4\,r\,R^5-640\,l^2\,r^3\,R^5-1536\,r^5\,R^5-1792\,l^2\,r^2\,R^6-5120\,r^4\,R^6-4096\,r^3\,R^7\right)\Big\}$$

$$\Big\{\text{X29, CEVAPOINT OF INCENTER AND ORTHOCENTER, X43,}$$
$$\text{X(6)-CEVA CONJUGATE OF X(1), } \frac{1}{\left(l^2+r^2-8\,r\,R\right)^2\left(3\,l^2-r^2-8\,r\,R-12\,R^2\right)^2}$$
$$\left(l^{10}+5\,l^8\,r^2+10\,l^6\,r^4+10\,l^4\,r^6+5\,l^2\,r^8+r^{10}-16\,l^8\,r\,R+8\,l^6\,r^3\,R+24\,l^4\,r^5\,R-40\,l^2\,r^7\,R-40\,r^9\,R-8\,l^8\,R^2-80\,l^6\,r^2\,R^2+48\,l^4\,r^4\,R^2-848\,l^2\,r^6\,R^2+56\,r^8\,R^2+96\,l^6\,r\,R^3+384\,l^4\,r^3\,R^3-2592\,l^2\,r^5\,R^3+2240\,r^7\,R^3+16\,l^6\,R^4+752\,l^4\,r^2\,R^4-2256\,l^2\,r^4\,R^4+8272\,r^6\,R^4-128\,l^4\,r\,R^5-1024\,l^2\,r^3\,R^5+10\,368\,r^5\,R^5-1792\,l^2\,r^2\,R^6+1280\,r^4\,R^6-4096\,r^3\,R^7\right)\Big\}$$

$$\Big\{\text{X29, CEVAPOINT OF INCENTER AND ORTHOCENTER, X44,}$$
$$\text{X(6)-LINE CONJUGATE OF X(1), } \frac{1}{\left(l^2-3\,r^2-12\,r\,R\right)^2\left(3\,l^2-r^2-8\,r\,R-12\,R^2\right)^2}$$
$$\left(l^{10}+15\,l^8\,r^2-30\,l^6\,r^4-74\,l^4\,r^6-3\,l^2\,r^8+27\,r^{10}-12\,l^8\,r\,R-16\,l^6\,r^3\,R-432\,l^4\,r^5\,R+96\,l^2\,r^7\,R+396\,r^9\,R-8\,l^8\,R^2-220\,l^6\,r^2\,R^2-648\,l^4\,r^4\,R^2+1092\,l^2\,r^6\,R^2+2232\,r^8\,R^2+64\,l^6\,r\,R^3+448\,l^4\,r^3\,R^3+3840\,l^2\,r^5\,R^3+5760\,r^7\,R^3+16\,l^6\,R^4+1328\,l^4\,r^2\,R^4+4944\,l^2\,r^4\,R^4+5040\,r^6\,R^4-64\,l^4\,r\,R^5+384\,l^2\,r^3\,R^5-6336\,r^5\,R^5-2496\,l^2\,r^2\,R^6-16\,128\,r^4\,R^6-9216\,r^3\,R^7\right)\Big\}$$

$$\Big\{\text{X29, CEVAPOINT OF INCENTER AND ORTHOCENTER, X45,}$$
$$\text{X(9)-BETH CONJUGATE OF X(1), } \frac{1}{\left(l^2+3\,r^2+12\,r\,R\right)^2\left(3\,l^2-r^2-8\,r\,R-12\,R^2\right)^2}$$
$$\left(l^{10}-9\,l^8\,r^2-54\,l^6\,r^4-50\,l^4\,r^6+21\,l^2\,r^8+27\,r^{10}-36\,l^8\,r\,R+176\,l^6\,r^3\,R-360\,l^4\,r^5\,R+336\,l^2\,r^7\,R+396\,r^9\,R-8\,l^8\,R^2+452\,l^6\,r^2\,R^2-1416\,l^4\,r^4\,R^2+2148\,l^2\,r^6\,R^2+2232\,r^8\,R^2+256\,l^6\,r\,R^3-3008\,l^4\,r^3\,R^3+7104\,l^2\,r^5\,R^3+5760\,r^7\,R^3+16\,l^6\,R^4-2512\,l^4\,r^2\,R^4+12\,624\,l^2\,r^4\,R^4+5040\,r^6\,R^4-448\,l^4\,r\,R^5+11\,136\,l^2\,r^3\,R^5-6336\,r^5\,R^5+3648\,l^2\,r^2\,R^6-16\,128\,r^4\,R^6-9216\,r^3\,R^7\right)\Big\}$$

$$\Big\{\text{X29, CEVAPOINT OF INCENTER AND ORTHOCENTER, X46, X(4)-CEVA CONJUGATE OF X(1),}$$
$$\left(-5\,l^6\,r^2-7\,l^4\,r^4+l^2\,r^6+3\,r^8+4\,l^6\,r\,R+8\,l^4\,r^3\,R+44\,l^2\,r^5\,R+8\,r^7\,R+l^6\,R^2+27\,l^4\,r^2\,R^2+131\,l^2\,r^4\,R^2-71\,r^6\,R^2-56\,l^4\,r\,R^3+56\,l^2\,r^3\,R^3-368\,r^5\,R^3-8\,l^4\,R^4+32\,l^2\,r^2\,R^4-584\,r^4\,R^4+224\,l^2\,r\,R^5-320\,r^3\,R^5+16\,l^2\,R^6-176\,r^2\,R^6-256\,r\,R^7\right)\Big/\left((r-R)^2\left(-3\,l^2+r^2+8\,r\,R+12\,R^2\right)^2\right)\Big\}$$

$$\Big\{\text{X29, CEVAPOINT OF INCENTER AND ORTHOCENTER, X47,}$$
$$\text{X(110)-BETH CONJUGATE OF X(34), } \frac{1}{\left(3\,l^2-r^2-8\,r\,R-12\,R^2\right)^2\left(l^2-3\,r^2-6\,r\,R-2\,R^2\right)^2}$$
$$\left(l^{10}+9\,l^8\,r^2-22\,l^6\,r^4-46\,l^4\,r^6+5\,l^2\,r^8+21\,r^{10}-24\,l^8\,r\,R-40\,l^6\,r^3\,R-72\,l^4\,r^5\,R+136\,l^2\,r^7\,R+192\,r^9\,R-12\,l^8\,R^2+24\,l^6\,r^2\,R^2+160\,l^4\,r^4\,R^2+520\,l^2\,r^6\,R^2+652\,r^8\,R^2+256\,l^6\,r\,R^3+192\,l^4\,r^3\,R^3+384\,l^2\,r^5\,R^3+960\,r^7\,R^3+52\,l^6\,R^4-516\,l^4\,r^2\,R^4-708\,l^2\,r^4\,R^4+564\,r^6\,R^4-992\,l^4\,r\,R^5-480\,l^2\,r^3\,R^5+512\,r^5\,R^5-96\,l^4\,R^6+1472\,l^2\,r^2\,R^6+1248\,r^4\,R^6+1664\,l^2\,r\,R^7+512\,r^3\,R^7+64\,l^2\,R^8-1216\,r^2\,R^8-1024\,r\,R^9\right)\Big\}$$

$$\Big\{X29,\ \text{CEVAPOINT OF INCENTER AND ORTHOCENTER},\ X48,$$

$$\text{CROSSPOINT OF } X(1) \text{ AND } X(63),\ -\frac{1}{\left(3 l^2 - r^2 - 8 r R - 12 R^2\right)^2 \left(3 l^2 - r^2 - 6 r R - 8 R^2\right)^2}$$

$$\Big(9 l^{10} - 15 l^8 r^2 - 38 l^6 r^4 + 2 l^4 r^6 + 13 l^2 r^8 - 3 r^{10} - 48 l^8 r R - 104 l^6 r^3 R + 136 l^4 r^5 R + 136 l^2 r^7 R - 56 r^9 R - 108 l^8 R^2 + 24 l^6 r^2 R^2 + 768 l^4 r^4 R^2 + 456 l^2 r^6 R^2 - 436 r^8 R^2 + 368 l^6 r R^3 + 1552 l^4 r^3 R^3 + 144 l^2 r^5 R^3 - 1808 r^7 R^3 + 416 l^6 R^4 + 1072 l^4 r^2 R^4 - 2624 l^2 r^4 R^4 - 4112 r^6 R^4 - 256 l^4 r R^5 - 6656 l^2 r^3 R^5 - 4096 r^5 R^5 - 448 l^4 R^6 - 6784 l^2 r^2 R^6 + 2368 r^4 R^6 - 2816 l^2 r R^7 + 11\,008 r^3 R^7 - 256 l^2 R^8 + 11\,264 r^2 R^8 + 4096 r R^9\Big)\Big\}$$

$$\Big\{X29,\ \text{CEVAPOINT OF INCENTER AND ORTHOCENTER},\ X49,$$

$$\text{CENTER OF SINE-TRIPLE-ANGLE CIRCLE},\ -\frac{1}{\left(3 l^2 - r^2 - 8 r R - 12 R^2\right)^2 \left(2 l^2 - 2 r^2 - 8 r R - 7 R^2\right)^2}$$

$$\Big(2 l^{10} - 18 l^8 r^2 - 12 l^6 r^4 + 28 l^4 r^6 + 10 l^2 r^8 - 10 r^{10} - 8 l^8 r R + 32 l^6 r^3 R + 208 l^4 r^5 R + 32 l^2 r^7 R - 136 r^9 R - 30 l^8 R^2 + 148 l^6 r^2 R^2 + 464 l^4 r^4 R^2 - 212 l^2 r^6 R^2 - 754 r^8 R^2 + 104 l^6 r R^3 + 184 l^4 r^3 R^3 - 1288 l^2 r^5 R^3 - 2136 r^7 R^3 + 164 l^6 R^4 - 388 l^4 r^2 R^4 - 2436 l^2 r^4 R^4 - 3036 r^6 R^4 - 416 l^4 r R^5 - 1664 l^2 r^3 R^5 - 1248 r^5 R^5 - 393 l^4 R^6 + 62 l^2 r^2 R^6 + 1991 r^4 R^6 + 544 l^2 r R^7 + 2592 r^3 R^7 + 392 l^2 R^8 + 840 r^2 R^8 - 128 r R^9 - 144 R^{10}\Big)\Big\}$$

$$\Big\{X29,\ \text{CEVAPOINT OF INCENTER AND ORTHOCENTER},\ X50,\ X(74)\text{-CEVA CONJUGATE OF } X(184),$$

$$\Big(l^{14} + 9 l^{12} r^2 - 79 l^{10} r^4 - 63 l^8 r^6 + 107 l^6 r^8 + 51 l^4 r^{10} - 29 l^2 r^{12} + 3 r^{14} - 28 l^{12} r R - 40 l^{10} r^3 R + 188 l^8 r^5 R + 848 l^6 r^7 R + 156 l^4 r^9 R - 424 l^2 r^{11} R + 68 r^{13} R - 14 l^{12} R^2 + 84 l^{10} r^2 R^2 + 742 l^8 r^4 R^2 + 1736 l^6 r^6 R^2 - 1010 l^4 r^8 R^2 - 2460 l^2 r^{10} R^2 + 666 r^{12} R^2 + 336 l^{10} r R^3 + 112 l^8 r^3 R^3 - 448 l^6 r^5 R^3 - 5696 l^4 r^7 R^3 - 6928 l^2 r^9 R^3 + 3664 r^{11} R^3 + 73 l^{10} R^4 - 1017 l^8 r^2 R^4 - 4262 l^6 r^4 R^4 - 8258 l^4 r^6 R^4 - 8227 l^2 r^8 R^4 + 12\,219 r^{10} R^4 - 1460 l^8 r R^5 - 2800 l^6 r^3 R^5 + 3656 l^4 r^5 R^5 + 2576 l^2 r^7 R^5 + 24\,204 r^9 R^5 - 168 l^8 R^6 + 1732 l^6 r^2 R^6 + 20\,856 l^4 r^4 R^6 + 14\,308 l^2 r^6 R^6 + 22\,488 r^8 R^6 + 2688 l^6 r R^7 + 18\,752 l^4 r^3 R^7 + 576 l^2 r^5 R^7 - 11\,648 r^7 R^7 + 144 l^6 R^8 + 3888 l^4 r^2 R^8 - 26\,416 l^2 r^4 R^8 - 59\,472 r^6 R^8 - 1728 l^4 r R^9 - 27\,264 l^2 r^3 R^9 - 71\,872 r^5 R^9 - 8640 l^2 r^2 R^{10} - 40\,704 r^4 R^{10} - 9216 r^3 R^{11}\Big) \Big/ \Big(\left(3 l^2 - r^2 - 8 r R - 12 R^2\right)^2 \left(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 3 l^2 R^2 + 19 r^2 R^2 + 12 r R^3\right)^2\Big)\Big\}$$

$$\Big\{X29,\ \text{CEVAPOINT OF INCENTER AND ORTHOCENTER},\ X51,\ \text{CENTROID OF ORTHIC TRIANGLE},$$

$$-\Big(\Big(-9 l^8 + 108 l^6 r^2 - 134 l^4 r^4 + 12 l^2 r^6 + 7 r^8 + 72 l^6 r R - 632 l^4 r^3 R + 184 l^2 r^5 R + 120 r^7 R + 72 l^6 R^2 - 872 l^4 r^2 R^2 + 888 l^2 r^4 R^2 + 680 r^6 R^2 - 288 l^4 r R^3 + 1728 l^2 r^3 R^3 + 1760 r^5 R^3 - 144 l^4 R^4 + 1184 l^2 r^2 R^4 + 2160 r^4 R^4 + 1024 r^3 R^5\Big) \Big/ \Big(36 R^2 \left(-3 l^2 + r^2 + 8 r R + 12 R^2\right)^2\Big)\Big)\Big\}$$

$$\Big\{X29,\ \text{CEVAPOINT OF INCENTER AND ORTHOCENTER},\ X52,$$

$$\text{ORTHOCENTER OF ORTHIC TRIANGLE},\ \frac{1}{4 R^2 \left(-3 l^2 + r^2 + 8 r R + 12 R^2\right)^2}$$

$$\Big(15 l^8 - 116 l^6 r^2 + 106 l^4 r^4 - 20 l^2 r^6 - r^8 - 184 l^6 r R + 776 l^4 r^3 R - 328 l^2 r^5 R - 8 r^7 R - 164 l^6 R^2 + 1740 l^4 r^2 R^2 - 1884 l^2 r^4 R^2 + 52 r^6 R^2 + 1488 l^4 r R^3 - 4960 l^2 r^3 R^3 + 720 r^5 R^3 + 628 l^4 R^4 - 6296 l^2 r^2 R^4 + 2932 r^4 R^4 - 3712 l^2 r R^5 + 5760 r^3 R^5 - 992 l^2 R^6 + 5792 r^2 R^6 + 2816 r R^7 + 576 R^8\Big)\Big\}$$

$$\Big\{X29,\ \text{CEVAPOINT OF INCENTER AND ORTHOCENTER},\ X53,\ \text{SYMMEDIAN POINT OF ORTHIC TRIANGLE},$$

$$\Big(\left(l - r - 2 R\right)^2 \left(l + r + 2 R\right)^2 \Big(l^{10} - l^8 r^2 - 54 l^6 r^4 + 158 l^4 r^6 - 43 l^2 r^8 + 3 r^{10} - 20 l^8 r R - 16 l^6 r^3 R + 584 l^4 r^5 R - 400 l^2 r^7 R + 44 r^9 R - 8 l^8 R^2 + 4 l^6 r^2 R^2 + 696 l^4 r^4 R^2 - 1308 l^2 r^6 R^2 + 248 r^8 R^2 + 128 l^6 r R^3 + 448 l^4 r^3 R^3 - 1856 l^2 r^5 R^3 + 640 r^7 R^3 + 16 l^6 R^4 + 304 l^4 r^2 R^4 - 1328 l^2 r^4 R^4 + 560 r^6 R^4 - 192 l^4 r R^5 - 1152 l^2 r^3 R^5 - 704 r^5 R^5 - 960 l^2 r^2 R^6 - 1792 r^4 R^6 - 1024 r^3 R^7\Big)\Big) \Big/ \Big(\left(3 l^2 - r^2 - 8 r R - 12 R^2\right)^2 \left(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 4 l^2 R^2 + 20 r^2 R^2 + 16 r R^3\right)^2\Big)\Big\}$$

$$\left\{X29,\ \text{CEVAPOINT OF INCENTER AND ORTHOCENTER},\ X54,\ \text{KosnitaPoint},\ -\frac{1}{\left(3 l^2-r^2-8 r R-12 R^2\right)^2\left(2 l^2-2 r^2-8 r R-5 R^2\right)^2}\right.$$
$$\left(2 l^{10}-18 l^8 r^2-12 l^6 r^4+28 l^4 r^6+10 l^2 r^8-10 r^{10}-8 l^8 r R+32 l^6 r^3 R+208 l^4 r^5 R+32 l^2 r^7 R-136 r^9 R-35 l^8 R^2+176 l^6 r^2 R^2+434 l^4 r^4 R^2-248 l^2 r^6 R^2-727 r^8 R^2+176 l^6 r R^3-1488 l^2 r^5 R^3-1824 r^7 R^3+228 l^6 R^4-884 l^4 r^2 R^4-2692 l^2 r^4 R^4-1580 r^6 R^4-1056 l^4 r R^5-1152 l^2 r^3 R^5+2208 r^5 R^5-692 l^4 R^6+1832 l^2 r^2 R^6+6156 r^4 R^6+2336 l^2 r R^7+4320 r^3 R^7+992 l^2 R^8-416 r^2 R^8-1664 r R^9-576 R^{10}\right)\Big\}$$

$$\left\{X29,\ \text{CEVAPOINT OF INCENTER AND ORTHOCENTER},\ X55,\ \text{INSIMILICENTER(CIRCUMCIRCLE, INCIRCLE)},\right.$$
$$\left(-2 l^6 r^2-2 l^4 r^4+2 l^2 r^6+2 r^8-l^6 r R+9 l^4 r^3 R+21 l^2 r^5 R+11 r^7 R+l^6 R^2+30 l^4 r^2 R^2+33 l^2 r^4 R^2+4 r^6 R^2-16 l^4 r R^3-48 l^2 r^3 R^3-64 r^5 R^3-8 l^4 R^4-24 l^2 r^2 R^4-96 r^4 R^4+144 l^2 r R^5-48 r^3 R^5+16 l^2 R^6-192 r^2 R^6-256 r R^7\right)\Big/\left((r+R)^2\left(-3 l^2+r^2+8 r R+12 R^2\right)^2\right)\Big\}$$

$$\left\{X29,\ \text{CEVAPOINT OF INCENTER AND ORTHOCENTER},\ X56,\ \text{EXSIMILICENTER(CIRCUMCIRCLE, INCIRCLE)},\right.$$
$$\left(-2 l^6 r^2-2 l^4 r^4+2 l^2 r^6+2 r^8+l^6 r R+7 l^4 r^3 R+11 l^2 r^5 R+5 r^7 R+l^6 R^2+26 l^4 r^2 R^2+9 l^2 r^4 R^2-16 r^6 R^2-32 l^4 r R^3-64 l^2 r^3 R^3-64 r^5 R^3-8 l^4 R^4-24 l^2 r^2 R^4-32 r^4 R^4+176 l^2 r R^5+48 r^3 R^5+16 l^2 R^6-128 r^2 R^6-256 r R^7\right)\Big/\left((r-R)^2\left(-3 l^2+r^2+8 r R+12 R^2\right)^2\right)\Big\}$$

$$\left\{X29,\ \text{CEVAPOINT OF INCENTER AND ORTHOCENTER},\ X57,\ \text{ISOGONAL CONJUGATE OF X(9)},\right.$$
$$\left(-5 l^6 r^2-7 l^4 r^4+l^2 r^6+3 r^8+8 l^6 r R+12 l^4 r^3 R+40 l^2 r^5 R+4 r^7 R+4 l^6 R^2-16 l^4 r^2 R^2+132 l^2 r^4 R^2-88 r^6 R^2-160 l^4 r R^3+224 l^2 r^3 R^3-416 r^5 R^3-32 l^4 R^4+592 l^2 r^2 R^4-848 r^4 R^4+768 l^2 r R^5-1216 r^3 R^5+64 l^2 R^6-1536 r^2 R^6-1024 r R^7\right)\Big/\left((r-2 R)^2\left(-3 l^2+r^2+8 r R+12 R^2\right)^2\right)\Big\}$$

$$\left\{X29,\ \text{CEVAPOINT OF INCENTER AND ORTHOCENTER},\ X58,\ \text{ISOGONAL CONJUGATE OF X(10)},\ \left(\left(l^2+r^2+2 r R\right)^2\left(l^2-3 r^2-4 r R-4 R^2\right)\left(l^4+10 l^2 r^2-7 r^4-20 l^2 r R-20 r^3 R-4 l^2 R^2+12 r^2 R^2+64 r R^3\right)\right)\Big/\left(\left(l^2-3 r^2-4 r R\right)^2\left(3 l^2-r^2-8 r R-12 R^2\right)^2\right)\Big\}$$

$$\left\{X29,\ \text{CEVAPOINT OF INCENTER AND ORTHOCENTER},\ X59,\ \text{ISOGONAL CONJUGATE OF X(11)},\ \frac{1}{(2 r-R)\left(-l^2+r^2+5 r R+4 R^2\right)^2\left(-3 l^2+r^2+8 r R+12 R^2\right)^2}\right.$$
$$\left(-l^{10} r+9 l^8 r^3+6 l^6 r^5-14 l^4 r^7-5 l^2 r^9+5 r^{11}-l^{10} R+2 l^8 r^2 R-26 l^6 r^4 R-116 l^4 r^6 R-13 l^2 r^8 R+74 r^{10} R+44 l^8 r R^2-112 l^6 r^3 R^2-232 l^4 r^5 R^2+208 l^2 r^7 R^2+412 r^9 R^2+16 l^8 R^3-180 l^6 r^2 R^3+92 l^4 r^4 R^3+1188 l^2 r^6 R^3+964 r^8 R^3-496 l^6 r R^4+752 l^4 r^3 R^4+2176 l^2 r^5 R^4+192 r^7 R^4-96 l^6 R^5+1728 l^4 r^2 R^5+928 l^2 r^4 R^5-3536 r^6 R^5+2368 l^4 r R^6-2368 l^2 r^3 R^6-6784 r^5 R^6+256 l^4 R^7-5696 l^2 r^2 R^7-4096 r^4 R^7-5120 l^2 r R^8+2304 r^3 R^8-256 l^2 R^9+6144 r^2 R^9+4096 r R^{10}\right)\Big\}$$

$$\left\{X29,\ \text{CEVAPOINT OF INCENTER AND ORTHOCENTER},\ X60,\ \text{ISOGONAL CONJUGATE OF X(12)},\right.$$
$$-\left(\left(\left(l^2+r^2+2 r R\right)^2\left(l^2 r-r^3-l^2 R-2 r^2 R+4 R^3\right)\left(2 l^4 r-20 l^2 r^3+10 r^5+l^4 R-42 l^2 r^2 R+69 r^4 R-28 l^2 r R^2+172 r^3 R^2-4 l^2 R^3+176 r^2 R^3+64 r R^4\right)\right)\Big/\left(\left(3 l^2-r^2-8 r R-12 R^2\right)^2\left(2 l^2 r-2 r^3+l^2 R-7 r^2 R-7 r R^2\right)^2\right)\right)\Big\}$$

$$\left\{X29,\ \text{CEVAPOINT OF INCENTER AND ORTHOCENTER},\ X61,\ \text{ISOGONAL CONJUGATE OF X(17)},\ \frac{1}{\left(3 l^2+2\sqrt{3}\, l r-3 r^2-12 r R\right)^2\left(3 l^2-r^2-8 r R-12 R^2\right)^2}\right.$$
$$3\left(3 l^{10}-2\sqrt{3}\, l^9 r+13 l^8 r^2+16\sqrt{3}\, l^7 r^3-2 l^6 r^4+28\sqrt{3}\, l^5 r^5-22 l^4 r^6-l^2 r^8-10\sqrt{3}\, l r^9+9 r^{10}-60 l^8 r R-16 l^6 r^3 R+32\sqrt{3}\, l^5 r^4 R-104 l^4 r^5 R-64\sqrt{3}\, l^3 r^6 R-16 l^2 r^7 R-96\sqrt{3}\, l r^8 R+132 r^9 R-24 l^8 R^2+16\sqrt{3}\, l^7 r R^2+16 l^6 r^2 R^2-32\sqrt{3}\, l^5 r^3 R^2+48 l^4 r^4 R^2-336\sqrt{3}\, l^3 r^5 R^2-16 l^2 r^6 R^2-288\sqrt{3}\, l r^7 R^2+744 r^8 R^2+384 l^6 r R^3+32\sqrt{3}\, l^5 r^2 R^3+704 l^4 r^3 R^3-576\sqrt{3}\, l^3 r^4 R^3-64 l^2 r^5 R^3-96\sqrt{3}\, l r^6 R^3+1920 r^7 R^3+48 l^6 R^4-32\sqrt{3}\, l^5 r R^4+496 l^4 r^2 R^4-384\sqrt{3}\, l^3 r^3 R^4-1072 l^2 r^4 R^4+1056\sqrt{3}\, l r^5 R^4+1680 r^6 R^4-576 l^4 r R^5-128\sqrt{3}\, l^3 r^2 R^5-2944 l^2 r^3 R^5+1920\sqrt{3}\, l r^4 R^5-2112 r^5 R^5-2304 l^2 r^2 R^6+1024\sqrt{3}\, l r^3 R^6-5376 r^4 R^6-3072 r^3 R^7\right)\Big\}$$

$$\Big\{\text{X29, CEVAPOINT OF INCENTER AND ORTHOCENTER, X62, ISOGONAL CONJUGATE OF X(18)}, \frac{1}{\left(3 l^2-2\sqrt{3}\, l r-3 r^2-12 r R\right)^2 \left(3 l^2-r^2-8 r R-12 R^2\right)^2}$$
$$3\Big(3 l^{10}+2\sqrt{3}\, l^9 r+13 l^8 r^2-16\sqrt{3}\, l^7 r^3-2 l^6 r^4-28\sqrt{3}\, l^5 r^5-22 l^4 r^6-l^2 r^8+10\sqrt{3}\, l r^9+9 r^{10}-$$
$$60 l^8 r R-16 l^6 r^3 R-32\sqrt{3}\, l^5 r^4 R-104 l^4 r^5 R+64\sqrt{3}\, l^3 r^6 R-16 l^2 r^7 R+96\sqrt{3}\, l r^8 R+$$
$$132 r^9 R-24 l^8 R^2-16\sqrt{3}\, l^7 r R^2+16 l^6 r^2 R^2+32\sqrt{3}\, l^5 r^3 R^2+48 l^4 r^4 R^2+336\sqrt{3}\, l^3 r^5 R^2-$$
$$16 l^2 r^6 R^2+288\sqrt{3}\, l r^7 R^2+744 r^8 R^2+384 l^6 r R^3-32\sqrt{3}\, l^5 r^2 R^3+704 l^4 r^3 R^3+576\sqrt{3}\, l^3 r^4 R^3-$$
$$64 l^2 r^5 R^3+96\sqrt{3}\, l r^6 R^3+1920 r^7 R^3+48 l^6 R^4+32\sqrt{3}\, l^5 r R^4+496 l^4 r^2 R^4+384\sqrt{3}\, l^3 r^3 R^4-$$
$$1072 l^2 r^4 R^4-1056\sqrt{3}\, l r^5 R^4+1680 r^6 R^4-576 l^4 r R^5+128\sqrt{3}\, l^3 r^2 R^5-2944 l^2 r^3 R^5-$$
$$1920\sqrt{3}\, l r^4 R^5-2112 r^5 R^5-2304 l^2 r^2 R^6-1024\sqrt{3}\, l r^3 R^6-5376 r^4 R^6-3072 r^3 R^7\Big)\Big\}$$

$$\Big\{\text{X29, CEVAPOINT OF INCENTER AND ORTHOCENTER, X63, ISOGONAL CONJUGATE OF X(19)},$$
$$\Big(-5 l^6 r^2-7 l^4 r^4+l^2 r^6+3 r^8+8 l^6 r R-16 l^4 r^3 R+32 l^2 r^5 R+24 r^7 R+4 l^6 R^2-64 l^4 r^2 R^2+$$
$$188 l^2 r^4 R^2+48 r^6 R^2-144 l^4 r R^3+544 l^2 r^3 R^3-144 r^5 R^3-32 l^4 R^4+912 l^2 r^2 R^4-928 r^4 R^4+$$
$$704 l^2 r R^5-2048 r^3 R^5+64 l^2 R^6-2240 r^2 R^6-1024 r R^7\Big)\Big/\Big((r+R)^2\left(-3 l^2+r^2+8 r R+12 R^2\right)^2\Big)\Big\}$$

$$\Big\{\text{X29, CEVAPOINT OF INCENTER AND ORTHOCENTER, X64, ISOGONAL CONJUGATE OF X(20)}, -\frac{1}{(l-r-2R)^2 (l+r+2R)^2 \left(3 l^2-r^2-8 r R-12 R^2\right)^2}$$
$$\Big(5 l^{10}+3 l^8 r^2-6 l^6 r^4-2 l^4 r^6+l^2 r^8-r^{10}-68 l^8 r R-16 l^6 r^3 R+40 l^4 r^5 R-16 l^2 r^7 R-$$
$$4 r^9 R-188 l^8 R^2+476 l^6 r^2 R^2+80 l^4 r^4 R^2-260 l^2 r^6 R^2+68 r^8 R^2+2144 l^6 r R^3-$$
$$2016 l^4 r^3 R^3-672 l^2 r^5 R^3+672 r^7 R^3+2352 l^6 R^4-10928 l^4 r^2 R^4+3824 l^2 r^4 R^4+2128 r^6 R^4-$$
$$20544 l^4 r R^5+27264 l^2 r^3 R^5-576 r^5 R^5-13376 l^4 R^6+67904 l^2 r^2 R^6-24384 r^4 R^6+$$
$$78848 l^2 r R^7-79872 r^3 R^7+35840 l^2 R^8-128000 r^2 R^8-106496 r R^9-36864 R^{10}\Big)\Big\}$$

$$\Big\{\text{X29, CEVAPOINT OF INCENTER AND ORTHOCENTER, X65, ORTHOCENTER OF THE INTOUCH TRIANGLE},$$
$$-\Big(\Big(\left(-l^2+3 r^2+4 r R+4 R^2\right)\left(3 l^4 r-4 l^2 r^3+r^5+l^4 R-23 l^2 r^2 R+12 r^4 R-\right.$$
$$\left.32 l^2 r R^2+52 r^3 R^2-4 l^2 R^3+96 r^2 R^3+64 r R^4\right)\Big)\Big/\Big(R\left(-3 l^2+r^2+8 r R+12 R^2\right)^2\Big)\Big)\Big\}$$

$$\Big\{\text{X29, CEVAPOINT OF INCENTER AND ORTHOCENTER, X66, ISOGONAL CONJUGATE OF X(22)},$$
$$-\Big(\Big(2 l^{14}-42 l^{12} r^2+170 l^{10} r^4-306 l^8 r^6+294 l^6 r^8-158 l^4 r^{10}+46 l^2 r^{12}-6 r^{14}-64 l^{12} r R+$$
$$928 l^{10} r^3 R-2976 l^8 r^5 R+4160 l^6 r^7 R-2944 l^4 r^9 R+1056 l^2 r^{11} R-160 r^{13} R-23 l^{12} R^2+$$
$$1434 l^{10} r^2 R^2-10545 l^8 r^4 R^2+23660 l^6 r^6 R^2-23225 l^4 r^8 R^2+10618 l^2 r^{10} R^2-1919 r^{12} R^2+$$
$$672 l^{10} r R^3-16544 l^8 r^3 R^3+69088 l^6 r^5 R^3-100896 l^4 r^7 R^3+61312 l^2 r^9 R^3-13632 r^{11} R^3+$$
$$84 l^{10} R^4-10980 l^8 r^2 R^4+109112 l^6 r^4 R^4-262296 l^4 r^6 R^4+223732 l^2 r^8 R^4-63492 r^{10} R^4-$$
$$2256 l^8 r R^5+88960 l^6 r^3 R^5-413536 l^4 r^5 R^5+533888 l^2 r^7 R^5-202448 r^9 R^5-80 l^8 R^6+$$
$$31024 l^6 r^2 R^6-379520 l^4 r^4 R^6+830640 l^2 r^6 R^6-447056 r^8 R^6+2176 l^6 r R^7-179328 l^4 r^3 R^7+$$
$$809600 l^2 r^5 R^7-673920 r^7 R^7-64 l^6 R^8-30400 l^4 r^2 R^8+447936 l^2 r^4 R^8-661440 r^6 R^8+$$
$$768 l^4 r R^9+110080 l^2 r^3 R^9-378112 r^5 R^9+3840 l^2 r^2 R^{10}-91136 r^4 R^{10}+4096 r^3 R^{11}\Big)\Big/$$
$$\Big((l-r-2R)^2 (l+r+2R)^2 \left(l^2-r^2-4 r R\right)^2 \left(3 l^2-r^2-8 r R-12 R^2\right)^2\Big)\Big)\Big\}$$

$$\Big\{\text{X29, CEVAPOINT OF INCENTER AND ORTHOCENTER, X67, ISOGONAL CONJUGATE OF X(23)},$$
$$\Big(2 l^{12}+72 l^{10} r^2-270 l^8 r^4+368 l^6 r^6-234 l^4 r^8+72 l^2 r^{10}-10 r^{12}-24 l^{10} r R-$$
$$1176 l^8 r^3 R+3312 l^6 r^5 R-3216 l^4 r^7 R+1320 l^2 r^9 R-216 r^{11} R-25 l^{10} R^2-$$
$$1087 l^8 r^2 R^2+10430 l^6 r^4 R^2-17366 l^4 r^6 R^2+10075 l^2 r^8 R^2-2027 r^{10} R^2+308 l^8 r R^3+$$
$$13584 l^6 r^3 R^3-47112 l^4 r^5 R^3+41488 l^2 r^7 R^3-10764 r^9 R^3+104 l^8 R^4+5436 l^6 r^2 R^4-$$
$$67512 l^4 r^4 R^4+99868 l^2 r^6 R^4-35160 r^8 R^4-1280 l^6 r R^5-47552 l^4 r^3 R^5+$$
$$142144 l^2 r^5 R^5-71424 r^7 R^5-144 l^6 R^6-11184 l^4 r^2 R^6+115120 l^2 r^4 R^6-85424 r^6 R^6+$$
$$1728 l^4 r R^7+48256 l^2 r^3 R^7-48960 r^5 R^7+8640 l^2 r^2 R^8-256 r^4 R^8+9216 r^3 R^9\Big)\Big/$$
$$\Big(\left(l^2-r^2-4 r R\right)^2 \left(3 l^2-r^2-8 r R-12 R^2\right)^2 \left(2 l^2-2 r^2-8 r R-9 R^2\right)\Big)\Big\}$$

$$\Big\{X29,\ \text{CEVAPOINT OF INCENTER AND ORTHOCENTER},\ X68,$$

$$\text{PRASOLOV POINT},\ -\frac{1}{(l-r-2R)^2\,(l+r+2R)^2\,\left(3l^2-r^2-8rR-12R^2\right)^2}$$

$$\Big(2l^{10}-38l^8r^2+92l^6r^4-84l^4r^6+34l^2r^8-6r^{10}-48l^8rR+512l^6r^3R-864l^4r^5R+512l^2r^7R-112r^9R-35l^8R^2+964l^6r^2R^2-3474l^4r^4R^2+3236l^2r^6R^2-931r^8R^2+664l^6rR^3-6952l^4r^3R^3+11176l^2r^5R^3-4504r^7R^3+228l^6R^4-7052l^4r^2R^4+22940l^2r^4R^4-13940r^6R^4-3280l^4rR^5+28256l^2r^3R^5-28624r^5R^5-692l^4R^6+19768l^2r^2R^6-39124r^4R^6+6848l^2rR^7-34624r^3R^7+992l^2R^8-18464r^2R^8-5120rR^9-576R^{10}\Big)\Big\}$$

$$\Big\{X29,\ \text{CEVAPOINT OF INCENTER AND ORTHOCENTER},\ X69,$$

$$\text{SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},\ \frac{1}{\left(l^2-r^2-4rR\right)^2\left(3l^2-r^2-8rR-12R^2\right)^2}$$

$$4\Big(l^{10}+9l^8r^2-26l^6r^4+22l^4r^6-7l^2r^8+r^{10}-16l^8rR-96l^6r^3R+192l^4r^5R-96l^2r^7R+16r^9R-8l^8R^2-84l^6r^2R^2+564l^4r^4R^2-492l^2r^6R^2+100r^8R^2+112l^6rR^3+800l^4r^3R^3-1200l^2r^5R^3+288r^7R^3+16l^6R^4+448l^4r^2R^4-1616l^2r^4R^4+256r^6R^4-192l^4rR^5-1536l^2r^3R^5-576r^5R^5-960l^2r^2R^6-1536r^4R^6-1024r^3R^7\Big)\Big\}$$

$$\Big\{X29,\ \text{CEVAPOINT OF INCENTER AND ORTHOCENTER},\ X70,\ \text{ISOGONAL CONJUGATE OF } X(26),$$

$$-\Big(\Big(2l^{14}-42l^{12}r^2+170l^{10}r^4-306l^8r^6+294l^6r^8-158l^4r^{10}+46l^2r^{12}-6r^{14}-64l^{12}rR+928l^{10}r^3R-2976l^8r^5R+4160l^6r^7R-2944l^4r^9R+1056l^2r^{11}R-160r^{13}R-37l^{12}R^2+1602l^{10}r^2R^2-11055l^8r^4R^2+24348l^6r^6R^2-23699l^4r^8R^2+10786l^2r^{10}R^2-1945r^{12}R^2+1032l^{10}rR^3-19640l^8r^3R^3+76240l^6r^5R^3-107952l^4r^7R^3+64552l^2r^9R^3-14232r^{11}R^3+282l^{10}R^4-17014l^8r^2R^4+137532l^6r^4R^4-305732l^4r^6R^4+250794l^2r^8R^4-69702r^{10}R^4-6656l^8rR^5+142848l^6r^3R^5-556096l^4r^5R^5+661760l^2r^7R^5-240320r^9R^5-1139l^8R^6+80480l^6r^2R^6-646862l^4r^4R^6+1204760l^2r^6R^6-597319r^8R^6+21808l^6rR^7-463296l^4r^3R^7+1505520l^2r^5R^7-1077792r^7R^7+2604l^6R^8-188444l^4r^2R^8+1259380l^2r^4R^8-1403204r^6R^8-37920l^4rR^9+670976l^2r^3R^9-1293792r^5R^9-3316l^4R^{10}+208808l^2r^2R^{10}-817716r^4R^{10}+32800l^2rR^{11}-336928r^3R^{11}+2144l^2R^{12}-83744r^2R^{12}-10880rR^{13}-576R^{14}\Big)\Big/\Big(\left(3l^2-r^2-8rR-12R^2\right)^2\left(l^4-2l^2r^2+r^4-8l^2rR+8r^3R-6l^2R^2+22r^2R^2+24rR^3+7R^4\right)^2\Big)\Big)\Big\}$$

$$\Big\{X29,\ \text{CEVAPOINT OF INCENTER AND ORTHOCENTER},\ X71,$$

$$\text{ISOGONAL CONJUGATE OF } X(27),\ -\frac{1}{\left(3l^2-r^2-8rR-12R^2\right)^2\left(l^2+r^2+6rR+8R^2\right)^2}$$

$$\Big(5l^{10}+17l^8r^2+18l^6r^4+2l^4r^6-7l^2r^8-3r^{10}+8l^8rR+32l^6r^3R-16l^4r^5R-96l^2r^7R-56r^9R-92l^8R^2-8l^6r^2R^2-240l^4r^4R^2-504l^2r^6R^2-436r^8R^2+240l^6rR^3-944l^4r^3R^3-1200l^2r^5R^3-1808r^7R^3+480l^6R^4-1744l^4r^2R^4-896l^2r^4R^4-4112r^6R^4-1664l^4rR^5+1408l^2r^3R^5-4096r^5R^5-704l^4R^6+2944l^2r^2R^6+2368r^4R^6+1280l^2rR^7+11008r^3R^7-256l^2R^8+11264r^2R^8+4096rR^9\Big)\Big\}$$

$$\Big\{X29,\ \text{CEVAPOINT OF INCENTER AND ORTHOCENTER},\ X72,\ \text{ISOGONAL CONJUGATE OF } X(28),$$

$$-\Big(\Big(-6l^6r+20l^4r^3-6l^2r^5-4l^6R+95l^4r^2R-102l^2r^4R+7r^6R+128l^4rR^2-488l^2r^3R^2+120r^5R^2+32l^4R^3-936l^2r^2R^3+680r^4R^3-672l^2rR^4+1760r^3R^4-64l^2R^5+2160r^2R^5+1024rR^6\Big)\Big/\Big(R\left(-3l^2+r^2+8rR+12R^2\right)^2\Big)\Big)\Big\}$$

$$\Big\{X29,\ \text{CEVAPOINT OF INCENTER AND ORTHOCENTER},\ X73,$$

$$\text{CROSSPOINT OF INCENTER AND CIRCUMCENTER},\ \frac{1}{\left(3l^2-r^2-8rR-12R^2\right)^2\left(l^2+r^2-2rR-4R^2\right)^2}$$

$$\Big(l^{10}+5l^8r^2+10l^6r^4+10l^4r^6+5l^2r^8+r^{10}-28l^8rR-32l^6r^3R+8l^4r^5R-12r^9R-16l^8R^2+24l^6r^2R^2+200l^4r^4R^2-184l^2r^6R^2-88r^8R^2+400l^6rR^3+656l^4r^3R^3-1232l^2r^5R^3+48r^7R^3+96l^6R^4-560l^4r^2R^4-3776l^2r^4R^4+1808r^6R^4-2112l^4rR^5-4096l^2r^3R^5+6720r^5R^5-256l^4R^6+2048l^2r^2R^6+11520r^4R^6+4864l^2rR^7+7936r^3R^7+256l^2R^8-2048r^2R^8-4096rR^9\Big)\Big\}$$

$$\Big\{X29,\ \text{CEVAPOINT OF INCENTER AND ORTHOCENTER},\ X74,$$

$$\text{ISOGONAL CONJUGATE OF EULER INFINITY POINT},\ -\frac{1}{\left(3\,l^2-r^2-8\,r\,R-12\,R^2\right)^2\left(2\,l^2-2\,r^2-8\,r\,R-9\,R^2\right)}$$

$$\left(7\,l^8+8\,l^6\,r^2-2\,l^4\,r^4+3\,r^8-64\,l^6\,r\,R-48\,l^4\,r^3\,R+32\,l^2\,r^5\,R+16\,r^7\,R-164\,l^6\,R^2+164\,l^4\,r^2\,R^2+228\,l^2\,r^4\,R^2-36\,r^6\,R^2+1152\,l^4\,r\,R^3+64\,l^2\,r^3\,R^3-448\,r^5\,R^3+1300\,l^4\,R^4-2536\,l^2\,r^2\,R^4-940\,r^4\,R^4-6176\,l^2\,r\,R^5+1056\,r^3\,R^5-4320\,l^2\,R^6+7072\,r^2\,R^6+10\,368\,r\,R^7+5184\,R^8\right)\Big\}$$

$$\Big\{X29,\ \text{CEVAPOINT OF INCENTER AND ORTHOCENTER},\ X75,$$

$$\text{ISOTOMIC CONJUGATE OF INCENTER},\ \frac{1}{\left(l^2+r^2+4\,r\,R\right)^2\left(3\,l^2-r^2-8\,r\,R-12\,R^2\right)^2}$$

$$4\left(l^{10}+l^8\,r^2-2\,l^6\,r^4-2\,l^4\,r^6+l^2\,r^8+r^{10}-24\,l^8\,r\,R+40\,l^6\,r^3\,R-56\,l^4\,r^5\,R+24\,l^2\,r^7\,R+16\,r^9\,R-8\,l^8\,R^2+156\,l^6\,r^2\,R^2-396\,l^4\,r^4\,R^2+244\,l^2\,r^6\,R^2+100\,r^8\,R^2+176\,l^6\,r\,R^3-960\,l^4\,r^3\,R^3+1200\,l^2\,r^5\,R^3+288\,r^7\,R^3+16\,l^6\,R^4-896\,l^4\,r^2\,R^4+2864\,l^2\,r^4\,R^4+256\,r^6\,R^4-320\,l^4\,r\,R^5+3072\,l^2\,r^3\,R^5-576\,r^5\,R^5+1088\,l^2\,r^2\,R^6-1536\,r^4\,R^6-1024\,r^3\,R^7\right)\Big\}$$

$$\Big\{X29,\ \text{CEVAPOINT OF INCENTER AND ORTHOCENTER},\ X76,\ \text{3rd BROCARD POINT},$$

$$\left(4\left(l^{14}+3\,l^{12}\,r^2+l^{10}\,r^4-5\,l^8\,r^6-5\,l^6\,r^8+l^4\,r^{10}+3\,l^2\,r^{12}+r^{14}-24\,l^{12}\,r\,R-32\,l^{10}\,r^3\,R+8\,l^8\,r^5\,R-8\,l^4\,r^9\,R+32\,l^2\,r^{11}\,R+24\,r^{13}\,R-8\,l^{12}\,R^2+108\,l^{10}\,r^2\,R^2+420\,l^8\,r^4\,R^2-440\,l^6\,r^6\,R^2+112\,l^4\,r^8\,R^2+76\,l^2\,r^{10}\,R^2+244\,r^{12}\,R^2+176\,l^{10}\,r\,R^3+256\,l^8\,r^3\,R^3-2720\,l^6\,r^5\,R^3+1728\,l^4\,r^7\,R^3-272\,l^2\,r^9\,R^3+1344\,r^{11}\,R^3+16\,l^{10}\,R^4-672\,l^8\,r^2\,R^4-4864\,l^6\,r^4\,R^4+7520\,l^4\,r^6\,R^4-1552\,l^2\,r^8\,R^4+4160\,r^{10}\,R^4-320\,l^8\,r\,R^5-1664\,l^6\,r^3\,R^5+15\,488\,l^4\,r^5\,R^5-2688\,l^2\,r^7\,R^5+6080\,r^9\,R^5+832\,l^6\,r^2\,R^6+14\,464\,l^4\,r^4\,R^6-3776\,l^2\,r^6\,R^6-2048\,r^8\,R^6+3584\,l^4\,r^3\,R^7-7680\,l^2\,r^5\,R^7-22\,528\,r^7\,R^7-7168\,l^2\,r^4\,R^8-32\,768\,r^6\,R^8-16\,384\,r^5\,R^9\right)\right)\Big/\left(\left(3\,l^2-r^2-8\,r\,R-12\,R^2\right)^2\left(l^4+2\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R+16\,r^2\,R^2\right)^2\right)\Big\}$$

$$\Big\{X29,\ \text{CEVAPOINT OF INCENTER AND ORTHOCENTER},$$

$$X77,\ \text{ISOGONAL CONJUGATE OF X(33)},\ \left(\left(l^2-2\,r\,R-4\,R^2\right)^2\left(l^6+3\,l^4\,r^2+3\,l^2\,r^4+r^6-28\,l^4\,r\,R+16\,l^2\,r^3\,R+12\,r^5\,R-8\,l^4\,R^2+56\,l^2\,r^2\,R^2+48\,r^4\,R^2+176\,l^2\,r\,R^3+48\,r^3\,R^3+16\,l^2\,R^4-128\,r^2\,R^4-256\,r\,R^5\right)\right)\Big/\left(\left(3\,l^2-r^2-8\,r\,R-12\,R^2\right)^2\left(l^2-r\,R-4\,R^2\right)^2\right)\Big\}$$

$$\Big\{X29,\ \text{CEVAPOINT OF INCENTER AND ORTHOCENTER},\ X78,\ \text{ISOGONAL CONJUGATE OF X(34)},$$

$$\left((r+2\,R)^2\left(l^6+3\,l^4\,r^2+3\,l^2\,r^4+r^6-20\,l^4\,r\,R-12\,r^5\,R-8\,l^4\,R^2+40\,l^2\,r^2\,R^2-32\,r^4\,R^2+144\,l^2\,r\,R^3-48\,r^3\,R^3+16\,l^2\,R^4-192\,r^2\,R^4-256\,r\,R^5\right)\right)\Big/\left((r-R)^2\left(-3\,l^2+r^2+8\,r\,R+12\,R^2\right)^2\right)\Big\}$$

$$\Big\{X29,\ \text{CEVAPOINT OF INCENTER AND ORTHOCENTER},\ X79,$$

$$\text{ISOGONAL CONJUGATE OF X(35)},\ \frac{1}{(2\,r+3\,R)^2\left(-3\,l^2+r^2+8\,r\,R+12\,R^2\right)^2}$$

$$\left(-56\,l^6\,r^2+104\,l^4\,r^4-72\,l^2\,r^6+24\,r^8+30\,l^6\,r\,R+514\,l^4\,r^3\,R-726\,l^2\,r^5\,R+326\,r^7\,R+9\,l^6\,R^2+427\,l^4\,r^2\,R^2-2629\,l^2\,r^4\,R^2+1881\,r^6\,R^2-456\,l^4\,r\,R^3-3720\,l^2\,r^3\,R^3+5792\,r^5\,R^3-72\,l^4\,R^4-656\,l^2\,r^2\,R^4+9672\,r^4\,R^4+1920\,l^2\,r\,R^5+7328\,r^3\,R^5+144\,l^2\,R^6-48\,r^2\,R^6-2304\,r\,R^7\right)\Big\}$$

$$\Big\{X29,\ \text{CEVAPOINT OF INCENTER AND ORTHOCENTER},\ X80,\ \text{REFLECTION OF INCENTER IN FEUERBACH POINT},$$

$$\left(-4\,l^6\,r+44\,l^4\,r^3-60\,l^2\,r^5+20\,r^7-l^6\,R+85\,l^4\,r^2\,R-387\,l^2\,r^4\,R+231\,r^6\,R+56\,l^4\,r\,R^2-824\,l^2\,r^3\,R^2+1040\,r^5\,R^2+8\,l^4\,R^3-688\,l^2\,r^2\,R^3+2296\,r^4\,R^3-224\,l^2\,r\,R^4+2560\,r^3\,R^4-16\,l^2\,R^5+1328\,r^2\,R^5+256\,r\,R^6\right)\Big/\left((2\,r-R)\left(-3\,l^2+r^2+8\,r\,R+12\,R^2\right)^2\right)\Big\}$$

$$\Big\{X29,\ \text{CEVAPOINT OF INCENTER AND ORTHOCENTER},\ X81,\ \text{CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},$$

$$\left(\left(l^2+r^2+2\,r\,R\right)^2\left(l^6+5\,l^4\,r^2-9\,l^2\,r^4+3\,r^6-24\,l^4\,r\,R+4\,l^2\,r^3\,R+12\,r^5\,R-8\,l^4\,R^2+72\,l^2\,r^2\,R^2-12\,r^4\,R^2+160\,l^2\,r\,R^3-144\,r^3\,R^3+16\,l^2\,R^4-304\,r^2\,R^4-256\,r\,R^5\right)\right)\Big/\left(\left(l^2-r^2-r\,R\right)^2\left(3\,l^2-r^2-8\,r\,R-12\,R^2\right)^2\right)\Big\}$$

$$\{X29,\ \text{CEVAPOINT OF INCENTER AND ORTHOCENTER},\ X82,\ \text{ISOGONAL CONJUGATE OF } X(38),$$
$$\big(l^{14}+7 l^{12} r^2-39 l^{10} r^4+7 l^8 r^6+75 l^6 r^8-35 l^4 r^{10}-37 l^2 r^{12}+21 r^{14}-36 l^{12} r R-72 l^{10} r^3 R+$$
$$260 l^8 r^5 R+464 l^6 r^7 R-604 l^4 r^9 R-392 l^2 r^{11} R+380 r^{13} R-8 l^{12} R^2+388 l^{10} r^2 R^2+$$
$$476 l^8 r^4 R^2+152 l^6 r^6 R^2-3072 l^4 r^8 R^2-1308 l^2 r^{10} R^2+2860 r^{12} R^2+256 l^{10} r R^3-2016 l^8 r^3 R^3-$$
$$1216 l^6 r^5 R^3-5248 l^4 r^7 R^3-832 l^2 r^9 R^3+11616 r^{11} R^3+16 l^{10} R^4-2544 l^8 r^2 R^4+4912 l^6 r^4 R^4-$$
$$1712 l^4 r^6 R^4+2688 l^2 r^8 R^4+27744 r^{10} R^4-448 l^8 r R^5+10944 l^6 r^3 R^5-5632 l^4 r^5 R^5+$$
$$2752 l^2 r^7 R^5+40256 r^9 R^5+3776 l^6 r^2 R^6-19712 l^4 r^4 R^6+2112 l^2 r^6 R^6+36096 r^8 R^6-$$
$$12032 l^4 r^3 R^7+12800 l^2 r^5 R^7+19200 r^7 R^7+12544 l^2 r^4 R^8+2048 r^6 R^8-4096 r^5 R^9\big)\Big/$$
$$\big((3 l^2-r^2-8 r R-12 R^2)^2\,(l^4-4 l^2 r^2+3 r^4-9 l^2 r R+19 r^3 R+28 r^2 R^2)^2\big)\}$$

$$\{X29,\ \text{CEVAPOINT OF INCENTER AND ORTHOCENTER},\ X83,\ \text{CEVAPOINT OF CENTROID AND SYMMEDIAN POINT},$$
$$\big(4\,(l^{14}+7 l^{12} r^2-39 l^{10} r^4+7 l^8 r^6+75 l^6 r^8-35 l^4 r^{10}-37 l^2 r^{12}+21 r^{14}-32 l^{12} r R+48 l^{10} r^3 R-$$
$$144 l^8 r^5 R+736 l^6 r^7 R-320 l^4 r^9 R-784 l^2 r^{11} R+496 r^{13} R-8 l^{12} R^2+156 l^{10} r^2 R^2-$$
$$300 l^8 r^4 R^2+1768 l^6 r^6 R^2-368 l^4 r^8 R^2-6788 l^2 r^{10} R^2+5028 r^{12} R^2+208 l^{10} r R^3+32 l^8 r^3 R^3-$$
$$992 l^6 r^5 R^3+4992 l^4 r^7 R^3-31216 l^2 r^9 R^3+28512 r^{11} R^3+16 l^{10} R^4-800 l^8 r^2 R^4-6016 l^6 r^4 R^4+$$
$$22240 l^4 r^6 R^4-82832 l^2 r^8 R^4+98624 r^{10} R^4-320 l^8 r R^5-2688 l^6 r^3 R^5+36992 l^4 r^5 R^5-$$
$$128640 l^2 r^7 R^5+211904 r^9 R^5+832 l^6 r^2 R^6+24704 l^4 r^4 R^6-112320 l^2 r^6 R^6+272384 r^8 R^6+$$
$$3584 l^4 r^3 R^7-48640 l^2 r^5 R^7+182272 r^7 R^7-7168 l^2 r^4 R^8+32768 r^6 R^8-16384 r^5 R^9)\big)\Big/$$
$$\big((3 l^2-r^2-8 r R-12 R^2)^2\,(5 l^4-6 l^2 r^2+5 r^4-40 l^2 r R+40 r^3 R+80 r^2 R^2)^2\big)\}$$

$$\{X29,\ \text{CEVAPOINT OF INCENTER AND ORTHOCENTER},$$
$$X84,\ \text{ISOGONAL CONJUGATE OF } X(40),\ \frac{1}{r^2\,(-3 l^2+r^2+8 r R+12 R^2)^2}$$
$$\big(-5 l^6 r^2-7 l^4 r^4+l^2 r^6+3 r^8+36 l^6 r R-8 l^4 r^3 R+12 l^2 r^5 R+24 r^7 R-36 l^6 R^2-$$
$$128 l^4 r^2 R^2+44 l^2 r^4 R^2+88 r^6 R^2-96 l^4 r R^3+192 l^2 r^3 R^3+192 r^5 R^3+432 l^4 R^4+$$
$$240 l^2 r^2 R^4+256 r^4 R^4-960 l^2 r R^5+384 r^3 R^5-1728 l^2 R^6+1408 r^2 R^6+3072 r R^7+2304 R^8\big)\}$$

$$\{X29,\ \text{CEVAPOINT OF INCENTER AND ORTHOCENTER},\ X85,\ \text{ISOTOMIC CONJUGATE OF } X(9),$$
$$\big(4\,(l^2-r^2-6 r R-8 R^2)^2\,(l^6+3 l^4 r^2+3 l^2 r^4+r^6-28 l^4 r R+16 l^2 r^3 R+12 r^5 R-$$
$$8 l^4 R^2+56 l^2 r^2 R^2+48 r^4 R^2+176 l^2 r R^3+48 r^3 R^3+16 l^2 R^4-128 r^2 R^4-256 r R^5)\big)\Big/$$
$$\big((3 l^2-r^2-8 r R-12 R^2)^2\,(l^2+r^2+8 r R+16 R^2)^2\big)\}$$

$$\{X29,\ \text{CEVAPOINT OF INCENTER AND ORTHOCENTER},$$
$$X86,\ \text{CEVAPOINT OF INCENTER AND CENTROID},\ \big(4\,(l^2+r^2+2 r R)^2$$
$$(l^6+3 l^4 r^2+3 l^2 r^4+r^6-28 l^4 r R+16 l^2 r^3 R+12 r^5 R-8 l^4 R^2+56 l^2 r^2 R^2+48 r^4 R^2+176 l^2 r R^3+$$
$$48 r^3 R^3+16 l^2 R^4-128 r^2 R^4-256 r R^5)\big)\Big/\big((5 l^2+r^2+4 r R)^2\,(3 l^2-r^2-8 r R-12 R^2)^2\big)\}$$

$$\{X29,\ \text{CEVAPOINT OF INCENTER AND ORTHOCENTER},\ X87,\ X(2)\text{-CROSS CONJUGATE OF } X(1),$$
$$\big(l^{14}+7 l^{12} r^2+21 l^{10} r^4+35 l^8 r^6+35 l^6 r^8+21 l^4 r^{10}+7 l^2 r^{12}+r^{14}-40 l^{12} r R-200 l^{10} r^3 R-$$
$$368 l^8 r^5 R-272 l^6 r^7 R-8 l^4 r^9 R+88 l^2 r^{11} R+32 r^{13} R-8 l^{12} R^2+496 l^{10} r^2 R^2+1560 l^8 r^4 R^2+$$
$$992 l^6 r^6 R^2-280 l^4 r^8 R^2+176 l^2 r^{10} R^2+392 r^{12} R^2+288 l^{10} r R^3-1152 l^8 r^3 R^3-320 l^6 r^5 R^3-$$
$$1920 l^4 r^7 R^3-736 l^2 r^9 R^3+2304 r^{11} R^3+16 l^{10} R^4-3184 l^8 r^2 R^4-13536 l^6 r^4 R^4-$$
$$1120 l^4 r^6 R^4-1072 l^2 r^8 R^4+6096 r^{10} R^4-512 l^8 r R^5+6912 l^6 r^3 R^5+31488 l^4 r^5 R^5+$$
$$7424 l^2 r^7 R^5-256 r^9 R^5+4608 l^6 r^2 R^6+55808 l^4 r^4 R^6+5632 l^2 r^6 R^6-45568 r^8 R^6-$$
$$4096 l^4 r^3 R^7-45056 l^2 r^5 R^7-122880 r^7 R^7-61440 l^2 r^4 R^8-143360 r^6 R^8-65536 r^5 R^9\big)\Big/$$
$$\big((3 l^2-r^2-8 r R-12 R^2)^2\,(l^4+2 l^2 r^2+r^4-20 l^2 r R+12 r^3 R+32 r^2 R^2)^2\big)\}$$

$$\{X29,\ \text{CEVAPOINT OF INCENTER AND ORTHOCENTER},\ X88,$$
$$\text{ISOGONAL CONJUGATE OF } X(44),\ \frac{1}{(l^2+3 r^2-15 r R)^2\,(3 l^2-r^2-8 r R-12 R^2)^2}$$
$$\big(l^{10}-9 l^8 r^2-54 l^6 r^4-50 l^4 r^6+21 l^2 r^8+27 r^{10}-36 l^8 r R+212 l^6 r^3 R+324 l^4 r^5 R+$$
$$444 l^2 r^7 R-144 r^9 R-8 l^8 R^2+524 l^6 r^2 R^2-336 l^4 r^4 R^2+60 l^2 r^6 R^2-1440 r^8 R^2+$$
$$256 l^6 r R^3-3728 l^4 r^3 R^3-2688 l^2 r^5 R^3-1584 r^7 R^3+16 l^6 R^4-2800 l^4 r^2 R^4+2832 l^2 r^4 R^4+$$
$$7200 r^6 R^4-448 l^4 r R^5+12288 l^2 r^3 R^5+16128 r^5 R^5+3648 l^2 r^2 R^6+2880 r^4 R^6-9216 r^3 R^7\big)\}$$

$$\Big\{X29,\ \text{CEVAPOINT OF INCENTER AND ORTHOCENTER},\ X89,$$

$$\text{ISOGONAL CONJUGATE OF } X(45),\ \frac{1}{\left(2\,l^2-6\,r^2+3\,r\,R\right)^2\left(3\,l^2-r^2-8\,r\,R-12\,R^2\right)^2}$$

$$4\left(l^{10}+15\,l^8\,r^2-30\,l^6\,r^4-74\,l^4\,r^6-3\,l^2\,r^8+27\,r^{10}-12\,l^8\,r\,R-34\,l^6\,r^3\,R-18\,l^4\,r^5\,R+258\,l^2\,r^7\,R+126\,r^9\,R-8\,l^8\,R^2-256\,l^6\,r^2\,R^2+108\,l^4\,r^4\,R^2+1272\,l^2\,r^6\,R^2-252\,r^8\,R^2+64\,l^6\,r\,R^3+376\,l^4\,r^3\,R^3+2688\,l^2\,r^5\,R^3-3096\,r^7\,R^3+16\,l^6\,R^4+1472\,l^4\,r^2\,R^4+3792\,l^2\,r^4\,R^4-9756\,r^6\,R^4-64\,l^4\,r\,R^5+1536\,l^2\,r^3\,R^5-17\,136\,r^5\,R^5-2496\,l^2\,r^2\,R^6-18\,288\,r^4\,R^6-9216\,r^3\,R^7\right)\Big\}$$

$$\Big\{X29,\ \text{CEVAPOINT OF INCENTER AND ORTHOCENTER},\ X90,$$

$$X(3)\text{-CROSS CONJUGATE OF } X(1),\ -\frac{1}{\left(3\,l^2-r^2-8\,r\,R-12\,R^2\right)^2\left(r^2+2\,r\,R-R^2\right)^2}$$

$$\left(5\,l^6\,r^4+7\,l^4\,r^6-l^2\,r^8-3\,r^{10}-22\,l^6\,r^3\,R+26\,l^4\,r^5\,R-18\,l^2\,r^7\,R-34\,r^9\,R+4\,l^6\,r^2\,R^2+108\,l^4\,r^4\,R^2-100\,l^2\,r^6\,R^2-156\,r^8\,R^2-2\,l^6\,r\,R^3+174\,l^4\,r^3\,R^3-334\,l^2\,r^5\,R^3-350\,r^7\,R^3-l^6\,R^4+5\,l^4\,r^2\,R^4-691\,l^2\,r^4\,R^4-281\,r^6\,R^4+40\,l^4\,r\,R^5-696\,l^2\,r^3\,R^5+448\,r^5\,R^5+8\,l^4\,R^6-304\,l^2\,r^2\,R^6+1400\,r^4\,R^6-192\,l^2\,r\,R^7+1504\,r^3\,R^7-16\,l^2\,R^8+816\,r^2\,R^8+256\,r\,R^9\right)\Big\}$$

$$\Big\{X29,\ \text{CEVAPOINT OF INCENTER AND ORTHOCENTER},\ X91,\ \text{ISOGONAL CONJUGATE OF } X(47),$$

$$\left(4\,l^{10}\,r^2+4\,l^8\,r^4-8\,l^6\,r^6-8\,l^4\,r^8+4\,l^2\,r^{10}+4\,r^{12}+4\,l^{10}\,r\,R-108\,l^8\,r^3\,R+152\,l^6\,r^5\,R-200\,l^4\,r^7\,R+100\,l^2\,r^9\,R+52\,r^{11}\,R+l^{10}\,R^2-167\,l^8\,r^2\,R^2+1066\,l^6\,r^4\,R^2-1742\,l^4\,r^6\,R^2+1093\,l^2\,r^8\,R^2+229\,r^{10}\,R^2-80\,l^8\,r\,R^3+2312\,l^6\,r^3\,R^3-6856\,l^4\,r^5\,R^3+6360\,l^2\,r^7\,R^3-8\,r^9\,R^3-12\,l^8\,R^4+1784\,l^6\,r^2\,R^4-14\,080\,l^4\,r^4\,R^4+21\,416\,l^2\,r^6\,R^4-4180\,r^8\,R^4+544\,l^6\,r\,R^5-15\,200\,l^4\,r^3\,R^5+43\,616\,l^2\,r^5\,R^5-19\,488\,r^7\,R^5+52\,l^6\,R^6-7684\,l^4\,r^2\,R^6+54\,076\,l^2\,r^4\,R^6-47\,052\,r^6\,R^6-1632\,l^4\,r\,R^7+38\,944\,l^2\,r^3\,R^7-68\,992\,r^5\,R^7-96\,l^4\,R^8+14\,272\,l^2\,r^2\,R^8-62\,752\,r^4\,R^8+2176\,l^2\,r\,R^9-33\,792\,r^3\,R^9+64\,l^2\,R^{10}-9408\,r^2\,R^{10}-1024\,r\,R^{11}\right)\Big/\left(\left(3\,l^2-r^2-8\,r\,R-12\,R^2\right)^2\left(l^2\,r+r^3-l^2\,R+3\,r^2\,R+2\,r\,R^2+2\,R^3\right)^2\right)\Big\}$$

$$\Big\{X29,\ \text{CEVAPOINT OF INCENTER AND ORTHOCENTER},\ X92,$$

$$\text{CEVAPOINT OF INCENTER AND CLAWSON POINT},\ \Big(4\,(l-r-2\,R)^2\,(l+r+2\,R)^2\left(l^6+3\,l^4\,r^2+3\,l^2\,r^4+r^6-24\,l^4\,r\,R+8\,l^2\,r^3\,R-8\,l^4\,R^2+80\,l^2\,r^2\,R^2-24\,r^4\,R^2+160\,l^2\,r\,R^3-128\,r^3\,R^3+16\,l^2\,R^4-304\,r^2\,R^4-256\,r\,R^5\right)\Big)\Big/\left(\left(3\,l^2-r^2-8\,r\,R-12\,R^2\right)^2\left(l^2+r^2-4\,R^2\right)^2\right)\Big\}$$

$$\Big\{X29,\ \text{CEVAPOINT OF INCENTER AND ORTHOCENTER},$$

$$X93,\ \text{ISOGONAL CONJUGATE OF } X(49),\ \Big(4\,(l-r-2\,R)^2\,(l+r+2\,R)^2\left(l^{10}+5\,l^8\,r^2+10\,l^6\,r^4+10\,l^4\,r^6+5\,l^2\,r^8+r^{10}-16\,l^8\,r\,R-32\,l^6\,r^3\,R+32\,l^2\,r^7\,R+16\,r^9\,R-7\,l^8\,R^2-72\,l^6\,r^2\,R^2+114\,l^4\,r^4\,R^2+32\,l^2\,r^6\,R^2+109\,r^8\,R^2+88\,l^6\,r\,R^3+648\,l^4\,r^3\,R^3-312\,l^2\,r^5\,R^3+408\,r^7\,R^3+9\,l^6\,R^4+679\,l^4\,r^2\,R^4-1485\,l^2\,r^4\,R^4+917\,r^6\,R^4-48\,l^4\,r\,R^5-2736\,l^2\,r^3\,R^5+1344\,r^5\,R^5+17\,l^4\,R^6-1970\,l^2\,r^2\,R^6+1533\,r^4\,R^6-248\,l^2\,r\,R^7+1512\,r^3\,R^7-20\,l^2\,R^8+920\,r^2\,R^8+152\,r\,R^9+9\,R^{10}\right)\Big)\Big/\left(\left(3\,l^2-r^2-8\,r\,R-12\,R^2\right)^2\left(l^4+2\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-8\,l^2\,R^2+24\,r^2\,R^2+32\,r\,R^3+13\,R^4\right)^2\right)\Big\}$$

$$\Big\{X29,\ \text{CEVAPOINT OF INCENTER AND ORTHOCENTER},\ X94,\ \text{ISOGONAL CONJUGATE OF } X(50),$$

$$\Big(4\left(l^{14}+3\,l^{12}\,r^2+l^{10}\,r^4-5\,l^8\,r^6-5\,l^6\,r^8+l^4\,r^{10}+3\,l^2\,r^{12}+r^{14}-24\,l^{12}\,r\,R-32\,l^{10}\,r^3\,R+8\,l^8\,r^5\,R-8\,l^4\,r^9\,R+32\,l^2\,r^{11}\,R+24\,r^{13}\,R-14\,l^{12}\,R^2+66\,l^{10}\,r^2\,R^2+432\,l^8\,r^4\,R^2-380\,l^6\,r^6\,R^2+82\,l^4\,r^8\,R^2+58\,l^2\,r^{10}\,R^2+268\,r^{12}\,R^2+284\,l^{10}\,r\,R^3+892\,l^8\,r^3\,R^3-3464\,l^6\,r^5\,R^3+2328\,l^4\,r^7\,R^3-980\,l^2\,r^9\,R^3+1836\,r^{11}\,R^3+73\,l^{10}\,R^4-267\,l^8\,r^2\,R^4-10\,066\,l^6\,r^4\,R^4+14\,774\,l^4\,r^6\,R^4-8887\,l^2\,r^8\,R^4+8597\,r^{10}\,R^4-1208\,l^8\,r\,R^5-11\,264\,l^6\,r^3\,R^5+44\,048\,l^4\,r^5\,R^5-38\,400\,l^2\,r^7\,R^5+29\,096\,r^9\,R^5-168\,l^8\,R^6-2618\,l^6\,r^2\,R^6+68\,974\,l^4\,r^4\,R^6-101\,318\,l^2\,r^6\,R^6+73\,402\,r^8\,R^6+2148\,l^6\,r\,R^7+53\,948\,l^4\,r^3\,R^7-169\,716\,l^2\,r^5\,R^7+139\,700\,r^7\,R^7+144\,l^6\,R^8+15\,336\,l^4\,r^2\,R^8-175\,432\,l^2\,r^4\,R^8+199\,024\,r^6\,R^8-1296\,l^4\,r\,R^9-101\,568\,l^2\,r^3\,R^9+205\,616\,r^5\,R^9-25\,056\,l^2\,r^2\,R^{10}+144\,516\,r^4\,R^{10}+61\,200\,r^3\,R^{11}+11\,664\,r^2\,R^{12}\right)\Big)\Big/\left(\left(3\,l^2-r^2-8\,r\,R-12\,R^2\right)^2\left(l^4+2\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-12\,l^2\,R^2+28\,r^2\,R^2+48\,r\,R^3+27\,R^4\right)^2\right)\Big\}$$

$$\{X29, \text{CEVAPOINT OF INCENTER AND ORTHOCENTER}, X95, \text{CEVAPOINT OF CENTROID AND CIRCUMCENTER},$$
$$\big(4\,(l^{14}+11\,l^{12}r^2-135\,l^{10}r^4-181\,l^8r^6+107\,l^6r^8+169\,l^4r^{10}+27\,l^2r^{12}+r^{14}-24\,l^{12}r\,R-$$
$$192\,l^{10}r^3R+648\,l^8r^5R+1088\,l^6r^7R+632\,l^4r^9R+384\,l^2r^{11}R+24\,r^{13}R-16\,l^{12}R^2-$$
$$36\,l^{10}r^2R^2+3196\,l^8r^4R^2+104\,l^6r^6R^2-232\,l^4r^8R^2+2108\,l^2r^{10}R^2+252\,r^{12}R^2+$$
$$336\,l^{10}r\,R^3+2592\,l^8r^3R^3-12\,640\,l^6r^5R^3+768\,l^4r^7R^3+4880\,l^2r^9R^3+1504\,r^{11}R^3+$$
$$96\,l^{10}R^4-176\,l^8r^2R^4-25\,760\,l^6r^4R^4+24\,896\,l^4r^6R^4-960\,l^2r^8R^4+5488\,r^{10}R^4-$$
$$1728\,l^8r\,R^5-15\,360\,l^6r^3R^5+73\,344\,l^4r^5R^5-33\,280\,l^2r^7R^5+11\,840\,r^9R^5-256\,l^8R^6-$$
$$640\,l^6r^2R^6+86\,336\,l^4r^4R^6-85\,504\,l^2r^6R^6+10\,816\,r^8R^6+3840\,l^6r\,R^7+45\,056\,l^4r^3R^7-$$
$$111\,360\,l^2r^5R^7-14\,336\,r^7R^7+256\,l^6R^8+8704\,l^4r^2R^8-87\,808\,l^2r^4R^8-59\,392\,r^6R^8-$$
$$3072\,l^4r\,R^9-47\,104\,l^2r^3R^9-82\,944\,r^5R^9-15\,360\,l^2r^2R^{10}-57\,344\,r^4R^{10}-16\,384\,r^3R^{11}\big)\big)\,/$$
$$\big((3\,l^2-r^2-8\,r\,R-12\,R^2)^2\,(l^4+18\,l^2r^2+r^4-8\,l^2r\,R+8\,r^3R-4\,l^2R^2+20\,r^2R^2+16\,r\,R^3)^2\big)\}$$

$$\{X29, \text{CEVAPOINT OF INCENTER AND ORTHOCENTER}, X96, \text{ISOGONAL CONJUGATE OF } X(52),$$
$$-\big((4\,(2\,l^{14}-32\,l^{12}r^2+50\,l^{10}r^4+112\,l^8r^6-58\,l^6r^8-80\,l^4r^{10}+6\,l^2r^{12}-44\,l^{12}r\,R+456\,l^{10}r^3R-$$
$$164\,l^8r^5R-848\,l^6r^7R-180\,l^4r^9R+8\,l^2r^{11}R+4\,r^{13}R-43\,l^{12}R^2+994\,l^{10}r^2R^2-$$
$$3425\,l^8r^4R^2-900\,l^6r^6R^2+1747\,l^4r^8R^2-702\,l^2r^{10}R^2+89\,r^{12}R^2+864\,l^{10}r\,R^3-$$
$$9552\,l^8r^3R^3+12\,480\,l^6r^5R^3+4384\,l^4r^7R^3-5408\,l^2r^9R^3+816\,r^{11}R^3+376\,l^{10}R^4-$$
$$11\,344\,l^8r^2R^4+48\,304\,l^6r^4R^4-23\,552\,l^4r^6R^4-12\,712\,l^2r^8R^4+3792\,r^{10}R^4-6608\,l^8r\,R^5+$$
$$75\,776\,l^6r^3R^5-128\,992\,l^4r^5R^5+18\,432\,l^2r^7R^5+7600\,r^9R^5-1744\,l^8R^6+60\,832\,l^6r^2R^6-$$
$$261\,168\,l^4r^4R^6+173\,504\,l^2r^6R^6-9632\,r^8R^6+25\,504\,l^6r\,R^7-278\,176\,l^4r^3R^7+$$
$$439\,392\,l^2r^5R^7-101\,216\,r^7R^7+4672\,l^6R^8-165\,568\,l^4r^2R^8+595\,264\,l^2r^4R^8-291\,264\,r^6R^8-$$
$$52\,992\,l^4r\,R^9+474\,112\,l^2r^3R^9-473\,344\,r^5R^9-7312\,l^4R^{10}+221\,984\,l^2r^2R^{10}-478\,608\,r^4R^{10}+$$
$$56\,960\,l^2r\,R^{11}-303\,744\,r^3R^{11}+6272\,l^2R^{12}-117\,120\,r^2R^{12}-25\,088\,r\,R^{13}-2304\,R^{14}\big)\big)\,/$$
$$\big((3\,l^2-r^2-8\,r\,R-12\,R^2)^2\,(l^4-14\,l^2r^2+r^4-8\,l^2r\,R+8\,r^3R+16\,r^2R^2-4\,R^4)^2\big)\big)\}$$

$$\{X29, \text{CEVAPOINT OF INCENTER AND ORTHOCENTER}, X97, \text{ISOGONAL CONJUGATE OF } X(53),$$
$$(l^{14}+9\,l^{12}r^2-79\,l^{10}r^4-63\,l^8r^6+107\,l^6r^8+51\,l^4r^{10}-29\,l^2r^{12}+3\,r^{14}-28\,l^{12}r\,R-40\,l^{10}r^3R+$$
$$188\,l^8r^5R+848\,l^6r^7R+156\,l^4r^9R-424\,l^2r^{11}R+68\,r^{13}R-16\,l^{12}R^2+72\,l^{10}r^2R^2+676\,l^8r^4R^2+$$
$$1936\,l^6r^6R^2-936\,l^4r^8R^2-2616\,l^2r^{10}R^2+692\,r^{12}R^2+392\,l^{10}r\,R^3-88\,l^8r^3R^3+720\,l^6r^5R^3-$$
$$5616\,l^4r^7R^3-8792\,l^2r^9R^3+4168\,r^{11}R^3+96\,l^{10}R^4-1168\,l^8r^2R^4-1824\,l^6r^4R^4-9952\,l^4r^6R^4-$$
$$17\,472\,l^2r^8R^4+16\,496\,r^{10}R^4-2016\,l^8r\,R^5-1088\,l^6r^3R^5-1984\,l^4r^5R^5-22\,336\,l^2r^7R^5+45\,088\,r^9R^5-$$
$$256\,l^8R^6+2368\,l^6r^2R^6+16\,592\,l^4r^4R^6-26\,976\,l^2r^6R^6+87\,376\,r^8R^6+4480\,l^6r\,R^7+22\,720\,l^4r^3R^7-$$
$$48\,256\,l^2r^5R^7+122\,432\,r^7R^7+256\,l^6R^8+7744\,l^4r^2R^8-75\,776\,l^2r^4R^8+127\,936\,r^6R^8-3584\,l^4r\,R^9-$$
$$66\,560\,l^2r^3R^9+105\,472\,r^5R^9-24\,064\,l^2r^2R^{10}+71\,424\,r^4R^{10}+35\,840\,r^3R^{11}+9216\,r^2R^{12})\,/$$
$$\big((3\,l^2-r^2-8\,r\,R-12\,R^2)^2\,(l^4-6\,l^2r^2+r^4-8\,l^2r\,R+8\,r^3R-7\,l^2R^2+23\,r^2R^2+28\,r\,R^3+12\,R^4)^2\big)\}$$

$$\{X29, \text{CEVAPOINT OF INCENTER AND ORTHOCENTER}, X98, \text{TarryPoint},$$
$$-\big((4\,(2\,l^{10}-4\,l^8r^2-8\,l^6r^4+4\,l^4r^6+6\,l^2r^8-28\,l^8r\,R+16\,l^6r^3R+56\,l^4r^5R+16\,l^2r^7R+4\,r^9R-$$
$$25\,l^8R^2+196\,l^6r^2R^2+26\,l^4r^4R^2-76\,l^2r^6R^2+55\,r^8R^2+304\,l^6r\,R^3-656\,l^4r^3R^3-112\,l^2r^5R^3+$$
$$272\,r^7R^3+104\,l^6R^4-1528\,l^4r^2R^4+1144\,l^2r^4R^4+472\,r^6R^4-1056\,l^4r\,R^5+3648\,l^2r^3R^5-$$
$$544\,r^5R^5-144\,l^4R^6+3744\,l^2r^2R^6-3344\,r^4R^6+1152\,l^2r\,R^7-4736\,r^3R^7-2304\,r^2R^8)\big)\,/$$
$$\big((3\,l^2-r^2-8\,r\,R-12\,R^2)^2\,(l^4-14\,l^2r^2+r^4-8\,l^2r\,R+8\,r^3R+16\,r^2R^2)\big)\big)\}$$

$$\{X29, \text{CEVAPOINT OF INCENTER AND ORTHOCENTER}, X99, \text{STEINER POINT},$$
$$\big(4\,(l^2+r^2+2\,r\,R)^2\,(l^6+7\,l^4r^2-9\,l^2r^4+r^6-20\,l^4r\,R-24\,l^2r^3R+12\,r^5R-$$
$$8\,l^4R^2+8\,l^2r^2R^2+48\,r^4R^2+144\,l^2r\,R^3+48\,r^3R^3+16\,l^2R^4-128\,r^2R^4-256\,r\,R^5)\big)\,/$$
$$\big((3\,l^2-r^2-8\,r\,R-12\,R^2)^2\,(l^4-14\,l^2r^2+r^4-8\,l^2r\,R+8\,r^3R+16\,r^2R^2)\big)\big)\}$$

$$\{X29, \text{CEVAPOINT OF INCENTER AND ORTHOCENTER}, X100, \text{ANTICOMPLEMENT OF FEUERBACH POINT},$$
$$\big(4\,(-l^6r-l^4r^3+l^2r^5+r^7-l^6R+8\,l^4r^2R+11\,l^2r^4R+2\,r^6R+28\,l^4r\,R^2-20\,r^5R^2+$$
$$8\,l^4R^3-112\,l^2r^2R^3-60\,r^4R^3-160\,l^2r\,R^4+48\,r^3R^4-16\,l^2R^5+304\,r^2R^5+256\,r\,R^6)\big)\,/$$
$$\big((2\,r-R)\,(-3\,l^2+r^2+8\,r\,R+12\,R^2)^2\big)\}$$

$$\{X30, \text{EulerInfinityPoint}, X31, \text{SecondPowerPoint}, \infty\}$$

$$\{X30, \text{EulerInfinityPoint}, X32, \text{ThirdPowerPoint}, \infty\}$$

$$\{X30, \text{EulerInfinityPoint}, X33, \text{PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES}, \infty\}$$

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{X30, EulerInfinityPoint, X34, X(4)-BETH CONJUGATE OF X(4), ∞}
{X30, EulerInfinityPoint, X35, {X(1),X(3)}-HARMONIC CONJUGATE OF X(36), ∞}
{X30, EulerInfinityPoint, X36, INVERSE-IN-CIRCUMCIRCLE OF INCENTER, ∞}
{X30, EulerInfinityPoint, X37, CrosspointOfIncenterAndCentroid, ∞}
{X30, EulerInfinityPoint, X38, CROSSPOINT OF X(1) AND X(75), ∞}
{X30, EulerInfinityPoint, X39, BrocardMidpoint, ∞}
{X30, EulerInfinityPoint, X40, BEVAN POINT, ∞}
{X30, EulerInfinityPoint, X41, X(6)-CEVA CONJUGATE OF X(31), ∞}
{X30, EulerInfinityPoint, X42, CROSSPOINT OF INCENTER AND SYMMEDIAN POINT, ∞}
{X30, EulerInfinityPoint, X43, X(6)-CEVA CONJUGATE OF X(1), ∞}
{X30, EulerInfinityPoint, X44, X(6)-LINE CONJUGATE OF X(1), ∞}
{X30, EulerInfinityPoint, X45, X(9)-BETH CONJUGATE OF X(1), ∞}
{X30, EulerInfinityPoint, X46, X(4)-CEVA CONJUGATE OF X(1), ∞}
{X30, EulerInfinityPoint, X47, X(110)-BETH CONJUGATE OF X(34), ∞}
{X30, EulerInfinityPoint, X48, CROSSPOINT OF X(1) AND X(63), ∞}
{X30, EulerInfinityPoint, X49, CENTER OF SINE-TRIPLE-ANGLE CIRCLE, ∞}
{X30, EulerInfinityPoint, X50, X(74)-CEVA CONJUGATE OF X(184), ∞}
{X30, EulerInfinityPoint, X51, CENTROID OF ORTHIC TRIANGLE, ∞}
{X30, EulerInfinityPoint, X52, ORTHOCENTER OF ORTHIC TRIANGLE, ∞}
{X30, EulerInfinityPoint, X53, SYMMEDIAN POINT OF ORTHIC TRIANGLE, ∞}
{X30, EulerInfinityPoint, X54, KosnitaPoint, ∞}
{X30, EulerInfinityPoint, X55, INSIMILICENTER(CIRCUMCIRCLE, INCIRCLE), ∞}
{X30, EulerInfinityPoint, X56, EXSIMILICENTER(CIRCUMCIRCLE, INCIRCLE), ∞}
{X30, EulerInfinityPoint, X57, ISOGONAL CONJUGATE OF X(9), ∞}
{X30, EulerInfinityPoint, X58, ISOGONAL CONJUGATE OF X(10), ∞}
{X30, EulerInfinityPoint, X59, ISOGONAL CONJUGATE OF X(11), ∞}
{X30, EulerInfinityPoint, X60, ISOGONAL CONJUGATE OF X(12), ∞}
{X30, EulerInfinityPoint, X61, ISOGONAL CONJUGATE OF X(17), ∞}
{X30, EulerInfinityPoint, X62, ISOGONAL CONJUGATE OF X(18), ∞}
{X30, EulerInfinityPoint, X63, ISOGONAL CONJUGATE OF X(19), ∞}
{X30, EulerInfinityPoint, X64, ISOGONAL CONJUGATE OF X(20), ∞}
{X30, EulerInfinityPoint, X65, ORTHOCENTER OF THE INTOUCH TRIANGLE, ∞}
{X30, EulerInfinityPoint, X66, ISOGONAL CONJUGATE OF X(22), ∞}
{X30, EulerInfinityPoint, X67, ISOGONAL CONJUGATE OF X(23), ∞}
{X30, EulerInfinityPoint, X68, PRASOLOV POINT, ∞}
{X30, EulerInfinityPoint, X69, SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE, ∞}
{X30, EulerInfinityPoint, X70, ISOGONAL CONJUGATE OF X(26), ∞}
{X30, EulerInfinityPoint, X71, ISOGONAL CONJUGATE OF X(27), ∞}
{X30, EulerInfinityPoint, X72, ISOGONAL CONJUGATE OF X(28), ∞}
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{X30, EulerInfinityPoint, X73, CROSSPOINT OF INCENTER AND CIRCUMCENTER, ∞}

{X30, EulerInfinityPoint, X74, ISOGONAL CONJUGATE OF EULER INFINITY POINT, ∞}

{X30, EulerInfinityPoint, X75, ISOTOMIC CONJUGATE OF INCENTER, ∞}

{X30, EulerInfinityPoint, X76, 3rd BROCARD POINT, ∞}

{X30, EulerInfinityPoint, X77, ISOGONAL CONJUGATE OF X(33), ∞}

{X30, EulerInfinityPoint, X78, ISOGONAL CONJUGATE OF X(34), ∞}

{X30, EulerInfinityPoint, X79, ISOGONAL CONJUGATE OF X(35), ∞}

{X30, EulerInfinityPoint, X80, REFLECTION OF INCENTER IN FEUERBACH POINT, ∞}

{X30, EulerInfinityPoint, X81, CEVAPOINT OF INCENTER AND SYMMEDIAN POINT, ∞}

{X30, EulerInfinityPoint, X82, ISOGONAL CONJUGATE OF X(38), ∞}

{X30, EulerInfinityPoint, X83, CEVAPOINT OF CENTROID AND SYMMEDIAN POINT, ∞}

{X30, EulerInfinityPoint, X84, ISOGONAL CONJUGATE OF X(40), ∞}

{X30, EulerInfinityPoint, X85, ISOTOMIC CONJUGATE OF X(9), ∞}

{X30, EulerInfinityPoint, X86, CEVAPOINT OF INCENTER AND CENTROID, ∞}

{X30, EulerInfinityPoint, X87, X(2)-CROSS CONJUGATE OF X(1), ∞}

{X30, EulerInfinityPoint, X88, ISOGONAL CONJUGATE OF X(44), ∞}

{X30, EulerInfinityPoint, X89, ISOGONAL CONJUGATE OF X(45), ∞}

{X30, EulerInfinityPoint, X90, X(3)-CROSS CONJUGATE OF X(1), ∞}

{X30, EulerInfinityPoint, X91, ISOGONAL CONJUGATE OF X(47), ∞}

{X30, EulerInfinityPoint, X92, CEVAPOINT OF INCENTER AND CLAWSON POINT, ∞}

{X30, EulerInfinityPoint, X93, ISOGONAL CONJUGATE OF X(49), ∞}

{X30, EulerInfinityPoint, X94, ISOGONAL CONJUGATE OF X(50), ∞}

{X30, EulerInfinityPoint, X95, CEVAPOINT OF CENTROID AND CIRCUMCENTER, ∞}

{X30, EulerInfinityPoint, X96, ISOGONAL CONJUGATE OF X(52), ∞}

{X30, EulerInfinityPoint, X97, ISOGONAL CONJUGATE OF X(53), ∞}

{X30, EulerInfinityPoint, X98, TarryPoint, ∞}

{X30, EulerInfinityPoint, X99, STEINER POINT, ∞}

{X30, EulerInfinityPoint, X100, ANTICOMPLEMENT OF FEUERBACH POINT, ∞}

$$\{X31, \text{SecondPowerPoint}, X32, \text{ThirdPowerPoint}, -\left(\left(4 r^4 R^2 \left(l^8+4 l^6 r^2+6 l^4 r^4+4 l^2 r^6+r^8-28 l^6 r R+92 l^4 r^3 R+12 l^2 r^5 R+20 r^7 R-4 l^6 R^2+152 l^4 r^2 R^2-132 l^2 r^4 R^2+160 r^6 R^2+96 l^4 r R^3-608 l^2 r^3 R^3+640 r^5 R^3-576 l^2 r^2 R^4+1280 r^4 R^4+1024 r^3 R^5\right)\right) / \left(\left(l^2-3 r^2-6 r R\right)^2 \left(l^2-2 l r-r^2-4 r R\right)^2 \left(l^2+2 l r-r^2-4 r R\right)^2\right)\right)\}$$

$$\{X31, \text{SecondPowerPoint}, X33, \text{PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES}, \left(16 r^2 R \left(l^6 r-4 l^4 r^3+3 l^2 r^5-10 l^4 r^2 R+17 l^2 r^4 R-r^6 R-10 l^4 r R^2+52 l^2 r^3 R^2-14 r^5 R^2-l^4 R^3+78 l^2 r^2 R^3-73 r^4 R^3+44 l^2 r R^4-172 r^3 R^4+4 l^2 R^5-176 r^2 R^5-64 r R^6\right)\right) / \left(\left(l^2-3 r^2-6 r R\right)^2 \left(l^2-r^2-2 r R-4 R^2\right)^2\right)\}$$

$$\{X31, \text{SecondPowerPoint}, X34, X(4)\text{-BETH CONJUGATE OF } X(4), -\left(\left(16 r^2 R \left(l^4 r^3-4 l^2 r^5+3 r^7+2 l^4 r^2 R-17 l^2 r^4 R+25 r^6 R+2 l^4 r R^2-32 l^2 r^3 R^2+82 r^5 R^2+l^4 R^3-42 l^2 r^2 R^3+149 r^4 R^3-28 l^2 r R^4+188 r^3 R^4-4 l^2 R^5+160 r^2 R^5+64 r R^6\right)\right) / \left(\left(l^2-3 r^2-6 r R\right)^2 \left(l^2-r^2-6 r R-4 R^2\right)^2\right)\right)\}$$

$$\left\{X31,\ SecondPowerPoint,\ X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),\ \frac{4 r^2 R^2 \left(2 l^4-12 l^2 r^2+2 r^4-22 l^2 r R+10 r^3 R+l^2 R^2+13 r^2 R^2-16 r R^3\right)}{(2 r+R)^2 \left(-l^2+3 r^2+6 r R\right)^2}\right\}$$

$$\left\{X31,\ SecondPowerPoint,\ X36,\ \text{INVERSE-IN-CIRCUMCIRCLE OF INCENTER},\ \frac{4 r^2 R^2 \left(-4 l^2 r+4 r^3-l^2 R+11 r^2 R+16 r R^2\right)}{(2 r-R) \left(-l^2+3 r^2+6 r R\right)^2}\right\}$$

$$\left\{X31,\ SecondPowerPoint,\ X37,\ CrosspointOfIncenterAndCentroid,\ \left(4 r^2 R \left(6 l^6 r-20 l^4 r^3+6 l^2 r^5+4 l^6 R-65 l^4 r^2 R+42 l^2 r^4 R-r^6 R-72 l^4 r R^2+132 l^2 r^3 R^2-12 r^5 R^2+132 l^2 r^2 R^3-48 r^4 R^3-64 r^3 R^4\right)\right) \Big/ \left(\left(l^2-3 r^2-6 r R\right)^2 \left(l^2+r^2+4 r R\right)^2\right)\right\}$$

$$\left\{X31,\ SecondPowerPoint,\ X38,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(75),\ \frac{16 r^2 R \left(l^2-r^2-4 r R\right)^2 \left(2 l^2 r-6 r^3+l^2 R-19 r^2 R-16 r R^2\right)}{\left(l^2-3 r^2-6 r R\right)^2 \left(l^2+r^2-2 r R\right)^2}\right\}$$

$$\left\{X31,\ SecondPowerPoint,\ X39,\ BrocardMidpoint,\ \left(4 r^4 R^2 \left(15 l^8-116 l^6 r^2+106 l^4 r^4-20 l^2 r^6-r^8-228 l^6 r R+612 l^4 r^3 R-204 l^2 r^5 R-20 r^7 R+4 l^6 R^2+872 l^4 r^2 R^2-636 l^2 r^4 R^2-160 r^6 R^2-96 l^4 r R^3-416 l^2 r^3 R^3-640 r^5 R^3+576 l^2 r^2 R^4-1280 r^4 R^4-1024 r^3 R^5\right)\right) \Big/ \left(\left(l^2-3 r^2-6 r R\right)^2 \left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)^2\right)\right\}$$

$$\left\{X31,\ SecondPowerPoint,\ X40,\ \text{BEVAN POINT},\ -\frac{4 R \left(l^4 r-4 l^2 r^3+3 r^5-l^4 R-3 l^2 r^2 R+10 r^4 R+12 l^2 r R^2-8 r^3 R^2-36 r^2 R^3\right)}{\left(l^2-3 r^2-6 r R\right)^2}\right\}$$

$$\left\{X31,\ SecondPowerPoint,\ X41,\ X(6)\text{-CEVA CONJUGATE OF } X(31),\ -\left(\left(4 r^2 R^2 \left(l^8+4 l^6 r^2+6 l^4 r^4+4 l^2 r^6+r^8-28 l^6 r R+92 l^4 r^3 R+12 l^2 r^5 R+20 r^7 R-4 l^6 R^2+152 l^4 r^2 R^2-132 l^2 r^4 R^2+160 r^6 R^2+96 l^4 r R^3-608 l^2 r^3 R^3+640 r^5 R^3-576 l^2 r^2 R^4+1280 r^4 R^4+1024 r^3 R^5\right)\right) \Big/ \left(\left(l^2-3 r^2-6 r R\right)^2 \left(3 l^2 r-r^3+2 l^2 R-8 r^2 R-16 r R^2\right)^2\right)\right)\right\}$$

$$\left\{X31,\ SecondPowerPoint,\ X42,\ \text{CROSSPOINT OF INCENTER AND SYMMEDIAN POINT},\ \frac{16 r^4 R^2 \left(3 l^4-14 l^2 r^2-r^4-28 l^2 r R-12 r^3 R+4 l^2 R^2-48 r^2 R^2-64 r R^3\right)}{\left(l^2-3 r^2-6 r R\right)^2 \left(l^2+r^2-2 r R\right)^2}\right\}$$

$$\left\{X31,\ SecondPowerPoint,\ X43,\ X(6)\text{-CEVA CONJUGATE OF } X(1),\ -\left(\left(4 r^2 (2 r-R) R \left(l^6-l^4 r^2-5 l^2 r^4-3 r^6-24 l^4 r R+64 l^2 r^3 R-40 r^5 R+144 l^2 r^2 R^2-176 r^4 R^2-256 r^3 R^3\right)\right) \Big/ \left(\left(l^2+r^2-8 r R\right)^2 \left(l^2-3 r^2-6 r R\right)^2\right)\right)\right\}$$

$$\left\{X31,\ SecondPowerPoint,\ X44,\ X(6)\text{-LINE CONJUGATE OF } X(1),\ \left(4 r^2 R \left(2 l^6 r-12 l^4 r^3+18 l^2 r^5+4 l^6 R-25 l^4 r^2 R+42 l^2 r^4 R-9 r^6 R-88 l^4 r R^2+228 l^2 r^3 R^2-108 r^5 R^2+420 l^2 r^2 R^3-432 r^4 R^3-576 r^3 R^4\right)\right) \Big/ \left(\left(l^2-3 r^2-12 r R\right)^2 \left(l^2-3 r^2-6 r R\right)^2\right)\right\}$$

$$\left\{X31,\ SecondPowerPoint,\ X45,\ X(9)\text{-BETH CONJUGATE OF } X(1),\ \left(4 r^2 R \left(20 l^6 r-72 l^4 r^3+36 l^2 r^5+16 l^6 R-229 l^4 r^2 R+210 l^2 r^4 R-9 r^6 R-304 l^4 r R^2+708 l^2 r^3 R^2-108 r^5 R^2+804 l^2 r^2 R^3-432 r^4 R^3-576 r^3 R^4\right)\right) \Big/ \left(\left(l^2-3 r^2-6 r R\right)^2 \left(l^2+3 r^2+12 r R\right)^2\right)\right\}$$

$$\left\{X31,\ SecondPowerPoint,\ X46,\ X(4)\text{-CEVA CONJUGATE OF } X(1),\ -\frac{4 r^2 R \left(l^4 r-4 l^2 r^3+3 r^5-9 l^2 r^2 R+19 r^4 R-4 l^2 r R^2+32 r^3 R^2-l^2 R^3+11 r^2 R^3+16 r R^4\right)}{(r-R)^2 \left(-l^2+3 r^2+6 r R\right)^2}\right\}$$

$$\left\{X31,\ SecondPowerPoint,\ X47,\ X(110)\text{-BETH CONJUGATE OF } X(34),\ \frac{16 r^2 R^5 \left(2 l^2 r-6 r^3+l^2 R-19 r^2 R-16 r R^2\right)}{\left(l^2-3 r^2-6 r R\right)^2 \left(l^2-3 r^2-6 r R-2 R^2\right)^2}\right\}$$

$$\{X31, SecondPowerPoint, X48, CROSSPOINT\ OF\ X(1)\ AND\ X(63),$$
$$-\left(\left(4R^2\left(l^8+4l^6r^2+6l^4r^4+4l^2r^6+r^8-24l^6rR+64l^4r^3R-24l^2r^5R+16r^7R-4l^6R^2+108l^4r^2R^2-236l^2r^4R^2+100r^6R^2+80l^4rR^3-480l^2r^3R^3+304r^5R^3-272l^2r^2R^4+448r^4R^4+256r^3R^5\right)\right)\Big/\left(\left(l^2-3r^2-6rR\right)^2\left(3l^2-r^2-6rR-8R^2\right)^2\right)\right)\}$$

$$\{X31, SecondPowerPoint, X49, CENTER\ OF\ SINE\text{-}TRIPLE\text{-}ANGLE\ CIRCLE,$$
$$-\left(\left(R^2\left(l^8+4l^6r^2+6l^4r^4+4l^2r^6+r^8-20l^6rR+36l^4r^3R-60l^2r^5R+12r^7R-4l^6R^2+28l^4r^2R^2-236l^2r^4R^2+52r^6R^2+64l^4rR^3-128l^2r^3R^3+96r^5R^3-l^4R^4+90l^2r^2R^4+59r^4R^4+12l^2rR^5-20r^3R^5-36r^2R^6\right)\right)\Big/\left(\left(l^2-3r^2-6rR\right)^2\left(2l^2-2r^2-8rR-7R^2\right)^2\right)\right)\}$$

$$\{X31, SecondPowerPoint, X50, X(74)\text{-}CEVA\ CONJUGATE\ OF\ X(184),$$
$$-\left(\left(4r^4R^2\left(l^8+4l^6r^2+6l^4r^4+4l^2r^6+r^8-28l^6rR+92l^4r^3R+12l^2r^5R+20r^7R-10l^6R^2+194l^4r^2R^2-78l^2r^4R^2+166r^6R^2+144l^4rR^3-368l^2r^3R^3+736r^5R^3-3l^4R^4-474l^2r^2R^4+1865r^4R^4-228l^2rR^5+2668r^3R^5-36l^2R^6+1968r^2R^6+576rR^7\right)\right)\Big/\left(\left(l^2-3r^2-6rR\right)^2\left(l^4-6l^2r^2+r^4-8l^2rR+8r^3R-3l^2R^2+19r^2R^2+12rR^3\right)^2\right)\right)\}$$

$$\{X31, SecondPowerPoint, X51, CENTROID\ OF\ ORTHIC\ TRIANGLE,$$
$$-\frac{1}{36R^2\left(-l^2+3r^2+6rR\right)^2}\left(l^8+12l^6r^2-98l^4r^4+156l^2r^6+9r^8-20l^6rR-124l^4r^3R+516l^2r^5R+108r^7R-4l^6R^2+8l^4r^2R^2+636l^2r^4R^2+432r^6R^2+64l^4rR^3+384l^2r^3R^3+576r^5R^3\right)\}$$

$$\{X31, SecondPowerPoint, X52, ORTHOCENTER\ OF\ ORTHIC\ TRIANGLE,$$
$$\frac{1}{4R^2\left(-l^2+3r^2+6rR\right)^2}\left(l^8-20l^6r^2+94l^4r^4-132l^2r^6+9r^8-20l^6rR+260l^4r^3R-636l^2r^5R+108r^7R-4l^6R^2+208l^4r^2R^2-1140l^2r^4R^2+504r^6R^2+64l^4rR^3-960l^2r^3R^3+1152r^5R^3+4l^4R^4-376l^2r^2R^4+1316r^4R^4-48l^2rR^5+656r^3R^5+144r^2R^6\right)\}$$

$$\{X31, SecondPowerPoint, X53, SYMMEDIAN\ POINT\ OF\ ORTHIC\ TRIANGLE,$$
$$-\left(\left(4r^4\left(6l^{10}-56l^8r^2+132l^6r^4-56l^4r^6+6l^2r^8-96l^8rR+544l^6r^3R-544l^4r^5R+96l^2r^7R-35l^8R^2+780l^6r^2R^2-1886l^4r^4R^2+628l^2r^6R^2+r^8R^2+436l^6rR^3-2900l^4r^3R^3+2124l^2r^5R^3+20r^7R^3+52l^6R^4-1984l^4r^2R^4+3876l^2r^4R^4+168r^6R^4-480l^4rR^5+3552l^2r^3R^5+768r^5R^5-16l^4R^6+1152l^2r^2R^6+2064r^4R^6-192l^2rR^7+3264r^3R^7-64l^2R^8+2816r^2R^8+1024rR^9\right)\right)\Big/\left(\left(l^2-3r^2-6rR\right)^2\left(l^4-6l^2r^2+r^4-8l^2rR+8r^3R-4l^2R^2+20r^2R^2+16rR^3\right)^2\right)\right)\}$$

$$\{X31, SecondPowerPoint, X54, KosnitaPoint,$$
$$-\left(\left(R^2\left(4l^6r^2+12l^4r^4+12l^2r^6+4r^8+16l^4r^3R-64l^2r^5R+48r^7R+l^6R^2-69l^4r^2R^2-205l^2r^4R^2+185r^6R^2-16l^4rR^3+152l^2r^3R^3+200r^5R^3-4l^4R^4+288l^2r^2R^4-204r^4R^4+48l^2rR^5-368r^3R^5-144r^2R^6\right)\right)\Big/\left(\left(l^2-3r^2-6rR\right)^2\left(2l^2-2r^2-8rR-5R^2\right)^2\right)\right)\}$$

$$\{X31, SecondPowerPoint, X55, INSIMILICENTER(CIRCUMCIRCLE, INCIRCLE),$$
$$-\frac{r^2R^2\left(-3l^4+14l^2r^2+r^4+28l^2rR+12r^3R-4l^2R^2+48r^2R^2+64rR^3\right)}{(r+R)^2\left(-l^2+3r^2+6rR\right)^2}\}$$

$$\{X31, SecondPowerPoint, X56, EXSIMILICENTER(CIRCUMCIRCLE, INCIRCLE),$$
$$\frac{r^2R^2\left(-l^4-6l^2r^2+11r^4+20l^2rR+4r^3R+4l^2R^2-32r^2R^2-64rR^3\right)}{(r-R)^2\left(-l^2+3r^2+6rR\right)^2}\}$$

$$\{X31, SecondPowerPoint, X57, ISOGONAL\ CONJUGATE\ OF\ X(9),$$
$$-\frac{4r^2R\left(-l^2+3r^2+4rR+4R^2\right)\left(-l^2r+r^3-l^2R+8r^2R+16rR^2\right)}{(r-2R)^2\left(-l^2+3r^2+6rR\right)^2}\}$$

$$\left\{X31,\ \text{SecondPowerPoint},\ X58,\ \text{ISOGONAL CONJUGATE OF } X(10),\ \frac{16 r^4 R^3 \left(2 l^2 r - 6 r^3 + l^2 R - 19 r^2 R - 16 r R^2\right)}{\left(l^2 - 3 r^2 - 6 r R\right)^2 \left(l^2 - 3 r^2 - 4 r R\right)^2}\right\}$$

$$\left\{X31,\ \text{SecondPowerPoint},\ X59,\ \text{ISOGONAL CONJUGATE OF } X(11),\ -\left(\left(r^2 R^2 \left(2 l^6 r + 6 l^4 r^3 + 6 l^2 r^5 + 2 r^7 + 5 l^6 R - 17 l^4 r^2 R - 65 l^2 r^4 R + 21 r^6 R - 136 l^4 r R^2 + 40 l^2 r^3 R^2 + 48 r^5 R^2 - 32 l^4 R^3 + 768 l^2 r^2 R^3 - 176 r^4 R^3 + 640 l^2 r R^4 - 960 r^3 R^4 + 64 l^2 R^5 - 1536 r^2 R^5 - 1024 r R^6\right)\right) \Big/ \left((2 r - R) \left(-l^2 + 3 r^2 + 6 r R\right)^2 \left(-l^2 + r^2 + 5 r R + 4 R^2\right)^2\right)\right)\right\}$$

$$\left\{X31,\ \text{SecondPowerPoint},\ X60,\ \text{ISOGONAL CONJUGATE OF } X(12),\ -\left(\left(r^2 R^2 \left(4 l^6 r^2 + 12 l^4 r^4 + 12 l^2 r^6 + 4 r^8 - 8 l^6 r R + 72 l^4 r^3 R + 8 l^2 r^5 R + 56 r^7 R - l^6 R^2 + 61 l^4 r^2 R^2 - 131 l^2 r^4 R^2 + 255 r^6 R^2 + 24 l^4 r R^3 - 296 l^2 r^3 R^3 + 544 r^5 R^3 - 144 l^2 r^2 R^4 + 576 r^4 R^4 + 256 r^3 R^5\right)\right) \Big/ \left(\left(l^2 - 3 r^2 - 6 r R\right)^2 \left(2 l^2 r - 2 r^3 + l^2 R - 7 r^2 R - 7 r R^2\right)^2\right)\right)\right\}$$

$$\left\{X31,\ \text{SecondPowerPoint},\ X61,\ \text{ISOGONAL CONJUGATE OF } X(17),\ -\left(\left(12 r^2 R^2 \left(-l^6 - 4 \sqrt{3}\, l^5 r + l^4 r^2 + 24 \sqrt{3}\, l^3 r^3 + 37 l^2 r^4 - 4 \sqrt{3}\, l r^5 + 3 r^6 + 12 l^4 r R + 48 \sqrt{3}\, l^3 r^2 R + 64 l^2 r^3 R - 32 \sqrt{3}\, l r^4 R + 36 r^5 R - 48 l^2 r^2 R^2 - 64 \sqrt{3}\, l r^3 R^2 + 144 r^4 R^2 + 192 r^3 R^3\right)\right) \Big/ \left(\left(3 l^2 + 2 \sqrt{3}\, l r - 3 r^2 - 12 r R\right)^2 \left(l^2 - 3 r^2 - 6 r R\right)^2\right)\right)\right\}$$

$$\left\{X31,\ \text{SecondPowerPoint},\ X62,\ \text{ISOGONAL CONJUGATE OF } X(18),\ -\left(\left(12 r^2 R^2 \left(-l^6 + 4 \sqrt{3}\, l^5 r + l^4 r^2 - 24 \sqrt{3}\, l^3 r^3 + 37 l^2 r^4 + 4 \sqrt{3}\, l r^5 + 3 r^6 + 12 l^4 r R - 48 \sqrt{3}\, l^3 r^2 R + 64 l^2 r^3 R + 32 \sqrt{3}\, l r^4 R + 36 r^5 R - 48 l^2 r^2 R^2 + 64 \sqrt{3}\, l r^3 R^2 + 144 r^4 R^2 + 192 r^3 R^3\right)\right) \Big/ \left(\left(3 l^2 - 2 \sqrt{3}\, l r - 3 r^2 - 12 r R\right)^2 \left(l^2 - 3 r^2 - 6 r R\right)^2\right)\right)\right\}$$

$$\left\{X31,\ \text{SecondPowerPoint},\ X63,\ \text{ISOGONAL CONJUGATE OF } X(19),\ -\frac{R \left(-l^2 + r^2 + 4 r R\right)^2 \left(-2 l^2 r + 6 r^3 - l^2 R + 19 r^2 R + 16 r R^2\right)}{(r + R)^2 \left(-l^2 + 3 r^2 + 6 r R\right)^2}\right\}$$

$$\left\{X31,\ \text{SecondPowerPoint},\ X64,\ \text{ISOGONAL CONJUGATE OF } X(20),\ \frac{1}{(l - r - 2 R)^2 (l + r + 2 R)^2 \left(l^2 - 3 r^2 - 6 r R\right)^2} 4 R^2 \left(3 l^8 - 22 l^6 r^2 + 51 l^4 r^4 - 48 l^2 r^6 + 20 r^8 - 60 l^6 r R + 308 l^4 r^3 R - 464 l^2 r^5 R + 240 r^7 R - 28 l^6 R^2 + 624 l^4 r^2 R^2 - 1760 l^2 r^4 R^2 + 1264 r^6 R^2 + 448 l^4 r R^3 - 3200 l^2 r^3 R^3 + 3712 r^5 R^3 + 64 l^4 R^4 - 2688 l^2 r^2 R^4 + 6336 r^4 R^4 - 768 l^2 r R^5 + 5888 r^3 R^5 + 2304 r^2 R^6\right)\right\}$$

$$\left\{X31,\ \text{SecondPowerPoint},\ X65,\ \text{ORTHOCENTER OF THE INTOUCH TRIANGLE},\ -\frac{r^2 \left(2 l^4 r - 12 l^2 r^3 + 18 r^5 + l^4 R - 38 l^2 r^2 R + 105 r^4 R - 28 l^2 r R^2 + 204 r^3 R^2 - 4 l^2 R^3 + 160 r^2 R^3 + 64 r R^4\right)}{R \left(-l^2 + 3 r^2 + 6 r R\right)^2}\right\}$$

$$\left\{X31,\ \text{SecondPowerPoint},\ X66,\ \text{ISOGONAL CONJUGATE OF } X(22),\ \frac{1}{(l - r - 2 R)^2 (l + r + 2 R)^2 \left(l^2 - 3 r^2 - 6 r R\right)^2 \left(l^2 - r^2 - 4 r R\right)^2} \left(10 l^{12} r^2 - 80 l^{10} r^4 + 242 l^8 r^6 - 352 l^6 r^8 + 254 l^4 r^{10} - 80 l^2 r^{12} + 6 r^{14} - 240 l^{10} r^3 R + 1520 l^8 r^5 R - 3456 l^6 r^7 R + 3456 l^4 r^9 R - 1424 l^2 r^{11} R + 144 r^{13} R - l^{12} R^2 - 90 l^{10} r^2 R^2 + 2961 l^8 r^4 R^2 - 12620 l^6 r^6 R^2 + 18977 l^4 r^8 R^2 - 10714 l^2 r^{10} R^2 + 1487 r^{12} R^2 + 28 l^{10} r R^3 + 1740 l^8 r^3 R^3 - 20824 l^6 r^5 R^3 + 53512 l^4 r^7 R^3 - 44100 l^2 r^9 R^3 + 8620 r^{11} R^3 + 4 l^{10} R^4 - 24 l^8 r^2 R^4 - 14520 l^6 r^4 R^4 + 80992 l^4 r^6 R^4 - 107084 l^2 r^8 R^4 + 30648 r^{10} R^4 - 96 l^8 r R^5 - 2464 l^6 r^3 R^5 + 61408 l^4 r^5 R^5 - 153312 l^2 r^7 R^5 + 68352 r^9 R^5 + 544 l^6 r^2 R^6 + 17520 l^4 r^4 R^6 - 120384 l^2 r^6 R^6 + 93168 r^8 R^6 - 384 l^4 r^3 R^7 - 41536 l^2 r^5 R^7 + 70464 r^7 R^7 - 1984 l^2 r^4 R^8 + 21760 r^6 R^8 - 1024 r^5 R^9\right)\right\}$$

$$\left\{X31,\ \text{SecondPowerPoint},\ X67,\ \text{ISOGONAL CONJUGATE OF } X(23),\ \frac{1}{\left(l^2-3r^2-6rR\right)^2\left(l^2-r^2-4rR\right)^2\left(2l^2-2r^2-8rR-9R^2\right)}\right.$$
$$\left(l^{12}+14l^{10}r^2-133l^8r^4+356l^6r^6-377l^4r^8+142l^2r^{10}-3r^{12}-28l^{10}rR-252l^8r^3R+1848l^6r^5R-3272l^4r^7R+1764l^2r^9R-60r^{11}R-4l^{10}R^2+164l^8r^2R^2+2608l^6r^4R^2-10304l^4r^6R^2+8788l^2r^8R^2-484r^{10}R^2+96l^8rR^3+384l^6r^3R^3-13856l^4r^5R^3+22144l^2r^7R^3-1984r^9R^3-528l^6r^2R^4-6572l^4r^4R^4+28872l^2r^6R^4-4188r^8R^4+64l^4r^3R^5+17200l^2r^5R^5-3664r^7R^5+2928l^2r^4R^6+704r^6R^6+2304r^5R^7\right)\Big\}$$

$$\left\{X31,\ \text{SecondPowerPoint},\ X68,\ \text{PRASOLOV POINT},\ \frac{1}{(l-r-2R)^2(l+r+2R)^2\left(l^2-3r^2-6rR\right)^2}\right.$$
$$\left(10l^8r^2-60l^6r^4+112l^4r^6-68l^2r^8+6r^{10}-160l^6r^3R+640l^4r^5R-640l^2r^7R+96r^9R+l^8R^2-100l^6r^2R^2+1334l^4r^4R^2-2468l^2r^6R^2+641r^8R^2-20l^6rR^3+1188l^4r^3R^3-4860l^2r^5R^3+2316r^7R^3-4l^6R^4+416l^4r^2R^4-4996l^2r^4R^4+4888r^6R^4+64l^4rR^5-2496l^2r^3R^5+6016r^5R^5+4l^4R^6-552l^2r^2R^6+4020r^4R^6-48l^2rR^7+1232r^3R^7+144r^2R^8\right)\Big\}$$

$$\left\{X31,\ \text{SecondPowerPoint},\ X69,\ \text{SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},\right.$$
$$\left(l^{10}+5l^8r^2-58l^6r^4+126l^4r^6-71l^2r^8-3r^{10}-24l^8rR-56l^6r^3R+520l^4r^5R-520l^2r^7R-48r^9R+128l^6r^2R^2+560l^4r^4R^2-1472l^2r^6R^2-304r^8R^2+64l^4r^3R^3-1920l^2r^5R^3-960r^7R^3-960l^2r^4R^4-1536r^6R^4-1024r^5R^5\right)\Big/\left(\left(l^2-3r^2-6rR\right)^2\left(l^2-r^2-4rR\right)^2\right)\Big\}$$

$$\left\{X31,\ \text{SecondPowerPoint},\ X70,\ \text{ISOGONAL CONJUGATE OF } X(26),\right.$$
$$\left(10l^{12}r^2-80l^{10}r^4+242l^8r^6-352l^6r^8+254l^4r^{10}-80l^2r^{12}+6r^{14}-240l^{10}r^3R+1520l^8r^5R-3456l^6r^7R+3456l^4r^9R-1424l^2r^{11}R+144r^{13}R-136l^{10}r^2R^2+3248l^8r^4R^2-13296l^6r^6R^2+19680l^4r^8R^2-11016l^2r^{10}R^2+1520r^{12}R^2+2688l^8r^3R^3-25216l^6r^5R^3+60608l^4r^7R^3-48384l^2r^9R^3+9280r^{11}R^3-l^{10}R^4+697l^8r^2R^4-24218l^6r^4R^4+108722l^4r^6R^4-132197l^2r^8R^4+36245r^{10}R^4+24l^8rR^5-10824l^6r^3R^5+113848l^4r^5R^5-231448l^2r^7R^5+94544r^9R^5+6l^8R^6-1840l^6r^2R^6+66148l^4r^4R^6-257968l^2r^6R^6+166838r^8R^6-120l^6rR^7+19224l^4r^3R^7-176296l^2r^5R^7+197384r^7R^7-9l^6R^8+2485l^4r^2R^8-68859l^2r^4R^8+152007r^6R^8+144l^4rR^9-13912l^2r^3R^9+72376r^5R^9+4l^4R^{10}-1312l^2r^2R^{10}+19724r^4R^{10}-48l^2rR^{11}+2672r^3R^{11}+144r^2R^{12}\right)\Big/$$
$$\left(\left(l^2-3r^2-6rR\right)^2\left(l^4-2l^2r^2+r^4-8l^2rR+8r^3R-6l^2R^2+22r^2R^2+24rR^3+7R^4\right)^2\right)\Big\}$$

$$\left\{X31,\ \text{SecondPowerPoint},\ X71,\ \text{ISOGONAL CONJUGATE OF } X(27),\right.$$
$$\left.\frac{4R^2\left(l^2-r^2-2rR\right)^2\left(3l^4-14l^2r^2-r^4-28l^2rR-12r^3R+4l^2R^2-48r^2R^2-64rR^3\right)}{\left(l^2-3r^2-6rR\right)^2\left(l^2+r^2+6rR+8R^2\right)^2}\right\}$$

$$\left\{X31,\ \text{SecondPowerPoint},\ X72,\ \text{ISOGONAL CONJUGATE OF } X(28),\right.$$
$$-\frac{1}{R\left(-l^2+3r^2+6rR\right)^2}\left(-l^6r+7l^4r^3-15l^2r^5+9r^7-l^6R+20l^4r^2R-77l^2r^4R+78r^6R+24l^4rR^2-168l^2r^3R^2+264r^5R^2-144l^2r^2R^3+412r^4R^3+256r^3R^4\right)\Big\}$$

$$\left\{X31,\ \text{SecondPowerPoint},\ X73,\ \text{CROSSPOINT OF INCENTER AND CIRCUMCENTER},\right.$$
$$\left(16r^2R^2\left(l^4r^2-10l^2r^4+5r^6-28l^2r^3R+36r^5R-l^4R^2-6l^2r^2R^2+95r^4R^2+20l^2rR^3+84r^3R^3+4l^2R^4-32r^2R^4-64rR^5\right)\right)\Big/\left(\left(l^2-3r^2-6rR\right)^2\left(l^2+r^2-2rR-4R^2\right)^2\right)\Big\}$$

$$\left\{X31,\ \text{SecondPowerPoint},\ X74,\ \text{ISOGONAL CONJUGATE OF EULER INFINITY POINT},\right.$$
$$\left(R^2\left(9l^6-69l^4r^2+123l^2r^4-55r^6-144l^4rR+600l^2r^3R-440r^5R-36l^4R^2+960l^2r^2R^2-1420r^4R^2+432l^2rR^3-2160r^3R^3-1296r^2R^4\right)\right)\Big/\left(\left(l^2-3r^2-6rR\right)^2\left(2l^2-2r^2-8rR-9R^2\right)\right)\Big\}$$

$$\left\{X31,\ \text{SecondPowerPoint},\ X75,\ \text{ISOTOMIC CONJUGATE OF INCENTER},\right.$$
$$\left(l^{10}+l^8r^2-6l^6r^4-14l^4r^6-11l^2r^8-3r^{10}-24l^8rR+72l^6r^3R-216l^4r^5R+152l^2r^7R-48r^9R+160l^6r^2R^2-688l^4r^4R^2+1152l^2r^6R^2-304r^8R^2-576l^4r^3R^3+2176l^2r^5R^3-960r^7R^3+1088l^2r^4R^4-1536r^6R^4-1024r^5R^5\right)\Big/\left(\left(l^2-3r^2-6rR\right)^2\left(l^2+r^2+4rR\right)^2\right)\Big\}$$

$$\left\{X31,\ \text{SecondPowerPoint},\ X76,\ \text{3rd BROCARD POINT},\ \frac{1}{\left(l^2-3r^2-6rR\right)^2\left(l^4+2l^2r^2+r^4-8l^2rR+8r^3R+16r^2R^2\right)^2}\right.$$
$$\left(l^{14}+3l^{12}r^2-3l^{10}r^4-25l^8r^6-45l^6r^8-39l^4r^{10}-17l^2r^{12}-3r^{14}-32l^{12}rR-40l^{10}r^3R+88l^8r^5R+\right.$$
$$112l^6r^7R-112l^4r^9R-200l^2r^{11}R-72r^{13}R+336l^{10}r^2R^2+416l^8r^4R^2-1760l^6r^6R^2+$$
$$1984l^4r^8R^2-1008l^2r^{10}R^2-736r^{12}R^2-1344l^8r^3R^3-3968l^6r^5R^3+10368l^4r^7R^3-$$
$$\left.\left.3456l^2r^9R^3-4160r^{11}R^3+576l^6r^4R^4+16768l^4r^6R^4-9152l^2r^8R^4-14080r^{10}R^4+\right.\right.$$
$$\left.\left.7680l^4r^5R^5-13824l^2r^7R^5-28672r^9R^5-7168l^2r^6R^6-32768r^8R^6-16384r^7R^7\right)\right\}$$

$$\left\{X31,\ \text{SecondPowerPoint},\ X77,\ \text{ISOGONAL CONJUGATE OF X(33)},\ \left(r^2R\left(4l^6r-16l^4r^3+12l^2r^5+5l^6R-77l^4r^2R+91l^2r^4R-3r^6R-120l^4rR^2+328l^2r^3R^2-48r^5R^2-\right.\right.\right.$$
$$\left.\left.\left.32l^4R^3+672l^2r^2R^3-304r^4R^3+640l^2rR^4-960r^3R^4+64l^2R^5-1536r^2R^5-1024rR^6\right)\right)\Big/\left(\left(l^2-3r^2-6rR\right)^2\left(l^2-rR-4R^2\right)^2\right)\right\}$$

$$\left\{X31,\ \text{SecondPowerPoint},\ X78,\ \text{ISOGONAL CONJUGATE OF X(34)},\ -\left(\left(R\left(4l^4r^3-16l^2r^5+12r^7-l^6R+l^4r^2R-31l^2r^4R+79r^6R+24l^4rR^2-88l^2r^3R^2+\right.\right.\right.\right.$$
$$\left.\left.\left.224r^5R^2-144l^2r^2R^3+320r^4R^3+256r^3R^4\right)\right)\Big/\left((r-R)^2\left(-l^2+3r^2+6rR\right)^2\right)\right)\right\}$$

$$\left\{X31,\ \text{SecondPowerPoint},\ X79,\ \text{ISOGONAL CONJUGATE OF X(35)},\ \left(4r^2\left(-2l^6+18l^4r^2-38l^2r^4+6r^6+36l^4rR-160l^2r^3R+60r^5R+6l^4R^2-204l^2r^2R^2+206r^4R^2-\right.\right.\right.$$
$$\left.\left.\left.66l^2rR^3+254r^3R^3+9l^2R^4-3r^2R^4-144rR^5\right)\right)\Big/\left((2r+3R)^2\left(-l^2+3r^2+6rR\right)^2\right)\right\}$$

$$\left\{X31,\ \text{SecondPowerPoint},\ X80,\ \text{REFLECTION OF INCENTER IN FEUERBACH POINT},\ \frac{4r^2\left(4l^4r-16l^2r^3+12r^5-40l^2r^2R+72r^4R-16l^2rR^2+136r^3R^2-l^2R^3+83r^2R^3+16rR^4\right)}{(2r-R)\left(-l^2+3r^2+6rR\right)^2}\right\}$$

$$\left\{X31,\ \text{SecondPowerPoint},\ X81,\ \text{CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},\ \frac{r^2R\left(l^2+r^2+4rR\right)^2\left(2l^2r-6r^3+l^2R-19r^2R-16rR^2\right)}{\left(l^2-3r^2-6rR\right)^2\left(l^2-r^2-rR\right)^2}\right\}$$

$$\left\{X31,\ \text{SecondPowerPoint},\ X82,\ \text{ISOGONAL CONJUGATE OF X(38)},\ \left(r^2R^2\left(l^{10}+l^8r^2-6l^6r^4-14l^4r^6-11l^2r^8-3r^{10}-24l^8rR+72l^6r^3R-\right.\right.\right.$$
$$\left.\left.\left.216l^4r^5R+152l^2r^7R-48r^9R+160l^6r^2R^2-688l^4r^4R^2+1152l^2r^6R^2-304r^8R^2-\right.\right.\right.$$
$$\left.\left.\left.576l^4r^3R^3+2176l^2r^5R^3-960r^7R^3+1088l^2r^4R^4-1536r^6R^4-1024r^5R^5\right)\right)\Big/\left(\left(l^2-3r^2-6rR\right)^2\left(l^4-4l^2r^2+3r^4-9l^2rR+19r^3R+28r^2R^2\right)^2\right)\right\}$$

$$\left\{X31,\ \text{SecondPowerPoint},\ X83,\ \text{CEVAPOINT OF CENTROID AND SYMMEDIAN POINT},\ \left(l^{14}+11l^{12}r^2-3l^{10}r^4-81l^8r^6-109l^6r^8-15l^4r^{10}+47l^2r^{12}+21r^{14}-32l^{12}rR-232l^{10}r^3R+\right.\right.$$
$$280l^8r^5R+368l^6r^7R-368l^4r^9R+248l^2r^{11}R+504r^{13}R+368l^{10}r^2R^2+1888l^8r^4R^2-$$
$$4064l^6r^6R^2+2944l^4r^8R^2-2832l^2r^{10}R^2+5024r^{12}R^2-2240l^8r^3R^3-8704l^6r^5R^3+24064l^4r^7R^3-$$
$$26880l^2r^9R^3+26560r^{11}R^3+8256l^6r^4R^4+27008l^4r^6R^4-74176l^2r^8R^4+78080r^{10}R^4-$$
$$18944l^4r^5R^5-56832l^2r^7R^5+118784r^9R^5+25600l^2r^6R^6+65536r^8R^6-16384r^7R^7\Big)\Big/$$
$$\left.\left(\left(l^2-3r^2-6rR\right)^2\left(5l^4-6l^2r^2+5r^4-40l^2rR+40r^3R+80r^2R^2\right)^2\right)\right\}$$

$$\left\{X31,\ \text{SecondPowerPoint},\ X84,\ \text{ISOGONAL CONJUGATE OF X(40)},\ -\frac{1}{r^2\left(-l^2+3r^2+6rR\right)^2}4R\left(-l^6r+4l^4r^3-3l^2r^5+l^6R+8l^4r^2R-20l^2r^4R+r^6R-12l^4rR^2-\right.\right.$$
$$\left.\left.12l^2r^3R^2+4r^5R^2-4l^4R^3+60l^2r^2R^3-36r^4R^3+48l^2rR^4-144r^3R^4-144r^2R^5\right)\right\}$$

$$\left\{X31,\ \text{SecondPowerPoint},\ X85,\ \text{ISOTOMIC CONJUGATE OF } X(9),\ \frac{1}{\left(l^2-3r^2-6rR\right)^2\left(l^2+r^2+8rR+16R^2\right)^2}\left(l^{10}+l^8r^2-6l^6r^4-14l^4r^6-11l^2r^8-3r^{10}-32l^8rR+152l^6r^3R-312l^4r^5R-56l^2r^7R-72r^9R+368l^6r^2R^2-1344l^4r^4R^2+368l^2r^6R^2-736r^8R^2+64l^6rR^3-2176l^4r^3R^3+3200l^2r^5R^3-4160r^7R^3-1280l^4r^2R^4+7744l^2r^4R^4-14080r^6R^4+6656l^2r^3R^5-28672r^5R^5+1024l^2r^2R^6-32768r^4R^6-16384r^3R^7\right)\right\}$$

$$\left\{X31,\ \text{SecondPowerPoint},\ X86,\ \text{CEVAPOINT OF INCENTER AND CENTROID},\ \left(l^{10}+17l^8r^2-22l^6r^4-94l^4r^6-59l^2r^8-3r^{10}-8l^8rR-40l^6r^3R-360l^4r^5R-376l^2r^7R-48r^9R-96l^6r^2R^2-432l^4r^4R^2-896l^2r^6R^2-304r^8R^2-448l^4r^3R^3-1152l^2r^5R^3-960r^7R^3-960l^2r^4R^4-1536r^6R^4-1024r^5R^5\right)\Big/\left(\left(l^2-3r^2-6rR\right)^2\left(5l^2+r^2+4rR\right)^2\right)\right\}$$

$$\left\{X31,\ \text{SecondPowerPoint},\ X87,\ X(2)\text{-CROSS CONJUGATE OF } X(1),\ -\left(\left(4r^2R\left(2l^{10}r+2l^8r^3-12l^6r^5-28l^4r^7-22l^2r^9-6r^{11}-l^{10}R-49l^8r^2R+38l^6r^4R+142l^4r^6R-21l^2r^8R-77r^{10}R+16l^8rR^2+240l^6r^3R^2+112l^4r^5R^2-432l^2r^7R^2-320r^9R^2-32l^6r^2R^3-800l^4r^4R^3-992l^2r^6R^3-224r^8R^3+512l^4r^3R^4+256l^2r^5R^4+1792r^7R^4-256l^2r^4R^5+4864r^6R^5+4096r^5R^6\right)\right)\Big/\left(\left(l^2-3r^2-6rR\right)^2\left(l^4+2l^2r^2+r^4-20l^2rR+12r^3R+32r^2R^2\right)^2\right)\right)\right\}$$

$$\left\{X31,\ \text{SecondPowerPoint},\ X88,\ \text{ISOGONAL CONJUGATE OF } X(44),\ -\left(\left(r^2R\left(10l^6r+54l^4r^3-306l^2r^5+162r^7-l^6R-191l^4r^2R-219l^2r^4R+1251r^6R-8l^4rR^2+192l^2r^3R^2+2376r^5R^2+240l^2r^2R^3+432r^4R^3+2304r^3R^4\right)\right)\Big/\left(\left(l^2+3r^2-15rR\right)^2\left(l^2-3r^2-6rR\right)^2\right)\right)\right\}$$

$$\left\{X31,\ \text{SecondPowerPoint},\ X89,\ \text{ISOGONAL CONJUGATE OF } X(45),\ -\left(\left(r^2R\left(4l^6r+12l^4r^3-180l^2r^5+324r^7-l^6R-59l^4r^2R-915l^2r^4R+3303r^6R-32l^4rR^2-1704l^2r^3R^2+11448r^5R^2+192l^2r^2R^3+15984r^4R^3+9216r^3R^4\right)\right)\Big/\left(\left(l^2-3r^2-6rR\right)^2\left(2l^2-6r^2+3rR\right)^2\right)\right)\right\}$$

$$\left\{X31,\ \text{SecondPowerPoint},\ X90,\ X(3)\text{-CROSS CONJUGATE OF } X(1),\ \left(4r^2R\left(l^6r-4l^4r^3+3l^2r^5-10l^4r^2R+17l^2r^4R-r^6R-7l^4rR^2+42l^2r^3R^2-11r^5R^2+46l^2r^2R^3-42r^4R^3+14l^2rR^4-70r^3R^4+l^2R^5-51r^2R^5-16rR^6\right)\right)\Big/\left(\left(l^2-3r^2-6rR\right)^2\left(r^2+2rR-R^2\right)^2\right)\right\}$$

$$\left\{X31,\ \text{SecondPowerPoint},\ X91,\ \text{ISOGONAL CONJUGATE OF } X(47),\ \frac{1}{\left(l^2-3r^2-6rR\right)^2\left(l^2r+r^3-l^2R+3r^2R+2rR^2+2R^3\right)^2}r^2\left(l^{10}+l^8r^2-6l^6r^4-14l^4r^6-11l^2r^8-3r^{10}-32l^8rR+88l^6r^3R-184l^4r^5R+136l^2r^7R-72r^9R-8l^8R^2+320l^6r^2R^2-960l^4r^4R^2+1376l^2r^6R^2-664r^8R^2+232l^6rR^3-2120l^4r^3R^3+4600l^2r^5R^3-3160r^7R^3+24l^6R^4-1928l^4r^2R^4+8040l^2r^4R^4-8632r^6R^4-608l^4rR^5+7904l^2r^3R^5-14144r^5R^5-32l^4R^6+3776l^2r^2R^6-14048r^4R^6+672l^2rR^7-8160r^3R^7+16l^2R^8-2352r^2R^8-256rR^9\right)\right\}$$

$$\left\{X31,\ \text{SecondPowerPoint},\ X92,\ \text{CEVAPOINT OF INCENTER AND CLAWSON POINT},\ \frac{1}{\left(l^2-3r^2-6rR\right)^2\left(l^2+r^2-4R^2\right)^2}\left(l^{10}+l^8r^2-6l^6r^4-14l^4r^6-11l^2r^8-3r^{10}-32l^8rR+88l^6r^3R-184l^4r^5R+136l^2r^7R-72r^9R-8l^8R^2+320l^6r^2R^2-960l^4r^4R^2+1376l^2r^6R^2-664r^8R^2+224l^6rR^3-2112l^4r^3R^3+4640l^2r^5R^3-3136r^7R^3+16l^6R^4-1808l^4r^2R^4+7920l^2r^4R^4-8368r^6R^4-384l^4rR^5+6912l^2r^3R^5-12928r^5R^5+2304l^2r^2R^6-11008r^4R^6-4096r^3R^7\right)\right\}$$

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{X31, SecondPowerPoint, X93, ISOGONAL CONJUGATE OF X(49),
 (l^14 + 3 l^12 r^2 - 3 l^10 r^4 - 25 l^8 r^6 - 45 l^6 r^8 - 39 l^4 r^10 - 17 l^2 r^12 - 3 r^14 - 32 l^12 r R - 40 l^10 r^3 R +
    88 l^8 r^5 R + 112 l^6 r^7 R - 112 l^4 r^9 R - 200 l^2 r^11 R - 72 r^13 R - 10 l^12 R^2 + 280 l^10 r^2 R^2 +
    670 l^8 r^4 R^2 - 1536 l^6 r^6 R^2 + 1490 l^4 r^8 R^2 - 1432 l^2 r^10 R^2 - 742 r^12 R^2 + 280 l^10 r R^3 -
    504 l^8 r^3 R^3 - 7856 l^6 r^5 R^3 + 13360 l^4 r^7 R^3 - 8424 l^2 r^9 R^3 - 4280 r^11 R^3 + 32 l^10 R^4 -
    1884 l^8 r^2 R^4 - 9024 l^6 r^4 R^4 + 44904 l^4 r^6 R^4 - 35712 l^2 r^8 R^4 - 15020 r^10 R^4 - 768 l^8 r R^5 -
    256 l^6 r^3 R^5 + 69696 l^4 r^5 R^5 - 97152 l^2 r^7 R^5 - 32192 r^9 R^5 - 34 l^8 R^6 + 3108 l^6 r^2 R^6 +
    48712 l^4 r^4 R^6 - 160932 l^2 r^6 R^6 - 38054 r^8 R^6 + 680 l^6 r R^7 + 11624 l^4 r^3 R^7 - 152968 l^2 r^5 R^7 -
    11720 r^7 R^7 + 7 l^6 R^8 - 307 l^4 r^2 R^8 - 74891 l^2 r^4 R^8 + 28975 r^6 R^8 - 112 l^4 r R^9 - 15160 l^2 r^3 R^9 +
    39160 r^5 R^9 + 4 l^4 R^10 - 1152 l^2 r^2 R^10 + 18316 r^4 R^10 - 48 l^2 r R^11 + 2672 r^3 R^11 + 144 r^2 R^12) /
  ((l^2 - 3 r^2 - 6 r R)^2 (l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 8 l^2 R^2 + 24 r^2 R^2 + 32 r R^3 + 13 R^4)^2)}

{X31, SecondPowerPoint, X94, ISOGONAL CONJUGATE OF X(50),
 (l^14 + 3 l^12 r^2 - 3 l^10 r^4 - 25 l^8 r^6 - 45 l^6 r^8 - 39 l^4 r^10 - 17 l^2 r^12 - 3 r^14 - 32 l^12 r R - 40 l^10 r^3 R +
    88 l^8 r^5 R + 112 l^6 r^7 R - 112 l^4 r^9 R - 200 l^2 r^11 R - 72 r^13 R - 12 l^12 R^2 + 276 l^10 r^2 R^2 +
    680 l^8 r^4 R^2 - 1496 l^6 r^6 R^2 + 1540 l^4 r^8 R^2 - 1404 l^2 r^10 R^2 - 736 r^12 R^2 + 336 l^10 r R^3 - 480 l^8 r^3 R^3 -
    8000 l^6 r^5 R^3 + 13344 l^4 r^7 R^3 - 8208 l^2 r^9 R^3 - 4160 r^11 R^3 + 54 l^10 R^4 - 2358 l^8 r^2 R^4 - 9060 l^6 r^4 R^4 +
    44788 l^4 r^6 R^4 - 35282 l^2 r^8 R^4 - 14014 r^10 R^4 - 1296 l^8 r R^5 + 1776 l^6 r^3 R^5 + 69936 l^4 r^5 R^5 -
    97968 l^2 r^7 R^5 - 27616 r^9 R^5 - 108 l^8 R^6 + 6372 l^6 r^2 R^6 + 45828 l^4 r^4 R^6 - 165268 l^2 r^6 R^6 -
    25928 r^8 R^6 + 2160 l^6 r R^7 + 4320 l^4 r^3 R^7 - 158064 l^2 r^5 R^7 + 6560 r^7 R^7 + 81 l^6 R^8 - 5589 l^4 r^2 R^8 -
    75213 l^2 r^4 R^8 + 41817 r^6 R^8 - 1296 l^4 r R^9 - 12744 l^2 r^3 R^9 + 38088 r^5 R^9 + 11664 r^4 R^10) /
  ((l^2 - 3 r^2 - 6 r R)^2 (l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 12 l^2 R^2 + 28 r^2 R^2 + 48 r R^3 + 27 R^4)^2)}

{X31, SecondPowerPoint, X95, CEVAPOINT OF CENTROID AND CIRCUMCENTER,
 (l^14 + 19 l^12 r^2 + 13 l^10 r^4 - 121 l^8 r^6 - 269 l^6 r^8 - 215 l^4 r^10 - 65 l^2 r^12 - 3 r^14 - 32 l^12 r R - 424 l^10 r^3 R +
    216 l^8 r^5 R + 752 l^6 r^7 R - 752 l^4 r^9 R - 968 l^2 r^11 R - 72 r^13 R - 8 l^12 R^2 + 240 l^10 r^2 R^2 + 3480 l^8 r^4 R^2 -
    4896 l^6 r^6 R^2 + 2536 l^4 r^8 R^2 - 6480 l^2 r^10 R^2 - 760 r^12 R^2 + 224 l^10 r R^3 + 352 l^8 r^3 R^3 - 17344 l^6 r^5 R^3 +
    20928 l^4 r^7 R^3 - 25632 l^2 r^9 R^3 - 4640 r^11 R^3 + 16 l^10 R^4 - 1712 l^8 r^2 R^4 - 10336 l^6 r^4 R^4 +
    56544 l^4 r^6 R^4 - 64560 l^2 r^8 R^4 - 18096 r^10 R^4 - 384 l^8 r R^5 + 2688 l^6 r^3 R^5 + 49792 l^4 r^5 R^5 -
    102528 l^2 r^7 R^5 - 46848 r^9 R^5 + 2048 l^6 r^2 R^6 + 18688 l^4 r^4 R^6 - 97792 l^2 r^6 R^6 - 80640 r^8 R^6 +
    1024 l^4 r^3 R^7 - 53248 l^2 r^5 R^7 - 89088 r^7 R^7 - 15360 l^2 r^4 R^8 - 57344 r^6 R^8 - 16384 r^5 R^9) /
  ((l^2 - 3 r^2 - 6 r R)^2 (l^4 + 18 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 4 l^2 R^2 + 20 r^2 R^2 + 16 r R^3)^2)}

{X31, SecondPowerPoint, X96, ISOGONAL CONJUGATE OF X(52),
 -((l^14 - 13 l^12 r^2 - 19 l^10 r^4 + 71 l^8 r^6 + 179 l^6 r^8 + 137 l^4 r^10 + 31 l^2 r^12 - 3 r^14 - 32 l^12 r R + 344 l^10 r^3 R -
      40 l^8 r^5 R - 528 l^6 r^7 R + 528 l^4 r^9 R + 568 l^2 r^11 R - 72 r^13 R - 12 l^12 R^2 + 584 l^10 r^2 R^2 - 3732 l^8 r^4 R^2 +
      3568 l^6 r^6 R^2 - 2612 l^4 r^8 R^2 + 5064 l^2 r^10 R^2 - 812 r^12 R^2 + 336 l^10 r R^3 - 6576 l^8 r^3 R^3 +
      24160 l^6 r^5 R^3 - 27424 l^4 r^7 R^3 + 27984 l^2 r^9 R^3 - 5680 r^11 R^3 + 56 l^10 R^4 - 4552 l^8 r^2 R^4 +
      44240 l^6 r^4 R^4 - 101360 l^4 r^6 R^4 + 102264 l^2 r^8 R^4 - 27080 r^10 R^4 - 1344 l^8 r R^5 + 35776 l^6 r^3 R^5 -
      177984 l^4 r^5 R^5 + 250176 l^2 r^7 R^5 - 90752 r^9 R^5 - 128 l^8 R^6 + 14240 l^6 r^2 R^6 - 162848 l^4 r^4 R^6 +
      399840 l^2 r^6 R^6 - 213984 r^8 R^6 + 2560 l^6 r R^7 - 80256 l^4 r^3 R^7 + 395264 l^2 r^5 R^7 - 348800 r^7 R^7 +
      144 l^6 R^8 - 20560 l^4 r^2 R^8 + 231728 l^2 r^4 R^8 - 379632 r^6 R^8 - 2304 l^4 r R^9 + 76672 l^2 r^3 R^9 -
      262016 r^5 R^9 - 64 l^4 R^10 + 12800 l^2 r^2 R^10 - 108224 r^4 R^10 + 768 l^2 r R^11 - 24320 r^3 R^11 - 2304 r^2 R^12) /
    ((l^2 - 3 r^2 - 6 r R)^2 (l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2 - 4 R^4)^2))}

{X31, SecondPowerPoint, X97, ISOGONAL CONJUGATE OF X(53),
 (R^2 (2 l^10 r^2 - 6 l^8 r^4 - 28 l^6 r^6 - 28 l^4 r^8 - 6 l^2 r^10 + 2 r^12 - 40 l^8 r^3 R + 176 l^6 r^5 R - 384 l^4 r^7 R - 48 l^2 r^9 R +
      40 r^11 R + l^10 R^2 + l^8 r^2 R^2 + 150 l^6 r^4 R^2 - 762 l^4 r^6 R^2 - 311 l^2 r^8 R^2 + 345 r^10 R^2 - 24 l^8 r R^3 +
      72 l^6 r^3 R^3 - 376 l^4 r^5 R^3 - 1480 l^2 r^7 R^3 + 1680 r^9 R^3 - 8 l^8 R^4 + 96 l^6 r^2 R^4 + 480 l^4 r^4 R^4 -
      3584 l^2 r^6 R^4 + 5064 r^8 R^4 + 160 l^6 r R^5 - 352 l^4 r^3 R^5 - 3616 l^2 r^5 R^5 + 9696 r^7 R^5 + 16 l^6 R^6 -
      464 l^4 r^2 R^6 - 464 l^2 r^4 R^6 + 11536 r^6 R^6 - 256 l^4 r R^7 + 896 l^2 r^3 R^7 + 7808 r^5 R^7 + 2304 r^4 R^8)) /
  ((l^2 - 3 r^2 - 6 r R)^2 (l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 7 l^2 R^2 + 23 r^2 R^2 + 28 r R^3 + 12 R^4)^2)}
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$$\{X31, SecondPowerPoint, X98, TarryPoint, -\left(\left(l^{10}+l^8 r^2-6 l^6 r^4-14 l^4 r^6-11 l^2 r^8-3 r^{10}-24 l^8 r R+8 l^6 r^3 R+40 l^4 r^5 R-40 l^2 r^7 R-48 r^9 R-4 l^8 R^2+216 l^6 r^2 R^2-272 l^4 r^4 R^2+200 l^2 r^6 R^2-332 r^8 R^2+80 l^6 r R^3-1008 l^4 r^3 R^3+1328 l^2 r^5 R^3-1296 r^7 R^3-592 l^4 r^2 R^4+2848 l^2 r^4 R^4-3024 r^6 R^4+1920 l^2 r^3 R^5-3968 r^5 R^5-2304 r^4 R^6\right)/\left(\left(l^2-3 r^2-6 r R\right)^2\left(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)\right)\right)\}$$

$$\{X31, SecondPowerPoint, X99, STEINER POINT, \left(l^{10}+l^8 r^2-6 l^6 r^4-14 l^4 r^6-11 l^2 r^8-3 r^{10}-24 l^8 r R+8 l^6 r^3 R+40 l^4 r^5 R-40 l^2 r^7 R-48 r^9 R+128 l^6 r^2 R^2+208 l^4 r^4 R^2-224 l^2 r^6 R^2-304 r^8 R^2+64 l^4 r^3 R^3-768 l^2 r^5 R^3-960 r^7 R^3-960 l^2 r^4 R^4-1536 r^6 R^4-1024 r^5 R^5\right)/\left(\left(l^2-3 r^2-6 r R\right)^2\left(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)\right)\}$$

$$\{X31, SecondPowerPoint, X100, ANTICOMPLEMENT OF FEUERBACH POINT, \frac{R\left(-l^6+l^4 r^2+5 l^2 r^4+3 r^6+24 l^4 r R-64 l^2 r^3 R+40 r^5 R-144 l^2 r^2 R^2+176 r^4 R^2+256 r^3 R^3\right)}{(2 r-R)\left(-l^2+3 r^2+6 r R\right)^2}\}$$

$$\{X32, ThirdPowerPoint, X33, PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES, \left(4 r^2 R\left(6 l^{10} r-44 l^8 r^3+56 l^6 r^5-20 l^4 r^7+2 l^2 r^9-89 l^8 r^2 R+344 l^6 r^4 R-230 l^4 r^6 R+40 l^2 r^8 R-r^{10} R-60 l^8 r R^2+844 l^6 r^3 R^2-1196 l^4 r^5 R^2+372 l^2 r^7 R^2-24 r^9 R^2-4 l^8 R^3+804 l^6 r^2 R^3-3360 l^4 r^4 R^3+1988 l^2 r^6 R^3-244 r^8 R^3+256 l^6 r R^4-4656 l^4 r^3 R^4+6208 l^2 r^5 R^4-1360 r^7 R^4+16 l^6 R^5-2528 l^4 r^2 R^5+10704 l^2 r^4 R^5-4480 r^6 R^5-384 l^4 r R^6+8832 l^2 r^3 R^6-8704 r^5 R^6+2304 l^2 r^2 R^7-9216 r^4 R^7-4096 r^3 R^8\right)\right)/\left(\left(l^2-2 l r-r^2-4 r R\right)^2\left(l^2+2 l r-r^2-4 r R\right)^2\left(l^2-r^2-2 r R-4 R^2\right)^2\right)\}$$

$$\{X32, ThirdPowerPoint, X34, X(4)-BETH CONJUGATE OF X(4), -\left(\left(4 r^2 R\left(6 l^8 r^3-44 l^6 r^5+56 l^4 r^7-20 l^2 r^9+2 r^{11}+13 l^8 r^2 R-144 l^6 r^4 R+454 l^4 r^6 R-304 l^2 r^8 R+45 r^{10} R+12 l^8 r R^2-340 l^6 r^3 R^2+1604 l^4 r^5 R^2-1900 l^2 r^7 R^2+432 r^9 R^2+4 l^8 R^3-372 l^6 r^2 R^3+3216 l^4 r^4 R^3-6388 l^2 r^6 R^3+2308 r^8 R^3-160 l^6 r R^4+3696 l^4 r^3 R^4-12640 l^2 r^5 R^4+7504 r^7 R^4-16 l^6 R^5+2016 l^4 r^2 R^5-14800 l^2 r^4 R^5+15232 r^6 R^5+384 l^4 r R^6-9344 l^2 r^3 R^6+18944 r^5 R^6-2304 l^2 r^2 R^7+13312 r^4 R^7+4096 r^3 R^8\right)\right)/\left(\left(l^2-2 l r-r^2-4 r R\right)^2\left(l^2+2 l r-r^2-4 r R\right)^2\left(l^2-r^2-6 r R-4 R^2\right)^2\right)\right)\}$$

$$\{X32, ThirdPowerPoint, X35, \{X(1),X(3)\}-HARMONIC CONJUGATE OF X(36), -\left(\left(4 r^2 R^2\left(-2 l^8+22 l^6 r^2-30 l^4 r^4+10 l^2 r^6+29 l^6 r R-141 l^4 r^3 R+87 l^2 r^5 R+r^7 R-l^6 R^2-114 l^4 r^2 R^2+207 l^2 r^4 R^2+16 r^6 R^2+24 l^4 r R^3+40 l^2 r^3 R^3+96 r^5 R^3-144 l^2 r^2 R^4+256 r^4 R^4+256 r^3 R^5\right)\right)/\left((2 r+R)^2\left(-l^2-2 l r+r^2+4 r R\right)^2\left(-l^2+2 l r+r^2+4 r R\right)^2\right)\right)\}$$

$$\{X32, ThirdPowerPoint, X36, INVERSE-IN-CIRCUMCIRCLE OF INCENTER, \left(4 r^2 R^2\left(-5 l^6 r+15 l^4 r^3-11 l^2 r^5+r^7-l^6 R+62 l^4 r^2 R-97 l^2 r^4 R+16 r^6 R+24 l^4 r R^2-248 l^2 r^3 R^2+96 r^5 R^2-144 l^2 r^2 R^3+256 r^4 R^3+256 r^3 R^4\right)\right)/\left((2 r-R)\left(-l^2-2 l r+r^2+4 r R\right)^2\left(-l^2+2 l r+r^2+4 r R\right)^2\right)\}$$

$$\{X32, ThirdPowerPoint, X37, CrosspointOfIncenterAndCentroid, \left(16 l^4 r^2 R\left(2 l^6 r-14 l^4 r^3+14 l^2 r^5-2 r^7+l^6 R-33 l^4 r^2 R+83 l^2 r^4 R-27 r^6 R-24 l^4 r R^2+192 l^2 r^3 R^2-136 r^5 R^2+144 l^2 r^2 R^3-304 r^4 R^3-256 r^3 R^4\right)\right)/\left(\left(l^2-2 l r-r^2-4 r R\right)^2\left(l^2+2 l r-r^2-4 r R\right)^2\left(l^2+r^2+4 r R\right)^2\right)\}$$

$$\{X32, ThirdPowerPoint, X38, CROSSPOINT OF X(1) AND X(75), \frac{1}{\left(l^2-2 l r-r^2-4 r R\right)^2\left(l^2+2 l r-r^2-4 r R\right)^2\left(l^2+r^2-2 r R\right)^2} 4 r^2 R\left(10 l^{10} r-90 l^8 r^3+212 l^6 r^5-164 l^4 r^7+34 l^2 r^9-2 r^{11}+4 l^{10} R-241 l^8 r^2 R+1268 l^6 r^4 R-1702 l^4 r^6 R+576 l^2 r^8 R-49 r^{10} R-120 l^8 r R^2+2308 l^6 r^3 R^2-6404 l^4 r^5 R^2+3852 l^2 r^7 R^2-500 r^9 R^2+1188 l^6 r^2 R^3-10072 l^4 r^4 R^3+12580 l^2 r^6 R^3-2720 r^8 R^3-5344 l^4 r^3 R^4+19680 l^2 r^5 R^4-8320 r^7 R^4+11328 l^2 r^4 R^5-13568 r^6 R^5-9216 r^5 R^6\right)\}$$

$$\left\{X32,\ \text{ThirdPowerPoint},\ X39,\ \text{BrocardMidpoint},\ \frac{64\,l^4 r^4 R^2 \left(l^2-r^2-4\,r\,R\right)^2 \left(l^4-14\,l^2 r^2+r^4-8\,l^2 r\,R+8\,r^3 R+16\,r^2 R^2\right)}{\left(l^2-2\,l\,r-r^2-4\,r\,R\right)^2 \left(l^2+2\,l\,r-r^2-4\,r\,R\right)^2 \left(l^4+2\,l^2 r^2+r^4-8\,l^2 r\,R+8\,r^3 R+16\,r^2 R^2\right)^2}\right\}$$

$$\{X32,\ \text{ThirdPowerPoint},\ X40,\ \text{BEVAN POINT},\ -\left(\left(4\,R\left(l^8 r-9\,l^6 r^3+19\,l^4 r^5-3\,l^2 r^7-l^8 R-l^6 r^2 R+32\,l^4 r^4 R-17\,l^2 r^6 R-r^8 R+16\,l^6 r\,R^2-56\,l^4 r^3 R^2+24\,l^2 r^5 R^2-16\,r^7 R^2-96\,l^4 r^2 R^3+240\,l^2 r^4 R^3-96\,r^6 R^3+256\,l^2 r^3 R^4-256\,r^5 R^4-256\,r^4 R^5\right)\right)\Big/\left(\left(l^2-2\,l\,r-r^2-4\,r\,R\right)^2\left(l^2+2\,l\,r-r^2-4\,r\,R\right)^2\right)\right)\}$$

$$\{X32,\ \text{ThirdPowerPoint},\ X41,\ X(6)\text{-CEVA CONJUGATE OF } X(31),\ -\left(\left(4\,l^4 r^2 R^2\left(l^8+4\,l^6 r^2+6\,l^4 r^4+4\,l^2 r^6+r^8-28\,l^6 r\,R+92\,l^4 r^3 R+12\,l^2 r^5 R+20\,r^7 R-4\,l^6 R^2+152\,l^4 r^2 R^2-132\,l^2 r^4 R^2+160\,r^6 R^2+96\,l^4 r\,R^3-608\,l^2 r^3 R^3+640\,r^5 R^3-576\,l^2 r^2 R^4+1280\,r^4 R^4+1024\,r^3 R^5\right)\right)\Big/\left(\left(l^2-2\,l\,r-r^2-4\,r\,R\right)^2\left(l^2+2\,l\,r-r^2-4\,r\,R\right)^2\left(3\,l^2 r-r^3+2\,l^2 R-8\,r^2 R-16\,r\,R^2\right)^2\right)\right)\}$$

$$\{X32,\ \text{ThirdPowerPoint},\ X42,\ \text{CROSSPOINT OF INCENTER AND SYMMEDIAN POINT},\ \left(4\,r^4 R^2\left(15\,l^8-164\,l^6 r^2+74\,l^4 r^4-4\,l^2 r^6-r^8-164\,l^6 r\,R+356\,l^4 r^3 R-12\,l^2 r^5 R-20\,r^7 R+4\,l^6 R^2+360\,l^4 r^2 R^2+132\,l^2 r^4 R^2-160\,r^6 R^2-96\,l^4 r\,R^3+608\,l^2 r^3 R^3-640\,r^5 R^3+576\,l^2 r^2 R^4-1280\,r^4 R^4-1024\,r^3 R^5\right)\right)\Big/\left(\left(l^2-2\,l\,r-r^2-4\,r\,R\right)^2\left(l^2+2\,l\,r-r^2-4\,r\,R\right)^2\left(l^2+r^2-2\,r\,R\right)^2\right)\}$$

$$\{X32,\ \text{ThirdPowerPoint},\ X43,\ X(6)\text{-CEVA CONJUGATE OF } X(1),\ -\frac{1}{\left(l^2+r^2-8\,r\,R\right)^2\left(l^2-2\,l\,r-r^2-4\,r\,R\right)^2\left(l^2+2\,l\,r-r^2-4\,r\,R\right)^2}\,4\,r^2 R\left(3\,l^{10} r-13\,l^8 r^3-26\,l^6 r^5-2\,l^4 r^7+7\,l^2 r^9-r^{11}-l^{10} R-72\,l^8 r^2 R+426\,l^6 r^4 R-364\,l^4 r^6 R+143\,l^2 r^8 R-20\,r^{10} R+24\,l^8 r\,R^2+408\,l^6 r^3 R^2-1592\,l^4 r^5 R^2+936\,l^2 r^7 R^2-160\,r^9 R^2-144\,l^6 r^2 R^3-1184\,l^4 r^4 R^3+2416\,l^2 r^6 R^3-640\,r^8 R^3+256\,l^4 r^3 R^4+2048\,l^2 r^5 R^4-1280\,r^7 R^4-1024\,r^6 R^5\right)\}$$

$$\{X32,\ \text{ThirdPowerPoint},\ X44,\ X(6)\text{-LINE CONJUGATE OF } X(1),\ \left(16\,l^4 r^2 R\left(-4\,l^4 r^3+24\,l^2 r^5-4\,r^7+l^6 R-l^4 r^2 R+3\,l^2 r^4 R-43\,r^6 R-24\,l^4 r\,R^2+96\,l^2 r^3 R^2-168\,r^5 R^2+144\,l^2 r^2 R^3-304\,r^4 R^3-256\,r^3 R^4\right)\right)\Big/\left(\left(l^2-3\,r^2-12\,r\,R\right)^2\left(l^2-2\,l\,r-r^2-4\,r\,R\right)^2\left(l^2+2\,l\,r-r^2-4\,r\,R\right)^2\right)\}$$

$$\{X32,\ \text{ThirdPowerPoint},\ X45,\ X(9)\text{-BETH CONJUGATE OF } X(1),\ \left(16\,l^4 r^2 R\left(6\,l^6 r-46\,l^4 r^3+66\,l^2 r^5-10\,r^7+4\,l^6 R-103\,l^4 r^2 R+294\,l^2 r^4 R-127\,r^6 R-96\,l^4 r\,R^2+696\,l^2 r^3 R^2-600\,r^5 R^2+576\,l^2 r^2 R^3-1264\,r^4 R^3-1024\,r^3 R^4\right)\right)\Big/\left(\left(l^2-2\,l\,r-r^2-4\,r\,R\right)^2\left(l^2+2\,l\,r-r^2-4\,r\,R\right)^2\left(l^2+3\,r^2+12\,r\,R\right)^2\right)\}$$

$$\{X32,\ \text{ThirdPowerPoint},\ X46,\ X(4)\text{-CEVA CONJUGATE OF } X(1),\ -\left(\left(4\,r^2 R\left(l^8 r-9\,l^6 r^3+19\,l^4 r^5-3\,l^2 r^7-13\,l^6 r^2 R+70\,l^4 r^4 R-29\,l^2 r^6 R-5\,l^6 r\,R^2+71\,l^4 r^3 R^2-99\,l^2 r^5 R^2+r^7 R^2-l^6 R^3+62\,l^4 r^2 R^3-177\,l^2 r^4 R^3+16\,r^6 R^3+24\,l^4 r\,R^4-248\,l^2 r^3 R^4+96\,r^5 R^4-144\,l^2 r^2 R^5+256\,r^4 R^5+256\,r^3 R^6\right)\right)\Big/\left(\left(r-R\right)^2\left(-l^2-2\,l\,r+r^2+4\,r\,R\right)^2\left(-l^2+2\,l\,r+r^2+4\,r\,R\right)^2\right)\right)\}$$

$$\{X32,\ \text{ThirdPowerPoint},\ X47,\ X(110)\text{-BETH CONJUGATE OF } X(34),\ -\left(\left(4\,r^2 R^2\left(l^8 r^2+4\,l^6 r^4+6\,l^4 r^6+4\,l^2 r^8+r^{10}+2\,l^8 r\,R-36\,l^6 r^3 R+72\,l^4 r^5 R+4\,l^2 r^7 R+22\,r^9 R-44\,l^6 r^2 R^2+208\,l^4 r^4 R^2-252\,l^2 r^6 R^2+200\,r^8 R^2-20\,l^6 r\,R^3+476\,l^4 r^3 R^3-1292\,l^2 r^5 R^3+964\,r^7 R^3-4\,l^6 R^4+376\,l^4 r^2 R^4-2372\,l^2 r^4 R^4+2624\,r^6 R^4+96\,l^4 r\,R^5-2016\,l^2 r^3 R^5+3968\,r^5 R^5-576\,l^2 r^2 R^6+3072\,r^4 R^6+1024\,r^3 R^7\right)\right)\Big/\left(\left(l^2-2\,l\,r-r^2-4\,r\,R\right)^2\left(l^2+2\,l\,r-r^2-4\,r\,R\right)^2\left(l^2-3\,r^2-6\,r\,R-2\,R^2\right)^2\right)\right)\}$$

$$\{X32,\ \text{ThirdPowerPoint},\ X48,\ \text{CROSSPOINT OF } X(1)\ \text{AND } X(63),\ -\left(\left(4\,l^4 R^2\left(l^8+4\,l^6 r^2+6\,l^4 r^4+4\,l^2 r^6+r^8-28\,l^6 r\,R+28\,l^4 r^3 R-52\,l^2 r^5 R+20\,r^7 R-4\,l^6 R^2+200\,l^4 r^2 R^2-228\,l^2 r^4 R^2+144\,r^6 R^2+96\,l^4 r\,R^3-736\,l^2 r^3 R^3+512\,r^5 R^3-576\,l^2 r^2 R^4+1024\,r^4 R^4+1024\,r^3 R^5\right)\right)\Big/\left(\left(l^2-2\,l\,r-r^2-4\,r\,R\right)^2\left(l^2+2\,l\,r-r^2-4\,r\,R\right)^2\left(3\,l^2-r^2-6\,r\,R-8\,R^2\right)^2\right)\right)\}$$

$$\{X32, \text{ThirdPowerPoint}, X49, \text{CENTER OF SINE-TRIPLE-ANGLE CIRCLE},$$
$$-\Big(\Big(R^2\big(l^{12}+6l^{10}r^2+15l^8r^4+20l^6r^6+15l^4r^8+6l^2r^{10}+r^{12}-24l^{10}rR-72l^8r^3R-48l^6r^5R+48l^4r^7R+72l^2r^9R+24r^{11}R-4l^{10}R^2+84l^8r^2R^2+552l^6r^4R^2-456l^4r^6R^2+348l^2r^8R^2+244r^{10}R^2+80l^8rR^3+512l^6r^3R^3-2464l^4r^5R^3+1024l^2r^7R^3+1360r^9R^3-l^8R^4-96l^6r^2R^4-4350l^4r^4R^4+2464l^2r^6R^4+4479r^8R^4+16l^6rR^5-1808l^4r^3R^5+4368l^2r^5R^5+8688r^7R^5-96l^4r^2R^6+3712l^2r^4R^6+9120r^6R^6+256l^2r^3R^7+3840r^5R^7-256r^4R^8\big)\Big)\Big/\Big(\big(l^2-2lr-r^2-4rR\big)^2\big(l^2+2lr-r^2-4rR\big)^2\big(2l^2-2r^2-8rR-7R^2\big)^2\Big)\Big)\}$$

$$\{X32, \text{ThirdPowerPoint}, X50, X(74)\text{-CEVA CONJUGATE OF } X(184),$$
$$\Big(144l^4r^4R^6\big(l^4-14l^2r^2+r^4-8l^2rR+8r^3R+16r^2R^2\big)\Big)\Big/\Big(\big(l^2-2lr-r^2-4rR\big)^2\big(l^2+2lr-r^2-4rR\big)^2\big(l^4-6l^2r^2+r^4-8l^2rR+8r^3R-3l^2R^2+19r^2R^2+12rR^3\big)^2\Big)\}$$

$$\{X32, \text{ThirdPowerPoint}, X51, \text{CENTROID OF ORTHIC TRIANGLE},$$
$$-\frac{1}{36R^2\big(-l^2-2lr+r^2+4rR\big)^2\big(-l^2+2lr+r^2+4rR\big)^2}\Big(l^{12}+6l^{10}r^2-177l^8r^4+660l^6r^6-177l^4r^8+6l^2r^{10}+r^{12}-24l^{10}rR-72l^8r^3R+1488l^6r^5R-1488l^4r^7R+72l^2r^9R+24r^{11}R-4l^{10}R^2+100l^8r^2R^2+1336l^6r^4R^2-4312l^4r^6R^2+332l^2r^8R^2+244r^{10}R^2+80l^8rR^3+320l^6r^3R^3-5408l^4r^5R^3+832l^2r^7R^3+1360r^9R^3-208l^6r^2R^4-3360l^4r^4R^4+1584l^2r^6R^4+4480r^8R^4-896l^4r^3R^5+2432l^2r^5R^5+8704r^7R^5+1792l^2r^4R^6+9216r^6R^6+4096r^5R^7\Big)\}$$

$$\{X32, \text{ThirdPowerPoint}, X52, \text{ORTHOCENTER OF ORTHIC TRIANGLE},$$
$$\Big(\big(l^4-14l^2r^2+r^4-8l^2rR+8r^3R+16r^2R^2\big)\big(l^4-6l^2r^2+r^4-8l^2rR+8r^3R-2l^2R^2+18r^2R^2+8rR^3\big)^2\Big)\Big/\Big(4R^2\big(-l^2-2lr+r^2+4rR\big)^2\big(-l^2+2lr+r^2+4rR\big)^2\Big)\}$$

$$\{X32, \text{ThirdPowerPoint}, X53, \text{SYMMEDIAN POINT OF ORTHIC TRIANGLE},$$
$$-\Big(\Big(16l^4r^4\big(2l^{10}-26l^8r^2+100l^6r^4-100l^4r^6+26l^2r^8-2r^{10}-40l^8rR+352l^6r^3R-752l^4r^5R+352l^2r^7R-40r^9R-13l^8R^2+444l^6r^2R^2-2030l^4r^4R^2+1852l^2r^6R^2-333r^8R^2+208l^6rR^3-2480l^4r^3R^3+4784l^2r^5R^3-1488r^7R^3+24l^6R^4-1416l^4r^2R^4+6376l^2r^4R^4-3832r^6R^4-288l^4rR^5+4288l^2r^3R^5-5664r^5R^5-16l^4R^6+1376l^2r^2R^6-4496r^4R^6+128l^2rR^7-1664r^3R^7-256r^2R^8\big)\Big)\Big/\Big(\big(l^2-2lr-r^2-4rR\big)^2\big(l^2+2lr-r^2-4rR\big)^2\big(l^4-6l^2r^2+r^4-8l^2rR+8r^3R-4l^2R^2+20r^2R^2+16rR^3\big)^2\Big)\Big)\}$$

$$\{X32, \text{ThirdPowerPoint}, X54, \text{KosnitaPoint},$$
$$-\Big(\Big(R^2\big(8l^{10}r^2+32l^8r^4+48l^6r^6+32l^4r^8+8l^2r^{10}-128l^8r^3R-128l^6r^5R+128l^4r^7R+128l^2r^9R+l^{10}R^2-101l^8r^2R^2+794l^6r^4R^2-538l^4r^6R^2+869l^2r^8R^2-r^{10}R^2-20l^8rR^3+1232l^6r^3R^3-3384l^4r^5R^3+3280l^2r^7R^3-20r^9R^3-4l^8R^4+428l^6r^2R^4-5760l^4r^4R^4+7404l^2r^6R^4-164r^8R^4+64l^6rR^5-2848l^4r^3R^5+9632l^2r^5R^5-704r^7R^5-384l^4r^2R^6+6080l^2r^4R^6-1664r^6R^6+1024l^2r^3R^7-2048r^5R^7-1024r^4R^8\big)\Big)\Big/\Big(\big(l^2-2lr-r^2-4rR\big)^2\big(l^2+2lr-r^2-4rR\big)^2\big(2l^2-2r^2-8rR-5R^2\big)^2\Big)\Big)\}$$

$$\{X32, \text{ThirdPowerPoint}, X55, \text{INSIMILICENTER(CIRCUMCIRCLE, INCIRCLE)},$$
$$-\Big(\Big(r^2R^2\big(-3l^8+28l^6r^2-30l^4r^4+4l^2r^6+r^8+36l^6rR-100l^4r^3R+12l^2r^5R+20r^7R-4l^6R^2-40l^4r^2R^2-132l^2r^4R^2+160r^6R^2+96l^4rR^3-608l^2r^3R^3+640r^5R^3-576l^2r^2R^4+1280r^4R^4+1024r^3R^5\big)\Big)\Big/\Big((r+R)^2\big(-l^2-2lr+r^2+4rR\big)^2\big(-l^2+2lr+r^2+4rR\big)^2\Big)\Big)\}$$

$$\{X32, \text{ThirdPowerPoint}, X56, \text{EXSIMILICENTER(CIRCUMCIRCLE, INCIRCLE)},$$
$$\Big(r^2R^2\big(-l^8-4l^6r^2+30l^4r^4-28l^2r^6+3r^8+28l^6rR+36l^4r^3R-204l^2r^5R+44r^7R+4l^6R^2-216l^4r^2R^2-252l^2r^4R^2+224r^6R^2-96l^4rR^3+608l^2r^3R^3+384r^5R^3+576l^2r^2R^4-256r^4R^4-1024r^3R^5\big)\Big)\Big/\Big((r-R)^2\big(-l^2-2lr+r^2+4rR\big)^2\big(-l^2+2lr+r^2+4rR\big)^2\Big)\}$$

$$\left\{X32,\ \text{ThirdPowerPoint},\ X57,\ \text{ISOGONAL CONJUGATE OF } X(9),\right.$$
$$-\frac{1}{(r-2R)^2\left(-l^2-2lr+r^2+4rR\right)^2\left(-l^2+2lr+r^2+4rR\right)^2}$$
$$4r^2R\left(l^8r-9l^6r^3+19l^4r^5-3l^2r^7+l^8R-25l^6r^2R+108l^4r^4R-41l^2r^6R+r^8R-\right.$$
$$32l^6rR^2+236l^4r^3R^2-240l^2r^5R^2+20r^7R^2-4l^6R^3+312l^4r^2R^3-756l^2r^4R^3+$$
$$\left.\left.160r^6R^3+96l^4rR^4-1184l^2r^3R^4+640r^5R^4-576l^2r^2R^5+1280r^4R^5+1024r^3R^6\right)\right\}$$

$$\left\{X32,\ \text{ThirdPowerPoint},\ X58,\ \text{ISOGONAL CONJUGATE OF } X(10),\right.$$
$$\left.\frac{4r^4R^2\left(l^2+r^2+4rR\right)^2\left(l^4-14l^2r^2+r^4-8l^2rR+8r^3R+16r^2R^2\right)}{\left(l^2-3r^2-4rR\right)^2\left(l^2-2lr-r^2-4rR\right)^2\left(l^2+2lr-r^2-4rR\right)^2}\right\}$$

$$\left\{X32,\ \text{ThirdPowerPoint},\ X59,\ \text{ISOGONAL CONJUGATE OF } X(11),\right.$$
$$\left(r^2R^2\left(-4l^{10}r-16l^8r^3-24l^6r^5-16l^4r^7-4l^2r^9-5l^{10}R+117l^8r^2R+158l^6r^4R-54l^4r^6R-\right.\right.$$
$$89l^2r^8R+r^{10}R+188l^8rR^2-1240l^6r^3R^2+888l^4r^5R^2-856l^2r^7R^2+28r^9R^2+32l^8R^3-$$
$$2340l^6r^2R^3+6056l^4r^4R^3-4612l^2r^6R^3+336r^8R^3-928l^6rR^4+12576l^4r^3R^4-$$
$$14912l^2r^5R^4+2240r^7R^4-64l^6R^5+8064l^4r^2R^5-28288l^2r^4R^5+8960r^6R^5+$$
$$\left.\left.1536l^4rR^6-27648l^2r^3R^6+21504r^5R^6-9216l^2r^2R^7+28672r^4R^7+16384r^3R^8\right)\right)\Big/$$
$$\left.\left((2r-R)\left(-l^2-2lr+r^2+4rR\right)^2\left(-l^2+2lr+r^2+4rR\right)^2\left(-l^2+r^2+5rR+4R^2\right)^2\right)\right\}$$

$$\left\{X32,\ \text{ThirdPowerPoint},\ X60,\ \text{ISOGONAL CONJUGATE OF } X(12),\right.$$
$$-\left(\left(r^2R^2\left(8l^{10}r^2+32l^8r^4+48l^6r^6+32l^4r^8+8l^2r^{10}-6l^{10}rR-6l^8r^3R+84l^6r^5R+164l^4r^7R+\right.\right.\right.$$
$$82l^2r^9R+2r^{11}R-l^{10}R^2+9l^8r^2R^2+118l^6r^4R^2+114l^4r^6R^2+299l^2r^8R^2+37r^{10}R^2+$$
$$20l^8rR^3+80l^6r^3R^3-200l^4r^5R^3+528l^2r^7R^3+276r^9R^3-52l^6r^2R^4-520l^4r^4R^4+652l^2r^6$$
$$\left.\left.R^4+1056r^8R^4-224l^4r^3R^5+608l^2r^5R^5+2176r^7R^5+448l^2r^4R^6+2304r^6R^6+1024r^5R^7\right)\right)\Big/$$
$$\left.\left.\left((l^2-2lr-r^2-4rR)^2\left(l^2+2lr-r^2-4rR\right)^2\left(2l^2r-2r^3+l^2R-7r^2R-7rR^2\right)^2\right)\right)\right\}$$

$$\left\{X32,\ \text{ThirdPowerPoint},\ X61,\ \text{ISOGONAL CONJUGATE OF } X(17),\right.$$
$$\left.\frac{12l^2r^2R^2\left(l^2-2\sqrt{3}\,lr-r^2-4rR\right)\left(l^2+2\sqrt{3}\,lr-r^2-4rR\right)^3}{\left(3l^2+2\sqrt{3}\,lr-3r^2-12rR\right)^2\left(l^2-2lr-r^2-4rR\right)^2\left(l^2+2lr-r^2-4rR\right)^2}\right\}$$

$$\left\{X32,\ \text{ThirdPowerPoint},\ X62,\ \text{ISOGONAL CONJUGATE OF } X(18),\right.$$
$$\left.\frac{12l^2r^2R^2\left(l^2-2\sqrt{3}\,lr-r^2-4rR\right)^3\left(l^2+2\sqrt{3}\,lr-r^2-4rR\right)}{\left(3l^2-2\sqrt{3}\,lr-3r^2-12rR\right)^2\left(l^2-2lr-r^2-4rR\right)^2\left(l^2+2lr-r^2-4rR\right)^2}\right\}$$

$$\left\{X32,\ \text{ThirdPowerPoint},\ X63,\ \text{ISOGONAL CONJUGATE OF } X(19),\right.$$
$$-\frac{1}{(r+R)^2\left(-l^2-2lr+r^2+4rR\right)^2\left(-l^2+2lr+r^2+4rR\right)^2}$$
$$R\left(-2l^{10}r+20l^8r^3-56l^6r^5+44l^4r^7-6l^2r^9-l^{10}R+49l^8r^2R-\right.$$
$$282l^6r^4R+406l^4r^6R-93l^2r^8R+r^{10}R+28l^8rR^2-480l^6r^3R^2+1376l^4r^5R^2-$$
$$592l^2r^7R^2+20r^9R^2-244l^6r^2R^3+1912l^4r^4R^3-1908l^2r^6R^3+160r^8R^3+$$
$$\left.\left.928l^4r^3R^4-2976l^2r^5R^4+640r^7R^4-1600l^2r^4R^5+1280r^6R^5+1024r^5R^6\right)\right\}$$

$$\left\{X32,\ \text{ThirdPowerPoint},\ X64,\ \text{ISOGONAL CONJUGATE OF } X(20),\right.$$
$$\left(4R^2\left(3l^{12}-38l^{10}r^2+145l^8r^4-204l^6r^6+145l^4r^8-38l^2r^{10}+3r^{12}-72l^{10}rR+\right.\right.$$
$$680l^8r^3R-1840l^6r^5R+1840l^4r^7R-680l^2r^9R+72r^{11}R-28l^{10}R^2+1052l^8r^2R^2-$$
$$5912l^6r^4R^2+9592l^4r^6R^2-5132l^2r^8R^2+748r^{10}R^2+560l^8rR^3-8384l^6r^3R^3+$$
$$25632l^4r^5R^3-21184l^2r^7R^3+4400r^9R^3+64l^8R^4-5168l^6r^2R^4+36000l^4r^4R^4-$$
$$51504l^2r^6R^4+16064r^8R^4-1024l^6rR^5+24448l^4r^3R^5-73088l^2r^5R^5+37376r^7R^5+$$
$$\left.\left.6144l^4r^2R^6-55040l^2r^4R^6+54272r^6R^6-16384l^2r^3R^7+45056r^5R^7+16384r^4R^8\right)\right)\Big/$$
$$\left.\left((1-r-2R)^2(1+r+2R)^2\left(l^2-2lr-r^2-4rR\right)^2\left(l^2+2lr-r^2-4rR\right)^2\right)\right\}$$

$$\left\{X32,\ \text{ThirdPowerPoint},\ X65,\ \text{ORTHOCENTER OF THE INTOUCH TRIANGLE},\right.$$

$$-\frac{1}{R\left(-l^2-2\,l\,r+r^2+4\,r\,R\right)^2\left(-l^2+2\,l\,r+r^2+4\,r\,R\right)^2}$$

$$r^2\left(2\,l^8\,r-24\,l^6\,r^3+76\,l^4\,r^5-24\,l^2\,r^7+2\,r^9+l^8\,R-56\,l^6\,r^2\,R+338\,l^4\,r^4\,R-272\,l^2\,r^6\,R+37\,r^8\,R-\right.$$
$$36\,l^6\,r\,R^2+556\,l^4\,r^3\,R^2-1116\,l^2\,r^5\,R^2+276\,r^7\,R^2-4\,l^6\,R^3+408\,l^4\,r^2\,R^3-2052\,l^2\,r^4\,R^3+$$
$$\left.\left.1056\,r^6\,R^3+96\,l^4\,r\,R^4-1760\,l^2\,r^3\,R^4+2176\,r^5\,R^4-576\,l^2\,r^2\,R^5+2304\,r^4\,R^5+1024\,r^3\,R^6\right)\right\}$$

$$\left\{X32,\ \text{ThirdPowerPoint},\ X66,\ \text{ISOGONAL CONJUGATE OF X(22)},\right.$$

$$\left(12\,l^{16}\,r^2-148\,l^{14}\,r^4+636\,l^{12}\,r^6-1252\,l^{10}\,r^8+1252\,l^8\,r^{10}-636\,l^6\,r^{12}+148\,l^4\,r^{14}-12\,l^2\,r^{16}-\right.$$
$$336\,l^{14}\,r^3\,R+3296\,l^{12}\,r^5\,R-10\,928\,l^{10}\,r^7\,R+15\,936\,l^8\,r^9\,R-10\,928\,l^6\,r^{11}\,R+3296\,l^4\,r^{13}\,R-$$
$$336\,l^2\,r^{15}\,R-l^{16}\,R^2-104\,l^{14}\,r^2\,R^2+5220\,l^{12}\,r^4\,R^2-34\,648\,l^{10}\,r^6\,R^2+80\,442\,l^8\,r^8\,R^2-$$
$$78\,360\,l^6\,r^{10}\,R^2+31\,588\,l^4\,r^{12}\,R^2-4136\,l^2\,r^{14}\,R^2-r^{16}\,R^2+32\,l^{14}\,r\,R^3+2464\,l^{12}\,r^3\,R^3-$$
$$48\,352\,l^{10}\,r^5\,R^3+203\,936\,l^8\,r^7\,R^3-302\,752\,l^6\,r^9\,R^3+169\,952\,l^4\,r^{11}\,R^3-29\,344\,l^2\,r^{13}\,R^3-32\,r^{15}\,R^3+$$
$$4\,l^{14}\,R^4-108\,l^{12}\,r^2\,R^4-27\,484\,l^{10}\,r^4\,R^4+269\,716\,l^8\,r^6\,R^4-677\,588\,l^6\,r^8\,R^4+560\,796\,l^4\,r^{10}\,R^4-$$
$$132\,052\,l^2\,r^{12}\,R^4-452\,r^{14}\,R^4-112\,l^{12}\,r\,R^5-3104\,l^{10}\,r^3\,R^5+171\,632\,l^8\,r^5\,R^5-874\,432\,l^6\,r^7\,R^5+$$
$$1\,161\,328\,l^4\,r^9\,R^5-390\,176\,l^2\,r^{11}\,R^5-3696\,r^{13}\,R^5+912\,l^{10}\,r^2\,R^6+37\,376\,l^8\,r^4\,R^6-601\,504\,l^6\,r^6\,R^6+$$
$$1\,476\,032\,l^4\,r^8\,R^6-755\,056\,l^2\,r^{10}\,R^6-19\,264\,r^{12}\,R^6-2048\,l^8\,r^3\,R^7-174\,336\,l^6\,r^5\,R^7+1\,063\,680\,l^4\,r^7\,R^7-$$
$$919\,296\,l^2\,r^9\,R^7-66\,304\,r^{11}\,R^7-5632\,l^6\,r^4\,R^8+354\,304\,l^4\,r^6\,R^8-634\,368\,l^2\,r^8\,R^8-150\,528\,r^{10}\,R^8+$$
$$\left.24\,576\,l^4\,r^5\,R^9-184\,320\,l^2\,r^7\,R^9-217\,088\,r^9\,R^9+4096\,l^2\,r^6\,R^{10}-180\,224\,r^8\,R^{10}-65\,536\,r^7\,R^{11}\right)\Big/$$
$$\left.\left((1-r-2\,R)^2\,(1+r+2\,R)^2\left(l^2-r^2-4\,r\,R\right)^2\left(l^2-2\,l\,r-r^2-4\,r\,R\right)^2\left(l^2+2\,l\,r-r^2-4\,r\,R\right)^2\right)\right\}$$

$$\left\{X32,\ \text{ThirdPowerPoint},\ X67,\ \text{ISOGONAL CONJUGATE OF X(23)},\right.$$

$$\left(\left(l^6-7\,l^4\,r^2+7\,l^2\,r^4-r^6-12\,l^4\,r\,R+40\,l^2\,r^3\,R-12\,r^5\,R-4\,l^4\,R^2+68\,l^2\,r^2\,R^2-52\,r^4\,R^2+32\,l^2\,r\,R^3-\right.\right.$$
$$96\,r^3\,R^3-64\,r^2\,R^4\right)\left(l^{10}+19\,l^8\,r^2-110\,l^6\,r^4+110\,l^4\,r^6-19\,l^2\,r^8-r^{10}-20\,l^8\,r\,R-\right.$$
$$208\,l^6\,r^3\,R+648\,l^4\,r^5\,R-208\,l^2\,r^7\,R-20\,r^9\,R+52\,l^6\,r^2\,R^2+1032\,l^4\,r^4\,R^2-780\,l^2\,r^6\,R^2-$$
$$\left.\left.160\,r^8\,R^2+224\,l^4\,r^3\,R^3-1120\,l^2\,r^5\,R^3-640\,r^7\,R^3-448\,l^2\,r^4\,R^4-1280\,r^6\,R^4-1024\,r^5\,R^5\right)\right)\Big/$$
$$\left.\left(\left(l^2-r^2-4\,r\,R\right)^2\left(l^2-2\,l\,r-r^2-4\,r\,R\right)^2\left(l^2+2\,l\,r-r^2-4\,r\,R\right)^2\left(2\,l^2-2\,r^2-8\,r\,R-9\,R^2\right)\right)\right\}$$

$$\left\{X32,\ \text{ThirdPowerPoint},\ X68,\ \text{PRASOLOV POINT},\right.$$

$$\left(12\,l^{12}\,r^2-124\,l^{10}\,r^4+376\,l^8\,r^6-376\,l^6\,r^8+124\,l^4\,r^{10}-12\,l^2\,r^{12}-240\,l^{10}\,r^3\,R+1728\,l^8\,r^5\,R-\right.$$
$$3232\,l^6\,r^7\,R+1728\,l^4\,r^9\,R-240\,l^2\,r^{11}\,R+l^{12}\,R^2-126\,l^{10}\,r^2\,R^2+2927\,l^8\,r^4\,R^2-10\,916\,l^6\,r^6\,R^2+$$
$$9839\,l^4\,r^8\,R^2-2046\,l^2\,r^{10}\,R^2+r^{12}\,R^2-24\,l^{10}\,r\,R^3+2040\,l^8\,r^3\,R^3-17\,776\,l^6\,r^5\,R^3+29\,552\,l^4\,r^7\,R^3-$$
$$9720\,l^2\,r^9\,R^3+24\,r^{11}\,R^3-4\,l^{10}\,R^4+596\,l^8\,r^2\,R^4-14\,552\,l^6\,r^4\,R^4+50\,104\,l^4\,r^6\,R^4-28\,196\,l^2\,r^8\,R^4+$$
$$244\,r^{10}\,R^4+80\,l^8\,r\,R^5-5632\,l^6\,r^3\,R^5+47\,200\,l^4\,r^5\,R^5-51\,200\,l^2\,r^7\,R^5+1360\,r^9\,R^5+4\,l^8\,R^6-$$
$$944\,l^6\,r^2\,R^6+23\,064\,l^4\,r^4\,R^6-56\,752\,l^2\,r^6\,R^6+4484\,r^8\,R^6-64\,l^6\,r\,R^7+5056\,l^4\,r^3\,R^7-35\,264\,l^2\,r^5\,R^7+$$
$$\left.8768\,r^7\,R^7+384\,l^4\,r^2\,R^8-10\,496\,l^2\,r^4\,R^8+9600\,r^6\,R^8-1024\,l^2\,r^3\,R^9+5120\,r^5\,R^9+1024\,r^4\,R^{10}\right)\Big/$$
$$\left.\left((1-r-2\,R)^2\,(1+r+2\,R)^2\left(l^2-2\,l\,r-r^2-4\,r\,R\right)^2\left(l^2+2\,l\,r-r^2-4\,r\,R\right)^2\right)\right\}$$

$$\left\{X32,\ \text{ThirdPowerPoint},\ X69,\ \text{SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},\right.$$

$$\frac{1}{\left(l^2-r^2-4\,r\,R\right)^2\left(l^2-2\,l\,r-r^2-4\,r\,R\right)^2\left(l^2+2\,l\,r-r^2-4\,r\,R\right)^2}$$

$$\left(l^{14}+l^{12}\,r^2-99\,l^{10}\,r^4+413\,l^8\,r^6-413\,l^6\,r^8+99\,l^4\,r^{10}-l^2\,r^{12}-r^{14}-28\,l^{12}\,r\,R+8\,l^{10}\,r^3\,R+\right.$$
$$1180\,l^8\,r^5\,R-2832\,l^6\,r^7\,R+1180\,l^4\,r^9\,R+8\,l^2\,r^{11}\,R-28\,r^{13}\,R+228\,l^{10}\,r^2\,R^2+624\,l^8\,r^4\,R^2-$$
$$6920\,l^6\,r^6\,R^2+5344\,l^4\,r^8\,R^2+292\,l^2\,r^{10}\,R^2-336\,r^{12}\,R^2-512\,l^8\,r^3\,R^3-6080\,l^6\,r^5\,R^3+$$
$$11\,840\,l^4\,r^7\,R^3+2112\,l^2\,r^9\,R^3-2240\,r^{11}\,R^3-1408\,l^6\,r^4\,R^4+13\,568\,l^4\,r^6\,R^4+6272\,l^2\,r^8\,R^4-$$
$$\left.\left.8960\,r^{10}\,R^4+6144\,l^4\,r^5\,R^5+7168\,l^2\,r^7\,R^5-21\,504\,r^9\,R^5+1024\,l^2\,r^6\,R^6-28\,672\,r^8\,R^6-16\,384\,r^7\,R^7\right)\right\}$$

$$\{X32,\ ThirdPowerPoint,\ X70,\ ISOGONAL\ CONJUGATE\ OF\ X(26),$$
$$\Big(12\,l^{16}r^2-148\,l^{14}r^4+636\,l^{12}r^6-1252\,l^{10}r^8+1252\,l^8r^{10}-636\,l^6r^{12}+148\,l^4r^{14}-12\,l^2r^{16}-$$
$$336\,l^{14}r^3R+3296\,l^{12}r^5R-10928\,l^{10}r^7R+15936\,l^8r^9R-10928\,l^6r^{11}R+3296\,l^4r^{13}R-336\,l^2r^{15}R-$$
$$164\,l^{14}r^2R^2+5800\,l^{12}r^4R^2-36636\,l^{10}r^6R^2+83376\,l^8r^8R^2-80348\,l^6r^{10}R^2+32168\,l^4r^{12}R^2-$$
$$4196\,l^2r^{14}R^2+3936\,l^{12}r^3R^3-59104\,l^{10}r^5R^3+230592\,l^8r^7R^3-329408\,l^6r^9R^3+180704\,l^4r^{11}R^3-$$
$$30816\,l^2r^{13}R^3-l^{14}R^4+851\,l^{12}r^2R^4-47105\,l^{10}r^4R^4+361323\,l^8r^6R^4-822507\,l^6r^8R^4+$$
$$644929\,l^4r^{10}R^4-147731\,l^2r^{12}R^4+r^{14}R^4+28\,l^{12}rR^5-17048\,l^{10}r^3R^5+319908\,l^8r^5R^5-$$
$$1282896\,l^6r^7R^5+1522084\,l^4r^9R^5-485016\,l^2r^{11}R^5+28\,r^{13}R^5+6\,l^{12}R^6-2348\,l^{10}r^2R^6+$$
$$151498\,l^8r^4R^6-1234280\,l^6r^6R^6+2395738\,l^4r^8R^6-1112556\,l^2r^{10}R^6+342\,r^{12}R^6-144\,l^{10}rR^7+$$
$$34576\,l^8r^3R^7-699680\,l^6r^5R^7+2476192\,l^4r^7R^7-1785680\,l^2r^9R^7+2384\,r^{11}R^7-9\,l^{10}R^8+$$
$$3501\,l^8r^2R^8-215786\,l^6r^4R^8+1615146\,l^4r^6R^8-1976461\,l^2r^8R^8+10409\,r^{10}R^8+180\,l^8rR^9-$$
$$32592\,l^6r^3R^9+620792\,l^4r^5R^9-1461072\,l^2r^7R^9+29364\,r^9R^9+4\,l^8R^{10}-2188\,l^6r^2R^{10}+$$
$$126912\,l^4r^4R^{10}-682444\,l^2r^6R^{10}+53156\,r^8R^{10}-64\,l^6rR^{11}+11808\,l^4r^3R^{11}-183456\,l^2r^5R^{11}+$$
$$59072\,r^7R^{11}+384\,l^4r^2R^{12}-24000\,l^2r^4R^{12}+36480\,r^6R^{12}-1024\,l^2r^3R^{13}+10240\,r^5R^{13}+1024\,r^4R^{14}\Big)\Big/$$
$$\Big(\big(l^2-2\,l\,r-r^2-4\,r\,R\big)^2\big(l^2+2\,l\,r-r^2-4\,r\,R\big)^2$$
$$\big(l^4-2\,l^2r^2+r^4-8\,l^2rR+8\,r^3R-6\,l^2R^2+22\,r^2R^2+24\,rR^3+7\,R^4\big)^2\Big)\Big\}$$

$$\{X32,\ ThirdPowerPoint,\ X71,\ ISOGONAL\ CONJUGATE\ OF\ X(27),$$
$$\Big(4\,l^4R^2\big(3\,l^8-36\,l^6r^2+114\,l^4r^4-100\,l^2r^6+3\,r^8-52\,l^6rR+$$
$$372\,l^4r^3R-572\,l^2r^5R+28\,r^7R+4\,l^6R^2+248\,l^4r^2R^2-924\,l^2r^4R^2+48\,r^6R^2-$$
$$96\,l^4rR^3-32\,l^2r^3R^3-256\,r^5R^3+576\,l^2r^2R^4-1024\,r^4R^4-1024\,r^3R^5\big)\Big)\Big/$$
$$\Big(\big(l^2-2\,l\,r-r^2-4\,r\,R\big)^2\big(l^2+2\,l\,r-r^2-4\,r\,R\big)^2\big(l^2+r^2+6\,rR+8\,R^2\big)^2\Big)\Big\}$$

$$\{X32,\ ThirdPowerPoint,\ X72,\ ISOGONAL\ CONJUGATE\ OF\ X(28),$$
$$-\frac{1}{R\big(-l^2-2\,l\,r+r^2+4\,r\,R\big)^2\big(-l^2+2\,l\,r+r^2+4\,r\,R\big)^2}$$
$$\Big(-l^{10}r+13\,l^8r^3-50\,l^6r^5+50\,l^4r^7-13\,l^2r^9+r^{11}-l^{10}R+28\,l^8r^2R-194\,l^6r^4R+$$
$$408\,l^4r^6R-181\,l^2r^8R+20\,r^{10}R+28\,l^8rR^2-352\,l^6r^3R^2+1232\,l^4r^5R^2-$$
$$976\,l^2r^7R^2+164\,r^9R^2-244\,l^6r^2R^3+1688\,l^4r^4R^3-2548\,l^2r^6R^3+704\,r^8R^3+$$
$$928\,l^4r^3R^4-3232\,l^2r^5R^4+1664\,r^7R^4-1600\,l^2r^4R^5+2048\,r^6R^5+1024\,r^5R^6\Big)\Big\}$$

$$\{X32,\ ThirdPowerPoint,\ X73,\ CROSSPOINT\ OF\ INCENTER\ AND\ CIRCUMCENTER,$$
$$\Big(4\,r^2R^2\big(3\,l^8r^2-100\,l^6r^4+114\,l^4r^6-36\,l^2r^8+3\,r^{10}-4\,l^8rR-100\,l^6r^3R+700\,l^4r^5R-$$
$$428\,l^2r^7R+56\,r^9R-4\,l^8R^2+100\,l^6r^2R^2+944\,l^4r^4R^2-1756\,l^2r^6R^2+412\,r^8R^2+$$
$$128\,l^6rR^3-560\,l^4r^3R^3-2496\,l^2r^5R^3+1456\,r^7R^3+16\,l^6R^4-1248\,l^4r^2R^4+976\,l^2r^4R^4+$$
$$2176\,r^6R^4-384\,l^4rR^5+4736\,l^2r^3R^5-512\,r^5R^5+2304\,l^2r^2R^6-5120\,r^4R^6-4096\,r^3R^7\big)\Big)\Big/$$
$$\Big(\big(l^2-2\,l\,r-r^2-4\,r\,R\big)^2\big(l^2+2\,l\,r-r^2-4\,r\,R\big)^2\big(l^2+r^2-2\,rR-4\,R^2\big)^2\Big)\Big\}$$

$$\{X32,\ ThirdPowerPoint,\ X74,\ ISOGONAL\ CONJUGATE\ OF\ EULER\ INFINITY\ POINT,$$
$$\Big(R^2\big(9\,l^{10}-117\,l^8r^2+386\,l^6r^4-386\,l^4r^6+117\,l^2r^8-9\,r^{10}-180\,l^8rR+1584\,l^6r^3R-$$
$$3128\,l^4r^5R+1584\,l^2r^7R-180\,r^9R-36\,l^8R^2+1836\,l^6r^2R^2-8640\,l^4r^4R^2+$$
$$8172\,l^2r^6R^2-1476\,r^8R^2+576\,l^6rR^3-9504\,l^4r^3R^3+19872\,l^2r^5R^3-6336\,r^7R^3-$$
$$3456\,l^4r^2R^4+22464\,l^2r^4R^4-14976\,r^6R^4+9216\,l^2r^3R^5-18432\,r^5R^5-9216\,r^4R^6\big)\Big)\Big/$$
$$\Big(\big(l^2-2\,l\,r-r^2-4\,r\,R\big)^2\big(l^2+2\,l\,r-r^2-4\,r\,R\big)^2\big(2\,l^2-2\,r^2-8\,rR-9\,R^2\big)\Big)\Big\}$$

$$\{X32,\ ThirdPowerPoint,\ X75,\ ISOTOMIC\ CONJUGATE\ OF\ INCENTER,$$
$$\frac{1}{\big(l^2-2\,l\,r-r^2-4\,r\,R\big)^2\big(l^2+2\,l\,r-r^2-4\,r\,R\big)^2\big(l^2+r^2+4\,r\,R\big)^2}$$
$$\Big(l^{14}-3\,l^{12}r^2-15\,l^{10}r^4-11\,l^8r^6+11\,l^6r^8+15\,l^4r^{10}+3\,l^2r^{12}-r^{14}-28\,l^{12}rR+168\,l^{10}r^3R-$$
$$548\,l^8r^5R+1008\,l^6r^7R-164\,l^4r^9R+104\,l^2r^{11}R-28\,r^{13}R+260\,l^{10}r^2R^2-1632\,l^8r^4R^2+$$
$$4792\,l^6r^6R^2-2992\,l^4r^8R^2+1252\,l^2r^{10}R^2-336\,r^{12}R^2-1344\,l^8r^3R^3+8000\,l^6r^5R^3-12928\,l^4r^7R^3+$$
$$7232\,l^2r^9R^3-2240\,r^{11}R^3+4736\,l^6r^4R^4-20992\,l^4r^6R^4+21632\,l^2r^8R^4-8960\,r^{10}R^4-$$
$$11264\,l^4r^5R^5+31744\,l^2r^7R^5-21504\,r^9R^5+17408\,l^2r^6R^6-28672\,r^8R^6-16384\,r^7R^7\Big)\Big\}$$

$$\{X32,\ \text{ThirdPowerPoint},\ X76,\ \text{3rd BROCARD POINT},$$
$$\Big(l^{18}-l^{16}r^2-20\,l^{14}r^4-44\,l^{12}r^6-26\,l^{10}r^8+26\,l^8r^{10}+44\,l^6r^{12}+20\,l^4r^{14}+l^2r^{16}-r^{18}-36\,l^{16}r\,R+$$
$$64\,l^{14}r^3R+336\,l^{12}r^5R+192\,l^{10}r^7R-88\,l^8r^9R+192\,l^6r^{11}R+336\,l^4r^{13}R+64\,l^2r^{15}R-36\,r^{17}R+$$
$$468\,l^{14}r^2R^2-392\,l^{12}r^4R^2-4756\,l^{10}r^6R^2+8016\,l^8r^8R^2-3988\,l^6r^{10}R^2+2296\,l^4r^{12}R^2+$$
$$1236\,l^2r^{14}R^2-576\,r^{16}R^2-2784\,l^{12}r^3R^3-3488\,l^{10}r^5R^3+36160\,l^8r^7R^3-36928\,l^6r^9R^3+$$
$$8864\,l^4r^{11}R^3+11744\,l^2r^{13}R^3-5376\,r^{15}R^3+6336\,l^{10}r^4R^4+43264\,l^8r^6R^4-115584\,l^6r^8R^4+$$
$$25344\,l^4r^{10}R^4+63680\,l^2r^{12}R^4-32256\,r^{14}R^4+9216\,l^8r^5R^5-148480\,l^6r^7R^5+62464\,l^4r^9R^5+$$
$$205824\,l^2r^{11}R^5-129024\,r^{13}R^5-70656\,l^6r^6R^6+104448\,l^4r^8R^6+388096\,l^2r^{10}R^6-344064\,r^{12}R^6+$$
$$73728\,l^4r^7R^7+385024\,l^2r^9R^7-589824\,r^{11}R^7+147456\,l^2r^8R^8-589824\,r^{10}R^8-262144\,r^9R^9\Big)\Big/$$
$$\Big(\big(l^2-2\,l\,r-r^2-4\,r\,R\big)^2\big(l^2+2\,l\,r-r^2-4\,r\,R\big)^2\big(l^4+2\,l^2r^2+r^4-8\,l^2r\,R+8\,r^3R+16\,r^2R^2\big)^2\Big)\}$$

$$\{X32,\ \text{ThirdPowerPoint},\ X77,\ \text{ISOGONAL CONJUGATE OF X(33)},$$
$$\frac{1}{\big(l^2-2\,l\,r-r^2-4\,r\,R\big)^2\big(l^2+2\,l\,r-r^2-4\,r\,R\big)^2\big(l^2-r\,R-4\,R^2\big)^2}$$
$$r^2R\Big(6\,l^{10}r-44\,l^8r^3+56\,l^6r^5-20\,l^4r^7+2\,l^2r^9+5\,l^{10}R-161\,l^8r^2R+450\,l^6r^4R-$$
$$294\,l^4r^6R+49\,l^2r^8R-r^{10}R-172\,l^8r\,R^2+1560\,l^6r^3R^2-1864\,l^4r^5R^2+536\,l^2r^7R^2-$$
$$28\,r^9R^2-32\,l^8R^3+2084\,l^6r^2R^3-6376\,l^4r^4R^3+3332\,l^2r^6R^3-336\,r^8R^3+928\,l^6r\,R^4-$$
$$11296\,l^4r^3R^4+12352\,l^2r^5R^4-2240\,r^7R^4+64\,l^6R^5-8064\,l^4r^2R^5+26240\,l^2r^4R^5-8960\,r^6R^5-$$
$$1536\,l^4r\,R^6+27648\,l^2r^3R^6-21504\,r^5R^6+9216\,l^2r^2R^7-28672\,r^4R^7-16384\,r^3R^8\Big)\}$$

$$\{X32,\ \text{ThirdPowerPoint},\ X78,\ \text{ISOGONAL CONJUGATE OF X(34)},$$
$$-\frac{1}{(r-R)^2\big(-l^2-2\,l\,r+r^2+4\,r\,R\big)^2\big(-l^2+2\,l\,r+r^2+4\,r\,R\big)^2}$$
$$R\Big(6\,l^8r^3-44\,l^6r^5+56\,l^4r^7-20\,l^2r^9+2\,r^{11}-l^{10}R+5\,l^8r^2R-74\,l^6r^4R+$$
$$350\,l^4r^6R-237\,l^2r^8R+37\,r^{10}R+28\,l^8r\,R^2-192\,l^6r^3R^2+800\,l^4r^5R^2-$$
$$1072\,l^2r^7R^2+276\,r^9R^2-244\,l^6r^2R^3+1272\,l^4r^4R^3-2420\,l^2r^6R^3+1056\,r^8R^3+$$
$$928\,l^4r^3R^4-2976\,l^2r^5R^4+2176\,r^7R^4-1600\,l^2r^4R^5+2304\,r^6R^5+1024\,r^5R^6\Big)\}$$

$$\{X32,\ \text{ThirdPowerPoint},\ X79,\ \text{ISOGONAL CONJUGATE OF X(35)},$$
$$-\frac{1}{(2\,r+3\,R)^2\big(-l^2-2\,l\,r+r^2+4\,r\,R\big)^2\big(-l^2+2\,l\,r+r^2+4\,r\,R\big)^2}$$
$$4\,r^2\Big(2\,l^{10}-32\,l^8r^2+132\,l^6r^4-80\,l^4r^6+10\,l^2r^8-47\,l^8r\,R+428\,l^6r^3R-666\,l^4r^5R+$$
$$140\,l^2r^7R+r^9R-6\,l^8R^2+440\,l^6r^2R^2-1800\,l^4r^4R^2+720\,l^2r^6R^2+22\,r^8R^2+93\,l^6r\,R^3-$$
$$1637\,l^4r^3R^3+1543\,l^2r^5R^3+201\,r^7R^3-9\,l^6R^4-162\,l^4r^2R^4+743\,l^2r^4R^4+976\,r^6R^4+$$
$$216\,l^4r\,R^5-1560\,l^2r^3R^5+2656\,r^5R^5-1296\,l^2r^2R^6+3840\,r^4R^6+2304\,r^3R^7\Big)\}$$

$$\{X32,\ \text{ThirdPowerPoint},\ X80,\ \text{REFLECTION OF INCENTER IN FEUERBACH POINT},$$
$$\frac{1}{(2\,r-R)\big(-l^2-2\,l\,r+r^2+4\,r\,R\big)^2\big(-l^2+2\,l\,r+r^2+4\,r\,R\big)^2}$$
$$4\,r^2\Big(5\,l^8r-40\,l^6r^3+66\,l^4r^5-16\,l^2r^7+r^9-70\,l^6r^2R+310\,l^4r^4R-178\,l^2r^6R+18\,r^8R-$$
$$21\,l^6r\,R^2+463\,l^4r^3R^2-699\,l^2r^5R^2+129\,r^7R^2-l^6R^3+222\,l^4r^2R^3-1153\,l^2r^4R^3+$$
$$464\,r^6R^3+24\,l^4r\,R^4-760\,l^2r^3R^4+864\,r^5R^4-144\,l^2r^2R^5+768\,r^4R^5+256\,r^3R^6\Big)\}$$

$$\{X32,\ \text{ThirdPowerPoint},\ X81,\ \text{CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},$$
$$\frac{1}{\big(l^2-2\,l\,r-r^2-4\,r\,R\big)^2\big(l^2+2\,l\,r-r^2-4\,r\,R\big)^2\big(l^2-r^2-r\,R\big)^2}$$
$$r^2R\Big(4\,l^{10}r-16\,l^8r^3-40\,l^6r^5-16\,l^4r^7+4\,l^2r^9+l^{10}R-37\,l^8r^2R-150\,l^6r^4R-58\,l^4r^6R+53\,l^2r^8R-$$
$$r^{10}R-20\,l^8r\,R^2-48\,l^6r^3R^2+136\,l^4r^5R^2+272\,l^2r^7R^2-20\,r^9R^2+52\,l^6r^2R^3+648\,l^4r^4R^3+$$
$$628\,l^2r^6R^3-160\,r^8R^3+224\,l^4r^3R^4+416\,l^2r^5R^4-640\,r^7R^4-448\,l^2r^4R^5-1280\,r^6R^5-1024\,r^5R^6\Big)\}$$

{X32, ThirdPowerPoint, X82, ISOGONAL CONJUGATE OF X(38),

$$\left(r^2 R \left(2 l^{14} r - 6 l^{12} r^3 - 30 l^{10} r^5 - 22 l^8 r^7 + 22 l^6 r^9 + 30 l^4 r^{11} + 6 l^2 r^{13} - 2 r^{15} + l^{14} R - 59 l^{12} r^2 R + 137 l^{10} r^4 R + 133 l^8 r^6 R - 69 l^6 r^8 R + 247 l^4 r^{10} R + 187 l^2 r^{12} R - 65 r^{14} R - 36 l^{12} r R^2 + 784 l^{10} r^3 R^2 - 1780 l^8 r^5 R^2 + 1344 l^6 r^7 R^2 - 844 l^4 r^9 R^2 + 2480 l^2 r^{11} R^2 - 924 r^{13} R^2 + 516 l^{10} r^2 R^3 - 6272 l^8 r^4 R^3 + 14104 l^6 r^6 R^3 - 16016 l^4 r^8 R^3 + 18052 l^2 r^{10} R^3 - 7504 r^{12} R^3 - 4288 l^8 r^3 R^4 + 33600 l^6 r^5 R^4 - 67584 l^4 r^7 R^4 + 77632 l^2 r^9 R^4 - 38080 r^{11} R^4 + 22656 l^6 r^4 R^5 - 119808 l^4 r^6 R^5 + 196736 l^2 r^8 R^5 - 123648 r^{10} R^5 - 76800 l^4 r^5 R^6 + 271360 l^2 r^7 R^6 - 250880 r^9 R^6 + 156672 l^2 r^6 R^7 - 290816 r^8 R^7 - 147456 r^7 R^8\right)\right) \Big/ \left(\left(l^2 - 2 l r - r^2 - 4 r R\right)^2 \left(l^2 + 2 l r - r^2 - 4 r R\right)^2 \left(l^4 - 4 l^2 r^2 + 3 r^4 - 9 l^2 r R + 19 r^3 R + 28 r^2 R^2\right)^2\right)\}$$

{X32, ThirdPowerPoint, X83, CEVAPOINT OF CENTROID AND SYMMEDIAN POINT,

$$\left(\left(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\right)^2 \left(l^{10} + 11 l^8 r^2 - 118 l^6 r^4 + 118 l^4 r^6 - 11 l^2 r^8 - r^{10} - 20 l^8 r R - 112 l^6 r^3 R + 584 l^4 r^5 R - 112 l^2 r^7 R - 20 r^9 R + 52 l^6 r^2 R^2 + 648 l^4 r^4 R^2 - 396 l^2 r^6 R^2 - 160 r^8 R^2 + 224 l^4 r^3 R^3 - 608 l^2 r^5 R^3 - 640 r^7 R^3 - 448 l^2 r^4 R^4 - 1280 r^6 R^4 - 1024 r^5 R^5\right)\right) \Big/ \left(\left(l^2 - 2 l r - r^2 - 4 r R\right)^2 \left(l^2 + 2 l r - r^2 - 4 r R\right)^2 \left(5 l^4 - 6 l^2 r^2 + 5 r^4 - 40 l^2 r R + 40 r^3 R + 80 r^2 R^2\right)^2\right)\}$$

{X32, ThirdPowerPoint, X84, ISOGONAL CONJUGATE OF X(40),

$$\frac{1}{r^2 \left(-l^2 - 2 l r + r^2 + 4 r R\right)^2 \left(-l^2 + 2 l r + r^2 + 4 r R\right)^2}$$

$$4 R \left(l^{10} r - 9 l^8 r^3 + 19 l^6 r^5 - 3 l^4 r^7 - l^{10} R - 6 l^8 r^2 R + 57 l^6 r^4 R - 48 l^4 r^6 R + 2 l^2 r^8 R + 16 l^8 r R^2 - 136 l^4 r^5 R^2 + 24 l^2 r^7 R^2 + 4 l^8 R^3 - 144 l^6 r^2 R^3 + 184 l^4 r^4 R^3 + 32 l^2 r^6 R^3 + 4 r^8 R^3 - 64 l^6 r R^4 + 704 l^4 r^3 R^4 - 448 l^2 r^5 R^4 + 64 r^7 R^4 + 384 l^4 r^2 R^5 - 1536 l^2 r^4 R^5 + 384 r^6 R^5 - 1024 l^2 r^3 R^6 + 1024 r^5 R^6 + 1024 r^4 R^7\right)\}$$

{X32, ThirdPowerPoint, X85, ISOTOMIC CONJUGATE OF X(9),

$$\left(l^{14} - 3 l^{12} r^2 - 15 l^{10} r^4 - 11 l^8 r^6 + 11 l^6 r^8 + 15 l^4 r^{10} + 3 l^2 r^{12} - r^{14} - 36 l^{12} r R + 312 l^{10} r^3 R - 1052 l^8 r^5 R + 592 l^6 r^7 R + 100 l^4 r^9 R + 120 l^2 r^{11} R - 36 r^{13} R + 532 l^{10} r^2 R^2 - 3792 l^8 r^4 R^2 + 5400 l^6 r^6 R^2 - 1104 l^4 r^8 R^2 + 1908 l^2 r^{10} R^2 - 576 r^{12} R^2 + 64 l^{10} r R^3 - 4640 l^8 r^3 R^3 + 18528 l^6 r^5 R^3 - 14560 l^4 r^7 R^3 + 16224 l^2 r^9 R^3 - 5376 r^{11} R^3 - 1664 l^8 r^2 R^4 + 26560 l^6 r^4 R^4 - 62720 l^4 r^6 R^4 + 81600 l^2 r^8 R^4 - 32256 r^{10} R^4 + 15360 l^6 r^3 R^5 - 122880 l^4 r^5 R^5 + 248832 l^2 r^7 R^5 - 129024 r^9 R^5 + 1024 l^6 r^2 R^6 - 102400 l^4 r^4 R^6 + 445440 l^2 r^6 R^6 - 344064 r^8 R^6 - 24576 l^4 r^3 R^7 + 417792 l^2 r^5 R^7 - 589824 r^7 R^7 + 147456 l^2 r^4 R^8 - 589824 r^6 R^8 - 262144 r^5 R^9\right) \Big/ \left(\left(l^2 - 2 l r - r^2 - 4 r R\right)^2 \left(l^2 + 2 l r - r^2 - 4 r R\right)^2 \left(l^2 + r^2 + 8 r R + 16 R^2\right)^2\right)\}$$

{X32, ThirdPowerPoint, X86, CEVAPOINT OF INCENTER AND CENTROID,

$$\left(l^{14} + 21 l^{12} r^2 - 119 l^{10} r^4 - 219 l^8 r^6 - 5 l^6 r^8 + 71 l^4 r^{10} - 5 l^2 r^{12} - r^{14} - 12 l^{12} r R - 152 l^{10} r^3 R - 388 l^8 r^5 R + 624 l^6 r^7 R + 812 l^4 r^9 R - 88 l^2 r^{11} R - 28 r^{13} R - 92 l^{10} r^2 R^2 - 192 l^8 r^4 R^2 + 2712 l^6 r^6 R^2 + 3504 l^4 r^8 R^2 - 668 l^2 r^{10} R^2 - 336 r^{12} R^2 + 320 l^8 r^3 R^3 + 4160 l^6 r^5 R^3 + 7168 l^4 r^7 R^3 - 3008 l^2 r^9 R^3 - 2240 r^{11} R^3 + 2176 l^6 r^4 R^4 + 6144 l^4 r^6 R^4 - 9088 l^2 r^8 R^4 - 8960 r^{10} R^4 - 1024 l^4 r^5 R^5 - 17408 l^2 r^7 R^5 - 21504 r^9 R^5 - 15360 l^2 r^6 R^6 - 28672 r^8 R^6 - 16384 r^7 R^7\right) \Big/ \left(\left(l^2 - 2 l r - r^2 - 4 r R\right)^2 \left(l^2 + 2 l r - r^2 - 4 r R\right)^2 \left(5 l^2 + r^2 + 4 r R\right)^2\right)\}$$

{X32, ThirdPowerPoint, X87, X(2)-CROSS CONJUGATE OF X(1),

$$-\left(\left(4 r^2 R \left(3 l^{14} r - 7 l^{12} r^3 - 49 l^{10} r^5 - 67 l^8 r^7 - 23 l^6 r^9 + 11 l^4 r^{11} + 5 l^2 r^{13} - r^{15} - l^{14} R - 82 l^{12} r^2 R + 297 l^{10} r^4 R + 552 l^8 r^6 R + 65 l^6 r^8 R + 38 l^4 r^{10} R + 119 l^2 r^{12} R - 28 r^{14} R + 16 l^{12} r R^2 + 560 l^{10} r^3 R^2 - 1456 l^8 r^5 R^2 - 2784 l^6 r^7 R^2 + 624 l^4 r^9 R^2 + 1072 l^2 r^{11} R^2 - 336 r^{13} R^2 + 32 l^{10} r^2 R^3 - 1216 l^8 r^4 R^3 - 1728 l^6 r^6 R^3 + 6272 l^4 r^8 R^3 + 4512 l^2 r^{10} R^3 - 2240 r^{12} R^3 - 512 l^8 r^3 R^4 - 1536 l^6 r^5 R^4 + 16128 l^4 r^7 R^4 + 8192 l^2 r^9 R^4 - 8960 r^{11} R^4 - 256 l^6 r^4 R^5 + 6656 l^4 r^6 R^5 + 1792 l^2 r^8 R^5 - 21504 r^{10} R^5 + 4096 l^4 r^5 R^6 - 8192 l^2 r^7 R^6 - 28672 r^9 R^6 - 16384 r^8 R^7\right)\right) \Big/ \left(\left(l^2 - 2 l r - r^2 - 4 r R\right)^2 \left(l^2 + 2 l r - r^2 - 4 r R\right)^2 \left(l^4 + 2 l^2 r^2 + r^4 - 20 l^2 r R + 12 r^3 R + 32 r^2 R^2\right)^2\right)\right)\}$$

{X32, ThirdPowerPoint, X88, ISOGONAL CONJUGATE OF X(44),

$$-\left(\left(r^2 R \left(12 l^{10} r + 16 l^8 r^3 - 696 l^6 r^5 + 1168 l^4 r^7 - 180 l^2 r^9 - l^{10} R - 251 l^8 r^2 R + 390 l^6 r^4 R + 4426 l^4 r^6 R - 2277 l^2 r^8 R + 81 r^{10} R - 12 l^8 r R^2 + 240 l^6 r^3 R^2 + 4632 l^4 r^5 R^2 - 12816 l^2 r^7 R^2 + 1620 r^9 R^2 + 396 l^6 r^2 R^3 + 11512 l^4 r^4 R^3 - 41652 l^2 r^6 R^3 + 12960 r^8 R^3 + 2848 l^4 r^3 R^4 + 70560 l^2 r^5 R^4 + 51840 r^7 R^4 - 37440 l^2 r^4 R^5 + 103680 r^6 R^5 + 82944 r^5 R^6\right)\right) \Big/ \left(\left(l^2 + 3 r^2 - 15 r R\right)^2 \left(l^2 - 2 l r - r^2 - 4 r R\right)^2 \left(l^2 + 2 l r - r^2 - 4 r R\right)^2\right)\right)\}$$

{X32, ThirdPowerPoint, X89, ISOGONAL CONJUGATE OF X(45),

$$\left(r^2 R \left(32 l^8 r^3 + 96 l^6 r^5 - 1696 l^4 r^7 + 288 l^2 r^9 + l^{10} R + 107 l^8 r^2 R + 282 l^6 r^4 R - 10330 l^4 r^6 R + 4005 l^2 r^8 R - 81 r^{10} R + 12 l^8 r R^2 - 48 l^6 r^3 R^2 - 21336 l^4 r^5 R^2 + 23184 l^2 r^7 R^2 - 1620 r^9 R^2 - 396 l^6 r^2 R^3 - 17656 l^4 r^4 R^3 + 69300 l^2 r^6 R^3 - 12960 r^8 R^3 - 2848 l^4 r^3 R^4 + 98208 l^2 r^5 R^4 - 51840 r^7 R^4 + 37440 l^2 r^4 R^5 - 103680 r^6 R^5 - 82944 r^5 R^6\right)\right) \Big/ \left(\left(l^2 - 2 l r - r^2 - 4 r R\right)^2 \left(l^2 + 2 l r - r^2 - 4 r R\right)^2 \left(2 l^2 - 6 r^2 + 3 r R\right)^2\right)\}$$

{X32, ThirdPowerPoint, X90, X(3)-CROSS CONJUGATE OF X(1),

$$\left(4 r^2 R \left(l^{10} r - 9 l^8 r^3 + 19 l^6 r^5 - 3 l^4 r^7 - 12 l^8 r^2 R + 57 l^6 r^4 R - 42 l^4 r^6 R + l^2 r^8 R - 8 l^8 r R^2 + 104 l^6 r^3 R^2 - 176 l^4 r^5 R^2 + 16 l^2 r^7 R^2 + 78 l^6 r^2 R^3 - 292 l^4 r^4 R^3 + 94 l^2 r^6 R^3 + 19 l^6 r R^4 - 323 l^4 r^3 R^4 + 265 l^2 r^5 R^4 - r^7 R^4 + l^6 R^5 - 174 l^4 r^2 R^5 + 433 l^2 r^4 R^5 - 16 r^6 R^5 - 24 l^4 r R^6 + 472 l^2 r^3 R^6 - 96 r^5 R^6 + 144 l^2 r^2 R^7 - 256 r^4 R^7 - 256 r^3 R^8\right)\right) \Big/ \left(\left(-l^2 - 2 l r + r^2 + 4 r R\right)^2 \left(-l^2 + 2 l r + r^2 + 4 r R\right)^2 \left(r^2 + 2 r R - R^2\right)^2\right)\}$$

{X32, ThirdPowerPoint, X91, ISOGONAL CONJUGATE OF X(47),

$$\left(r^2 \left(l^{14} - 3 l^{12} r^2 - 15 l^{10} r^4 - 11 l^8 r^6 + 11 l^6 r^8 + 15 l^4 r^{10} + 3 l^2 r^{12} - r^{14} - 38 l^{12} r R + 228 l^{10} r^3 R - 530 l^8 r^5 R + 856 l^6 r^7 R - 234 l^4 r^9 R + 132 l^2 r^{11} R - 30 r^{13} R - 8 l^{12} R^2 + 528 l^{10} r^2 R^2 - 2684 l^8 r^4 R^2 + 5648 l^6 r^6 R^2 - 4240 l^4 r^8 R^2 + 1856 l^2 r^{10} R^2 - 396 r^{12} R^2 + 284 l^{10} r R^3 - 4892 l^8 r^3 R^3 + 17272 l^6 r^5 R^3 - 23064 l^4 r^7 R^3 + 12908 l^2 r^9 R^3 - 3020 r^{11} R^3 + 24 l^{10} R^4 - 3444 l^8 r^2 R^4 + 28016 l^6 r^4 R^4 - 62664 l^4 r^6 R^4 + 51416 l^2 r^8 R^4 - 14692 r^{10} R^4 - 776 l^8 r R^5 + 22784 l^6 r^3 R^5 - 97168 l^4 r^5 R^5 + 124608 l^2 r^7 R^5 - 47528 r^9 R^5 - 32 l^8 R^6 + 8080 l^6 r^2 R^6 - 86368 l^4 r^4 R^6 + 187792 l^2 r^6 R^6 - 103520 r^8 R^6 + 912 l^6 r R^7 - 39920 l^4 r^3 R^7 + 174704 l^2 r^5 R^7 - 150800 r^7 R^7 + 16 l^6 R^8 - 7648 l^4 r^2 R^8 + 94480 l^2 r^4 R^8 - 143616 r^6 R^8 - 384 l^4 r R^9 + 25472 l^2 r^3 R^9 - 85504 r^5 R^9 + 2304 l^2 r^2 R^{10} - 28672 r^4 R^{10} - 4096 r^3 R^{11}\right)\right) \Big/ \left(\left(l^2 - 2 l r - r^2 - 4 r R\right)^2 \left(l^2 + 2 l r - r^2 - 4 r R\right)^2 \left(l^2 r + r^3 - l^2 R + 3 r^2 R + 2 r R^2 + 2 R^3\right)^2\right)\}$$

{X32, ThirdPowerPoint, X92, CEVAPOINT OF INCENTER AND CLAWSON POINT,

$$\frac{1}{\left(l^2 - 2 l r - r^2 - 4 r R\right)^2 \left(l^2 + 2 l r - r^2 - 4 r R\right)^2 \left(l^2 + r^2 - 4 R^2\right)^2} \left(l^{14} - 3 l^{12} r^2 - 15 l^{10} r^4 - 11 l^8 r^6 + 11 l^6 r^8 + 15 l^4 r^{10} + 3 l^2 r^{12} - r^{14} - 36 l^{12} r R + 224 l^{10} r^3 R - 564 l^8 r^5 R + 800 l^6 r^7 R - 268 l^4 r^9 R + 128 l^2 r^{11} R - 28 r^{13} R - 8 l^{12} R^2 + 484 l^{10} r^2 R^2 - 2584 l^8 r^4 R^2 + 5752 l^6 r^6 R^2 - 4456 l^4 r^8 R^2 + 1732 l^2 r^{10} R^2 - 344 r^{12} R^2 + 256 l^{10} r R^3 - 4512 l^8 r^3 R^3 + 17376 l^6 r^5 R^3 - 23264 l^4 r^7 R^3 + 11552 l^2 r^9 R^3 - 2432 r^{11} R^3 + 16 l^{10} R^4 - 2800 l^8 r^2 R^4 + 25088 l^6 r^4 R^4 - 59776 l^4 r^6 R^4 + 43760 l^2 r^8 R^4 - 10896 r^{10} R^4 - 448 l^8 r R^5 + 16768 l^6 r^3 R^5 - 81664 l^4 r^5 R^5 + 98432 l^2 r^7 R^5 - 32064 r^9 R^5 + 3904 l^6 r^2 R^6 - 55680 l^4 r^4 R^6 + 129344 l^2 r^6 R^6 - 61952 r^8 R^6 - 14848 l^4 r^3 R^7 + 90624 l^2 r^5 R^7 - 75776 r^7 R^7 + 25600 l^2 r^4 R^8 - 53248 r^6 R^8 - 16384 r^5 R^9\right)\}$$

$$\{X32, \text{ThirdPowerPoint}, X93, \text{ISOGONAL CONJUGATE OF } X(49),$$
$$\big(l^{18} - l^{16} r^2 - 20 l^{14} r^4 - 44 l^{12} r^6 - 26 l^{10} r^8 + 26 l^8 r^{10} + 44 l^6 r^{12} + 20 l^4 r^{14} + l^2 r^{16} - r^{18} -$$
$$36 l^{16} r R + 64 l^{14} r^3 R + 336 l^{12} r^5 R + 192 l^{10} r^7 R - 88 l^8 r^9 R + 192 l^6 r^{11} R + 336 l^4 r^{13} R +$$
$$64 l^2 r^{15} R - 36 r^{17} R - 10 l^{16} R^2 + 444 l^{14} r^2 R^2 + 240 l^{12} r^4 R^2 - 5244 l^{10} r^6 R^2 + 5748 l^8 r^8 R^2 -$$
$$4476 l^6 r^{10} R^2 + 2928 l^4 r^{12} R^2 + 1212 l^2 r^{14} R^2 - 586 r^{16} R^2 + 320 l^{14} r R^3 - 2528 l^{12} r^3 R^3 -$$
$$13856 l^{10} r^5 R^3 + 50432 l^8 r^7 R^3 - 51200 l^6 r^9 R^3 + 19232 l^4 r^{11} R^3 + 11488 l^2 r^{13} R^3 - 5696 r^{15} R^3 +$$
$$32 l^{14} R^4 - 3072 l^{12} r^2 R^4 - 5376 l^{10} r^4 R^4 + 137696 l^8 r^6 R^4 - 238560 l^6 r^8 R^4 + 99264 l^4 r^{10} R^4 +$$
$$64192 l^2 r^{12} R^4 - 36768 r^{14} R^4 - 896 l^{12} r R^5 + 8576 l^{10} r^3 R^5 + 153984 l^8 r^5 R^5 - 590592 l^6 r^7 R^5 +$$
$$368000 l^4 r^9 R^5 + 224640 l^2 r^{11} R^5 - 165760 r^{13} R^5 - 34 l^{12} R^6 + 6004 l^{10} r^2 R^6 + 66370 l^8 r^4 R^6 -$$
$$799912 l^6 r^6 R^6 + 910658 l^4 r^8 R^6 + 493428 l^2 r^{10} R^6 - 534050 r^{12} R^6 + 816 l^{10} r R^7 + 3472 l^8 r^3 R^7 -$$
$$565152 l^6 r^5 R^7 + 1425312 l^4 r^7 R^7 + 633456 l^2 r^9 R^7 - 1235760 r^{11} R^7 + 7 l^{10} R^8 - 2403 l^8 r^2 R^8 -$$
$$189962 l^6 r^4 R^8 + 1320266 l^4 r^6 R^8 + 337923 l^2 r^8 R^8 - 2031591 r^{10} R^8 - 140 l^8 r R^9 - 25424 l^6 r^3 R^9 +$$
$$653688 l^4 r^5 R^9 - 190288 l^2 r^7 R^9 - 2304652 r^9 R^9 + 4 l^8 R^{10} - 1164 l^6 r^2 R^{10} + 152256 l^4 r^4 R^{10} -$$
$$366028 l^2 r^6 R^{10} - 1704540 r^8 R^{10} - 64 l^6 r R^{11} + 13856 l^4 r^3 R^{11} - 171168 l^2 r^5 R^{11} - 737600 r^7 R^{11} +$$
$$384 l^4 r^2 R^{12} - 28096 l^2 r^4 R^{12} - 147840 r^6 R^{12} - 1024 l^2 r^3 R^{13} - 6144 r^5 R^{13} + 1024 r^4 R^{14}\big) /$$
$$\big((l^2 - 2 l r - r^2 - 4 r R)^2 (l^2 + 2 l r - r^2 - 4 r R)^2$$
$$(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 8 l^2 R^2 + 24 r^2 R^2 + 32 r R^3 + 13 R^4)^2\big)\}$$

$$\{X32, \text{ThirdPowerPoint}, X94, \text{ISOGONAL CONJUGATE OF } X(50),$$
$$\big(l^{18} - l^{16} r^2 - 20 l^{14} r^4 - 44 l^{12} r^6 - 26 l^{10} r^8 + 26 l^8 r^{10} + 44 l^6 r^{12} + 20 l^4 r^{14} + l^2 r^{16} - r^{18} - 36 l^{16} r R +$$
$$64 l^{14} r^3 R + 336 l^{12} r^5 R + 192 l^{10} r^7 R - 88 l^8 r^9 R + 192 l^6 r^{11} R + 336 l^4 r^{13} R + 64 l^2 r^{15} R -$$
$$36 r^{17} R - 12 l^{16} R^2 + 444 l^{14} r^2 R^2 + 280 l^{12} r^4 R^2 - 5116 l^{10} r^6 R^2 + 5928 l^8 r^8 R^2 - 4348 l^6 r^{10} R^2 +$$
$$2968 l^4 r^{12} R^2 + 1212 l^2 r^{14} R^2 - 588 r^{16} R^2 + 384 l^{14} r R^3 - 2592 l^{12} r^3 R^3 - 14432 l^{10} r^5 R^3 +$$
$$49984 l^8 r^7 R^3 - 50752 l^6 r^9 R^3 + 19808 l^4 r^{11} R^3 + 11552 l^2 r^{13} R^3 - 5760 r^{15} R^3 + 54 l^{14} R^4 -$$
$$3810 l^{12} r^2 R^4 - 5034 l^{10} r^4 R^4 + 138286 l^8 r^6 R^4 - 238254 l^6 r^8 R^4 + 102378 l^4 r^{10} R^4 + 65570 l^2 r^{12} R^4 -$$
$$37686 r^{14} R^4 - 1512 l^{12} r R^5 + 13200 l^{10} r^3 R^5 + 155496 l^8 r^5 R^5 - 591904 l^6 r^7 R^5 + 374632 l^4 r^9 R^5 +$$
$$237456 l^2 r^{11} R^5 - 173544 r^{13} R^5 - 108 l^{12} R^6 + 11448 l^{10} r^2 R^6 + 56076 l^8 r^4 R^6 - 810480 l^6 r^6 R^6 +$$
$$911532 l^4 r^8 R^6 + 560440 l^2 r^{10} R^6 - 577356 r^{12} R^6 + 2592 l^{10} r R^7 - 16416 l^8 r^3 R^7 - 583104 l^6 r^5 R^7 +$$
$$1419456 l^4 r^7 R^7 + 847264 l^2 r^9 R^7 - 1401504 r^{11} R^7 + 81 l^{10} R^8 - 13365 l^8 r^2 R^8 - 187974 l^6 r^4 R^8 +$$
$$1354182 l^4 r^6 R^8 + 757749 l^2 r^8 R^8 - 2475921 r^{10} R^8 - 1620 l^8 r R^9 - 10800 l^6 r^3 R^9 + 735048 l^4 r^5 R^9 +$$
$$290256 l^2 r^7 R^9 - 3136084 r^9 R^9 + 4212 l^6 r^2 R^{10} + 197640 l^4 r^4 R^{10} - 94284 l^2 r^6 R^{10} - 2762400 r^8 R^{10} +$$
$$18144 l^4 r^3 R^{11} - 132192 l^2 r^5 R^{11} - 1600128 r^7 R^{11} - 36288 l^2 r^4 R^{12} - 546048 r^6 R^{12} - 82944 r^5 R^{13}\big) /$$
$$\big((l^2 - 2 l r - r^2 - 4 r R)^2 (l^2 + 2 l r - r^2 - 4 r R)^2$$
$$(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 12 l^2 R^2 + 28 r^2 R^2 + 48 r R^3 + 27 R^4)^2\big)\}$$

$$\{X32, \text{ThirdPowerPoint}, X95, \text{CEVAPOINT OF CENTROID AND CIRCUMCENTER},$$
$$\big(l^{18} + 15 l^{16} r^2 - 68 l^{14} r^4 - 284 l^{12} r^6 - 202 l^{10} r^8 + 202 l^8 r^{10} + 284 l^6 r^{12} + 68 l^4 r^{14} - 15 l^2 r^{16} - r^{18} -$$
$$36 l^{16} r R - 384 l^{14} r^3 R + 1744 l^{12} r^5 R + 1664 l^{10} r^7 R - 856 l^8 r^9 R + 1664 l^6 r^{11} R + 1744 l^4 r^{13} R -$$
$$384 l^2 r^{15} R - 36 r^{17} R - 8 l^{16} R^2 + 404 l^{14} r^2 R^2 + 4760 l^{12} r^4 R^2 - 17748 l^{10} r^6 R^2 + 10016 l^8 r^8 R^2 -$$
$$11092 l^6 r^{10} R^2 + 18712 l^4 r^{12} R^2 - 4204 l^2 r^{14} R^2 - 584 r^{16} R^2 + 256 l^{14} r R^3 - 1504 l^{12} r^3 R^3 -$$
$$37024 l^{10} r^5 R^3 + 107072 l^8 r^7 R^3 - 122176 l^6 r^9 R^3 + 108960 l^4 r^{11} R^3 - 25376 l^2 r^{13} R^3 - 5632 r^{15} R^3 +$$
$$16 l^{14} R^4 - 2704 l^{12} r^2 R^4 - 8016 l^{10} r^4 R^4 + 184208 l^8 r^6 R^4 - 398352 l^6 r^8 R^4 + 374032 l^4 r^{10} R^4 -$$
$$89776 l^2 r^{12} R^4 - 35856 r^{14} R^4 - 448 l^{12} r R^5 + 11520 l^{10} r^3 R^5 + 108480 l^8 r^5 R^5 - 588288 l^6 r^7 R^5 +$$
$$772032 l^4 r^9 R^5 - 175872 l^2 r^{11} R^5 - 158144 r^{13} R^5 + 3648 l^{10} r^2 R^6 + 4864 l^8 r^4 R^6 - 477312 l^6 r^6 R^6 +$$
$$952832 l^4 r^8 R^6 - 122304 l^2 r^{10} R^6 - 492800 r^{12} R^6 - 8192 l^8 r^3 R^7 - 191488 l^6 r^5 R^7 + 730112 l^4 r^7 R^7 +$$
$$193536 l^2 r^9 R^7 - 1084416 r^{11} R^7 - 22528 l^6 r^4 R^8 + 405504 l^4 r^6 R^8 + 452608 l^2 r^8 R^8 - 1650688 r^{10} R^8 +$$
$$98304 l^4 r^5 R^9 + 278528 l^2 r^7 R^9 - 1654784 r^9 R^9 + 16384 l^2 r^6 R^{10} - 983040 r^8 R^{10} - 262144 r^7 R^{11}\big) /$$
$$\big((l^2 - 2 l r - r^2 - 4 r R)^2 (l^2 + 2 l r - r^2 - 4 r R)^2$$
$$(l^4 + 18 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 4 l^2 R^2 + 20 r^2 R^2 + 16 r R^3)^2\big)\}$$

$$\{X32,\ \text{ThirdPowerPoint},\ X96,\ \text{ISOGONAL CONJUGATE OF } X(52),$$
$$-\Big(\big(l^{18}-17 l^{16} r^2+28 l^{14} r^4+196 l^{12} r^6+150 l^{10} r^8-150 l^8 r^{10}-196 l^6 r^{12}-28 l^4 r^{14}+17 l^2 r^{16}-r^{18}-$$
$$36 l^{16} r R+512 l^{14} r^3 R-1072 l^{12} r^5 R-1280 l^{10} r^7 R+680 l^8 r^9 R-1280 l^6 r^{11} R-1072 l^4 r^{13} R+$$
$$512 l^2 r^{15} R-36 r^{17} R-12 l^{16} R^2+780 l^{14} r^2 R^2-7368 l^{12} r^4 R^2+14772 l^{10} r^6 R^2-9496 l^8 r^8 R^2+$$
$$9652 l^6 r^{10} R^2-15944 l^4 r^{12} R^2+6924 l^2 r^{14} R^2-588 r^{16} R^2+384 l^{14} r R^3-10656 l^{12} r^3 R^3+$$
$$65824 l^{10} r^5 R^3-122816 l^8 r^7 R^3+136384 l^6 r^9 R^3-127008 l^4 r^{11} R^3+55456 l^2 r^{13} R^3-5760 r^{15} R^3+$$
$$56 l^{14} R^4-6344 l^{12} r^2 R^4+94616 l^{10} r^4 R^4-388008 l^8 r^6 R^4+633640 l^6 r^8 R^4-611928 l^4 r^{10} R^4+$$
$$292104 l^2 r^{12} R^4-37688 r^{14} R^4-1568 l^{12} r R^5+63936 l^{10} r^3 R^5-553440 l^8 r^5 R^5+1529984 l^6 r^7 R^5-$$
$$1882592 l^4 r^9 R^5+1062336 l^2 r^{11} R^5-173600 r^{13} R^5-128 l^{12} R^6+21088 l^{10} r^2 R^6-412544 l^8 r^4 R^6+$$
$$2107456 l^6 r^6 R^6-3777280 l^4 r^8 R^6+2724960 l^2 r^{10} R^6-578048 r^{12} R^6+3072 l^{10} r R^7-$$
$$164864 l^8 r^3 R^7+1688064 l^6 r^5 R^7-4945408 l^4 r^7 R^7+4948480 l^2 r^9 R^7-1406464 r^{11} R^7+$$
$$144 l^{10} R^8-33360 l^8 r^2 R^8+781600 l^6 r^4 R^8-4157728 l^4 r^6 R^8+6297168 l^2 r^8 R^8-2498704 r^{10} R^8-$$
$$2880 l^8 r R^9+198400 l^6 r^3 R^9-2165632 l^4 r^5 R^9+5482240 l^2 r^7 R^9-3205952 r^9 R^9-64 l^8 R^{10}+$$
$$24256 l^6 r^2 R^{10}-657408 l^4 r^4 R^{10}+3136192 l^2 r^6 R^{10}-2906688 r^8 R^{10}+1024 l^6 r R^{11}-$$
$$102912 l^4 r^3 R^{11}+1104384 l^2 r^5 R^{11}-1797120 r^7 R^{11}-6144 l^4 r^2 R^{12}+211968 l^2 r^4 R^{12}-$$
$$714752 r^6 R^{12}+16384 l^2 r^3 R^{13}-163840 r^5 R^{13}-16384 r^4 R^{14}\big)\Big/\Big(\big(l^2-2 l r-r^2-4 r R\big)^2$$
$$\big(l^2+2 l r-r^2-4 r R\big)^2\big(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2-4 R^4\big)^2\Big)\Big)\}$$

$$\{X32,\ \text{ThirdPowerPoint},\ X97,\ \text{ISOGONAL CONJUGATE OF } X(53),$$
$$\big(R^4\big(l^{14}+25 l^{12} r^2-219 l^{10} r^4+269 l^8 r^6-269 l^6 r^8+219 l^4 r^{10}-25 l^2 r^{12}-r^{14}-28 l^{12} r R-472 l^{10} r^3 R+$$
$$3100 l^8 r^5 R-4176 l^6 r^7 R+3100 l^4 r^9 R-472 l^2 r^{11} R-28 r^{13} R-8 l^{12} R^2+84 l^{10} r^2 R^2+4792 l^8 r^4 R^2-$$
$$20072 l^6 r^6 R^2+17192 l^4 r^8 R^2-3692 l^2 r^{10} R^2-344 r^{12} R^2+192 l^{10} r R^3+1600 l^8 r^3 R^3-$$
$$26176 l^6 r^5 R^3+47296 l^4 r^7 R^3-15360 l^2 r^9 R^3-2432 r^{11} R^3+16 l^{10} R^4-880 l^8 r^2 R^4-14720 l^6 r^4 R^4+$$
$$67072 l^4 r^6 R^4-36240 l^2 r^8 R^4-10896 r^{10} R^4-320 l^8 r R^5-1920 l^6 r^3 R^5+46976 l^4 r^5 R^5-$$
$$48000 l^2 r^7 R^5-32064 r^9 R^5+832 l^6 r^2 R^6+21120 l^4 r^4 R^6-34496 l^2 r^6 R^6-61952 r^8 R^6+$$
$$3584 l^4 r^3 R^7-15872 l^2 r^5 R^7-75776 r^7 R^7-7168 l^2 r^4 R^8-53248 r^6 R^8-16384 r^5 R^9\big)\big)\Big/$$
$$\Big(\big(l^2-2 l r-r^2-4 r R\big)^2\big(l^2+2 l r-r^2-4 r R\big)^2$$
$$\big(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-7 l^2 R^2+23 r^2 R^2+28 r R^3+12 R^4\big)^2\Big)\}$$

$$\{X32,\ \text{ThirdPowerPoint},\ X98,\ \text{TarryPoint},$$
$$-\Big(\Big(\big(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\big)^2\big(l^6-7 l^4 r^2+7 l^2 r^4-r^6-12 l^4 r R+$$
$$40 l^2 r^3 R-12 r^5 R-4 l^4 R^2+68 l^2 r^2 R^2-52 r^4 R^2+32 l^2 r R^3-96 r^3 R^3-64 r^2 R^4\big)\Big)\Big/$$
$$\Big(\big(l^2-2 l r-r^2-4 r R\big)^2\big(l^2+2 l r-r^2-4 r R\big)^2\big(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\big)\Big)\Big)\}$$

$$\{X32,\ \text{ThirdPowerPoint},\ X99,\ \text{STEINER POINT},$$
$$\big(l^{14}-3 l^{12} r^2-15 l^{10} r^4-11 l^8 r^6+11 l^6 r^8+15 l^4 r^{10}+3 l^2 r^{12}-r^{14}-28 l^{12} r R+88 l^{10} r^3 R+$$
$$92 l^8 r^5 R-48 l^6 r^7 R+92 l^4 r^9 R+88 l^2 r^{11} R-28 r^{13} R+228 l^{10} r^2 R^2-64 l^8 r^4 R^2-$$
$$1256 l^6 r^6 R^2+304 l^4 r^8 R^2+932 l^2 r^{10} R^2-336 r^{12} R^2-512 l^8 r^3 R^3-3136 l^6 r^5 R^3+2240 l^4 r^7 R^3+$$
$$4672 l^2 r^9 R^3-2240 r^{11} R^3-1408 l^6 r^4 R^4+7680 l^4 r^6 R^4+11392 l^2 r^8 R^4-8960 r^{10} R^4+$$
$$6144 l^4 r^5 R^5+11264 l^2 r^7 R^5-21504 r^9 R^5+1024 l^2 r^6 R^6-28672 r^8 R^6-16384 r^7 R^7\big)\Big/$$
$$\Big(\big(l^2-2 l r-r^2-4 r R\big)^2\big(l^2+2 l r-r^2-4 r R\big)^2\big(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\big)\Big)\}$$

$$\{X32,\ \text{ThirdPowerPoint},\ X100,\ \text{ANTICOMPLEMENT OF FEUERBACH POINT},$$
$$\big(R\big(-l^{10}+5 l^8 r^2+6 l^6 r^4-6 l^4 r^6-5 l^2 r^8+r^{10}+28 l^8 r R-160 l^6 r^3 R+$$
$$192 l^4 r^5 R-112 l^2 r^7 R+20 r^9 R-244 l^6 r^2 R^2+952 l^4 r^4 R^2-756 l^2 r^6 R^2+160 r^8 R^2+$$
$$928 l^4 r^3 R^3-1952 l^2 r^5 R^3+640 r^7 R^3-1600 l^2 r^4 R^4+1280 r^6 R^4+1024 r^5 R^5\big)\big)\Big/$$
$$\Big((2 r-R)\big(-l^2-2 l r+r^2+4 r R\big)^2\big(-l^2+2 l r+r^2+4 r R\big)^2\Big)\}$$

$$\{X33,\ \text{PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES},\ X34,$$
$$X(4)\text{-BETH CONJUGATE OF } X(4),\ -\frac{16 r^2 (l-r-2 R)^2 R^2 (l+r+2 R)^2\big(l^2-3 r^2-4 r R-4 R^2\big)}{\big(l^2-r^2-6 r R-4 R^2\big)^2\big(l^2-r^2-2 r R-4 R^2\big)^2}\}$$

$$\left\{\text{X33, PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES, X35, }\{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF }X(36),\ -\frac{4r^2R\left(4l^4r-4l^2r^3-18l^2r^2R+2r^4R-32l^2rR^2+20r^3R^2+l^2R^3+61r^2R^3+60rR^4-4R^5\right)}{(2r+R)^2\left(-l^2+r^2+2rR+4R^2\right)^2}\right\}$$

$$\left\{\text{X33, PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES, X36, INVERSE-IN-CIRCUMCIRCLE OF INCENTER},\ -\frac{4r^2R\left(2l^4-2l^2r^2-10l^2rR+2r^3R-17l^2R^2+19r^2R^2+44rR^3+36R^4\right)}{(2r-R)\left(-l^2+r^2+2rR+4R^2\right)^2}\right\}$$

$$\left\{\text{X33, PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES, X37, CrosspointOfIncenterAndCentroid},\ -\frac{4r^2R(r+2R)^2\left(4l^4r-4l^2r^3+l^4R-18l^2r^2R+r^4R-36l^2rR^2+12r^3R^2-4l^2R^3+48r^2R^3+64rR^4\right)}{\left(l^2+r^2+4rR\right)^2\left(l^2-r^2-2rR-4R^2\right)^2}\right\}$$

$$\left\{\text{X33, PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES, X38, CROSSPOINT OF }X(1)\text{ AND }X(75),\ -\left(\left(16r^2R\left(3l^4r^3-4l^2r^5+r^7+4l^4r^2R-21l^2r^4R+11r^6R+2l^4rR^2-44l^2r^3R^2+46r^5R^2+l^4R^3-42l^2r^2R^3+101r^4R^3-28l^2rR^4+140r^3R^4-4l^2R^5+112r^2R^5+64rR^6\right)\right)\Big/\left(\left(l^2+r^2-2rR\right)^2\left(l^2-r^2-2rR-4R^2\right)^2\right)\right)\right\}$$

$$\left\{\text{X33, PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES, X39, BrocardMidpoint},\ -\left(\left(4r^2R\left(2l^{10}r+4l^8r^3-4l^4r^7-2l^2r^9-39l^8r^2R+24l^6r^4R-26l^4r^6R-24l^2r^8R+r^{10}R-4l^8rR^2+116l^6r^3R^2-84l^4r^5R^2-116l^2r^7R^2+24r^9R^2+4l^8R^3+92l^6r^2R^3-160l^4r^4R^3-388l^2r^6R^3+244r^8R^3-128l^6rR^4+432l^4r^3R^4-1344l^2r^5R^4+1360r^7R^4-16l^6R^5+992l^4r^2R^5-3536l^2r^4R^5+4480r^6R^5+384l^4rR^6-4736l^2r^3R^6+8704r^5R^6-2304l^2r^2R^7+9216r^4R^7+4096r^3R^8\right)\right)\Big/\left(\left(l^2-r^2-2rR-4R^2\right)^2\left(l^4+2l^2r^2+r^4-8l^2rR+8r^3R+16r^2R^2\right)^2\right)\right)\right\}$$

$$\left\{\text{X33, PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES, X40, BEVAN POINT},\ -\frac{4R\left(3l^4r-4l^2r^3+r^5-l^4R-13l^2r^2R+8r^4R-20l^2rR^2+28r^3R^2+8l^2R^3+48r^2R^3+32rR^4-16R^5\right)}{\left(l^2-r^2-2rR-4R^2\right)^2}\right\}$$

$$\left\{\text{X33, PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES, X41, }X(6)\text{-CEVA CONJUGATE OF }X(31),\ -\frac{1}{\left(l^2-r^2-2rR-4R^2\right)^2\left(3l^2r-r^3+2l^2R-8r^2R-16rR^2\right)^2}4r^2R\left(6l^8r-14l^6r^3+10l^4r^5-2l^2r^7+5l^8R-88l^6r^2R+110l^4r^4R-36l^2r^6R+r^8R-160l^6rR^2+528l^4r^3R^2-296l^2r^5R^2+24r^7R^2-52l^6R^3+1244l^4r^2R^3-1404l^2r^4R^3+244r^6R^3+1200l^4rR^4-3904l^2r^3R^4+1360r^5R^4+192l^4R^5-5840l^2r^2R^5+4480r^4R^5-3712l^2rR^6+8704r^3R^6-256l^2R^7+9216r^2R^7+4096rR^8\right)\right\}$$

$$\left\{\text{X33, PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES, X42, CROSSPOINT OF INCENTER AND SYMMEDIAN POINT},\ \left(16r^2R^2\left(3l^4r^2-l^2r^4-4l^4rR-4l^2r^3R-l^4R^2+2l^2r^2R^2-r^4R^2+36l^2rR^3-12r^3R^3+4l^2R^4-48r^2R^4-64rR^5\right)\right)\Big/\left(\left(l^2+r^2-2rR\right)^2\left(l^2-r^2-2rR-4R^2\right)^2\right)\right\}$$

$$\left\{\text{X33, PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES, X43, }X(6)\text{-CEVA CONJUGATE OF }X(1),\ \frac{4r^2R^2\left(3l^2-r^2-8rR-16R^2\right)\left(l^4+10l^2r^2-7r^4-20l^2rR-20r^3R-4l^2R^2+12r^2R^2+64rR^3\right)}{\left(l^2+r^2-8rR\right)^2\left(l^2-r^2-2rR-4R^2\right)^2}\right\}$$

$$\left\{\text{X33, PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES, X44, }X(6)\text{-LINE CONJUGATE OF }X(1),\ \left(4r^2R\left(12l^6r-36l^4r^3+24l^2r^5+8l^6R-153l^4r^2R+186l^2r^4R-9r^6R-260l^4rR^2+732l^2r^3R^2-144r^5R^2-68l^4R^3+1596l^2r^2R^3-900r^4R^3+1440l^2rR^4-2736r^3R^4+144l^2R^5-4032r^2R^5-2304rR^6\right)\right)\Big/\left(\left(l^2-3r^2-12rR\right)^2\left(l^2-r^2-2rR-4R^2\right)^2\right)\right\}$$

$$\{X33,\ \text{PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES},\ X45,\ X(9)\text{-BETH CONJUGATE OF } X(1),$$
$$\big(4 r^2 R \big(6 l^6 r - 36 l^4 r^3 + 30 l^2 r^5 + 8 l^6 R - 165 l^4 r^2 R + 246 l^2 r^4 R - 9 r^6 R - 236 l^4 r R^2 + 924 l^2 r^3 R^2 - 144 r^5 R^2 - 68 l^4 R^3 + 1788 l^2 r^2 R^3 - 900 r^4 R^3 + 1440 l^2 r R^4 - 2736 r^3 R^4 + 144 l^2 R^5 - 4032 r^2 R^5 - 2304 r R^6\big)\big) \big/ \big(\big(l^2 + 3 r^2 + 12 r R\big)^2 \big(l^2 - r^2 - 2 r R - 4 R^2\big)^2\big)\}$$

$$\{X33,\ \text{PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES},\ X46,$$
$$X(4)\text{-CEVA CONJUGATE OF } X(1),\ -\big(\big(4 r^2 R \big(3 l^4 r - 4 l^2 r^3 + r^5 - 2 l^4 R - 13 l^2 r^2 R + 9 r^4 R - 14 l^2 r R^2 + 30 r^3 R^2 + 17 l^2 R^3 + 41 r^2 R^3 + 4 r R^4 - 36 R^5\big)\big) \big/ \big((r - R)^2 \big(-l^2 + r^2 + 2 r R + 4 R^2\big)^2\big)\big)\}$$

$$\{X33,\ \text{PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES},\ X47,\ X(110)\text{-BETH CONJUGATE OF } X(34),$$
$$\big(16 r^2 R \big(l^6 r - 4 l^4 r^3 + 3 l^2 r^5 - 10 l^4 r^2 R + 17 l^2 r^4 R - r^6 R - 11 l^4 r R^2 + 52 l^2 r^3 R^2 - 13 r^5 R^2 + 76 l^2 r^2 R^3 - 64 r^4 R^3 + 44 l^2 r R^4 - 148 r^3 R^4 - l^2 R^5 - 157 r^2 R^5 - 60 r R^6 + 4 R^7\big)\big) \big/ \big(\big(l^2 - r^2 - 2 r R - 4 R^2\big)^2 \big(l^2 - 3 r^2 - 6 r R - 2 R^2\big)^2\big)\}$$

$$\{X33,\ \text{PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES},\ X48,$$
$$\text{CROSSPOINT OF } X(1) \text{ AND } X(63),\ -\frac{1}{\big(3 l^2 - r^2 - 6 r R - 8 R^2\big)^2 \big(l^2 - r^2 - 2 r R - 4 R^2\big)^2}$$
$$4 R \big(6 l^8 r - 14 l^6 r^3 + 10 l^4 r^5 - 2 l^2 r^7 + l^8 R - 64 l^6 r^2 R + 82 l^4 r^4 R - 28 l^2 r^6 R + r^8 R - 92 l^6 r R^2 + 356 l^4 r^3 R^2 - 204 l^2 r^5 R^2 + 20 r^7 R^2 - 12 l^6 R^3 + 688 l^4 r^2 R^3 - 860 l^2 r^4 R^3 + 168 r^6 R^3 + 512 l^4 r R^4 - 2016 l^2 r^3 R^4 + 768 r^5 R^4 + 48 l^4 R^5 - 2432 l^2 r^2 R^5 + 2064 r^4 R^5 - 1216 l^2 r R^6 + 3264 r^3 R^6 - 64 l^2 R^7 + 2816 r^2 R^7 + 1024 r R^8\big)\}$$

$$\{X33,\ \text{PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES},$$
$$X49,\ \text{CENTER OF SINE-TRIPLE-ANGLE CIRCLE},$$
$$-\frac{1}{\big(2 l^2 - 2 r^2 - 8 r R - 7 R^2\big)^2 \big(l^2 - r^2 - 2 r R - 4 R^2\big)^2} R \big(8 l^8 r - 40 l^6 r^3 + 56 l^4 r^5 - 24 l^2 r^7 + l^8 R - 120 l^6 r^2 R + 342 l^4 r^4 R - 232 l^2 r^6 R + 9 r^8 R - 128 l^6 r R^2 + 1028 l^4 r^3 R^2 - 1184 l^2 r^5 R^2 + 156 r^7 R^2 - 12 l^6 R^3 + 1380 l^4 r^2 R^3 - 3596 l^2 r^4 R^3 + 1108 r^6 R^3 + 740 l^4 r R^4 - 6108 l^2 r^3 R^4 + 4152 r^5 R^4 + 47 l^4 R^5 - 5218 l^2 r^2 R^5 + 8803 r^4 R^5 - 1820 l^2 r R^6 + 10\,492 r^3 R^6 - 56 l^2 R^7 + 6468 r^2 R^7 + 1584 r R^8 - 16 R^9\big)\}$$

$$\{X33,\ \text{PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES},$$
$$X50,\ X(74)\text{-CEVA CONJUGATE OF } X(184),\ \big(4 r^2 R \big(6 l^{10} r - 44 l^8 r^3 + 56 l^6 r^5 - 20 l^4 r^7 + 2 l^2 r^9 - 89 l^8 r^2 R + 344 l^6 r^4 R - 230 l^4 r^6 R + 40 l^2 r^8 R - r^{10} R - 84 l^8 r R^2 + 928 l^6 r^3 R^2 - 1268 l^4 r^5 R^2 + 384 l^2 r^7 R^2 - 24 r^9 R^2 - 4 l^8 R^3 + 1074 l^6 r^2 R^3 - 3834 l^4 r^4 R^3 + 2150 l^2 r^6 R^3 - 250 r^8 R^3 + 538 l^6 r R^4 - 6300 l^4 r^3 R^4 + 7306 l^2 r^5 R^4 - 1480 r^7 R^4 + 40 l^6 R^5 - 5237 l^4 r^2 R^5 + 15\,054 l^2 r^4 R^5 - 5473 r^6 R^5 - 1884 l^4 r R^6 + 18\,204 l^2 r^3 R^6 - 13\,072 r^5 R^6 - 132 l^4 R^7 + 11\,868 l^2 r^2 R^7 - 20\,100 r^4 R^7 + 3360 l^2 r R^8 - 19\,120 r^3 R^8 + 144 l^2 R^9 - 10\,176 r^2 R^9 - 2304 r R^{10}\big)\big) \big/ \big(\big(l^2 - r^2 - 2 r R - 4 R^2\big)^2 \big(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 3 l^2 R^2 + 19 r^2 R^2 + 12 r R^3\big)^2\big)\}$$

$$\{X33,\ \text{PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES},\ X51,\ \text{CENTROID OF ORTHIC TRIANGLE},$$
$$-\big(\big(l^8 + 16 l^6 r^2 - 34 l^4 r^4 + 16 l^2 r^6 + r^8 - 36 l^6 r R - 44 l^4 r^3 R + 68 l^2 r^5 R + 12 r^7 R - 12 l^6 R^2 + 48 l^4 r^2 R^2 + 100 l^2 r^4 R^2 + 40 r^6 R^2 + 352 l^4 r R^3 - 32 r^5 R^3 + 48 l^4 R^4 - 640 l^2 r^2 R^4 - 368 r^4 R^4 - 1088 l^2 r R^5 - 320 r^3 R^5 - 64 l^2 R^6 + 768 r^2 R^6 + 1024 r R^7\big) \big/ \big(36 R^2 \big(-l^2 + r^2 + 2 r R + 4 R^2\big)^2\big)\big)\}$$

$$\{X33,\ \text{PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES},\ X52,\ \text{ORTHOCENTER OF ORTHIC TRIANGLE},$$
$$\big(l^8 - 16 l^6 r^2 + 30 l^4 r^4 - 16 l^2 r^6 + r^8 - 4 l^6 r R + 84 l^4 r^3 R - 92 l^2 r^5 R + 12 r^7 R - 12 l^6 R^2 + 136 l^4 r^2 R^2 - 268 l^2 r^4 R^2 + 64 r^6 R^2 + 32 l^4 r R^3 - 432 l^2 r^3 R^3 + 208 r^5 R^3 + 52 l^4 R^4 - 360 l^2 r^2 R^4 + 436 r^4 R^4 - 80 l^2 r R^5 + 528 r^3 R^5 - 96 l^2 R^6 + 304 r^2 R^6 + 64 r R^7 + 64 R^8\big) \big/ \big(4 R^2 \big(-l^2 + r^2 + 2 r R + 4 R^2\big)^2\big)\}$$

$$\{X33,\ \text{PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES},$$
$$X53,\ \text{SYMMEDIAN POINT OF ORTHIC TRIANGLE},$$
$$-\big(\big(4 r^2 (1 - r - 2 R)^2 (1 + r + 2 R)^2 \big(2 l^6 r^2 - 12 l^4 r^4 + 2 l^2 r^6 + 2 l^6 r R - 28 l^4 r^3 R + 18 l^2 r^5 R - 11 l^4 r^2 R^2 + 50 l^2 r^4 R^2 + r^6 R^2 + 12 l^4 r R^3 + 4 l^2 r^3 R^3 + 16 r^5 R^3 + 4 l^4 R^4 - 156 l^2 r^2 R^4 + 100 r^4 R^4 - 160 l^2 r R^5 + 304 r^3 R^5 - 16 l^2 R^6 + 448 r^2 R^6 + 256 r R^7\big)\big) \big/ \big(\big(l^2 - r^2 - 2 r R - 4 R^2\big)^2 \big(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 4 l^2 R^2 + 20 r^2 R^2 + 16 r R^3\big)^2\big)\big)\}$$

$$\left\{\text{X33, PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES, X54, KosnitaPoint}, -\frac{1}{\left(2 l^2-2 r^2-8 r R-5 R^2\right)^2 \left(l^2-r^2-2 r R-4 R^2\right)^2} R \left(8 l^8 r-40 l^6 r^3+56 l^4 r^5-24 l^2 r^7-116 l^6 r^2 R+340 l^4 r^4 R-236 l^2 r^6 R+12 r^8 R-108 l^6 r R^2+1000 l^4 r^3 R^2-1220 l^2 r^5 R^2+200 r^7 R^2+l^6 R^3+1227 l^4 r^2 R^3-3649 l^2 r^4 R^3+1349 r^6 R^3+532 l^4 r R^4-5768 l^2 r^3 R^4+4724 r^5 R^4-12 l^4 R^5-4264 l^2 r^2 R^5+9140 r^4 R^5-1120 l^2 r R^6+9568 r^3 R^6+48 l^2 R^7+4848 r^2 R^7+832 r R^8-64 R^9\right)\right\}$$

$$\left\{\text{X33, PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES, X55, INSIMILICENTER(CIRCUMCIRCLE, INCIRCLE)}, -\frac{r^2 R \left(4 l^4 r-4 l^2 r^3+l^4 R-18 l^2 r^2 R+r^4 R-36 l^2 r R^2+12 r^3 R^2-4 l^2 R^3+48 r^2 R^3+64 r R^4\right)}{(r+R)^2 \left(-l^2+r^2+2 r R+4 R^2\right)^2}\right\}$$

$$\left\{\text{X33, PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES, X56, EXSIMILICENTER(CIRCUMCIRCLE, INCIRCLE)}, -\frac{r^2 R \left(4 l^4 r-4 l^2 r^3-3 l^4 R-18 l^2 r^2 R+5 r^4 R-20 l^2 r R^2+44 r^3 R^2+28 l^2 R^3+64 r^2 R^3-64 R^5\right)}{(r-R)^2 \left(-l^2+r^2+2 r R+4 R^2\right)^2}\right\}$$

$$\left\{\text{X33, PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES, X57, ISOGONAL CONJUGATE OF X(9)}, -\frac{4 r^2 R \left(-3 l^2+r^2+8 r R+16 R^2\right) \left(-l^2 r+r^3+l^2 R+2 r^2 R-4 R^3\right)}{(r-2 R)^2 \left(-l^2+r^2+2 r R+4 R^2\right)^2}\right\}$$

$$\left\{\text{X33, PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES, X58, ISOGONAL CONJUGATE OF X(10)}, \left(16 r^2 R \left(l^6 r-4 l^4 r^3+3 l^2 r^5-9 l^4 r^2 R+17 l^2 r^4 R-2 r^6 R-11 l^4 r R^2+54 l^2 r^3 R^2-23 r^5 R^2-l^4 R^3+77 l^2 r^2 R^3-94 r^4 R^3+48 l^2 r R^4-184 r^3 R^4+4 l^2 R^5-172 r^2 R^5-64 r R^6\right)\right) / \left(\left(l^2-3 r^2-4 r R\right)^2 \left(l^2-r^2-2 r R-4 R^2\right)^2\right)\right\}$$

$$\left\{\text{X33, PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES, X59, ISOGONAL CONJUGATE OF X(11)}, -\frac{1}{(2 r-R) \left(-l^2+r^2+2 r R+4 R^2\right)^2 \left(-l^2+r^2+5 r R+4 R^2\right)^2} r^2 R \left(4 l^8-20 l^6 r^2+28 l^4 r^4-12 l^2 r^6-62 l^6 r R+186 l^4 r^3 R-130 l^2 r^5 R+6 r^7 R-63 l^6 R^2+595 l^4 r^2 R^2-721 l^2 r^4 R^2+109 r^6 R^2+732 l^4 r R^3-2304 l^2 r^3 R^3+804 r^5 R^3+376 l^4 R^4-3832 l^2 r^2 R^4+3072 r^4 R^4-2896 l^2 r R^5+6416 r^3 R^5-1008 l^2 R^6+7104 r^2 R^6+3840 r R^7+1024 R^8\right)\right\}$$

$$\left\{\text{X33, PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES, X60, ISOGONAL CONJUGATE OF X(12)}, -\frac{1}{\left(l^2-r^2-2 r R-4 R^2\right)^2 \left(2 l^2 r-2 r^3+l^2 R-7 r^2 R-7 r R^2\right)^2} r^2 R \left(8 l^8 r-40 l^6 r^3+56 l^4 r^5-24 l^2 r^7+4 l^8 R-128 l^6 r^2 R+336 l^4 r^4 R-224 l^2 r^6 R+12 r^8 R-152 l^6 r R^2+996 l^4 r^3 R^2-1128 l^2 r^5 R^2+188 r^7 R^2-37 l^6 R^3+1465 l^4 r^2 R^3-3403 l^2 r^4 R^3+1223 r^6 R^3+932 l^4 r R^4-6048 l^2 r^3 R^4+4348 r^5 R^4+120 l^4 R^5-5816 l^2 r^2 R^5+9152 r^4 R^5-2448 l^2 r R^6+11440 r^3 R^6-144 l^2 R^7+7872 r^2 R^7+2304 r R^8\right)\right\}$$

$$\left\{\text{X33, PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES, X61, ISOGONAL CONJUGATE OF X(17)}, -\frac{1}{\left(3 l^2+2 \sqrt{3}\, l r-3 r^2-12 r R\right)^2 \left(l^2-r^2-2 r R-4 R^2\right)^2} 12 r^2 R \left(2 \sqrt{3}\, l^7-2 l^6 r-8 \sqrt{3}\, l^5 r^2+8 l^4 r^3+6 \sqrt{3}\, l^3 r^4-6 l^2 r^5-l^6 R-24 \sqrt{3}\, l^5 r R+21 l^4 r^2 R+36 \sqrt{3}\, l^3 r^3 R-39 l^2 r^4 R-4 \sqrt{3}\, l r^5 R+3 r^6 R-16 \sqrt{3}\, l^5 R^2+56 l^4 r R^2+128 \sqrt{3}\, l^3 r^2 R^2-152 l^2 r^3 R^2-48 \sqrt{3}\, l r^4 R^2+48 r^5 R^2+20 l^4 R^3+160 \sqrt{3}\, l^3 r R^3-400 l^2 r^2 R^3-208 \sqrt{3}\, l r^3 R^3+300 r^4 R^3+32 \sqrt{3}\, l^3 R^4-432 l^2 r R^4-384 \sqrt{3}\, l r^2 R^4+912 r^3 R^4-64 l^2 R^5-256 \sqrt{3}\, l r R^5+1344 r^2 R^5+768 r R^6\right)\right\}$$

$$\Big\{\text{X33, PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES, X62,}$$

$$\text{ISOGONAL CONJUGATE OF X(18)}, -\frac{1}{\left(3 l^2-2\sqrt{3}\, l r-3 r^2-12 r R\right)^2 \left(l^2-r^2-2 r R-4 R^2\right)^2}$$

$$12 r^2 R \Big(-2\sqrt{3}\, l^7-2 l^6 r+8\sqrt{3}\, l^5 r^2+8 l^4 r^3-6\sqrt{3}\, l^3 r^4-6 l^2 r^5-l^6 R+$$
$$24\sqrt{3}\, l^5 r R+21 l^4 r^2 R-36\sqrt{3}\, l^3 r^3 R-39 l^2 r^4 R+4\sqrt{3}\, l r^5 R+3 r^6 R+$$
$$16\sqrt{3}\, l^5 R^2+56 l^4 r R^2-128\sqrt{3}\, l^3 r^2 R^2-152 l^2 r^3 R^2+48\sqrt{3}\, l r^4 R^2+48 r^5 R^2+$$
$$20 l^4 R^3-160\sqrt{3}\, l^3 r R^3-400 l^2 r^2 R^3+208\sqrt{3}\, l r^3 R^3+300 r^4 R^3-32\sqrt{3}\, l^3 R^4-$$
$$432 l^2 r R^4+384\sqrt{3}\, l r^2 R^4+912 r^3 R^4-64 l^2 R^5+256\sqrt{3}\, l r R^5+1344 r^2 R^5+768 r R^6\Big)\Big\}$$

$$\Big\{\text{X33, PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES, X63, ISOGONAL CONJUGATE OF X(19)},$$
$$-\Big(\Big(R\Big(-2 l^6 r+14 l^4 r^3-14 l^2 r^5+2 r^7-l^6 R+33 l^4 r^2 R-83 l^2 r^4 R+27 r^6 R+$$
$$36 l^4 r R^2-232 l^2 r^3 R^2+148 r^5 R^2+8 l^4 R^3-296 l^2 r^2 R^3+432 r^4 R^3-176 l^2 r R^4+$$
$$720 r^3 R^4-16 l^2 R^5+640 r^2 R^5+256 r R^6\Big)\Big)\Big/\Big((r+R)^2\left(-l^2+r^2+2 r R+4 R^2\right)^2\Big)\Big)\Big\}$$

$$\Big\{\text{X33, PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES, X64, ISOGONAL CONJUGATE OF X(20)},$$
$$-\Big(\Big(4 R\left(l^2-2 r R-4 R^2\right)^2\Big(2 l^4 r-4 l^2 r^3+2 r^5-3 l^4 R-6 l^2 r^2 R+9 r^4 R+4 l^2 r R^2+12 r^3 R^2+28 l^2 R^3-$$
$$16 r^2 R^3-64 r R^4-64 R^5\Big)\Big)\Big/\Big((1-r-2 R)^2(1+r+2 R)^2\left(l^2-r^2-2 r R-4 R^2\right)^2\Big)\Big)\Big\}$$

$$\Big\{\text{X33, PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES,}$$

$$\text{X65, ORTHOCENTER OF THE INTOUCH TRIANGLE}, \frac{1}{R\left(-l^2+r^2+2 r R+4 R^2\right)^2} r^2$$
$$\left(-2 l^4 r+4 l^2 r^3-2 r^5+3 l^4 R+6 l^2 r^2 R-9 r^4 R-4 l^2 r R^2-12 r^3 R^2-28 l^2 R^3+16 r^2 R^3+64 r R^4+64 R^5\right)\Big\}$$

$$\Big\{\text{X33, PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES, X66, ISOGONAL CONJUGATE OF X(22)},$$
$$\Big(6 l^{12} r^2-32 l^{10} r^4+70 l^8 r^6-80 l^6 r^8+50 l^4 r^{10}-16 l^2 r^{12}+2 r^{14}-124 l^{10} r^3 R+548 l^8 r^5 R-952 l^6 r^7 R+$$
$$808 l^4 r^9 R-332 l^2 r^{11} R+52 r^{13} R-l^{12} R^2-102 l^{10} r^2 R^2+1529 l^8 r^4 R^2-4564 l^6 r^6 R^2+$$
$$5553 l^4 r^8 R^2-3014 l^2 r^{10} R^2+599 r^{12} R^2+28 l^{10} r R^3+1716 l^8 r^3 R^3-11144 l^6 r^5 R^3+21064 l^4 r^7 R^3-$$
$$15700 l^2 r^9 R^3+4036 r^{11} R^3+12 l^{10} R^4+400 l^8 r^2 R^4-14104 l^6 r^4 R^4+47712 l^4 r^6 R^4-$$
$$51700 l^2 r^8 R^4+17680 r^{10} R^4-304 l^8 r R^5-7520 l^6 r^3 R^5+64320 l^4 r^5 R^5-111392 l^2 r^7 R^5+$$
$$52848 r^9 R^5-48 l^8 R^6+352 l^6 r^2 R^6+46480 l^4 r^4 R^6-155648 l^2 r^6 R^6+109632 r^8 R^6+1088 l^6 r R^7+$$
$$11072 l^4 r^3 R^7-131968 l^2 r^5 R^7+156160 r^7 R^7+64 l^6 R^8-3904 l^4 r^2 R^8-54656 l^2 r^4 R^8+$$
$$145344 r^6 R^8-1280 l^4 r R^9-768 l^2 r^3 R^9+77056 r^5 R^9+4352 l^2 r^2 R^{10}+13312 r^4 R^{10}-4096 r^3 R^{11}\Big)\Big/$$
$$\Big((1-r-2 R)^2(1+r+2 R)^2\left(l^2-r^2-4 r R\right)^2\left(l^2-r^2-2 r R-4 R^2\right)^2\Big)\Big\}$$

$$\Big\{\text{X33, PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES, X67, ISOGONAL CONJUGATE OF X(23)},$$
$$\Big(l^{12}+10 l^{10} r^2-53 l^8 r^4+92 l^6 r^6-73 l^4 r^8+26 l^2 r^{10}-3 r^{12}-24 l^{10} r R-140 l^8 r^3 R+632 l^6 r^5 R-$$
$$816 l^4 r^7 R+416 l^2 r^9 R-68 r^{11} R-12 l^{10} R^2+28 l^8 r^2 R^2+1512 l^6 r^4 R^2-3720 l^4 r^6 R^2+$$
$$2852 l^2 r^8 R^2-660 r^{10} R^2+264 l^8 r R^3+1080 l^6 r^3 R^3-8464 l^4 r^5 R^3+10712 l^2 r^7 R^3-$$
$$3592 r^9 R^3+48 l^8 R^4-800 l^6 r^2 R^4-9276 l^4 r^4 R^4+23624 l^2 r^6 R^4-12060 r^8 R^4-960 l^6 r R^5-$$
$$2544 l^4 r^3 R^5+30032 l^2 r^5 R^5-25824 r^7 R^5-64 l^6 R^6+2640 l^4 r^2 R^6+18576 l^2 r^4 R^6-$$
$$34800 r^6 R^6+1152 l^4 r R^7+1536 l^2 r^3 R^7-26944 r^5 R^7-2112 l^2 r^2 R^8-8448 r^4 R^8+1024 r^3 R^9\Big)\Big/$$
$$\Big(\left(l^2-r^2-4 r R\right)^2\left(2 l^2-2 r^2-8 r R-9 R^2\right)\left(l^2-r^2-2 r R-4 R^2\right)^2\Big)\Big\}$$

$$\Big\{\text{X33, PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES,}$$

$$\text{X68, PRASOLOV POINT}, \frac{1}{(1-r-2 R)^2(1+r+2 R)^2\left(l^2-r^2-2 r R-4 R^2\right)^2}$$
$$\Big(6 l^8 r^2-20 l^6 r^4+24 l^4 r^6-12 l^2 r^8+2 r^{10}-76 l^6 r^3 R+188 l^4 r^5 R-148 l^2 r^7 R+36 r^9 R+l^8 R^2-$$
$$104 l^6 r^2 R^2+614 l^4 r^4 R^2-792 l^2 r^6 R^2+281 r^8 R^2-12 l^6 r R^3+972 l^4 r^3 R^3-2340 l^2 r^5 R^3+1252 r^7 R^3-$$
$$12 l^6 R^4+696 l^4 r^2 R^4-4092 l^2 r^4 R^4+3520 r^6 R^4+112 l^4 r R^5-4096 l^2 r^3 R^5+6480 r^5 R^5+52 l^4 R^6-$$
$$2040 l^2 r^2 R^6+7748 r^4 R^6-336 l^2 r R^7+5648 r^3 R^7-96 l^2 R^8+2160 r^2 R^8+320 r R^9+64 R^{10}\Big)\Big\}$$

$$\Big\{\text{X33, PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES, X69,}$$

$$\text{SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE, } \frac{1}{\left(l^2-r^2-4\,r\,R\right)^2\left(l^2-r^2-2\,r\,R-4\,R^2\right)^2}$$

$$\Big(l^{10}+5\,l^8\,r^2-22\,l^6\,r^4+26\,l^4\,r^6-11\,l^2\,r^8+r^{10}-20\,l^8\,r\,R-40\,l^6\,r^3\,R+160\,l^4\,r^5\,R-120\,l^2\,r^7\,R+20\,r^9\,R-8\,l^8\,R^2+24\,l^6\,r^2\,R^2+392\,l^4\,r^4\,R^2-568\,l^2\,r^6\,R^2+160\,r^8\,R^2+144\,l^6\,r\,R^3+240\,l^4\,r^3\,R^3-1296\,l^2\,r^5\,R^3+656\,r^7\,R^3+16\,l^6\,R^4-160\,l^4\,r^2\,R^4-1520\,l^2\,r^4\,R^4+1472\,r^6\,R^4-256\,l^4\,r\,R^5-512\,l^2\,r^3\,R^5+1792\,r^5\,R^5+1024\,r^4\,R^6\Big)\Big\}$$

$$\Big\{\text{X33, PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES, X70, ISOGONAL CONJUGATE OF X(26),}$$

$$\Big(6\,l^{12}\,r^2-32\,l^{10}\,r^4+70\,l^8\,r^6-80\,l^6\,r^8+50\,l^4\,r^{10}-16\,l^2\,r^{12}+2\,r^{14}-124\,l^{10}\,r^3\,R+548\,l^8\,r^5\,R-952\,l^6\,r^7\,R+808\,l^4\,r^9\,R-332\,l^2\,r^{11}\,R+52\,r^{13}\,R-128\,l^{10}\,r^2\,R^2+1632\,l^8\,r^4\,R^2-4736\,l^6\,r^6\,R^2+5696\,l^4\,r^8\,R^2-3072\,l^2\,r^{10}\,R^2+608\,r^{12}\,R^2+4\,l^{10}\,r\,R^3+2176\,l^8\,r^3\,R^3-12\,576\,l^6\,r^5\,R^3+22\,840\,l^4\,r^7\,R^3-16\,676\,l^2\,r^9\,R^3+4232\,r^{11}\,R^3-l^{10}\,R^4+1045\,l^8\,r^2\,R^4-18\,702\,l^6\,r^4\,R^4+56\,902\,l^4\,r^6\,R^4-58\,801\,l^2\,r^8\,R^4+19\,557\,r^{10}\,R^4-44\,l^8\,r\,R^5-14\,492\,l^6\,r^3\,R^5+89\,844\,l^4\,r^5\,R^5-140\,644\,l^2\,r^7\,R^5+63\,288\,r^9\,R^5+14\,l^8\,R^6-4280\,l^6\,r^2\,R^6+86\,892\,l^4\,r^4\,R^6-230\,504\,l^2\,r^6\,R^6+147\,110\,r^8\,R^6+156\,l^6\,r\,R^7+45\,920\,l^4\,r^3\,R^7-253\,900\,l^2\,r^5\,R^7+247\,120\,r^7\,R^7-73\,l^6\,R^8+9461\,l^4\,r^2\,R^8-177\,399\,l^2\,r^4\,R^8+296\,379\,r^6\,R^8-148\,l^4\,r\,R^9-69\,144\,l^2\,r^3\,R^9+245\,164\,r^5\,R^9+172\,l^4\,R^{10}-10\,904\,l^2\,r^2\,R^{10}+130\,604\,r^4\,R^{10}-160\,l^2\,r\,R^{11}+39\,328\,r^3\,R^{11}-176\,l^2\,R^{12}+5136\,r^2\,R^{12}+192\,r\,R^{13}+64\,R^{14}\Big)\Big/\Big(\left(l^2-r^2-2\,r\,R-4\,R^2\right)^2\left(l^4-2\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-6\,l^2\,R^2+22\,r^2\,R^2+24\,r\,R^3+7\,R^4\right)^2\Big)\Big\}$$

$$\Big\{\text{X33, PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES, X71,}$$

$$\text{ISOGONAL CONJUGATE OF X(27), } -\frac{1}{\left(l^2-r^2-2\,r\,R-4\,R^2\right)^2\left(l^2+r^2+6\,r\,R+8\,R^2\right)^2}$$

$$4\,R\,\Big(2\,l^8\,r+2\,l^6\,r^3-2\,l^4\,r^5-2\,l^2\,r^7-3\,l^8\,R+16\,l^6\,r^2\,R-18\,l^4\,r^4\,R-20\,l^2\,r^6\,R+r^8\,R+20\,l^6\,r\,R^2-76\,l^4\,r^3\,R^2-92\,l^2\,r^5\,R^2+20\,r^7\,R^2+20\,l^6\,R^3-160\,l^4\,r^2\,R^3-252\,l^2\,r^4\,R^3+168\,r^6\,R^3-128\,l^4\,r\,R^4-416\,l^2\,r^3\,R^4+768\,r^5\,R^4-16\,l^4\,R^5-384\,l^2\,r^2\,R^5+2064\,r^4\,R^5-192\,l^2\,r\,R^6+3264\,r^3\,R^6-64\,l^2\,R^7+2816\,r^2\,R^7+1024\,r\,R^8\Big)\Big\}$$

$$\Big\{\text{X33, PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES,}$$

$$\text{X72, ISOGONAL CONJUGATE OF X(28), } -\frac{1}{R\left(-l^2+r^2+2\,r\,R+4\,R^2\right)^2}$$

$$\Big(-l^6\,r+3\,l^4\,r^3-3\,l^2\,r^5+r^7-l^6\,R+16\,l^4\,r^2\,R-25\,l^2\,r^4\,R+10\,r^6\,R+28\,l^4\,r\,R^2-88\,l^2\,r^3\,R^2+52\,r^5\,R^2+8\,l^4\,R^3-176\,l^2\,r^2\,R^3+164\,r^4\,R^3-160\,l^2\,r\,R^4+336\,r^3\,R^4-16\,l^2\,R^5+432\,r^2\,R^5+256\,r\,R^6\Big)\Big\}$$

$$\Big\{\text{X33, PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES, X73,}$$

$$\text{CROSSPOINT OF INCENTER AND CIRCUMCENTER, } -\frac{16\,r^2\,R^2\left(l^2-3\,r^2-4\,r\,R-4\,R^2\right)\left(l^2-2\,r\,R-4\,R^2\right)^2}{\left(l^2-r^2-2\,r\,R-4\,R^2\right)^2\left(l^2+r^2-2\,r\,R-4\,R^2\right)^2}\Big\}$$

$$\Big\{\text{X33, PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES,}$$

$$\text{X74, ISOGONAL CONJUGATE OF EULER INFINITY POINT,}$$

$$-\Big(\Big(R\,\Big(12\,l^6\,r-16\,l^4\,r^3+4\,l^2\,r^5-9\,l^6\,R-75\,l^4\,r^2\,R+73\,l^2\,r^4\,R-5\,r^6\,R-84\,l^4\,r\,R^2+296\,l^2\,r^3\,R^2-84\,r^5\,R^2+108\,l^4\,R^3+488\,l^2\,r^2\,R^3-404\,r^4\,R^3+96\,l^2\,r\,R^4-864\,r^3\,R^4-432\,l^2\,R^5-752\,r^2\,R^5+192\,r\,R^6+576\,R^7\Big)\Big)\Big/\Big(\left(2\,l^2-2\,r^2-8\,r\,R-9\,R^2\right)\left(l^2-r^2-2\,r\,R-4\,R^2\right)^2\Big)\Big)\Big\}$$

$$\Big\{\text{X33, PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES, X75,}$$

$$\text{ISOTOMIC CONJUGATE OF INCENTER, } \frac{1}{\left(l^2+r^2+4\,r\,R\right)^2\left(l^2-r^2-2\,r\,R-4\,R^2\right)^2}$$

$$\Big(l^{10}+l^8\,r^2-2\,l^6\,r^4-2\,l^4\,r^6+l^2\,r^8+r^{10}-20\,l^8\,r\,R+40\,l^6\,r^3\,R-64\,l^4\,r^5\,R+24\,l^2\,r^7\,R+20\,r^9\,R-8\,l^8\,R^2+56\,l^6\,r^2\,R^2-184\,l^4\,r^4\,R^2+104\,l^2\,r^6\,R^2+160\,r^8\,R^2+144\,l^6\,r\,R^3-336\,l^4\,r^3\,R^3+304\,l^2\,r^5\,R^3+656\,r^7\,R^3+16\,l^6\,R^4-224\,l^4\,r^2\,R^4+528\,l^2\,r^4\,R^4+1472\,r^6\,R^4-256\,l^4\,r\,R^5+512\,l^2\,r^3\,R^5+1792\,r^5\,R^5+1024\,r^4\,R^6\Big)\Big\}$$

{X33, PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES, X76, 3rd BROCARD POINT,

$$\left(l^{14}+3 l^{12} r^2+l^{10} r^4-5 l^8 r^6-5 l^6 r^8+l^4 r^{10}+3 l^2 r^{12}+r^{14}-28 l^{12} r R-32 l^{10} r^3 R+20 l^8 r^5 R-20 l^4 r^9 R+32 l^2 r^{11} R+28 r^{13} R-8 l^{12} R^2+216 l^{10} r^2 R^2+224 l^8 r^4 R^2-432 l^6 r^6 R^2+216 l^4 r^8 R^2-40 l^2 r^{10} R^2+336 r^{12} R^2+208 l^{10} r R^3-624 l^8 r^3 R^3-1504 l^6 r^5 R^3+2464 l^4 r^7 R^3-1776 l^2 r^9 R^3+2256 r^{11} R^3+16 l^{10} R^4-1472 l^8 r^2 R^4-416 l^6 r^4 R^4+7296 l^4 r^6 R^4-9072 l^2 r^8 R^4+9280 r^{10} R^4-384 l^8 r R^5+3712 l^6 r^3 R^5+7552 l^4 r^5 R^5-20608 l^2 r^7 R^5+24064 r^9 R^5+2304 l^6 r^2 R^6-512 l^4 r^4 R^6-22272 l^2 r^6 R^6+38912 r^8 R^6-4096 l^4 r^3 R^7-8192 l^2 r^5 R^7+36864 r^7 R^7+16384 r^6 R^8\right) \Big/ \left(\left(l^2-r^2-2 r R-4 R^2\right)^2 \left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)^2\right)\}$$

{X33, PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES, X77, ISOGONAL CONJUGATE OF X(33),

$$-\left(\left(r^2 R^2 \left(15 l^6-35 l^4 r^2+13 l^2 r^4-r^6-108 l^4 r R+128 l^2 r^3 R-20 r^5 R-184 l^4 R^2+504 l^2 r^2 R^2-160 r^4 R^2+880 l^2 r R^3-656 r^3 R^3+752 l^2 R^4-1472 r^2 R^4-1792 r R^5-1024 R^6\right)\right) \Big/ \left(\left(l^2-r^2-2 r R-4 R^2\right)^2 \left(l^2-r R-4 R^2\right)^2\right)\right)\}$$

{X33, PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES, X78, ISOGONAL CONJUGATE OF X(34),

$$\left(R^2 \left(l^6+3 l^4 r^2+3 l^2 r^4+r^6-20 l^4 r R-12 r^5 R-8 l^4 R^2+40 l^2 r^2 R^2-32 r^4 R^2+144 l^2 r R^3-48 r^3 R^3+16 l^2 R^4-192 r^2 R^4-256 r R^5\right)\right) \Big/ \left((r-R)^2 \left(-l^2+r^2+2 r R+4 R^2\right)^2\right)\}$$

{X33, PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES,
X79, ISOGONAL CONJUGATE OF X(35),

$$\left(4 r^2 \left(-2 l^6+6 l^4 r^2-6 l^2 r^4+2 r^6+22 l^4 r R-48 l^2 r^3 R+26 r^5 R+34 l^4 R^2-158 l^2 r^2 R^2+140 r^4 R^2-252 l^2 r R^3+408 r^3 R^3-185 l^2 R^4+699 r^2 R^4+692 r R^5+324 R^6\right)\right) \Big/ \left((2 r+3 R)^2 \left(-l^2+r^2+2 r R+4 R^2\right)^2\right)\}$$

{X33, PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES,
X80, REFLECTION OF INCENTER IN FEUERBACH POINT,

$$\frac{4 r^2 \left(2 l^4 r-4 l^2 r^3+2 r^5-14 l^2 r^2 R+14 r^4 R-18 l^2 r R^2+42 r^3 R^2+l^2 R^3+61 r^2 R^3+36 r R^4-4 R^5\right)}{(2 r-R) \left(-l^2+r^2+2 r R+4 R^2\right)^2}\}$$

{X33, PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES,
X81, CEVAPOINT OF INCENTER AND SYMMEDIAN POINT,

$$\left(r^2 R \left(6 l^6 r-14 l^4 r^3+10 l^2 r^5-2 r^7-3 l^6 R-29 l^4 r^2 R+59 l^2 r^4 R-27 r^6 R-52 l^4 r R^2+200 l^2 r^3 R^2-148 r^5 R^2+8 l^4 R^3+312 l^2 r^2 R^3-432 r^4 R^3+240 l^2 r R^4-720 r^3 R^4+16 l^2 R^5-640 r^2 R^5-256 r R^6\right)\right) \Big/ \left(\left(l^2-r^2-r R\right)^2 \left(l^2-r^2-2 r R-4 R^2\right)^2\right)\}$$

{X33, PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES, X82, ISOGONAL CONJUGATE OF X(38),

$$\left(r^2 R \left(12 l^{10} r-92 l^8 r^3+200 l^6 r^5-168 l^4 r^7+44 l^2 r^9+4 r^{11}-3 l^{10} R-203 l^8 r^2 R+1110 l^6 r^4 R-1530 l^4 r^6 R+557 l^2 r^8 R+69 r^{10} R-52 l^8 r R^2+2088 l^6 r^3 R^2-5728 l^4 r^5 R^2+3288 l^2 r^7 R^2+404 r^9 R^2+8 l^8 R^3+1352 l^6 r^2 R^3-11400 l^4 r^4 R^3+12312 l^2 r^6 R^3+416 r^8 R^3+208 l^6 r R^4-11664 l^4 r^3 R^4+30064 l^2 r^5 R^4-5552 r^7 R^4+16 l^6 R^5-4320 l^4 r^2 R^5+42000 l^2 r^4 R^5-27200 r^6 R^5-512 l^4 r R^6+26368 l^2 r^3 R^6-53504 r^5 R^6+5120 l^2 r^2 R^7-48128 r^4 R^7-16384 r^3 R^8\right)\right) \Big/ \left(\left(l^2-r^2-2 r R-4 R^2\right)^2 \left(l^4-4 l^2 r^2+3 r^4-9 l^2 r R+19 r^3 R+28 r^2 R^2\right)^2\right)\}$$

{X33, PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES,
X83, CEVAPOINT OF CENTROID AND SYMMEDIAN POINT,

$$\left(l^{14}-5 l^{12} r^2+l^{10} r^4+19 l^8 r^6-5 l^6 r^8-23 l^4 r^{10}+3 l^2 r^{12}+9 r^{14}-44 l^{12} r R+256 l^{10} r^3 R-636 l^8 r^5 R+832 l^6 r^7 R-580 l^4 r^9 R-64 l^2 r^{11} R+236 r^{13} R-8 l^{12} R^2+728 l^{10} r^2 R^2-3008 l^8 r^4 R^2+5584 l^6 r^6 R^2-3944 l^4 r^8 R^2-1448 l^2 r^{10} R^2+2608 r^{12} R^2+336 l^{10} r R^3-7472 l^8 r^3 R^3+19616 l^6 r^5 R^3-17248 l^4 r^7 R^3-7664 l^2 r^9 R^3+15504 r^{11} R^3+16 l^{10} R^4-5184 l^8 r^2 R^4+46560 l^6 r^4 R^4-69888 l^4 r^6 R^4-752 l^2 r^8 R^4+51264 r^{10} R^4-640 l^8 r R^5+42880 l^6 r^3 R^5-178560 l^4 r^5 R^5+115328 l^2 r^7 R^5+78336 r^9 R^5+9472 l^6 r^2 R^6-197120 l^4 r^4 R^6+384256 l^2 r^6 R^6-34816 r^8 R^6-65536 l^4 r^3 R^7+487424 l^2 r^5 R^7-339968 r^7 R^7+212992 l^2 r^4 R^8-507904 r^6 R^8-262144 r^5 R^9\right) \Big/ \left(\left(l^2-r^2-2 r R-4 R^2\right)^2 \left(5 l^4-6 l^2 r^2+5 r^4-40 l^2 r R+40 r^3 R+80 r^2 R^2\right)^2\right)\}$$

$$\{X33,\ \text{PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES},\ X84,\ \text{ISOGONAL CONJUGATE OF } X(40),\ -\left(\left(4R\left(-l^6 r+4 l^4 r^3-3 l^2 r^5+l^6 R+2 l^4 r^2 R-10 l^2 r^4 R+r^6 R+4 l^4 r R^2-20 l^2 r^3 R^2+8 r^5 R^2-12 l^4 R^3+4 l^2 r^2 R^3+16 r^4 R^3+16 l^2 r R^4+48 l^2 R^5-48 r^2 R^5-64 r R^6-64 R^7\right)\right)\Big/\left(r^2\left(-l^2+r^2+2 r R+4 R^2\right)^2\right)\right)\}$$

$$\{X33,\ \text{PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES},\ X85,\ \text{ISOTOMIC CONJUGATE OF } X(9),\ \frac{1}{\left(l^2-r^2-2 r R-4 R^2\right)^2\left(l^2+r^2+8 r R+16 R^2\right)^2}\left(l^{10}+l^8 r^2-2 l^6 r^4-2 l^4 r^6+l^2 r^8+r^{10}-28 l^8 r R+56 l^6 r^3 R-64 l^4 r^5 R+8 l^2 r^7 R+28 r^9 R-8 l^8 R^2+168 l^6 r^2 R^2-296 l^4 r^4 R^2-72 l^2 r^6 R^2+336 r^8 R^2+208 l^6 r R^3-464 l^4 r^3 R^3-976 l^2 r^5 R^3+2256 r^7 R^3+16 l^6 R^4-224 l^4 r^2 R^4-3952 l^2 r^4 R^4+9280 r^6 R^4-384 l^4 r R^5-7296 l^2 r^3 R^5+24064 r^5 R^5-5888 l^2 r^2 R^6+38912 r^4 R^6+36864 r^3 R^7+16384 r^2 R^8\right)\}$$

$$\{X33,\ \text{PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES},\ X86,\ \text{CEVAPOINT OF INCENTER AND CENTROID},\ \frac{1}{\left(5 l^2+r^2+4 r R\right)^2\left(l^2-r^2-2 r R-4 R^2\right)^2}\left(l^{10}+l^8 r^2-2 l^6 r^4-2 l^4 r^6+l^2 r^8+r^{10}-20 l^8 r R+8 l^6 r^3 R-64 l^4 r^5 R+56 l^2 r^7 R+20 r^9 R-8 l^8 R^2-8 l^6 r^2 R^2-56 l^4 r^4 R^2+424 l^2 r^6 R^2+160 r^8 R^2+144 l^6 r R^3-144 l^4 r^3 R^3+1392 l^2 r^5 R^3+656 r^7 R^3+16 l^6 R^4+32 l^4 r^2 R^4+2064 l^2 r^4 R^4+1472 r^6 R^4-256 l^4 r R^5+1536 l^2 r^3 R^5+1792 r^5 R^5+1024 r^4 R^6\right)\}$$

$$\{X33,\ \text{PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES},\ X87,\ X(2)\text{-CROSS CONJUGATE OF } X(1),\ \left(4 r^2 R^2\left(3 l^{10}-13 l^8 r^2-2 l^6 r^4+38 l^4 r^6+15 l^2 r^8-9 r^{10}-76 l^8 r R+448 l^6 r^3 R-824 l^4 r^5 R+544 l^2 r^7 R-156 r^9 R-28 l^8 R^2+704 l^6 r^2 R^2-2264 l^4 r^4 R^2+2976 l^2 r^6 R^2-1196 r^8 R^2+704 l^6 r R^3-6400 l^4 r^3 R^3+9920 l^2 r^5 R^3-5504 r^7 R^3+64 l^6 R^4-5376 l^4 r^2 R^4+21824 l^2 r^4 R^4-16768 r^6 R^4-1536 l^4 r R^5+25088 l^2 r^3 R^5-32768 r^5 R^5+9216 l^2 r^2 R^6-35840 r^4 R^6-16384 r^3 R^7\right)\right)\Big/\left(\left(l^2-r^2-2 r R-4 R^2\right)^2\left(l^4+2 l^2 r^2+r^4-20 l^2 r R+12 r^3 R+32 r^2 R^2\right)^2\right)\}$$

$$\{X33,\ \text{PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES},\ X88,\ \text{ISOGONAL CONJUGATE OF } X(44),\ -\left(\left(r^2 R\left(30 l^6 r+90 l^4 r^3-174 l^2 r^5+54 r^7-5 l^6 R-699 l^4 r^2 R-3 l^2 r^4 R+387 r^6 R-172 l^4 r R^2+2568 l^2 r^3 R^2+36 r^5 R^2+56 l^4 R^3+5160 l^2 r^2 R^3-5040 r^4 R^3-432 l^2 r R^4-11952 r^3 R^4-144 l^2 R^5-8064 r^2 R^5+2304 r R^6\right)\right)\Big/\left(\left(l^2+3 r^2-15 r R\right)^2\left(l^2-r^2-2 r R-4 R^2\right)^2\right)\right)\}$$

$$\{X33,\ \text{PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES},\ X89,\ \text{ISOGONAL CONJUGATE OF } X(45),\ \left(r^2 R\left(84 l^6 r-468 l^4 r^3+492 l^2 r^5-108 r^7-7 l^6 R-549 l^4 r^2 R+2319 l^2 r^4 R-1251 r^6 R-884 l^4 r R^2+5232 l^2 r^3 R^2-5436 r^5 R^2-8 l^4 R^3+4152 l^2 r^2 R^3-11376 r^4 R^3+3024 l^2 r R^4-12240 r^3 R^4+144 l^2 R^5-5760 r^2 R^5-2304 r R^6\right)\right)\Big/\left(\left(2 l^2-6 r^2+3 r R\right)^2\left(l^2-r^2-2 r R-4 R^2\right)^2\right)\}$$

$$\{X33,\ \text{PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES},\ X90,\ X(3)\text{-CROSS CONJUGATE OF } X(1),\ \left(4 r^2 R\left(l^6 r-4 l^4 r^3+3 l^2 r^5-10 l^4 r^2 R+17 l^2 r^4 R-r^6 R-11 l^4 r R^2+52 l^2 r^3 R^2-13 r^5 R^2+76 l^2 r^2 R^3-64 r^4 R^3+44 l^2 r R^4-148 r^3 R^4-l^2 R^5-157 r^2 R^5-60 r R^6+4 R^7\right)\right)\Big/\left(\left(l^2-r^2-2 r R-4 R^2\right)^2\left(r^2+2 r R-R^2\right)^2\right)\}$$

$$\{X33,\ \text{PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES},\ X91,\ \text{ISOGONAL CONJUGATE OF } X(47),\ \frac{1}{\left(l^2-r^2-2 r R-4 R^2\right)^2\left(l^2 r+r^3-l^2 R+3 r^2 R+2 r R^2+2 R^3\right)^2}\ r^2\left(l^{10}+l^8 r^2-2 l^6 r^4-2 l^4 r^6+l^2 r^8+r^{10}-24 l^8 r R+40 l^6 r^3 R-56 l^4 r^5 R+24 l^2 r^7 R+16 r^9 R-12 l^8 R^2+136 l^6 r^2 R^2-256 l^4 r^4 R^2+152 l^2 r^6 R^2+108 r^8 R^2+256 l^6 r R^3-688 l^4 r^3 R^3+544 l^2 r^5 R^3+400 r^7 R^3+48 l^6 R^4-1056 l^4 r^2 R^4+1248 l^2 r^4 R^4+880 r^6 R^4-912 l^4 r R^5+2016 l^2 r^3 R^5+1136 r^5 R^5-64 l^4 R^6+2144 l^2 r^2 R^6+672 r^4 R^6+1216 l^2 r R^7-320 r^3 R^7-16 l^2 R^8-848 r^2 R^8-448 r R^9+64 R^{10}\right)\}$$

$$\{X33,\ \text{PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES},$$
$$X92,\ \text{CEVAPOINT OF INCENTER AND CLAWSON POINT},$$
$$\Big((l-r-2R)^2(l+r+2R)^2\big(l^6+3l^4r^2+3l^2r^4+r^6-20l^4rR+16l^2r^3R+4r^5R-8l^4R^2+24l^2r^2R^2-16r^4R^2+144l^2rR^3-80r^3R^3+16l^2R^4-128r^2R^4-256rR^5\big)\Big)\Big/\Big(\big(l^2+r^2-4R^2\big)^2\big(l^2-r^2-2rR-4R^2\big)^2\Big)\}$$

$$\{X33,\ \text{PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES},$$
$$X93,\ \text{ISOGONAL CONJUGATE OF X(49)},\ \Big((l-r-2R)^2(l+r+2R)^2\big(l^{10}+5l^8r^2+10l^6r^4+10l^4r^6+5l^2r^8+r^{10}-20l^8rR-40l^6r^3R+40l^2r^7R+20r^9R-10l^8R^2+12l^6r^2R^2+96l^4r^4R^2-12l^2r^6R^2+170r^8R^2+184l^6rR^3+336l^4r^3R^3-584l^2r^5R^3+800r^7R^3+32l^6R^4-148l^4r^2R^4-1608l^2r^4R^4+2284r^6R^4-544l^4rR^5-1528l^2r^3R^5+4072r^5R^5-34l^4R^6+16l^2r^2R^6+4386r^4R^6+568l^2rR^7+2400r^3R^7+7l^2R^8+307r^2R^8-188rR^9+4R^{10}\big)\Big)\Big/\Big(\big(l^2-r^2-2rR-4R^2\big)^2\big(l^4+2l^2r^2+r^4-8l^2rR+8r^3R-8l^2R^2+24r^2R^2+32rR^3+13R^4\big)^2\Big)\}$$

$$\{X33,\ \text{PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES},\ X94,\ \text{ISOGONAL CONJUGATE OF X(50)},$$
$$\big(l^{14}+3l^{12}r^2+l^{10}r^4-5l^8r^6-5l^6r^8+l^4r^{10}+3l^2r^{12}+r^{14}-28l^{12}rR-32l^{10}r^3R+20l^8r^5R-20l^4r^9R+32l^2r^{11}R+28r^{13}R-20l^{12}R^2+180l^{10}r^2R^2+272l^8r^4R^2-360l^6r^6R^2+156l^4r^8R^2-76l^2r^{10}R^2+360r^{12}R^2+520l^{10}rR^3-312l^8r^3R^3-2368l^6r^5R^3+3136l^4r^7R^3-2760l^2r^9R^3+2808r^{11}R^3+166l^{10}R^4-3326l^8r^2R^4-3452l^6r^4R^4+15564l^4r^6R^4-18858l^2r^8R^4+14770r^{10}R^4-3984l^8rR^5+6832l^6r^3R^5+33952l^4r^5R^5-68272l^2r^7R^5+55024r^9R^5-732l^8R^6+21900l^6r^2R^6+23788l^4r^4R^6-148140l^2r^6R^6+148112r^8R^6+16104l^6rR^7-33640l^4r^3R^7-185336l^2r^5R^7+287352r^7R^7+1809l^6R^8-69549l^4r^2R^8-93129l^2r^4R^8+389797r^6R^8-36180l^4rR^9+62592l^2r^3R^9+339156r^5R^9-2376l^4R^{10}+107928l^2r^2R^{10}+139824r^4R^{10}+42768l^2rR^{11}-36432r^3R^{11}+1296l^2R^{12}-65664r^2R^{12}-20736rR^{13}\big)\Big/\Big(\big(l^2-r^2-2rR-4R^2\big)^2\big(l^4+2l^2r^2+r^4-8l^2rR+8r^3R-12l^2R^2+28r^2R^2+48rR^3+27R^4\big)^2\Big)\}$$

$$\{X33,\ \text{PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES},$$
$$X95,\ \text{CEVAPOINT OF CENTROID AND CIRCUMCENTER},$$
$$\big(l^{14}+19l^{12}r^2+17l^{10}r^4-37l^8r^6-37l^6r^8+17l^4r^{10}+19l^2r^{12}+r^{14}-28l^{12}rR-416l^{10}r^3R-940l^8r^5R+1088l^6r^7R-84l^4r^9R+352l^2r^{11}R+28r^{13}R-16l^{12}R^2-8l^{10}r^2R^2+2872l^8r^4R^2+3920l^6r^6R^2-1920l^4r^8R^2+2488l^2r^{10}R^2+344r^{12}R^2+400l^{10}rR^3+3792l^8r^3R^3-1888l^6r^5R^3-7776l^4r^7R^3+8144l^2r^9R^3+2448r^{11}R^3+96l^{10}R^4-1520l^8r^2R^4-24320l^6r^4R^4-224l^4r^6R^4+9120l^2r^8R^4+11216r^{10}R^4-2112l^8rR^5-11264l^6r^3R^5+42112l^4r^5R^5-18432l^2r^7R^5+34752r^9R^5-256l^8R^6+7680l^6r^2R^6+63744l^4r^4R^6-74752l^2r^6R^6+74240r^8R^6+4864l^6rR^7+13056l^4r^3R^7-100096l^2r^5R^7+108800r^7R^7+256l^6R^8-10752l^4r^2R^8-57088l^2r^4R^8+105472r^6R^8-4096l^4rR^9-8192l^2r^3R^9+61440r^5R^9+16384r^4R^{10}\big)\Big/\Big(\big(l^2-r^2-2rR-4R^2\big)^2\big(l^4+18l^2r^2+r^4-8l^2rR+8r^3R-4l^2R^2+20r^2R^2+16rR^3\big)^2\Big)\}$$

$$\{X33,\ \text{PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES},\ X96,\ \text{ISOGONAL CONJUGATE OF X(52)},$$
$$-\Big(\big(l^{14}-13l^{12}r^2-15l^{10}r^4+27l^8r^6+27l^6r^8-15l^4r^{10}-13l^2r^{12}+r^{14}-20l^{12}rR+120l^{10}r^3R+740l^8r^5R-848l^6r^7R+276l^4r^9R-296l^2r^{11}R+28r^{13}R-20l^{12}R^2+384l^{10}r^2R^2+284l^8r^4R^2-5728l^6r^6R^2+4516l^4r^8R^2-2848l^2r^{10}R^2+340r^{12}R^2+368l^{10}rR^3-2640l^8r^3R^3-10880l^6r^5R^3+23296l^4r^7R^3-15600l^2r^9R^3+2384r^{11}R^3+168l^{10}R^4-4296l^8r^2R^4+2320l^6r^4R^4+53552l^4r^6R^4-53560l^2r^8R^4+10776r^{10}R^4-2752l^8rR^5+23040l^6r^3R^5+41408l^4r^5R^5-113920l^2r^7R^5+32768r^9R^5-768l^8R^6+23648l^6r^2R^6-41952l^4r^4R^6-126688l^2r^6R^6+65888r^8R^6+10688l^6rR^7-96704l^4r^3R^7-4928l^2r^5R^7+75584r^7R^7+2064l^6R^8-68176l^4r^2R^8+165360l^2r^4R^8+8016r^6R^8-22720l^4rR^9+191872l^2r^3R^9-122048r^5R^9-3264l^4R^{10}+98176l^2r^2R^{10}-194240r^4R^{10}+25088l^2rR^{11}-142848r^3R^{11}+2816l^2R^{12}-55552r^2R^{12}-11264rR^{13}-1024R^{14}\big)\Big/\Big(\big(l^2-r^2-2rR-4R^2\big)^2\big(l^4-14l^2r^2+r^4-8l^2rR+8r^3R+16r^2R^2-4R^4\big)^2\Big)\Big)\}$$

{X33, PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES, X97, ISOGONAL CONJUGATE OF X(53),

$$\left(R\left(24 l^{10} r^3 - 176 l^8 r^5 + 224 l^6 r^7 - 80 l^4 r^9 + 8 l^2 r^{11} + 6 l^{10} r^2 R - 370 l^8 r^4 R + 1380 l^6 r^6 R - 908 l^4 r^8 R + 150 l^2 r^{10} R - 2 r^{12} R + 4 l^{10} r R^2 - 524 l^8 r^3 R^2 + 4048 l^6 r^5 R^2 - 5120 l^4 r^7 R^2 + 1388 l^2 r^9 R^2 - 52 r^{11} R^2 + l^{10} R^3 - 191 l^8 r^2 R^3 + 5866 l^6 r^4 R^3 - 16430 l^4 r^6 R^3 + 7829 l^2 r^8 R^3 - 595 r^{10} R^3 - 92 l^8 r R^4 + 5128 l^6 r^3 R^4 - 31600 l^4 r^5 R^4 + 28472 l^2 r^7 R^4 - 3956 r^9 R^4 - 16 l^8 R^5 + 2184 l^6 r^2 R^5 - 37112 l^4 r^4 R^5 + 68056 l^2 r^6 R^5 - 16984 r^8 R^5 + 784 l^6 r R^6 - 26928 l^4 r^3 R^6 + 107312 l^2 r^5 R^6 - 49424 r^7 R^6 + 96 l^6 R^7 - 11504 l^4 r^2 R^7 + 110528 l^2 r^4 R^7 - 99376 r^6 R^7 - 3136 l^4 r R^8 + 72320 l^2 r^3 R^8 - 137792 r^5 R^8 - 256 l^4 R^9 + 28416 l^2 r^2 R^9 - 128768 r^4 R^9 + 5888 l^2 r R^{10} - 77056 r^3 R^{10} + 256 l^2 R^{11} - 26624 r^2 R^{11} - 4096 r R^{12}\right)\right) \Big/ \left(\left(l^2 - r^2 - 2 r R - 4 R^2\right)^2 \left(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 7 l^2 R^2 + 23 r^2 R^2 + 28 r R^3 + 12 R^4\right)^2\right)\}$$

{X33, PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES, X98, TarryPoint,

$$-\left(\left(l^{10} + l^8 r^2 - 2 l^6 r^4 - 2 l^4 r^6 + l^2 r^8 + r^{10} - 12 l^8 r R - 48 l^6 r^3 R + 56 l^4 r^5 R - 16 l^2 r^7 R + 20 r^9 R - 12 l^8 R^2 + 16 l^6 r^2 R^2 + 328 l^4 r^4 R^2 - 240 l^2 r^6 R^2 + 164 r^8 R^2 + 128 l^6 r R^3 + 480 l^4 r^3 R^3 - 1088 l^2 r^5 R^3 + 736 r^7 R^3 + 48 l^6 R^4 - 240 l^4 r^2 R^4 - 2160 l^2 r^4 R^4 + 2032 r^6 R^4 - 448 l^4 r R^5 - 1280 l^2 r^3 R^5 + 3520 r^5 R^5 - 64 l^4 R^6 + 896 l^2 r^2 R^6 + 3264 r^4 R^6 + 512 l^2 r R^7 + 512 r^3 R^7 - 1024 r^2 R^8\right) \Big/ \left(\left(l^2 - r^2 - 2 r R - 4 R^2\right)^2 \left(l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\right)\right)\right)\}$$

{X33, PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES, X99, STEINER POINT,

$$\left(l^{10} + l^8 r^2 - 2 l^6 r^4 - 2 l^4 r^6 + l^2 r^8 + r^{10} - 20 l^8 r R + 72 l^6 r^3 R - 64 l^4 r^5 R - 8 l^2 r^7 R + 20 r^9 R - 8 l^8 R^2 + 56 l^6 r^2 R^2 - 248 l^4 r^4 R^2 - 88 l^2 r^6 R^2 + 160 r^8 R^2 + 144 l^6 r R^3 - 592 l^4 r^3 R^3 + 48 l^2 r^5 R^3 + 656 r^7 R^3 + 16 l^6 R^4 - 224 l^4 r^2 R^4 + 656 l^2 r^4 R^4 + 1472 r^6 R^4 - 256 l^4 r R^5 + 1024 l^2 r^3 R^5 + 1792 r^5 R^5 + 1024 r^4 R^6\right) \Big/ \left(\left(l^2 - r^2 - 2 r R - 4 R^2\right)^2 \left(l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\right)\right)\}$$

{X33, PERSPECTOR OF THE ORTHIC AND INTANGENTS TRIANGLES,
X100, ANTICOMPLEMENT OF FEUERBACH POINT,

$$-\left(\left(R\left(l^6 + 7 l^4 r^2 - 9 l^2 r^4 + r^6 - 20 l^4 r R - 24 l^2 r^3 R + 12 r^5 R - 8 l^4 R^2 + 8 l^2 r^2 R^2 + 48 r^4 R^2 + 144 l^2 r R^3 + 48 r^3 R^3 + 16 l^2 R^4 - 128 r^2 R^4 - 256 r R^5\right)\right) \Big/ \left((2 r - R)\left(-l^2 + r^2 + 2 r R + 4 R^2\right)^2\right)\right)\}$$

{X34, X(4)-BETH CONJUGATE OF X(4), X35, {X(1),X(3)}-HARMONIC CONJUGATE OF X(36),

$$-\left(\left(4 r^2 R\left(-4 l^2 r^3 + 4 r^5 - 2 l^4 R + 6 l^2 r^2 R + 12 r^4 R + 28 l^2 r R^2 - 24 r^3 R^2 + 17 l^2 R^3 - 115 r^2 R^3 - 116 r R^4 - 36 R^5\right)\right) \Big/ \left((2 r + R)^2 \left(-l^2 + r^2 + 6 r R + 4 R^2\right)^2\right)\right)\}$$

{X34, X(4)-BETH CONJUGATE OF X(4), X36, INVERSE-IN-CIRCUMCIRCLE OF INCENTER,

$$-\frac{4 r^2 R\left(-2 l^2 r^2 + 2 r^4 + 2 l^2 r R + 6 r^3 R - l^2 R^2 + 3 r^2 R^2 - 4 r R^3 + 4 R^4\right)}{(2 r - R)\left(-l^2 + r^2 + 6 r R + 4 R^2\right)^2}\}$$

{X34, X(4)-BETH CONJUGATE OF X(4), X37, CrosspointOfIncenterAndCentroid,

$$\left(4 r^2 R\left(2 l^6 r - 2 l^4 r^3 + 2 l^2 r^5 - 2 r^7 - 21 l^4 r^2 R + 34 l^2 r^4 R - 29 r^6 R - 52 l^4 r R^2 + 180 l^2 r^3 R^2 - 168 r^5 R^2 - 4 l^4 R^3 + 364 l^2 r^2 R^3 - 500 r^4 R^3 + 256 l^2 r R^4 - 816 r^3 R^4 + 16 l^2 R^5 - 704 r^2 R^5 - 256 r R^6\right)\right) \Big/ \left(\left(l^2 + r^2 + 4 r R\right)^2 \left(l^2 - r^2 - 6 r R - 4 R^2\right)^2\right)\}$$

{X34, X(4)-BETH CONJUGATE OF X(4), X38, CROSSPOINT OF X(1) AND X(75),

$$\left(16 r^2 R\left(l^6 r - 2 l^4 r^3 + 3 l^2 r^5 - 2 r^7 - 16 l^4 r^2 R + 29 l^2 r^4 R - 23 r^6 R - 14 l^4 r R^2 + 112 l^2 r^3 R^2 - 118 r^5 R^2 - l^4 R^3 + 150 l^2 r^2 R^3 - 321 r^4 R^3 + 60 l^2 r R^4 - 460 r^3 R^4 + 4 l^2 R^5 - 288 r^2 R^5 - 64 r R^6\right)\right) \Big/ \left(\left(l^2 + r^2 - 2 r R\right)^2 \left(l^2 - r^2 - 6 r R - 4 R^2\right)^2\right)\}$$

{X34, X(4)-BETH CONJUGATE OF X(4), X39, BrocardMidpoint,

$$\left(4 r^2 R\left(2 l^8 r^3 + 4 l^6 r^5 - 4 l^2 r^9 - 2 r^{11} + 3 l^8 r^2 R - 48 l^6 r^4 R + 42 l^4 r^6 R - 16 l^2 r^8 R - 45 r^{10} R - 12 l^8 r R^2 + 20 l^6 r^3 R^2 - 4 l^4 r^5 R^2 + 236 l^2 r^7 R^2 - 432 r^9 R^2 - 4 l^8 R^3 + 180 l^6 r^2 R^3 - 720 l^4 r^4 R^3 + 2036 l^2 r^6 R^3 - 2308 r^8 R^3 + 160 l^6 r R^4 - 1776 l^4 r^3 R^4 + 6368 l^2 r^5 R^4 - 7504 r^7 R^4 + 16 l^6 R^5 - 1504 l^4 r^2 R^5 + 9680 l^2 r^4 R^5 - 15232 r^6 R^5 - 384 l^4 r R^6 + 7296 l^2 r^3 R^6 - 18944 r^5 R^6 + 2304 l^2 r^2 R^7 - 13312 r^4 R^7 - 4096 r^3 R^8\right)\right) \Big/ \left(\left(l^2 - r^2 - 6 r R - 4 R^2\right)^2 \left(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\right)^2\right)\}$$

$$\left\{X34,\ X(4)\text{-BETH CONJUGATE OF } X(4),\ X40,\ \text{BEVAN POINT},\ -\frac{4R\left(l^4 r-4l^2r^3+3r^5-l^4R-9l^2r^2R+20r^4R+4l^2rR^2+36r^3R^2+8l^2R^3-32rR^4-16R^5\right)}{\left(l^2-r^2-6rR-4R^2\right)^2}\right\}$$

$$\left\{X34,\ X(4)\text{-BETH CONJUGATE OF } X(4),\ X41,\ X(6)\text{-CEVA CONJUGATE OF } X(31),\ -\frac{1}{\left(l^2-r^2-6rR-4R^2\right)^2\left(3l^2r-r^3+2l^2R-8r^2R-16rR^2\right)^2}\right.$$
$$4r^2R\left(-6l^6r^3+14l^4r^5-10l^2r^7+2r^9+l^8R-8l^6r^2R+102l^4r^4R-148l^2r^6R+45r^8R-48l^6rR^2+360l^4r^3R^2-904l^2r^5R^2+432r^7R^2-20l^6R^3+732l^4r^2R^3-2988l^2r^4R^3+2308r^6R^3+720l^4rR^4-5792l^2r^3R^4+7504r^5R^4+128l^4R^5-6352l^2r^2R^5+15232r^4R^5-3200l^2rR^6+18944r^3R^6-256l^2R^7+13312r^2R^7+4096rR^8\right)\Big\}$$

$$\left\{X34,\ X(4)\text{-BETH CONJUGATE OF } X(4),\ X42,\ \text{CROSSPOINT OF INCENTER AND SYMMEDIAN POINT},\ -\left(\left(16r^2R^2\left(l^4r^2+l^2r^4-4r^6+4l^4rR-12l^2r^3R-16r^5R+l^4R^2-46l^2r^2R^2+13r^4R^2-36l^2rR^3+124r^3R^3-4l^2R^4+160r^2R^4+64rR^5\right)\right)\Big/\left(\left(l^2+r^2-2rR\right)^2\left(l^2-r^2-6rR-4R^2\right)^2\right)\right)\right\}$$

$$\left\{X34,\ X(4)\text{-BETH CONJUGATE OF } X(4),\ X43,\ X(6)\text{-CEVA CONJUGATE OF } X(1),\ \left(4r^2R^2\left(3l^6-3l^4r^2-31l^2r^4+39r^6-84l^4rR+136l^2r^3R+92r^5R-28l^4R^2+616l^2r^2R^2-444r^4R^2+608l^2rR^3-1824r^3R^3+64l^2R^4-2240r^2R^4-1024rR^5\right)\right)\Big/\left(\left(l^2+r^2-8rR\right)^2\left(l^2-r^2-6rR-4R^2\right)^2\right)\right\}$$

$$\left\{X34,\ X(4)\text{-BETH CONJUGATE OF } X(4),\ X44,\ X(6)\text{-LINE CONJUGATE OF } X(1),\ \left(4r^2R\left(6l^6r-18l^4r^3+30l^2r^5-18r^7+8l^6R-141l^4r^2R+330l^2r^4R-261r^6R-260l^4rR^2+1332l^2r^3R^2-1512r^5R^2-68l^4R^3+2316l^2r^2R^3-4500r^4R^3+1536l^2rR^4-7344r^3R^4+144l^2R^5-6336r^2R^5-2304rR^6\right)\right)\Big/\left(\left(l^2-3r^2-12rR\right)^2\left(l^2-r^2-6rR-4R^2\right)^2\right)\right\}$$

$$\left\{X34,\ X(4)\text{-BETH CONJUGATE OF } X(4),\ X45,\ X(9)\text{-BETH CONJUGATE OF } X(1),\ \left(4r^2R\left(12l^6r-18l^4r^3+24l^2r^5-18r^7+8l^6R-177l^4r^2R+318l^2r^4R-261r^6R-380l^4rR^2+1476l^2r^3R^2-1512r^5R^2-68l^4R^3+2796l^2r^2R^3-4500r^4R^3+1920l^2rR^4-7344r^3R^4+144l^2R^5-6336r^2R^5-2304rR^6\right)\right)\Big/\left(\left(l^2+3r^2+12rR\right)^2\left(l^2-r^2-6rR-4R^2\right)^2\right)\right\}$$

$$\left\{X34,\ X(4)\text{-BETH CONJUGATE OF } X(4),\ X46,\ X(4)\text{-CEVA CONJUGATE OF } X(1),\ -\frac{4r^2R\left(-l^2+3r^2+4rR+4R^2\right)\left(-l^2r+r^3+5r^2R+6rR^2-R^3\right)}{(r-R)^2\left(-l^2+r^2+6rR+4R^2\right)^2}\right\}$$

$$\left\{X34,\ X(4)\text{-BETH CONJUGATE OF } X(4),\ X47,\ X(110)\text{-BETH CONJUGATE OF } X(34),\ -\frac{16r^2R(r+R)^2\left(l^2-3r^2-4rR-4R^2\right)\left(l^2r-r^3-5r^2R-6rR^2+R^3\right)}{\left(l^2-r^2-6rR-4R^2\right)^2\left(l^2-3r^2-6rR-2R^2\right)^2}\right\}$$

$$\left\{X34,\ X(4)\text{-BETH CONJUGATE OF } X(4),\ X48,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(63),\ -\frac{1}{\left(3l^2-r^2-6rR-8R^2\right)^2\left(l^2-r^2-6rR-4R^2\right)^2}\right.$$
$$4R\left(-6l^6r^3+14l^4r^5-10l^2r^7+2r^9+l^8R-4l^6r^2R+78l^4r^4R-120l^2r^6R+37r^8R-36l^6rR^2+228l^4r^3R^2-596l^2r^5R^2+292r^7R^2-12l^6R^3+400l^4r^2R^3-1628l^2r^4R^3+1288r^6R^3+352l^4rR^4-2656l^2r^3R^4+3488r^5R^4+48l^4R^5-2496l^2r^2R^5+5968r^4R^5-1088l^2rR^6+6336r^3R^6-64l^2R^7+3840r^2R^7+1024rR^8\right)\Big\}$$

$$\left\{X34,\ X(4)\text{-BETH CONJUGATE OF }X(4),\ X49,\ \text{CENTER OF SINE-TRIPLE-ANGLE CIRCLE},\ -\frac{1}{\left(2 l^2-2 r^2-8 r R-7 R^2\right)^2\left(l^2-r^2-6 r R-4 R^2\right)^2}\right.$$
$$R\left(-8 l^6 r^3+40 l^4 r^5-56 l^2 r^7+24 r^9+l^8 R-8 l^6 r^2 R+166 l^4 r^4 R-472 l^2 r^6 R+313 r^8 R-36 l^6 r R^2+352 l^4 r^3 R^2-1660 l^2 r^5 R^2+1728 r^7 R^2-12 l^6 R^3+476 l^4 r^2 R^3-3244 l^2 r^4 R^3+5308 r^6 R^3+360 l^4 r R^4-3964 l^2 r^3 R^4+10068 r^5 R^4+47 l^4 R^5-3002 l^2 r^2 R^5+12379 r^4 R^5-1140 l^2 r R^6+9940 r^3 R^6-56 l^2 R^7+4868 r^2 R^7+1104 r R^8-16 R^9\right)\Big\}$$

$$\Big\{X34,\ X(4)\text{-BETH CONJUGATE OF }X(4),\ X50,\ X(74)\text{-CEVA CONJUGATE OF }X(184),$$
$$-\Big(\Big(4 r^2 R\left(6 l^8 r^3-44 l^6 r^5+56 l^4 r^7-20 l^2 r^9+2 r^{11}+13 l^8 r^2 R-144 l^6 r^4 R+454 l^4 r^6 R-304 l^2 r^8 R+45 r^{10} R+12 l^8 r R^2-364 l^6 r^3 R^2+1688 l^4 r^5 R^2-1972 l^2 r^7 R^2+444 r^9 R^2+4 l^8 R^3-450 l^6 r^2 R^3+3762 l^4 r^4 R^3-7222 l^2 r^6 R^3+2530 r^8 R^3-232 l^6 r R^4+5178 l^4 r^3 R^4-16540 l^2 r^5 R^4+9226 r^7 R^4-40 l^6 R^5+3921 l^4 r^2 R^5-24454 l^2 r^4 R^5+22525 r^6 R^5+1356 l^4 r R^6-22820 l^2 r^3 R^6+37352 r^5 R^6+132 l^4 R^7-12300 l^2 r^2 R^7+41620 r^4 R^7-3072 l^2 r R^8+29872 r^3 R^8-144 l^2 R^9+12480 r^2 R^9+2304 r R^{10}\right)\Big)\Big/$$
$$\Big(\left(l^2-r^2-6 r R-4 R^2\right)^2\left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-3 l^2 R^2+19 r^2 R^2+12 r R^3\right)^2\Big)\Big)\Big\}$$

$$\Big\{X34,\ X(4)\text{-BETH CONJUGATE OF }X(4),\ X51,\ \text{CENTROID OF ORTHIC TRIANGLE},$$
$$-\Big(\Big(l^8+16 l^6 r^2-34 l^4 r^4+16 l^2 r^6+r^8-20 l^6 r R-156 l^4 r^3 R+180 l^2 r^5 R-4 r^7 R-12 l^6 R^2-96 l^4 r^2 R^2+740 l^2 r^4 R^2-200 r^6 R^2+224 l^4 r R^3+1088 l^2 r^3 R^3-1120 r^5 R^3+48 l^4 R^4-2416 r^4 R^4-832 l^2 r R^5-1856 r^3 R^5-64 l^2 R^6+512 r^2 R^6+1024 r R^7\Big)\Big/\Big(36 R^2\left(-l^2+r^2+6 r R+4 R^2\right)^2\Big)\Big)\Big\}$$

$$\Big\{X34,\ X(4)\text{-BETH CONJUGATE OF }X(4),\ X52,\ \text{ORTHOCENTER OF ORTHIC TRIANGLE},\ \frac{1}{4 R^2\left(-l^2+r^2+6 r R+4 R^2\right)^2}$$
$$\left(l^8-16 l^6 r^2+30 l^4 r^4-16 l^2 r^6+r^8-20 l^6 r R+196 l^4 r^3 R-204 l^2 r^5 R+28 r^7 R-12 l^6 R^2+312 l^4 r^2 R^2-908 l^2 r^4 R^2+272 r^6 R^2+176 l^4 r R^3-1712 l^2 r^3 R^3+1216 r^5 R^3+52 l^4 R^4-1416 l^2 r^2 R^4+2772 r^4 R^4-496 l^2 r R^5+3248 r^3 R^5-96 l^2 R^6+1840 r^2 R^6+448 r R^7+64 R^8\right)\Big\}$$

$$\Big\{X34,\ X(4)\text{-BETH CONJUGATE OF }X(4),\ X53,\ \text{SYMMEDIAN POINT OF ORTHIC TRIANGLE},$$
$$-\Big(\Big(4 r^2 (l-r-2 R)^2 (l+r+2 R)^2\left(2 l^6 r^2-12 l^4 r^4+2 l^2 r^6-4 l^6 r R+10 l^4 r^3 R+2 r^7 R+49 l^4 r^2 R^2-86 l^2 r^4 R^2+29 r^6 R^2+28 l^4 r R^3-292 l^2 r^3 R^3+168 r^5 R^3+4 l^4 R^4-332 l^2 r^2 R^4+500 r^4 R^4-128 l^2 r R^5+816 r^3 R^5-16 l^2 R^6+704 r^2 R^6+256 r R^7\right)\Big)\Big/$$
$$\Big(\left(l^2-r^2-6 r R-4 R^2\right)^2\left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-4 l^2 R^2+20 r^2 R^2+16 r R^3\right)^2\Big)\Big)\Big\}$$

$$\Big\{X34,\ X(4)\text{-BETH CONJUGATE OF }X(4),\ X54,\ \text{KosnitaPoint},\ \frac{1}{\left(2 l^2-2 r^2-8 r R-5 R^2\right)^2\left(l^2-r^2-6 r R-4 R^2\right)^2}$$
$$R\left(8 l^6 r^3-40 l^4 r^5+56 l^2 r^7-24 r^9+4 l^6 r^2 R-164 l^4 r^4 R+476 l^2 r^6 R-316 r^8 R+8 l^6 r R^2-252 l^4 r^3 R^2+1576 l^2 r^5 R^2-1716 r^7 R^2-l^6 R^3-195 l^4 r^2 R^3+2625 l^2 r^4 R^3-5005 r^6 R^3-68 l^4 r R^4+2376 l^2 r^3 R^4-8580 r^5 R^4+12 l^4 R^5+1128 l^2 r^2 R^5-8884 r^4 R^5+160 l^2 r R^6-5408 r^3 R^6-48 l^2 R^7-1648 r^2 R^7-64 r R^8+64 R^9\right)\Big\}$$

$$\Big\{X34,\ X(4)\text{-BETH CONJUGATE OF }X(4),\ X55,\ \text{INSIMILICENTER(CIRCUMCIRCLE, INCIRCLE)},$$
$$-\Big(\Big(r^2 R\left(-4 l^2 r^3+4 r^5-3 l^4 R+6 l^2 r^2 R+13 r^4 R+44 l^2 r R^2-36 r^3 R^2+28 l^2 R^3-176 r^2 R^3-192 r R^4-64 R^5\right)\Big)\Big/\Big((r+R)^2\left(-l^2+r^2+6 r R+4 R^2\right)^2\Big)\Big)\Big\}$$

$$\Big\{X34,\ X(4)\text{-BETH CONJUGATE OF }X(4),\ X56,\ \text{EXSIMILICENTER(CIRCUMCIRCLE, INCIRCLE)},$$
$$-\frac{r^2 R\left(-4 l^2 r^3+4 r^5+l^4 R+6 l^2 r^2 R+9 r^4 R-20 l^2 r R^2+12 r^3 R^2-4 l^2 R^3+32 r^2 R^3+64 r R^4\right)}{(r-R)^2\left(-l^2+r^2+6 r R+4 R^2\right)^2}\Big\}$$

$$\left\{X34,\ X(4)\text{-BETH CONJUGATE OF }X(4),\ X57,\ \text{ISOGONAL CONJUGATE OF }X(9),\ -\frac{4 r^2 R \left(l^4 r-4 l^2 r^3+3 r^5+l^4 R-9 l^2 r^2 R+18 r^4 R-24 l^2 r R^2+48 r^3 R^2-4 l^2 R^3+76 r^2 R^3+64 r R^4\right)}{(r-2 R)^2 \left(-l^2+r^2+6 r R+4 R^2\right)^2}\right\}$$

$$\left\{X34,\ X(4)\text{-BETH CONJUGATE OF }X(4),\ X58,\ \text{ISOGONAL CONJUGATE OF }X(10),\ -\left(\left(16 r^2 R (r+R)^2 \left(l^4 r-4 l^2 r^3+3 r^5+l^4 R-9 l^2 r^2 R+18 r^4 R-24 l^2 r R^2+48 r^3 R^2-4 l^2 R^3+76 r^2 R^3+64 r R^4\right)\right) \Big/ \left(\left(l^2-3 r^2-4 r R\right)^2 \left(l^2-r^2-6 r R-4 R^2\right)^2\right)\right)\right\}$$

$$\left\{X34,\ X(4)\text{-BETH CONJUGATE OF }X(4),\ X59,\ \text{ISOGONAL CONJUGATE OF }X(11),\ -\frac{1}{(2 r-R) \left(-l^2+r^2+5 r R+4 R^2\right)^2 \left(-l^2+r^2+6 r R+4 R^2\right)^2} r^2 R \left(-4 l^6 r^2+20 l^4 r^4-28 l^2 r^6+12 r^8-2 l^6 r R+86 l^4 r^3 R-254 l^2 r^5 R+170 r^7 R+l^6 R^2+91 l^4 r^2 R^2-785 l^2 r^4 R^2+933 r^6 R^2-12 l^4 r R^3-928 l^2 r^3 R^3+2476 r^5 R^3-8 l^4 R^4-232 l^2 r^2 R^4+3184 r^4 R^4+144 l^2 r R^5+1584 r^3 R^5+16 l^2 R^6-128 r^2 R^6-256 r R^7\right)\right\}$$

$$\left\{X34,\ X(4)\text{-BETH CONJUGATE OF }X(4),\ X60,\ \text{ISOGONAL CONJUGATE OF }X(12),\ \frac{1}{\left(l^2-r^2-6 r R-4 R^2\right)^2 \left(2 l^2 r-2 r^3+l^2 R-7 r^2 R-7 r R^2\right)^2} r^2 R \left(8 l^6 r^3-40 l^4 r^5+56 l^2 r^7-24 r^9+8 l^6 r^2 R-176 l^4 r^4 R+472 l^2 r^6 R-304 r^8 R+20 l^6 r R^2-408 l^4 r^3 R^2+1836 l^2 r^5 R^2-1736 r^7 R^2+5 l^6 R^3-545 l^4 r^2 R^3+4139 l^2 r^4 R^3-5855 r^6 R^3-380 l^4 r R^4+5728 l^2 r^3 R^4-12772 r^5 R^4-56 l^4 R^5+4648 l^2 r^2 R^5-18416 r^4 R^5+1840 l^2 r R^6-17104 r^3 R^6+144 l^2 R^7-9344 r^2 R^7-2304 r R^8\right)\right\}$$

$$\left\{X34,\ X(4)\text{-BETH CONJUGATE OF }X(4),\ X61,\ \text{ISOGONAL CONJUGATE OF }X(17),\ -\frac{1}{\left(3 l^2+2 \sqrt{3}\, l r-3 r^2-12 r R\right)^2 \left(l^2-r^2-6 r R-4 R^2\right)^2} 12 r^2 R \left(-2 \sqrt{3}\, l^5 r^2+2 l^4 r^3+8 \sqrt{3}\, l^3 r^4-8 l^2 r^5-6 \sqrt{3}\, l r^6+6 r^7-l^6 R-4 \sqrt{3}\, l^5 r R+33 l^4 r^2 R+36 \sqrt{3}\, l^3 r^3 R-103 l^2 r^4 R-56 \sqrt{3}\, l r^5 R+87 r^6 R+48 l^4 r R^2+64 \sqrt{3}\, l^3 r^2 R^2-408 l^2 r^3 R^2-192 \sqrt{3}\, l r^4 R^2+504 r^5 R^2+20 l^4 R^3+48 \sqrt{3}\, l^3 r R^3-672 l^2 r^2 R^3-320 \sqrt{3}\, l r^3 R^3+1500 r^4 R^3-432 l^2 r R^4-288 \sqrt{3}\, l r^2 R^4+2448 r^3 R^4-64 l^2 R^5-128 \sqrt{3}\, l r R^5+2112 r^2 R^5+768 r R^6\right)\right\}$$

$$\left\{X34,\ X(4)\text{-BETH CONJUGATE OF }X(4),\ X62,\ \text{ISOGONAL CONJUGATE OF }X(18),\ -\frac{1}{\left(3 l^2-2 \sqrt{3}\, l r-3 r^2-12 r R\right)^2 \left(l^2-r^2-6 r R-4 R^2\right)^2} 12 r^2 R \left(2 \sqrt{3}\, l^5 r^2+2 l^4 r^3-8 \sqrt{3}\, l^3 r^4-8 l^2 r^5+6 \sqrt{3}\, l r^6+6 r^7-l^6 R+4 \sqrt{3}\, l^5 r R+33 l^4 r^2 R-36 \sqrt{3}\, l^3 r^3 R-103 l^2 r^4 R+56 \sqrt{3}\, l r^5 R+87 r^6 R+48 l^4 r R^2-64 \sqrt{3}\, l^3 r^2 R^2-408 l^2 r^3 R^2+192 \sqrt{3}\, l r^4 R^2+504 r^5 R^2+20 l^4 R^3-48 \sqrt{3}\, l^3 r R^3-672 l^2 r^2 R^3+320 \sqrt{3}\, l r^3 R^3+1500 r^4 R^3-432 l^2 r R^4+288 \sqrt{3}\, l r^2 R^4+2448 r^3 R^4-64 l^2 R^5+128 \sqrt{3}\, l r R^5+2112 r^2 R^5+768 r R^6\right)\right\}$$

$$\left\{X34,\ X(4)\text{-BETH CONJUGATE OF }X(4),\ X63,\ \text{ISOGONAL CONJUGATE OF }X(19),\ -\left(\left(R \left(-2 l^6 r+6 l^4 r^3-14 l^2 r^5+10 r^7-l^6 R+41 l^4 r^2 R-99 l^2 r^4 R+99 r^6 R+44 l^4 r R^2-328 l^2 r^3 R^2+428 r^5 R^2+8 l^4 R^3-440 l^2 r^2 R^3+1024 r^4 R^3-208 l^2 r R^4+1392 r^3 R^4-16 l^2 R^5+960 r^2 R^5+256 r R^6\right)\right) \Big/ \left((r+R)^2 \left(-l^2+r^2+6 r R+4 R^2\right)^2\right)\right)\right\}$$

$$\Big\{X34,\ X(4)\text{-BETH CONJUGATE OF } X(4),\ X64,$$

$$\text{ISOGONAL CONJUGATE OF } X(20),\ \frac{1}{(l-r-2R)^2\,(l+r+2R)^2\,\left(l^2-r^2-6rR-4R^2\right)^2}$$

$$4R\,\big(2l^6r^3-4l^4r^5+2l^2r^7+3l^8R-14l^6r^2R+7l^4r^4R-4l^2r^6R+8r^8R-64l^6rR^2+204l^4r^3R^2-212l^2r^5R^2+120r^7R^2-52l^6R^3+684l^4r^2R^3-1296l^2r^4R^3+812r^6R^3+832l^4rR^4-3600l^2r^3R^4+3168r^5R^4+336l^4R^5-5136l^2r^2R^5+7664r^4R^5-3584l^2rR^6+11584r^3R^6-960l^2R^7+10496r^2R^7+5120rR^8+1024R^9\big)\Big\}$$

$$\Big\{X34,\ X(4)\text{-BETH CONJUGATE OF } X(4),\ X65,\ \text{ORTHOCENTER OF THE INTOUCH TRIANGLE},$$

$$-\frac{r^2\left(2l^4r-4l^2r^3+2r^5+l^4R-22l^2r^2R+21r^4R-28l^2rR^2+76r^3R^2-4l^2R^3+112r^2R^3+64rR^4\right)}{R\left(-l^2+r^2+6rR+4R^2\right)^2}\Big\}$$

$$\Big\{X34,\ X(4)\text{-BETH CONJUGATE OF } X(4),\ X66,\ \text{ISOGONAL CONJUGATE OF } X(22),$$

$$\big(6l^{12}r^2-32l^{10}r^4+70l^8r^6-80l^6r^8+50l^4r^{10}-16l^2r^{12}+2r^{14}-4l^{12}rR-116l^{10}r^3R+552l^8r^5R-968l^6r^7R+812l^4r^9R-324l^2r^{11}R+48r^{13}R-l^{12}R^2+2l^{10}r^2R^2+1281l^8r^4R^2-4356l^6r^6R^2+5377l^4r^8R^2-2814l^2r^{10}R^2+511r^{12}R^2+84l^{10}rR^3+556l^8r^3R^3-8664l^6r^5R^3+18488l^4r^7R^3-13628l^2r^9R^3+3164r^{11}R^3+12l^{10}R^4-816l^8r^2R^4-6072l^6r^4R^4+34240l^4r^6R^4-39892l^2r^8R^4+12528r^{10}R^4-560l^8rR^5+2592l^6r^3R^5+29888l^4r^5R^5-70816l^2r^7R^5+32752r^9R^5-48l^8R^6+4832l^6r^2R^6+1808l^4r^4R^6-70016l^2r^6R^6+56000r^8R^6+1472l^6rR^7-15552l^4r^3R^7-24704l^2r^5R^7+58752r^7R^7+64l^6R^8-9024l^4r^2R^8+17024l^2r^4R^8+30144r^6R^8-1280l^4rR^9+18176l^2r^3R^9-2816r^5R^9+4352l^2r^2R^{10}-11264r^4R^{10}-4096r^3R^{11}\big)\Big/$$

$$\Big((l-r-2R)^2\,(l+r+2R)^2\,\left(l^2-r^2-4rR\right)^2\,\left(l^2-r^2-6rR-4R^2\right)^2\Big)\Big\}$$

$$\Big\{X34,\ X(4)\text{-BETH CONJUGATE OF } X(4),\ X67,\ \text{ISOGONAL CONJUGATE OF } X(23),$$

$$\big(l^{12}+10l^{10}r^2-53l^8r^4+92l^6r^6-73l^4r^8+26l^2r^{10}-3r^{12}-36l^{10}rR-128l^8r^3R+656l^6r^5R-840l^4r^7R+404l^2r^9R-56r^{11}R-12l^{10}R^2+292l^8r^2R^2+1080l^6r^4R^2-3432l^4r^6R^2+2516l^2r^8R^2-444r^{10}R^2+360l^8rR^3-816l^6r^3R^3-5608l^4r^5R^3+8000l^2r^7R^3-1936r^9R^3+48l^8R^4-2528l^6r^2R^4-1452l^4r^4R^4+13544l^2r^6R^4-5004r^8R^4-1152l^6rR^5+5712l^4r^3R^5+10736l^2r^5R^5-7680r^7R^5-64l^6R^6+5328l^4r^2R^6+336l^2r^4R^6-6576r^6R^6+1152l^4rR^7-4992l^2r^3R^7-2368r^5R^7-2112l^2r^2R^8+768r^4R^8+1024r^3R^9\big)\Big/$$

$$\Big(\left(l^2-r^2-4rR\right)^2\,\left(2l^2-2r^2-8rR-9R^2\right)\,\left(l^2-r^2-6rR-4R^2\right)^2\Big)\Big\}$$

$$\Big\{X34,\ X(4)\text{-BETH CONJUGATE OF } X(4),\ X68,$$

$$\text{PRASOLOV POINT},\ \frac{1}{(l-r-2R)^2\,(l+r+2R)^2\,\left(l^2-r^2-6rR-4R^2\right)^2}$$

$$\big(6l^8r^2-20l^6r^4+24l^4r^6-12l^2r^8+2r^{10}-4l^8rR-76l^6r^3R+196l^4r^5R-148l^2r^7R+32r^9R+l^8R^2-32l^6r^2R^2+542l^4r^4R^2-736l^2r^6R^2+225r^8R^2+36l^6rR^3+556l^4r^3R^3-1876l^2r^5R^3+900r^7R^3-12l^6R^4+40l^4r^2R^4-2524l^2r^4R^4+2224r^6R^4-112l^4rR^5-1472l^2r^3R^5+3440r^5R^5+52l^4R^6+8l^2r^2R^6+3140r^4R^6+144l^2rR^7+1328r^3R^7-96l^2R^8-16r^2R^8-64rR^9+64R^{10}\big)\Big\}$$

$$\Big\{X34,\ X(4)\text{-BETH CONJUGATE OF } X(4),\ X69,$$

$$\text{SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},\ \frac{1}{\left(l^2-r^2-4rR\right)^2\,\left(l^2-r^2-6rR-4R^2\right)^2}$$

$$\big(l^{10}+5l^8r^2-22l^6r^4+26l^4r^6-11l^2r^8+r^{10}-28l^8rR-40l^6r^3R+176l^4r^5R-120l^2r^7R+12r^9R-8l^8R^2+168l^6r^2R^2+248l^4r^4R^2-456l^2r^6R^2+48r^8R^2+176l^6rR^3-176l^4r^3R^3-816l^2r^5R^3+48r^7R^3+16l^6R^4-608l^4r^2R^4-1008l^2r^4R^4-128r^6R^4-256l^4rR^5-512l^2r^3R^5-256r^5R^5\big)\Big\}$$

$$\{X34,\ X(4)\text{-BETH CONJUGATE OF } X(4),\ X70,\ \text{ISOGONAL CONJUGATE OF } X(26),$$
$$\big(6 l^{12} r^2 - 32 l^{10} r^4 + 70 l^8 r^6 - 80 l^6 r^8 + 50 l^4 r^{10} - 16 l^2 r^{12} + 2 r^{14} - 4 l^{12} r R - 116 l^{10} r^3 R + 552 l^8 r^5 R -$$
$$968 l^6 r^7 R + 812 l^4 r^9 R - 324 l^2 r^{11} R + 48 r^{13} R - 24 l^{10} r^2 R^2 + 1384 l^8 r^4 R^2 - 4528 l^6 r^6 R^2 +$$
$$5520 l^4 r^8 R^2 - 2872 l^2 r^{10} R^2 + 520 r^{12} R^2 + 72 l^{10} r R^3 + 1004 l^8 r^3 R^3 - 10120 l^6 r^5 R^3 +$$
$$20288 l^4 r^7 R^3 - 14592 l^2 r^9 R^3 + 3348 r^{11} R^3 - l^{10} R^4 - 435 l^8 r^2 R^4 - 10238 l^6 r^4 R^4 + 43142 l^4 r^6 R^4 -$$
$$46657 l^2 r^8 R^4 + 14189 r^{10} R^4 - 496 l^8 r R^5 - 1884 l^6 r^3 R^5 + 51516 l^4 r^5 R^5 - 96676 l^2 r^7 R^5 +$$
$$41396 r^9 R^5 + 14 l^8 R^6 + 3632 l^6 r^2 R^6 + 27652 l^4 r^4 R^6 - 127696 l^2 r^6 R^6 + 84366 r^8 R^6 + 1648 l^6 r R^7 -$$
$$3580 l^4 r^3 R^7 - 98464 l^2 r^5 R^7 + 118956 r^7 R^7 - 73 l^6 R^8 - 10227 l^4 r^2 R^8 - 30071 l^2 r^4 R^8 +$$
$$111203 r^6 R^8 - 2724 l^4 r R^9 + 12328 l^2 r^3 R^9 + 60924 r^5 R^9 + 172 l^4 R^{10} + 11816 l^2 r^2 R^{10} +$$
$$10412 r^4 R^{10} + 2080 l^2 r R^{11} - 8096 r^3 R^{11} - 176 l^2 R^{12} - 4720 r^2 R^{12} - 576 r R^{13} + 64 R^{14}\big) /$$
$$\big((l^2 - r^2 - 6 r R - 4 R^2)^2 (l^4 - 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 6 l^2 R^2 + 22 r^2 R^2 + 24 r R^3 + 7 R^4)^2\big)\}$$

$$\{X34,\ X(4)\text{-BETH CONJUGATE OF } X(4),\ X71,$$
$$\text{ISOGONAL CONJUGATE OF } X(27),\ \frac{1}{(l^2 - r^2 - 6 r R - 4 R^2)^2 (l^2 + r^2 + 6 r R + 8 R^2)^2}$$
$$4 R \big(2 l^6 r^3 + 2 l^4 r^5 - 2 l^2 r^7 - 2 r^9 + 3 l^8 R - 12 l^6 r^2 R + 22 l^4 r^4 R -$$
$$16 l^2 r^6 R - 37 r^8 R - 44 l^6 r R^2 + 92 l^4 r^3 R^2 - 12 l^2 r^5 R^2 - 292 r^7 R^2 - 20 l^6 R^3 +$$
$$160 l^4 r^2 R^3 + 220 l^2 r^4 R^3 - 1288 r^6 R^3 + 96 l^4 r R^4 + 800 l^2 r^3 R^4 - 3488 r^5 R^4 + 16 l^4 R^5 +$$
$$1088 l^2 r^2 R^5 - 5968 r^4 R^5 + 576 l^2 r R^6 - 6336 r^3 R^6 + 64 l^2 R^7 - 3840 r^2 R^7 - 1024 r R^8\big)\}$$

$$\{X34,\ X(4)\text{-BETH CONJUGATE OF } X(4),\ X72,\ \text{ISOGONAL CONJUGATE OF } X(28),\ -\frac{1}{R (-l^2 + r^2 + 6 r R + 4 R^2)^2}$$
$$\big(-l^6 r + 3 l^4 r^3 - 3 l^2 r^5 + r^7 - l^6 R + 20 l^4 r^2 R - 41 l^2 r^4 R + 22 r^6 R + 36 l^4 r R^2 - 184 l^2 r^3 R^2 + 172 r^5 R^2 +$$
$$8 l^4 R^3 - 320 l^2 r^2 R^3 + 596 r^4 R^3 - 192 l^2 r R^4 + 1008 r^3 R^4 - 16 l^2 R^5 + 816 r^2 R^5 + 256 r R^6\big)\}$$

$$\{X34,\ X(4)\text{-BETH CONJUGATE OF } X(4),\ X73,$$
$$\text{CROSSPOINT OF INCENTER AND CIRCUMCENTER},\ -\frac{16 r^4 R^2 (r + 2 R)^2 (l^2 - 3 r^2 - 4 r R - 4 R^2)}{(l^2 - r^2 - 6 r R - 4 R^2)^2 (l^2 + r^2 - 2 r R - 4 R^2)^2}\}$$

$$\{X34,\ X(4)\text{-BETH CONJUGATE OF } X(4),\ X74,\ \text{ISOGONAL CONJUGATE OF EULER INFINITY POINT},$$
$$\big(R \big(12 l^4 r^3 - 16 l^2 r^5 + 4 r^7 + 9 l^6 R - 45 l^4 r^2 R - 9 l^2 r^4 R - 3 r^6 R - 156 l^4 r R^2 + 408 l^2 r^3 R^2 -$$
$$252 r^5 R^2 - 108 l^4 R^3 + 1240 l^2 r^2 R^3 - 1388 r^4 R^3 + 1248 l^2 r R^4 - 3424 r^3 R^4 + 432 l^2 R^5 -$$
$$4240 r^2 R^5 - 2496 r R^6 - 576 R^7\big)\big) / \big((2 l^2 - 2 r^2 - 8 r R - 9 R^2)\ (l^2 - r^2 - 6 r R - 4 R^2)^2\big)\}$$

$$\{X34,\ X(4)\text{-BETH CONJUGATE OF } X(4),\ X75,$$
$$\text{ISOTOMIC CONJUGATE OF INCENTER},\ \frac{1}{(l^2 + r^2 + 4 r R)^2 (l^2 - r^2 - 6 r R - 4 R^2)^2}$$
$$\big(l^{10} + l^8 r^2 - 2 l^6 r^4 - 2 l^4 r^6 + l^2 r^8 + r^{10} - 28 l^8 r R + 40 l^6 r^3 R - 48 l^4 r^5 R + 24 l^2 r^7 R + 12 r^9 R - 8 l^8 R^2 +$$
$$200 l^6 r^2 R^2 - 328 l^4 r^4 R^2 + 216 l^2 r^6 R^2 + 48 r^8 R^2 + 176 l^6 r R^3 - 752 l^4 r^3 R^3 + 784 l^2 r^5 R^3 +$$
$$48 r^7 R^3 + 16 l^6 R^4 - 672 l^4 r^2 R^4 + 1040 l^2 r^4 R^4 - 128 r^6 R^4 - 256 l^4 r R^5 + 512 l^2 r^3 R^5 - 256 r^5 R^5\big)\}$$

$$\{X34,\ X(4)\text{-BETH CONJUGATE OF } X(4),\ X76,\ \text{3rd BROCARD POINT},$$
$$\big(l^{14} + 3 l^{12} r^2 + l^{10} r^4 - 5 l^8 r^6 - 5 l^6 r^8 + l^4 r^{10} + 3 l^2 r^{12} + r^{14} - 36 l^{12} r R - 48 l^{10} r^3 R + 28 l^8 r^5 R +$$
$$32 l^6 r^7 R - 12 l^4 r^9 R + 16 l^2 r^{11} R + 20 r^{13} R - 8 l^{12} R^2 + 424 l^{10} r^2 R^2 + 304 l^8 r^4 R^2 - 592 l^6 r^6 R^2 +$$
$$312 l^4 r^8 R^2 - 88 l^2 r^{10} R^2 + 160 r^{12} R^2 + 240 l^{10} r R^3 - 2128 l^8 r^3 R^3 - 1440 l^6 r^5 R^3 + 2528 l^4 r^7 R^3 -$$
$$848 l^2 r^9 R^3 + 624 r^{11} R^3 + 16 l^{10} R^4 - 2176 l^8 r^2 R^4 + 3552 l^6 r^4 R^4 + 6016 l^4 r^6 R^4 - 2800 l^2 r^8 R^4 +$$
$$1024 r^{10} R^4 - 384 l^8 r R^5 + 7296 l^6 r^3 R^5 + 4480 l^4 r^5 R^5 - 6784 l^2 r^7 R^5 - 512 r^9 R^5 + 2304 l^6 r^2 R^6 -$$
$$4608 l^4 r^4 R^6 - 12032 l^2 r^6 R^6 - 4096 r^8 R^6 - 4096 l^4 r^3 R^7 - 8192 l^2 r^5 R^7 - 4096 r^7 R^7\big) /$$
$$\big((l^2 - r^2 - 6 r R - 4 R^2)^2 (l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2)^2\big)\}$$

$$\{X34,\ X(4)\text{-BETH CONJUGATE OF } X(4),\ X77,\ \text{ISOGONAL CONJUGATE OF } X(33),$$
$$\big(r^2 R^2 \big(l^6 + 3 l^4 r^2 + 3 l^2 r^4 + r^6 - 28 l^4 r R + 16 l^2 r^3 R + 12 r^5 R - 8 l^4 R^2 + 56 l^2 r^2 R^2 + 48 r^4 R^2 + 176 l^2 r R^3 +$$
$$48 r^3 R^3 + 16 l^2 R^4 - 128 r^2 R^4 - 256 r R^5\big)\big) / \big((l^2 - r^2 - 6 r R - 4 R^2)^2 (l^2 - r R - 4 R^2)^2\big)\}$$

{X34, X(4)-BETH CONJUGATE OF X(4), X78, ISOGONAL CONJUGATE OF X(34),
$(R^2 (l^6 + 3 l^4 r^2 - 29 l^2 r^4 + 33 r^6 - 28 l^4 r R + 16 l^2 r^3 R + 108 r^5 R - 8 l^4 R^2 + 184 l^2 r^2 R^2 - 48 r^4 R^2 + 176 l^2 r R^3 - 528 r^3 R^3 + 16 l^2 R^4 - 640 r^2 R^4 - 256 r R^5)) / ((r - R)^2 (-l^2 + r^2 + 6 r R + 4 R^2)^2)$}

{X34, X(4)-BETH CONJUGATE OF X(4), X79, ISOGONAL CONJUGATE OF X(35),
$(4 r^2 (-2 l^6 + 6 l^4 r^2 - 6 l^2 r^4 + 2 r^6 + 26 l^4 r R - 48 l^2 r^3 R + 22 r^5 R + 16 l^4 R^2 - 134 l^2 r^2 R^2 + 102 r^4 R^2 - 136 l^2 r R^3 + 244 r^3 R^3 - 41 l^2 R^4 + 299 r^2 R^4 + 164 r R^5 + 36 R^6)) / ((2 r + 3 R)^2 (-l^2 + r^2 + 6 r R + 4 R^2)^2)$}

{X34, X(4)-BETH CONJUGATE OF X(4), X80, REFLECTION OF INCENTER IN FEUERBACH POINT,
$(4 r^2 (2 l^4 r - 4 l^2 r^3 + 2 r^5 - 2 l^4 R - 14 l^2 r^2 R + 16 r^4 R + 2 l^2 r R^2 + 38 r^3 R^2 + 17 l^2 R^3 + 13 r^2 R^3 - 44 r R^4 - 36 R^5)) / ((2 r - R) (-l^2 + r^2 + 6 r R + 4 R^2)^2)$}

{X34, X(4)-BETH CONJUGATE OF X(4), X81, CEVAPOINT OF INCENTER AND SYMMEDIAN POINT,
$-((r^2 R (2 l^6 r + 6 l^4 r^3 - 18 l^2 r^5 + 10 r^7 + 3 l^6 R - 11 l^4 r^2 R - 91 l^2 r^4 R + 99 r^6 R - 20 l^4 r R^2 - 216 l^2 r^3 R^2 + 428 r^5 R^2 - 8 l^4 R^3 - 200 l^2 r^2 R^3 + 1024 r^4 R^3 - 80 l^2 r R^4 + 1392 r^3 R^4 - 16 l^2 R^5 + 960 r^2 R^5 + 256 r R^6)) / ((l^2 - r^2 - r R)^2 (l^2 - r^2 - 6 r R - 4 R^2)^2))$}

{X34, X(4)-BETH CONJUGATE OF X(4), X82, ISOGONAL CONJUGATE OF X(38),
$-((r^2 R (4 l^{10} r + 12 l^8 r^3 - 104 l^6 r^5 + 200 l^4 r^7 - 156 l^2 r^9 + 44 r^{11} + 3 l^{10} R - 85 l^8 r^2 R - 278 l^6 r^4 R + 1530 l^4 r^6 R - 1901 l^2 r^8 R + 731 r^{10} R - 84 l^8 r R^2 + 376 l^6 r^3 R^2 + 3536 l^4 r^5 R^2 - 8824 l^2 r^7 R^2 + 4996 r^9 R^2 - 8 l^8 R^3 + 616 l^6 r^2 R^3 + 2456 l^4 r^4 R^3 - 20040 l^2 r^6 R^3 + 18384 r^8 R^3 + 80 l^6 r R^4 + 1008 l^4 r^3 R^4 - 25744 l^2 r^5 R^4 + 40784 r^7 R^4 - 16 l^6 R^5 + 1184 l^4 r^2 R^5 - 23824 l^2 r^4 R^5 + 59776 r^6 R^5 + 512 l^4 r R^6 - 16128 l^2 r^3 R^6 + 62720 r^5 R^6 - 5120 l^2 r^2 R^7 + 45056 r^4 R^7 + 16384 r^3 R^8)) / ((l^2 - r^2 - 6 r R - 4 R^2)^2 (l^4 - 4 l^2 r^2 + 3 r^4 - 9 l^2 r R + 19 r^3 R + 28 r^2 R^2)^2))$}

{X34, X(4)-BETH CONJUGATE OF X(4), X83, CEVAPOINT OF CENTROID AND SYMMEDIAN POINT,
$(l^{14} - 5 l^{12} r^2 + l^{10} r^4 + 19 l^8 r^6 - 5 l^6 r^8 - 23 l^4 r^{10} + 3 l^2 r^{12} + 9 r^{14} - 52 l^{12} r R + 208 l^{10} r^3 R - 276 l^8 r^5 R + 416 l^6 r^7 R - 764 l^4 r^9 R + 400 l^2 r^{11} R + 68 r^{13} R - 8 l^{12} R^2 + 1000 l^{10} r^2 R^2 - 3568 l^8 r^4 R^2 + 6576 l^6 r^6 R^2 - 9992 l^4 r^8 R^2 + 7528 l^2 r^{10} R^2 - 1024 r^{12} R^2 + 368 l^{10} r R^3 - 10384 l^8 r^3 R^3 + 34272 l^6 r^5 R^3 - 62240 l^4 r^7 R^3 + 60592 l^2 r^9 R^3 - 17488 r^{11} R^3 + 16 l^{10} R^4 - 6144 l^8 r^2 R^4 + 69728 l^6 r^4 R^4 - 196864 l^4 r^6 R^4 + 258704 l^2 r^8 R^4 - 111616 r^{10} R^4 - 640 l^8 r R^5 + 51584 l^6 r^3 R^5 - 318848 l^4 r^5 R^5 + 629888 l^2 r^7 R^5 - 392704 r^9 R^5 + 9472 l^6 r^2 R^6 - 246272 l^4 r^4 R^6 + 881920 l^2 r^6 R^6 - 831488 r^8 R^6 - 65536 l^4 r^3 R^7 + 667648 l^2 r^5 R^7 - 1069056 r^7 R^7 + 212992 l^2 r^4 R^8 - 786432 r^6 R^8 - 262144 r^5 R^9) / ((l^2 - r^2 - 6 r R - 4 R^2)^2 (5 l^4 - 6 l^2 r^2 + 5 r^4 - 40 l^2 r R + 40 r^3 R + 80 r^2 R^2)^2)$}

{X34, X(4)-BETH CONJUGATE OF X(4), X84, ISOGONAL CONJUGATE OF X(40),
$-((4 R (-l^6 r + 2 l^4 r^3 - 3 l^2 r^5 + 2 r^7 + l^6 R + 14 l^4 r^2 R - 22 l^2 r^4 R + 17 r^6 R - 4 l^4 r R^2 - 76 l^2 r^3 R^2 + 72 r^5 R^2 - 12 l^4 R^3 - 28 l^2 r^2 R^3 + 160 r^4 R^3 + 80 l^2 r R^4 + 128 r^3 R^4 + 48 l^2 R^5 - 112 r^2 R^5 - 192 r R^6 - 64 R^7)) / (r^2 (-l^2 + r^2 + 6 r R + 4 R^2)^2))$}

{X34, X(4)-BETH CONJUGATE OF X(4), X85, ISOTOMIC CONJUGATE OF X(9),
$((l^2 - r^2 - 4 r R)^2 (l^6 + 3 l^4 r^2 + 3 l^2 r^4 + r^6 - 28 l^4 r R + 16 l^2 r^3 R + 12 r^5 R - 8 l^4 R^2 + 56 l^2 r^2 R^2 + 48 r^4 R^2 + 176 l^2 r R^3 + 48 r^3 R^3 + 16 l^2 R^4 - 128 r^2 R^4 - 256 r R^5)) / ((l^2 - r^2 - 6 r R - 4 R^2)^2 (l^2 + r^2 + 8 r R + 16 R^2)^2)$}

{X34, X(4)-BETH CONJUGATE OF X(4), X86, CEVAPOINT OF INCENTER AND CENTROID,
$((1 - r)^2 (1 + r)^2 (l^6 + 3 l^4 r^2 + 3 l^2 r^4 + r^6 - 28 l^4 r R + 16 l^2 r^3 R + 12 r^5 R - 8 l^4 R^2 + 56 l^2 r^2 R^2 + 48 r^4 R^2 + 176 l^2 r R^3 + 48 r^3 R^3 + 16 l^2 R^4 - 128 r^2 R^4 - 256 r R^5)) / ((5 l^2 + r^2 + 4 r R)^2 (l^2 - r^2 - 6 r R - 4 R^2)^2)$}

{X34, X(4)-BETH CONJUGATE OF X(4), X87,
X(2)-CROSS CONJUGATE OF X(1), $(4 r^2 R^2 (l^2 - 3 r^2 - 4 r R)^2 (3 l^2 - r^2 - 8 r R - 16 R^2) (l^4 + 2 l^2 r^2 + r^4 - 20 l^2 r R + 12 r^3 R - 4 l^2 R^2 + 44 r^2 R^2 + 64 r R^3)) / ((l^2 - r^2 - 6 r R - 4 R^2)^2 (l^4 + 2 l^2 r^2 + r^4 - 20 l^2 r R + 12 r^3 R + 32 r^2 R^2)^2)$}

{X34, X(4)-BETH CONJUGATE OF X(4), X88, ISOGONAL CONJUGATE OF X(44),
$-((r^2 R (6 l^6 r + 18 l^4 r^3 - 150 l^2 r^5 + 126 r^7 - 5 l^6 R - 147 l^4 r^2 R + 285 l^2 r^4 R + 315 r^6 R + 44 l^4 r R^2 + 216 l^2 r^3 R^2 - 324 r^5 R^2 + 56 l^4 R^3 + 984 l^2 r^2 R^3 - 1440 r^4 R^3 - 912 l^2 r R^4 - 1296 r^3 R^4 - 144 l^2 R^5 - 576 r^2 R^5 + 2304 r R^6)) / ((l^2 + 3 r^2 - 15 r R)^2 (l^2 - r^2 - 6 r R - 4 R^2)^2))$}

$$\{X34,\ X(4)\text{-BETH CONJUGATE OF } X(4),\ X89,\ \text{ISOGONAL CONJUGATE OF } X(45),$$
$$-\left(\left(r^2 R\left(12 l^6 r+180 l^4 r^3-588 l^2 r^5+396 r^7+7 l^6 R+213 l^4 r^2 R-2319 l^2 r^4 R+3123 r^6 R+92 l^4 r R^2-5904 l^2 r^3 R^2+11124 r^5 R^2+8 l^4 R^3-4584 l^2 r^2 R^3+22752 r^4 R^3-1392 l^2 r R^4+26352 r^3 R^4-144 l^2 R^5+13248 r^2 R^5+2304 r R^6\right)\right)\Big/\left(\left(2 l^2-6 r^2+3 r R\right)^2\left(l^2-r^2-6 r R-4 R^2\right)^2\right)\right)\}$$

$$\{X34,\ X(4)\text{-BETH CONJUGATE OF } X(4),\ X90,\ X(3)\text{-CROSS CONJUGATE OF } X(1),$$
$$\left(4 r^2 R\left(l^6 r-2 l^4 r^3+3 l^2 r^5-2 r^7-16 l^4 r^2 R+29 l^2 r^4 R-23 r^6 R-17 l^4 r R^2+112 l^2 r^3 R^2-115 r^5 R^2+2 l^4 R^3+168 l^2 r^2 R^3-318 r^4 R^3+72 l^2 r R^4-496 r^3 R^4-17 l^2 R^5-381 r^2 R^5-76 r R^6+36 R^7\right)\right)\Big/\left(\left(l^2-r^2-6 r R-4 R^2\right)^2\left(r^2+2 r R-R^2\right)^2\right)\}$$

$$\{X34,\ X(4)\text{-BETH CONJUGATE OF } X(4),\ X91,\ \text{ISOGONAL CONJUGATE OF } X(47),$$
$$\frac{1}{\left(l^2-r^2-6 r R-4 R^2\right)^2\left(l^2 r+r^3-l^2 R+3 r^2 R+2 r R^2+2 R^3\right)^2}$$
$$r^2\left(l^{10}+l^8 r^2-2 l^6 r^4-2 l^4 r^6+l^2 r^8+r^{10}-32 l^8 r R+40 l^6 r^3 R-40 l^4 r^5 R+24 l^2 r^7 R+8 r^9 R-12 l^8 R^2+280 l^6 r^2 R^2-400 l^4 r^4 R^2+264 l^2 r^6 R^2-4 r^8 R^2+352 l^6 r R^3-1520 l^4 r^3 R^3+1472 l^2 r^5 R^3-304 r^7 R^3+48 l^6 R^4-2368 l^4 r^2 R^4+4384 l^2 r^4 R^4-1712 r^6 R^4-1360 l^4 r R^5+7264 l^2 r^3 R^5-4944 r^5 R^5-64 l^4 R^6+6240 l^2 r^2 R^6-8544 r^4 R^6+2176 l^2 r R^7-8960 r^3 R^7-16 l^2 R^8-5200 r^2 R^8-1216 r R^9+64 R^{10}\right)\}$$

$$\{X34,\ X(4)\text{-BETH CONJUGATE OF } X(4),\ X92,\ \text{CEVAPOINT OF INCENTER AND CLAWSON POINT},$$
$$\left((1-r-2 R)^2(1+r+2 R)^2\left(l^6+3 l^4 r^2+3 l^2 r^4+r^6-28 l^4 r R-4 r^5 R-8 l^4 R^2+136 l^2 r^2 R^2-32 r^4 R^2+176 l^2 r R^3-240 r^3 R^3+16 l^2 R^4-448 r^2 R^4-256 r R^5\right)\right)\Big/\left(\left(l^2+r^2-4 R^2\right)^2\left(l^2-r^2-6 r R-4 R^2\right)^2\right)\}$$

$$\{X34,\ X(4)\text{-BETH CONJUGATE OF } X(4),\ X93,\ \text{ISOGONAL CONJUGATE OF } X(49),$$
$$\left((1-r-2 R)^2(1+r+2 R)^2\left(l^{10}+5 l^8 r^2+10 l^6 r^4+10 l^4 r^6+5 l^2 r^8+r^{10}-28 l^8 r R-72 l^6 r^3 R-48 l^4 r^5 R+8 l^2 r^7 R+12 r^9 R-10 l^8 R^2+156 l^6 r^2 R^2+272 l^4 r^4 R^2-92 l^2 r^6 R^2+58 r^8 R^2+240 l^6 r R^3+56 l^4 r^3 R^3-544 l^2 r^5 R^3+152 r^7 R^3+32 l^6 R^4-964 l^4 r^2 R^4-1320 l^2 r^4 R^4+316 r^6 R^4-680 l^4 r R^5-136 l^2 r^3 R^5+736 r^5 R^5-34 l^4 R^6+1440 l^2 r^2 R^6+1074 r^4 R^6+752 l^2 r R^7+152 r^3 R^7+7 l^2 R^8-637 r^2 R^8-284 r R^9+4 R^{10}\right)\right)\Big/\left(\left(l^2-r^2-6 r R-4 R^2\right)^2\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-8 l^2 R^2+24 r^2 R^2+32 r R^3+13 R^4\right)^2\right)\}$$

$$\{X34,\ X(4)\text{-BETH CONJUGATE OF } X(4),\ X94,\ \text{ISOGONAL CONJUGATE OF } X(50),$$
$$\left(l^{14}+3 l^{12} r^2+l^{10} r^4-5 l^8 r^6-5 l^6 r^8+l^4 r^{10}+3 l^2 r^{12}+r^{14}-36 l^{12} r R-48 l^{10} r^3 R+28 l^8 r^5 R+32 l^6 r^7 R-12 l^4 r^9 R+16 l^2 r^{11} R+20 r^{13} R-20 l^{12} R^2+388 l^{10} r^2 R^2+352 l^8 r^4 R^2-520 l^6 r^6 R^2+252 l^4 r^8 R^2-124 l^2 r^{10} R^2+184 r^{12} R^2+648 l^{10} r R^3-1864 l^8 r^3 R^3-2400 l^6 r^5 R^3+3392 l^4 r^7 R^3-1832 l^2 r^9 R^3+1032 r^{11} R^3+166 l^{10} R^4-6238 l^8 r^2 R^4+3492 l^6 r^4 R^4+12076 l^4 r^6 R^4-10186 l^2 r^8 R^4+4018 r^{10} R^4-4800 l^8 r R^5+26304 l^6 r^3 R^5+7312 l^4 r^5 R^5-30400 l^2 r^7 R^5+11824 r^9 R^5-732 l^8 R^6+37836 l^6 r^2 R^6-48372 l^4 r^4 R^6-42092 l^2 r^6 R^6+26864 r^8 R^6+18696 l^6 r R^7-120760 l^4 r^3 R^7+15592 l^2 r^5 R^7+42440 r^7 R^7+1809 l^6 R^8-111885 l^4 r^2 R^8+152151 l^2 r^4 R^8+28773 r^6 R^8-40284 l^4 r R^9+234240 l^2 r^3 R^9-45732 r^5 R^9-2376 l^4 R^{10}+161928 l^2 r^2 R^{10}-142848 r^4 R^{10}+45360 l^2 r R^{11}-163440 r^3 R^{11}+1296 l^2 R^{12}-91584 r^2 R^{12}-20736 r R^{13}\right)\Big/\left(\left(l^2-r^2-6 r R-4 R^2\right)^2\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-12 l^2 R^2+28 r^2 R^2+48 r R^3+27 R^4\right)^2\right)\}$$

$$\{X34,\ X(4)\text{-BETH CONJUGATE OF } X(4),\ X95,\ \text{CEVAPOINT OF CENTROID AND CIRCUMCENTER},$$
$$\left(l^{14}+19 l^{12} r^2+17 l^{10} r^4-37 l^8 r^6-37 l^6 r^8+17 l^4 r^{10}+19 l^2 r^{12}+r^{14}-36 l^{12} r R-496 l^{10} r^3 R+220 l^8 r^5 R+1376 l^6 r^7 R-1228 l^4 r^9 R+144 l^2 r^{11} R+20 r^{13} R-16 l^{12} R^2+200 l^{10} r^2 R^2+4360 l^8 r^4 R^2-5072 l^6 r^6 R^2-2208 l^4 r^8 R^2+8 l^2 r^{10} R^2+168 r^{12} R^2+496 l^{10} r R^3+2608 l^8 r^3 R^3-20512 l^6 r^5 R^3+14560 l^4 r^7 R^3-3024 l^2 r^9 R^3+752 r^{11} R^3+96 l^{10} R^4-3632 l^8 r^2 R^4-25984 l^6 r^4 R^4+55328 l^4 r^6 R^4-12768 l^2 r^8 R^4+1808 r^{10} R^4-2496 l^8 r R^5+512 l^6 r^3 R^5+74624 l^4 r^5 R^5-27136 l^2 r^7 R^5+1600 r^9 R^5-256 l^8 R^6+14592 l^6 r^2 R^6+43520 l^4 r^4 R^6-39680 l^2 r^6 R^6-2816 r^8 R^6+5376 l^6 r R^7-9984 l^4 r^3 R^7-45312 l^2 r^5 R^7-9472 r^7 R^7+256 l^6 R^8-17920 l^4 r^2 R^8-32512 l^2 r^4 R^8-10240 r^6 R^8-4096 l^4 r R^9-8192 l^2 r^3 R^9-4096 r^5 R^9\right)\Big/\left(\left(l^2-r^2-6 r R-4 R^2\right)^2\left(l^4+18 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-4 l^2 R^2+20 r^2 R^2+16 r R^3\right)^2\right)\}$$

$$\{X34,\ X(4)\text{-BETH CONJUGATE OF } X(4),\ X96,\ \text{ISOGONAL CONJUGATE OF } X(52),$$
$$-\Big(\big(l^{14}-13\,l^{12}r^2-15\,l^{10}r^4+27\,l^8r^6+27\,l^6r^8-15\,l^4r^{10}-13\,l^2r^{12}+r^{14}-36\,l^{12}r\,R+392\,l^{10}r^3R+68\,l^8r^5R-1072\,l^6r^7R+964\,l^4r^9R-344\,l^2r^{11}R+28\,r^{13}R-20\,l^{12}R^2+768\,l^{10}r^2R^2-4292\,l^8r^4R^2+1504\,l^6r^6R^2+4516\,l^4r^8R^2-2784\,l^2r^{10}R^2+308\,r^{12}R^2+592\,l^{10}r\,R^3-9744\,l^8r^3R^3+24832\,l^6r^5R^3-6720\,l^4r^7R^3-7504\,l^2r^9R^3+1616\,r^{11}R^3+168\,l^{10}R^4-8776\,l^8r^2R^4+65104\,l^6r^4R^4-84624\,l^4r^6R^4+13704\,l^2r^8R^4+2904\,r^{10}R^4-3968\,l^8r\,R^5+73408\,l^6r^3R^5-231680\,l^4r^5R^5+142912\,l^2r^7R^5-12416\,r^9R^5-768\,l^8R^6+43104\,l^6r^2R^6-317792\,l^4r^4R^6+416544\,l^2r^6R^6-93984\,r^8R^6+13888\,l^6r\,R^7-242624\,l^4r^3R^7+661056\,l^2r^5R^7-285888\,r^7R^7+2064\,l^6R^8-106576\,l^4r^2R^8+633072\,l^2r^4R^8-515504\,r^6R^8-26816\,l^4r\,R^9+370560\,l^2r^3R^9-595648\,r^5R^9-3264\,l^4R^{10}+130944\,l^2r^2R^{10}-447168\,r^4R^{10}+27136\,l^2r\,R^{11}-214528\,r^3R^{11}+2816\,l^2R^{12}-63744\,r^2R^{12}-11264\,r\,R^{13}-1024\,R^{14}\big)\Big/\Big(\big(l^2-r^2-6\,r\,R-4\,R^2\big)^2\big(l^4-14\,l^2r^2+r^4-8\,l^2r\,R+8\,r^3R+16\,r^2R^2-4\,R^4\big)^2\Big)\Big)\}$$

$$\{X34,\ X(4)\text{-BETH CONJUGATE OF } X(4),\ X97,\ \text{ISOGONAL CONJUGATE OF } X(53),$$
$$\Big(R\,\big(-24\,l^8r^5+176\,l^6r^7-224\,l^4r^9+80\,l^2r^{11}-8\,r^{13}+6\,l^{10}r^2R-66\,l^8r^4R+580\,l^6r^6R-1804\,l^4r^8R+1206\,l^2r^{10}R-178\,r^{12}R+4\,l^{10}r\,R^2-212\,l^8r^3R^2+1936\,l^6r^5R^2-7280\,l^4r^7R^2+8108\,l^2r^9R^2-1788\,r^{11}R^2+l^{10}R^3-207\,l^8r^2R^3+3642\,l^6r^4R^3-19230\,l^4r^6R^3+32197\,l^2r^8R^3-10707\,r^{10}R^3-100\,l^8r\,R^4+4088\,l^6r^3R^4-34256\,l^4r^5R^4+84040\,l^2r^7R^4-42508\,r^9R^4-16\,l^8R^5+2552\,l^6r^2R^5-39752\,l^4r^4R^5+151080\,l^2r^6R^5-117704\,r^8R^5+880\,l^6r\,R^6-30032\,l^4r^3R^6+189776\,l^2r^5R^6-232816\,r^7R^6+96\,l^6R^7-14000\,l^4r^2R^7+165184\,l^2r^4R^7-331248\,r^6R^7-3520\,l^4r\,R^8+96384\,l^2r^3R^8-336576\,r^5R^8-256\,l^4R^9+34816\,l^2r^2R^9-238592\,r^4R^9+6400\,l^2r\,R^{10}-112384\,r^3R^{10}+256\,l^2R^{11}-31744\,r^2R^{11}-4096\,r\,R^{12}\big)\Big)\Big/\Big(\big(l^2-r^2-6\,r\,R-4\,R^2\big)^2\big(l^4-6\,l^2r^2+r^4-8\,l^2r\,R+8\,r^3R-7\,l^2R^2+23\,r^2R^2+28\,r\,R^3+12\,R^4\big)^2\Big)\}$$

$$\{X34,\ X(4)\text{-BETH CONJUGATE OF } X(4),\ X98,\ \text{TarryPoint},$$
$$-\Big(\big(l^{10}+l^8r^2-2\,l^6r^4-2\,l^4r^6+l^2r^8+r^{10}-28\,l^8r\,R+72\,l^4r^5R-64\,l^2r^7R+20\,r^9R-12\,l^8R^2+272\,l^6r^2R^2-152\,l^4r^4R^2-240\,l^2r^6R^2+132\,r^8R^2+256\,l^6r\,R^3-1248\,l^4r^3R^3+448\,l^2r^5R^3+288\,r^7R^3+48\,l^6R^4-1776\,l^4r^2R^4+3088\,l^2r^4R^4-400\,r^6R^4-704\,l^4r\,R^5+4864\,l^2r^3R^5-2880\,r^5R^5-64\,l^4R^6+2944\,l^2r^2R^6-4928\,r^4R^6+512\,l^2r\,R^7-3584\,r^3R^7-1024\,r^2R^8\big)\Big/\Big(\big(l^2-r^2-6\,r\,R-4\,R^2\big)^2\big(l^4-14\,l^2r^2+r^4-8\,l^2r\,R+8\,r^3R+16\,r^2R^2\big)\Big)\Big)\}$$

$$\{X34,\ X(4)\text{-BETH CONJUGATE OF } X(4),\ X99,\ \text{STEINER POINT},$$
$$\Big(l^{10}+l^8r^2-2\,l^6r^4-2\,l^4r^6+l^2r^8+r^{10}-28\,l^8r\,R+8\,l^6r^3R-48\,l^4r^5R+56\,l^2r^7R+12\,r^9R-8\,l^8R^2+200\,l^6r^2R^2-8\,l^4r^4R^2+152\,l^2r^6R^2+48\,r^8R^2+176\,l^6r\,R^3-368\,l^4r^3R^3-112\,l^2r^5R^3+48\,r^7R^3+16\,l^6R^4-672\,l^4r^2R^4-880\,l^2r^4R^4-128\,r^6R^4-256\,l^4r\,R^5-512\,l^2r^3R^5-256\,r^5R^5\Big)\Big/\Big(\big(l^2-r^2-6\,r\,R-4\,R^2\big)^2\big(l^4-14\,l^2r^2+r^4-8\,l^2r\,R+8\,r^3R+16\,r^2R^2\big)\Big)\}$$

$$\{X34,\ X(4)\text{-BETH CONJUGATE OF } X(4),\ X100,\ \text{ANTICOMPLEMENT OF FEUERBACH POINT},$$
$$-\Big(\big(R\,\big(l^6-l^4r^2-9\,l^2r^4+9\,r^6-28\,l^4r\,R+56\,l^2r^3R+4\,r^5R-8\,l^4R^2+216\,l^2r^2R^2-224\,r^4R^2+176\,l^2r\,R^3-688\,r^3R^3+16\,l^2R^4-704\,r^2R^4-256\,r\,R^5\big)\big)\Big/\big((2\,r-R)\,\big(-l^2+r^2+6\,r\,R+4\,R^2\big)^2\big)\Big)\}$$

$$\Big\{X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),$$
$$X36,\ \text{INVERSE-IN-CIRCUMCIRCLE OF INCENTER},\ -\frac{16\,r^2R^3}{(2\,r-R)\,(2\,r+R)^2}\Big\}$$

$$\Big\{X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),\ X37,\ \text{CrosspointOfIncenterAndCentroid},$$
$$-\frac{4\,r^2R\,\big(4\,l^4r-4\,l^2r^3-12\,l^2r^2R-21\,l^2r\,R^2+r^3R^2-l^2R^3+8\,r^2R^3+16\,r\,R^4\big)}{(2\,r+R)^2\,\big(l^2+r^2+4\,r\,R\big)^2}\Big\}$$

$$\Big\{X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),\ X38,\ \text{CROSSPOINT OF } X(1)\ \text{AND } X(75),$$
$$-\frac{4\,r^2R\,\big(4\,l^4r-16\,l^2r^3+12\,r^5-52\,l^2r^2R+92\,r^4R-14\,l^2r\,R^2+202\,r^3R^2-l^2R^3+99\,r^2R^3+16\,r\,R^4\big)}{(2\,r+R)^2\,\big(l^2+r^2-2\,r\,R\big)^2}\Big\}$$

$$\{X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),\ X39,\ \text{BrocardMidpoint},$$
$$-\left(\left(4 r^2 R^2 \left(-2 l^8+14 l^6 r^2-30 l^4 r^4+18 l^2 r^6+41 l^6 r R-173 l^4 r^3 R+171 l^2 r^5 R+r^7 R-l^6 R^2-242 l^4 r^2 R^2+495 l^2 r^4 R^2+16 r^6 R^2+24 l^4 r R^3+360 l^2 r^3 R^3+96 r^5 R^3-144 l^2 r^2 R^4+256 r^4 R^4+256 r^3 R^5\right)\right)\Big/\left((2 r+R)^2 \left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)^2\right)\right)\}$$

$$\left\{X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),\ X40,\ \text{BEVAN POINT},\ -\frac{4 (2 r-R) R (r+R)^2}{(2 r+R)^2}\right\}$$

$$\{X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),\ X41,\ X(6)\text{-CEVA CONJUGATE OF } X(31),$$
$$-\frac{4 r^2 R^2 \left(-l^2 r+r^3-l^2 R+8 r^2 R+16 r R^2\right) \left(8 l^2 r+5 l^2 R+r^2 R+8 r R^2+16 R^3\right)}{(2 r+R)^2 \left(-3 l^2 r+r^3-2 l^2 R+8 r^2 R+16 r R^2\right)^2}\}$$

$$\{X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),$$
$$X42,\ \text{CROSSPOINT OF INCENTER AND SYMMEDIAN POINT},$$
$$-\frac{4 r^2 R^2 \left(-2 l^4+16 l^2 r^2+2 r^4+16 l^2 r R+16 r^3 R-l^2 R^2+27 r^2 R^2+16 r R^3\right)}{(2 r+R)^2 \left(l^2+r^2-2 r R\right)^2}\}$$

$$\{X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),\ X43,\ X(6)\text{-CEVA CONJUGATE OF } X(1),$$
$$\frac{4 r^2 R \left(2 l^4 r+4 l^2 r^3+2 r^5+3 l^4 R-34 l^2 r^2 R+27 r^4 R-44 l^2 r R^2+84 r^3 R^2+4 l^2 R^3+52 r^2 R^3-64 r R^4\right)}{(2 r+R)^2 \left(l^2+r^2-8 r R\right)^2}\}$$

$$\{X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),\ X44,\ X(6)\text{-LINE CONJUGATE OF } X(1),$$
$$-\frac{4 r^2 R \left(-4 l^4 r-12 l^2 r^3-4 l^4 R+48 l^2 r^2 R+51 l^2 r R^2+9 r^3 R^2-9 l^2 R^3+72 r^2 R^3+144 r R^4\right)}{(2 r+R)^2 \left(-l^2+3 r^2+12 r R\right)^2}\}$$

$$\{X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),\ X45,\ X(9)\text{-BETH CONJUGATE OF } X(1),$$
$$-\frac{4 r^2 R \left(8 l^4 r-24 l^2 r^3+2 l^4 R-30 l^2 r^2 R-69 l^2 r R^2+9 r^3 R^2-9 l^2 R^3+72 r^2 R^3+144 r R^4\right)}{(2 r+R)^2 \left(l^2+3 r^2+12 r R\right)^2}\}$$

$$\{X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),$$
$$X46,\ X(4)\text{-CEVA CONJUGATE OF } X(1),\ -\frac{4 r^2 (2 r-R) R (r+2 R)^2}{(r-R)^2 (2 r+R)^2}\}$$

$$\{X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),\ X47,\ X(110)\text{-BETH CONJUGATE OF } X(34),$$
$$\frac{4 r^2 R^2 \left(2 l^4-12 l^2 r^2+2 r^4-18 l^2 r R+14 r^3 R-5 l^2 R^2+31 r^2 R^2+20 r R^3+4 R^4\right)}{(2 r+R)^2 \left(-l^2+3 r^2+6 r R+2 R^2\right)^2}\}$$

$$\{X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),\ X48,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(63),$$
$$-\left(\left(4 R^2 \left(-8 l^4 r^2+8 l^2 r^4+7 l^4 r R+24 l^2 r^3 R+r^5 R+l^4 R^2-7 l^2 r^2 R^2+12 r^4 R^2-48 l^2 r R^3+52 r^3 R^3-4 l^2 R^4+96 r^2 R^4+64 r R^5\right)\right)\Big/\left((2 r+R)^2 \left(-3 l^2+r^2+6 r R+8 R^2\right)^2\right)\right)\}$$

$$\{X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),\ X49,\ \text{CENTER OF SINE-TRIPLE-ANGLE CIRCLE},$$
$$\left(R^2 \left(20 l^4 r^2-40 l^2 r^4+4 r^6-8 l^4 r R-104 l^2 r^3 R+32 r^5 R-l^4 R^2-38 l^2 r^2 R^2+75 r^4 R^2+66 l^2 r R^3+10 r^3 R^3+4 l^2 R^4-136 r^2 R^4-110 r R^5+R^6\right)\right)\Big/\left((2 r+R)^2 \left(-2 l^2+2 r^2+8 r R+7 R^2\right)^2\right)\}$$

$$\{X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),\ X50,\ X(74)\text{-CEVA CONJUGATE OF } X(184),$$
$$-\left(\left(4 r^2 R^2 \left(-2 l^8+22 l^6 r^2-30 l^4 r^4+10 l^2 r^6+29 l^6 r R-141 l^4 r^3 R+87 l^2 r^5 R+r^7 R+11 l^6 R^2-222 l^4 r^2 R^2+279 l^2 r^4 R^2+16 r^6 R^2-120 l^4 r R^3+406 l^2 r^3 R^3+102 r^5 R^3-12 l^4 R^4+264 l^2 r^2 R^4+328 r^4 R^4+51 l^2 r R^5+553 r^3 R^5-9 l^2 R^6+456 r^2 R^6+144 r R^7\right)\right)\Big/\left((2 r+R)^2 \left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-3 l^2 R^2+19 r^2 R^2+12 r R^3\right)^2\right)\right)\}$$

$$\left\{X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),\ X51,\ \text{CENTROID OF ORTHIC TRIANGLE},\ -\frac{1}{36R^2(2r+R)^2}\left(4l^4r^2+72l^2r^4+4r^6+4l^4rR+40l^2r^3R+36r^5R+l^4R^2-54l^2r^2R^2+89r^4R^2-36l^2rR^3-4r^3R^3-4l^2R^4-180r^2R^4+64rR^5\right)\right\}$$

$$\left\{X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),\ X52,\ \text{ORTHOCENTER OF ORTHIC TRIANGLE},\ \frac{1}{4R^2(2r+R)^2}\left(4l^4r^2-56l^2r^4+4r^6+4l^4rR-88l^2r^3R+36r^5R+l^4R^2-38l^2r^2R^2+105r^4R^2-12l^2rR^3+116r^3R^3-4l^2R^4+68r^2R^4+8rR^5+4R^6\right)\right\}$$

$$\left\{X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),\ X53,\ \text{SYMMEDIAN POINT OF ORTHIC TRIANGLE},\ -\left(\left(4r^2\left(-4l^8r^2+28l^6r^4-28l^4r^6+4l^2r^8-2l^8rR+66l^6r^3R-198l^4r^5R+54l^2r^7R-2l^8R^2+92l^6r^2R^2-530l^4r^4R^2+304l^2r^6R^2+51l^6rR^3-705l^4r^3R^3+909l^2r^5R^3+r^7R^3+15l^6R^4-550l^4r^2R^4+1527l^2r^4R^4+16r^6R^4-224l^4rR^5+1416l^2r^3R^5+104r^5R^5-24l^4R^6+680l^2r^2R^6+352r^4R^6+144l^2rR^7+656r^3R^7-16l^2R^8+640r^2R^8+256rR^9\right)\right)\Big/\left((2r+R)^2\left(l^4-6l^2r^2+r^4-8l^2rR+8r^3R-4l^2R^2+20r^2R^2+16rR^3\right)^2\right)\right)\right\}$$

$$\left\{X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),\ X54,\ \text{KosnitaPoint},\ -\left(\left(R^2\left(-16l^4r^2+48l^2r^4+8l^4rR+80l^2r^3R+8r^5R-24l^2r^2R^2+72r^4R^2-48l^2rR^3+208r^3R^3+l^2R^4+205r^2R^4+60rR^5-4R^6\right)\right)\Big/\left((2r+R)^2\left(-2l^2+2r^2+8rR+5R^2\right)^2\right)\right)\right\}$$

$$\left\{X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),\ X55,\ \text{INSIMILICENTER(CIRCUMCIRCLE, INCIRCLE)},\ -\frac{r^2(2r-R)R^3}{(r+R)^2(2r+R)^2}\right\}$$

$$\left\{X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),\ X56,\ \text{EXSIMILICENTER(CIRCUMCIRCLE, INCIRCLE)},\ -\frac{9r^2(2r-R)R^3}{(r-R)^2(2r+R)^2}\right\}$$

$$\left\{X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),\ X57,\ \text{ISOGONAL CONJUGATE OF } X(9),\ -\frac{4r^2(2r-R)R(r+3R)^2}{(r-2R)^2(2r+R)^2}\right\}$$

$$\left\{X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),\ X58,\ \text{ISOGONAL CONJUGATE OF } X(10),\ -\frac{4r^2R^2\left(-2l^4+16l^2r^2+2r^4+16l^2rR+16r^3R-l^2R^2+27r^2R^2+16rR^3\right)}{(2r+R)^2\left(-l^2+3r^2+4rR\right)^2}\right\}$$

$$\left\{X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),\ X59,\ \text{ISOGONAL CONJUGATE OF } X(11),\ -\left(\left(r^2R^2\left(-8l^4r+24l^2r^3+12l^4R+4l^2r^2R+8r^4R-58l^2rR^2+78r^3R^2-83l^2R^3+249r^2R^3+296rR^4+144R^5\right)\right)\Big/\left((2r-R)(2r+R)^2\left(-l^2+r^2+5rR+4R^2\right)^2\right)\right)\right\}$$

$$\left\{X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),\ X60,\ \text{ISOGONAL CONJUGATE OF } X(12),\ -\frac{r^2R^2\left(-2l^2r+6r^3-l^2R+19r^2R+16rR^2\right)\left(8l^2r+4l^2R+2rR^2+9R^3\right)}{(2r+R)^2\left(-2l^2r+2r^3-l^2R+7r^2R+7rR^2\right)^2}\right\}$$

$$\left\{X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),\ X61,\ \text{ISOGONAL CONJUGATE OF } X(17),\ -\left(\left(12r^2R^2\left(-6l^4-2\sqrt{3}\,l^3r+42l^2r^2-2\sqrt{3}\,lr^3+3\sqrt{3}\,l^3R+59l^2rR-13\sqrt{3}\,lr^2R+3r^3R-4l^2R^2-20\sqrt{3}\,lrR^2+24r^2R^2+48rR^3\right)\right)\Big/\left((2r+R)^2\left(3l^2+2\sqrt{3}\,lr-3r^2-12rR\right)^2\right)\right)\right\}$$

$$\left\{X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),\ X62,\ \text{ISOGONAL CONJUGATE OF } X(18),\ -\left(\left(12r^2R^2\left(-6l^4+2\sqrt{3}\,l^3r+42l^2r^2+2\sqrt{3}\,lr^3-3\sqrt{3}\,l^3R+59l^2rR+13\sqrt{3}\,lr^2R+3r^3R-4l^2R^2+20\sqrt{3}\,lrR^2+24r^2R^2+48rR^3\right)\right)\Big/\left((2r+R)^2\left(3l^2-2\sqrt{3}\,lr-3r^2-12rR\right)^2\right)\right)\right\}$$

$$\left\{X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),\ X63,\ \text{ISOGONAL CONJUGATE OF } X(19),\ -\frac{R\left(-4 l^2 r^3+4 r^5-6 l^2 r^2 R+30 r^4 R-4 l^2 r R^2+72 r^3 R^2-l^2 R^3+59 r^2 R^3+16 r R^4\right)}{(r+R)^2 (2 r+R)^2}\right\}$$

$$\left\{X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),\ X64,\ \text{ISOGONAL CONJUGATE OF } X(20),\ \left(4 R^2\left(4 l^4 r^2-6 l^2 r^4+6 r^6+7 l^4 r R-47 l^2 r^3 R+52 r^5 R+3 l^4 R^2-111 l^2 r^2 R^2+201 r^4 R^2-96 l^2 r R^3+428 r^3 R^3-28 l^2 R^4+500 r^2 R^4+288 r R^5+64 R^6\right)\right)\Big/\left((2 r+R)^2 (-l+r+2 R)^2 (l+r+2 R)^2\right)\right\}$$

$$\left\{X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),\ X65,\ \text{ORTHOCENTER OF THE INTOUCH TRIANGLE},\ \frac{r^2 (-2 r+R)(2 r+3 R)^2}{R (2 r+R)^2}\right\}$$

$$\left\{X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),\ X66,\ \text{ISOGONAL CONJUGATE OF } X(22),\ \frac{1}{(2 r+R)^2 (-l+r+2 R)^2 (l+r+2 R)^2 \left(-l^2+r^2+4 r R\right)^2}\left(-4 l^{10} r^2+36 l^8 r^4-88 l^6 r^6+88 l^4 r^8-36 l^2 r^{10}+4 r^{12}-2 l^{10} r R+110 l^8 r^3 R-596 l^6 r^5 R+956 l^4 r^7 R-554 l^2 r^9 R+86 r^{11} R+78 l^8 r^2 R^2-1324 l^6 r^4 R^2+3968 l^4 r^6 R^2-3508 l^2 r^8 R^2+786 r^{10} R^2+10 l^8 r R^3-1124 l^6 r^3 R^3+7856 l^4 r^5 R^3-11740 l^2 r^7 R^3+3974 r^9 R^3-l^8 R^4-292 l^6 r^2 R^4+7510 l^4 r^4 R^4-22140 l^2 r^6 R^4+12107 r^8 R^4+16 l^6 r R^5+2936 l^4 r^3 R^5-23040 l^2 r^5 R^5+22648 r^7 R^5+4 l^6 R^6+132 l^4 r^2 R^6-11668 l^2 r^4 R^6+25228 r^6 R^6-80 l^4 r R^7-1728 l^2 r^3 R^7+15056 r^5 R^7+272 l^2 r^2 R^8+3392 r^4 R^8-256 r^3 R^9\right)\right\}$$

$$\left\{X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),\ X67,\ \text{ISOGONAL CONJUGATE OF } X(23),\ \frac{1}{(2 r+R)^2 \left(-l^2+r^2+4 r R\right)^2 \left(-2 l^2+2 r^2+8 r R+9 R^2\right)}\left(4 l^8 r^2-64 l^6 r^4+120 l^4 r^6-64 l^2 r^8+4 r^{10}-120 l^6 r^3 R+696 l^4 r^5 R-648 l^2 r^7 R+72 r^9 R-l^8 R^2-32 l^6 r^2 R^2+1266 l^4 r^4 R^2-2528 l^2 r^6 R^2+527 r^8 R^2+22 l^6 r R^3+738 l^4 r^3 R^3-4678 l^2 r^5 R^3+1998 r^7 R^3+4 l^6 R^4-24 l^4 r^2 R^4-3948 l^2 r^4 R^4+4112 r^6 R^4-72 l^4 r R^5-1028 l^2 r^3 R^5+4316 r^5 R^5+132 l^2 r^2 R^6+1760 r^4 R^6-64 r^3 R^7\right)\right\}$$

$$\left\{X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),\ X68,\ \text{PRASOLOV POINT},\ \left(-4 l^6 r^2+28 l^4 r^4-28 l^2 r^6+4 r^8-2 l^6 r R+74 l^4 r^3 R-190 l^2 r^5 R+54 r^7 R+70 l^4 r^2 R^2-512 l^2 r^4 R^2+298 r^6 R^2+18 l^4 r R^3-624 l^2 r^3 R^3+862 r^5 R^3+l^4 R^4-330 l^2 r^2 R^4+1381 r^4 R^4-52 l^2 r R^5+1172 r^3 R^5-4 l^2 R^6+452 r^2 R^6+48 r R^7+4 R^8\right)\Big/\left((2 r+R)^2 (-l+r+2 R)^2 (l+r+2 R)^2\right)\right\}$$

$$\left\{X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),\ X69,\ \text{SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},\ \left(32 l^4 r^4-32 l^2 r^6+2 l^6 r R+30 l^4 r^3 R-162 l^2 r^5 R+2 r^7 R+l^6 R^2-17 l^4 r^2 R^2-329 l^2 r^4 R^2+25 r^6 R^2-16 l^4 r R^3-184 l^2 r^3 R^3+104 r^5 R^3+144 r^4 R^4\right)\Big/\left((2 r+R)^2 \left(-l^2+r^2+4 r R\right)^2\right)\right\}$$

$$\left\{X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),\ X70,\ \text{ISOGONAL CONJUGATE OF } X(26),\ \left(-4 l^{10} r^2+36 l^8 r^4-88 l^6 r^6+88 l^4 r^8-36 l^2 r^{10}+4 r^{12}-2 l^{10} r R+110 l^8 r^3 R-596 l^6 r^5 R+956 l^4 r^7 R-554 l^2 r^9 R+86 r^{11} R+98 l^8 r^2 R^2-1452 l^6 r^4 R^2+4184 l^4 r^6 R^2-3636 l^2 r^8 R^2+806 r^{10} R^2+22 l^8 r R^3-1556 l^6 r^3 R^3+9416 l^4 r^5 R^3-13228 l^2 r^7 R^3+4322 r^9 R^3-692 l^6 r^2 R^4+11484 l^4 r^4 R^4-29004 l^2 r^6 R^4+14628 r^8 R^4-86 l^6 r R^5+7278 l^4 r^3 R^5-38986 l^2 r^5 R^5+32498 r^7 R^5-l^6 R^6+2039 l^4 r^2 R^6-31183 l^2 r^4 R^6+47705 r^6 R^6+154 l^4 r R^7-13600 l^2 r^3 R^7+45334 r^5 R^7+6 l^4 R^8-2652 l^2 r^2 R^8+26462 r^4 R^8-140 l^2 r R^9+8564 r^3 R^9-9 l^2 R^{10}+1259 r^2 R^{10}+52 r R^{11}+4 R^{12}\right)\Big/\left((2 r+R)^2 \left(l^4-2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-6 l^2 R^2+22 r^2 R^2+24 r R^3+7 R^4\right)^2\right)\right\}$$

$$\left\{X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),\ X71,\ \text{ISOGONAL CONJUGATE OF } X(27),\ -\left(\left(4 R^2\left(-4 l^4 r^2+12 l^2 r^4-7 l^4 r R+58 l^2 r^3 R+r^5 R-3 l^4 R^2+85 l^2 r^2 R^2+12 r^4 R^2+32 l^2 r R^3+52 r^3 R^3-4 l^2 R^4+96 r^2 R^4+64 r R^5\right)\right)\Big/\left((2 r+R)^2 \left(l^2+r^2+6 r R+8 R^2\right)^2\right)\right)\right\}$$

$$\left\{X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),\ X72,\ \text{ISOGONAL CONJUGATE OF } X(28),\ -\frac{-4\,l^2\,r^3+4\,r^5-4\,l^2\,r^2\,R+24\,r^4\,R-3\,l^2\,r\,R^2+51\,r^3\,R^2-l^2\,R^3+44\,r^2\,R^3+16\,r\,R^4}{R\,(2\,r+R)^2}\right\}$$

$$\left\{X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),\ X73,\ \text{CROSSPOINT OF INCENTER AND CIRCUMCENTER},\ \frac{4\,r^2\,R^2\,\left(-l^2+3\,r^2+4\,r\,R+4\,R^2\right)\,\left(-2\,l^2+2\,r^2+8\,r\,R+9\,R^2\right)}{(2\,r+R)^2\,\left(l^2+r^2-2\,r\,R-4\,R^2\right)^2}\right\}$$

$$\left\{X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),\ X74,\ \text{ISOGONAL CONJUGATE OF EULER INFINITY POINT},\ \frac{R^2\,(2\,r+3\,R)^2\,\left(-l^2+3\,r^2+4\,r\,R+4\,R^2\right)}{(2\,r+R)^2\,\left(-2\,l^2+2\,r^2+8\,r\,R+9\,R^2\right)}\right\}$$

$$\left\{X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),\ X75,\ \text{ISOTOMIC CONJUGATE OF INCENTER},\ \left(R\,\left(2\,l^6\,r-26\,l^4\,r^3+102\,l^2\,r^5+2\,r^7+l^6\,R-37\,l^4\,r^2\,R+307\,l^2\,r^4\,R+25\,r^6\,R-16\,l^4\,r\,R^2+184\,l^2\,r^3\,R^2+104\,r^5\,R^2+144\,r^4\,R^3\right)\right)\Big/\left((2\,r+R)^2\,\left(l^2+r^2+4\,r\,R\right)^2\right)\right\}$$

$$\left\{X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),\ X76,\ \text{3rd BROCARD POINT},\ \frac{1}{(2\,r+R)^2\,\left(l^4+2\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R+16\,r^2\,R^2\right)^2}\,R\,\left(2\,l^{10}\,r+10\,l^8\,r^3+20\,l^6\,r^5+20\,l^4\,r^7+10\,l^2\,r^9+2\,r^{11}+l^{10}\,R-35\,l^8\,r^2\,R-198\,l^6\,r^4\,R+778\,l^4\,r^6\,R-43\,l^2\,r^8\,R+41\,r^{10}\,R-24\,l^8\,r\,R^2+40\,l^6\,r^3\,R^2+1768\,l^4\,r^5\,R^2-1032\,l^2\,r^7\,R^2+336\,r^9\,R^2+144\,l^6\,r^2\,R^3+1024\,l^4\,r^4\,R^3-3632\,l^2\,r^6\,R^3+1376\,r^8\,R^3-256\,l^4\,r^3\,R^4-3328\,l^2\,r^5\,R^4+2816\,r^7\,R^4+2304\,r^6\,R^5\right)\right\}$$

$$\left\{X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),\ X77,\ \text{ISOGONAL CONJUGATE OF } X(33),\ \frac{r^2\,R\,\left(-4\,l^4\,r+4\,l^2\,r^3+6\,l^4\,R+10\,l^2\,r^2\,R-2\,l^2\,r\,R^2+2\,r^3\,R^2-59\,l^2\,R^3+25\,r^2\,R^3+104\,r\,R^4+144\,R^5\right)}{(2\,r+R)^2\,\left(-l^2+r\,R+4\,R^2\right)^2}\right\}$$

$$\left\{X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),\ X78,\ \text{ISOGONAL CONJUGATE OF } X(34),\ -\frac{R\,\left(-4\,l^2\,r^3+4\,r^5-2\,l^2\,r^2\,R+18\,r^4\,R-2\,l^2\,r\,R^2+34\,r^3\,R^2-l^2\,R^3+27\,r^2\,R^3+16\,r\,R^4\right)}{(r-R)^2\,(2\,r+R)^2}\right\}$$

$$\left\{X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),\ X79,\ \text{ISOGONAL CONJUGATE OF } X(35),\ \frac{4\,r^2\,\left(-12\,l^2\,r^2+4\,r^4-16\,l^2\,r\,R+32\,r^3\,R-5\,l^2\,R^2+87\,r^2\,R^2+92\,r\,R^3+36\,R^4\right)}{(2\,r+R)^2\,(2\,r+3\,R)^2}\right\}$$

$$\left\{X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),\ X80,\ \text{REFLECTION OF INCENTER IN FEUERBACH POINT},\ \frac{4\,r^2\,\left(-2\,l^2\,r+6\,r^3-l^2\,R+19\,r^2\,R+16\,r\,R^2\right)}{(2\,r-R)\,(2\,r+R)^2}\right\}$$

$$\left\{X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),\ X81,\ \text{CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},\ -\frac{r^2\,R\,\left(4\,l^4\,r+8\,l^2\,r^3+4\,r^5-6\,l^4\,R+40\,l^2\,r^2\,R+30\,r^4\,R+24\,l^2\,r\,R^2+72\,r^3\,R^2-l^2\,R^3+59\,r^2\,R^3+16\,r\,R^4\right)}{(2\,r+R)^2\,\left(-l^2+r^2+r\,R\right)^2}\right\}$$

$$\left\{X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),\ X82,\ \text{ISOGONAL CONJUGATE OF } X(38),\ \frac{1}{(2\,r+R)^2\,\left(l^4-4\,l^2\,r^2+3\,r^4-9\,l^2\,r\,R+19\,r^3\,R+28\,r^2\,R^2\right)^2}\,r^2\,R\,\left(-4\,l^8\,r-8\,l^6\,r^3+8\,l^2\,r^7+4\,r^9+6\,l^8\,R-4\,l^6\,r^2\,R+112\,l^4\,r^4\,R-60\,l^2\,r^6\,R+74\,r^8\,R-110\,l^6\,r\,R^2+422\,l^4\,r^3\,R^2-714\,l^2\,r^5\,R^2+546\,r^7\,R^2+l^6\,R^3+819\,l^4\,r^2\,R^3-2157\,l^2\,r^4\,R^3+2017\,r^6\,R^3-32\,l^4\,r\,R^4-2424\,l^2\,r^3\,R^4+3688\,r^5\,R^4+320\,l^2\,r^2\,R^5+2320\,r^4\,R^5-1024\,r^3\,R^6\right)\right\}$$

$$\left\{X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),\ X83,\ \text{CEVAPOINT OF CENTROID AND SYMMEDIAN POINT},\right.$$
$$\frac{1}{(2r+R)^2\left(5l^4-6l^2r^2+5r^4-40l^2rR+40r^3R+80r^2R^2\right)^2}$$
$$\left(-16l^{10}r^2-48l^8r^4-32l^6r^6+32l^4r^8+48l^2r^{10}+16r^{12}-6l^{10}rR+290l^8r^3R+\right.$$
$$228l^6r^5R-92l^4r^7R+322l^2r^9R+346r^{11}R+l^{10}R^2+277l^8r^2R^2-2550l^6r^4R^2+$$
$$2026l^4r^6R^2-1275l^2r^8R^2+3089r^{10}R^2-40l^8rR^3-3112l^6r^3R^3+14136l^4r^5R^3-$$
$$15416l^2r^7R^3+14480r^9R^3+592l^6r^2R^4+14208l^4r^4R^4-40304l^2r^6R^4+36960r^8R^4-$$
$$\left.\left.4096l^4r^3R^5-26112l^2r^5R^5+45824r^7R^5+13312l^2r^4R^6+12544r^6R^6-16384r^5R^7\right)\right\}$$

$$\left\{X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),\ X84,\ \text{ISOGONAL CONJUGATE OF } X(40),\right.$$
$$\left.\frac{4R\left(2l^2r^3-l^2r^2R-3l^2rR^2+3r^3R^2-l^2R^3+18r^2R^3+16rR^4+4R^5\right)}{r^2(2r+R)^2}\right\}$$

$$\left\{X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),\ X85,\ \text{ISOTOMIC CONJUGATE OF } X(9),\right.$$
$$\left(R\left(2l^6r-90l^4r^3+38l^2r^5+2r^7+l^6R-149l^4r^2R+339l^2r^4R+41r^6R-56l^4rR^2+888l^2r^3R^2+\right.\right.$$
$$\left.\left.\left.336r^5R^2+560l^2r^2R^3+1376r^4R^3+2816r^3R^4+2304r^2R^5\right)\right)\Big/\left((2r+R)^2\left(l^2+r^2+8rR+16R^2\right)^2\right)\right\}$$

$$\left\{X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),\ X86,\ \text{CEVAPOINT OF INCENTER AND CENTROID},\right.$$
$$\left(-16l^6r^2-32l^4r^4-16l^2r^6-6l^6rR-10l^4r^3R-2l^2r^5R+2r^7R+l^6R^2+171l^4r^2R^2+195l^2r^4R^2+\right.$$
$$\left.\left.25r^6R^2-16l^4rR^3+376l^2r^3R^3+104r^5R^3+144r^4R^4\right)\Big/\left((2r+R)^2\left(5l^2+r^2+4rR\right)^2\right)\right\}$$

$$\left\{X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),\ X87,\right.$$
$$X(2)\text{-CROSS CONJUGATE OF } X(1),\ \frac{1}{(2r+R)^2\left(l^4+2l^2r^2+r^4-20l^2rR+12r^3R+32r^2R^2\right)^2}$$
$$4r^2R\left(2l^8r+8l^6r^3+12l^4r^5+8l^2r^7+2r^9+3l^8R-44l^6r^2R-86l^4r^4R-28l^2r^6R+11r^8R-\right.$$
$$\left.\left.100l^6rR^2+244l^4r^3R^2+276l^2r^5R^2-68r^7R^2+4l^6R^3+940l^4r^2R^3-692l^2r^4R^3-\right.\right.$$
$$\left.\left.604r^6R^3-96l^4rR^4-1472l^2r^3R^4-1376r^5R^4+576l^2r^2R^5-1216r^4R^5-1024r^3R^6\right)\right\}$$

$$\left\{X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),\ X88,\ \text{ISOGONAL CONJUGATE OF } X(44),\right.$$
$$-\left(\left(r^2R\left(-4l^4r-24l^2r^3+108r^5-10l^4R+96l^2r^2R+378r^4R+300l^2rR^2-\right.\right.\right.$$
$$\left.\left.\left.612r^3R^2-9l^2R^3-2277r^2R^3+144rR^4\right)\right)\Big/\left((2r+R)^2\left(l^2+3r^2-15rR\right)^2\right)\right)\right\}$$

$$\left\{X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),\ X89,\ \text{ISOGONAL CONJUGATE OF } X(45),\right.$$
$$-\left(\left(r^2R\left(8l^4r+96l^2r^3+216r^5-28l^4R+336l^2r^2R+1404r^4R-66l^2rR^2+\right.\right.\right.$$
$$\left.\left.\left.2574r^3R^2-9l^2R^3+963r^2R^3+144rR^4\right)\right)\Big/\left((2r+R)^2\left(-2l^2+6r^2-3rR\right)^2\right)\right)\right\}$$

$$\left\{X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),\ X90,\ X(3)\text{-CROSS CONJUGATE OF } X(1),\right.$$
$$\left.-\frac{4r^2R\left(-2l^2r^3+l^2r^2R-l^2rR^2+r^3R^2-l^2R^3+8r^2R^3+16rR^4\right)}{(2r+R)^2\left(r^2+2rR-R^2\right)^2}\right\}$$

$$\left\{X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),\ X91,\ \text{ISOGONAL CONJUGATE OF } X(47),\right.$$
$$-\left(\left(r^2R\left(-6l^6r+30l^4r^3-82l^2r^5+10r^7-3l^6R+103l^4r^2R-361l^2r^4R+109r^6R+96l^4rR^2-\right.\right.\right.$$
$$632l^2r^3R^2+456r^5R^2+8l^4R^3-576l^2r^2R^3+936r^4R^3-240l^2rR^4+1024r^3R^4+4l^2R^5+$$
$$\left.\left.\left.596r^2R^5+144rR^6-16R^7\right)\right)\Big/\left((2r+R)^2\left(l^2r+r^3-l^2R+3r^2R+2rR^2+2R^3\right)^2\right)\right)\right\}$$

$$\left\{X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),\ X92,\right.$$
$$\text{CEVAPOINT OF INCENTER AND CLAWSON POINT},\ -\frac{1}{(2r+R)^2\left(l^2+r^2-4R^2\right)^2}$$
$$R\left(-2l^6r+42l^4r^3-70l^2r^5+14r^7-l^6R+61l^4r^2R-355l^2r^4R+159r^6R+40l^4rR^2-632l^2r^3R^2+\right.$$
$$\left.\left.704r^5R^2+8l^4R^3-496l^2r^2R^3+1528r^4R^3-192l^2rR^4+1696r^3R^4-16l^2R^5+944r^2R^5+256rR^6\right)\right\}$$

$$\{X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),\ X93,\ \text{ISOGONAL CONJUGATE OF } X(49),$$
$$\Big(R\big(2l^{10}r+10l^8r^3+20l^6r^5+20l^4r^7+10l^2r^9+2r^{11}+l^{10}R-19l^8r^2R-326l^6r^4R+490l^4r^6R-171l^2r^8R+57r^{10}R-36l^8rR^2-400l^6r^3R^2+2760l^4r^5R^2-2384l^2r^7R^2+636r^9R^2-10l^8R^3+100l^6r^2R^3+5800l^4r^4R^3-10756l^2r^6R^3+3778r^8R^3+200l^6rR^4+4096l^4r^3R^4-23704l^2r^5R^4+13360r^7R^4+32l^6R^5+300l^4r^2R^5-26872l^2r^4R^5+29308r^6R^5-440l^4rR^6-13936l^2r^3R^6+39784r^5R^6-34l^4R^7-1976l^2r^2R^7+31834r^4R^7+390l^2rR^8+13198r^3R^8+7l^2R^9+1931r^2R^9-116rR^{10}+4R^{11}\big)\Big)\Big/\Big((2r+R)^2\big(l^4+2l^2r^2+r^4-8l^2rR+8r^3R-8l^2R^2+24r^2R^2+32rR^3+13R^4\big)^2\Big)\}$$

$$\{X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),\ X94,\ \text{ISOGONAL CONJUGATE OF } X(50),$$
$$\Big(R\big(2l^{10}r+10l^8r^3+20l^6r^5+20l^4r^7+10l^2r^9+2r^{11}+l^{10}R-11l^8r^2R-294l^6r^4R+538l^4r^6R-139l^2r^8R+65r^{10}R-36l^8rR^2-512l^6r^3R^2+2680l^4r^5R^2-2208l^2r^7R^2+780r^9R^2-12l^8R^3+12l^6r^2R^3+5836l^4r^4R^3-10556l^2r^6R^3+4880r^8R^3+264l^6rR^4+4928l^4r^3R^4-24664l^2r^5R^4+18032r^7R^4+54l^6R^5+390l^4r^2R^5-30534l^2r^4R^5+41322r^6R^5-972l^4rR^6-17544l^2r^3R^6+58980r^5R^6-108l^4R^7-1476l^2r^2R^7+50040r^4R^7+1782l^2rR^8+21294r^3R^8+81l^2R^9+1485r^2R^9-1296rR^{10}\big)\Big)\Big/\Big((2r+R)^2\big(l^4+2l^2r^2+r^4-8l^2rR+8r^3R-12l^2R^2+28r^2R^2+48rR^3+27R^4\big)^2\Big)\}$$

$$\{X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),\ X95,\ \text{CEVAPOINT OF CENTROID AND CIRCUMCENTER},$$
$$\Big(R\big(2l^{10}r+42l^8r^3+116l^6r^5+116l^4r^7+42l^2r^9+2r^{11}+l^{10}R-19l^8r^2R-726l^6r^4R+442l^4r^6R+165l^2r^8R+41r^{10}R-40l^8rR^2-600l^6r^3R^2+2216l^4r^5R^2-968l^2r^7R^2+352r^9R^2-8l^8R^3+288l^6r^2R^3+6720l^4r^4R^3-7040l^2r^6R^3+1640r^8R^3+192l^6rR^4+2112l^4r^3R^4-15360l^2r^5R^4+4480r^7R^4+16l^6R^5-784l^4r^2R^5-13072l^2r^4R^5+7184r^6R^5-256l^4rR^6-2944l^2r^3R^6+6272r^5R^6+2304r^4R^7\big)\Big)\Big/\Big((2r+R)^2\big(l^4+18l^2r^2+r^4-8l^2rR+8r^3R-4l^2R^2+20r^2R^2+16rR^3\big)^2\Big)\}$$

$$\Big\{X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),\ X96,$$
$$\text{ISOGONAL CONJUGATE OF } X(52),\ -\frac{1}{(2r+R)^2\big(l^4-14l^2r^2+r^4-8l^2rR+8r^3R+16r^2R^2-4R^4\big)^2}$$
$$R\big(2l^{10}r-22l^8r^3-76l^6r^5-76l^4r^7-22l^2r^9+2r^{11}+l^{10}R-75l^8r^2R+490l^6r^4R-566l^4r^6R-91l^2r^8R+17r^{10}R-52l^8rR^2+1064l^6r^3R^2-2256l^4r^5R^2+664l^2r^7R^2-60r^9R^2-12l^8R^3+936l^6r^2R^3-6320l^4r^4R^3+5496l^2r^6R^3-1316r^8R^3+384l^6rR^4-7568l^4r^3R^4+16224l^2r^5R^4-7056r^7R^4+56l^6R^5-4360l^4r^2R^5+25224l^2r^4R^5-19640r^6R^5-1216l^4rR^6+20512l^2r^3R^6-32288r^5R^6-128l^4R^7+8608l^2r^2R^7-32288r^4R^7+1760l^2rR^8-18912r^3R^8+144l^2R^9-6064r^2R^9-960rR^{10}-64R^{11}\big)\Big\}$$

$$\{X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),\ X97,\ \text{ISOGONAL CONJUGATE OF } X(53),$$
$$\Big(R^2\big(12l^8r^2-88l^6r^4+112l^4r^6-40l^2r^8+4r^{10}+2l^8rR-168l^6r^3R+620l^4r^5R-424l^2r^7R+66r^9R-166l^6r^2R^2+1470l^4r^4R^2-1874l^2r^6R^2+458r^8R^2-14l^6rR^3+1514l^4r^3R^3-4354l^2r^5R^3+1734r^7R^3+l^6R^4+683l^4r^2R^4-5513l^2r^4R^4+3869r^6R^4-8l^4rR^5-3488l^2r^3R^5+5064r^5R^5-8l^4R^6-688l^2r^2R^6+3480r^4R^6+192l^2rR^7+640r^3R^7+16l^2R^8-560r^2R^8-256rR^9\big)\Big)\Big/\Big((2r+R)^2\big(l^4-6l^2r^2+r^4-8l^2rR+8r^3R-7l^2R^2+23r^2R^2+28rR^3+12R^4\big)^2\Big)\}$$

$$\{X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),\ X98,\ \text{TarryPoint},$$
$$-\Big(\Big(R\big(2l^6r+6l^4r^3+6l^2r^5+2r^7+l^6R-29l^4r^2R+51l^2r^4R+17r^6R-20l^4rR^2+80l^2r^3R^2+36r^5R^2-4l^4R^3+88l^2r^2R^3-20r^4R^3+32l^2rR^4-96r^3R^4-64r^2R^5\big)\Big)\Big/\Big((2r+R)^2\big(l^4-14l^2r^2+r^4-8l^2rR+8r^3R+16r^2R^2\big)\Big)\Big)\}$$

$$\{X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),\ X99,\ \text{STEINER POINT},$$
$$\Big(R\big(2l^6r+6l^4r^3+6l^2r^5+2r^7+l^6R-21l^4r^2R-61l^2r^4R+25r^6R-16l^4rR^2-40l^2r^3R^2+104r^5R^2+144r^4R^3\big)\Big)\Big/\Big((2r+R)^2\big(l^4-14l^2r^2+r^4-8l^2rR+8r^3R+16r^2R^2\big)\Big)\}$$

$$\Big\{X35,\ \{X(1),X(3)\}\text{-HARMONIC CONJUGATE OF } X(36),\ X100,$$
$$\text{ANTICOMPLEMENT OF FEUERBACH POINT},\ \frac{R^2\big(-2l^2r+6r^3-l^2R+19r^2R+16rR^2\big)}{(2r-R)\,(2r+R)^2}\Big\}$$

$$\left\{\text{X36, INVERSE-IN-CIRCUMCIRCLE OF INCENTER, X37, CrosspointOfIncenterAndCentroid, } \frac{4 r^2 R \left(-2 l^4+2 l^2 r^2+l^2 r R+r^3 R-l^2 R^2+8 r^2 R^2+16 r R^3\right)}{(2 r-R) \left(l^2+r^2+4 r R\right)^2}\right\}$$

$$\left\{\text{X36, INVERSE-IN-CIRCUMCIRCLE OF INCENTER, X38, CROSSPOINT OF X(1) AND X(75), } -\frac{4 r^2 R \left(2 l^4-8 l^2 r^2+6 r^4-16 l^2 r R+32 r^3 R+l^2 R^2+37 r^2 R^2-16 r R^3\right)}{(2 r-R) \left(l^2+r^2-2 r R\right)^2}\right\}$$

$$\left\{\text{X36, INVERSE-IN-CIRCUMCIRCLE OF INCENTER, X39, BrocardMidpoint, } \left(4 r^2 R^2 \left(-9 l^6 r+15 l^4 r^3-7 l^2 r^5+r^7-l^6 R+62 l^4 r^2 R-65 l^2 r^4 R+16 r^6 R+24 l^4 r R^2-184 l^2 r^3 R^2+96 r^5 R^2-144 l^2 r^2 R^3+256 r^4 R^3+256 r^3 R^4\right)\right) / \left((2 r-R) \left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)^2\right)\right\}$$

$$\left\{\text{X36, INVERSE-IN-CIRCUMCIRCLE OF INCENTER, X40, BEVAN POINT, } -\frac{4 (r-R)^2 R}{2 r-R}\right\}$$

$$\left\{\text{X36, INVERSE-IN-CIRCUMCIRCLE OF INCENTER, X41, X(6)-CEVA CONJUGATE OF X(31), } \frac{4 r^2 R^2 \left(l^4 r-6 l^2 r^3+r^5+3 l^4 R-49 l^2 r^2 R+16 r^4 R-104 l^2 r R^2+96 r^3 R^2-16 l^2 R^3+256 r^2 R^3+256 r R^4\right)}{(2 r-R) \left(-3 l^2 r+r^3-2 l^2 R+8 r^2 R+16 r R^2\right)^2}\right\}$$

$$\left\{\text{X36, INVERSE-IN-CIRCUMCIRCLE OF INCENTER, X42, CROSSPOINT OF INCENTER AND SYMMEDIAN POINT, } -\frac{4 r^2 R^2 \left(10 l^2 r+2 r^3+l^2 R+13 r^2 R-16 r R^2\right)}{(2 r-R) \left(l^2+r^2-2 r R\right)^2}\right\}$$

$$\left\{\text{X36, INVERSE-IN-CIRCUMCIRCLE OF INCENTER, X43, X(6)-CEVA CONJUGATE OF X(1), } \frac{4 r^2 R \left(l^4+2 l^2 r^2+r^4-20 l^2 r R+12 r^3 R-4 l^2 R^2+12 r^2 R^2+64 r R^3\right)}{(2 r-R) \left(l^2+r^2-8 r R\right)^2}\right\}$$

$$\left\{\text{X36, INVERSE-IN-CIRCUMCIRCLE OF INCENTER, X44, X(6)-LINE CONJUGATE OF X(1), } \frac{4 r^2 R \left(2 l^4+6 l^2 r^2-39 l^2 r R+9 r^3 R-9 l^2 R^2+72 r^2 R^2+144 r R^3\right)}{(2 r-R) \left(-l^2+3 r^2+12 r R\right)^2}\right\}$$

$$\left\{\text{X36, INVERSE-IN-CIRCUMCIRCLE OF INCENTER, X45, X(9)-BETH CONJUGATE OF X(1), } \frac{4 r^2 R \left(-4 l^4+12 l^2 r^2-15 l^2 r R+9 r^3 R-9 l^2 R^2+72 r^2 R^2+144 r R^3\right)}{(2 r-R) \left(l^2+3 r^2+12 r R\right)^2}\right\}$$

$$\left\{\text{X36, INVERSE-IN-CIRCUMCIRCLE OF INCENTER, X46, X(4)-CEVA CONJUGATE OF X(1), } -\frac{4 r^4 R}{(r-R)^2 (2 r-R)}\right\}$$

$$\left\{\text{X36, INVERSE-IN-CIRCUMCIRCLE OF INCENTER, X47, X(110)-BETH CONJUGATE OF X(34), } \frac{4 r^2 R^2 \left(-4 l^2 r+4 r^3+l^2 R+13 r^2 R+12 r R^2-4 R^3\right)}{(2 r-R) \left(-l^2+3 r^2+6 r R+2 R^2\right)^2}\right\}$$

$$\left\{\text{X36, INVERSE-IN-CIRCUMCIRCLE OF INCENTER, X48, CROSSPOINT OF X(1) AND X(63), } \frac{4 R^2 \left(l^4 r-6 l^2 r^3+r^5+l^4 R-23 l^2 r^2 R+12 r^4 R-24 l^2 r R^2+52 r^3 R^2-4 l^2 R^3+96 r^2 R^3+64 r R^4\right)}{(2 r-R) \left(-3 l^2+r^2+6 r R+8 R^2\right)^2}\right\}$$

$$\left\{\text{X36, INVERSE-IN-CIRCUMCIRCLE OF INCENTER, X49, CENTER OF SINE-TRIPLE-ANGLE CIRCLE, } \left(R^2 \left(2 l^4 r-20 l^2 r^3+10 r^5+l^4 R-38 l^2 r^2 R+73 r^4 R-26 l^2 r R^2+182 r^3 R^2-4 l^2 R^3+176 r^2 R^3+60 r R^4-R^5\right)\right) / \left((2 r-R) \left(-2 l^2+2 r^2+8 r R+7 R^2\right)^2\right)\right\}$$

$$\{X36,\ \text{INVERSE-IN-CIRCUMCIRCLE OF INCENTER},\ X50,\ X(74)\text{-CEVA CONJUGATE OF } X(184),\ \left(4 r^2 R^2 \left(-5 l^6 r+15 l^4 r^3-11 l^2 r^5+r^7-l^6 R+62 l^4 r^2 R-97 l^2 r^4 R+16 r^6 R+60 l^4 r R^2-302 l^2 r^3 R^2+102 r^5 R^2+6 l^4 R^3-390 l^2 r^2 R^3+328 r^4 R^3-183 l^2 r R^4+553 r^3 R^4-9 l^2 R^5+456 r^2 R^5+144 r R^6\right)\right)\Big/\left((2 r-R)\left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-3 l^2 R^2+19 r^2 R^2+12 r R^3\right)^2\right)\}$$

$$\{X36,\ \text{INVERSE-IN-CIRCUMCIRCLE OF INCENTER},\ X51,\ \text{CENTROID OF ORTHIC TRIANGLE},\ -\frac{2 l^4 r+36 l^2 r^3+2 r^5-l^4 R-34 l^2 r^2 R+15 r^4 R+12 l^2 r R^2+44 r^3 R^2+4 l^2 R^3+84 r^2 R^3-64 r R^4}{36 (2 r-R) R^2}\}$$

$$\{X36,\ \text{INVERSE-IN-CIRCUMCIRCLE OF INCENTER},\ X52,\ \text{ORTHOCENTER OF ORTHIC TRIANGLE},\ \frac{2 l^4 r-28 l^2 r^3+2 r^5-l^4 R-2 l^2 r^2 R+15 r^4 R+4 l^2 r R^2+20 r^3 R^2+4 l^2 R^3-36 r^2 R^3-16 r R^4-4 R^5}{4 (2 r-R) R^2}\}$$

$$\{X36,\ \text{INVERSE-IN-CIRCUMCIRCLE OF INCENTER},\ X53,\ \text{SYMMEDIAN POINT OF ORTHIC TRIANGLE},\ \left(4 r^2 \left(2 l^8 r-14 l^6 r^3+14 l^4 r^5-2 l^2 r^7-22 l^6 r^2 R+68 l^4 r^4 R-22 l^2 r^6 R-23 l^6 r R^2+163 l^4 r^3 R^2-109 l^2 r^5 R^2+r^7 R^2-l^6 R^3+202 l^4 r^2 R^3-329 l^2 r^4 R^3+16 r^6 R^3+112 l^4 r R^4-616 l^2 r^3 R^4+104 r^5 R^4+8 l^4 R^5-632 l^2 r^2 R^5+352 r^4 R^5-272 l^2 r R^6+656 r^3 R^6-16 l^2 R^7+640 r^2 R^7+256 r R^8\right)\right)\Big/\left((2 r-R)\left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-4 l^2 R^2+20 r^2 R^2+16 r R^3\right)^2\right)\}$$

$$\{X36,\ \text{INVERSE-IN-CIRCUMCIRCLE OF INCENTER},\ X54,\ \text{KosnitaPoint},\ \frac{R^2 (2 r+R)^2 \left(-6 l^2 r+2 r^3+l^2 R+13 r^2 R+20 r R^2-4 R^3\right)}{(2 r-R)\left(-2 l^2+2 r^2+8 r R+5 R^2\right)^2}\}$$

$$\{X36,\ \text{INVERSE-IN-CIRCUMCIRCLE OF INCENTER},\ X55,\ \text{INSIMILICENTER(CIRCUMCIRCLE, INCIRCLE)},\ -\frac{9 r^2 R^3}{(2 r-R)(r+R)^2}\}$$

$$\{X36,\ \text{INVERSE-IN-CIRCUMCIRCLE OF INCENTER},\ X56,\ \text{EXSIMILICENTER(CIRCUMCIRCLE, INCIRCLE)},\ -\frac{r^2 R^3}{(r-R)^2 (2 r-R)}\}$$

$$\{X36,\ \text{INVERSE-IN-CIRCUMCIRCLE OF INCENTER},\ X57,\ \text{ISOGONAL CONJUGATE OF } X(9),\ -\frac{4 r^2 R (r+R)^2}{(r-2 R)^2 (2 r-R)}\}$$

$$\{X36,\ \text{INVERSE-IN-CIRCUMCIRCLE OF INCENTER},\ X58,\ \text{ISOGONAL CONJUGATE OF } X(10),\ \frac{4 r^2 R^2 \left(-6 l^2 r+2 r^3-l^2 R+11 r^2 R+16 r R^2\right)}{(2 r-R)\left(-l^2+3 r^2+4 r R\right)^2}\}$$

$$\{X36,\ \text{INVERSE-IN-CIRCUMCIRCLE OF INCENTER},\ X59,\ \text{ISOGONAL CONJUGATE OF } X(11),\ -\frac{r^2 R^2 \left(3 l^2-r^2-8 r R-16 R^2\right)}{\left(l^2-r^2-5 r R-4 R^2\right)^2}\}$$

$$\{X36,\ \text{INVERSE-IN-CIRCUMCIRCLE OF INCENTER},\ X60,\ \text{ISOGONAL CONJUGATE OF } X(12),\ \frac{r^2 R^2 (2 r+3 R)^2 \left(-6 l^2 r+2 r^3-l^2 R+11 r^2 R+16 r R^2\right)}{(2 r-R)\left(-2 l^2 r+2 r^3-l^2 R+7 r^2 R+7 r R^2\right)^2}\}$$

$$\{X36,\ \text{INVERSE-IN-CIRCUMCIRCLE OF INCENTER},\ X61,\ \text{ISOGONAL CONJUGATE OF } X(17),\ \frac{12 r^2 R^2 \left(-\sqrt{3}\, l^3-21 l^2 r-\sqrt{3}\, l r^2+3 r^3-4 l^2 R-4 \sqrt{3}\, l r R+24 r^2 R+48 r R^2\right)}{(2 r-R)\left(3 l^2+2 \sqrt{3}\, l r-3 r^2-12 r R\right)^2}\}$$

$$\left\{X36,\ \text{INVERSE-IN-CIRCUMCIRCLE OF INCENTER},\ X62,\ \text{ISOGONAL CONJUGATE OF } X(18),\ \frac{12 r^2 R^2 \left(\sqrt{3}\, l^3 - 21 l^2 r + \sqrt{3}\, l r^2 + 3 r^3 - 4 l^2 R + 4 \sqrt{3}\, l r R + 24 r^2 R + 48 r R^2\right)}{(2 r - R) \left(3 l^2 - 2 \sqrt{3}\, l r - 3 r^2 - 12 r R\right)^2}\right\}$$

$$\left\{X36,\ \text{INVERSE-IN-CIRCUMCIRCLE OF INCENTER},\ X63,\ \text{ISOGONAL CONJUGATE OF } X(19),\ -\frac{R \left(-2 l^2 r^2 + 2 r^4 + 2 l^2 r R + 6 r^3 R + l^2 R^2 - 3 r^2 R^2 - 16 r R^3\right)}{(2 r - R)\ (r + R)^2}\right\}$$

$$\left\{X36,\ \text{INVERSE-IN-CIRCUMCIRCLE OF INCENTER},\ X64,\ \text{ISOGONAL CONJUGATE OF } X(20),\ \left(4 R^2 \left(3 l^4 r - 3 l^2 r^3 + 2 r^5 - 3 l^4 R - 17 l^2 r^2 R + 15 r^4 R - 8 l^2 r R^2 + 44 r^3 R^2 + 28 l^2 R^3 + 44 r^2 R^3 - 32 r R^4 - 64 R^5\right)\right) \Big/ \left((2 r - R)\ (-l + r + 2 R)^2\ (l + r + 2 R)^2\right)\right\}$$

$$\left\{X36,\ \text{INVERSE-IN-CIRCUMCIRCLE OF INCENTER},\ X65,\ \text{ORTHOCENTER OF THE INTOUCH TRIANGLE},\ -\frac{r^2\ (2 r + R)^2}{(2 r - R)\ R}\right\}$$

$$\left\{X36,\ \text{INVERSE-IN-CIRCUMCIRCLE OF INCENTER},\ X66,\ \text{ISOGONAL CONJUGATE OF } X(22),\ \frac{1}{(2 r - R)\ (-l + r + 2 R)^2\ (l + r + 2 R)^2\ \left(-l^2 + r^2 + 4 r R\right)^2} \left(-2 l^{10} r + 18 l^8 r^3 - 44 l^6 r^5 + 44 l^4 r^7 - 18 l^2 r^9 + 2 r^{11} + 34 l^8 r^2 R - 236 l^6 r^4 R + 408 l^4 r^6 R - 244 l^2 r^8 R + 38 r^{10} R + 16 l^8 r R^2 - 356 l^6 r^3 R^2 + 1348 l^4 r^5 R^2 - 1308 l^2 r^7 R^2 + 300 r^9 R^2 + l^8 R^3 - 204 l^6 r^2 R^3 + 1930 l^4 r^4 R^3 - 3508 l^2 r^6 R^3 + 1269 r^8 R^3 - 56 l^6 r R^4 + 1248 l^4 r^3 R^4 - 4920 l^2 r^5 R^4 + 3088 r^7 R^4 - 4 l^6 R^5 + 412 l^4 r^2 R^5 - 3500 l^2 r^4 R^5 + 4308 r^6 R^5 + 80 l^4 r R^6 - 1248 l^2 r^3 R^6 + 3248 r^5 R^6 - 272 l^2 r^2 R^7 + 1216 r^4 R^7 + 256 r^3 R^8\right)\right\}$$

$$\left\{X36,\ \text{INVERSE-IN-CIRCUMCIRCLE OF INCENTER},\ X67,\ \text{ISOGONAL CONJUGATE OF } X(23),\ \frac{1}{(2 r - R)\ \left(-l^2 + r^2 + 4 r R\right)^2\ \left(-2 l^2 + 2 r^2 + 8 r R + 9 R^2\right)} \left(2 l^8 r - 32 l^6 r^3 + 60 l^4 r^5 - 32 l^2 r^7 + 2 r^9 + l^8 R - 20 l^6 r^2 R + 258 l^4 r^4 R - 268 l^2 r^6 R + 29 r^8 R - 30 l^6 r R^2 + 270 l^4 r^3 R^2 - 786 l^2 r^5 R^2 + 162 r^7 R^2 - 4 l^6 R^3 + 144 l^4 r^2 R^3 - 956 l^2 r^4 R^3 + 432 r^6 R^3 + 72 l^4 r R^4 - 484 l^2 r^3 R^4 + 548 r^5 R^4 - 132 l^2 r^2 R^5 + 288 r^4 R^5 + 64 r^3 R^6\right)\right\}$$

$$\left\{X36,\ \text{INVERSE-IN-CIRCUMCIRCLE OF INCENTER},\ X68,\ \text{PRASOLOV POINT},\ \left(-2 l^6 r + 14 l^4 r^3 - 14 l^2 r^5 + 2 r^7 + 18 l^4 r^2 R - 72 l^2 r^4 R + 22 r^6 R + 20 l^4 r R^2 - 140 l^2 r^3 R^2 + 96 r^5 R^2 - l^4 R^3 - 110 l^2 r^2 R^3 + 211 r^4 R^3 - 52 l^2 r R^4 + 244 r^3 R^4 + 4 l^2 R^5 + 140 r^2 R^5 + 40 r R^6 - 4 R^7\right) \Big/ \left((2 r - R)\ (-l + r + 2 R)^2\ (l + r + 2 R)^2\right)\right\}$$

$$\left\{X36,\ \text{INVERSE-IN-CIRCUMCIRCLE OF INCENTER},\ X69,\ \text{SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},\ -\frac{-16 l^4 r^3 + 16 l^2 r^5 + l^6 R + 7 l^4 r^2 R + 55 l^2 r^4 R + r^6 R - 16 l^4 r R^2 + 72 l^2 r^3 R^2 + 8 r^5 R^2 + 16 r^4 R^3}{(2 r - R)\ \left(-l^2 + r^2 + 4 r R\right)^2}\right\}$$

$$\left\{X36,\ \text{INVERSE-IN-CIRCUMCIRCLE OF INCENTER},\ X70,\ \text{ISOGONAL CONJUGATE OF } X(26),\ \left(-2 l^{10} r + 18 l^8 r^3 - 44 l^6 r^5 + 44 l^4 r^7 - 18 l^2 r^9 + 2 r^{11} + 34 l^8 r^2 R - 236 l^6 r^4 R + 408 l^4 r^6 R - 244 l^2 r^8 R + 38 r^{10} R + 26 l^8 r R^2 - 420 l^6 r^3 R^2 + 1456 l^4 r^5 R^2 - 1372 l^2 r^7 R^2 + 310 r^9 R^2 - 340 l^6 r^2 R^3 + 2548 l^4 r^4 R^3 - 4140 l^2 r^6 R^3 + 1420 r^8 R^3 - 128 l^6 r R^4 + 2356 l^4 r^3 R^4 - 7264 l^2 r^5 R^4 + 4012 r^7 R^4 + l^6 R^5 + 1189 l^4 r^2 R^5 - 7569 l^2 r^4 R^5 + 7243 r^6 R^5 + 282 l^4 r R^6 - 4672 l^2 r^3 R^6 + 8406 r^5 R^6 - 6 l^4 R^7 - 1656 l^2 r^2 R^7 + 6206 r^4 R^7 - 262 l^2 r R^8 + 2850 r^3 R^8 + 9 l^2 R^9 + 757 r^2 R^9 + 84 r R^{10} - 4 R^{11}\right) \Big/ \left((2 r - R)\ \left(l^4 - 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 6 l^2 R^2 + 22 r^2 R^2 + 24 r R^3 + 7 R^4\right)^2\right)\right\}$$

$$\left\{\text{X36, INVERSE-IN-CIRCUMCIRCLE OF INCENTER, X71, ISOGONAL CONJUGATE OF X(27)}, \frac{4 R^2 \left(3 l^4 r-4 l^2 r^3+r^5-3 l^4 R-11 l^2 r^2 R+12 r^4 R-8 l^2 r R^2+52 r^3 R^2-4 l^2 R^3+96 r^2 R^3+64 r R^4\right)}{(2 r-R) \left(l^2+r^2+6 r R+8 R^2\right)^2}\right\}$$

$$\left\{\text{X36, INVERSE-IN-CIRCUMCIRCLE OF INCENTER, X72, ISOGONAL CONJUGATE OF X(28)}, -\frac{-2 l^2 r^2+2 r^4+l^2 r R+9 r^3 R+l^2 R^2+4 r^2 R^2-16 r R^3}{(2 r-R) R}\right\}$$

$$\left\{\text{X36, INVERSE-IN-CIRCUMCIRCLE OF INCENTER, X73, CROSSPOINT OF INCENTER AND CIRCUMCENTER}, \frac{4 r^2 R^2 \left(-6 l^2 r+2 r^3+l^2 R+13 r^2 R+20 r R^2-4 R^3\right)}{(2 r-R) \left(l^2+r^2-2 r R-4 R^2\right)^2}\right\}$$

$$\left\{\text{X36, INVERSE-IN-CIRCUMCIRCLE OF INCENTER, X74, ISOGONAL CONJUGATE OF EULER INFINITY POINT}, \frac{R^2 \left(-6 l^2 r+2 r^3+9 l^2 R+5 r^2 R-12 r R^2-36 R^3\right)}{(2 r-R) \left(-2 l^2+2 r^2+8 r R+9 R^2\right)}\right\}$$

$$\left\{\text{X36, INVERSE-IN-CIRCUMCIRCLE OF INCENTER, X75, ISOTOMIC CONJUGATE OF INCENTER}, -\frac{R \left(l^6+19 l^4 r^2-45 l^2 r^4+r^6-16 l^4 r R-72 l^2 r^3 R+8 r^5 R+16 r^4 R^2\right)}{(2 r-R) \left(l^2+r^2+4 r R\right)^2}\right\}$$

$$\left\{\text{X36, INVERSE-IN-CIRCUMCIRCLE OF INCENTER, X76, 3rd BROCARD POINT}, -\left(\left(R \left(l^{10}+5 l^8 r^2+10 l^6 r^4+10 l^4 r^6+5 l^2 r^8+r^{10}-24 l^8 r R+8 l^6 r^3 R-408 l^4 r^5 R+88 l^2 r^7 R+16 r^9 R+144 l^6 r^2 R^2-256 l^4 r^4 R^2+464 l^2 r^6 R^2+96 r^8 R^2-256 l^4 r^3 R^3+768 l^2 r^5 R^3+256 r^7 R^3+256 r^6 R^4\right)\right) \Big/ \left((2 r-R) \left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)^2\right)\right)\right\}$$

$$\left\{\text{X36, INVERSE-IN-CIRCUMCIRCLE OF INCENTER, X77, ISOGONAL CONJUGATE OF X(33)}, -\frac{r^2 R \left(2 l^4-2 l^2 r^2-4 l^2 r R-11 l^2 R^2+r^2 R^2+8 r R^3+16 R^4\right)}{(2 r-R) \left(-l^2+r R+4 R^2\right)^2}\right\}$$

$$\left\{\text{X36, INVERSE-IN-CIRCUMCIRCLE OF INCENTER, X78, ISOGONAL CONJUGATE OF X(34)}, -\frac{R \left(-2 l^2 r^2+2 r^4+12 r^3 R+l^2 R^2+13 r^2 R^2-16 r R^3\right)}{(r-R)^2 (2 r-R)}\right\}$$

$$\left\{\text{X36, INVERSE-IN-CIRCUMCIRCLE OF INCENTER, X79, ISOGONAL CONJUGATE OF X(35)}, \frac{4 r^2 \left(-6 l^2 r+2 r^3-l^2 R+11 r^2 R+16 r R^2\right)}{(2 r-R) (2 r+3 R)^2}\right\}$$

$$\left\{\text{X36, INVERSE-IN-CIRCUMCIRCLE OF INCENTER, X80, REFLECTION OF INCENTER IN FEUERBACH POINT}, \frac{4 r^2 \left(-l^2+3 r^2+4 r R+4 R^2\right)}{(2 r-R)^2}\right\}$$

$$\left\{\text{X36, INVERSE-IN-CIRCUMCIRCLE OF INCENTER, X81, CEVAPOINT OF INCENTER AND SYMMEDIAN POINT}, -\frac{r^2 R \left(2 l^4+4 l^2 r^2+2 r^4+14 l^2 r R+6 r^3 R+l^2 R^2-3 r^2 R^2-16 r R^3\right)}{(2 r-R) \left(-l^2+r^2+r R\right)^2}\right\}$$

$$\left\{\text{X36, INVERSE-IN-CIRCUMCIRCLE OF INCENTER, X82, ISOGONAL CONJUGATE OF X(38)}, \left(r^2 R \left(-2 l^8-4 l^6 r^2+4 l^2 r^6+2 r^8+24 l^6 r R+56 l^4 r^3 R-56 l^2 r^5 R+40 r^7 R-l^6 R^2-43 l^4 r^2 R^2-339 l^2 r^4 R^2+279 r^6 R^2+32 l^4 r R^3-392 l^2 r^3 R^3+888 r^5 R^3-320 l^2 r^2 R^4+1392 r^4 R^4+1024 r^3 R^5\right)\right) \Big/ \left((2 r-R) \left(l^4-4 l^2 r^2+3 r^4-9 l^2 r R+19 r^3 R+28 r^2 R^2\right)^2\right)\right\}$$

$$\left\{\text{X36, INVERSE-IN-CIRCUMCIRCLE OF INCENTER, X83, CEVAPOINT OF CENTROID AND SYMMEDIAN POINT,}\right.$$
$$\frac{1}{(2r-R)\left(5l^4-6l^2r^2+5r^4-40l^2rR+40r^3R+80r^2R^2\right)^2}$$
$$\left(-8l^{10}r-24l^8r^3-16l^6r^5+16l^4r^7+24l^2r^9+8r^{11}-l^{10}R+163l^8r^2R+\right.$$
$$134l^6r^4R-74l^4r^6R+107l^2r^8R+151r^{10}R+40l^8rR^2-1336l^6r^3R^2+1096l^4r^5R^2-$$
$$936l^2r^7R^2+1200r^9R^2-592l^6r^2R^3+6016l^4r^4R^3-7312l^2r^6R^3+5280r^8R^3+$$
$$\left.\left.4096l^4r^3R^4-16896l^2r^5R^4+14080r^7R^4-13312l^2r^4R^5+22272r^6R^5+16384r^5R^6\right)\right\}$$

$$\left\{\text{X36, INVERSE-IN-CIRCUMCIRCLE OF INCENTER, X84,}\right.$$
$$\left.\text{ISOGONAL CONJUGATE OF X(40)}, \frac{4R\left(l^2r^2-3l^2rR+r^3R+l^2R^2+6r^2R^2+8rR^3-4R^4\right)}{r^2(2r-R)}\right\}$$

$$\left\{\text{X36, INVERSE-IN-CIRCUMCIRCLE OF INCENTER, X85, ISOTOMIC CONJUGATE OF X(9)},\right.$$
$$-\left(\left(R\left(l^6+51l^4r^2-13l^2r^4+r^6+8l^4rR-104l^2r^3R+16r^5R-208l^2r^2R^2+\right.\right.\right.$$
$$\left.\left.\left.96r^4R^2+256r^3R^3+256r^2R^4\right)\right)/\left((2r-R)\left(l^2+r^2+8rR+16R^2\right)^2\right)\right)\}$$

$$\left\{\text{X36, INVERSE-IN-CIRCUMCIRCLE OF INCENTER, X86, CEVAPOINT OF INCENTER AND CENTROID,}\right.$$
$$\left.-\frac{8l^6r+16l^4r^3+8l^2r^5+l^6R+3l^4r^2R+3l^2r^4R+r^6R-16l^4rR^2-8l^2r^3R^2+8r^5R^2+16r^4R^3}{(2r-R)\left(5l^2+r^2+4rR\right)^2}\right\}$$

$$\left\{\text{X36, INVERSE-IN-CIRCUMCIRCLE OF INCENTER, X87, X(2)-CROSS CONJUGATE OF X(1)},\right.$$
$$\left(4r^2R\left(l^8+4l^6r^2+6l^4r^4+4l^2r^6+r^8-28l^6rR-52l^4r^3R-20l^2r^5R+4r^7R-4l^6R^2+212l^4r^2R^2+\right.\right.$$
$$\left.\left.180l^2r^4R^2-36r^6R^2+96l^4rR^3-576l^2r^3R^3-160r^5R^3-576l^2r^2R^4+192r^4R^4+1024r^3R^5\right)\right)/$$
$$\left.\left((2r-R)\left(l^4+2l^2r^2+r^4-20l^2rR+12r^3R+32r^2R^2\right)^2\right)\right\}$$

$$\left\{\text{X36, INVERSE-IN-CIRCUMCIRCLE OF INCENTER, X88, ISOGONAL CONJUGATE OF X(44)},\right.$$
$$\left.-\frac{r^2R\left(-2l^4-12l^2r^2+54r^4+42l^2rR+18r^3R+9l^2R^2-99r^2R^2-144rR^3\right)}{(2r-R)\left(l^2+3r^2-15rR\right)^2}\right\}$$

$$\left\{\text{X36, INVERSE-IN-CIRCUMCIRCLE OF INCENTER, X89, ISOGONAL CONJUGATE OF X(45)},\right.$$
$$\left.-\frac{r^2R\left(4l^4+48l^2r^2+108r^4+120l^2rR+288r^3R+9l^2R^2+117r^2R^2-144rR^3\right)}{(2r-R)\left(-2l^2+6r^2-3rR\right)^2}\right\}$$

$$\left\{\text{X36, INVERSE-IN-CIRCUMCIRCLE OF INCENTER, X90,}\right.$$
$$\left.\text{X(3)-CROSS CONJUGATE OF X(1)}, \frac{4r^2R\left(l^2r^2-3l^2rR+r^3R+l^2R^2+6r^2R^2+8rR^3-4R^4\right)}{(2r-R)\left(r^2+2rR-R^2\right)^2}\right\}$$

$$\left\{\text{X36, INVERSE-IN-CIRCUMCIRCLE OF INCENTER, X91, ISOGONAL CONJUGATE OF X(47)},\right.$$
$$-\left(\left(r^2R\left(-l^6+21l^4r^2-35l^2r^4+7r^6+8l^4rR-120l^2r^3R+64r^5R+8l^4R^2-\right.\right.\right.$$
$$\left.\left.144l^2r^2R^2+216r^4R^2-40l^2rR^3+328r^3R^3-20l^2R^4+220r^2R^4+48rR^5+16R^6\right)\right)/$$
$$\left.\left.\left((2r-R)\left(l^2r+r^3-l^2R+3r^2R+2rR^2+2R^3\right)^2\right)\right)\right\}$$

$$\left\{\text{X36, INVERSE-IN-CIRCUMCIRCLE OF INCENTER, X92,}\right.$$
$$\text{CEVAPOINT OF INCENTER AND CLAWSON POINT}, -\frac{1}{(2r-R)\left(l^2+r^2-4R^2\right)^2}$$
$$R\left(l^6+27l^4r^2-29l^2r^4+9r^6-24l^4rR-136l^2r^3R+80r^5R-8l^4R^2-80l^2r^2R^2+\right.$$
$$\left.\left.264r^4R^2+160l^2rR^3+320r^3R^3+16l^2R^4-48r^2R^4-256rR^5\right)\right\}$$

$$\{X36,\ \text{INVERSE-IN-CIRCUMCIRCLE OF INCENTER},\ X93,\ \text{ISOGONAL CONJUGATE OF } X(49),$$
$$-\Big(\Big(R\,\big(l^{10}+5\,l^8\,r^2+10\,l^6\,r^4+10\,l^4\,r^6+5\,l^2\,r^8+r^{10}-32\,l^8\,r\,R+72\,l^6\,r^3\,R-264\,l^4\,r^5\,R+152\,l^2\,r^7\,R+8\,r^9\,R-10\,l^8\,R^2+212\,l^6\,r^2\,R^2-968\,l^4\,r^4\,R^2+1100\,l^2\,r^6\,R^2-14\,r^8\,R^2+288\,l^6\,r\,R^3-1520\,l^4\,r^3\,R^3+3456\,l^2\,r^5\,R^3-368\,r^7\,R^3+32\,l^6\,R^4-1500\,l^4\,r^2\,R^4+5480\,l^2\,r^4\,R^4-1692\,r^6\,R^4-852\,l^4\,r\,R^5+4896\,l^2\,r^3\,R^5-3788\,r^5\,R^5-34\,l^4\,R^6+2776\,l^2\,r^2\,R^6-4694\,r^4\,R^6+944\,l^2\,r\,R^7-3360\,r^3\,R^7+7\,l^2\,R^8-1445\,r^2\,R^8-348\,r\,R^9+4\,R^{10}\big)\Big)\Big/\Big((2\,r-R)\,\big(l^4+2\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-8\,l^2\,R^2+24\,r^2\,R^2+32\,r\,R^3+13\,R^4\big)^2\Big)\Big)\}$$

$$\{X36,\ \text{INVERSE-IN-CIRCUMCIRCLE OF INCENTER},\ X94,\ \text{ISOGONAL CONJUGATE OF } X(50),$$
$$-\Big(\Big(R\,\big(l^{10}+5\,l^8\,r^2+10\,l^6\,r^4+10\,l^4\,r^6+5\,l^2\,r^8+r^{10}-36\,l^8\,r\,R+56\,l^6\,r^3\,R-288\,l^4\,r^5\,R+136\,l^2\,r^7\,R+4\,r^9\,R-12\,l^8\,R^2+276\,l^6\,r^2\,R^2-892\,l^4\,r^4\,R^2+1052\,l^2\,r^6\,R^2-72\,r^8\,R^2+372\,l^6\,r\,R^3-1636\,l^4\,r^3\,R^3+3420\,l^2\,r^5\,R^3-716\,r^7\,R^3+54\,l^6\,R^4-2274\,l^4\,r^2\,R^4+5754\,l^2\,r^4\,R^4-2798\,r^6\,R^4-1404\,l^4\,r\,R^5+6720\,l^2\,r^3\,R^5-5892\,r^5\,R^5-108\,l^4\,R^6+5652\,l^2\,r^2\,R^6-7632\,r^4\,R^6+2268\,l^2\,r\,R^7-6948\,r^3\,R^7+81\,l^2\,R^8-4347\,r^2\,R^8-1296\,r\,R^9\big)\Big)\Big/\Big((2\,r-R)\,\big(l^4+2\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-12\,l^2\,R^2+28\,r^2\,R^2+48\,r\,R^3+27\,R^4\big)^2\Big)\Big)\}$$

$$\{X36,\ \text{INVERSE-IN-CIRCUMCIRCLE OF INCENTER},\ X95,\ \text{CEVAPOINT OF CENTROID AND CIRCUMCENTER},$$
$$-\Big(\Big(R\,\big(l^{10}+21\,l^8\,r^2+58\,l^6\,r^4+58\,l^4\,r^6+21\,l^2\,r^8+r^{10}-24\,l^8\,r\,R-152\,l^6\,r^3\,R-344\,l^4\,r^5\,R+312\,l^2\,r^7\,R+16\,r^9\,R-8\,l^8\,R^2+32\,l^6\,r^2\,R^2-320\,l^4\,r^4\,R^2+1536\,l^2\,r^6\,R^2+104\,r^8\,R^2+160\,l^6\,r\,R^3-160\,l^4\,r^3\,R^3+3360\,l^2\,r^5\,R^3+352\,r^7\,R^3+16\,l^6\,R^4-400\,l^4\,r^2\,R^4+3312\,l^2\,r^4\,R^4+656\,r^6\,R^4-256\,l^4\,r\,R^5+1152\,l^2\,r^3\,R^5+640\,r^5\,R^5+256\,r^4\,R^6\big)\Big)\Big/\Big((2\,r-R)\,\big(l^4+18\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-4\,l^2\,R^2+20\,r^2\,R^2+16\,r\,R^3\big)^2\Big)\Big)\}$$

$$\{X36,\ \text{INVERSE-IN-CIRCUMCIRCLE OF INCENTER},\ X96,$$
$$\text{ISOGONAL CONJUGATE OF } X(52),\ \frac{1}{(2\,r-R)\,\big(l^4-14\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R+16\,r^2\,R^2-4\,R^4\big)^2}$$
$$R\,\big(l^{10}-11\,l^8\,r^2-38\,l^6\,r^4-38\,l^4\,r^6-11\,l^2\,r^8+r^{10}-12\,l^8\,r\,R+88\,l^6\,r^3\,R+368\,l^4\,r^5\,R-216\,l^2\,r^7\,R+28\,r^9\,R-12\,l^8\,R^2+136\,l^6\,r^2\,R^2+336\,l^4\,r^4\,R^2-1320\,l^2\,r^6\,R^2+284\,r^8\,R^2+112\,l^6\,r\,R^3-416\,l^4\,r^3\,R^3-2960\,l^2\,r^5\,R^3+1408\,r^7\,R^3+56\,l^6\,R^4-584\,l^4\,r^2\,R^4-1720\,l^2\,r^4\,R^4+3656\,r^6\,R^4-384\,l^4\,r\,R^5+608\,l^2\,r^3\,R^5+4704\,r^5\,R^5-128\,l^4\,R^6+1056\,l^2\,r^2\,R^6+2272\,r^4\,R^6+576\,l^2\,r\,R^7-256\,r^3\,R^7+144\,l^2\,R^8-688\,r^2\,R^8-320\,r\,R^9-64\,R^{10}\big)\}$$

$$\{X36,\ \text{INVERSE-IN-CIRCUMCIRCLE OF INCENTER},\ X97,\ \text{ISOGONAL CONJUGATE OF } X(53),$$
$$\Big(R^2\,\big(2\,l^8\,r-20\,l^6\,r^3+56\,l^4\,r^5-44\,l^2\,r^7+6\,r^9-42\,l^6\,r^2\,R+282\,l^4\,r^4\,R-414\,l^2\,r^6\,R+94\,r^8\,R-24\,l^6\,r\,R^2+532\,l^4\,r^3\,R^2-1544\,l^2\,r^5\,R^2+620\,r^7\,R^2-l^6\,R^3+397\,l^4\,r^2\,R^3-2887\,l^2\,r^4\,R^3+2235\,r^6\,R^3+120\,l^4\,r\,R^4-2816\,l^2\,r^3\,R^4+4776\,r^5\,R^4+8\,l^4\,R^5-1360\,l^2\,r^2\,R^5+6120\,r^4\,R^5-288\,l^2\,r\,R^6+4512\,r^3\,R^6-16\,l^2\,R^7+1712\,r^2\,R^7+256\,r\,R^8\big)\Big)\Big/\Big((2\,r-R)\,\big(l^4-6\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-7\,l^2\,R^2+23\,r^2\,R^2+28\,r\,R^3+12\,R^4\big)^2\Big)\}$$

$$\{X36,\ \text{INVERSE-IN-CIRCUMCIRCLE OF INCENTER},\ X98,\ \text{TarryPoint},$$
$$\Big(R\,\big(l^6+3\,l^4\,r^2+3\,l^2\,r^4+r^6-12\,l^4\,r\,R-32\,l^2\,r^3\,R+12\,r^5\,R-4\,l^4\,R^2+24\,l^2\,r^2\,R^2+44\,r^4\,R^2+32\,l^2\,r\,R^3+32\,r^3\,R^3-64\,r^2\,R^4\big)\Big)\Big/\Big((2\,r-R)\,\big(l^4-14\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R+16\,r^2\,R^2\big)\Big)\}$$

$$\{X36,\ \text{INVERSE-IN-CIRCUMCIRCLE OF INCENTER},\ X99,\ \text{STEINER POINT},$$
$$-\frac{R\,\big(l^6+3\,l^4\,r^2+3\,l^2\,r^4+r^6-16\,l^4\,r\,R+24\,l^2\,r^3\,R+8\,r^5\,R+16\,r^4\,R^2\big)}{(2\,r-R)\,\big(l^4-14\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R+16\,r^2\,R^2\big)}\}$$

$$\{X36,\ \text{INVERSE-IN-CIRCUMCIRCLE OF INCENTER},\ X100,$$
$$\text{ANTICOMPLEMENT OF FEUERBACH POINT},\ \frac{R^2\,\big(l^2+5\,r^2-16\,r\,R\big)}{(2\,r-R)^2}\}$$

$$\{X37,\ \text{CrosspointOfIncenterAndCentroid},\ X38,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(75),$$
$$-\Big(\Big(4\,r^4\,R\,\big(2\,l^4\,r+4\,l^2\,r^3+2\,r^5-7\,l^4\,R+26\,l^2\,r^2\,R+33\,r^4\,R+4\,l^2\,r\,R^2+204\,r^3\,R^2-36\,l^2\,R^3+560\,r^2\,R^3+576\,r\,R^4\big)\Big)\Big/\Big(\big(l^2+r^2-2\,r\,R\big)^2\,\big(l^2+r^2+4\,r\,R\big)^2\Big)\Big)\}$$

$$\left\{X37,\ \text{CrosspointOfIncenterAndCentroid},\ X39,\ \text{BrocardMidpoint},\ \frac{16\,l^4 r^2 R^2 \left(l^6 - l^4 r^2 - 5\,l^2 r^4 - 3\,r^6 - 24\,l^4 r R + 64\,l^2 r^3 R - 40\,r^5 R + 144\,l^2 r^2 R^2 - 176\,r^4 R^2 - 256\,r^3 R^3\right)}{\left(l^2 + r^2 + 4\,r R\right)^2 \left(l^4 + 2\,l^2 r^2 + r^4 - 8\,l^2 r R + 8\,r^3 R + 16\,r^2 R^2\right)^2}\right\}$$

$$\left\{X37,\ \text{CrosspointOfIncenterAndCentroid},\ X40,\ \text{BEVAN POINT},\ -\frac{4\,R \left(3\,l^4 r + l^2 r^3 - l^4 R + 5\,l^2 r^2 R - r^4 R - 8\,l^2 r R^2 - 8\,r^3 R^2 - 16\,r^2 R^3\right)}{\left(l^2 + r^2 + 4\,r R\right)^2}\right\}$$

$$\left\{X37,\ \text{CrosspointOfIncenterAndCentroid},\ X41,\ X(6)\text{-CEVA CONJUGATE OF } X(31),\ -\left(\left(4\,l^4 r^2 R \left(6\,l^4 r - 20\,l^2 r^3 + 6\,r^5 + 5\,l^4 R - 94\,l^2 r^2 R + 77\,r^4 R - 140\,l^2 r R^2 + 364\,r^3 R^2 - 36\,l^2 R^3 + 752\,r^2 R^3 + 576\,r R^4\right)\right) \Big/ \left(\left(l^2 + r^2 + 4\,r R\right)^2 \left(3\,l^2 r - r^3 + 2\,l^2 R - 8\,r^2 R - 16\,r R^2\right)^2\right)\right)\right\}$$

$$\left\{X37,\ \text{CrosspointOfIncenterAndCentroid},\ X42,\ \text{CROSSPOINT OF INCENTER AND SYMMEDIAN POINT},\ \left(4\,r^2 R \left(2\,l^6 r + 4\,l^4 r^3 + 2\,l^2 r^5 + 4\,l^6 R - l^4 r^2 R - 6\,l^2 r^4 R - r^6 R - 56\,l^4 r R^2 - 60\,l^2 r^3 R^2 - 12\,r^5 R^2 - 124\,l^2 r^2 R^3 - 48\,r^4 R^3 - 64\,r^3 R^4\right)\right) \Big/ \left(\left(l^2 + r^2 - 2\,r R\right)^2 \left(l^2 + r^2 + 4\,r R\right)^2\right)\right\}$$

$$\left\{X37,\ \text{CrosspointOfIncenterAndCentroid},\ X43,\ X(6)\text{-CEVA CONJUGATE OF } X(1),\ \left(4\,r^2 R \left(3\,l^6 r + 7\,l^4 r^3 + 5\,l^2 r^5 + r^7 + 9\,l^6 R - 2\,l^4 r^2 R + l^2 r^4 R + 12\,r^6 R - 144\,l^4 r R^2 + 32\,l^2 r^3 R^2 + 48\,r^5 R^2 + 64\,r^4 R^3\right)\right) \Big/ \left(\left(l^2 + r^2 - 8\,r R\right)^2 \left(l^2 + r^2 + 4\,r R\right)^2\right)\right\}$$

$$\left\{X37,\ \text{CrosspointOfIncenterAndCentroid},\ X44,\ X(6)\text{-LINE CONJUGATE OF } X(1),\ \frac{64\,l^4 r^2 R \left(l^2 r - r^3 + l^2 R - 8\,r^2 R - 16\,r R^2\right)}{\left(l^2 - 3\,r^2 - 12\,r R\right)^2 \left(l^2 + r^2 + 4\,r R\right)^2}\right\}$$

$$\left\{X37,\ \text{CrosspointOfIncenterAndCentroid},\ X45,\ X(9)\text{-BETH CONJUGATE OF } X(1),\ \frac{16\,l^4 r^2 R \left(l^2 r - r^3 + l^2 R - 8\,r^2 R - 16\,r R^2\right)}{\left(l^2 + r^2 + 4\,r R\right)^2 \left(l^2 + 3\,r^2 + 12\,r R\right)^2}\right\}$$

$$\left\{X37,\ \text{CrosspointOfIncenterAndCentroid},\ X46,\ X(4)\text{-CEVA CONJUGATE OF } X(1),\ -\frac{4\,r^2 R \left(3\,l^4 r + l^2 r^3 - 2\,l^4 R + 9\,l^2 r^2 R + l^2 r R^2 + r^3 R^2 - l^2 R^3 + 8\,r^2 R^3 + 16\,r R^4\right)}{(r - R)^2 \left(l^2 + r^2 + 4\,r R\right)^2}\right\}$$

$$\left\{X37,\ \text{CrosspointOfIncenterAndCentroid},\ X47,\ X(110)\text{-BETH CONJUGATE OF } X(34),\ \left(4\,r^2 R \left(6\,l^6 r - 20\,l^4 r^3 + 6\,l^2 r^5 + 4\,l^6 R - 65\,l^4 r^2 R + 42\,l^2 r^4 R - r^6 R - 82\,l^4 r R^2 + 152\,l^2 r^3 R^2 - 14\,r^5 R^2 - 8\,l^4 R^3 + 228\,l^2 r^2 R^3 - 72\,r^4 R^3 + 140\,l^2 r R^4 - 164\,r^3 R^4 + 4\,l^2 R^5 - 160\,r^2 R^5 - 64\,r R^6\right)\right) \Big/ \left(\left(l^2 + r^2 + 4\,r R\right)^2 \left(l^2 - 3\,r^2 - 6\,r R - 2\,R^2\right)^2\right)\right\}$$

$$\left\{X37,\ \text{CrosspointOfIncenterAndCentroid},\ X48,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(63),\ -\left(\left(4\,l^4 R \left(6\,l^4 r - 20\,l^2 r^3 + 6\,r^5 + l^4 R - 54\,l^2 r^2 R + 57\,r^4 R - 44\,l^2 r R^2 + 172\,r^3 R^2 - 4\,l^2 R^3 + 176\,r^2 R^3 + 64\,r R^4\right)\right) \Big/ \left(\left(l^2 + r^2 + 4\,r R\right)^2 \left(3\,l^2 - r^2 - 6\,r R - 8\,R^2\right)^2\right)\right)\right\}$$

$$\left\{X37,\ \text{CrosspointOfIncenterAndCentroid},\ X49,\ \text{CENTER OF SINE-TRIPLE-ANGLE CIRCLE},\ -\frac{1}{\left(l^2 + r^2 + 4\,r R\right)^2 \left(2\,l^2 - 2\,r^2 - 8\,r R - 7\,R^2\right)^2} R \left(8\,l^8 r - 56\,l^6 r^3 + 56\,l^4 r^5 - 8\,l^2 r^7 + l^8 R - 124\,l^6 r^2 R + 358\,l^4 r^4 R - 92\,l^2 r^6 R + r^8 R - 68\,l^6 r R^2 + 808\,l^4 r^3 R^2 - 452\,l^2 r^5 R^2 + 16\,r^7 R^2 - 4\,l^6 R^3 + 580\,l^4 r^2 R^3 - 1076\,l^2 r^4 R^3 + 100\,r^6 R^3 + 124\,l^4 r R^4 - 1148\,l^2 r^3 R^4 + 304\,r^5 R^4 - l^4 R^5 - 358\,l^2 r^2 R^5 + 447\,r^4 R^5 - 8\,l^2 r R^6 + 248\,r^3 R^6 - 16\,r^2 R^7\right)\right\}$$

$$\left\{X37,\ \text{CrosspointOfIncenterAndCentroid},\ X50,\ X(74)\text{-CEVA CONJUGATE OF } X(184),\ \left(16\,l^4 r^2 R \left(2\,l^6 r - 14\,l^4 r^3 + 14\,l^2 r^5 - 2\,r^7 + l^6 R - 33\,l^4 r^2 R + 83\,l^2 r^4 R - 27\,r^6 R - 33\,l^4 r R^2 + 222\,l^2 r^3 R^2 - 145\,r^5 R^2 - 6\,l^4 R^3 + 258\,l^2 r^2 R^3 - 400\,r^4 R^3 + 129\,l^2 r R^4 - 601\,r^3 R^4 + 9\,l^2 R^5 - 456\,r^2 R^5 - 144\,r R^6\right)\right) \Big/ \left(\left(l^2 + r^2 + 4\,r R\right)^2 \left(l^4 - 6\,l^2 r^2 + r^4 - 8\,l^2 r R + 8\,r^3 R - 3\,l^2 R^2 + 19\,r^2 R^2 + 12\,r R^3\right)^2\right)\right\}$$

$$\left\{X37,\ \text{CrosspointOfIncenterAndCentroid},\ X51,\ \text{CENTROID OF ORTHIC TRIANGLE},\ -\frac{1}{36 R^2 \left(l^2+r^2+4 r R\right)^2}\left(l^8+20 l^6 r^2+38 l^4 r^4+20 l^2 r^6+r^8-24 l^6 r R+96 l^4 r^3 R+136 l^2 r^5 R+16 r^7 R-4 l^6 R^2-84 l^4 r^2 R^2+276 l^2 r^4 R^2+100 r^6 R^2+80 l^4 r R^3+32 l^2 r^3 R^3+304 r^5 R^3-272 l^2 r^2 R^4+448 r^4 R^4+256 r^3 R^5\right)\right\}$$

$$\left\{X37,\ \text{CrosspointOfIncenterAndCentroid},\ X52,\ \text{ORTHOCENTER OF ORTHIC TRIANGLE},\ \frac{1}{4 R^2 \left(l^2+r^2+4 r R\right)^2}\left(l^8-12 l^6 r^2-26 l^4 r^4-12 l^2 r^6+r^8+8 l^6 r R-96 l^4 r^3 R-88 l^2 r^5 R+16 r^7 R-4 l^6 R^2-20 l^4 r^2 R^2-172 l^2 r^4 R^2+100 r^6 R^2-32 l^4 r R^3-16 l^2 r^3 R^3+304 r^5 R^3+4 l^4 R^4+88 l^2 r^2 R^4+452 r^4 R^4+32 l^2 r R^5+288 r^3 R^5+64 r^2 R^6\right)\right\}$$

$$\left\{X37,\ \text{CrosspointOfIncenterAndCentroid},\ X53,\ \text{SYMMEDIAN POINT OF ORTHIC TRIANGLE},\ \left(16 l^4 r^2 R \left(l^2-3 r^2-4 r R-4 R^2\right)\left(l^4 r-6 l^2 r^3+r^5+l^4 R-23 l^2 r^2 R+12 r^4 R-24 l^2 r R^2+52 r^3 R^2-4 l^2 R^3+96 r^2 R^3+64 r R^4\right)\right) \Big/ \left(\left(l^2+r^2+4 r R\right)^2 \left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-4 l^2 R^2+20 r^2 R^2+16 r R^3\right)^2\right)\right\}$$

$$\left\{X37,\ \text{CrosspointOfIncenterAndCentroid},\ X54,\ \text{KosnitaPoint},\ -\left(\left(R \left(8 l^8 r-56 l^6 r^3+56 l^4 r^5-8 l^2 r^7-120 l^6 r^2 R+368 l^4 r^4 R-88 l^2 r^6 R-52 l^6 r R^2+776 l^4 r^3 R^2-388 l^2 r^5 R^2+l^6 R^3+441 l^4 r^2 R^3-809 l^2 r^4 R^3-r^6 R^3+84 l^4 r R^4-736 l^2 r^3 R^4-12 r^5 R^4-4 l^4 R^5-204 l^2 r^2 R^5-52 r^4 R^5-32 l^2 r R^6-96 r^3 R^6-64 r^2 R^7\right)\right) \Big/ \left(\left(l^2+r^2+4 r R\right)^2 \left(2 l^2-2 r^2-8 r R-5 R^2\right)^2\right)\right)\right\}$$

$$\left\{X37,\ \text{CrosspointOfIncenterAndCentroid},\ X55,\ \text{INSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ -\frac{r^2 R \left(4 l^4 r-4 l^2 r^3+l^4 R-18 l^2 r^2 R+r^4 R-36 l^2 r R^2+12 r^3 R^2-4 l^2 R^3+48 r^2 R^3+64 r R^4\right)}{(r+R)^2 \left(l^2+r^2+4 r R\right)^2}\right\}$$

$$\left\{X37,\ \text{CrosspointOfIncenterAndCentroid},\ X56,\ \text{EXSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ \frac{r^2 R \left(-4 l^4 r+4 l^2 r^3+3 l^4 R-6 l^2 r^2 R+3 r^4 R-12 l^2 r R^2+20 r^3 R^2+4 l^2 R^3+16 r^2 R^3-64 r R^4\right)}{(r-R)^2 \left(l^2+r^2+4 r R\right)^2}\right\}$$

$$\left\{X37,\ \text{CrosspointOfIncenterAndCentroid},\ X57,\ \text{ISOGONAL CONJUGATE OF } X(9),\ -\frac{4 r^2 R \left(3 l^4 r+l^2 r^3-3 l^4 R+13 l^2 r^2 R+r^4 R+8 l^2 r R^2+12 r^3 R^2-4 l^2 R^3+48 r^2 R^3+64 r R^4\right)}{(r-2 R)^2 \left(l^2+r^2+4 r R\right)^2}\right\}$$

$$\left\{X37,\ \text{CrosspointOfIncenterAndCentroid},\ X58,\ \text{ISOGONAL CONJUGATE OF } X(10),\ \left(4 r^2 R \left(6 l^6 r-20 l^4 r^3+6 l^2 r^5+4 l^6 R-55 l^4 r^2 R+22 l^2 r^4 R+r^6 R-64 l^4 r R^2+40 l^2 r^3 R^2+8 r^5 R^2+16 r^4 R^3\right)\right) \Big/ \left(\left(l^2-3 r^2-4 r R\right)^2 \left(l^2+r^2+4 r R\right)^2\right)\right\}$$

$$\left\{X37,\ \text{CrosspointOfIncenterAndCentroid},\ X59,\ \text{ISOGONAL CONJUGATE OF } X(11),\ \left(r^2 R \left(-4 l^8+28 l^6 r^2-28 l^4 r^4+4 l^2 r^6+56 l^6 r R-208 l^4 r^3 R+56 l^2 r^5 R+19 l^6 R^2-401 l^4 r^2 R^2+285 l^2 r^4 R^2+r^6 R^2-68 l^4 r R^3+576 l^2 r^3 R^3+20 r^5 R^3+140 l^2 r^2 R^4+160 r^4 R^4-672 l^2 r R^5+640 r^3 R^5-64 l^2 R^6+1280 r^2 R^6+1024 r R^7\right)\right) \Big/ \left((2 r-R) \left(l^2+r^2+4 r R\right)^2 \left(-l^2+r^2+5 r R+4 R^2\right)^2\right)\right\}$$

$$\left\{X37,\ \text{CrosspointOfIncenterAndCentroid},\ X60,\ \text{ISOGONAL CONJUGATE OF } X(12),\ -\left(\left(r^2 R \left(8 l^8 r-56 l^6 r^3+56 l^4 r^5-8 l^2 r^7+4 l^8 R-156 l^6 r^2 R+348 l^4 r^4 R-68 l^2 r^6 R-138 l^6 r R^2+926 l^4 r^3 R^2-278 l^2 r^5 R^2+2 r^7 R^2-25 l^6 R^3+1051 l^4 r^2 R^3-599 l^2 r^4 R^3+21 r^6 R^3+420 l^4 r R^4-696 l^2 r^3 R^4+76 r^5 R^4-324 l^2 r^2 R^5+112 r^4 R^5+64 r^3 R^6\right)\right) \Big/ \left(\left(l^2+r^2+4 r R\right)^2 \left(2 l^2 r-2 r^3+l^2 R-7 r^2 R-7 r R^2\right)^2\right)\right)\right\}$$

$$\left\{X37,\ \text{CrosspointOfIncenterAndCentroid},\ X61,\ \text{ISOGONAL CONJUGATE OF } X(17),\ -\left(\left(12\,l^2\,r^2\,R\left(2\sqrt{3}\,l^5-8\,l^4\,r-12\sqrt{3}\,l^3\,r^2+8\,l^2\,r^3+2\sqrt{3}\,l\,r^4-13\,l^4\,R-24\sqrt{3}\,l^3\,r\,R+90\,l^2\,r^2\,R+16\sqrt{3}\,l\,r^3\,R-r^4\,R+184\,l^2\,r\,R^2+32\sqrt{3}\,l\,r^2\,R^2-8\,r^3\,R^2-16\,r^2\,R^3\right)\right)\Big/\left(\left(3\,l^2+2\sqrt{3}\,l\,r-3\,r^2-12\,r\,R\right)^2\left(l^2+r^2+4\,r\,R\right)^2\right)\right)\right\}$$

$$\left\{X37,\ \text{CrosspointOfIncenterAndCentroid},\ X62,\ \text{ISOGONAL CONJUGATE OF } X(18),\ \left(12\,l^2\,r^2\,R\left(2\sqrt{3}\,l^5+8\,l^4\,r-12\sqrt{3}\,l^3\,r^2-8\,l^2\,r^3+2\sqrt{3}\,l\,r^4+13\,l^4\,R-24\sqrt{3}\,l^3\,r\,R-90\,l^2\,r^2\,R+16\sqrt{3}\,l\,r^3\,R+r^4\,R-184\,l^2\,r\,R^2+32\sqrt{3}\,l\,r^2\,R^2+8\,r^3\,R^2+16\,r^2\,R^3\right)\right)\Big/\left(\left(3\,l^2-2\sqrt{3}\,l\,r-3\,r^2-12\,r\,R\right)^2\left(l^2+r^2+4\,r\,R\right)^2\right)\right\}$$

$$\left\{X37,\ \text{CrosspointOfIncenterAndCentroid},\ X63,\ \text{ISOGONAL CONJUGATE OF } X(19),\ -\frac{1}{(r+R)^2\left(l^2+r^2+4\,r\,R\right)^2}R\left(-2\,l^6\,r+8\,l^4\,r^3+2\,l^2\,r^5-l^6\,R+11\,l^4\,r^2\,R+25\,l^2\,r^4\,R+r^6\,R+12\,l^4\,r\,R^2+56\,l^2\,r^3\,R^2+12\,r^5\,R^2+60\,l^2\,r^2\,R^3+48\,r^4\,R^3+64\,r^3\,R^4\right)\right\}$$

$$\left\{X37,\ \text{CrosspointOfIncenterAndCentroid},\ X64,\ \text{ISOGONAL CONJUGATE OF } X(20),\ -\frac{1}{(l-r-2\,R)^2\,(l+r+2\,R)^2\left(l^2+r^2+4\,r\,R\right)^2}4\,R\left(2\,l^8\,r-2\,l^6\,r^3+2\,l^4\,r^5-2\,l^2\,r^7-3\,l^8\,R-12\,l^6\,r^2\,R+14\,l^4\,r^4\,R-16\,l^2\,r^6\,R-3\,r^8\,R-16\,l^6\,r\,R^2+56\,l^4\,r^3\,R^2-40\,l^2\,r^5\,R^2-48\,r^7\,R^2+28\,l^6\,R^3+156\,l^4\,r^2\,R^3-44\,l^2\,r^4\,R^3-316\,r^6\,R^3+144\,l^4\,r\,R^4-160\,l^2\,r^3\,R^4-1104\,r^5\,R^4-64\,l^4\,R^5-528\,l^2\,r^2\,R^5-2176\,r^4\,R^5-512\,l^2\,r\,R^6-2304\,r^3\,R^6-1024\,r^2\,R^7\right)\right\}$$

$$\left\{X37,\ \text{CrosspointOfIncenterAndCentroid},\ X65,\ \text{ORTHOCENTER OF THE INTOUCH TRIANGLE},\ -\frac{r^2\left(2\,l^4\,r+4\,l^2\,r^3+2\,r^5-3\,l^4\,R+18\,l^2\,r^2\,R+21\,r^4\,R+4\,l^2\,r\,R^2+76\,r^3\,R^2-4\,l^2\,R^3+112\,r^2\,R^3+64\,r\,R^4\right)}{R\left(l^2+r^2+4\,r\,R\right)^2}\right\}$$

$$\left\{X37,\ \text{CrosspointOfIncenterAndCentroid},\ X66,\ \text{ISOGONAL CONJUGATE OF } X(22),\ \frac{1}{(l-r-2\,R)^2\,(l+r+2\,R)^2\left(l^2-r^2-4\,r\,R\right)^2\left(l^2+r^2+4\,r\,R\right)^2}\left(4\,l^{12}\,r^2-4\,l^{10}\,r^4-8\,l^8\,r^6+8\,l^6\,r^8+4\,l^4\,r^{10}-4\,l^2\,r^{12}-4\,l^{12}\,r\,R-4\,l^{10}\,r^3\,R-88\,l^8\,r^5\,R+136\,l^6\,r^7\,R+28\,l^4\,r^9\,R-68\,l^2\,r^{11}\,R-l^{12}\,R^2+34\,l^{10}\,r^2\,R^2-319\,l^8\,r^4\,R^2+844\,l^6\,r^6\,R^2-95\,l^4\,r^8\,R^2-462\,l^2\,r^{10}\,R^2-r^{12}\,R^2+40\,l^{10}\,r\,R^3-456\,l^8\,r^3\,R^3+2400\,l^6\,r^5\,R^3-1440\,l^4\,r^7\,R^3-1544\,l^2\,r^9\,R^3-24\,r^{11}\,R^3+4\,l^{10}\,R^4-292\,l^8\,r^2\,R^4+3176\,l^6\,r^4\,R^4-5224\,l^4\,r^6\,R^4-2284\,l^2\,r^8\,R^4-244\,r^{10}\,R^4-80\,l^8\,r\,R^5+1792\,l^6\,r^3\,R^5-8416\,l^4\,r^5\,R^5+384\,l^2\,r^7\,R^5-1360\,r^9\,R^5+336\,l^6\,r^2\,R^6-5984\,l^4\,r^4\,R^6+5840\,l^2\,r^6\,R^6-4480\,r^8\,R^6-1408\,l^4\,r^3\,R^7+6784\,l^2\,r^5\,R^7-8704\,r^7\,R^7+2304\,l^2\,r^4\,R^8-9216\,r^6\,R^8-4096\,r^5\,R^9\right)\right\}$$

$$\left\{X37,\ \text{CrosspointOfIncenterAndCentroid},\ X67,\ \text{ISOGONAL CONJUGATE OF } X(23),\ \frac{1}{\left(l^2-r^2-4\,r\,R\right)^2\left(l^2+r^2+4\,r\,R\right)^2\left(2\,l^2-2\,r^2-8\,r\,R-9\,R^2\right)}\left(l^{12}+10\,l^{10}\,r^2-l^8\,r^4-20\,l^6\,r^6-l^4\,r^8+10\,l^2\,r^{10}+r^{12}-20\,l^{10}\,r\,R+8\,l^8\,r^3\,R-168\,l^6\,r^5\,R+32\,l^4\,r^7\,R+124\,l^2\,r^9\,R+24\,r^{11}\,R-4\,l^{10}\,R^2+28\,l^8\,r^2\,R^2-448\,l^6\,r^4\,R^2+400\,l^4\,r^6\,R^2+548\,l^2\,r^8\,R^2+244\,r^{10}\,R^2+64\,l^8\,r\,R^3-400\,l^6\,r^3\,R^3+1472\,l^4\,r^5\,R^3+960\,l^2\,r^7\,R^3+1360\,r^9\,R^3-64\,l^6\,r^2\,R^4+2048\,l^4\,r^4\,R^4+304\,l^2\,r^6\,R^4+4480\,r^8\,R^4+1024\,l^4\,r^3\,R^5-640\,l^2\,r^5\,R^5+8704\,r^7\,R^5-256\,l^2\,r^4\,R^6+9216\,r^6\,R^6+4096\,r^5\,R^7\right)\right\}$$

$$\left\{X37,\ \text{CrosspointOfIncenterAndCentroid},\ X68,\ \text{PRASOLOV POINT},\ \frac{1}{(1-r-2R)^2\,(1+r+2R)^2\,\left(l^2+r^2+4rR\right)^2}\right.$$
$$\left(4l^8r^2+4l^6r^4-4l^4r^6-4l^2r^8-4l^8rR+20l^6r^3R-44l^4r^5R-36l^2r^7R+l^8R^2+8l^6r^2R^2-178l^4r^4R^2-104l^2r^6R^2+r^8R^2+24l^6rR^3-304l^4r^3R^3-56l^2r^5R^3+16r^7R^3-4l^6R^4-164l^4r^2R^4+260l^2r^4R^4+100r^6R^4-48l^4rR^5+512l^2r^3R^5+304r^5R^5+4l^4R^6+264l^2r^2R^6+452r^4R^6+32l^2rR^7+288r^3R^7+64r^2R^8\right)\Big\}$$

$$\{X37,\ \text{CrosspointOfIncenterAndCentroid},\ X69,\ \text{SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},$$
$$\left(l^{10}+7l^8r^2+6l^6r^4-6l^4r^6-7l^2r^8-r^{10}-12l^8rR+16l^6r^3R-48l^4r^5R-64l^2r^7R-20r^9R-44l^6r^2R^2-168l^4r^4R^2-204l^2r^6R^2-160r^8R^2-288l^4r^3R^3-352l^2r^5R^3-640r^7R^3-448l^2r^4R^4-1280r^6R^4-1024r^5R^5\right)\Big/\left(\left(l^2-r^2-4rR\right)^2\left(l^2+r^2+4rR\right)^2\right)\Big\}$$

$$\{X37,\ \text{CrosspointOfIncenterAndCentroid},\ X70,\ \text{ISOGONAL CONJUGATE OF X(26)},$$
$$\left(4l^{12}r^2-4l^{10}r^4-8l^8r^6+8l^6r^8+4l^4r^{10}-4l^2r^{12}-4l^{12}rR-4l^{10}r^3R-88l^8r^5R+136l^6r^7R+28l^4r^9R-68l^2r^{11}R+20l^{10}r^2R^2-320l^8r^4R^2+872l^6r^6R^2-96l^4r^8R^2-476l^2r^{10}R^2+44l^{10}rR^3-496l^8r^3R^3+2712l^6r^5R^3-1552l^4r^7R^3-1732l^2r^9R^3-l^{10}R^4-387l^8r^2R^4+4334l^6r^4R^4-6334l^4r^6R^4-3245l^2r^8R^4+r^{10}R^4-160l^8rR^5+3500l^6r^3R^5-12660l^4r^5R^5-1772l^2r^7R^5+20r^9R^5+6l^8R^6+1344l^6r^2R^6-13436l^4r^4R^6+4752l^2r^6R^6+166r^8R^6+236l^6rR^7-7256l^4r^3R^7+10780l^2r^5R^7+736r^7R^7-9l^6R^8-1713l^4r^2R^8+9473l^2r^4R^8+1865r^6R^8-148l^4rR^9+3968l^2r^3R^9+2668r^5R^9+4l^4R^{10}+684l^2r^2R^{10}+1972r^4R^{10}+32l^2rR^{11}+608r^3R^{11}+64r^2R^{12}\right)\Big/$$
$$\left(\left(l^2+r^2+4rR\right)^2\left(l^4-2l^2r^2+r^4-8l^2rR+8r^3R-6l^2R^2+22r^2R^2+24rR^3+7R^4\right)^2\right)\Big\}$$

$$\{X37,\ \text{CrosspointOfIncenterAndCentroid},\ X71,\ \text{ISOGONAL CONJUGATE OF X(27)},$$
$$-\frac{4l^4R\left(2l^4r+4l^2r^3+2r^5-3l^4R+18l^2r^2R+21r^4R+4l^2rR^2+76r^3R^2-4l^2R^3+112r^2R^3+64rR^4\right)}{\left(l^2+r^2+4rR\right)^2\left(l^2+r^2+6rR+8R^2\right)^2}\Big\}$$

$$\{X37,\ \text{CrosspointOfIncenterAndCentroid},\ X72,\ \text{ISOGONAL CONJUGATE OF X(28)},\ -\frac{\left(l^2+r^2+2rR\right)^2\left(-l^2r+r^3-l^2R+8r^2R+16rR^2\right)}{R\left(l^2+r^2+4rR\right)^2}\Big\}$$

$$\{X37,\ \text{CrosspointOfIncenterAndCentroid},\ X73,\ \text{CROSSPOINT OF INCENTER AND CIRCUMCENTER},$$
$$\left(4r^2R\left(2l^6r+4l^4r^3+2l^2r^5-5l^4r^2R-2l^2r^4R+3r^6R-44l^4rR^2-4l^2r^3R^2+32r^5R^2-4l^4R^3+124l^2r^2R^3+108r^4R^3+224l^2rR^4+80r^3R^4+16l^2R^5-192r^2R^5-256rR^6\right)\right)\Big/$$
$$\left(\left(l^2+r^2+4rR\right)^2\left(l^2+r^2-2rR-4R^2\right)^2\right)\Big\}$$

$$\{X37,\ \text{CrosspointOfIncenterAndCentroid},\ X74,\ \text{ISOGONAL CONJUGATE OF EULER INFINITY POINT},$$
$$-\left(\left(R\left(12l^6r-8l^4r^3+12l^2r^5-9l^6R-41l^4r^2R+57l^2r^4R+9r^6R-84l^4rR^2+96l^2r^3R^2+108r^5R^2+36l^4R^3+204l^2r^2R^3+468r^4R^3+288l^2rR^4+864r^3R^4+576r^2R^5\right)\right)\Big/$$
$$\left(\left(l^2+r^2+4rR\right)^2\left(2l^2-2r^2-8rR-9R^2\right)\right)\right)\Big\}$$

$$\{X37,\ \text{CrosspointOfIncenterAndCentroid},\ X75,\ \text{ISOTOMIC CONJUGATE OF INCENTER},$$
$$\frac{l^6+l^4r^2-l^2r^4-r^6-20l^4rR+40l^2r^3R-12r^5R+68l^2r^2R^2-48r^4R^2-64r^3R^3}{\left(l^2+r^2+4rR\right)^2}\Big\}$$

$$\left\{X37,\ \text{CrosspointOfIncenterAndCentroid},\ X76,\ \text{3rd BROCARD POINT},\ \frac{1}{\left(l^2+r^2+4\,r\,R\right)^2\left(l^4+2\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R+16\,r^2\,R^2\right)^2}\left(l^{14}+5\,l^{12}\,r^2+9\,l^{10}\,r^4+5\,l^8\,r^6-5\,l^6\,r^8-9\,l^4\,r^{10}-5\,l^2\,r^{12}-r^{14}-20\,l^{12}\,r\,R-40\,l^{10}\,r^3\,R+12\,l^8\,r^5\,R+48\,l^6\,r^7\,R-28\,l^4\,r^9\,R-72\,l^2\,r^{11}\,R-28\,r^{13}\,R+68\,l^{10}\,r^2\,R^2+96\,l^8\,r^4\,R^2+312\,l^6\,r^6\,R^2+272\,l^4\,r^8\,R^2-348\,l^2\,r^{10}\,R^2-336\,r^{12}\,R^2-128\,l^8\,r^3\,R^3+1216\,l^6\,r^5\,R^3+1088\,l^4\,r^7\,R^3-448\,l^2\,r^9\,R^3-2240\,r^{11}\,R^3+1152\,l^6\,r^4\,R^4+1152\,l^2\,r^8\,R^4-8960\,r^{10}\,R^4-2048\,l^4\,r^5\,R^5+3072\,l^2\,r^7\,R^5-21504\,r^9\,R^5+1024\,l^2\,r^6\,R^6-28672\,r^8\,R^6-16384\,r^7\,R^7\right)\right\}$$

$$\left\{X37,\ \text{CrosspointOfIncenterAndCentroid},\ X77,\ \text{ISOGONAL CONJUGATE OF X(33)},\ \left(r^2\,R\left(6\,l^6\,r+2\,l^2\,r^5-3\,l^6\,R-27\,l^4\,r^2\,R+27\,l^2\,r^4\,R-r^6\,R-108\,l^4\,r\,R^2+160\,l^2\,r^3\,R^2-20\,r^5\,R^2+500\,l^2\,r^2\,R^3-160\,r^4\,R^3+672\,l^2\,r\,R^4-640\,r^3\,R^4+64\,l^2\,R^5-1280\,r^2\,R^5-1024\,r\,R^6\right)\right)\Big/\left(\left(l^2+r^2+4\,r\,R\right)^2\left(l^2-r\,R-4\,R^2\right)^2\right)\right\}$$

$$\left\{X37,\ \text{CrosspointOfIncenterAndCentroid},\ X78,\ \text{ISOGONAL CONJUGATE OF X(34)},\ -\frac{1}{(r-R)^2\left(l^2+r^2+4\,r\,R\right)^2}R\left(-2\,l^4\,r^3-8\,l^2\,r^5+2\,r^7-l^6\,R-9\,l^4\,r^2\,R-7\,l^2\,r^4\,R+21\,r^6\,R+12\,l^4\,r\,R^2+40\,l^2\,r^3\,R^2+76\,r^5\,R^2+60\,l^2\,r^2\,R^3+112\,r^4\,R^3+64\,r^3\,R^4\right)\right\}$$

$$\left\{X37,\ \text{CrosspointOfIncenterAndCentroid},\ X79,\ \text{ISOGONAL CONJUGATE OF X(35)},\ -\left(\left(4\,r^2\left(2\,l^6+4\,l^4\,r^2+2\,l^2\,r^4+9\,l^4\,r\,R+2\,l^2\,r^3\,R+r^5\,R-12\,l^4\,R^2-42\,l^2\,r^2\,R^2+14\,r^4\,R^2-93\,l^2\,r\,R^3+73\,r^3\,R^3-9\,l^2\,R^4+168\,r^2\,R^4+144\,r\,R^5\right)\right)\Big/\left((2\,r+3\,R)^2\left(l^2+r^2+4\,r\,R\right)^2\right)\right)\right\}$$

$$\left\{X37,\ \text{CrosspointOfIncenterAndCentroid},\ X80,\ \text{REFLECTION OF INCENTER IN FEUERBACH POINT},\ \frac{4\,r^2\left(l^4\,r+2\,l^2\,r^3+r^5-2\,l^4\,R+12\,l^2\,r^2\,R+10\,r^4\,R+9\,l^2\,r\,R^2+33\,r^3\,R^2-l^2\,R^3+40\,r^2\,R^3+16\,r\,R^4\right)}{(2\,r-R)\left(l^2+r^2+4\,r\,R\right)^2}\right\}$$

$$\left\{X37,\ \text{CrosspointOfIncenterAndCentroid},\ X81,\ \text{CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},\ \left(r^2\,R\left(12\,l^6\,r-24\,l^4\,r^3-4\,l^2\,r^5+9\,l^6\,R-87\,l^4\,r^2\,R-49\,l^2\,r^4\,R-r^6\,R-132\,l^4\,r\,R^2-152\,l^2\,r^3\,R^2-12\,r^5\,R^2-188\,l^2\,r^2\,R^3-48\,r^4\,R^3-64\,r^3\,R^4\right)\right)\Big/\left(\left(l^2-r^2-r\,R\right)^2\left(l^2+r^2+4\,r\,R\right)^2\right)\right\}$$

$$\left\{X37,\ \text{CrosspointOfIncenterAndCentroid},\ X82,\ \text{ISOGONAL CONJUGATE OF X(38)},\ \left(r^2\,R\left(3\,l^2-r^2-4\,r\,R\right)^2\left(2\,l^6\,r-14\,l^4\,r^3+14\,l^2\,r^5-2\,r^7+l^6\,R-39\,l^4\,r^2\,R+103\,l^2\,r^4\,R-33\,r^6\,R-28\,l^4\,r\,R^2+272\,l^2\,r^3\,R^2-204\,r^5\,R^2+228\,l^2\,r^2\,R^3-560\,r^4\,R^3-576\,r^3\,R^4\right)\right)\Big/\left(\left(l^2+r^2+4\,r\,R\right)^2\left(l^4-4\,l^2\,r^2+3\,r^4-9\,l^2\,r\,R+19\,r^3\,R+28\,r^2\,R^2\right)^2\right)\right\}$$

$$\left\{X37,\ \text{CrosspointOfIncenterAndCentroid},\ X83,\ \text{CEVAPOINT OF CENTROID AND SYMMEDIAN POINT},\ \left(l^{14}-11\,l^{12}\,r^2-39\,l^{10}\,r^4-27\,l^8\,r^6+27\,l^6\,r^8+39\,l^4\,r^{10}+11\,l^2\,r^{12}-r^{14}-52\,l^{12}\,r\,R+408\,l^{10}\,r^3\,R-628\,l^8\,r^5\,R+752\,l^6\,r^7\,R+132\,l^4\,r^9\,R+312\,l^2\,r^{11}\,R-28\,r^{13}\,R+1028\,l^{10}\,r^2\,R^2-5088\,l^8\,r^4\,R^2+7800\,l^6\,r^6\,R^2-3760\,l^4\,r^8\,R^2+3492\,l^2\,r^{10}\,R^2-336\,r^{12}\,R^2-9600\,l^8\,r^3\,R^3+32448\,l^6\,r^5\,R^3-31936\,l^4\,r^7\,R^3+20032\,l^2\,r^9\,R^3-2240\,r^{11}\,R^3+43136\,l^6\,r^4\,R^4-91136\,l^4\,r^6\,R^4+62592\,l^2\,r^8\,R^4-8960\,r^{10}\,R^4-88064\,l^4\,r^5\,R^5+101376\,l^2\,r^7\,R^5-21504\,r^9\,R^5+66560\,l^2\,r^6\,R^6-28672\,r^8\,R^6-16384\,r^7\,R^7\right)\Big/\left(\left(l^2+r^2+4\,r\,R\right)^2\left(5\,l^4-6\,l^2\,r^2+5\,r^4-40\,l^2\,r\,R+40\,r^3\,R+80\,r^2\,R^2\right)^2\right)\right\}$$

$$\left\{X37,\ \text{CrosspointOfIncenterAndCentroid},\ X84,\ \text{ISOGONAL CONJUGATE OF X(40)},\ -\frac{1}{r^2\left(l^2+r^2+4\,r\,R\right)^2}4\,R\left(-l^6\,r+l^4\,r^3+l^6\,R-4\,l^4\,r^2\,R+2\,l^2\,r^4\,R+8\,l^4\,r\,R^2-4\,l^4\,R^3+8\,l^2\,r^2\,R^3-4\,r^4\,R^3-32\,l^2\,r\,R^4-32\,r^3\,R^4-64\,r^2\,R^5\right)\right\}$$

$$\Big\{X37,\ \text{CrosspointOfIncenterAndCentroid},\ X85,\ \text{ISOTOMIC CONJUGATE OF } X(9),\ \frac{1}{\left(l^2+r^2+4\,r\,R\right)^2\left(l^2+r^2+8\,r\,R+16\,R^2\right)^2}$$
$$\left(l^{10}+3\,l^8\,r^2+2\,l^6\,r^4-2\,l^4\,r^6-3\,l^2\,r^8-r^{10}-20\,l^8\,r\,R-16\,l^6\,r^3\,R-32\,l^2\,r^7\,R-28\,r^9\,R-124\,l^6\,r^2\,R^2+184\,l^4\,r^4\,R^2-28\,l^2\,r^6\,R^2-336\,r^8\,R^2-64\,l^6\,r\,R^3+960\,l^4\,r^3\,R^3+832\,l^2\,r^5\,R^3-2240\,r^7\,R^3+1408\,l^4\,r^2\,R^4+3712\,l^2\,r^4\,R^4-8960\,r^6\,R^4+5120\,l^2\,r^3\,R^5-21504\,r^5\,R^5+1024\,l^2\,r^2\,R^6-28672\,r^4\,R^6-16384\,r^3\,R^7\right)\Big\}$$

$$\Big\{X37,\ \text{CrosspointOfIncenterAndCentroid},\ X86,\ \text{CEVAPOINT OF INCENTER AND CENTROID},$$
$$\left(l^{10}-5\,l^8\,r^2-22\,l^6\,r^4-26\,l^4\,r^6-11\,l^2\,r^8-r^{10}-28\,l^8\,r\,R+112\,l^6\,r^3\,R-96\,l^4\,r^5\,R-128\,l^2\,r^7\,R-20\,r^9\,R+212\,l^6\,r^2\,R^2-24\,l^4\,r^4\,R^2-588\,l^2\,r^6\,R^2-160\,r^8\,R^2-224\,l^4\,r^3\,R^3-1376\,l^2\,r^5\,R^3-640\,r^7\,R^3-1472\,l^2\,r^4\,R^4-1280\,r^6\,R^4-1024\,r^5\,R^5\right)\Big/\left(\left(l^2+r^2+4\,r\,R\right)^2\left(5\,l^2+r^2+4\,r\,R\right)^2\right)\Big\}$$

$$\Big\{X37,\ \text{CrosspointOfIncenterAndCentroid},\ X87,\ X(2)\text{-CROSS CONJUGATE OF } X(1),$$
$$\left(4\,r^2\,R\left(3\,l^{10}\,r+13\,l^8\,r^3+22\,l^6\,r^5+18\,l^4\,r^7+7\,l^2\,r^9+r^{11}+9\,l^{10}\,R-88\,l^8\,r^2\,R-170\,l^6\,r^4\,R-20\,l^4\,r^6\,R+73\,l^2\,r^8\,R+20\,r^{10}\,R-264\,l^8\,r\,R^2+1000\,l^6\,r^3\,R^2-632\,l^4\,r^5\,R^2+312\,l^2\,r^7\,R^2+160\,r^9\,R^2+2320\,l^6\,r^2\,R^3-2656\,l^4\,r^4\,R^3+784\,l^2\,r^6\,R^3+640\,r^8\,R^3-6400\,l^4\,r^3\,R^4+1024\,l^2\,r^5\,R^4+1280\,r^7\,R^4+1024\,r^6\,R^5\right)\right)\Big/\left(\left(l^2+r^2+4\,r\,R\right)^2\left(l^4+2\,l^2\,r^2+r^4-20\,l^2\,r\,R+12\,r^3\,R+32\,r^2\,R^2\right)^2\right)\Big\}$$

$$\Big\{X37,\ \text{CrosspointOfIncenterAndCentroid},\ X88,\ \text{ISOGONAL CONJUGATE OF } X(44),$$
$$-\left(\left(r^2\,R\left(20\,l^6\,r+88\,l^4\,r^3+36\,l^2\,r^5-25\,l^6\,R-313\,l^4\,r^2\,R+513\,l^2\,r^4\,R+81\,r^6\,R+580\,l^4\,r\,R^2-1512\,l^2\,r^3\,R^2+972\,r^5\,R^2-3204\,l^2\,r^2\,R^3+3888\,r^4\,R^3+5184\,r^3\,R^4\right)\right)\Big/\left(\left(l^2+3\,r^2-15\,r\,R\right)^2\left(l^2+r^2+4\,r\,R\right)^2\right)\right)\Big\}$$

$$\Big\{X37,\ \text{CrosspointOfIncenterAndCentroid},\ X89,\ \text{ISOGONAL CONJUGATE OF } X(45),$$
$$\left(r^2\,R\left(112\,l^6\,r-544\,l^4\,r^3-144\,l^2\,r^5+49\,l^6\,R-527\,l^4\,r^2\,R-1809\,l^2\,r^4\,R-81\,r^6\,R-532\,l^4\,r\,R^2-3672\,l^2\,r^3\,R^2-972\,r^5\,R^2-3708\,l^2\,r^2\,R^3-3888\,r^4\,R^3-5184\,r^3\,R^4\right)\right)\Big/\left(\left(2\,l^2-6\,r^2+3\,r\,R\right)^2\left(l^2+r^2+4\,r\,R\right)^2\right)\Big\}$$

$$\Big\{X37,\ \text{CrosspointOfIncenterAndCentroid},\ X90,\ X(3)\text{-CROSS CONJUGATE OF } X(1),$$
$$\left(4\,r^2\,R\left(l^6\,r-l^4\,r^3-2\,l^4\,r^2\,R-l^2\,r^4\,R-6\,l^4\,r\,R^2-6\,l^2\,r^3\,R^2+2\,l^4\,R^3-20\,l^2\,r^2\,R^3-11\,l^2\,r\,R^4-r^3\,R^4+l^2\,R^5-8\,r^2\,R^5-16\,r\,R^6\right)\right)\Big/\left(\left(l^2+r^2+4\,r\,R\right)^2\left(r^2+2\,r\,R-R^2\right)^2\right)\Big\}$$

$$\Big\{X37,\ \text{CrosspointOfIncenterAndCentroid},\ X91,\ \text{ISOGONAL CONJUGATE OF } X(47),$$
$$\left(r^2\left(l^2+r^2+4\,r\,R+2\,R^2\right)^2\left(l^6+l^4\,r^2-l^2\,r^4-r^6-22\,l^4\,r\,R+36\,l^2\,r^3\,R-14\,r^5\,R-4\,l^4\,R^2+88\,l^2\,r^2\,R^2-72\,r^4\,R^2+76\,l^2\,r\,R^3-164\,r^3\,R^3+4\,l^2\,R^4-160\,r^2\,R^4-64\,r\,R^5\right)\right)\Big/\left(\left(l^2+r^2+4\,r\,R\right)^2\left(l^2\,r+r^3-l^2\,R+3\,r^2\,R+2\,r\,R^2+2\,R^3\right)^2\right)\Big\}$$

$$\Big\{X37,\ \text{CrosspointOfIncenterAndCentroid},\ X92,\ \text{CEVAPOINT OF INCENTER AND CLAWSON POINT},\ \frac{1}{\left(l^2+r^2+4\,r\,R\right)^2\left(l^2+r^2-4\,R^2\right)^2}$$
$$\left(l^{10}+3\,l^8\,r^2+2\,l^6\,r^4-2\,l^4\,r^6-3\,l^2\,r^8-r^{10}-20\,l^8\,r\,R-8\,l^6\,r^3\,R+24\,l^4\,r^5\,R-8\,l^2\,r^7\,R-20\,r^9\,R-8\,l^8\,R^2-28\,l^6\,r^2\,R^2+184\,l^4\,r^4\,R^2+36\,l^2\,r^6\,R^2-168\,r^8\,R^2+128\,l^6\,r\,R^3+448\,l^4\,r^3\,R^3+64\,l^2\,r^5\,R^3-768\,r^7\,R^3+16\,l^6\,R^4+368\,l^4\,r^2\,R^4-432\,l^2\,r^4\,R^4-2064\,r^6\,R^4-192\,l^4\,r\,R^5-1280\,l^2\,r^3\,R^5-3264\,r^5\,R^5-960\,l^2\,r^2\,R^6-2816\,r^4\,R^6-1024\,r^3\,R^7\right)\Big\}$$

$$\Big\{X37,\ \text{CrosspointOfIncenterAndCentroid},\ X93,\ \text{ISOGONAL CONJUGATE OF } X(49),$$
$$\left(l^{14}+5\,l^{12}\,r^2+9\,l^{10}\,r^4+5\,l^8\,r^6-5\,l^6\,r^8-9\,l^4\,r^{10}-5\,l^2\,r^{12}-r^{14}-20\,l^{12}\,r\,R-40\,l^{10}\,r^3\,R+12\,l^8\,r^5\,R+48\,l^6\,r^7\,R-28\,l^4\,r^9\,R-72\,l^2\,r^{11}\,R-28\,r^{13}\,R-10\,l^{12}\,R^2+16\,l^{10}\,r^2\,R^2-22\,l^8\,r^4\,R^2+160\,l^6\,r^6\,R^2+154\,l^4\,r^8\,R^2-400\,l^2\,r^{10}\,R^2-346\,r^{12}\,R^2+184\,l^{10}\,r\,R^3-32\,l^8\,r^3\,R^3+800\,l^6\,r^5\,R^3+464\,l^4\,r^7\,R^3-984\,l^2\,r^9\,R^3-2480\,r^{11}\,R^3+32\,l^{10}\,R^4-256\,l^8\,r^2\,R^4+2560\,l^6\,r^4\,R^4-1536\,l^4\,r^6\,R^4-416\,l^2\,r^8\,R^4-11392\,r^{10}\,R^4-584\,l^8\,r\,R^5+2632\,l^6\,r^3\,R^5-8472\,l^4\,r^5\,R^5+3544\,l^2\,r^7\,R^5-34944\,r^9\,R^5-34\,l^8\,R^6+984\,l^6\,r^2\,R^6-14572\,l^4\,r^4\,R^6+9720\,l^2\,r^6\,R^6-72226\,r^8\,R^6+776\,l^6\,r\,R^7-10464\,l^4\,r^3\,R^7+13816\,l^2\,r^5\,R^7-98848\,r^7\,R^7+7\,l^6\,R^8-2233\,l^4\,r^2\,R^8+13753\,l^2\,r^4\,R^8-85191\,r^6\,R^8-388\,l^4\,r\,R^9+8432\,l^2\,r^3\,R^9-41556\,r^5\,R^9+4\,l^4\,R^{10}+1612\,l^2\,r^2\,R^{10}-9036\,r^4\,R^{10}+32\,l^2\,r\,R^{11}-416\,r^3\,R^{11}+64\,r^2\,R^{12}\right)\Big/\left(\left(l^2+r^2+4\,r\,R\right)^2\left(l^4+2\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-8\,l^2\,R^2+24\,r^2\,R^2+32\,r\,R^3+13\,R^4\right)^2\right)\Big\}$$

$$\{X37, \text{CrosspointOfIncenterAndCentroid}, X94, \text{ISOGONAL CONJUGATE OF } X(50),$$
$$\big(l^{14} + 5 l^{12} r^2 + 9 l^{10} r^4 + 5 l^8 r^6 - 5 l^6 r^8 - 9 l^4 r^{10} - 5 l^2 r^{12} - r^{14} - 20 l^{12} r R - 40 l^{10} r^3 R + 12 l^8 r^5 R +$$
$$48 l^6 r^7 R - 28 l^4 r^9 R - 72 l^2 r^{11} R - 28 r^{13} R - 12 l^{12} R^2 + 20 l^{10} r^2 R^2 + 12 l^8 r^4 R^2 + 216 l^6 r^6 R^2 +$$
$$188 l^4 r^8 R^2 - 396 l^2 r^{10} R^2 - 348 r^{12} R^2 + 240 l^{10} r R^3 - 80 l^8 r^3 R^3 + 784 l^6 r^5 R^3 + 752 l^4 r^7 R^3 -$$
$$832 l^2 r^9 R^3 - 2528 r^{11} R^3 + 54 l^{10} R^4 - 750 l^8 r^2 R^4 + 2364 l^6 r^4 R^4 - 1116 l^4 r^6 R^4 + 1230 l^2 r^8 R^4 -$$
$$11894 r^{10} R^4 - 1080 l^8 r R^5 + 4032 l^6 r^3 R^5 - 9872 l^4 r^5 R^5 + 12096 l^2 r^7 R^5 - 37944 r^9 R^5 - 108 l^8 R^6 +$$
$$4032 l^6 r^2 R^6 - 19848 l^4 r^4 R^6 + 34336 l^2 r^6 R^6 - 83500 r^8 R^6 + 2160 l^6 r R^7 - 18288 l^4 r^3 R^7 +$$
$$54240 l^2 r^5 R^7 - 126400 r^7 R^7 + 81 l^6 R^8 - 8127 l^4 r^2 R^8 + 50463 l^2 r^4 R^8 - 128721 r^6 R^8 -$$
$$1620 l^4 r R^9 + 25704 l^2 r^3 R^9 - 83916 r^5 R^9 + 5508 l^2 r^2 R^{10} - 31536 r^4 R^{10} - 5184 r^3 R^{11}\big) /$$
$$\big((l^2 + r^2 + 4 r R)^2 (l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 12 l^2 R^2 + 28 r^2 R^2 + 48 r R^3 + 27 R^4)^2\big)\}$$

$$\{X37, \text{CrosspointOfIncenterAndCentroid}, X95, \text{CEVAPOINT OF CENTROID AND CIRCUMCENTER},$$
$$\big(l^{14} + 21 l^{12} r^2 + 57 l^{10} r^4 + 37 l^8 r^6 - 37 l^6 r^8 - 57 l^4 r^{10} - 21 l^2 r^{12} - r^{14} - 20 l^{12} r R - 296 l^{10} r^3 R -$$
$$1076 l^8 r^5 R + 1392 l^6 r^7 R - 220 l^4 r^9 R - 392 l^2 r^{11} R - 28 r^{13} R - 8 l^{12} R^2 - 44 l^{10} r^2 R^2 +$$
$$616 l^8 r^4 R^2 + 1560 l^6 r^6 R^2 + 1304 l^4 r^8 R^2 - 3020 l^2 r^{10} R^2 - 344 r^{12} R^2 + 128 l^{10} r R^3 + 768 l^8 r^3 R^3 +$$
$$1920 l^6 r^5 R^3 + 7808 l^4 r^7 R^3 - 12288 l^2 r^9 R^3 - 2432 r^{11} R^3 + 16 l^{10} R^4 + 80 l^8 r^2 R^4 + 2880 l^6 r^4 R^4 +$$
$$10304 l^4 r^6 R^4 - 27984 l^2 r^8 R^4 - 10896 r^{10} R^4 - 192 l^8 r R^5 + 1152 l^6 r^3 R^5 - 4096 l^4 r^5 R^5 -$$
$$34944 l^2 r^7 R^5 - 32064 r^9 R^5 - 704 l^6 r^2 R^6 - 8320 l^4 r^4 R^6 - 23232 l^2 r^6 R^6 - 61952 r^8 R^6 -$$
$$4608 l^4 r^3 R^7 - 11776 l^2 r^5 R^7 - 75776 r^7 R^7 - 7168 l^2 r^4 R^8 - 53248 r^6 R^8 - 16384 r^5 R^9\big) /$$
$$\big((l^2 + r^2 + 4 r R)^2 (l^4 + 18 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 4 l^2 R^2 + 20 r^2 R^2 + 16 r R^3)^2\big)\}$$

$$\{X37, \text{CrosspointOfIncenterAndCentroid}, X96, \text{ISOGONAL CONJUGATE OF } X(52),$$
$$-\big(\big(l^{14} - 11 l^{12} r^2 - 39 l^{10} r^4 - 27 l^8 r^6 + 27 l^6 r^8 + 39 l^4 r^{10} + 11 l^2 r^{12} - r^{14} - 12 l^{12} r R - 16 l^{10} r^3 R +$$
$$860 l^8 r^5 R - 1056 l^6 r^7 R + 396 l^4 r^9 R + 240 l^2 r^{11} R - 28 r^{13} R - 12 l^{12} R^2 + 100 l^{10} r^2 R^2 +$$
$$1740 l^8 r^4 R^2 - 4680 l^6 r^6 R^2 + 1404 l^4 r^8 R^2 + 2244 l^2 r^{10} R^2 - 348 r^{12} R^2 + 96 l^{10} r R^3 +$$
$$896 l^8 r^3 R^3 - 9376 l^6 r^5 R^3 + 2016 l^4 r^7 R^3 + 11712 l^2 r^9 R^3 - 2528 r^{11} R^3 + 56 l^{10} R^4 -$$
$$120 l^8 r^2 R^4 - 9520 l^6 r^4 R^4 + 1904 l^4 r^6 R^4 + 37240 l^2 r^8 R^4 - 11896 r^{10} R^4 - 224 l^8 r R^5 -$$
$$4992 l^6 r^3 R^5 + 5696 l^4 r^5 R^5 + 73856 l^2 r^7 R^5 - 37984 r^9 R^5 - 128 l^8 R^6 - 1312 l^6 r^2 R^6 +$$
$$11072 l^4 r^4 R^6 + 89696 l^2 r^6 R^6 - 83840 r^8 R^6 + 9856 l^4 r^3 R^7 + 62080 l^2 r^5 R^7 - 128000 r^7 R^7 +$$
$$144 l^6 R^8 + 4112 l^4 r^2 R^8 + 19184 l^2 r^4 R^8 - 133264 r^6 R^8 + 576 l^4 r R^9 - 1792 l^2 r^3 R^9 -$$
$$91840 r^5 R^9 - 64 l^4 R^{10} - 2752 l^2 r^2 R^{10} - 39744 r^4 R^{10} - 512 l^2 r R^{11} - 9728 r^3 R^{11} - 1024 r^2 R^{12}\big) /$$
$$\big((l^2 + r^2 + 4 r R)^2 (l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2 - 4 R^4)^2\big)\big)\}$$

$$\{X37, \text{CrosspointOfIncenterAndCentroid}, X97, \text{ISOGONAL CONJUGATE OF } X(53),$$
$$\big(R\big(32 l^{10} r^3 - 224 l^8 r^5 + 224 l^6 r^7 - 32 l^4 r^9 + 24 l^{10} r^2 R - 528 l^8 r^4 R + 1312 l^6 r^6 R - 432 l^4 r^8 R +$$
$$8 l^2 r^{10} R + 8 l^{10} r R^2 - 744 l^8 r^3 R^2 + 3944 l^6 r^5 R^2 - 2584 l^4 r^7 R^2 + 144 l^2 r^9 R^2 + l^{10} R^3 - 385 l^8 r^2 R^3 +$$
$$5966 l^6 r^4 R^3 - 8574 l^4 r^6 R^3 + 1073 l^2 r^8 R^3 - r^{10} R^3 - 92 l^8 r R^4 + 5200 l^6 r^3 R^4 - 16864 l^4 r^5 R^4 +$$
$$4352 l^2 r^7 R^4 - 20 r^9 R^4 - 8 l^8 R^5 + 1972 l^6 r^2 R^5 - 19448 l^4 r^4 R^5 + 10612 l^2 r^6 R^5 - 168 r^8 R^5 +$$
$$320 l^6 r R^6 - 12768 l^4 r^3 R^6 + 16160 l^2 r^5 R^6 - 768 r^7 R^6 + 16 l^6 R^7 - 3472 l^4 r^2 R^7 + 15056 l^2 r^4 R^7 -$$
$$2064 r^6 R^7 - 320 l^4 r R^8 + 7424 l^2 r^3 R^8 - 3264 r^5 R^8 + 1088 l^2 r^2 R^9 - 2816 r^4 R^9 - 1024 r^3 R^{10}\big)\big) /$$
$$\big((l^2 + r^2 + 4 r R)^2 (l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 7 l^2 R^2 + 23 r^2 R^2 + 28 r R^3 + 12 R^4)^2\big)\}$$

$$\{X37, \text{CrosspointOfIncenterAndCentroid}, X98, \text{TarryPoint},$$
$$-\big(\big(l^{10} + 3 l^8 r^2 + 2 l^6 r^4 - 2 l^4 r^6 - 3 l^2 r^8 - r^{10} - 4 l^8 r R - 56 l^6 r^3 R + 72 l^4 r^5 R - 24 l^2 r^7 R -$$
$$20 r^9 R - 4 l^8 R^2 - 68 l^6 r^2 R^2 + 256 l^4 r^4 R^2 - 36 l^2 r^6 R^2 - 164 r^8 R^2 + 352 l^4 r^3 R^3 +$$
$$96 l^2 r^5 R^3 - 704 r^7 R^3 + 128 l^4 r^2 R^4 + 192 l^2 r^4 R^4 - 1664 r^6 R^4 - 2048 r^5 R^5 - 1024 r^4 R^6\big) /$$
$$\big((l^2 + r^2 + 4 r R)^2 (l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2)\big)\big)\}$$

$$\{X37, \text{CrosspointOfIncenterAndCentroid}, X99, \text{STEINER POINT},$$
$$\big(l^{10} + 3 l^8 r^2 + 2 l^6 r^4 - 2 l^4 r^6 - 3 l^2 r^8 - r^{10} - 12 l^8 r R + 64 l^6 r^3 R -$$
$$48 l^4 r^5 R - 16 l^2 r^7 R - 20 r^9 R - 44 l^6 r^2 R^2 - 88 l^4 r^4 R^2 - 12 l^2 r^6 R^2 - 160 r^8 R^2 -$$
$$288 l^4 r^3 R^3 - 96 l^2 r^5 R^3 - 640 r^7 R^3 - 448 l^2 r^4 R^4 - 1280 r^6 R^4 - 1024 r^5 R^5\big) /$$
$$\big((l^2 + r^2 + 4 r R)^2 (l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2)\big)\}$$

$$\left\{\text{X37, CrosspointOfIncenterAndCentroid, X100, ANTICOMPLEMENT OF FEUERBACH POINT, } \frac{R\left(-l^6-9 l^4 r^2+9 l^2 r^4+r^6+12 l^4 r R+24 l^2 r^3 R+12 r^5 R+60 l^2 r^2 R^2+48 r^4 R^2+64 r^3 R^3\right)}{(2 r-R)\left(l^2+r^2+4 r R\right)^2}\right\}$$

$$\left\{\text{X38, CROSSPOINT OF X(1) AND X(75), X39, BrocardMidpoint, } \frac{1}{\left(l^2+r^2-2 r R\right)^2\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)^2} 4 r^2 R\left(2 l^{10} r+6 l^8 r^3+4 l^6 r^5-4 l^4 r^7-6 l^2 r^9-2 r^{11}+4 l^{10} R-49 l^8 r^2 R-44 l^6 r^4 R+26 l^4 r^6 R-32 l^2 r^8 R-49 r^{10} R-120 l^8 r R^2+580 l^6 r^3 R^2-452 l^4 r^5 R^2+396 l^2 r^7 R^2-500 r^9 R^2+1188 l^6 r^2 R^3-3672 l^4 r^4 R^3+3876 l^2 r^6 R^3-2720 r^8 R^3-5344 l^4 r^3 R^4+11488 l^2 r^5 R^4-8320 r^7 R^4+11328 l^2 r^4 R^5-13568 r^6 R^5-9216 r^5 R^6\right)\right\}$$

$$\left\{\text{X38, CROSSPOINT OF X(1) AND X(75), X40, BEVAN POINT, } -\frac{4 R\left(3 l^4 r-4 l^2 r^3+r^5-l^4 R-23 l^2 r^2 R+14 r^4 R+4 l^2 r R^2+48 r^3 R^2-4 r^2 R^3\right)}{\left(l^2+r^2-2 r R\right)^2}\right\}$$

$$\left\{\text{X38, CROSSPOINT OF X(1) AND X(75), X41, X(6)-CEVA CONJUGATE OF X(31), } -\frac{1}{\left(l^2+r^2-2 r R\right)^2\left(3 l^2 r-r^3+2 l^2 R-8 r^2 R-16 r R^2\right)^2} 4 r^2 R\left(6 l^8 r-44 l^6 r^3+56 l^4 r^5-20 l^2 r^7+2 r^9+5 l^8 R-176 l^6 r^2 R+530 l^4 r^4 R-328 l^2 r^6 R+49 r^8 R-196 l^6 r R^2+1788 l^4 r^3 R^2-2124 l^2 r^5 R^2+500 r^7 R^2-36 l^6 R^3+2328 l^4 r^2 R^3-6692 l^2 r^4 R^3+2720 r^6 R^3+864 l^4 r R^4-9952 l^2 r^3 R^4+8320 r^5 R^4-5184 l^2 r^2 R^5+13568 r^4 R^5+9216 r^3 R^6\right)\right\}$$

$$\left\{\text{X38, CROSSPOINT OF X(1) AND X(75), X42, CROSSPOINT OF INCENTER AND SYMMEDIAN POINT, } \frac{16 r^2 R\left(l^2 r-r^3+l^2 R-8 r^2 R-16 r R^2\right)}{\left(l^2+r^2-2 r R\right)^2}\right\}$$

$$\left\{\text{X38, CROSSPOINT OF X(1) AND X(75), X43, X(6)-CEVA CONJUGATE OF X(1), } \left(4 r^2 R\left(6 l^6 r+10 l^4 r^3+2 l^2 r^5-2 r^7+9 l^6 R-89 l^4 r^2 R-77 l^2 r^4 R+21 r^6 R-216 l^4 r R^2+416 l^2 r^3 R^2+120 r^5 R^2+1296 l^2 r^2 R^3-560 r^4 R^3-2304 r^3 R^4\right)\right) / \left(\left(l^2+r^2-8 r R\right)^2\left(l^2+r^2-2 r R\right)^2\right)\right\}$$

$$\left\{\text{X38, CROSSPOINT OF X(1) AND X(75), X44, X(6)-LINE CONJUGATE OF X(1), } \left(4 r^2 R\left(20 l^6 r-42 l^4 r^3+48 l^2 r^5-18 r^7+16 l^6 R-385 l^4 r^2 R+582 l^2 r^4 R-297 r^6 R-400 l^4 r R^2+2460 l^2 r^3 R^2-1836 r^5 R^2+2628 l^2 r^2 R^3-5040 r^4 R^3-5184 r^3 R^4\right)\right) / \left(\left(l^2-3 r^2-12 r R\right)^2\left(l^2+r^2-2 r R\right)^2\right)\right\}$$

$$\left\{\text{X38, CROSSPOINT OF X(1) AND X(75), X45, X(9)-BETH CONJUGATE OF X(1), } \left(4 r^2 R\left(2 l^6 r-6 l^4 r^3+6 l^2 r^5-18 r^7+4 l^6 R-85 l^4 r^2 R+174 l^2 r^4 R-297 r^6 R-136 l^4 r R^2+1212 l^2 r^3 R^2-1836 r^5 R^2+1476 l^2 r^2 R^3-5040 r^4 R^3-5184 r^3 R^4\right)\right) / \left(\left(l^2+r^2-2 r R\right)^2\left(l^2+3 r^2+12 r R\right)^2\right)\right\}$$

$$\left\{\text{X38, CROSSPOINT OF X(1) AND X(75), X46, X(4)-CEVA CONJUGATE OF X(1), } -\frac{4 r^2 R\left(3 l^4 r-4 l^2 r^3+r^5-2 l^4 R-13 l^2 r^2 R+9 r^4 R+16 l^2 r R^2+12 r^3 R^2-l^2 R^3-37 r^2 R^3+16 r R^4\right)}{(r-R)^2\left(l^2+r^2-2 r R\right)^2}\right\}$$

$$\left\{\text{X38, CROSSPOINT OF X(1) AND X(75), X47, X(110)-BETH CONJUGATE OF X(34), } \frac{16 r^2 R\left(l^2-r^2-4 r R-R^2\right)^2\left(2 l^2 r-6 r^3+l^2 R-19 r^2 R-16 r R^2\right)}{\left(l^2+r^2-2 r R\right)^2\left(l^2-3 r^2-6 r R-2 R^2\right)^2}\right\}$$

$$\Big\{X38,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(75),\ X48,$$

$$\text{CROSSPOINT OF } X(1) \text{ AND } X(63),\ -\frac{1}{\left(l^2+r^2-2\,r\,R\right)^2\left(3\,l^2-r^2-6\,r\,R-8\,R^2\right)^2}$$

$$4\,R\,\big(6\,l^8\,r-44\,l^6\,r^3+56\,l^4\,r^5-20\,l^2\,r^7+2\,r^9+l^8\,R-108\,l^6\,r^2\,R+414\,l^4\,r^4\,R-268\,l^2\,r^6\,R+41\,r^8\,R-$$
$$56\,l^6\,r\,R^2+920\,l^4\,r^3\,R^2-1368\,l^2\,r^5\,R^2+344\,r^7\,R^2-4\,l^6\,R^3+668\,l^4\,r^2\,R^3-3164\,l^2\,r^4\,R^3+$$
$$1508\,r^6\,R^3+112\,l^4\,r\,R^4-3136\,l^2\,r^3\,R^4+3632\,r^5\,R^4-912\,l^2\,r^2\,R^5+4544\,r^4\,R^5+2304\,r^3\,R^6\big)\Big\}$$

$$\Big\{X38,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(75),\ X49,$$

$$\text{CENTER OF SINE-TRIPLE-ANGLE CIRCLE},\ -\frac{1}{\left(l^2+r^2-2\,r\,R\right)^2\left(2\,l^2-2\,r^2-8\,r\,R-7\,R^2\right)^2}$$

$$R\,\big(8\,l^8\,r-96\,l^6\,r^3+208\,l^4\,r^5-160\,l^2\,r^7+40\,r^9+l^8\,R-196\,l^6\,r^2\,R+1310\,l^4\,r^4\,R-$$
$$1716\,l^2\,r^6\,R+617\,r^8\,R-80\,l^6\,r\,R^2+2312\,l^4\,r^3\,R^2-6720\,l^2\,r^5\,R^2+3816\,r^7\,R^2-$$
$$4\,l^6\,R^3+1268\,l^4\,r^2\,R^3-11\,468\,l^2\,r^4\,R^3+12\,028\,r^6\,R^3+172\,l^4\,r\,R^4-8112\,l^2\,r^3\,R^4+$$
$$20\,196\,r^5\,R^4-l^4\,R^5-1734\,l^2\,r^2\,R^5+16\,955\,r^4\,R^5+4\,l^2\,r\,R^6+5556\,r^3\,R^6-4\,r^2\,R^7\big)\Big\}$$

$$\Big\{X38,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(75),\ X50,\ X(74)\text{-CEVA CONJUGATE OF } X(184),$$

$$\big(4\,r^2\,R\,\big(10\,l^{10}\,r-90\,l^8\,r^3+212\,l^6\,r^5-164\,l^4\,r^7+34\,l^2\,r^9-2\,r^{11}+4\,l^{10}\,R-241\,l^8\,r^2\,R+1268\,l^6\,r^4\,R-$$
$$1702\,l^4\,r^6\,R+576\,l^2\,r^8\,R-49\,r^{10}\,R-168\,l^8\,r\,R^2+2560\,l^6\,r^3\,R^2-6728\,l^4\,r^5\,R^2+3984\,l^2\,r^7\,R^2-$$
$$512\,r^9\,R^2-24\,l^8\,R^3+2154\,l^6\,r^2\,R^3-12\,826\,l^4\,r^4\,R^3+14\,350\,l^2\,r^6\,R^3-2966\,r^8\,R^3+678\,l^6\,r\,R^4-$$
$$12\,334\,l^4\,r^3\,R^4+28\,602\,l^2\,r^5\,R^4-10\,354\,r^7\,R^4+36\,l^6\,R^5-5469\,l^4\,r^2\,R^5+31\,158\,l^2\,r^4\,R^5-$$
$$22\,121\,r^6\,R^5-792\,l^4\,r\,R^6+17\,244\,l^2\,r^3\,R^6-27\,948\,r^5\,R^6+3780\,l^2\,r^2\,R^7-18\,864\,r^4\,R^7-5184\,r^3\,R^8\big)\big)\,/$$
$$\big(\left(l^2+r^2-2\,r\,R\right)^2\left(l^4-6\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-3\,l^2\,R^2+19\,r^2\,R^2+12\,r\,R^3\right)^2\big)\Big\}$$

$$\Big\{X38,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(75),\ X51,\ \text{CENTROID OF ORTHIC TRIANGLE},\ -\frac{1}{36\,R^2\left(-l^2-r^2+2\,r\,R\right)^2}$$

$$\big(l^8+20\,l^6\,r^2+38\,l^4\,r^4+20\,l^2\,r^6+r^8-36\,l^6\,r\,R-108\,l^4\,r^3\,R-44\,l^2\,r^5\,R+28\,r^7\,R-4\,l^6\,R^2+216\,l^4\,r^2\,R^2+$$
$$444\,l^2\,r^4\,R^2+160\,r^6\,R^2+128\,l^4\,r\,R^3-448\,l^2\,r^3\,R^3+448\,r^5\,R^3-1280\,l^2\,r^2\,R^4+1792\,r^4\,R^4+4096\,r^3\,R^5\big)\Big\}$$

$$\Big\{X38,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(75),\ X52,\ \text{ORTHOCENTER OF ORTHIC TRIANGLE},$$

$$\frac{1}{4\,R^2\left(-l^2-r^2+2\,r\,R\right)^2}\big(l^8-12\,l^6\,r^2-26\,l^4\,r^4-12\,l^2\,r^6+r^8-4\,l^6\,r\,R+$$
$$52\,l^4\,r^3\,R+52\,l^2\,r^5\,R-4\,r^7\,R-4\,l^6\,R^2-116\,l^2\,r^4\,R^2-56\,r^6\,R^2+16\,l^4\,r\,R^3-$$
$$64\,l^2\,r^3\,R^3-80\,r^5\,R^3+4\,l^4\,R^4+72\,l^2\,r^2\,R^4-28\,r^4\,R^4-16\,l^2\,r\,R^5-400\,r^3\,R^5+16\,r^2\,R^6\big)\Big\}$$

$$\Big\{X38,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(75),\ X53,\ \text{SYMMEDIAN POINT OF ORTHIC TRIANGLE},$$

$$\big(4\,r^2\,\big(2\,l^{10}\,r^2-8\,l^8\,r^4-20\,l^6\,r^6-8\,l^4\,r^8+2\,l^2\,r^{10}+6\,l^{10}\,r\,R-82\,l^8\,r^3\,R+196\,l^6\,r^5\,R-172\,l^4\,r^7\,R+$$
$$54\,l^2\,r^9\,R-2\,r^{11}\,R+4\,l^{10}\,R^2-213\,l^8\,r^2\,R^2+1188\,l^6\,r^4\,R^2-1562\,l^4\,r^6\,R^2+632\,l^2\,r^8\,R^2-$$
$$49\,r^{10}\,R^2-168\,l^8\,r\,R^3+2548\,l^6\,r^3\,R^3-6580\,l^4\,r^5\,R^3+4012\,l^2\,r^7\,R^3-516\,r^9\,R^3-32\,l^8\,R^4+$$
$$2380\,l^6\,r^2\,R^4-13\,536\,l^4\,r^4\,R^4+14\,684\,l^2\,r^6\,R^4-3048\,r^8\,R^4+928\,l^6\,r\,R^5-14\,592\,l^4\,r^3\,R^5+$$
$$31\,360\,l^2\,r^5\,R^5-11\,040\,r^7\,R^5+64\,l^6\,R^6-7664\,l^4\,r^2\,R^6+38\,208\,l^2\,r^4\,R^6-25\,104\,r^6\,R^6-$$
$$1408\,l^4\,r\,R^7+24\,640\,l^2\,r^3\,R^7-35\,008\,r^5\,R^7+6720\,l^2\,r^2\,R^8-27\,392\,r^4\,R^8-9216\,r^3\,R^9\big)\big)\,/$$
$$\big(\left(l^2+r^2-2\,r\,R\right)^2\left(l^4-6\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-4\,l^2\,R^2+20\,r^2\,R^2+16\,r\,R^3\right)^2\big)\Big\}$$

$$\Big\{X38,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(75),\ X54,\ \text{KosnitaPoint},$$

$$-\frac{1}{\left(l^2+r^2-2\,r\,R\right)^2\left(2\,l^2-2\,r^2-8\,r\,R-5\,R^2\right)^2}R\,\big(8\,l^8\,r-96\,l^6\,r^3+208\,l^4\,r^5-160\,l^2\,r^7+40\,r^9-$$
$$188\,l^6\,r^2\,R+1324\,l^4\,r^4\,R-1716\,l^2\,r^6\,R+612\,r^8\,R-52\,l^6\,r\,R^2+2124\,l^4\,r^3\,R^2-6540\,l^2\,r^5\,R^2+$$
$$3700\,r^7\,R^2+l^6\,R^3+883\,l^4\,r^2\,R^3-10\,061\,l^2\,r^4\,R^3+11\,073\,r^6\,R^3+72\,l^4\,r\,R^4-5624\,l^2\,r^3\,R^4+$$
$$16\,704\,r^5\,R^4-4\,l^4\,R^5-848\,l^2\,r^2\,R^5+11\,428\,r^4\,R^5+16\,l^2\,r\,R^6+2800\,r^3\,R^6-16\,r^2\,R^7\big)\Big\}$$

$$\left\{X38,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(75),\ X55,\ \text{INSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ -\frac{1}{(r+R)^2\left(l^2+r^2-2rR\right)^2}r^2R\left(4l^4r-16l^2r^3+12r^5+l^4R-66l^2r^2R+109r^4R-36l^2rR^2+300r^3R^2-4l^2R^3+240r^2R^3+64rR^4\right)\right\}$$

$$\left\{X38,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(75),\ X56,\ \text{EXSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ -\frac{r^2R\left(4l^4r-16l^2r^3+12r^5-3l^4R-10l^2r^2R+41r^4R+28l^2rR^2-20r^3R^2-4l^2R^3-96r^2R^3+64rR^4\right)}{(r-R)^2\left(l^2+r^2-2rR\right)^2}\right\}$$

$$\left\{X38,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(75),\ X57,\ \text{ISOGONAL CONJUGATE OF } X(9),\ -\frac{4r^2R\left(3l^4r-4l^2r^3+r^5-3l^4R-3l^2r^2R+4r^4R+24l^2rR^2-12r^3R^2-4l^2R^3-32r^2R^3+64rR^4\right)}{(r-2R)^2\left(l^2+r^2-2rR\right)^2}\right\}$$

$$\left\{X38,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(75),\ X58,\ \text{ISOGONAL CONJUGATE OF } X(10),\ \frac{16r^2R\left(l^2-r^2-3rR\right)^2\left(2l^2r-6r^3+l^2R-19r^2R-16rR^2\right)}{\left(l^2-3r^2-4rR\right)^2\left(l^2+r^2-2rR\right)^2}\right\}$$

$$\left\{X38,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(75),\ X59,\ \text{ISOGONAL CONJUGATE OF } X(11),\ -\frac{1}{(2r-R)\left(l^2+r^2-2rR\right)^2\left(-l^2+r^2+5rR+4R^2\right)^2}r^2R\left(4l^8-48l^6r^2+104l^4r^4-80l^2r^6+20r^8-82l^6rR+690l^4r^3R-934l^2r^5R+342r^7R-19l^6R^2+975l^4r^2R^2-3721l^2r^4R^2+2261r^6R^2+200l^4rR^3-5224l^2r^3R^3+7088r^5R^3-1504l^2r^2R^4+10064r^4R^4+512l^2rR^5+4160r^3R^5+64l^2R^6-1536r^2R^6-1024rR^7\right)\right\}$$

$$\left\{X38,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(75),\ X60,\ \text{ISOGONAL CONJUGATE OF } X(12),\ -\frac{1}{\left(l^2+r^2-2rR\right)^2\left(2l^2r-2r^3+l^2R-7r^2R-7rR^2\right)^2}r^2R\left(8l^8r-96l^6r^3+208l^4r^5-160l^2r^7+40r^9+4l^8R-260l^6r^2R+1372l^4r^4R-1644l^2r^6R+560r^8R-180l^6rR^2+2956l^4r^3R^2-6540l^2r^5R^2+3252r^7R^2-25l^6R^3+2413l^4r^2R^3-12459l^2r^4R^3+10063r^6R^3+600l^4rR^4-11160l^2r^3R^4+17552r^5R^4-3600l^2r^2R^5+16384r^4R^5+6400r^3R^6\right)\right\}$$

$$\left\{X38,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(75),\ X61,\ \text{ISOGONAL CONJUGATE OF } X(17),\ -\frac{1}{\left(3l^2+2\sqrt{3}\,lr-3r^2-12rR\right)^2\left(l^2+r^2-2rR\right)^2}12r^2R\left(2\sqrt{3}\,l^7-14l^6r-22\sqrt{3}\,l^5r^2+26l^4r^3+30\sqrt{3}\,l^3r^4-18l^2r^5-10\sqrt{3}\,lr^6+6r^7-13l^6R-40\sqrt{3}\,l^5rR+241l^4r^2R+200\sqrt{3}\,l^3r^3R-255l^2r^4R-112\sqrt{3}\,lr^5R+99r^6R+268l^4rR^2+272\sqrt{3}\,l^3r^2R^2-1120l^2r^3R^2-416\sqrt{3}\,lr^4R^2+612r^5R^2-1264l^2r^2R^3-512\sqrt{3}\,lr^3R^3+1680r^4R^3+1728r^3R^4\right)\right\}$$

$$\left\{X38,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(75),\ X62,\ \text{ISOGONAL CONJUGATE OF } X(18),\ -\frac{1}{\left(3l^2-2\sqrt{3}\,lr-3r^2-12rR\right)^2\left(l^2+r^2-2rR\right)^2}12r^2R\left(-2\sqrt{3}\,l^7-14l^6r+22\sqrt{3}\,l^5r^2+26l^4r^3-30\sqrt{3}\,l^3r^4-18l^2r^5+10\sqrt{3}\,lr^6+6r^7-13l^6R+40\sqrt{3}\,l^5rR+241l^4r^2R-200\sqrt{3}\,l^3r^3R-255l^2r^4R+112\sqrt{3}\,lr^5R+99r^6R+268l^4rR^2-272\sqrt{3}\,l^3r^2R^2-1120l^2r^3R^2+416\sqrt{3}\,lr^4R^2+612r^5R^2-1264l^2r^2R^3+512\sqrt{3}\,lr^3R^3+1680r^4R^3+1728r^3R^4\right)\right\}$$

$$\left\{\text{X38, CROSSPOINT OF X(1) AND X(75), X63, ISOGONAL CONJUGATE OF X(19)},\ -\frac{R\left(-l^2+r^2+4\,r\,R\right)^2\left(-2\,l^2\,r+6\,r^3-l^2\,R+19\,r^2\,R+16\,r\,R^2\right)}{(r+R)^2\left(l^2+r^2-2\,r\,R\right)^2}\right\}$$

$$\left\{\text{X38, CROSSPOINT OF X(1) AND X(75), X64, ISOGONAL CONJUGATE OF X(20)},\ -\frac{1}{(l-r-2\,R)^2\,(l+r+2\,R)^2\left(l^2+r^2-2\,r\,R\right)^2}4\,R\right.$$
$$\left(2\,l^8\,r-6\,l^6\,r^3+10\,l^4\,r^5-10\,l^2\,r^7+4\,r^9-3\,l^8\,R-26\,l^6\,r^2\,R+73\,l^4\,r^4\,R-96\,l^2\,r^6\,R+48\,r^8\,R+20\,l^6\,r\,R^2+\right.$$
$$180\,l^4\,r^3\,R^2-384\,l^2\,r^5\,R^2+256\,r^7\,R^2+28\,l^6\,R^3+16\,l^4\,r^2\,R^3-752\,l^2\,r^4\,R^3+768\,r^6\,R^3-192\,l^4\,r\,R^4-$$
$$\left.\left.512\,l^2\,r^3\,R^4+1344\,r^5\,R^4-64\,l^4\,R^5+256\,l^2\,r^2\,R^5+1216\,r^4\,R^5+256\,l^2\,r\,R^6+256\,r^3\,R^6-256\,r^2\,R^7\right)\right\}$$

$$\left\{\text{X38, CROSSPOINT OF X(1) AND X(75), X65, ORTHOCENTER OF THE INTOUCH TRIANGLE},\ -\frac{r^2\left(2\,l^4\,r+4\,l^2\,r^3+2\,r^5-3\,l^4\,R+2\,l^2\,r^2\,R+5\,r^4\,R+20\,l^2\,r\,R^2+28\,r^3\,R^2-4\,l^2\,R^3+32\,r^2\,R^3+64\,r\,R^4\right)}{R\left(-l^2-r^2+2\,r\,R\right)^2}\right\}$$

$$\left\{\text{X38, CROSSPOINT OF X(1) AND X(75), X66, ISOGONAL CONJUGATE OF X(22)},\ \frac{1}{(l-r-2\,R)^2\,(l+r+2\,R)^2\left(l^2-r^2-4\,r\,R\right)^2\left(l^2+r^2-2\,r\,R\right)^2}\right.$$
$$\left(2\,l^{12}\,r^2-6\,l^8\,r^6+6\,l^4\,r^{10}-2\,r^{14}-4\,l^{12}\,r\,R-8\,l^{10}\,r^3\,R-76\,l^8\,r^5\,R+176\,l^6\,r^7\,R-124\,l^4\,r^9\,R+88\,l^2\,r^{11}\,R-\right.$$
$$52\,r^{13}\,R-l^{12}\,R^2+86\,l^{10}\,r^2\,R^2-303\,l^8\,r^4\,R^2+1268\,l^6\,r^6\,R^2-1791\,l^4\,r^8\,R^2+1334\,l^2\,r^{10}\,R^2-593\,r^{12}\,R^2+$$
$$52\,l^{10}\,r\,R^3-1020\,l^8\,r^3\,R^3+4056\,l^6\,r^5\,R^3-8776\,l^4\,r^7\,R^3+8564\,l^2\,r^9\,R^3-3900\,r^{11}\,R^3+4\,l^{10}\,R^4-$$
$$792\,l^8\,r^2\,R^4+7656\,l^6\,r^4\,R^4-22\,912\,l^4\,r^6\,R^4+30\,612\,l^2\,r^8\,R^4-16\,360\,r^{10}\,R^4-128\,l^8\,r\,R^5+6176\,l^6\,r^3\,R^5-$$
$$34\,976\,l^4\,r^5\,R^5+66\,912\,l^2\,r^7\,R^5-45\,664\,r^9\,R^5+1440\,l^6\,r^2\,R^6-27\,664\,l^4\,r^4\,R^6+90\,304\,l^2\,r^6\,R^6-$$
$$\left.\left.85\,520\,r^8\,R^6-7936\,l^4\,r^3\,R^7+68\,928\,l^2\,r^5\,R^7-104\,640\,r^7\,R^7+22\,080\,l^2\,r^4\,R^8-76\,544\,r^6\,R^8-25\,600\,r^5\,R^9\right)\right\}$$

$$\left\{\text{X38, CROSSPOINT OF X(1) AND X(75), X67, ISOGONAL CONJUGATE OF X(23)},\ \frac{1}{\left(l^2-r^2-4\,r\,R\right)^2\left(l^2+r^2-2\,r\,R\right)^2\left(2\,l^2-2\,r^2-8\,r\,R-9\,R^2\right)}\right.$$
$$\left(l^{12}+6\,l^{10}\,r^2+3\,l^8\,r^4-12\,l^6\,r^6-9\,l^4\,r^8+6\,l^2\,r^{10}+5\,r^{12}-32\,l^{10}\,r\,R-24\,l^8\,r^3\,R-\right.$$
$$128\,l^6\,r^5\,R+176\,l^4\,r^7\,R-96\,l^2\,r^9\,R+104\,r^{11}\,R-4\,l^{10}\,R^2+332\,l^8\,r^2\,R^2-448\,l^6\,r^4\,R^2+$$
$$1312\,l^4\,r^6\,R^2-1340\,l^2\,r^8\,R^2+916\,r^{10}\,R^2+112\,l^8\,r\,R^3-1992\,l^6\,r^3\,R^3+4200\,l^4\,r^5\,R^3-$$
$$6136\,l^2\,r^7\,R^3+4456\,r^9\,R^3-1024\,l^6\,r^2\,R^4+8084\,l^4\,r^4\,R^4-14\,856\,l^2\,r^6\,R^4+13\,092\,r^8\,R^4+$$
$$\left.\left.4768\,l^4\,r^3\,R^5-20\,144\,l^2\,r^5\,R^5+23\,728\,r^7\,R^5-11\,536\,l^2\,r^4\,R^6+25\,280\,r^6\,R^6+12\,544\,r^5\,R^7\right)\right\}$$

$$\left\{\text{X38, CROSSPOINT OF X(1) AND X(75), X68, PRASOLOV POINT},\ \frac{1}{(l-r-2\,R)^2\,(l+r+2\,R)^2\left(l^2+r^2-2\,r\,R\right)^2}\right.$$
$$\left(2\,l^8\,r^2+4\,l^6\,r^4-4\,l^2\,r^8-2\,r^{10}-4\,l^8\,r\,R-56\,l^4\,r^5\,R+32\,l^2\,r^7\,R-36\,r^9\,R+\right.$$
$$l^8\,R^2+60\,l^6\,r^2\,R^2-186\,l^4\,r^4\,R^2+316\,l^2\,r^6\,R^2-271\,r^8\,R^2+12\,l^6\,r\,R^3-492\,l^4\,r^3\,R^3+$$
$$1124\,l^2\,r^5\,R^3-1124\,r^7\,R^3-4\,l^6\,R^4-336\,l^4\,r^2\,R^4+2076\,l^2\,r^4\,R^4-2840\,r^6\,R^4+1920\,l^2\,r^3\,R^5-$$
$$\left.\left.4480\,r^5\,R^5+4\,l^4\,R^6+440\,l^2\,r^2\,R^6-4140\,r^4\,R^6-16\,l^2\,r\,R^7-1744\,r^3\,R^7+16\,r^2\,R^8\right)\right\}$$

$$\left\{\text{X38, CROSSPOINT OF X(1) AND X(75), X69, SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},\right.$$
$$\left(l^{10}+5\,l^8\,r^2+6\,l^6\,r^4-2\,l^4\,r^6-7\,l^2\,r^8-3\,r^{10}-24\,l^8\,r\,R-24\,l^6\,r^3\,R-56\,l^4\,r^5\,R+24\,l^2\,r^7\,R-\right.$$
$$48\,r^9\,R+160\,l^6\,r^2\,R^2-144\,l^4\,r^4\,R^2+224\,l^2\,r^6\,R^2-304\,r^8\,R^2-576\,l^4\,r^3\,R^3+768\,l^2\,r^5\,R^3-$$
$$\left.\left.960\,r^7\,R^3+1088\,l^2\,r^4\,R^4-1536\,r^6\,R^4-1024\,r^5\,R^5\right)\Big/\left(\left(l^2-r^2-4\,r\,R\right)^2\left(l^2+r^2-2\,r\,R\right)^2\right)\right\}$$

$$\{X38,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(75),\ X70,\ \text{ISOGONAL CONJUGATE OF } X(26),$$
$$\big(2 l^{12} r^2 - 6 l^8 r^6 + 6 l^4 r^{10} - 2 r^{14} - 4 l^{12} r R - 8 l^{10} r^3 R - 76 l^8 r^5 R + 176 l^6 r^7 R - 124 l^4 r^9 R + 88 l^2 r^{11} R -$$
$$52 r^{13} R + 80 l^{10} r^2 R^2 - 312 l^8 r^4 R^2 + 1280 l^6 r^6 R^2 - 1776 l^4 r^8 R^2 + 1328 l^2 r^{10} R^2 - 600 r^{12} R^2 +$$
$$44 l^{10} r R^3 - 1020 l^8 r^3 R^3 + 4360 l^6 r^5 R^3 - 9128 l^4 r^7 R^3 + 8780 l^2 r^9 R^3 - 4060 r^{11} R^3 - l^{10} R^4 -$$
$$887 l^8 r^2 R^4 + 8694 l^6 r^4 R^4 - 25982 l^4 r^6 R^4 + 33547 l^2 r^8 R^4 - 17931 r^{10} R^4 - 148 l^8 r R^5 +$$
$$8376 l^6 r^3 R^5 - 44784 l^4 r^5 R^5 + 81640 l^2 r^7 R^5 - 54364 r^9 R^5 + 6 l^8 R^6 + 2888 l^6 r^2 R^6 -$$
$$44404 l^4 r^4 R^6 + 129688 l^2 r^6 R^6 - 115506 r^8 R^6 + 164 l^6 r R^7 - 21372 l^4 r^3 R^7 + 130172 l^2 r^5 R^7 -$$
$$171428 r^7 R^7 - 9 l^6 R^8 - 3507 l^4 r^2 R^8 + 74565 l^2 r^4 R^8 - 172369 r^6 R^8 - 40 l^4 r R^9 + 19640 l^2 r^3 R^9 -$$
$$109408 r^5 R^9 + 4 l^4 R^{10} + 1424 l^2 r^2 R^{10} - 38052 r^4 R^{10} - 16 l^2 r R^{11} - 5360 r^3 R^{11} + 16 r^2 R^{12}\big) /$$
$$\big((l^2 + r^2 - 2 r R)^2 (l^4 - 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 6 l^2 R^2 + 22 r^2 R^2 + 24 r R^3 + 7 R^4)^2\big)\}$$

$$\{X38,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(75),\ X71,\ \text{ISOGONAL CONJUGATE OF } X(27),$$
$$-\big(\big(4 R (2 l^8 r - 4 l^4 r^5 + 2 r^9 - 3 l^8 R + 4 l^6 r^2 R - 38 l^4 r^4 R - 4 l^2 r^6 R + 41 r^8 R + 40 l^6 r R^2 - 104 l^4 r^3 R^2 -$$
$$88 l^2 r^5 R^2 + 344 r^7 R^2 - 4 l^6 R^3 - 84 l^4 r^2 R^3 - 476 l^2 r^4 R^3 + 1508 r^6 R^3 + 112 l^4 r R^4 - 1088 l^2 r^3 R^4 +$$
$$3632 r^5 R^4 - 912 l^2 r^2 R^5 + 4544 r^4 R^5 + 2304 r^3 R^6)\big) / \big((l^2 + r^2 - 2 r R)^2 (l^2 + r^2 + 6 r R + 8 R^2)^2\big)\big)\}$$

$$\{X38,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(75),\ X72,\ \text{ISOGONAL CONJUGATE OF } X(28),$$
$$-\frac{1}{R (-l^2 - r^2 + 2 r R)^2} (-l^6 r - l^4 r^3 + l^2 r^5 + r^7 - l^6 R + 16 l^4 r^2 R + 11 l^2 r^4 R -$$
$$6 r^6 R + 24 l^4 r R^2 - 72 l^2 r^3 R^2 - 24 r^5 R^2 - 144 l^2 r^2 R^3 + 92 r^4 R^3 + 256 r^3 R^4)\}$$

$$\{X38,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(75),\ X73,\ \text{CROSSPOINT OF INCENTER AND CIRCUMCENTER},$$
$$\big(16 r^2 R (l^6 r + l^4 r^3 - l^2 r^5 - r^7 - 9 l^4 r^2 R - 10 l^2 r^4 R - r^6 R - 12 l^4 r R^2 + 16 l^2 r^3 R^2 + 20 r^5 R^2 -$$
$$l^4 R^3 + 78 l^2 r^2 R^3 + 27 r^4 R^3 + 52 l^2 r R^4 - 92 r^3 R^4 + 4 l^2 R^5 - 160 r^2 R^5 - 64 r R^6)\big) /$$
$$\big((l^2 + r^2 - 2 r R)^2 (l^2 + r^2 - 2 r R - 4 R^2)^2\big)\}$$

$$\{X38,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(75),\ X74,\ \text{ISOGONAL CONJUGATE OF EULER INFINITY POINT},$$
$$-\big(\big(R (12 l^6 r - 36 l^4 r^3 + 52 l^2 r^5 - 28 r^7 - 9 l^6 R - 131 l^4 r^2 R + 325 l^2 r^4 R - 257 r^6 R + 24 l^4 r R^2 +$$
$$696 l^2 r^3 R^2 - 928 r^5 R^2 + 36 l^4 R^3 + 240 l^2 r^2 R^3 - 1572 r^4 R^3 - 144 l^2 r R^4 - 1008 r^3 R^4 + 144 r^2 R^5)\big) /$$
$$\big((l^2 + r^2 - 2 r R)^2 (2 l^2 - 2 r^2 - 8 r R - 9 R^2)\big)\big)\}$$

$$\{X38,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(75),\ X75,\ \text{ISOTOMIC CONJUGATE OF INCENTER},$$
$$\big(l^{10} + l^8 r^2 - 6 l^6 r^4 - 14 l^4 r^6 - 11 l^2 r^8 - 3 r^{10} - 24 l^8 r R + 8 l^6 r^3 R + 40 l^4 r^5 R - 40 l^2 r^7 R -$$
$$48 r^9 R + 128 l^6 r^2 R^2 + 208 l^4 r^4 R^2 - 224 l^2 r^6 R^2 - 304 r^8 R^2 + 64 l^4 r^3 R^3 - 768 l^2 r^5 R^3 -$$
$$960 r^7 R^3 - 960 l^2 r^4 R^4 - 1536 r^6 R^4 - 1024 r^5 R^5\big) / \big((l^2 + r^2 - 2 r R)^2 (l^2 + r^2 + 4 r R)^2\big)\}$$

$$\{X38,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(75),\ X76,\ \text{3rd BROCARD POINT},$$
$$\frac{1}{(l^2 + r^2 - 2 r R)^2 (l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2)^2}$$
$$\big(l^{14} + 3 l^{12} r^2 - 3 l^{10} r^4 - 25 l^8 r^6 - 45 l^6 r^8 - 39 l^4 r^{10} - 17 l^2 r^{12} - 3 r^{14} - 32 l^{12} r R - 40 l^{10} r^3 R +$$
$$88 l^8 r^5 R + 112 l^6 r^7 R - 112 l^4 r^9 R - 200 l^2 r^{11} R - 72 r^{13} R + 368 l^{10} r^2 R^2 + 224 l^8 r^4 R^2 +$$
$$32 l^6 r^6 R^2 + 128 l^4 r^8 R^2 - 784 l^2 r^{10} R^2 - 736 r^{12} R^2 - 2240 l^8 r^3 R^3 + 512 l^6 r^5 R^3 - 1536 l^4 r^7 R^3 -$$
$$256 l^2 r^9 R^3 - 4160 r^{11} R^3 + 8256 l^6 r^4 R^4 - 7808 l^4 r^6 R^4 + 7744 l^2 r^8 R^4 - 14080 r^{10} R^4 -$$
$$18944 l^4 r^5 R^5 + 25088 l^2 r^7 R^5 - 28672 r^9 R^5 + 25600 l^2 r^6 R^6 - 32768 r^8 R^6 - 16384 r^7 R^7\big)\}$$

$$\{X38,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(75),\ X77,\ \text{ISOGONAL CONJUGATE OF } X(33),$$
$$\big(r^2 R (12 l^6 r - 16 l^4 r^3 + 4 l^2 r^5 - 3 l^6 R - 93 l^4 r^2 R + 51 l^2 r^4 R -$$
$$3 r^6 R - 104 l^4 r R^2 + 312 l^2 r^3 R^2 - 48 r^5 R^2 + 704 l^2 r^2 R^3 - 304 r^4 R^3 + 512 l^2 r R^4 -$$
$$960 r^3 R^4 + 64 l^2 R^5 - 1536 r^2 R^5 - 1024 r R^6)\big) / \big((l^2 + r^2 - 2 r R)^2 (l^2 - r R - 4 R^2)^2\big)\}$$

$$\{X38,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(75),\ X78,\ \text{ISOGONAL CONJUGATE OF } X(34),$$
$$-\frac{1}{(r - R)^2 (l^2 + r^2 - 2 r R)^2} R (-4 l^4 r^3 - 16 l^2 r^5 + 20 r^7 - l^6 R - 7 l^4 r^2 R + 49 l^2 r^4 R +$$
$$71 r^6 R + 24 l^4 r R^2 + 88 l^2 r^3 R^2 - 80 r^5 R^2 - 144 l^2 r^2 R^3 - 256 r^4 R^3 + 256 r^3 R^4)\}$$

$$\{X38,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(75),\ X79,\ \text{ISOGONAL CONJUGATE OF } X(35),$$
$$-\left(\left(4 r^2 \left(2 l^6+6 l^4 r^2+6 l^2 r^4+2 r^6-12 l^4 r R-16 l^2 r^3 R+28 r^5 R-12 l^4 R^2-12 l^2 r^2 R^2+144 r^4 R^2+6 l^2 r R^3+334 r^3 R^3-9 l^2 R^4+339 r^2 R^4+144 r R^5\right)\right)\Big/\left((2 r+3 R)^2 \left(l^2+r^2-2 r R\right)^2\right)\right)\}$$

$$\{X38,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(75),\ X80,\ \text{REFLECTION OF INCENTER IN FEUERBACH POINT},$$
$$-\frac{4 r^2 R \left(2 l^4-8 l^2 r^2+6 r^4-28 l^2 r R+20 r^3 R+l^2 R^2+61 r^2 R^2-16 r R^3\right)}{(2 r-R) \left(l^2+r^2-2 r R\right)^2}\}$$

$$\{X38,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(75),\ X81,\ \text{CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},$$
$$\frac{r^2 R \left(3 l^2-r^2-4 r R\right)^2 \left(2 l^2 r-6 r^3+l^2 R-19 r^2 R-16 r R^2\right)}{\left(l^2+r^2-2 r R\right)^2 \left(l^2-r^2-r R\right)^2}\}$$

$$\{X38,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(75),\ X82,\ \text{ISOGONAL CONJUGATE OF } X(38),$$
$$\left(r^2 R \left(24 l^{10} r-232 l^8 r^3+592 l^6 r^5-688 l^4 r^7+408 l^2 r^9-104 r^{11}+9 l^{10} R-679 l^8 r^2 R+4266 l^6 r^4 R-8062 l^4 r^6 R+6461 l^2 r^8 R-2027 r^{10} R-312 l^8 r R^2+8040 l^6 r^3 R^2-31736 l^4 r^5 R^2+39032 l^2 r^7 R^2-16112 r^9 R^2+3904 l^6 r^2 R^3-48048 l^4 r^4 R^3+110560 l^2 r^6 R^3-66608 r^8 R^3-23488 l^4 r^3 R^4+144640 l^2 r^5 R^4-150464 r^7 R^4+69696 l^2 r^4 R^5-175616 r^6 R^5-82944 r^5 R^6\right)\Big/\left(\left(l^2+r^2-2 r R\right)^2 \left(l^4-4 l^2 r^2+3 r^4-9 l^2 r R+19 r^3 R+28 r^2 R^2\right)^2\right)\}$$

$$\{X38,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(75),\ X83,\ \text{CEVAPOINT OF CENTROID AND SYMMEDIAN POINT},$$
$$\left(l^{14}-21 l^{12} r^2-67 l^{10} r^4-49 l^8 r^6+19 l^6 r^8+17 l^4 r^{10}-17 l^2 r^{12}-11 r^{14}-64 l^{12} r R+952 l^{10} r^3 R-1128 l^8 r^5 R+2608 l^6 r^7 R-2064 l^4 r^9 R+920 l^2 r^{11} R-456 r^{13} R+1616 l^{10} r^2 R^2-15456 l^8 r^4 R^2+29856 l^6 r^6 R^2-35008 l^4 r^8 R^2+21392 l^2 r^{10} R^2-7264 r^{12} R^2-20544 l^8 r^3 R^3+127872 l^6 r^5 R^3-217216 l^4 r^7 R^3+173952 l^2 r^9 R^3-60480 r^{11} R^3+140864 l^6 r^4 R^4-575104 l^4 r^6 R^4+686144 l^2 r^8 R^4-290560 r^{10} R^4-528896 l^4 r^5 R^5+1333760 l^2 r^7 R^5-815104 r^9 R^5+1025024 l^2 r^6 R^6-1245184 r^8 R^6-802816 r^7 R^7\right)\Big/\left(\left(l^2+r^2-2 r R\right)^2 \left(5 l^4-6 l^2 r^2+5 r^4-40 l^2 r R+40 r^3 R+80 r^2 R^2\right)^2\right)\}$$

$$\{X38,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(75),\ X84,\ \text{ISOGONAL CONJUGATE OF } X(40),$$
$$-\frac{1}{r^2 \left(l^2+r^2-2 r R\right)^2} 4 R \left(-l^6 r+2 l^4 r^3-3 l^2 r^5+2 r^7+l^6 R+8 l^4 r^2 R-16 l^2 r^4 R+13 r^6 R-4 l^4 r R^2-28 l^2 r^3 R^2+28 r^5 R^2-4 l^4 R^3-4 l^2 r^2 R^3+28 r^4 R^3+16 l^2 r R^4+16 r^3 R^4-16 r^2 R^5\right)\}$$

$$\{X38,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(75),\ X85,$$
$$\text{ISOTOMIC CONJUGATE OF } X(9),\ \frac{1}{\left(l^2+r^2-2 r R\right)^2 \left(l^2+r^2+8 r R+16 R^2\right)^2}$$
$$\left(l^{10}+l^8 r^2-6 l^6 r^4-14 l^4 r^6-11 l^2 r^8-3 r^{10}-32 l^8 r R-40 l^6 r^3 R-56 l^4 r^5 R-120 l^2 r^7 R-72 r^9 R+144 l^6 r^2 R^2+320 l^4 r^4 R^2-560 l^2 r^6 R^2-736 r^8 R^2-64 l^6 r R^3+1152 l^4 r^3 R^3-1792 l^2 r^5 R^3-4160 r^7 R^3+1792 l^4 r^2 R^4-4032 l^2 r^4 R^4-14080 r^6 R^4-3584 l^2 r^3 R^5-28672 r^5 R^5+1024 l^2 r^2 R^6-32768 r^4 R^6-16384 r^3 R^7\right)\}$$

$$\{X38,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(75),\ X86,\ \text{CEVAPOINT OF INCENTER AND CENTROID},$$
$$\left(l^{10}-15 l^8 r^2-54 l^6 r^4-62 l^4 r^6-27 l^2 r^8-3 r^{10}-40 l^8 r R+376 l^6 r^3 R-328 l^4 r^5 R-280 l^2 r^7 R-48 r^9 R+512 l^6 r^2 R^2-1456 l^4 r^4 R^2-1504 l^2 r^6 R^2-304 r^8 R^2-1856 l^4 r^3 R^3-3584 l^2 r^5 R^3-960 r^7 R^3-3008 l^2 r^4 R^4-1536 r^6 R^4-1024 r^5 R^5\right)\Big/\left(\left(l^2+r^2-2 r R\right)^2 \left(5 l^2+r^2+4 r R\right)^2\right)\}$$

$$\{X38,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(75),\ X87,\ X(2)\text{-CROSS CONJUGATE OF } X(1),$$
$$\left(4 r^2 R \left(6 l^{10} r+22 l^8 r^3+28 l^6 r^5+12 l^4 r^7-2 l^2 r^9-2 r^{11}+9 l^{10} R-231 l^8 r^2 R-310 l^6 r^4 R+34 l^4 r^6 R+29 l^2 r^8 R-75 r^{10} R-336 l^8 r R^2+3280 l^6 r^3 R^2-1584 l^4 r^5 R^2+2032 l^2 r^7 R^2-960 r^9 R^2+4384 l^6 r^2 R^3-19424 l^4 r^4 R^3+15072 l^2 r^6 R^3-6176 r^8 R^3-24064 l^4 r^3 R^4+49920 l^2 r^5 R^4-22272 r^7 R^4+51456 l^2 r^4 R^5-43776 r^6 R^5-36864 r^5 R^6\right)\Big/\left(\left(l^2+r^2-2 r R\right)^2 \left(l^4+2 l^2 r^2+r^4-20 l^2 r R+12 r^3 R+32 r^2 R^2\right)^2\right)\}$$

$$\{X38,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(75),\ X88,\ \text{ISOGONAL CONJUGATE OF } X(44),$$
$$-\left(\left(r^2 R\left(10 l^6 r+6 l^4 r^3-114 l^2 r^5+18 r^7-25 l^6 R-191 l^4 r^2 R+861 l^2 r^4 R-189 r^6 R+760 l^4 r R^2-384 l^2 r^3 R^2-1080 r^5 R^2-7056 l^2 r^2 R^3+5040 r^4 R^3+20736 r^3 R^4\right)\right)\Big/\left(\left(l^2+3 r^2-15 r R\right)^2\left(l^2+r^2-2 r R\right)^2\right)\right)\}$$

$$\{X38,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(75),\ X89,\ \text{ISOGONAL CONJUGATE OF } X(45),$$
$$\left(r^2 R\left(140 l^6 r-924 l^4 r^3+804 l^2 r^5-180 r^7+49 l^6 R-1525 l^4 r^2 R+3651 l^2 r^4 R-1431 r^6 R-784 l^4 r R^2+2712 l^2 r^3 R^2-2808 r^5 R^2+144 r^4 R^3\right)\right)\Big/\left(\left(l^2+r^2-2 r R\right)^2\left(2 l^2-6 r^2+3 r R\right)^2\right)\}$$

$$\{X38,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(75),\ X90,\ X(3)\text{-CROSS CONJUGATE OF } X(1),$$
$$\left(4 r^2 R\left(l^6 r-2 l^4 r^3+3 l^2 r^5-2 r^7-16 l^4 r^2 R+29 l^2 r^4 R-23 r^6 R-5 l^4 r R^2+94 l^2 r^3 R^2-97 r^5 R^2+2 l^4 R^3+42 l^2 r^2 R^3-168 r^4 R^3-30 l^2 r R^4-58 r^3 R^4+l^2 R^5+93 r^2 R^5-16 r R^6\right)\right)\Big/\left(\left(l^2+r^2-2 r R\right)^2\left(r^2+2 r R-R^2\right)^2\right)\}$$

$$\{X38,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(75),\ X91,$$
$$\text{ISOGONAL CONJUGATE OF } X(47),\ \frac{1}{\left(l^2+r^2-2 r R\right)^2\left(l^2 r+r^3-l^2 R+3 r^2 R+2 r R^2+2 R^3\right)^2}$$
$$r^2\left(l^{10}+l^8 r^2-6 l^6 r^4-14 l^4 r^6-11 l^2 r^8-3 r^{10}-24 l^8 r R+8 l^6 r^3 R+40 l^4 r^5 R-40 l^2 r^7 R-48 r^9 R+128 l^6 r^2 R^2+208 l^4 r^4 R^2-224 l^2 r^6 R^2-304 r^8 R^2-8 l^6 r R^3+40 l^4 r^3 R^3-792 l^2 r^5 R^3-968 r^7 R^3-8 l^6 R^4+120 l^4 r^2 R^4-952 l^2 r^4 R^4-1656 r^6 R^4+160 l^4 r R^5-224 l^2 r^3 R^5-1664 r^5 R^5-448 l^2 r^2 R^6-1408 r^4 R^6+32 l^2 r R^7-1120 r^3 R^7+16 l^2 R^8-304 r^2 R^8-256 r R^9\right)\}$$

$$\{X38,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(75),\ X92,$$
$$\text{CEVAPOINT OF INCENTER AND CLAWSON POINT},\ \frac{1}{\left(l^2+r^2-2 r R\right)^2\left(l^2+r^2-4 R^2\right)^2}$$
$$\left(l^{10}+l^8 r^2-6 l^6 r^4-14 l^4 r^6-11 l^2 r^8-3 r^{10}-32 l^8 r R-8 l^6 r^3 R+40 l^4 r^5 R-24 l^2 r^7 R-40 r^9 R-8 l^8 R^2+288 l^6 r^2 R^2+192 l^4 r^4 R^2-256 l^2 r^6 R^2-152 r^8 R^2+224 l^6 r R^3-960 l^4 r^3 R^3-992 l^2 r^5 R^3+64 r^7 R^3+16 l^6 R^4-1680 l^4 r^2 R^4+624 l^2 r^4 R^4+1360 r^6 R^4-384 l^4 r R^5+4352 l^2 r^3 R^5+1408 r^5 R^5+2304 l^2 r^2 R^6-2816 r^4 R^6-4096 r^3 R^7\right)\}$$

$$\{X38,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(75),\ X93,\ \text{ISOGONAL CONJUGATE OF } X(49),$$
$$\left(l^{14}+3 l^{12} r^2-3 l^{10} r^4-25 l^8 r^6-45 l^6 r^8-39 l^4 r^{10}-17 l^2 r^{12}-3 r^{14}-32 l^{12} r R-40 l^{10} r^3 R+88 l^8 r^5 R+112 l^6 r^7 R-112 l^4 r^9 R-200 l^2 r^{11} R-72 r^{13} R-10 l^{12} R^2+344 l^{10} r^2 R^2+190 l^8 r^4 R^2-64 l^6 r^6 R^2-46 l^4 r^8 R^2-920 l^2 r^{10} R^2-774 r^{12} R^2+304 l^{10} r R^3-2208 l^8 r^3 R^3+544 l^6 r^5 R^3-1152 l^4 r^7 R^3-976 l^2 r^9 R^3-4960 r^{11} R^3+32 l^{10} R^4-3132 l^8 r^2 R^4+10560 l^6 r^4 R^4-10072 l^4 r^6 R^4+9216 l^2 r^8 R^4-21260 r^{10} R^4-968 l^8 r R^5+18368 l^6 r^3 R^5-41584 l^4 r^5 R^5+49600 l^2 r^7 R^5-64584 r^9 R^5-34 l^8 R^6+9620 l^6 r^2 R^6-70120 l^4 r^4 R^6+122604 l^2 r^6 R^6-142710 r^8 R^6+1184 l^6 r R^7-49296 l^4 r^3 R^7+175616 l^2 r^5 R^7-229712 r^7 R^7+7 l^6 R^8-12371 l^4 r^2 R^8+139445 l^2 r^4 R^8-263409 r^6 R^8-472 l^4 r R^9+52056 l^2 r^3 R^9-203568 r^5 R^9+4 l^4 R^{10}+5712 l^2 r^2 R^{10}-93764 r^4 R^{10}-16 l^2 r R^{11}-19056 r^3 R^{11}+16 r^2 R^{12}\right)\Big/\left(\left(l^2+r^2-2 r R\right)^2\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-8 l^2 R^2+24 r^2 R^2+32 r R^3+13 R^4\right)^2\right)\}$$

$$\{X38,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(75),\ X94,\ \text{ISOGONAL CONJUGATE OF } X(50),$$
$$\left(l^{14}+3 l^{12} r^2-3 l^{10} r^4-25 l^8 r^6-45 l^6 r^8-39 l^4 r^{10}-17 l^2 r^{12}-3 r^{14}-32 l^{12} r R-40 l^{10} r^3 R+88 l^8 r^5 R+112 l^6 r^7 R-112 l^4 r^9 R-200 l^2 r^{11} R-72 r^{13} R-12 l^{12} R^2+356 l^{10} r^2 R^2+248 l^8 r^4 R^2+8 l^6 r^6 R^2-28 l^4 r^8 R^2-940 l^2 r^{10} R^2-784 r^{12} R^2+384 l^{10} r R^3-2528 l^8 r^3 R^3+128 l^6 r^5 R^3-960 l^4 r^7 R^3-1024 l^2 r^9 R^3-5216 r^{11} R^3+54 l^{10} R^4-4422 l^8 r^2 R^4+13116 l^6 r^4 R^4-9932 l^4 r^6 R^4+10894 l^2 r^8 R^4-24046 r^{10} R^4-1728 l^8 r R^5+29376 l^6 r^3 R^5-56480 l^4 r^5 R^5+66176 l^2 r^7 R^5-81760 r^9 R^5-108 l^8 R^6+19476 l^6 r^2 R^6-125292 l^4 r^4 R^6+198076 l^2 r^6 R^6-210008 r^8 R^6+3456 l^6 r R^7-112896 l^4 r^3 R^7+358656 l^2 r^5 R^7-406528 r^7 R^7+81 l^6 R^8-37125 l^4 r^2 R^8+363123 l^2 r^4 R^8-577335 r^6 R^8-2592 l^4 r R^9+173448 l^2 r^3 R^9-562680 r^5 R^9+25920 l^2 r^2 R^{10}-327024 r^4 R^{10}-82944 r^3 R^{11}\right)\Big/\left(\left(l^2+r^2-2 r R\right)^2\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-12 l^2 R^2+28 r^2 R^2+48 r R^3+27 R^4\right)^2\right)\}$$

$$\{X38,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(75),\ X95,\ \text{CEVAPOINT OF CENTROID AND CIRCUMCENTER},$$
$$\big(l^{14}+19\,l^{12}r^2+13\,l^{10}r^4-121\,l^8r^6-269\,l^6r^8-215\,l^4r^{10}-65\,l^2r^{12}-3\,r^{14}-32\,l^{12}r\,R-488\,l^{10}r^3R-$$
$$680\,l^8r^5R+5104\,l^6r^7R-3952\,l^4r^9R-1160\,l^2r^{11}R-72\,r^{13}R-8\,l^{12}R^2+272\,l^{10}r^2R^2+$$
$$4696\,l^8r^4R^2+6496\,l^6r^6R^2-18136\,l^4r^8R^2-8688\,l^2r^{10}R^2-760\,r^{12}R^2+224\,l^{10}r\,R^3-416\,l^8r^3R^3-$$
$$20928\,l^6r^5R^3-10560\,l^4r^7R^3-33824\,l^2r^9R^3-4640\,r^{11}R^3+16\,l^{10}R^4-1968\,l^8r^2R^4-3168\,l^6r^4R^4+$$
$$47584\,l^4r^6R^4-68656\,l^2r^8R^4-18096\,r^{10}R^4-384\,l^8r\,R^5+9344\,l^6r^3R^5+3712\,l^4r^5R^5-$$
$$56960\,l^2r^7R^5-46848\,r^9R^5+2560\,l^6r^2R^6-29440\,l^4r^4R^6+19456\,l^2r^6R^6-80640\,r^8R^6-$$
$$9216\,l^4r^3R^7+55296\,l^2r^5R^7-89088\,r^7R^7+17408\,l^2r^4R^8-57344\,r^6R^8-16384\,r^5R^9\big)\Big/$$
$$\big((l^2+r^2-2\,r\,R)^2\,(l^4+18\,l^2r^2+r^4-8\,l^2r\,R+8\,r^3R-4\,l^2R^2+20\,r^2R^2+16\,r\,R^3)^2\big)\}$$

$$\{X38,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(75),\ X96,\ \text{ISOGONAL CONJUGATE OF } X(52),$$
$$-\big(\big(l^{14}-13\,l^{12}r^2-19\,l^{10}r^4+71\,l^8r^6+179\,l^6r^8+137\,l^4r^{10}+31\,l^2r^{12}-3\,r^{14}-24\,l^{12}r\,R+152\,l^{10}r^3R+$$
$$1312\,l^8r^5R-3920\,l^6r^7R+3240\,l^4r^9R+56\,l^2r^{11}R-48\,r^{13}R-12\,l^{12}R^2+344\,l^{10}r^2R^2+$$
$$316\,l^8r^4R^2-16816\,l^6r^6R^2+25004\,l^4r^8R^2-3496\,l^2r^{10}R^2-220\,r^{12}R^2+240\,l^{10}r\,R^3-$$
$$2224\,l^8r^3R^3-14368\,l^6r^5R^3+74656\,l^4r^7R^3-29648\,l^2r^9R^3+528\,r^{11}R^3+56\,l^{10}R^4-$$
$$2312\,l^8r^2R^4+4496\,l^6r^4R^4+78928\,l^4r^6R^4-98120\,l^2r^8R^4+9016\,r^{10}R^4-896\,l^8r\,R^5+$$
$$11264\,l^6r^3R^5+13184\,l^4r^5R^5-139520\,l^2r^7R^5+36608\,r^9R^5-128\,l^8R^6+6048\,l^6r^2R^6-$$
$$28832\,l^4r^4R^6-51744\,l^2r^6R^6+67744\,r^8R^6+1536\,l^6r\,R^7-20736\,l^4r^3R^7+40448\,l^2r^5R^7+$$
$$46848\,r^7R^7+144\,l^6R^8-6480\,l^4r^2R^8+37936\,l^2r^4R^8-16624\,r^6R^8-1152\,l^4r\,R^9+11904\,l^2r^3R^9-$$
$$29440\,r^5R^9-64\,l^4R^{10}+2304\,l^2r^2R^{10}-7616\,r^4R^{10}+256\,l^2r\,R^{11}-256\,r^3R^{11}-256\,r^2R^{12}\big)\Big/$$
$$\big((l^2+r^2-2\,r\,R)^2\,(l^4-14\,l^2r^2+r^4-8\,l^2r\,R+8\,r^3R+16\,r^2R^2-4\,R^4)^2\big)\big)\}$$

$$\{X38,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(75),\ X97,\ \text{ISOGONAL CONJUGATE OF } X(53),$$
$$\big(R\,\big(40\,l^{10}r^3-360\,l^8r^5+848\,l^6r^7-656\,l^4r^9+136\,l^2r^{11}-8\,r^{13}+26\,l^{10}r^2R-974\,l^8r^4R+5044\,l^6r^6R-$$
$$6796\,l^4r^8R+2322\,l^2r^{10}R-198\,r^{12}R+8\,l^{10}r\,R^2-1080\,l^8r^3R^2+11488\,l^6r^5R^2-28384\,l^4r^7R^2+$$
$$16792\,l^2r^9R^2-2152\,r^{11}R^2+l^{10}R^3-479\,l^8r^2R^3+14246\,l^6r^4R^3-64394\,l^4r^6R^3+67129\,l^2r^8R^3-$$
$$13495\,r^{10}R^3-104\,l^8r\,R^4+9336\,l^6r^3R^4-88488\,l^4r^5R^4+163272\,l^2r^7R^4-53936\,r^9R^4-8\,l^8R^5+$$
$$2976\,l^6r^2R^5-72224\,l^4r^4R^5+251328\,l^2r^6R^5-143160\,r^8R^5+416\,l^6r\,R^6-33376\,l^4r^3R^6+$$
$$245984\,l^2r^5R^6-254752\,r^7R^6+16\,l^6R^7-7120\,l^4r^2R^7+146736\,l^2r^4R^7-298992\,r^6R^7-$$
$$512\,l^4r\,R^8+46208\,l^2r^3R^8-220544\,r^5R^8+5120\,l^2r^2R^9-91904\,r^4R^9-16384\,r^3R^{10}\big)\big)\Big/$$
$$\big((l^2+r^2-2\,r\,R)^2\,(l^4-6\,l^2r^2+r^4-8\,l^2r\,R+8\,r^3R-7\,l^2R^2+23\,r^2R^2+28\,r\,R^3+12\,R^4)^2\big)\}$$

$$\{X38,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(75),\ X98,\ \text{TarryPoint},$$
$$-\frac{1}{(l^2+r^2-2\,r\,R)^2\,(l^4-14\,l^2r^2+r^4-8\,l^2r\,R+8\,r^3R+16\,r^2R^2)}$$
$$\big(l^{10}+l^8r^2-6\,l^6r^4-14\,l^4r^6-11\,l^2r^8-3\,r^{10}-16\,l^8r\,R-72\,l^6r^3R+264\,l^4r^5R-216\,l^2r^7R-24\,r^9R-$$
$$4\,l^8R^2+72\,l^6r^2R^2+896\,l^4r^4R^2-1448\,l^2r^6R^2+36\,r^8R^2+48\,l^6r\,R^3+176\,l^4r^3R^3-3504\,l^2r^5R^3+$$
$$848\,r^7R^3-208\,l^4r^2R^4-1760\,l^2r^4R^4+2736\,r^6R^4+384\,l^2r^3R^5+2688\,r^5R^5-256\,r^4R^6\big)\}$$

$$\{X38,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(75),\ X99,\ \text{STEINER POINT},$$
$$\big(l^{10}+l^8r^2-6\,l^6r^4-14\,l^4r^6-11\,l^2r^8-3\,r^{10}-24\,l^8r\,R+72\,l^6r^3R-$$
$$216\,l^4r^5R+152\,l^2r^7R-48\,r^9R+160\,l^6r^2R^2-688\,l^4r^4R^2+1152\,l^2r^6R^2-304\,r^8R^2-$$
$$576\,l^4r^3R^3+2176\,l^2r^5R^3-960\,r^7R^3+1088\,l^2r^4R^4-1536\,r^6R^4-1024\,r^5R^5\big)\Big/$$
$$\big((l^2+r^2-2\,r\,R)^2\,(l^4-14\,l^2r^2+r^4-8\,l^2r\,R+8\,r^3R+16\,r^2R^2)\big)\}$$

$$\{X38,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(75),\ X100,\ \text{ANTICOMPLEMENT OF FEUERBACH POINT},$$
$$-\frac{R\,(l^6+7\,l^4r^2-37\,l^2r^4+21\,r^6-24\,l^4r\,R-64\,l^2r^3R+152\,r^5R+144\,l^2r^2R^2+208\,r^4R^2-256\,r^3R^3)}{(2\,r-R)\,(l^2+r^2-2\,r\,R)^2}\}$$

$$\{X39,\ \text{BrocardMidpoint},\ X40,\ \text{BEVAN POINT},$$
$$-\big(\big(4\,R\,\big(l^8r+3\,l^6r^3+3\,l^4r^5+l^2r^7-l^8R-9\,l^6r^2R-16\,l^4r^4R+7\,l^2r^6R-r^8R+16\,l^6r\,R^2+8\,l^4r^3R^2+$$
$$24\,l^2r^5R^2-16\,r^7R^2-96\,l^4r^2R^3+112\,l^2r^4R^3-96\,r^6R^3+256\,l^2r^3R^4-256\,r^5R^4-256\,r^4R^5\big)\big)\Big/$$
$$(l^4+2\,l^2r^2+r^4-8\,l^2r\,R+8\,r^3R+16\,r^2R^2)^2\big)\}$$

$$\{X39, \text{BrocardMidpoint}, X41, X(6)\text{-CEVA CONJUGATE OF } X(31),$$
$$-\left(\left(4 l^4 r^2 R^2 \left(l^8+20 l^6 r^2-106 l^4 r^4+116 l^2 r^6-15 r^8-28 l^6 r R-356 l^4 r^3 R+972 l^2 r^5 R-236 r^7 R-4 l^6 R^2+152 l^4 r^2 R^2+2172 l^2 r^4 R^2-1376 r^6 R^2+96 l^4 r R^3+416 l^2 r^3 R^3-3456 r^5 R^3-576 l^2 r^2 R^4-2816 r^4 R^4+1024 r^3 R^5\right)\right)\Big/\left(\left(3 l^2 r-r^3+2 l^2 R-8 r^2 R-16 r R^2\right)^2\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)^2\right)\right)\}$$

$$\{X39, \text{BrocardMidpoint}, X42, \text{CROSSPOINT OF INCENTER AND SYMMEDIAN POINT},$$
$$-\left(\left(4 r^4 R^2 \left(l^8+20 l^6 r^2+38 l^4 r^4+20 l^2 r^6+r^8-28 l^6 r R+156 l^4 r^3 R+204 l^2 r^5 R+20 r^7 R-4 l^6 R^2-104 l^4 r^2 R^2+636 l^2 r^4 R^2+160 r^6 R^2+96 l^4 r R^3+416 l^2 r^3 R^3+640 r^5 R^3-576 l^2 r^2 R^4+1280 r^4 R^4+1024 r^3 R^5\right)\right)\Big/\left(\left(l^2+r^2-2 r R\right)^2\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)^2\right)\right)\}$$

$$\{X39, \text{BrocardMidpoint}, X43, X(6)\text{-CEVA CONJUGATE OF } X(1),$$
$$\frac{1}{\left(l^2+r^2-8 r R\right)^2\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)^2}$$
$$4 r^2 R \left(l^{10} r+5 l^8 r^3+10 l^6 r^5+10 l^4 r^7+5 l^2 r^9+r^{11}+l^{10} R-8 l^8 r^2 R-26 l^6 r^4 R-4 l^4 r^6 R+33 l^2 r^8 R+20 r^{10} R-24 l^8 r R^2-88 l^6 r^3 R^2-200 l^4 r^5 R^2+24 l^2 r^7 R^2+160 r^9 R^2+144 l^6 r^2 R^3+416 l^4 r^4 R^3-112 l^2 r^6 R^3+640 r^8 R^3-256 l^4 r^3 R^4+1280 r^7 R^4+1024 r^6 R^5\right)\}$$

$$\{X39, \text{BrocardMidpoint}, X44, X(6)\text{-LINE CONJUGATE OF } X(1),$$
$$\left(16 l^4 r^2 R \left(2 l^6 r+6 l^4 r^3+6 l^2 r^5+2 r^7+l^6 R-33 l^4 r^2 R-69 l^2 r^4 R+29 r^6 R-24 l^4 r R^2+96 l^2 r^3 R^2+120 r^5 R^2+144 l^2 r^2 R^3+80 r^4 R^3-256 r^3 R^4\right)\right)\Big/\left(\left(l^2-3 r^2-12 r R\right)^2\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)^2\right)\}$$

$$\{X39, \text{BrocardMidpoint}, X45, X(9)\text{-BETH CONJUGATE OF } X(1),$$
$$\left(16 l^4 r^2 R \left(2 l^6 r+6 l^4 r^3+6 l^2 r^5+2 r^7+4 l^6 R-39 l^4 r^2 R-42 l^2 r^4 R+17 r^6 R-96 l^4 r R^2+312 l^2 r^3 R^2-24 r^5 R^2+576 l^2 r^2 R^3-496 r^4 R^3-1024 r^3 R^4\right)\right)\Big/\left(\left(l^2+3 r^2+12 r R\right)^2\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)^2\right)\}$$

$$\{X39, \text{BrocardMidpoint}, X46, X(4)\text{-CEVA CONJUGATE OF } X(1),$$
$$-\left(\left(4 r^2 R \left(l^8 r+3 l^6 r^3+3 l^4 r^5+l^2 r^7-5 l^6 r^2 R-10 l^4 r^4 R+11 l^2 r^6 R-9 l^6 r R^2+7 l^4 r^3 R^2+33 l^2 r^5 R^2+r^7 R^2-l^6 R^3+62 l^4 r^2 R^3-17 l^2 r^4 R^3+16 r^6 R^3+24 l^4 r R^4-184 l^2 r^3 R^4+96 r^5 R^4-144 l^2 r^2 R^5+256 r^4 R^5+256 r^3 R^6\right)\right)\Big/\left((r-R)^2\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)^2\right)\right)\}$$

$$\{X39, \text{BrocardMidpoint}, X47, X(110)\text{-BETH CONJUGATE OF } X(34),$$
$$\left(4 r^2 R^2 \left(15 l^8 r^2-116 l^6 r^4+106 l^4 r^6-20 l^2 r^8-r^{10}+6 l^8 r R-212 l^6 r^3 R+624 l^4 r^5 R-204 l^2 r^7 R-22 r^9 R-132 l^6 r^2 R^2+1008 l^4 r^4 R^2-660 l^2 r^6 R^2-200 r^8 R^2+4 l^6 r R^3+484 l^4 r^3 R^3-548 l^2 r^5 R^3-964 r^7 R^3+4 l^6 R^4-120 l^4 r^2 R^4+708 l^2 r^4 R^4-2624 r^6 R^4-96 l^4 r R^5+1248 l^2 r^3 R^5-3968 r^5 R^5+576 l^2 r^2 R^6-3072 r^4 R^6-1024 r^3 R^7\right)\right)\Big/\left(\left(l^2-3 r^2-6 r R-2 R^2\right)^2\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)^2\right)\}$$

$$\{X39, \text{BrocardMidpoint}, X48, \text{CROSSPOINT OF } X(1) \text{ AND } X(63),$$
$$-\left(\left(4 l^4 R^2 \left(l^8+20 l^6 r^2-106 l^4 r^4+116 l^2 r^6-15 r^8-28 l^6 r R-196 l^4 r^3 R+652 l^2 r^5 R-204 r^7 R-4 l^6 R^2+136 l^4 r^2 R^2+988 l^2 r^4 R^2-1008 r^6 R^2+96 l^4 r R^3+32 l^2 r^3 R^3-2048 r^5 R^3-576 l^2 r^2 R^4-1024 r^4 R^4+1024 r^3 R^5\right)\right)\Big/\left(\left(3 l^2-r^2-6 r R-8 R^2\right)^2\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)^2\right)\right)\}$$

$$\{X39, \text{BrocardMidpoint}, X49, \text{CENTER OF SINE-TRIPLE-ANGLE CIRCLE},$$
$$-\left(\left(R^2 \left(l^{12}+22 l^{10} r^2-241 l^8 r^4+500 l^6 r^6-241 l^4 r^8+22 l^2 r^{10}+r^{12}-24 l^{10} r R-328 l^8 r^3 R+2256 l^6 r^5 R-2256 l^4 r^7 R+328 l^2 r^9 R+24 r^{11} R-4 l^{10} R^2-12 l^8 r^2 R^2+3272 l^6 r^4 R^2-7784 l^4 r^6 R^2+1980 l^2 r^8 R^2+244 r^{10} R^2+80 l^8 r R^3+1664 l^6 r^3 R^3-12448 l^4 r^5 R^3+6272 l^2 r^7 R^3+1360 r^9 R^3-l^8 R^4-9150 l^4 r^4 R^4+11264 l^2 r^6 R^4+4479 r^8 R^4+16 l^6 r R^5-2576 l^4 r^3 R^5+11280 l^2 r^5 R^5+8688 r^7 R^5-96 l^4 r^2 R^6+5248 l^2 r^4 R^6+9120 r^6 R^6+256 l^2 r^3 R^7+3840 r^5 R^7-256 r^4 R^8\right)\right)\Big/\left(\left(2 l^2-2 r^2-8 r R-7 R^2\right)^2\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)^2\right)\right)\}$$

$$\{X39, \text{BrocardMidpoint}, X50, X(74)\text{-CEVA CONJUGATE OF } X(184),$$
$$\left(16 l^4 r^4 R^2 \left(2 l^2 - 2 r^2 - 8 r R - 3 R^2\right)^2 \left(l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\right)\right) \Big/$$
$$\left(\left(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\right)^2 \left(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 3 l^2 R^2 + 19 r^2 R^2 + 12 r R^3\right)^2\right)\}$$

$$\{X39, \text{BrocardMidpoint}, X51, \text{CENTROID OF ORTHIC TRIANGLE},$$
$$-\frac{1}{36 R^2 \left(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\right)^2}$$
$$\left(l^{12} + 22 l^{10} r^2 + 79 l^8 r^4 + 116 l^6 r^6 + 79 l^4 r^8 + 22 l^2 r^{10} + r^{12} - 24 l^{10} r R - 328 l^8 r^3 R - 304 l^6 r^5 R + 304 l^4 r^7 R + 328 l^2 r^9 R + 24 r^{11} R - 4 l^{10} R^2 + 36 l^8 r^2 R^2 + 1528 l^6 r^4 R^2 - 920 l^4 r^6 R^2 + 1932 l^2 r^8 R^2 + 244 r^{10} R^2 + 80 l^8 r R^3 + 1088 l^6 r^3 R^3 - 4896 l^4 r^5 R^3 + 5696 l^2 r^7 R^3 + 1360 r^9 R^3 - 208 l^6 r^2 R^4 - 6432 l^4 r^4 R^4 + 8752 l^2 r^6 R^4 + 4480 r^8 R^4 - 896 l^4 r^3 R^5 + 6528 l^2 r^5 R^5 + 8704 r^7 R^5 + 1792 l^2 r^4 R^6 + 9216 r^6 R^6 + 4096 r^5 R^7\right)\}$$

$$\{X39, \text{BrocardMidpoint}, X52, \text{ORTHOCENTER OF ORTHIC TRIANGLE},$$
$$\left(\left(l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\right) \left(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 2 l^2 R^2 + 18 r^2 R^2 + 8 r R^3\right)^2\right) \Big/$$
$$\left(4 R^2 \left(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\right)^2\right)\}$$

$$\{X39, \text{BrocardMidpoint}, X53, \text{SYMMEDIAN POINT OF ORTHIC TRIANGLE},$$
$$-\left(\left(16 l^4 r^4 R^2 \left(3 l^8 + 44 l^6 r^2 - 174 l^4 r^4 + 44 l^2 r^6 + 3 r^8 - 48 l^6 r R - 304 l^4 r^3 R + 304 l^2 r^5 R + 48 r^7 R - 8 l^6 R^2 + 24 l^4 r^2 R^2 + 584 l^2 r^4 R^2 + 296 r^6 R^2 + 96 l^4 r R^3 + 192 l^2 r^3 R^3 + 864 r^5 R^3 - 16 l^4 R^4 - 160 l^2 r^2 R^4 + 1136 r^4 R^4 + 128 l^2 r R^5 + 384 r^3 R^5 - 256 r^2 R^6\right)\right) \Big/$$
$$\left(\left(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\right)^2 \left(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 4 l^2 R^2 + 20 r^2 R^2 + 16 r R^3\right)^2\right)\}$$

$$\{X39, \text{BrocardMidpoint}, X54, \text{KosnitaPoint},$$
$$-\left(\left(R^2 \left(24 l^{10} r^2 - 224 l^8 r^4 + 528 l^6 r^6 - 224 l^4 r^8 + 24 l^2 r^{10} - 384 l^8 r^3 R + 2176 l^6 r^5 R - 2176 l^4 r^7 R + 384 l^2 r^9 R + l^{10} R^2 - 189 l^8 r^2 R^2 + 3394 l^6 r^4 R^2 - 7746 l^4 r^6 R^2 + 2493 l^2 r^8 R^2 - r^{10} R^2 - 20 l^8 r R^3 + 2288 l^6 r^3 R^3 - 12\,792 l^4 r^5 R^3 + 8432 l^2 r^7 R^3 - 20 r^9 R^3 - 4 l^8 R^4 + 524 l^6 r^2 R^4 - 10\,176 l^4 r^4 R^4 + 15\,820 l^2 r^6 R^4 - 164 r^8 R^4 + 64 l^6 r R^5 - 3616 l^4 r^3 R^5 + 16\,032 l^2 r^5 R^5 - 704 r^7 R^5 - 384 l^4 r^2 R^6 + 7616 l^2 r^4 R^6 - 1664 r^6 R^6 + 1024 l^2 r^3 R^7 - 2048 r^5 R^7 - 1024 r^4 R^8\right)\right) \Big/$$
$$\left(\left(2 l^2 - 2 r^2 - 8 r R - 5 R^2\right)^2 \left(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\right)^2\right)\}$$

$$\{X39, \text{BrocardMidpoint}, X55, \text{INSIMILICENTER(CIRCUMCIRCLE, INCIRCLE)},$$
$$-\left(\left(r^2 R^2 \left(-3 l^8 + 12 l^6 r^2 - 30 l^4 r^4 + 20 l^2 r^6 + r^8 + 68 l^6 r R - 196 l^4 r^3 R + 204 l^2 r^5 R + 20 r^7 R - 4 l^6 R^2 - 424 l^4 r^2 R^2 + 636 l^2 r^4 R^2 + 160 r^6 R^2 + 96 l^4 r R^3 + 416 l^2 r^3 R^3 + 640 r^5 R^3 - 576 l^2 r^2 R^4 + 1280 r^4 R^4 + 1024 r^3 R^5\right)\right) \Big/ \left((r + R)^2 \left(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\right)^2\right)\}$$

$$\{X39, \text{BrocardMidpoint}, X56, \text{EXSIMILICENTER(CIRCUMCIRCLE, INCIRCLE)},$$
$$\left(r^2 R^2 \left(-l^8 - 20 l^6 r^2 + 30 l^4 r^4 - 12 l^2 r^6 + 3 r^8 + 28 l^6 r R + 68 l^4 r^3 R - 108 l^2 r^5 R + 44 r^7 R + 4 l^6 R^2 - 88 l^4 r^2 R^2 - 252 l^2 r^4 R^2 + 224 r^6 R^2 - 96 l^4 r R^3 + 96 l^2 r^3 R^3 + 384 r^5 R^3 + 576 l^2 r^2 R^4 - 256 r^4 R^4 - 1024 r^3 R^5\right)\right) \Big/$$
$$\left((r - R)^2 \left(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\right)^2\right)\}$$

$$\{X39, \text{BrocardMidpoint}, X57, \text{ISOGONAL CONJUGATE OF } X(9),$$
$$-\left(\left(4 r^2 R \left(l^8 r + 3 l^6 r^3 + 3 l^4 r^5 + l^2 r^7 + l^8 R - l^6 r^2 R - 4 l^4 r^4 R + 15 l^2 r^6 R + r^8 R - 32 l^6 r R^2 + 12 l^4 r^3 R^2 + 48 l^2 r^5 R^2 + 20 r^7 R^2 - 4 l^6 R^3 + 184 l^4 r^2 R^3 - 116 l^2 r^4 R^3 + 160 r^6 R^3 + 96 l^4 r R^4 - 672 l^2 r^3 R^4 + 640 r^5 R^4 - 576 l^2 r^2 R^5 + 1280 r^4 R^5 + 1024 r^3 R^6\right)\right) \Big/$$
$$\left((r - 2 R)^2 \left(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\right)^2\right)\}$$

$$\{X39, \text{BrocardMidpoint}, X58, \text{ISOGONAL CONJUGATE OF } X(10),$$
$$\frac{4 r^4 R^2 \left(3 l^2 - r^2 - 4 r R\right)^2 \left(l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\right)}{\left(l^2 - 3 r^2 - 4 r R\right)^2 \left(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\right)^2}\}$$

$$\{X39, \text{BrocardMidpoint}, X59, \text{ISOGONAL CONJUGATE OF } X(11),$$
$$\Big(r^2 R^2 \big(-12 l^{10} r + 112 l^8 r^3 - 264 l^6 r^5 + 112 l^4 r^7 - 12 l^2 r^9 - 5 l^{10} R + 205 l^8 r^2 R - 1098 l^6 r^4 R + 1266 l^4 r^6 R - 241 l^2 r^8 R + r^{10} R + 220 l^8 r R^2 - 2360 l^6 r^3 R^2 + 5272 l^4 r^5 R^2 - 1976 l^2 r^7 R^2 + 28 r^9 R^2 + 32 l^8 R^3 - 2084 l^6 r^2 R^3 + 10408 l^4 r^4 R^3 - 8452 l^2 r^6 R^3 + 336 r^8 R^3 - 928 l^6 r R^4 + 11040 l^4 r^3 R^4 - 20032 l^2 r^5 R^4 + 2240 r^7 R^4 - 64 l^6 R^5 + 6016 l^4 r^2 R^5 - 26240 l^2 r^4 R^5 + 8960 r^6 R^5 + 1536 l^4 r R^6 - 19456 l^2 r^3 R^6 + 21504 r^5 R^6 - 9216 l^2 r^2 R^7 + 28672 r^4 R^7 + 16384 r^3 R^8\big)\Big) \Big/ \Big((2 r - R) \left(-l^2 + r^2 + 5 r R + 4 R^2\right)^2 \left(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\right)^2\Big)\}$$

$$\{X39, \text{BrocardMidpoint}, X60, \text{ISOGONAL CONJUGATE OF } X(12),$$
$$-\Big(\Big(r^2 R^2 \big(24 l^{10} r^2 - 224 l^8 r^4 + 528 l^6 r^6 - 224 l^4 r^8 + 24 l^2 r^{10} + 2 l^{10} r R - 470 l^8 r^3 R + 2420 l^6 r^5 R - 1932 l^4 r^7 R + 298 l^2 r^9 R + 2 r^{11} R - l^{10} R^2 - 127 l^8 r^2 R^2 + 3374 l^6 r^4 R^2 - 5894 l^4 r^6 R^2 + 1395 l^2 r^8 R^2 + 37 r^{10} R^2 + 20 l^8 r R^3 + 1424 l^6 r^3 R^3 - 8072 l^4 r^5 R^3 + 3088 l^2 r^7 R^3 + 276 r^9 R^3 - 52 l^6 r^2 R^4 - 4488 l^4 r^4 R^4 + 3340 l^2 r^6 R^4 + 1056 r^8 R^4 - 224 l^4 r^3 R^5 + 1632 l^2 r^5 R^5 + 2176 r^7 R^5 + 448 l^2 r^4 R^6 + 2304 r^6 R^6 + 1024 r^5 R^7\big)\Big) \Big/ \Big(\left(2 l^2 r - 2 r^3 + l^2 R - 7 r^2 R - 7 r R^2\right)^2 \left(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\right)^2\Big)\Big)\}$$

$$\{X39, \text{BrocardMidpoint}, X61, \text{ISOGONAL CONJUGATE OF } X(17),$$
$$\frac{12 l^2 r^2 R^2 \left(l^2 - 2\sqrt{3}\, l r - r^2 - 4 r R\right)^3 \left(l^2 + 2\sqrt{3}\, l r - r^2 - 4 r R\right)}{\left(3 l^2 + 2\sqrt{3}\, l r - 3 r^2 - 12 r R\right)^2 \left(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\right)^2}\}$$

$$\{X39, \text{BrocardMidpoint}, X62, \text{ISOGONAL CONJUGATE OF } X(18),$$
$$\frac{12 l^2 r^2 R^2 \left(l^2 - 2\sqrt{3}\, l r - r^2 - 4 r R\right) \left(l^2 + 2\sqrt{3}\, l r - r^2 - 4 r R\right)^3}{\left(3 l^2 - 2\sqrt{3}\, l r - 3 r^2 - 12 r R\right)^2 \left(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\right)^2}\}$$

$$\{X39, \text{BrocardMidpoint}, X63, \text{ISOGONAL CONJUGATE OF } X(19),$$
$$-\frac{1}{(r + R)^2 \left(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\right)^2}$$
$$R \big(-2 l^{10} r - 4 l^8 r^3 + 4 l^4 r^7 + 2 l^2 r^9 - l^{10} R + 41 l^8 r^2 R + 46 l^6 r^4 R - 34 l^4 r^6 R + 27 l^2 r^8 R + r^{10} R + 28 l^8 r R^2 - 256 l^6 r^3 R^2 - 32 l^4 r^5 R^2 + 80 l^2 r^7 R^2 + 20 r^9 R^2 - 244 l^6 r^2 R^3 + 760 l^4 r^4 R^3 - 244 l^2 r^6 R^3 + 160 r^8 R^3 + 928 l^4 r^3 R^4 - 1440 l^2 r^5 R^4 + 640 r^7 R^4 - 1600 l^2 r^4 R^5 + 1280 r^6 R^5 + 1024 r^5 R^6\big)\}$$

$$\{X39, \text{BrocardMidpoint}, X64, \text{ISOGONAL CONJUGATE OF } X(20),$$
$$\Big(4 R^2 \big(3 l^{12} - 6 l^{10} r^2 + 17 l^8 r^4 - 12 l^6 r^6 + 17 l^4 r^8 - 6 l^2 r^{10} + 3 r^{12} - 72 l^{10} r R + 168 l^8 r^3 R - 304 l^6 r^5 R + 304 l^4 r^7 R - 168 l^2 r^9 R + 72 r^{11} R - 28 l^{10} R^2 + 732 l^8 r^2 R^2 - 1816 l^6 r^4 R^2 + 2424 l^4 r^6 R^2 - 1740 l^2 r^8 R^2 + 748 r^{10} R^2 + 560 l^8 r R^3 - 4544 l^6 r^3 R^3 + 9504 l^4 r^5 R^3 - 9152 l^2 r^7 R^3 + 4400 r^9 R^3 + 64 l^8 R^4 - 4400 l^6 r^2 R^4 + 19104 l^4 r^4 R^4 - 27184 l^2 r^6 R^4 + 16064 r^8 R^4 - 1024 l^6 r R^5 + 18304 l^4 r^3 R^5 - 46464 l^2 r^5 R^5 + 37376 r^7 R^5 + 6144 l^4 r^2 R^6 - 42752 l^2 r^4 R^6 + 54272 r^6 R^6 - 16384 l^2 r^3 R^7 + 45056 r^5 R^7 + 16384 r^4 R^8\big)\Big) \Big/ \Big((l - r - 2 R)^2 (l + r + 2 R)^2 \left(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\right)^2\Big)\}$$

$$\{X39, \text{BrocardMidpoint}, X65, \text{ORTHOCENTER OF THE INTOUCH TRIANGLE},$$
$$-\frac{1}{R \left(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\right)^2}$$
$$r^2 \big(2 l^8 r + 8 l^6 r^3 + 12 l^4 r^5 + 8 l^2 r^7 + 2 r^9 + l^8 R - 24 l^6 r^2 R - 14 l^4 r^4 R + 48 l^2 r^6 R + 37 r^8 R - 36 l^6 r R^2 + 140 l^4 r^3 R^2 - 60 l^2 r^5 R^2 + 276 r^7 R^2 - 4 l^6 R^3 + 280 l^4 r^2 R^3 - 772 l^2 r^4 R^3 + 1056 r^6 R^3 + 96 l^4 r R^4 - 1248 l^2 r^3 R^4 + 2176 r^5 R^4 - 576 l^2 r^2 R^5 + 2304 r^4 R^5 + 1024 r^3 R^6\big)\}$$

$$\{X39, \text{BrocardMidpoint}, X66, \text{ISOGONAL CONJUGATE OF } X(22),$$
$$\big(4 l^{16} r^2 + 4 l^{14} r^4 - 12 l^{12} r^6 - 12 l^{10} r^8 + 12 l^8 r^{10} + 12 l^6 r^{12} - 4 l^4 r^{14} - 4 l^2 r^{16} - 112 l^{14} r^3 R + 32 l^{12} r^5 R +$$
$$112 l^{10} r^7 R - 64 l^8 r^9 R + 112 l^6 r^{11} R + 32 l^4 r^{13} R - 112 l^2 r^{15} R - l^{16} R^2 - 56 l^{14} r^2 R^2 + 1412 l^{12} r^4 R^2 -$$
$$1800 l^{10} r^6 R^2 + 1530 l^8 r^8 R^2 - 1352 l^6 r^{10} R^2 + 1668 l^4 r^{12} R^2 - 1400 l^2 r^{14} R^2 - r^{16} R^2 + 32 l^{14} r R^3 +$$
$$1312 l^{12} r^3 R^3 - 11360 l^{10} r^5 R^3 + 19360 l^8 r^7 R^3 - 20896 l^6 r^9 R^3 + 17760 l^4 r^{11} R^3 - 10272 l^2 r^{13} R^3 -$$
$$32 r^{15} R^3 + 4 l^{14} R^4 - 172 l^{12} r^2 R^4 - 13212 l^{10} r^4 R^4 + 64148 l^8 r^6 R^4 - 102868 l^6 r^8 R^4 + 94172 l^4 r^{10} R^4 -$$
$$48788 l^2 r^{12} R^4 - 452 r^{14} R^4 - 112 l^{12} r R^5 - 1824 l^{10} r^3 R^5 + 75888 l^8 r^5 R^5 - 239040 l^6 r^7 R^5 +$$
$$287344 l^4 r^9 R^5 - 155424 l^2 r^{11} R^5 - 3696 r^{13} R^5 + 912 l^{10} r^2 R^6 + 24832 l^8 r^4 R^6 - 265120 l^6 r^6 R^6 +$$
$$515264 l^4 r^8 R^6 - 331120 l^2 r^{10} R^6 - 19264 r^{12} R^6 - 2048 l^8 r^3 R^7 - 114944 l^6 r^5 R^7 + 512768 l^4 r^7 R^7 -$$
$$452352 l^2 r^9 R^7 - 66304 r^{11} R^7 - 5632 l^6 r^4 R^8 + 235520 l^4 r^6 R^8 - 355840 l^2 r^8 R^8 - 150528 r^{10} R^8 +$$
$$24576 l^4 r^5 R^9 - 118784 l^2 r^7 R^9 - 217088 r^9 R^9 + 4096 l^2 r^6 R^{10} - 180224 r^8 R^{10} - 65536 r^7 R^{11}\big) /$$
$$\big((l - r - 2 R)^2 (l + r + 2 R)^2 (l^2 - r^2 - 4 r R)^2 (l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2)^2\big)\}$$

$$\{X39, \text{BrocardMidpoint}, X67, \text{ISOGONAL CONJUGATE OF } X(23),$$
$$\big(l^{16} + 12 l^{14} r^2 + 20 l^{12} r^4 - 12 l^{10} r^6 - 42 l^8 r^8 - 12 l^6 r^{10} + 20 l^4 r^{12} + 12 l^2 r^{14} + r^{16} - 32 l^{14} r R -$$
$$256 l^{12} r^3 R - 64 l^{10} r^5 R + 160 l^8 r^7 R - 160 l^6 r^9 R + 64 l^4 r^{11} R + 256 l^2 r^{13} R + 32 r^{15} R -$$
$$4 l^{14} R^2 + 284 l^{12} r^2 R^2 + 2124 l^{10} r^4 R^2 - 2068 l^8 r^6 R^2 + 1748 l^6 r^8 R^2 - 1740 l^4 r^{10} R^2 +$$
$$2276 l^2 r^{12} R^2 + 452 r^{14} R^2 + 112 l^{12} r R^3 - 416 l^{10} r^3 R^3 - 10992 l^8 r^5 R^3 + 16960 l^6 r^7 R^3 -$$
$$15600 l^4 r^9 R^3 + 10848 l^2 r^{11} R^3 + 3696 r^{13} R^3 - 912 l^{10} r^2 R^4 - 6224 l^8 r^4 R^4 + 43520 l^6 r^6 R^4 -$$
$$54800 l^4 r^8 R^4 + 29552 l^2 r^{10} R^4 + 19264 r^{12} R^4 + 2048 l^8 r^3 R^5 + 37760 l^6 r^5 R^5 - 95616 l^4 r^7 R^5 +$$
$$44800 l^2 r^9 R^5 + 66304 r^{11} R^5 + 5632 l^6 r^4 R^6 - 81152 l^4 r^6 R^6 + 32256 l^2 r^8 R^6 + 150528 r^{10} R^6 -$$
$$24576 l^4 r^5 R^7 + 4096 l^2 r^7 R^7 + 217088 r^9 R^7 - 4096 l^2 r^6 R^8 + 180224 r^8 R^8 + 65536 r^7 R^9\big) /$$
$$\big((l^2 - r^2 - 4 r R)^2 (2 l^2 - 2 r^2 - 8 r R - 9 R^2) (l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2)^2\big)\}$$

$$\{X39, \text{BrocardMidpoint}, X68, \text{PRASOLOV POINT},$$
$$\big(4 l^{12} r^2 + 12 l^{10} r^4 + 8 l^8 r^6 - 8 l^6 r^8 - 12 l^4 r^{10} - 4 l^2 r^{12} - 80 l^{10} r^3 R - 64 l^8 r^5 R + 32 l^6 r^7 R -$$
$$64 l^4 r^9 R - 80 l^2 r^{11} R + l^{12} R^2 - 46 l^{10} r^2 R^2 + 623 l^8 r^4 R^2 - 580 l^6 r^6 R^2 + 367 l^4 r^8 R^2 -$$
$$686 l^2 r^{10} R^2 + r^{12} R^2 - 24 l^{10} r R^3 + 760 l^8 r^3 R^3 - 3184 l^6 r^5 R^3 + 3696 l^4 r^7 R^3 - 3320 l^2 r^9 R^3 +$$
$$24 r^{11} R^3 - 4 l^{10} R^4 + 372 l^8 r^2 R^4 - 5176 l^6 r^4 R^4 + 11544 l^4 r^6 R^4 - 10052 l^2 r^8 R^4 + 244 r^{10} R^4 +$$
$$80 l^8 r R^5 - 2944 l^6 r^3 R^5 + 17248 l^4 r^5 R^5 - 19840 l^2 r^7 R^5 + 1360 r^9 R^5 + 4 l^8 R^6 - 752 l^6 r^2 R^6 +$$
$$11928 l^4 r^4 R^6 - 25328 l^2 r^6 R^6 + 4484 r^8 R^6 - 64 l^6 r R^7 + 3520 l^4 r^3 R^7 - 19392 l^2 r^5 R^7 +$$
$$8768 r^7 R^7 + 384 l^4 r^2 R^8 - 7424 l^2 r^4 R^8 + 9600 r^6 R^8 - 1024 l^2 r^3 R^9 + 5120 r^5 R^9 + 1024 r^4 R^{10}\big) /$$
$$\big((l - r - 2 R)^2 (l + r + 2 R)^2 (l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2)^2\big)\}$$

$$\{X39, \text{BrocardMidpoint}, X69, \text{SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},$$
$$\frac{1}{(l^2 - r^2 - 4 r R)^2 (l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2)^2}$$
$$\big(l^{14} + 9 l^{12} r^2 + 21 l^{10} r^4 + 13 l^8 r^6 - 13 l^6 r^8 - 21 l^4 r^{10} - 9 l^2 r^{12} - r^{14} - 28 l^{12} r R - 152 l^{10} r^3 R -$$
$$100 l^8 r^5 R + 48 l^6 r^7 R - 100 l^4 r^9 R - 152 l^2 r^{11} R - 28 r^{13} R + 228 l^{10} r^2 R^2 + 752 l^8 r^4 R^2 -$$
$$776 l^6 r^6 R^2 + 352 l^4 r^8 R^2 - 988 l^2 r^{10} R^2 - 336 r^{12} R^2 - 512 l^8 r^3 R^3 - 1984 l^6 r^5 R^3 + 2624 l^4 r^7 R^3 -$$
$$3008 l^2 r^9 R^3 - 2240 r^{11} R^3 - 1408 l^6 r^4 R^4 + 5376 l^4 r^6 R^4 - 3968 l^2 r^8 R^4 - 8960 r^{10} R^4 +$$
$$6144 l^4 r^5 R^5 - 1024 l^2 r^7 R^5 - 21504 r^9 R^5 + 1024 l^2 r^6 R^6 - 28672 r^8 R^6 - 16384 r^7 R^7\big)\}$$

$$\{X39, \text{BrocardMidpoint}, X70, \text{ISOGONAL CONJUGATE OF } X(26),$$
$$\big(4 l^{16} r^2 + 4 l^{14} r^4 - 12 l^{12} r^6 - 12 l^{10} r^8 + 12 l^8 r^{10} + 12 l^6 r^{12} - 4 l^4 r^{14} - 4 l^2 r^{16} - 112 l^{14} r^3 R +$$
$$32 l^{12} r^5 R + 112 l^{10} r^7 R - 64 l^8 r^9 R + 112 l^6 r^{11} R + 32 l^4 r^{13} R - 112 l^2 r^{15} R - 68 l^{14} r^2 R^2 +$$
$$1384 l^{12} r^4 R^2 - 1788 l^{10} r^6 R^2 + 1584 l^8 r^8 R^2 - 1340 l^6 r^{10} R^2 + 1640 l^4 r^{12} R^2 - 1412 l^2 r^{14} R^2 +$$
$$1632 l^{12} r^3 R^3 - 11232 l^{10} r^5 R^3 + 19136 l^8 r^7 R^3 - 20672 l^6 r^9 R^3 + 17632 l^4 r^{11} R^3 - 10592 l^2 r^{13} R^3 -$$
$$l^{14} R^4 + 419 l^{12} r^2 R^4 - 16977 l^{10} r^4 R^4 + 67787 l^8 r^6 R^4 - 106059 l^6 r^8 R^4 + 97169 l^4 r^{10} R^4 -$$
$$52579 l^2 r^{12} R^4 + r^{14} R^4 + 28 l^{12} r R^5 - 8408 l^{10} r^3 R^5 + 103332 l^8 r^5 R^5 - 277200 l^6 r^7 R^5 +$$
$$322468 l^4 r^9 R^5 - 181464 l^2 r^{11} R^5 + 28 r^{13} R^5 + 6 l^{12} R^6 - 1452 l^{10} r^2 R^6 + 70218 l^8 r^4 R^6 -$$
$$399208 l^6 r^6 R^6 + 678106 l^4 r^8 R^6 - 444524 l^2 r^{10} R^6 + 342 r^{12} R^6 - 144 l^{10} r R^7 + 20240 l^8 r^3 R^7 -$$
$$311584 l^6 r^5 R^7 + 906400 l^4 r^7 R^7 - 773968 l^2 r^9 R^7 + 2384 r^{11} R^7 - 9 l^{10} R^8 + 2661 l^8 r^2 R^8 -$$
$$122546 l^6 r^4 R^8 + 745714 l^4 r^6 R^8 - 943429 l^2 r^8 R^8 + 10409 r^{10} R^8 + 180 l^8 r R^9 - 22512 l^6 r^3 R^9 +$$
$$352440 l^4 r^5 R^9 - 779248 l^2 r^7 R^9 + 29364 r^9 R^9 + 4 l^8 R^{10} - 1900 l^6 r^2 R^{10} + 86016 l^4 r^4 R^{10} -$$
$$412460 l^2 r^6 R^{10} + 53156 r^8 R^{10} - 64 l^6 r R^{11} + 9504 l^4 r^3 R^{11} - 127392 l^2 r^5 R^{11} + 59072 r^7 R^{11} +$$
$$384 l^4 r^2 R^{12} - 19392 l^2 r^4 R^{12} + 36480 r^6 R^{12} - 1024 l^2 r^3 R^{13} + 10240 r^5 R^{13} + 1024 r^4 R^{14}\big) \Big/$$
$$\big((l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2)^2$$
$$(l^4 - 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 6 l^2 R^2 + 22 r^2 R^2 + 24 r R^3 + 7 R^4)^2\big)\}$$

$$\{X39, \text{BrocardMidpoint}, X71, \text{ISOGONAL CONJUGATE OF } X(27),$$
$$\big(4 l^4 R^2 (3 l^8 - 4 l^6 r^2 - 14 l^4 r^4 - 4 l^2 r^6 + 3 r^8 - 52 l^6 r R -$$
$$12 l^4 r^3 R + 68 l^2 r^5 R + 28 r^7 R + 4 l^6 R^2 + 184 l^4 r^2 R^2 + 164 l^2 r^4 R^2 + 48 r^6 R^2 -$$
$$96 l^4 r R^3 + 224 l^2 r^3 R^3 - 256 r^5 R^3 + 576 l^2 r^2 R^4 - 1024 r^4 R^4 - 1024 r^3 R^5)\big) \Big/$$
$$\big((l^2 + r^2 + 6 r R + 8 R^2)^2 (l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2)^2\big)\}$$

$$\{X39, \text{BrocardMidpoint}, X72, \text{ISOGONAL CONJUGATE OF } X(28),$$
$$-\frac{1}{R (l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2)^2}$$
$$(-l^{10} r - 3 l^8 r^3 - 2 l^6 r^5 + 2 l^4 r^7 + 3 l^2 r^9 + r^{11} - l^{10} R + 20 l^8 r^2 R + 22 l^6 r^4 R + 19 l^2 r^8 R + 20 r^{10} R +$$
$$28 l^8 r R^2 - 144 l^6 r^3 R^2 + 112 l^4 r^5 R^2 - 64 l^2 r^7 R^2 + 164 r^9 R^2 - 244 l^6 r^2 R^3 + 664 l^4 r^4 R^3 - 756 l^2 r^6 R^3 +$$
$$704 r^8 R^3 + 928 l^4 r^3 R^4 - 1952 l^2 r^5 R^4 + 1664 r^7 R^4 - 1600 l^2 r^4 R^5 + 2048 r^6 R^5 + 1024 r^5 R^6)\}$$

$$\{X39, \text{BrocardMidpoint}, X73, \text{CROSSPOINT OF INCENTER AND CIRCUMCENTER},$$
$$\big(4 r^2 R^2 (3 l^8 r^2 - 4 l^6 r^4 - 14 l^4 r^6 - 4 l^2 r^8 + 3 r^{10} - 4 l^8 r R + 28 l^6 r^3 R - 68 l^4 r^5 R - 44 l^2 r^7 R +$$
$$56 r^9 R - 4 l^8 R^2 - 28 l^6 r^2 R^2 - 16 l^4 r^4 R^2 - 156 l^2 r^6 R^2 + 412 r^8 R^2 + 128 l^6 r R^3 -$$
$$176 l^4 r^3 R^3 - 64 l^2 r^5 R^3 + 1456 r^7 R^3 + 16 l^6 R^4 - 736 l^4 r^2 R^4 + 976 l^2 r^4 R^4 + 2176 r^6 R^4 -$$
$$384 l^4 r R^5 + 2688 l^2 r^3 R^5 - 512 r^5 R^5 + 2304 l^2 r^2 R^6 - 5120 r^4 R^6 - 4096 r^3 R^7)\big) \Big/$$
$$\big((l^2 + r^2 - 2 r R - 4 R^2)^2 (l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2)^2\big)\}$$

$$\{X39, \text{BrocardMidpoint}, X74, \text{ISOGONAL CONJUGATE OF EULER INFINITY POINT},$$
$$\big(R^2 (9 l^{10} - 45 l^8 r^2 + 74 l^6 r^4 - 74 l^4 r^6 + 45 l^2 r^8 - 9 r^{10} - 180 l^8 r R + 720 l^6 r^3 R -$$
$$1016 l^4 r^5 R + 720 l^2 r^7 R - 180 r^9 R - 36 l^8 R^2 + 1548 l^6 r^2 R^2 - 4608 l^4 r^4 R^2 +$$
$$4428 l^2 r^6 R^2 - 1476 r^8 R^2 + 576 l^6 r R^3 - 7200 l^4 r^3 R^3 + 12960 l^2 r^5 R^3 - 6336 r^7 R^3 -$$
$$3456 l^4 r^2 R^4 + 17856 l^2 r^4 R^4 - 14976 r^6 R^4 + 9216 l^2 r^3 R^5 - 18432 r^5 R^5 - 9216 r^4 R^6)\big) \Big/$$
$$\big((2 l^2 - 2 r^2 - 8 r R - 9 R^2) (l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2)^2\big)\}$$

$$\{X39, \text{BrocardMidpoint}, X75, \text{ISOTOMIC CONJUGATE OF INCENTER},$$
$$\frac{1}{(l^2 + r^2 + 4 r R)^2 (l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2)^2}$$
$$(l^{14} + 5 l^{12} r^2 + 9 l^{10} r^4 + 5 l^8 r^6 - 5 l^6 r^8 - 9 l^4 r^{10} - 5 l^2 r^{12} - r^{14} - 28 l^{12} r R - 56 l^{10} r^3 R +$$
$$28 l^8 r^5 R + 112 l^6 r^7 R + 28 l^4 r^9 R - 56 l^2 r^{11} R - 28 r^{13} R + 260 l^{10} r^2 R^2 + 32 l^8 r^4 R^2 -$$
$$72 l^6 r^6 R^2 + 464 l^4 r^8 R^2 - 28 l^2 r^{10} R^2 - 336 r^{12} R^2 - 1344 l^8 r^3 R^3 + 1856 l^6 r^5 R^3 - 640 l^4 r^7 R^3 +$$
$$2112 l^2 r^9 R^3 - 2240 r^{11} R^3 + 4736 l^6 r^4 R^4 - 8704 l^4 r^6 R^4 + 11392 l^2 r^8 R^4 - 8960 r^{10} R^4 -$$
$$11264 l^4 r^5 R^5 + 23552 l^2 r^7 R^5 - 21504 r^9 R^5 + 17408 l^2 r^6 R^6 - 28672 r^8 R^6 - 16384 r^7 R^7)\}$$

$$\{X39, \text{BrocardMidpoint}, X76, \text{3rd BROCARD POINT},$$
$$\left(l^{10}+3 l^8 r^2+2 l^6 r^4-2 l^4 r^6-3 l^2 r^8-r^{10}-20 l^8 r R-16 l^6 r^3 R+8 l^4 r^5 R-16 l^2 r^7 R-20 r^9 R+52 l^6 r^2 R^2+264 l^4 r^4 R^2-12 l^2 r^6 R^2-160 r^8 R^2+224 l^4 r^3 R^3-96 l^2 r^5 R^3-640 r^7 R^3-448 l^2 r^4 R^4-1280 r^6 R^4-1024 r^5 R^5\right) \Big/ \left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)^2\}$$

$$\{X39, \text{BrocardMidpoint}, X77, \text{ISOGONAL CONJUGATE OF } X(33),$$
$$-\frac{1}{\left(l^2-r R-4 R^2\right)^2 \left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)^2}$$
$$r^2 R \left(2 l^{10} r+4 l^8 r^3-4 l^4 r^7-2 l^2 r^9-5 l^{10} R-55 l^8 r^2 R+54 l^6 r^4 R-2 l^4 r^6 R-41 l^2 r^8 R+r^{10} R+140 l^8 r R^2-120 l^6 r^3 R^2+296 l^4 r^5 R^2-376 l^2 r^7 R^2+28 r^9 R^2+32 l^8 R^3-804 l^6 r^2 R^3+1768 l^4 r^4 R^3-2052 l^2 r^6 R^3+336 r^8 R^3-928 l^6 r R^4+4640 l^4 r^3 R^4-7232 l^2 r^5 R^4+2240 r^7 R^4-64 l^6 R^5+6016 l^4 r^2 R^5-16000 l^2 r^4 R^5+8960 r^6 R^5+1536 l^4 r R^6-19456 l^2 r^3 R^6+21504 r^5 R^6-9216 l^2 r^2 R^7+28672 r^4 R^7+16384 r^3 R^8\right)\}$$

$$\{X39, \text{BrocardMidpoint}, X78, \text{ISOGONAL CONJUGATE OF } X(34),$$
$$-\frac{1}{(r-R)^2 \left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)^2}$$
$$R \left(-2 l^8 r^3-4 l^6 r^5+4 l^2 r^9+2 r^{11}-l^{10} R-3 l^8 r^2 R+30 l^6 r^4 R-26 l^4 r^6 R+43 l^2 r^8 R+37 r^{10} R+28 l^8 r R^2-32 l^4 r^5 R^2+80 l^2 r^7 R^2+276 r^9 R^2-244 l^6 r^2 R^3+376 l^4 r^4 R^3-500 l^2 r^6 R^3+1056 r^8 R^3+928 l^4 r^3 R^4-1952 l^2 r^5 R^4+2176 r^7 R^4-1600 l^2 r^4 R^5+2304 r^6 R^5+1024 r^5 R^6\right)\}$$

$$\{X39, \text{BrocardMidpoint}, X79, \text{ISOGONAL CONJUGATE OF } X(35),$$
$$-\frac{1}{(2 r+3 R)^2 \left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)^2}$$
$$4 r^2 \left(2 l^{10}+8 l^8 r^2+12 l^6 r^4+8 l^4 r^6+2 l^2 r^8-35 l^8 r R-40 l^6 r^3 R+26 l^4 r^5 R+32 l^2 r^7 R+r^9 R-6 l^8 R^2+200 l^6 r^2 R^2-200 l^4 r^4 R^2+192 l^2 r^6 R^2+22 r^8 R^2+57 l^6 r R^3-677 l^4 r^3 R^3+491 l^2 r^5 R^3+201 r^7 R^3-9 l^6 R^4-162 l^4 r^2 R^4+263 l^2 r^4 R^4+976 r^6 R^4+216 l^4 r R^5-984 l^2 r^3 R^5+2656 r^5 R^5-1296 l^2 r^2 R^6+3840 r^4 R^6+2304 r^3 R^7\right)\}$$

$$\{X39, \text{BrocardMidpoint}, X80, \text{REFLECTION OF INCENTER IN FEUERBACH POINT},$$
$$\left(4 r^2 \left(l^8 r+4 l^6 r^3+6 l^4 r^5+4 l^2 r^7+r^9-14 l^6 r^2 R-10 l^4 r^4 R+22 l^2 r^6 R+18 r^8 R-9 l^6 r R^2+111 l^4 r^3 R^2-39 l^2 r^5 R^2+129 r^7 R^2-l^6 R^3+94 l^4 r^2 R^3-353 l^2 r^4 R^3+464 r^6 R^3+24 l^4 r R^4-440 l^2 r^3 R^4+864 r^5 R^4-144 l^2 r^2 R^5+768 r^4 R^5+256 r^3 R^6\right)\right) \Big/ \left((2 r-R) \left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)^2\right)\}$$

$$\{X39, \text{BrocardMidpoint}, X81, \text{CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},$$
$$-\frac{1}{\left(l^2-r^2-r R\right)^2 \left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)^2}$$
$$r^2 R \left(4 l^{10} r+16 l^8 r^3+24 l^6 r^5+16 l^4 r^7+4 l^2 r^9-l^{10} R-83 l^8 r^2 R+158 l^6 r^4 R+50 l^4 r^6 R+67 l^2 r^8 R+r^{10} R+20 l^8 r R^2+144 l^6 r^3 R^2-8 l^4 r^5 R^2+400 l^2 r^7 R^2+20 r^9 R^2-52 l^6 r^2 R^3-8 l^4 r^4 R^3+1036 l^2 r^6 R^3+160 r^8 R^3-224 l^4 r^3 R^4+1120 l^2 r^5 R^4+640 r^7 R^4+448 l^2 r^4 R^5+1280 r^6 R^5+1024 r^5 R^6\right)\}$$

$$\{X39, \text{BrocardMidpoint}, X82, \text{ISOGONAL CONJUGATE OF } X(38),$$
$$-\Big(\Big(r^2 R \big(6 l^{14} r+22 l^{12} r^3+22 l^{10} r^5-10 l^8 r^7-30 l^6 r^9-14 l^4 r^{11}+2 l^2 r^{13}+2 r^{15}-l^{14} R-221 l^{12} r^2 R+335 l^{10} r^4 R-1397 l^8 r^6 R+1397 l^6 r^8 R-751 l^4 r^{10} R+61 l^2 r^{12} R+65 r^{14} R+36 l^{12} r R^2+2704 l^{10} r^3 R^2-7884 l^8 r^5 R^2+13888 l^6 r^7 R^2-8692 l^4 r^9 R^2+560 l^2 r^{11} R^2+924 r^{13} R^2-516 l^{10} r^2 R^3-16128 l^8 r^4 R^3+45032 l^6 r^6 R^3-40944 l^4 r^8 R^3+1148 l^2 r^{10} R^3+7504 r^{12} R^3+4288 l^8 r^3 R^4+46272 l^6 r^5 R^4-79872 l^4 r^7 R^4-11072 l^2 r^9 R^4+38080 r^{11} R^4-22656 l^6 r^4 R^5-23552 l^4 r^6 R^5-75904 l^2 r^8 R^5+123648 r^{10} R^5+76800 l^4 r^5 R^6-181248 l^2 r^7 R^6+250880 r^9 R^6-156672 l^2 r^6 R^7+290816 r^8 R^7+147456 r^7 R^8\big)\Big) \Big/ \left(\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)^2 \left(l^4-4 l^2 r^2+3 r^4-9 l^2 r R+19 r^3 R+28 r^2 R^2\right)^2\right)\Big)\}$$

$$\{X39, \text{BrocardMidpoint}, X83, \text{CEVAPOINT OF CENTROID AND SYMMEDIAN POINT},$$
$$\Big(\big(l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\big)$$
$$\big(l^{14} + 5 l^{12} r^2 + 9 l^{10} r^4 + 5 l^8 r^6 - 5 l^6 r^8 - 9 l^4 r^{10} - 5 l^2 r^{12} - r^{14} - 28 l^{12} r R - 72 l^{10} r^3 R -$$
$$36 l^8 r^5 R + 16 l^6 r^7 R - 36 l^4 r^9 R - 72 l^2 r^{11} R - 28 r^{13} R + 228 l^{10} r^2 R^2 + 448 l^8 r^4 R^2 -$$
$$488 l^6 r^6 R^2 + 304 l^4 r^8 R^2 - 348 l^2 r^{10} R^2 - 336 r^{12} R^2 - 512 l^8 r^3 R^3 - 2112 l^6 r^5 R^3 + 2240 l^4 r^7 R^3 -$$
$$448 l^2 r^9 R^3 - 2240 r^{11} R^3 - 1408 l^6 r^4 R^4 + 5632 l^4 r^6 R^4 + 1152 l^2 r^8 R^4 - 8960 r^{10} R^4 +$$
$$6144 l^4 r^5 R^5 + 3072 l^2 r^7 R^5 - 21504 r^9 R^5 + 1024 l^2 r^6 R^6 - 28672 r^8 R^6 - 16384 r^7 R^7\big)\Big) \Big/$$
$$\Big(\big(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\big)^2 \big(5 l^4 - 6 l^2 r^2 + 5 r^4 - 40 l^2 r R + 40 r^3 R + 80 r^2 R^2\big)^2\Big)\}$$

$$\{X39, \text{BrocardMidpoint}, X84, \text{ISOGONAL CONJUGATE OF } X(40),$$
$$\frac{1}{r^2 \big(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\big)^2}$$
$$4 R \big(l^{10} r + 3 l^8 r^3 + 3 l^6 r^5 + l^4 r^7 - l^{10} R - 22 l^8 r^2 R - 23 l^6 r^4 R + 16 l^4 r^6 R +$$
$$2 l^2 r^8 R + 16 l^8 r R^2 + 144 l^6 r^3 R^2 - 40 l^4 r^5 R^2 + 40 l^2 r^7 R^2 + 4 l^8 R^3 - 80 l^6 r^2 R^3 -$$
$$328 l^4 r^4 R^3 + 224 l^2 r^6 R^3 + 4 r^8 R^3 - 64 l^6 r R^4 + 192 l^4 r^3 R^4 + 320 l^2 r^5 R^4 + 64 r^7 R^4 +$$
$$384 l^4 r^2 R^5 - 512 l^2 r^4 R^5 + 384 r^6 R^5 - 1024 l^2 r^3 R^6 + 1024 r^5 R^6 + 1024 r^4 R^7\big)\}$$

$$\{X39, \text{BrocardMidpoint}, X85, \text{ISOTOMIC CONJUGATE OF } X(9),$$
$$\big(l^{14} + 5 l^{12} r^2 + 9 l^{10} r^4 + 5 l^8 r^6 - 5 l^6 r^8 - 9 l^4 r^{10} - 5 l^2 r^{12} - r^{14} - 36 l^{12} r R - 104 l^{10} r^3 R -$$
$$92 l^8 r^5 R - 48 l^6 r^7 R - 92 l^4 r^9 R - 104 l^2 r^{11} R - 36 r^{13} R + 404 l^{10} r^2 R^2 + 432 l^8 r^4 R^2 +$$
$$24 l^6 r^6 R^2 - 208 l^4 r^8 R^2 - 780 l^2 r^{10} R^2 - 576 r^{12} R^2 + 64 l^{10} r R^3 - 2080 l^8 r^3 R^3 + 2144 l^6 r^5 R^3 -$$
$$224 l^4 r^7 R^3 - 1696 l^2 r^9 R^3 - 5376 r^{11} R^3 - 1664 l^8 r^2 R^4 + 10176 l^6 r^4 R^4 - 7424 l^4 r^6 R^4 +$$
$$9920 l^2 r^8 R^4 - 32256 r^{10} R^4 + 15360 l^6 r^3 R^5 - 40960 l^4 r^5 R^5 + 76800 l^2 r^7 R^5 - 129024 r^9 R^5 +$$
$$1024 l^6 r^2 R^6 - 69632 l^4 r^4 R^6 + 216064 l^2 r^6 R^6 - 344064 r^8 R^6 - 24576 l^4 r^3 R^7 +$$
$$286720 l^2 r^5 R^7 - 589824 r^7 R^7 + 147456 l^2 r^4 R^8 - 589824 r^6 R^8 - 262144 r^5 R^9\big) \Big/$$
$$\Big(\big(l^2 + r^2 + 8 r R + 16 R^2\big)^2 \big(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\big)^2\Big)\}$$

$$\{X39, \text{BrocardMidpoint}, X86, \text{CEVAPOINT OF INCENTER AND CENTROID},$$
$$\frac{1}{\big(5 l^2 + r^2 + 4 r R\big)^2 \big(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\big)^2}$$
$$\big(l^{14} - 3 l^{12} r^2 - 31 l^{10} r^4 - 75 l^8 r^6 - 85 l^6 r^8 - 49 l^4 r^{10} - 13 l^2 r^{12} - r^{14} - 12 l^{12} r R + 72 l^{10} r^3 R +$$
$$124 l^8 r^5 R - 208 l^6 r^7 R - 468 l^4 r^9 R - 248 l^2 r^{11} R - 28 r^{13} R - 92 l^{10} r^2 R^2 + 704 l^8 r^4 R^2 -$$
$$104 l^6 r^6 R^2 - 1488 l^4 r^8 R^2 - 1948 l^2 r^{10} R^2 - 336 r^{12} R^2 + 320 l^8 r^3 R^3 + 1088 l^6 r^5 R^3 - 2048 l^4 r^7 R^3 -$$
$$8128 l^2 r^9 R^3 - 2240 r^{11} R^3 + 2176 l^6 r^4 R^4 - 2048 l^4 r^6 R^4 - 19328 l^2 r^8 R^4 - 8960 r^{10} R^4 -$$
$$1024 l^4 r^5 R^5 - 25600 l^2 r^7 R^5 - 21504 r^9 R^5 - 15360 l^2 r^6 R^6 - 28672 r^8 R^6 - 16384 r^7 R^7\big)\}$$

$$\{X39, \text{BrocardMidpoint}, X87, X(2)\text{-CROSS CONJUGATE OF } X(1),$$
$$\Big(4 r^2 R \big(l^{14} r + 7 l^{12} r^3 + 21 l^{10} r^5 + 35 l^8 r^7 + 35 l^6 r^9 + 21 l^4 r^{11} + 7 l^2 r^{13} + r^{15} + l^{14} R - 30 l^{12} r^2 R -$$
$$153 l^{10} r^4 R - 264 l^8 r^6 R - 161 l^6 r^8 R + 42 l^4 r^{10} R + 89 l^2 r^{12} R + 28 r^{14} R - 16 l^{12} r R^2 +$$
$$208 l^{10} r^3 R^2 + 944 l^8 r^5 R^2 + 736 l^6 r^7 R^2 - 112 l^4 r^9 R^2 + 208 l^2 r^{11} R^2 + 336 r^{13} R^2 - 32 l^{10} r^2 R^3 +$$
$$1728 l^8 r^4 R^3 - 6976 l^6 r^6 R^3 + 3456 l^4 r^8 R^3 - 1952 l^2 r^{10} R^3 + 2240 r^{12} R^3 + 512 l^8 r^3 R^4 -$$
$$9728 l^6 r^5 R^4 + 16640 l^4 r^7 R^4 - 13312 l^2 r^9 R^4 + 8960 r^{11} R^4 + 256 l^6 r^4 R^5 + 13824 l^4 r^6 R^5 -$$
$$30464 l^2 r^8 R^5 + 21504 r^{10} R^5 - 4096 l^4 r^5 R^6 - 24576 l^2 r^7 R^6 + 28672 r^9 R^6 + 16384 r^8 R^7\big)\Big) \Big/$$
$$\Big(\big(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\big)^2 \big(l^4 + 2 l^2 r^2 + r^4 - 20 l^2 r R + 12 r^3 R + 32 r^2 R^2\big)^2\Big)\}$$

$$\{X39, \text{BrocardMidpoint}, X88, \text{ISOGONAL CONJUGATE OF } X(44),$$
$$-\Big(\big(r^2 R \big(4 l^{10} r + 48 l^8 r^3 + 120 l^6 r^5 + 112 l^4 r^7 + 36 l^2 r^9 - l^{10} R - 51 l^8 r^2 R - 498 l^6 r^4 R -$$
$$254 l^4 r^6 R + 531 l^2 r^8 R + 81 r^{10} R - 12 l^8 r R^2 - 816 l^6 r^3 R^2 + 2328 l^4 r^5 R^2 + 144 l^2 r^7 R^2 +$$
$$1620 r^9 R^2 + 396 l^6 r^2 R^3 + 9592 l^4 r^4 R^3 - 17460 l^2 r^6 R^3 + 12960 r^8 R^3 + 2848 l^4 r^3 R^4 -$$
$$56736 l^2 r^5 R^4 + 51840 r^7 R^4 - 37440 l^2 r^4 R^5 + 103680 r^6 R^5 + 82944 r^5 R^6\big)\big) \Big/$$
$$\Big(\big(l^2 + 3 r^2 - 15 r R\big)^2 \big(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\big)^2\Big)\Big)\}$$

$$\{X39, \text{BrocardMidpoint}, X89, \text{ISOGONAL CONJUGATE OF } X(45),$$
$$-\Big(\Big(r^2 R \big(16 l^{10} r + 192 l^8 r^3 + 480 l^6 r^5 + 448 l^4 r^7 + 144 l^2 r^9 - l^{10} R - 291 l^8 r^2 R + 1518 l^6 r^4 R - 110 l^4 r^6 R + 2259 l^2 r^8 R + 81 r^{10} R - 12 l^8 r R^2 - 1968 l^6 r^3 R^2 - 2280 l^4 r^5 R^2 + 10512 l^2 r^7 R^2 + 1620 r^9 R^2 + 396 l^6 r^2 R^3 + 10360 l^4 r^4 R^3 + 10188 l^2 r^6 R^3 + 12960 r^8 R^3 + 2848 l^4 r^3 R^4 - 29088 l^2 r^5 R^4 + 51840 r^7 R^4 - 37440 l^2 r^4 R^5 + 103680 r^6 R^5 + 82944 r^5 R^6\big)\Big) \Big/ \Big(\big(2 l^2 - 6 r^2 + 3 r R\big)^2 \big(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\big)^2\Big)\Big)\}$$

$$\{X39, \text{BrocardMidpoint}, X90, X(3)\text{-CROSS CONJUGATE OF } X(1),$$
$$\frac{1}{\big(r^2 + 2 r R - R^2\big)^2 \big(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\big)^2}$$
$$4 r^2 R \big(l^{10} r + 3 l^8 r^3 + 3 l^6 r^5 + l^4 r^7 - 20 l^8 r^2 R - 23 l^6 r^4 R + 14 l^4 r^6 R + l^2 r^8 R - 4 l^8 r R^2 + 116 l^6 r^3 R^2 - 4 l^4 r^5 R^2 + 20 l^2 r^7 R^2 + 54 l^6 r^2 R^3 - 244 l^4 r^4 R^3 + 134 l^2 r^6 R^3 + 7 l^6 r R^4 - 291 l^4 r^3 R^4 + 373 l^2 r^5 R^4 - r^7 R^4 + l^6 R^5 - 46 l^4 r^2 R^5 + 401 l^2 r^4 R^5 - 16 r^6 R^5 - 24 l^4 r R^6 + 152 l^2 r^3 R^6 - 96 r^5 R^6 + 144 l^2 r^2 R^7 - 256 r^4 R^7 - 256 r^3 R^8\big)\}$$

$$\{X39, \text{BrocardMidpoint}, X91, \text{ISOGONAL CONJUGATE OF } X(47),$$
$$\Big(r^2 \big(l^{14} + 5 l^{12} r^2 + 9 l^{10} r^4 + 5 l^8 r^6 - 5 l^6 r^8 - 9 l^4 r^{10} - 5 l^2 r^{12} - r^{14} - 30 l^{12} r R - 68 l^{10} r^3 R - 2 l^8 r^5 R + 72 l^6 r^7 R - 2 l^4 r^9 R - 68 l^2 r^{11} R - 30 r^{13} R - 8 l^{12} R^2 + 288 l^{10} r^2 R^2 + 164 l^8 r^4 R^2 + 16 l^6 r^6 R^2 + 336 l^4 r^8 R^2 - 208 l^2 r^{10} R^2 - 396 r^{12} R^2 + 236 l^{10} r R^3 - 1660 l^8 r^3 R^3 + 1400 l^6 r^5 R^3 - 440 l^4 r^7 R^3 + 1436 l^2 r^9 R^3 - 3020 r^{11} R^3 + 24 l^{10} R^4 - 2324 l^8 r^2 R^4 + 8144 l^6 r^4 R^4 - 11048 l^4 r^6 R^4 + 13944 l^2 r^8 R^4 - 14692 r^{10} R^4 - 680 l^8 r R^5 + 12768 l^6 r^3 R^5 - 34544 l^4 r^5 R^5 + 50912 l^2 r^7 R^5 - 47528 r^9 R^5 - 32 l^8 R^6 + 6224 l^6 r^2 R^6 - 46688 l^4 r^4 R^6 + 101328 l^2 r^6 R^6 - 103520 r^8 R^6 + 848 l^6 r R^7 - 28912 l^4 r^3 R^7 + 116144 l^2 r^5 R^7 - 150800 r^7 R^7 + 16 l^6 R^8 - 6624 l^4 r^2 R^8 + 73488 l^2 r^4 R^8 - 143616 r^6 R^8 - 384 l^4 r R^9 + 22400 l^2 r^3 R^9 - 85504 r^5 R^9 + 2304 l^2 r^2 R^{10} - 28672 r^4 R^{10} - 4096 r^3 R^{11}\big)\Big) \Big/ \Big(\big(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\big)^2 \big(l^2 r + r^3 - l^2 R + 3 r^2 R + 2 r R^2 + 2 R^3\big)^2\Big)\}$$

$$\{X39, \text{BrocardMidpoint}, X92, \text{CEVAPOINT OF INCENTER AND CLAWSON POINT},$$
$$\frac{1}{\big(l^2 + r^2 - 4 R^2\big)^2 \big(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\big)^2}$$
$$\big(l^{14} + 5 l^{12} r^2 + 9 l^{10} r^4 + 5 l^8 r^6 - 5 l^6 r^8 - 9 l^4 r^{10} - 5 l^2 r^{12} - r^{14} - 36 l^{12} r R - 96 l^{10} r^3 R - 52 l^8 r^5 R + 32 l^6 r^7 R - 12 l^4 r^9 R - 64 l^2 r^{11} R - 28 r^{13} R - 8 l^{12} R^2 + 420 l^{10} r^2 R^2 + 424 l^8 r^4 R^2 + 56 l^6 r^6 R^2 + 216 l^4 r^8 R^2 - 188 l^2 r^{10} R^2 - 344 r^{12} R^2 + 256 l^{10} r R^3 - 2336 l^8 r^3 R^3 + 1120 l^6 r^5 R^3 - 864 l^4 r^7 R^3 + 1184 l^2 r^9 R^3 - 2432 r^{11} R^3 + 16 l^{10} R^4 - 2672 l^8 r^2 R^4 + 9088 l^6 r^4 R^4 - 11264 l^4 r^6 R^4 + 11120 l^2 r^8 R^4 - 10896 r^{10} R^4 - 448 l^8 r R^5 + 13184 l^6 r^3 R^5 - 32512 l^4 r^5 R^5 + 38528 l^2 r^7 R^5 - 32064 r^9 R^5 + 3904 l^6 r^2 R^6 - 37248 l^4 r^4 R^6 + 69952 l^2 r^6 R^6 - 61952 r^8 R^6 - 14848 l^4 r^3 R^7 + 66048 l^2 r^5 R^7 - 75776 r^7 R^7 + 25600 l^2 r^4 R^8 - 53248 r^6 R^8 - 16384 r^5 R^9\big)\}$$

$$\{X39, \text{BrocardMidpoint}, X93, \text{ISOGONAL CONJUGATE OF } X(49),$$
$$\Big(l^{18} + 7 l^{16} r^2 + 20 l^{14} r^4 + 28 l^{12} r^6 + 14 l^{10} r^8 - 14 l^8 r^{10} - 28 l^6 r^{12} - 20 l^4 r^{14} - 7 l^2 r^{16} - r^{18} - 36 l^{16} r R - 160 l^{14} r^3 R - 240 l^{12} r^5 R - 96 l^{10} r^7 R + 40 l^8 r^9 R - 96 l^6 r^{11} R - 240 l^4 r^{13} R - 160 l^2 r^{15} R - 36 r^{17} R - 10 l^{16} R^2 + 396 l^{14} r^2 R^2 + 1040 l^{12} r^4 R^2 + 820 l^{10} r^6 R^2 + 564 l^8 r^8 R^2 + 436 l^6 r^{10} R^2 - 880 l^4 r^{12} R^2 - 1524 l^2 r^{14} R^2 - 586 r^{16} R^2 + 320 l^{14} r R^3 - 1376 l^{12} r^3 R^3 - 2720 l^{10} r^5 R^3 - 1536 l^8 r^7 R^3 + 1792 l^6 r^9 R^3 + 416 l^4 r^{11} R^3 - 7584 l^2 r^{13} R^3 - 5696 r^{15} R^3 + 32 l^{14} R^4 - 3120 l^{12} r^2 R^4 - 2448 l^{10} r^4 R^4 + 11904 l^8 r^6 R^4 - 8832 l^6 r^8 R^4 + 14160 l^4 r^{10} R^4 - 18960 l^2 r^{12} R^4 - 36768 r^{14} R^4 - 896 l^{12} r R^5 + 9536 l^{10} r^3 R^5 + 41088 l^8 r^5 R^5 - 76928 l^6 r^7 R^5 + 66688 l^4 r^9 R^5 - 7872 l^2 r^{11} R^5 - 165760 r^{13} R^5 - 34 l^{12} R^6 + 6692 l^{10} r^2 R^6 + 22338 l^8 r^4 R^6 - 207880 l^6 r^6 R^6 + 210242 l^4 r^8 R^6 + 88100 l^2 r^{10} R^6 - 534050 r^{12} R^6 + 816 l^{10} r R^7 - 7536 l^8 r^3 R^7 - 232608 l^6 r^5 R^7 + 447648 l^4 r^7 R^7 + 249200 l^2 r^9 R^7 - 1235760 r^{11} R^7 + 7 l^{10} R^8 - 3483 l^8 r^2 R^8 - 98626 l^6 r^4 R^8 + 563842 l^4 r^6 R^8 + 269883 l^2 r^8 R^8 - 2031591 r^{10} R^8 - 140 l^8 r R^9 - 12464 l^6 r^3 R^9 + 363448 l^4 r^5 R^9 + 47952 l^2 r^7 R^9 - 2304652 r^9 R^9 + 4 l^8 R^{10} - 684 l^6 r^2 R^{10} + 99456 l^4 r^4 R^{10} - 137580 l^2 r^6 R^{10} - 1704540 r^8 R^{10} - 64 l^6 r R^{11} + 10016 l^4 r^3 R^{11} - 98208 l^2 r^5 R^{11} - 737600 r^7 R^{11} + 384 l^4 r^2 R^{12} - 20416 l^2 r^4 R^{12} - 147840 r^6 R^{12} - 1024 l^2 r^3 R^{13} - 6144 r^5 R^{13} + 1024 r^4 R^{14}\Big) \Big/ \Big(\big(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\big)^2 \big(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 8 l^2 R^2 + 24 r^2 R^2 + 32 r R^3 + 13 R^4\big)^2\Big)\}$$

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{X39, BrocardMidpoint, X94, ISOGONAL CONJUGATE OF X(50),
 (l^18 + 7 l^16 r^2 + 20 l^14 r^4 + 28 l^12 r^6 + 14 l^10 r^8 - 14 l^8 r^10 - 28 l^6 r^12 - 20 l^4 r^14 - 7 l^2 r^16 - r^18 - 36 l^16 r R -
    160 l^14 r^3 R - 240 l^12 r^5 R - 96 l^10 r^7 R + 40 l^8 r^9 R - 96 l^6 r^11 R - 240 l^4 r^13 R - 160 l^2 r^15 R -
    36 r^17 R - 12 l^16 R^2 + 396 l^14 r^2 R^2 + 1080 l^12 r^4 R^2 + 948 l^10 r^6 R^2 + 744 l^8 r^8 R^2 + 564 l^6 r^10 R^2 -
    840 l^4 r^12 R^2 - 1524 l^2 r^14 R^2 - 588 r^16 R^2 + 384 l^14 r R^3 - 1440 l^12 r^3 R^3 - 3296 l^10 r^5 R^3 -
    1984 l^8 r^7 R^3 + 2240 l^6 r^9 R^3 + 992 l^4 r^11 R^3 - 7520 l^2 r^13 R^3 - 5760 r^15 R^3 + 54 l^14 R^4 - 3810 l^12 r^2 R^4 -
    1962 l^10 r^4 R^4 + 12 590 l^8 r^6 R^4 - 8622 l^6 r^8 R^4 + 17 130 l^4 r^10 R^4 - 17 630 l^2 r^12 R^4 - 37 686 r^14 R^4 -
    1512 l^12 r R^5 + 13 200 l^10 r^3 R^5 + 41 832 l^8 r^5 R^5 - 77 856 l^6 r^7 R^5 + 72 552 l^4 r^9 R^5 + 3984 l^2 r^11 R^5 -
    173 544 r^13 R^5 - 108 l^12 R^6 + 11 880 l^10 r^2 R^6 + 14 604 l^8 r^4 R^6 - 212 304 l^6 r^6 R^6 + 210 604 l^4 r^8 R^6 +
    147 176 l^2 r^10 R^6 - 577 356 r^12 R^6 + 2592 l^10 r R^7 - 23 328 l^8 r^3 R^7 - 244 416 l^6 r^5 R^7 + 441 792 l^4 r^7 R^7 +
    428 192 l^2 r^9 R^7 - 1 401 504 r^11 R^7 + 81 l^10 R^8 - 14 013 l^8 r^2 R^8 - 105 678 l^6 r^4 R^8 + 594 510 l^4 r^6 R^8 +
    603 261 l^2 r^8 R^8 - 2 475 921 r^10 R^8 - 1620 l^8 r R^9 - 3024 l^6 r^3 R^9 + 453 384 l^4 r^5 R^9 + 408 624 l^2 r^7 R^9 -
    3 136 084 r^9 R^9 + 4212 l^6 r^2 R^10 + 166 536 l^4 r^4 R^10 + 47 412 l^2 r^6 R^10 - 2 762 400 r^8 R^10 +
    18 144 l^4 r^3 R^11 - 90 720 l^2 r^5 R^11 - 1 600 128 r^7 R^11 - 36 288 l^2 r^4 R^12 - 546 048 r^6 R^12 - 82 944 r^5 R^13) /
  ((l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2)^2
    (l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 12 l^2 R^2 + 28 r^2 R^2 + 48 r R^3 + 27 R^4)^2)}

{X39, BrocardMidpoint, X95, CEVAPOINT OF CENTROID AND CIRCUMCENTER,
 (l^18 + 23 l^16 r^2 + 100 l^14 r^4 + 172 l^12 r^6 + 94 l^10 r^8 - 94 l^8 r^10 - 172 l^6 r^12 - 100 l^4 r^14 - 23 l^2 r^16 - r^18 -
    36 l^16 r R - 608 l^14 r^3 R - 1392 l^12 r^5 R - 672 l^10 r^7 R + 296 l^8 r^9 R - 672 l^6 r^11 R - 1392 l^4 r^13 R -
    608 l^2 r^15 R - 36 r^17 R - 8 l^16 R^2 + 340 l^14 r^2 R^2 + 5016 l^12 r^4 R^2 + 620 l^10 r^6 R^2 + 10 016 l^8 r^8 R^2 -
    2068 l^6 r^10 R^2 - 6120 l^4 r^12 R^2 - 6956 l^2 r^14 R^2 - 584 r^16 R^2 + 256 l^14 r R^3 + 32 l^12 r^3 R^3 -
    17 568 l^10 r^5 R^3 + 30 272 l^8 r^7 R^3 - 27 968 l^6 r^9 R^3 - 96 l^4 r^11 R^3 - 44 832 l^2 r^13 R^3 - 5632 r^15 R^3 +
    16 l^14 R^4 - 2576 l^12 r^2 R^4 - 11 728 l^10 r^4 R^4 + 42 128 l^8 r^6 R^4 - 102 672 l^6 r^8 R^4 + 81 808 l^4 r^10 R^4 -
    176 944 l^2 r^12 R^4 - 35 856 r^14 R^4 - 448 l^12 r R^5 + 8960 l^10 r^3 R^5 + 53 184 l^8 r^5 R^5 - 128 512 l^6 r^7 R^5 +
    274 368 l^4 r^9 R^5 - 432 384 l^2 r^11 R^5 - 158 144 r^13 R^5 + 3648 l^10 r^2 R^6 + 6912 l^8 r^4 R^6 - 157 824 l^6 r^6 R^6 +
    406 016 l^4 r^8 R^6 - 617 920 l^2 r^10 R^6 - 492 800 r^12 R^6 - 8192 l^8 r^3 R^7 - 125 952 l^6 r^5 R^7 + 353 280 l^4 r^7 R^7 -
    412 672 l^2 r^9 R^7 - 1 084 416 r^11 R^7 - 22 528 l^6 r^4 R^8 + 274 432 l^4 r^6 R^8 + 26 624 l^2 r^8 R^8 - 1 650 688 r^10 R^8 +
    98 304 l^4 r^5 R^9 + 147 456 l^2 r^7 R^9 - 1 654 784 r^9 R^9 + 16 384 l^2 r^6 R^10 - 983 040 r^8 R^10 - 262 144 r^7 R^11) /
  ((l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2)^2
    (l^4 + 18 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 4 l^2 R^2 + 20 r^2 R^2 + 16 r R^3)^2)}

{X39, BrocardMidpoint, X96, ISOGONAL CONJUGATE OF X(52),
 -((l^18 - 9 l^16 r^2 - 60 l^14 r^4 - 116 l^12 r^6 - 66 l^10 r^8 + 66 l^8 r^10 + 116 l^6 r^12 + 60 l^4 r^14 + 9 l^2 r^16 - r^18 -
      36 l^16 r R + 288 l^14 r^3 R + 912 l^12 r^5 R + 480 l^10 r^7 R - 216 l^8 r^9 R + 480 l^6 r^11 R + 912 l^4 r^13 R +
      288 l^2 r^15 R - 36 r^17 R - 12 l^16 R^2 + 652 l^14 r^2 R^2 - 3656 l^12 r^4 R^2 + 436 l^10 r^6 R^2 - 8216 l^8 r^8 R^2 +
      2356 l^6 r^10 R^2 + 3640 l^4 r^12 R^2 + 4108 l^2 r^14 R^2 - 588 r^16 R^2 + 384 l^14 r R^3 - 7584 l^12 r^3 R^3 +
      28 448 l^10 r^5 R^3 - 44 992 l^8 r^7 R^3 + 43 200 l^6 r^9 R^3 - 15 392 l^4 r^11 R^3 + 34 464 l^2 r^13 R^3 - 5760 r^15 R^3 +
      56 l^14 R^4 - 5576 l^12 r^2 R^4 + 58 264 l^10 r^4 R^4 - 167 080 l^8 r^6 R^4 + 257 064 l^6 r^8 R^4 - 202 840 l^4 r^10 R^4 +
      188 936 l^2 r^12 R^4 - 37 688 r^14 R^4 - 1568 l^12 r R^5 + 48 576 l^10 r^3 R^5 - 306 656 l^8 r^5 R^5 + 710 784 l^6 r^7 R^5 -
      865 760 l^4 r^9 R^5 + 711 104 l^2 r^11 R^5 - 173 600 r^13 R^5 - 128 l^12 R^6 + 18 912 l^10 r^2 R^6 - 276 352 l^8 r^4 R^6 +
      1 139 008 l^6 r^6 R^6 - 2 031 360 l^4 r^8 R^6 + 1 879 008 l^2 r^10 R^6 - 578 048 r^12 R^6 + 3072 l^10 r R^7 -
      130 048 l^8 r^3 R^7 + 1 055 232 l^6 r^5 R^7 - 2 919 936 l^4 r^7 R^7 + 3 504 640 l^2 r^9 R^7 - 1 406 464 r^11 R^7 +
      144 l^10 R^8 - 30 416 l^8 r^2 R^8 + 560 288 l^6 r^4 R^8 - 2 670 752 l^4 r^6 R^8 + 4 578 000 l^2 r^8 R^8 -
      2 498 704 r^10 R^8 - 2880 l^8 r R^9 + 163 072 l^6 r^3 R^9 - 1 523 584 l^4 r^5 R^9 + 4 103 424 l^2 r^7 R^9 -
      3 205 952 r^9 R^9 - 64 l^8 R^10 + 22 720 l^6 r^2 R^10 - 513 024 l^4 r^4 R^10 + 2 436 288 l^2 r^6 R^10 -
      2 906 688 r^8 R^10 + 1024 l^6 r R^11 - 90 624 l^4 r^3 R^11 + 903 680 l^2 r^5 R^11 - 1 797 120 r^7 R^11 -
      6144 l^4 r^2 R^12 + 187 392 l^2 r^4 R^12 - 714 752 r^6 R^12 + 16 384 l^2 r^3 R^13 - 163 840 r^5 R^13 - 16 384 r^4 R^14) /
    ((l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2)^2 (l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2 - 4 R^4)^2))}
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$$\{X39, \text{BrocardMidpoint}, X97, \text{ISOGONAL CONJUGATE OF } X(53),$$
$$\Big(R^2 \big(8 l^{14} r^2 + 80 l^{12} r^4 - 1032 l^{10} r^6 + 1888 l^8 r^8 - 1032 l^6 r^{10} + 80 l^4 r^{12} + 8 l^2 r^{14} -$$
$$192 l^{12} r^3 R - 1088 l^{10} r^5 R + 9344 l^8 r^7 R - 9344 l^6 r^9 R + 1088 l^4 r^{11} R + 192 l^2 r^{13} R + l^{14} R^2 -$$
$$47 l^{12} r^2 R^2 + 749 l^{10} r^4 R^2 + 10653 l^8 r^6 R^2 - 29341 l^6 r^8 R^2 + 5779 l^4 r^{10} R^2 + 1967 l^2 r^{12} R^2 -$$
$$r^{14} R^2 - 28 l^{12} r R^3 + 968 l^{10} r^3 R^3 + 2844 l^8 r^5 R^3 - 39312 l^6 r^7 R^3 + 15132 l^4 r^9 R^3 +$$
$$11208 l^2 r^{11} R^3 - 28 r^{13} R^3 - 8 l^{12} R^4 + 276 l^{10} r^2 R^4 - 2376 l^8 r^4 R^4 - 26856 l^6 r^6 R^4 +$$
$$21288 l^4 r^8 R^4 + 38740 l^2 r^{10} R^4 - 344 r^{12} R^4 + 192 l^{10} r R^5 - 1472 l^8 r^3 R^5 - 11840 l^6 r^5 R^5 +$$
$$21696 l^4 r^7 R^5 + 82944 l^2 r^9 R^5 - 2432 r^{11} R^5 + 16 l^{10} R^6 - 1008 l^8 r^2 R^6 - 3584 l^6 r^4 R^6 +$$
$$27264 l^4 r^6 R^6 + 107248 l^2 r^8 R^6 - 10896 r^{10} R^6 - 320 l^8 r R^7 - 384 l^6 r^3 R^7 + 25472 l^4 r^5 R^7 +$$
$$76416 l^2 r^7 R^7 - 32064 r^9 R^7 + 832 l^6 r^2 R^8 + 14976 l^4 r^4 R^8 + 20800 l^2 r^6 R^8 - 61952 r^8 R^8 +$$
$$3584 l^4 r^3 R^9 - 7680 l^2 r^5 R^9 - 75776 r^7 R^9 - 7168 l^2 r^4 R^{10} - 53248 r^6 R^{10} - 16384 r^5 R^{11}\big)\Big) \Big/$$
$$\Big(\big(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\big)^2$$
$$\big(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 7 l^2 R^2 + 23 r^2 R^2 + 28 r R^3 + 12 R^4\big)^2\Big)\}$$

$$\{X39, \text{BrocardMidpoint}, X98, \text{TarryPoint},$$
$$-\Big(\big(l^{14} + 5 l^{12} r^2 + 9 l^{10} r^4 + 5 l^8 r^6 - 5 l^6 r^8 - 9 l^4 r^{10} - 5 l^2 r^{12} - r^{14} - 28 l^{12} r R - 72 l^{10} r^3 R -$$
$$36 l^8 r^5 R + 16 l^6 r^7 R - 36 l^4 r^9 R - 72 l^2 r^{11} R - 28 r^{13} R - 4 l^{12} R^2 + 308 l^{10} r^2 R^2 + 36 l^8 r^4 R^2 +$$
$$568 l^6 r^6 R^2 - 108 l^4 r^8 R^2 - 268 l^2 r^{10} R^2 - 340 r^{12} R^2 + 96 l^{10} r R^3 - 1888 l^8 r^3 R^3 + 2560 l^6 r^5 R^3 -$$
$$2432 l^4 r^7 R^3 + 928 l^2 r^9 R^3 - 2336 r^{11} R^3 - 960 l^8 r^2 R^4 + 7808 l^6 r^4 R^4 - 12928 l^4 r^6 R^4 +$$
$$10368 l^2 r^8 R^4 - 9920 r^{10} R^4 + 5120 l^6 r^3 R^5 - 23552 l^4 r^5 R^5 + 32768 l^2 r^7 R^5 - 26624 r^9 R^5 -$$
$$15360 l^4 r^4 R^6 + 46080 l^2 r^6 R^6 - 44032 r^8 R^6 + 24576 l^2 r^5 R^7 - 40960 r^7 R^7 - 16384 r^6 R^8\big) \Big/$$
$$\big(\big(l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\big)\ \big(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\big)^2\big)\Big)\}$$

$$\{X39, \text{BrocardMidpoint}, X99, \text{STEINER POINT},$$
$$\big(l^{14} + 5 l^{12} r^2 + 9 l^{10} r^4 + 5 l^8 r^6 - 5 l^6 r^8 - 9 l^4 r^{10} - 5 l^2 r^{12} - r^{14} - 28 l^{12} r R - 72 l^{10} r^3 R - 36 l^8 r^5 R +$$
$$16 l^6 r^7 R - 36 l^4 r^9 R - 72 l^2 r^{11} R - 28 r^{13} R + 228 l^{10} r^2 R^2 + 448 l^8 r^4 R^2 - 488 l^6 r^6 R^2 +$$
$$304 l^4 r^8 R^2 - 348 l^2 r^{10} R^2 - 336 r^{12} R^2 - 512 l^8 r^3 R^3 - 2112 l^6 r^5 R^3 + 2240 l^4 r^7 R^3 -$$
$$448 l^2 r^9 R^3 - 2240 r^{11} R^3 - 1408 l^6 r^4 R^4 + 5632 l^4 r^6 R^4 + 1152 l^2 r^8 R^4 - 8960 r^{10} R^4 +$$
$$6144 l^4 r^5 R^5 + 3072 l^2 r^7 R^5 - 21504 r^9 R^5 + 1024 l^2 r^6 R^6 - 28672 r^8 R^6 - 16384 r^7 R^7\big) \Big/$$
$$\big(\big(l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\big)\ \big(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\big)^2\big)\}$$

$$\{X39, \text{BrocardMidpoint}, X100, \text{ANTICOMPLEMENT OF FEUERBACH POINT},$$
$$\Big(R \big(-l^{10} - 3 l^8 r^2 - 2 l^6 r^4 + 2 l^4 r^6 + 3 l^2 r^8 + r^{10} + 28 l^8 r R + 64 l^4 r^5 R -$$
$$16 l^2 r^7 R + 20 r^9 R - 244 l^6 r^2 R^2 + 312 l^4 r^4 R^2 - 372 l^2 r^6 R^2 + 160 r^8 R^2 +$$
$$928 l^4 r^3 R^3 - 1440 l^2 r^5 R^3 + 640 r^7 R^3 - 1600 l^2 r^4 R^4 + 1280 r^6 R^4 + 1024 r^5 R^5\big)\Big) \Big/$$
$$\big((2 r - R)\ \big(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\big)^2\big)\}$$

$$\{X40, \text{BEVAN POINT}, X41, X(6)\text{-CEVA CONJUGATE OF } X(31),$$
$$-\Big(\big(4 R \big(6 l^4 r^3 - 2 l^2 r^5 + 2 l^4 r^2 R - 11 l^2 r^4 R - r^6 R - 8 l^4 r R^2 + 12 l^2 r^3 R^2 - 16 r^5 R^2 - 4 l^4 R^3 + 112 l^2 r^2 R^3 -$$
$$96 r^4 R^3 + 64 l^2 r R^4 - 256 r^3 R^4 - 256 r^2 R^5\big)\big) \Big/ \big(3 l^2 r - r^3 + 2 l^2 R - 8 r^2 R - 16 r R^2\big)^2\Big)\}$$

$$\Big\{X40, \text{BEVAN POINT}, X42, \text{CROSSPOINT OF INCENTER AND SYMMEDIAN POINT},$$
$$-\frac{4 R \big(l^4 r + 2 l^2 r^3 + r^5 - l^4 R + 5 l^2 r^2 R + 2 r^4 R + 4 l^2 r R^2 - 4 r^2 R^3\big)}{\big(l^2 + r^2 - 2 r R\big)^2}\Big\}$$

$$\Big\{X40, \text{BEVAN POINT}, X43, X(6)\text{-CEVA CONJUGATE OF } X(1),$$
$$\frac{4 R^2 \big(l^4 - 6 l^2 r^2 + 9 r^4 - 16 l^2 r R + 16 r^3 R + 64 r^2 R^2\big)}{\big(l^2 + r^2 - 8 r R\big)^2}\Big\}$$

$$\Big\{X40, \text{BEVAN POINT}, X44, X(6)\text{-LINE CONJUGATE OF } X(1),$$
$$\frac{4 R \big(l^4 r + 3 l^2 r^3 + l^4 R - 21 l^2 r^2 R + 9 r^4 R - 24 l^2 r R^2 + 72 r^3 R^2 + 144 r^2 R^3\big)}{\big(l^2 - 3 r^2 - 12 r R\big)^2}\Big\}$$

$$\left\{X40,\ \text{BEVAN POINT},\ X45,\ X(9)\text{-BETH CONJUGATE OF } X(1),\ -\frac{4R\left(5l^4r+3l^2r^3-l^4R+33l^2r^2R-9r^4R-24l^2rR^2-72r^3R^2-144r^2R^3\right)}{\left(l^2+3r^2+12rR\right)^2}\right\}$$

$$\left\{X40,\ \text{BEVAN POINT},\ X46,\ X(4)\text{-CEVA CONJUGATE OF } X(1),\ -\frac{4(2r-R)R^3}{(r-R)^2}\right\}$$

$$\left\{X40,\ \text{BEVAN POINT},\ X47,\ X(110)\text{-BETH CONJUGATE OF } X(34),\ -\frac{4R\left(l^4r-4l^2r^3+3r^5-l^4R-3l^2r^2R+10r^4R+6l^2rR^2+2r^3R^2+4l^2R^3-20r^2R^3-16rR^4-4R^5\right)}{\left(l^2-3r^2-6rR-2R^2\right)^2}\right\}$$

$$\left\{X40,\ \text{BEVAN POINT},\ X48,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(63),\ -\frac{4R\left(6l^4r-2l^2r^3-8l^4R-5l^2r^2R-r^4R+20l^2rR^2-12r^3R^2+44l^2R^3-52r^2R^3-96rR^4-64R^5\right)}{\left(3l^2-r^2-6rR-8R^2\right)^2}\right\}$$

$$\left\{X40,\ \text{BEVAN POINT},\ X49,\ \text{CENTER OF SINE-TRIPLE-ANGLE CIRCLE},\ -\frac{1}{\left(2l^2-2r^2-8rR-7R^2\right)^2}R\left(12l^4r-16l^2r^3+4r^5-15l^4R-38l^2r^2R+25r^4R+42l^2rR^2+26r^3R^2+100l^2R^3-112r^2R^3-274rR^4-169R^5\right)\right\}$$

$$\left\{X40,\ \text{BEVAN POINT},\ X50,\ X(74)\text{-CEVA CONJUGATE OF } X(184),\ -\frac{1}{\left(l^4-6l^2r^2+r^4-8l^2rR+8r^3R-3l^2R^2+19r^2R^2+12rR^3\right)^2}4R\left(l^8r-9l^6r^3+19l^4r^5-3l^2r^7-l^8R-l^6r^2R+32l^4r^4R-17l^2r^6R-r^8R+10l^6rR^2-26l^4r^3R^2+12l^2r^5R^2-16r^7R^2+6l^6R^3-96l^4r^2R^3+216l^2r^4R^3-102r^6R^3-63l^4rR^4+415l^2r^3R^4-328r^5R^4-9l^4R^5+297l^2r^2R^5-553r^4R^5+72l^2rR^6-456r^3R^6-144r^2R^7\right)\right\}$$

$$\left\{X40,\ \text{BEVAN POINT},\ X51,\ \text{CENTROID OF ORTHIC TRIANGLE},\ \frac{-l^4-18l^2r^2-r^4-4l^2rR-20r^3R+4l^2R^2-92r^2R^2-112rR^3+144R^4}{36R^2}\right\}$$

$$\left\{X40,\ \text{BEVAN POINT},\ X52,\ \text{ORTHOCENTER OF ORTHIC TRIANGLE},\ \frac{l^4-14l^2r^2+r^4-12l^2rR+4r^3R+4l^2R^2-4r^2R^2-24rR^3+4R^4}{4R^2}\right\}$$

$$\left\{X40,\ \text{BEVAN POINT},\ X53,\ \text{SYMMEDIAN POINT OF ORTHIC TRIANGLE},\ \frac{1}{\left(l^4-6l^2r^2+r^4-8l^2rR+8r^3R-4l^2R^2+20r^2R^2+16rR^3\right)^2}4\left(2l^8r^2-12l^6r^4+2l^4r^6-l^8rR-13l^6r^3R+33l^4r^5R-3l^2r^7R+l^8R^2-19l^6r^2R^2+124l^4r^4R^2-43l^2r^6R^2+r^8R^2-8l^6rR^3+168l^4r^3R^3-224l^2r^5R^3+16r^7R^3-8l^6R^4+144l^4r^2R^4-544l^2r^4R^4+104r^6R^4+80l^4rR^5-656l^2r^3R^5+352r^5R^5+16l^4R^6-400l^2r^2R^6+656r^4R^6-128l^2rR^7+640r^3R^7+256r^2R^8\right)\right\}$$

$$\left\{X40,\ \text{BEVAN POINT},\ X54,\ \text{KosnitaPoint},\ -\frac{1}{\left(2l^2-2r^2-8rR-5R^2\right)^2}R\left(12l^4r-16l^2r^3+4r^5-12l^4R-36l^2r^2R+24r^4R+42l^2rR^2+18r^3R^2+55l^2R^3-101r^2R^3-160rR^4-64R^5\right)\right\}$$

$$\left\{X40,\ \text{BEVAN POINT},\ X55,\ \text{INSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ -\frac{(2r-R)R(r+2R)^2}{(r+R)^2}\right\}$$

$$\left\{X40,\ \text{BEVAN POINT},\ X56,\ \text{EXSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ -\frac{(r-2R)^2(2r-R)R}{(r-R)^2}\right\}$$

$$\left\{X40,\ \text{BEVAN POINT},\ X57,\ \text{ISOGONAL CONJUGATE OF } X(9),\ -\frac{16\,(2\,r-R)\,R^3}{(r-2\,R)^2}\right\}$$

$$\left\{X40,\ \text{BEVAN POINT},\ X58,\ \text{ISOGONAL CONJUGATE OF } X(10),\ -\frac{4\,R\,\left(l^4\,r-4\,l^2\,r^3+3\,r^5-l^4\,R+3\,l^2\,r^2\,R+8\,l^2\,r\,R^2-16\,r^3\,R^2-16\,r^2\,R^3\right)}{\left(l^2-3\,r^2-4\,r\,R\right)^2}\right\}$$

$$\left\{X40,\ \text{BEVAN POINT},\ X59,\ \text{ISOGONAL CONJUGATE OF } X(11),\ -\left(\left(R\,\left(6\,l^4\,r^2-8\,l^2\,r^4+2\,r^6-10\,l^4\,r\,R-24\,l^2\,r^3\,R+18\,r^5\,R+4\,l^4\,R^2+19\,l^2\,r^2\,R^2+43\,r^4\,R^2+48\,l^2\,r\,R^3-12\,r^3\,R^3-32\,l^2\,R^4-108\,r^2\,R^4-32\,r\,R^5+64\,R^6\right)\right)\Big/\left((2\,r-R)\,\left(-l^2+r^2+5\,r\,R+4\,R^2\right)^2\right)\right)\right\}$$

$$\left\{X40,\ \text{BEVAN POINT},\ X60,\ \text{ISOGONAL CONJUGATE OF } X(12),\ -\left(\left(R\,\left(12\,l^4\,r^3-16\,l^2\,r^5+4\,r^7+2\,l^4\,r^2\,R-32\,l^2\,r^4\,R+14\,r^6\,R-10\,l^4\,r\,R^2+38\,l^2\,r^3\,R^2-24\,r^5\,R^2-4\,l^4\,R^3+129\,l^2\,r^2\,R^3-191\,r^4\,R^3+56\,l^2\,r\,R^4-332\,r^3\,R^4-196\,r^2\,R^5\right)\right)\Big/\left(2\,l^2\,r-2\,r^3+l^2\,R-7\,r^2\,R-7\,r\,R^2\right)^2\right)\right\}$$

$$\left\{X40,\ \text{BEVAN POINT},\ X61,\ \text{ISOGONAL CONJUGATE OF } X(17),\ \left(12\,R\,\left(-3\,l^4\,r-3\,\sqrt{3}\,l^3\,r^2+l^2\,r^3+\sqrt{3}\,l\,r^4+3\,l^4\,R+2\,\sqrt{3}\,l^3\,r\,R-2\,l^2\,r^2\,R+2\,\sqrt{3}\,l\,r^3\,R+3\,r^4\,R-24\,l^2\,r\,R^2-8\,\sqrt{3}\,l\,r^2\,R^2+24\,r^3\,R^2+48\,r^2\,R^3\right)\right)\Big/\left(3\,l^2+2\,\sqrt{3}\,l\,r-3\,r^2-12\,r\,R\right)^2\right\}$$

$$\left\{X40,\ \text{BEVAN POINT},\ X62,\ \text{ISOGONAL CONJUGATE OF } X(18),\ \left(12\,R\,\left(-3\,l^4\,r+3\,\sqrt{3}\,l^3\,r^2+l^2\,r^3-\sqrt{3}\,l\,r^4+3\,l^4\,R-2\,\sqrt{3}\,l^3\,r\,R-2\,l^2\,r^2\,R-2\,\sqrt{3}\,l\,r^3\,R+3\,r^4\,R-24\,l^2\,r\,R^2+8\,\sqrt{3}\,l\,r^2\,R^2+24\,r^3\,R^2+48\,r^2\,R^3\right)\right)\Big/\left(3\,l^2-2\,\sqrt{3}\,l\,r-3\,r^2-12\,r\,R\right)^2\right\}$$

$$\left\{X40,\ \text{BEVAN POINT},\ X63,\ \text{ISOGONAL CONJUGATE OF } X(19),\ \frac{R^2\,\left(-l^2+3\,r^2+4\,r\,R+4\,R^2\right)}{(r+R)^2}\right\}$$

$$\left\{X40,\ \text{BEVAN POINT},\ X64,\ \text{ISOGONAL CONJUGATE OF } X(20),\ \frac{4\,R\,(r+2\,R)^2\,\left(l^2\,r-r^3-l^2\,R-2\,r^2\,R+4\,R^3\right)}{(l-r-2\,R)^2\,(l+r+2\,R)^2}\right\}$$

$$\left\{X40,\ \text{BEVAN POINT},\ X65,\ \text{ORTHOCENTER OF THE INTOUCH TRIANGLE},\ \frac{(-2\,r+R)\,(r+2\,R)^2}{R}\right\}$$

$$\left\{X40,\ \text{BEVAN POINT},\ X66,\ \text{ISOGONAL CONJUGATE OF } X(22),\ -\frac{1}{(l-r-2\,R)^2\,(l+r+2\,R)^2\,\left(l^2-r^2-4\,r\,R\right)^2}\left(2\,l^{10}-12\,l^8\,r^2+24\,l^6\,r^4-20\,l^4\,r^6+6\,l^2\,r^8-38\,l^8\,r\,R+164\,l^6\,r^3\,R-216\,l^4\,r^5\,R+92\,l^2\,r^7\,R-2\,r^9\,R-19\,l^8\,R^2+364\,l^6\,r^2\,R^2-902\,l^4\,r^4\,R^2+596\,l^2\,r^6\,R^2-39\,r^8\,R^2+288\,l^6\,r\,R^3-1816\,l^4\,r^3\,R^3+2096\,l^2\,r^5\,R^3-312\,r^7\,R^3+60\,l^6\,R^4-1764\,l^4\,r^2\,R^4+4244\,l^2\,r^4\,R^4-1324\,r^6\,R^4-688\,l^4\,r\,R^5+4800\,l^2\,r^3\,R^5-3216\,r^5\,R^5-64\,l^4\,R^6+2672\,l^2\,r^2\,R^6-4480\,r^4\,R^6+512\,l^2\,r\,R^7-3328\,r^3\,R^7-1024\,r^2\,R^8\right)\right\}$$

$$\left\{X40,\ \text{BEVAN POINT},\ X67,\ \text{ISOGONAL CONJUGATE OF } X(23),\ -\left(\left(3\,l^8-20\,l^6\,r^2+30\,l^4\,r^4-12\,l^2\,r^6-r^8-46\,l^6\,r\,R+174\,l^4\,r^3\,R-114\,l^2\,r^5\,R-14\,r^7\,R-20\,l^6\,R^2+336\,l^4\,r^2\,R^2-444\,l^2\,r^4\,R^2-64\,r^6\,R^2+228\,l^4\,r\,R^3-900\,l^2\,r^3\,R^3-64\,r^5\,R^3+36\,l^4\,R^4-900\,l^2\,r^2\,R^4+292\,r^4\,R^4-288\,l^2\,r\,R^5+800\,r^3\,R^5+576\,r^2\,R^6\right)\Big/\left(\left(l^2-r^2-4\,r\,R\right)^2\,\left(2\,l^2-2\,r^2-8\,r\,R-9\,R^2\right)\right)\right)\right\}$$

$$\left\{X40,\ \text{BEVAN POINT},\ X68,\ \text{PRASOLOV POINT},\ -\left(\left(2\,l^6-8\,l^4\,r^2+6\,l^2\,r^4-22\,l^4\,r\,R+40\,l^2\,r^3\,R-2\,r^5\,R-21\,l^4\,R^2+114\,l^2\,r^2\,R^2-25\,r^4\,R^2+148\,l^2\,r\,R^3-116\,r^3\,R^3+76\,l^2\,R^4-252\,r^2\,R^4-256\,r\,R^5-100\,R^6\right)\Big/\left((l-r-2\,R)^2\,(l+r+2\,R)^2\right)\right)\right\}$$

$$\left\{X40,\ \text{BEVAN POINT},\ X69,\ \text{SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},\ -\frac{1}{\left(l^2-r^2-4\,r\,R\right)^2}\left(l^6-9\,l^4\,r^2+7\,l^2\,r^4+r^6-12\,l^4\,r\,R+32\,l^2\,r^3\,R+12\,r^5\,R-4\,l^4\,R^2+72\,l^2\,r^2\,R^2+44\,r^4\,R^2+32\,l^2\,r\,R^3+32\,r^3\,R^3-64\,r^2\,R^4\right)\right\}$$

$$\{X40,\ \text{BEVAN POINT},\ X70,\ \text{ISOGONAL CONJUGATE OF } X(26),$$
$$-\Big(\big(2\,l^{10}-12\,l^8\,r^2+24\,l^6\,r^4-20\,l^4\,r^6+6\,l^2\,r^8-38\,l^8\,r\,R+164\,l^6\,r^3\,R-216\,l^4\,r^5\,R+92\,l^2\,r^7\,R-$$
$$2\,r^9\,R-28\,l^8\,R^2+404\,l^6\,r^2\,R^2-956\,l^4\,r^4\,R^2+620\,l^2\,r^6\,R^2-40\,r^8\,R^2+422\,l^6\,r\,R^3-$$
$$2206\,l^4\,r^3\,R^3+2378\,l^2\,r^5\,R^3-338\,r^7\,R^3+153\,l^6\,R^4-2755\,l^4\,r^2\,R^4+5591\,l^2\,r^4\,R^4-$$
$$1581\,r^6\,R^4-1718\,l^4\,r\,R^5+8088\,l^2\,r^3\,R^5-4498\,r^5\,R^5-406\,l^4\,R^6+6864\,l^2\,r^2\,R^6-$$
$$8026\,r^4\,R^6+3030\,l^2\,r\,R^7-8882\,r^3\,R^7+519\,l^2\,R^8-5765\,r^2\,R^8-1936\,r\,R^9-256\,R^{10}\big)\Big/$$
$$\big(l^4-2\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-6\,l^2\,R^2+22\,r^2\,R^2+24\,r\,R^3+7\,R^4\big)^2\Big)\}$$

$$\left\{X40,\ \text{BEVAN POINT},\ X71,\ \text{ISOGONAL CONJUGATE OF } X(27),\ -\frac{4\,R^2\,(r+2\,R)^2\,\left(3\,l^2-r^2-8\,r\,R-16\,R^2\right)}{\left(l^2+r^2+6\,r\,R+8\,R^2\right)^2}\right\}$$

$$\left\{X40,\ \text{BEVAN POINT},\ X72,\ \text{ISOGONAL CONJUGATE OF } X(28),\ \frac{l^2\,r-r^3-l^2\,R-2\,r^2\,R+4\,R^3}{R}\right\}$$

$$\{X40,\ \text{BEVAN POINT},\ X73,\ \text{CROSSPOINT OF INCENTER AND CIRCUMCENTER},$$
$$-\frac{4\,R\,\left(l^4\,r+2\,l^2\,r^3+r^5-l^4\,R-l^2\,r^2\,R-4\,r^4\,R-4\,l^2\,r\,R^2-12\,r^3\,R^2+8\,l^2\,R^3-16\,R^5\right)}{\left(l^2+r^2-2\,r\,R-4\,R^2\right)^2}\}$$

$$\{X40,\ \text{BEVAN POINT},\ X74,\ \text{ISOGONAL CONJUGATE OF EULER INFINITY POINT},$$
$$-\frac{R\,\left(2\,l^2\,r-6\,r^3+l^2\,R-19\,r^2\,R-16\,r\,R^2\right)}{2\,l^2-2\,r^2-8\,r\,R-9\,R^2}\}$$

$$\{X40,\ \text{BEVAN POINT},\ X75,\ \text{ISOTOMIC CONJUGATE OF INCENTER},$$
$$-\frac{1}{\left(l^2+r^2+4\,r\,R\right)^2}\big(l^6+3\,l^4\,r^2+3\,l^2\,r^4+r^6+4\,l^4\,r\,R-16\,l^2\,r^3\,R+$$
$$12\,r^5\,R-4\,l^4\,R^2-72\,l^2\,r^2\,R^2+44\,r^4\,R^2-32\,l^2\,r\,R^3+32\,r^3\,R^3-64\,r^2\,R^4\big)\}$$

$$\{X40,\ \text{BEVAN POINT},\ X76,\ \text{3rd BROCARD POINT},$$
$$-\frac{1}{\left(l^4+2\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R+16\,r^2\,R^2\right)^2}\big(l^{10}+5\,l^8\,r^2+10\,l^6\,r^4+10\,l^4\,r^6+5\,l^2\,r^8+r^{10}-20\,l^8\,r\,R-$$
$$40\,l^6\,r^3\,R+40\,l^2\,r^7\,R+20\,r^9\,R-4\,l^8\,R^2+128\,l^6\,r^2\,R^2-216\,l^4\,r^4\,R^2+64\,l^2\,r^6\,R^2+156\,r^8\,R^2+64\,l^6\,r\,R^3-$$
$$320\,l^4\,r^3\,R^3-64\,l^2\,r^5\,R^3+576\,r^7\,R^3-384\,l^4\,r^2\,R^4+256\,l^2\,r^4\,R^4+896\,r^6\,R^4+1024\,l^2\,r^3\,R^5-1024\,r^4\,R^6\big)\}$$

$$\{X40,\ \text{BEVAN POINT},\ X77,\ \text{ISOGONAL CONJUGATE OF } X(33),$$
$$-\frac{R\,\left(6\,l^4\,r-2\,l^2\,r^3-4\,l^4\,R-15\,l^2\,r^2\,R+r^4\,R-32\,l^2\,r\,R^2+12\,r^3\,R^2+32\,l^2\,R^3+44\,r^2\,R^3+32\,r\,R^4-64\,R^5\right)}{\left(l^2-r\,R-4\,R^2\right)^2}\}$$

$$\left\{X40,\ \text{BEVAN POINT},\ X78,\ \text{ISOGONAL CONJUGATE OF } X(34),\ -\frac{(2\,r-R)\,R\,\left(-l^2+3\,r^2+4\,r\,R+4\,R^2\right)}{(r-R)^2}\right\}$$

$$\{X40,\ \text{BEVAN POINT},\ X79,\ \text{ISOGONAL CONJUGATE OF } X(35),$$
$$\frac{4\,\left(-4\,l^2\,r^2-3\,l^2\,r\,R+r^3\,R+7\,r^2\,R^2+12\,r\,R^3+9\,R^4\right)}{(2\,r+3\,R)^2}\}$$

$$\{X40,\ \text{BEVAN POINT},\ X80,$$
$$\text{REFLECTION OF INCENTER IN FEUERBACH POINT},\ \frac{4\,\left(-l^2\,r+r^3+5\,r^2\,R+6\,r\,R^2-R^3\right)}{2\,r-R}\}$$

$$\{X40,\ \text{BEVAN POINT},\ X81,\ \text{CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},$$
$$-\frac{R\,\left(6\,l^4\,r-2\,l^2\,r^3-4\,l^4\,R+13\,l^2\,r^2\,R-3\,r^4\,R+8\,l^2\,r\,R^2-4\,r^3\,R^2-4\,r^2\,R^3\right)}{\left(l^2-r^2-r\,R\right)^2}\}$$

$$\{X40,\ \text{BEVAN POINT},\ X82,\ \text{ISOGONAL CONJUGATE OF } X(38),$$
$$-\left(\left(R\left(6 l^8 r-24 l^6 r^3+44 l^4 r^5-40 l^2 r^7+14 r^9-4 l^8 R-67 l^6 r^2 R+255 l^4 r^4 R-345 l^2 r^6 R+169 r^8 R+72 l^6 r R^2+204 l^4 r^3 R^2-808 l^2 r^5 R^2+660 r^7 R^2-548 l^4 r^2 R^3+280 l^2 r^4 R^3+556 r^6 R^3+2016 l^2 r^3 R^4-1888 r^5 R^4-3136 r^4 R^5\right)\right)\Big/\left(l^4-4 l^2 r^2+3 r^4-9 l^2 r R+19 r^3 R+28 r^2 R^2\right)^2\right)\}$$

$$\{X40,\ \text{BEVAN POINT},\ X83,\ \text{CEVAPOINT OF CENTROID AND SYMMEDIAN POINT},$$
$$-\frac{1}{\left(5 l^4-6 l^2 r^2+5 r^4-40 l^2 r R+40 r^3 R+80 r^2 R^2\right)^2}\left(9 l^{10}+21 l^8 r^2+10 l^6 r^4-6 l^4 r^6-3 l^2 r^8+r^{10}-100 l^8 r R-248 l^6 r^3 R+208 l^4 r^5 R-136 l^2 r^7 R+20 r^9 R-100 l^8 R^2+448 l^6 r^2 R^2+872 l^4 r^4 R^2-896 l^2 r^6 R^2+60 r^8 R^2+1600 l^6 r R^3-2624 l^4 r^3 R^3+192 l^2 r^5 R^3-960 r^7 R^3-9600 l^4 r^2 R^4+13568 l^2 r^4 R^4-8320 r^6 R^4+25600 l^2 r^3 R^5-24576 r^5 R^5-25600 r^4 R^6\right)\}$$

$$\{X40,\ \text{BEVAN POINT},\ X84,\ \text{ISOGONAL CONJUGATE OF } X(40),\ \frac{4 R^2\left(-l^2+3 r^2+4 r R+4 R^2\right)}{r^2}\}$$

$$\{X40,\ \text{BEVAN POINT},\ X85,\ \text{ISOTOMIC CONJUGATE OF } X(9),$$
$$-\frac{1}{\left(l^2+r^2+8 r R+16 R^2\right)^2}\left(l^6+3 l^4 r^2+3 l^2 r^4+r^6+28 l^4 r R+16 l^2 r^3 R+20 r^5 R+28 l^4 R^2-24 l^2 r^2 R^2+156 r^4 R^2-192 l^2 r R^3+576 r^3 R^3-128 l^2 R^4+896 r^2 R^4-1024 R^6\right)\}$$

$$\{X40,\ \text{BEVAN POINT},\ X86,\ \text{CEVAPOINT OF INCENTER AND CENTROID},$$
$$-\frac{1}{\left(5 l^2+r^2+4 r R\right)^2}\left(9 l^6+19 l^4 r^2+11 l^2 r^4+r^6+84 l^4 r R+64 l^2 r^3 R+12 r^5 R-100 l^4 R^2+88 l^2 r^2 R^2+44 r^4 R^2-160 l^2 r R^3+32 r^3 R^3-64 r^2 R^4\right)\}$$

$$\{X40,\ \text{BEVAN POINT},\ X87,\ X(2)\text{-CROSS CONJUGATE OF } X(1),$$
$$\left(4 R^2\left(l^8+12 l^6 r^2+14 l^4 r^4-4 l^2 r^6-7 r^8-40 l^6 r R-216 l^4 r^3 R+264 l^2 r^5 R-72 r^7 R+464 l^4 r^2 R^2+32 l^2 r^4 R^2-176 r^6 R^2-1280 l^2 r^3 R^3+256 r^5 R^3+1024 r^4 R^4\right)\right)\Big/\left(l^4+2 l^2 r^2+r^4-20 l^2 r R+12 r^3 R+32 r^2 R^2\right)^2\}$$

$$\{X40,\ \text{BEVAN POINT},\ X88,\ \text{ISOGONAL CONJUGATE OF } X(44),$$
$$-\frac{R\left(2 l^4 r-6 l^2 r^3-4 l^4 R-75 l^2 r^2 R+45 r^4 R+120 l^2 r R^2+684 r^3 R^2-900 r^2 R^3\right)}{\left(l^2+3 r^2-15 r R\right)^2}\}$$

$$\{X40,\ \text{BEVAN POINT},\ X89,\ \text{ISOGONAL CONJUGATE OF } X(45),$$
$$-\frac{R\left(20 l^4 r-12 l^2 r^3-16 l^4 R+237 l^2 r^2 R-63 r^4 R-48 l^2 r R^2+468 r^3 R^2-36 r^2 R^3\right)}{\left(2 l^2-6 r^2+3 r R\right)^2}\}$$

$$\{X40,\ \text{BEVAN POINT},\ X90,\ X(3)\text{-CROSS CONJUGATE OF } X(1),\ \frac{4(2 r-R) R^2\left(-l^2 r+r^3+5 r^2 R+6 r R^2-R^3\right)}{\left(r^2+2 r R-R^2\right)^2}\}$$

$$\{X40,\ \text{BEVAN POINT},\ X91,\ \text{ISOGONAL CONJUGATE OF } X(47),$$
$$-\left(\left(l^6 r^2+3 l^4 r^4+3 l^2 r^6+r^8-2 l^6 r R+2 l^4 r^3 R-14 l^2 r^5 R+14 r^7 R+12 l^4 r^2 R^2-88 l^2 r^4 R^2+76 r^6 R^2+24 l^4 r R^3-136 l^2 r^3 R^3+208 r^5 R^3-4 l^4 R^4-100 l^2 r^2 R^4+304 r^4 R^4-40 l^2 r R^5+232 r^3 R^5+16 l^2 R^6+80 r^2 R^6-16 R^8\right)\Big/\left(l^2 r+r^3-l^2 R+3 r^2 R+2 r R^2+2 R^3\right)^2\right)\}$$

$$\{X40,\ \text{BEVAN POINT},\ X92,\ \text{CEVAPOINT OF INCENTER AND CLAWSON POINT},$$
$$-\frac{1}{\left(l^2+r^2-4 R^2\right)^2}\left(l^6+3 l^4 r^2+3 l^2 r^4+r^6+4 l^4 r R-16 l^2 r^3 R+12 r^5 R-12 l^4 R^2-72 l^2 r^2 R^2+52 r^4 R^2-32 l^2 r R^3+128 r^3 R^3+48 l^2 R^4+176 r^2 R^4+64 r R^5-64 R^6\right)\}$$

$$\{X40,\ \text{BEVAN POINT},\ X93,\ \text{ISOGONAL CONJUGATE OF } X(49),$$
$$-\Big(\big(l^{10}+5 l^8 r^2+10 l^6 r^4+10 l^4 r^6+5 l^2 r^8+r^{10}-20 l^8 r R-40 l^6 r^3 R+40 l^2 r^7 R+20 r^9 R-22 l^8 R^2+132 l^6 r^2 R^2-144 l^4 r^4 R^2+124 l^2 r^6 R^2+166 r^8 R^2+340 l^6 r R^3-572 l^4 r^3 R^3+332 l^2 r^5 R^3+732 r^7 R^3+172 l^6 R^4-1856 l^4 r^2 R^4+1404 l^2 r^4 R^4+1768 r^6 R^4-1932 l^4 r R^5+4336 l^2 r^3 R^5+1852 r^5 R^5-634 l^4 R^6+6824 l^2 r^2 R^6-1326 r^4 R^6+4628 l^2 r R^7-6404 r^3 R^7+1123 l^2 R^8-7697 r^2 R^8-4024 r R^9-784 R^{10}\big)\Big/\big(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-8 l^2 R^2+24 r^2 R^2+32 r R^3+13 R^4\big)^2\Big)\}$$

$$\{X40,\ \text{BEVAN POINT},\ X94,\ \text{ISOGONAL CONJUGATE OF } X(50),$$
$$-\Big(\big(l^{10}+5 l^8 r^2+10 l^6 r^4+10 l^4 r^6+5 l^2 r^8+r^{10}-20 l^8 r R-40 l^6 r^3 R+40 l^2 r^7 R+20 r^9 R-28 l^8 R^2+116 l^6 r^2 R^2-156 l^4 r^4 R^2+124 l^2 r^6 R^2+168 r^8 R^2+424 l^6 r R^3-560 l^4 r^3 R^3+296 l^2 r^5 R^3+768 r^7 R^3+258 l^6 R^4-1926 l^4 r^2 R^4+1102 l^2 r^4 R^4+2006 r^6 R^4-2736 l^4 r R^5+3928 l^2 r^3 R^5+2568 r^5 R^5-1224 l^4 R^6+8316 l^2 r^2 R^6-652 r^4 R^6+8280 l^2 r R^7-8160 r^3 R^7+2997 l^2 R^8-13455 r^2 R^8-10044 r R^9-2916 R^{10}\big)\Big/\big(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-12 l^2 R^2+28 r^2 R^2+48 r R^3+27 R^4\big)^2\Big)\}$$

$$\{X40,\ \text{BEVAN POINT},\ X95,\ \text{CEVAPOINT OF CENTROID AND CIRCUMCENTER},$$
$$-\Big(\big(l^{10}+21 l^8 r^2+58 l^6 r^4+58 l^4 r^6+21 l^2 r^8+r^{10}-20 l^8 r R-200 l^6 r^3 R+576 l^4 r^5 R+264 l^2 r^7 R+20 r^9 R-12 l^8 R^2+16 l^6 r^2 R^2-792 l^4 r^4 R^2+1136 l^2 r^6 R^2+164 r^8 R^2+192 l^6 r R^3+384 l^4 r^3 R^3+1920 l^2 r^5 R^3+704 r^7 R^3+48 l^6 R^4-1008 l^4 r^2 R^4+1360 l^2 r^4 R^4+1648 r^6 R^4-576 l^4 r R^5+1792 l^2 r^3 R^5+1856 r^5 R^5-64 l^4 R^6+2688 l^2 r^2 R^6+192 r^4 R^6+512 l^2 r R^7-1536 r^3 R^7-1024 r^2 R^8\big)\Big/\big(l^4+18 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-4 l^2 R^2+20 r^2 R^2+16 r R^3\big)^2\Big)\}$$

$$\{X40,\ \text{BEVAN POINT},\ X96,\ \text{ISOGONAL CONJUGATE OF } X(52),$$
$$\frac{1}{\big(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2-4 R^4\big)^2}\big(l^{10}-11 l^8 r^2-38 l^6 r^4-38 l^4 r^6-11 l^2 r^8+r^{10}-24 l^8 r R+232 l^6 r^3 R-344 l^4 r^5 R-72 l^2 r^7 R+16 r^9 R+184 l^6 r^2 R^2-296 l^4 r^4 R^2-120 l^2 r^6 R^2+104 r^8 R^2-528 l^4 r^3 R^3-160 l^2 r^5 R^3+368 r^7 R^3-24 l^6 R^4-88 l^4 r^2 R^4-616 l^2 r^4 R^4+856 r^6 R^4+320 l^4 r R^5-544 l^2 r^3 R^5+1568 r^5 R^5+128 l^4 R^6-992 l^2 r^2 R^6+2272 r^4 R^6-1024 l^2 r R^7+2368 r^3 R^7-304 l^2 R^8+2064 r^2 R^8+1152 r R^9+256 R^{10}\big)\}$$

$$\{X40,\ \text{BEVAN POINT},\ X97,\ \text{ISOGONAL CONJUGATE OF } X(53),$$
$$-\Big(\big(R\big(4 l^8 r-36 l^6 r^3+76 l^4 r^5-12 l^2 r^7-6 l^8 R+2 l^6 r^2 R+130 l^4 r^4 R-74 l^2 r^6 R-4 r^8 R+44 l^6 r R^2-32 l^4 r^3 R^2-44 l^2 r^5 R^2-64 r^7 R^2+77 l^6 R^3-529 l^4 r^2 R^3+699 l^2 r^4 R^3-439 r^6 R^3-676 l^4 r R^4+2328 l^2 r^3 R^4-1684 r^5 R^4-364 l^4 R^5+3320 l^2 r^2 R^5-3948 r^4 R^5+2400 l^2 r R^6-5792 r^3 R^6+752 l^2 R^7-5200 r^2 R^7-2624 r R^8-576 R^9\big)\big)\Big/\big(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-7 l^2 R^2+23 r^2 R^2+28 r R^3+12 R^4\big)^2\Big)\}$$

$$\left\{X40,\ \text{BEVAN POINT},\ X98,\ \text{TarryPoint},\ \frac{l^6+3 l^4 r^2+3 l^2 r^4+r^6-16 l^4 r R+24 l^2 r^3 R+8 r^5 R+16 r^4 R^2}{l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2}\right\}$$

$$\{X40,\ \text{BEVAN POINT},\ X99,\ \text{STEINER POINT},$$
$$-\Big(\big(l^6+3 l^4 r^2+3 l^2 r^4+r^6-12 l^4 r R-32 l^2 r^3 R+12 r^5 R-4 l^4 R^2+24 l^2 r^2 R^2+44 r^4 R^2+32 l^2 r R^3+32 r^3 R^3-64 r^2 R^4\big)\Big/\big(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\big)\Big)\}$$

$$\left\{X40,\ \text{BEVAN POINT},\ X100,\ \text{ANTICOMPLEMENT OF FEUERBACH POINT},\ -\frac{R\left(-l^2+3 r^2+4 r R+4 R^2\right)}{2 r-R}\right\}$$

$$\{X41,\ X(6)\text{-CEVA CONJUGATE OF } X(31),\ X42,\ \text{CROSSPOINT OF INCENTER AND SYMMEDIAN POINT},$$
$$-\Big(\big(4 r^2 R^2\big(l^8+24 l^6 r^2-34 l^4 r^4+8 l^2 r^6+r^8-12 l^6 r R-148 l^4 r^3 R+76 l^2 r^5 R+20 r^7 R-4 l^6 R^2-184 l^4 r^2 R^2+252 l^2 r^4 R^2+160 r^6 R^2+32 l^4 r R^3+416 l^2 r^3 R^3+640 r^5 R^3+448 l^2 r^2 R^4+1280 r^4 R^4+1024 r^3 R^5\big)\big)\Big/\big(\big(l^2+r^2-2 r R\big)^2\big(3 l^2 r-r^3+2 l^2 R-8 r^2 R-16 r R^2\big)^2\big)\Big)\}$$

$$\{X41,\ X(6)\text{-CEVA CONJUGATE OF } X(31),\ X43,\ X(6)\text{-CEVA CONJUGATE OF } X(1),$$
$$\left(4 r^2 R \left(3 l^8 r + 2 l^6 r^3 - 4 l^4 r^5 - 2 l^2 r^7 + r^9 + l^8 R - 69 l^6 r^2 R + 103 l^4 r^4 R - 63 l^2 r^6 R + 20 r^8 R - 24 l^6 r R^2 + 384 l^4 r^3 R^2 - 456 l^2 r^5 R^2 + 160 r^7 R^2 + 208 l^4 r^2 R^3 - 1136 l^2 r^4 R^3 + 640 r^6 R^3 - 768 l^2 r^3 R^4 + 1280 r^5 R^4 + 1024 r^4 R^5\right)\right) / \left(\left(l^2 + r^2 - 8 r R\right)^2 \left(3 l^2 r - r^3 + 2 l^2 R - 8 r^2 R - 16 r R^2\right)^2\right)\}$$

$$\{X41,\ X(6)\text{-CEVA CONJUGATE OF } X(31),\ X44,\ X(6)\text{-LINE CONJUGATE OF } X(1),$$
$$\left(4 l^4 r^2 R \left(6 l^4 r + 28 l^2 r^3 - 10 r^5 + 3 l^4 R - 66 l^2 r^2 R - 85 r^4 R - 36 l^2 r R^2 - 204 r^3 R^2 + 4 l^2 R^3 - 112 r^2 R^3 - 64 r R^4\right)\right) / \left(\left(l^2 - 3 r^2 - 12 r R\right)^2 \left(3 l^2 r - r^3 + 2 l^2 R - 8 r^2 R - 16 r R^2\right)^2\right)\}$$

$$\{X41,\ X(6)\text{-CEVA CONJUGATE OF } X(31),\ X45,\ X(9)\text{-BETH CONJUGATE OF } X(1),$$
$$-\left(\left(4 l^4 r^2 R \left(12 l^4 r - 88 l^2 r^3 + 28 r^5 + 9 l^4 R - 258 l^2 r^2 R + 325 r^4 R - 324 l^2 r R^2 + 1356 r^3 R^2 - 100 l^2 R^3 + 2416 r^2 R^3 + 1600 r R^4\right)\right) / \left(\left(l^2 + 3 r^2 + 12 r R\right)^2 \left(3 l^2 r - r^3 + 2 l^2 R - 8 r^2 R - 16 r R^2\right)^2\right)\right)\}$$

$$\{X41,\ X(6)\text{-CEVA CONJUGATE OF } X(31),\ X46,\ X(4)\text{-CEVA CONJUGATE OF } X(1),$$
$$-\left(\left(4 r^2 R \left(6 l^4 r^3 - 2 l^2 r^5 + 11 l^4 r^2 R - 17 l^2 r^4 R + 5 l^4 r R^2 - 46 l^2 r^3 R^2 + r^5 R^2 + 3 l^4 R^3 - 65 l^2 r^2 R^3 + 16 r^4 R^3 - 104 l^2 r R^4 + 96 r^3 R^4 - 16 l^2 R^5 + 256 r^2 R^5 + 256 r R^6\right)\right) / \left((r - R)^2 \left(-3 l^2 r + r^3 - 2 l^2 R + 8 r^2 R + 16 r R^2\right)^2\right)\right)\}$$

$$\{X41,\ X(6)\text{-CEVA CONJUGATE OF } X(31),\ X47,\ X(110)\text{-BETH CONJUGATE OF } X(34),$$
$$-\frac{1}{\left(l^2 - 3 r^2 - 6 r R - 2 R^2\right)^2 \left(3 l^2 r - r^3 + 2 l^2 R - 8 r^2 R - 16 r R^2\right)^2}$$
$$4 r^2 R^2 \left(l^8 + 4 l^6 r^2 + 6 l^4 r^4 + 4 l^2 r^6 + r^8 - 34 l^6 r R + 82 l^4 r^3 R + 10 l^2 r^5 R + 22 r^7 R - 12 l^6 R^2 + 192 l^4 r^2 R^2 - 172 l^2 r^4 R^2 + 200 r^6 R^2 + 292 l^4 r R^3 - 888 l^2 r^3 R^3 + 964 r^5 R^3 + 44 l^4 R^4 - 1412 l^2 r^2 R^4 + 2624 r^4 R^4 - 928 l^2 r R^5 + 3968 r^3 R^5 - 64 l^2 R^6 + 3072 r^2 R^6 + 1024 r R^7\right)\}$$

$$\{X41,\ X(6)\text{-CEVA CONJUGATE OF } X(31),\ X48,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(63),$$
$$-\frac{16 l^4 R^4 \left(l^4 + 14 l^2 r^2 - 3 r^4 - 20 l^2 r R - 20 r^3 R - 4 l^2 R^2 - 16 r^2 R^2 + 64 r R^3\right)}{\left(3 l^2 - r^2 - 6 r R - 8 R^2\right)^2 \left(3 l^2 r - r^3 + 2 l^2 R - 8 r^2 R - 16 r R^2\right)^2}\}$$

$$\{X41,\ X(6)\text{-CEVA CONJUGATE OF } X(31),\ X49,\ \text{CENTER OF SINE-TRIPLE-ANGLE CIRCLE},$$
$$-\frac{1}{\left(2 l^2 - 2 r^2 - 8 r R - 7 R^2\right)^2 \left(3 l^2 r - r^3 + 2 l^2 R - 8 r^2 R - 16 r R^2\right)^2}$$
$$R^2 \left(l^8 r^2 + 4 l^6 r^4 + 6 l^4 r^6 + 4 l^2 r^8 + r^{10} - 4 l^8 r R - 84 l^6 r^3 R + 60 l^4 r^5 R + 36 l^2 r^7 R + 24 r^9 R + 4 l^8 R^2 + 168 l^6 r^2 R^2 + 72 l^4 r^4 R^2 + 88 l^2 r^6 R^2 + 244 r^8 R^2 - 24 l^6 r R^3 - 448 l^4 r^3 R^3 + 72 l^2 r^5 R^3 + 1360 r^7 R^3 - 16 l^6 R^4 - 1269 l^4 r^2 R^4 + 634 l^2 r^4 R^4 + 4479 r^6 R^4 + 84 l^4 r R^5 + 2644 l^2 r^3 R^5 + 8688 r^5 R^5 - 4 l^4 R^6 + 3008 l^2 r^2 R^6 + 9120 r^4 R^6 + 64 l^2 r R^7 + 3840 r^3 R^7 - 256 r^2 R^8\right)\}$$

$$\{X41,\ X(6)\text{-CEVA CONJUGATE OF } X(31),\ X50,\ X(74)\text{-CEVA CONJUGATE OF } X(184),$$
$$-\left(\left(4 l^4 r^2 R^2 \left(l^8 + 4 l^6 r^2 + 6 l^4 r^4 + 4 l^2 r^6 + r^8 - 28 l^6 r R + 92 l^4 r^3 R + 12 l^2 r^5 R + 20 r^7 R - 10 l^6 R^2 + 98 l^4 r^2 R^2 - 174 l^2 r^4 R^2 + 166 r^6 R^2 + 240 l^4 r R^3 - 848 l^2 r^3 R^3 + 736 r^5 R^3 + 33 l^4 R^4 - 858 l^2 r^2 R^4 + 1829 r^4 R^4 - 660 l^2 r R^5 + 2380 r^3 R^5 - 36 l^2 R^6 + 1392 r^2 R^6 + 576 r R^7\right)\right) / \left(\left(3 l^2 r - r^3 + 2 l^2 R - 8 r^2 R - 16 r R^2\right)^2 \left(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 3 l^2 R^2 + 19 r^2 R^2 + 12 r R^3\right)^2\right)\right)\}$$

$$\{X41,\ X(6)\text{-CEVA CONJUGATE OF } X(31),\ X51,$$
$$\text{CENTROID OF ORTHIC TRIANGLE},\ -\frac{1}{36 R^2 \left(-3 l^2 r + r^3 - 2 l^2 R + 8 r^2 R + 16 r R^2\right)^2}$$
$$\left(9 l^8 r^2 + 156 l^6 r^4 - 98 l^4 r^6 + 12 l^2 r^8 + r^{10} + 12 l^8 r R + 92 l^6 r^3 R - 788 l^4 r^5 R + 180 l^2 r^7 R + 24 r^9 R + 4 l^8 R^2 - 116 l^6 r^2 R^2 - 2016 l^4 r^4 R^2 + 1100 l^2 r^6 R^2 + 244 r^8 R^2 - 96 l^6 r R^3 - 1648 l^4 r^3 R^3 + 3520 l^2 r^5 R^3 + 1360 r^7 R^3 - 16 l^6 R^4 - 224 l^4 r^2 R^4 + 6192 l^2 r^4 R^4 + 4480 r^6 R^4 + 128 l^4 r R^5 + 5504 l^2 r^3 R^5 + 8704 r^5 R^5 + 1792 l^2 r^2 R^6 + 9216 r^4 R^6 + 4096 r^3 R^7\right)\}$$

$$\left\{X41,\ X(6)\text{-CEVA CONJUGATE OF }X(31),\ X52,\ \text{ORTHOCENTER OF ORTHIC TRIANGLE},\ \frac{1}{4R^2\left(-3l^2r+r^3-2l^2R+8r^2R+16rR^2\right)^2}\right.$$
$$\left(9l^8r^2-132l^6r^4+94l^4r^6-20l^2r^8+r^{10}+12l^8rR-292l^6r^3R+876l^4r^5R-332l^2r^7R+24r^9R+4l^8R^2-316l^6r^2R^2+2704l^4r^4R^2-2172l^2r^6R^2+244r^8R^2-144l^6rR^3+3248l^4r^3R^3-7024l^2r^5R^3+1360r^7R^3-16l^6R^4+1828l^4r^2R^4-11496l^2r^4R^4+4484r^6R^4+368l^4rR^5-8784l^2r^3R^5+8768r^5R^5+16l^4R^6-2816l^2r^2R^6+9600r^4R^6-256l^2rR^7+5120r^3R^7+1024r^2R^8\right)\Big\}$$

$$\{X41,\ X(6)\text{-CEVA CONJUGATE OF }X(31),\ X53,\ \text{SYMMEDIAN POINT OF ORTHIC TRIANGLE},$$
$$\left(4l^4r^2\left(6l^8r^2-56l^6r^4+132l^4r^6-56l^2r^8+6r^{10}+4l^8rR-160l^6r^3R+808l^4r^5R-704l^2r^7R+116r^9R-l^8R^2-156l^6r^2R^2+1734l^4r^4R^2-3332l^2r^6R^2+923r^8R^2-4l^6rR^3+1636l^4r^3R^3-7356l^2r^5R^3+3868r^7R^3+12l^6R^4+608l^4r^2R^4-7652l^2r^4R^4+9016r^6R^4-224l^4rR^5-3232l^2r^3R^5+11136r^5R^5-48l^4R^6+128l^2r^2R^6+5680r^4R^6+960l^2rR^7-704r^3R^7+64l^2R^8-1792r^2R^8-1024rR^9\right)\Big/\left(\left(3l^2r-r^3+2l^2R-8r^2R-16rR^2\right)^2\left(l^4-6l^2r^2+r^4-8l^2rR+8r^3R-4l^2R^2+20r^2R^2+16rR^3\right)^2\right)\Big\}$$

$$\left\{X41,\ X(6)\text{-CEVA CONJUGATE OF }X(31),\ X54,\ \text{KosnitaPoint},\ -\frac{1}{\left(2l^2-2r^2-8rR-5R^2\right)^2\left(3l^2r-r^3+2l^2R-8r^2R-16rR^2\right)^2}\right.$$
$$R^2\left(4l^8r^2+12l^6r^4+12l^4r^6+4l^2r^8-8l^8rR-120l^6r^3R+72l^4r^5R+56l^2r^7R+215l^6r^2R^2-19l^4r^4R^2+341l^2r^6R^2-r^8R^2+64l^6rR^3-796l^4r^3R^3+1264l^2r^5R^3-20r^7R^3+4l^6R^4-1620l^4r^2R^4+3156l^2r^4R^4-164r^6R^4-208l^4rR^5+4784l^2r^3R^5-704r^5R^5-16l^4R^6+3264l^2r^2R^6-1664r^4R^6+256l^2rR^7-2048r^3R^7-1024r^2R^8\right)\Big\}$$

$$\{X41,\ X(6)\text{-CEVA CONJUGATE OF }X(31),\ X55,\ \text{INSIMILICENTER(CIRCUMCIRCLE, INCIRCLE)},$$
$$-\left(\left(r^2R^2\left(-11l^4r^2+6l^2r^4+r^6-8l^4rR+44l^2r^3R+20r^5R+60l^2r^2R^2+160r^4R^2-96l^2rR^3+640r^3R^3-64l^2R^4+1280r^2R^4+1024rR^5\right)\right)\Big/\left((r+R)^2\left(-3l^2r+r^3-2l^2R+8r^2R+16rR^2\right)^2\right)\right)\Big\}$$

$$\left\{X41,\ X(6)\text{-CEVA CONJUGATE OF }X(31),\ X56,\ \text{EXSIMILICENTER(CIRCUMCIRCLE, INCIRCLE)},\ \frac{r^2R^2(r+4R)^2\left(-l^4-14l^2r^2+3r^4+20l^2rR+20r^3R+4l^2R^2+16r^2R^2-64rR^3\right)}{(r-R)^2\left(-3l^2r+r^3-2l^2R+8r^2R+16rR^2\right)^2}\right\}$$

$$\{X41,\ X(6)\text{-CEVA CONJUGATE OF }X(31),\ X57,\ \text{ISOGONAL CONJUGATE OF }X(9),$$
$$-\left(\left(4r^2R\left(6l^4r^3-2l^2r^5+20l^4r^2R-23l^2r^4R+r^6R+24l^4rR^2-112l^2r^3R^2+20r^5R^2+16l^4R^3-308l^2r^2R^3+160r^4R^3-416l^2rR^4+640r^3R^4-64l^2R^5+1280r^2R^5+1024rR^6\right)\right)\Big/\left((r-2R)^2\left(-3l^2r+r^3-2l^2R+8r^2R+16rR^2\right)^2\right)\right)\Big\}$$

$$\{X41,\ X(6)\text{-CEVA CONJUGATE OF }X(31),\ X58,\ \text{ISOGONAL CONJUGATE OF }X(10),$$
$$-\left(\left(4r^2R^2\left(l^8+10l^6r^2+16l^4r^4+6l^2r^6-r^8-20l^6rR+64l^4r^3R+36l^2r^5R-16r^7R-4l^6R^2-20l^4r^2R^2-96r^6R^2+64l^4rR^3-192l^2r^3R^3-256r^5R^3-256r^4R^4\right)\right)\Big/\left(\left(l^2-3r^2-4rR\right)^2\left(3l^2r-r^3+2l^2R-8r^2R-16rR^2\right)^2\right)\right)\Big\}$$

$$\{X41,\ X(6)\text{-CEVA CONJUGATE OF }X(31),\ X59,\ \text{ISOGONAL CONJUGATE OF }X(11),$$
$$\left(r^2R^2\left(-2l^8r-6l^6r^3-6l^4r^5-2l^2r^7+8l^8R+81l^6r^2R-37l^4r^4R-45l^2r^6R+r^8R-288l^6rR^2+196l^4r^3R^2-448l^2r^5R^2+28r^7R^2-132l^6R^3+1848l^4r^2R^3-2532l^2r^4R^3+336r^6R^3+3584l^4rR^4-8512l^2r^3R^4+2240r^5R^4+640l^4R^5-16000l^2r^2R^5+8960r^4R^5-13312l^2rR^6+21504r^3R^6-1024l^2R^7+28672r^2R^7+16384rR^8\right)\right)\Big/\left((2r-R)\left(-l^2+r^2+5rR+4R^2\right)^2\left(-3l^2r+r^3-2l^2R+8r^2R+16rR^2\right)^2\right)\Big\}$$

$$\{X41,\ X(6)\text{-CEVA CONJUGATE OF } X(31),\ X60,\ \text{ISOGONAL CONJUGATE OF } X(12),$$
$$-\Big(\Big(r^2 R^2 \big(4 l^8 r^2 + 12 l^6 r^4 + 12 l^4 r^6 + 4 l^2 r^8 + 2 l^8 r R - 72 l^6 r^3 R + 76 l^4 r^5 R + 24 l^2 r^7 R + 2 r^9 R - 59 l^6 r^2 R^2 + 175 l^4 r^4 R^2 - 49 l^2 r^6 R^2 + 37 r^8 R^2 - 16 l^6 r R^3 + 476 l^4 r^3 R^3 - 608 l^2 r^5 R^3 + 276 r^7 R^3 - 4 l^6 R^4 + 344 l^4 r^2 R^4 - 1524 l^2 r^4 R^4 + 1056 r^6 R^4 + 96 l^4 r R^5 - 1696 l^2 r^3 R^5 + 2176 r^5 R^5 - 576 l^2 r^2 R^6 + 2304 r^4 R^6 + 1024 r^3 R^7\big)\Big) \Big/ \Big(\big(3 l^2 r - r^3 + 2 l^2 R - 8 r^2 R - 16 r R^2\big)^2 \big(2 l^2 r - 2 r^3 + l^2 R - 7 r^2 R - 7 r R^2\big)^2\Big)\Big)\Big\}$$

$$\{X41,\ X(6)\text{-CEVA CONJUGATE OF } X(31),\ X61,\ \text{ISOGONAL CONJUGATE OF } X(17),$$
$$-\Big(\Big(12 l^2 r^2 \big(\sqrt{3}\, l - r - 4 R\big) R^2 \big(\sqrt{3}\, l^5 + 5 l^4 r + 14 \sqrt{3}\, l^3 r^2 - 10 l^2 r^3 - 3 \sqrt{3}\, l r^4 + r^5 + 4 l^4 R - 16 \sqrt{3}\, l^3 r R - 56 l^2 r^2 R - 24 \sqrt{3}\, l r^3 R + 12 r^4 R - 64 l^2 r R^2 - 48 \sqrt{3}\, l r^2 R^2 + 48 r^3 R^2 + 64 r^2 R^3\big)\Big) \Big/ \Big(\big(3 l^2 + 2 \sqrt{3}\, l r - 3 r^2 - 12 r R\big)^2 \big(3 l^2 r - r^3 + 2 l^2 R - 8 r^2 R - 16 r R^2\big)^2\Big)\Big)\Big\}$$

$$\{X41,\ X(6)\text{-CEVA CONJUGATE OF } X(31),\ X62,\ \text{ISOGONAL CONJUGATE OF } X(18),$$
$$-\Big(\Big(12 l^2 r^2 R^2 \big(\sqrt{3}\, l + r + 4 R\big) \big(\sqrt{3}\, l^5 - 5 l^4 r + 14 \sqrt{3}\, l^3 r^2 + 10 l^2 r^3 - 3 \sqrt{3}\, l r^4 - r^5 - 4 l^4 R - 16 \sqrt{3}\, l^3 r R + 56 l^2 r^2 R - 24 \sqrt{3}\, l r^3 R - 12 r^4 R + 64 l^2 r R^2 - 48 \sqrt{3}\, l r^2 R^2 - 48 r^3 R^2 - 64 r^2 R^3\big)\Big) \Big/ \Big(\big(3 l^2 - 2 \sqrt{3}\, l r - 3 r^2 - 12 r R\big)^2 \big(3 l^2 r - r^3 + 2 l^2 R - 8 r^2 R - 16 r R^2\big)^2\Big)\Big)\Big\}$$

$$\{X41,\ X(6)\text{-CEVA CONJUGATE OF } X(31),\ X63,\ \text{ISOGONAL CONJUGATE OF } X(19),$$
$$-\Big(\Big(R \big(-12 l^6 r^3 + 16 l^4 r^5 - 4 l^2 r^7 - 23 l^6 r^2 R + 127 l^4 r^4 R - 57 l^2 r^6 R + r^8 R - 16 l^6 r R^2 + 364 l^4 r^3 R^2 - 336 l^2 r^5 R^2 + 20 r^7 R^2 - 4 l^6 R^3 + 328 l^4 r^2 R^3 - 1012 l^2 r^4 R^3 + 160 r^6 R^3 + 96 l^4 r R^4 - 1440 l^2 r^3 R^4 + 640 r^5 R^4 - 576 l^2 r^2 R^5 + 1280 r^4 R^5 + 1024 r^3 R^6\big)\Big) \Big/ \Big((r + R)^2 \big(-3 l^2 r + r^3 - 2 l^2 R + 8 r^2 R + 16 r R^2\big)^2\Big)\Big)\Big\}$$

$$\{X41,\ X(6)\text{-CEVA CONJUGATE OF } X(31),\ X64,\ \text{ISOGONAL CONJUGATE OF } X(20),$$
$$\frac{1}{(l - r - 2 R)^2 (l + r + 2 R)^2 \big(3 l^2 r - r^3 + 2 l^2 R - 8 r^2 R - 16 r R^2\big)^2}$$
$$4 R^2 \big(20 l^8 r^2 - 48 l^6 r^4 + 51 l^4 r^6 - 22 l^2 r^8 + 3 r^{10} + 32 l^8 r R - 372 l^6 r^3 R + 636 l^4 r^5 R - 392 l^2 r^7 R + 72 r^9 R + 12 l^8 R^2 - 848 l^6 r^2 R^2 + 3112 l^4 r^4 R^2 - 2924 l^2 r^6 R^2 + 748 r^8 R^2 - 592 l^6 r R^3 + 7264 l^4 r^3 R^3 - 11\,776 l^2 r^5 R^3 + 4400 r^7 R^3 - 112 l^6 R^4 + 7776 l^4 r^2 R^4 - 27\,312 l^2 r^4 R^4 + 16\,064 r^6 R^4 + 2944 l^4 r R^5 - 35\,456 l^2 r^3 R^5 + 37\,376 r^5 R^5 + 256 l^4 R^6 - 22\,272 l^2 r^2 R^6 + 54\,272 r^4 R^6 - 4096 l^2 r R^7 + 45\,056 r^3 R^7 + 16\,384 r^2 R^8\big)\Big\}$$

$$\{X41,\ X(6)\text{-CEVA CONJUGATE OF } X(31),\ X65,\ \text{ORTHOCENTER OF THE INTOUCH TRIANGLE},$$
$$-\Big(\Big(r^2 \big(18 l^4 r^3 - 12 l^2 r^5 + 2 r^7 + 45 l^4 r^2 R - 126 l^2 r^4 R + 37 r^6 R + 40 l^4 r R^2 - 460 l^2 r^3 R^2 + 276 r^5 R^2 + 16 l^4 R^3 - 708 l^2 r^2 R^3 + 1056 r^4 R^3 - 480 l^2 r R^4 + 2176 r^3 R^4 - 64 l^2 R^5 + 2304 r^2 R^5 + 1024 r R^6\big)\Big) \Big/ \Big(R \big(-3 l^2 r + r^3 - 2 l^2 R + 8 r^2 R + 16 r R^2\big)^2\Big)\Big)\Big\}$$

$$\{X41,\ X(6)\text{-CEVA CONJUGATE OF } X(31),\ X66,\ \text{ISOGONAL CONJUGATE OF } X(22),$$
$$-\Big(\Big(6 l^{14} r^2 - 80 l^{12} r^4 + 254 l^{10} r^6 - 352 l^8 r^8 + 242 l^6 r^{10} - 80 l^4 r^{12} + 10 l^2 r^{14} + 4 l^{14} r R - 248 l^{12} r^3 R + 1836 l^{10} r^5 R - 4144 l^8 r^7 R + 4028 l^6 r^9 R - 1752 l^4 r^{11} R + 276 l^2 r^{13} R - 199 l^{12} r^2 R^2 + 4434 l^{10} r^4 R^2 - 18\,801 l^8 r^6 R^2 + 27\,676 l^6 r^8 R^2 - 16\,457 l^4 r^{10} R^2 + 3346 l^2 r^{12} R^2 + r^{14} R^2 - 28 l^{12} r R^3 + 4132 l^{10} r^3 R^3 - 40\,968 l^8 r^5 R^3 + 100\,888 l^6 r^7 R^3 - 86\,396 l^4 r^9 R^3 + 23\,364 l^2 r^{11} R^3 + 32 r^{13} R^3 + 4 l^{12} R^4 + 1196 l^{10} r^2 R^4 - 43\,220 l^8 r^4 R^4 + 208\,184 l^6 r^6 R^4 - 276\,468 l^4 r^8 R^4 + 103\,452 l^2 r^{10} R^4 + 452 r^{12} R^4 - 48 l^{10} r R^5 - 18\,960 l^8 r^3 R^5 + 238\,752 l^6 r^5 R^5 - 550\,496 l^4 r^7 R^5 + 300\,944 l^2 r^9 R^5 + 3696 r^{11} R^5 - 16 l^{10} R^6 - 1616 l^8 r^2 R^6 + 136\,576 l^6 r^4 R^6 - 664\,656 l^4 r^6 R^6 + 574\,896 l^2 r^8 R^6 + 19\,264 r^{10} R^6 + 320 l^8 r R^7 + 27\,840 l^6 r^3 R^7 - 447\,104 l^4 r^5 R^7 + 696\,576 l^2 r^7 R^7 + 66\,304 r^9 R^7 - 576 l^6 r^2 R^8 - 135\,424 l^4 r^4 R^8 + 491\,008 l^2 r^6 R^8 + 150\,528 r^8 R^8 - 8192 l^4 r^3 R^9 + 163\,840 l^2 r^5 R^9 + 217\,088 r^7 R^9 + 12\,288 l^2 r^4 R^{10} + 180\,224 r^6 R^{10} + 65\,536 r^5 R^{11}\Big) \Big/ \Big((l - r - 2 R)^2 (l + r + 2 R)^2 \big(l^2 - r^2 - 4 r R\big)^2 \big(3 l^2 r - r^3 + 2 l^2 R - 8 r^2 R - 16 r R^2\big)^2\Big)\Big)\Big\}$$

$$\{X41,\ X(6)\text{-CEVA CONJUGATE OF } X(31),\ X67,\ \text{ISOGONAL CONJUGATE OF } X(23),$$
$$-\Big(\big(3 l^{12} r^2 - 142 l^{10} r^4 + 377 l^8 r^6 - 356 l^6 r^8 + 133 l^4 r^{10} - 14 l^2 r^{12} - r^{14} - 4 l^{12} r R - 244 l^{10} r^3 R + 2408 l^8 r^5 R - 4056 l^6 r^7 R + 2236 l^4 r^9 R - 308 l^2 r^{11} R - 32 r^{13} R - 4 l^{12} R^2 + 8 l^{10} r^2 R^2 + 4700 l^8 r^4 R^2 - 17496 l^6 r^6 R^2 + 15340 l^4 r^8 R^2 - 2864 l^2 r^{10} R^2 - 452 r^{12} R^2 + 120 l^{10} r R^3 + 2384 l^8 r^3 R^3 - 34768 l^6 r^5 R^3 + 55072 l^4 r^7 R^3 - 14632 l^2 r^9 R^3 - 3696 r^{11} R^3 + 16 l^{10} R^4 - 628 l^8 r^2 R^4 - 30072 l^6 r^4 R^4 + 109884 l^4 r^6 R^4 - 44752 l^2 r^8 R^4 - 19264 r^{10} R^4 - 352 l^8 r R^5 - 6960 l^6 r^3 R^5 + 118192 l^4 r^5 R^5 - 83968 l^2 r^7 R^5 - 66304 r^9 R^5 + 1168 l^6 r^2 R^6 + 58944 l^4 r^4 R^6 - 95744 l^2 r^6 R^6 - 150528 r^8 R^6 + 7424 l^4 r^3 R^7 - 63488 l^2 r^5 R^7 - 217088 r^7 R^7 - 20480 l^2 r^4 R^8 - 180224 r^6 R^8 - 65536 r^5 R^9\big) \Big/ \big((l^2 - r^2 - 4 r R)^2 (2 l^2 - 2 r^2 - 8 r R - 9 R^2) (3 l^2 r - r^3 + 2 l^2 R - 8 r^2 R - 16 r R^2)^2\big)\Big)\}$$

$$\{X41,\ X(6)\text{-CEVA CONJUGATE OF } X(31),\ X68,\ \text{PRASOLOV POINT},$$
$$-\frac{1}{(l - r - 2 R)^2 (l + r + 2 R)^2 (3 l^2 r - r^3 + 2 l^2 R - 8 r^2 R - 16 r R^2)^2}$$
$$\big(6 l^{10} r^2 - 68 l^8 r^4 + 112 l^6 r^6 - 60 l^4 r^8 + 10 l^2 r^{10} + 4 l^{10} r R - 192 l^8 r^3 R + 856 l^6 r^5 R - 800 l^4 r^7 R + 196 l^2 r^9 R - 185 l^8 r^2 R^2 + 2412 l^6 r^4 R^2 - 4286 l^4 r^6 R^2 + 1628 l^2 r^8 R^2 - r^{10} R^2 - 52 l^8 r R^3 + 2876 l^6 r^3 R^3 - 11780 l^4 r^5 R^3 + 7476 l^2 r^7 R^3 - 24 r^9 R^3 - 4 l^8 R^4 + 1484 l^6 r^2 R^4 - 17408 l^4 r^4 R^4 + 20732 l^2 r^6 R^4 - 244 r^8 R^4 + 272 l^6 r R^5 - 13072 l^4 r^3 R^5 + 35408 l^2 r^5 R^5 - 1360 r^7 R^5 + 16 l^6 R^6 - 4468 l^4 r^2 R^6 + 35928 l^2 r^4 R^6 - 4484 r^6 R^6 - 496 l^4 r R^7 + 19408 l^2 r^3 R^7 - 8768 r^5 R^7 - 16 l^4 R^8 + 4608 l^2 r^2 R^8 - 9600 r^4 R^8 + 256 l^2 r R^9 - 5120 r^3 R^9 - 1024 r^2 R^{10}\big)\}$$

$$\{X41,\ X(6)\text{-CEVA CONJUGATE OF } X(31),\ X69,\ \text{SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},$$
$$\frac{1}{(l^2 - r^2 - 4 r R)^2 (3 l^2 r - r^3 + 2 l^2 R - 8 r^2 R - 16 r R^2)^2}$$
$$\big(3 l^{10} r^2 + 71 l^8 r^4 - 126 l^6 r^6 + 58 l^4 r^8 - 5 l^2 r^{10} - r^{12} + 8 l^{10} r R + 44 l^8 r^3 R - 760 l^6 r^5 R + 688 l^4 r^7 R - 80 l^2 r^9 R - 28 r^{11} R + 4 l^{10} R^2 - 128 l^8 r^2 R^2 - 1416 l^6 r^4 R^2 + 3088 l^4 r^6 R^2 - 508 l^2 r^8 R^2 - 336 r^{10} R^2 - 96 l^8 r R^3 - 256 l^6 r^3 R^3 + 6624 l^4 r^5 R^3 - 1728 l^2 r^7 R^3 - 2240 r^9 R^3 + 448 l^6 r^2 R^4 + 6656 l^4 r^4 R^4 - 3968 l^2 r^6 R^4 - 8960 r^8 R^4 + 1536 l^4 r^3 R^5 - 7168 l^2 r^5 R^5 - 21504 r^7 R^5 - 7168 l^2 r^4 R^6 - 28672 r^6 R^6 - 16384 r^5 R^7\big)\}$$

$$\{X41,\ X(6)\text{-CEVA CONJUGATE OF } X(31),\ X70,\ \text{ISOGONAL CONJUGATE OF } X(26),$$
$$-\Big(\big(6 l^{14} r^2 - 80 l^{12} r^4 + 254 l^{10} r^6 - 352 l^8 r^8 + 242 l^6 r^{10} - 80 l^4 r^{12} + 10 l^2 r^{14} + 4 l^{14} r R - 248 l^{12} r^3 R + 1836 l^{10} r^5 R - 4144 l^8 r^7 R + 4028 l^6 r^9 R - 1752 l^4 r^{11} R + 276 l^2 r^{13} R - 232 l^{12} r^2 R^2 + 4736 l^{10} r^4 R^2 - 19504 l^8 r^6 R^2 + 28352 l^6 r^8 R^2 - 16744 l^4 r^{10} R^2 + 3392 l^2 r^{12} R^2 - 56 l^{12} r R^3 + 5208 l^{10} r^3 R^3 - 46480 l^8 r^5 R^3 + 109456 l^6 r^7 R^3 - 91576 l^4 r^9 R^3 + 24472 l^2 r^{11} R^3 + 2341 l^{10} r^2 R^4 - 58597 l^8 r^4 R^4 + 251282 l^6 r^6 R^4 - 315674 l^4 r^8 R^4 + 115017 l^2 r^{10} R^4 - r^{12} R^4 + 308 l^{10} r R^5 - 37268 l^8 r^3 R^5 + 347504 l^6 r^5 R^5 - 711536 l^4 r^7 R^5 + 369340 l^2 r^9 R^5 - 28 r^{11} R^5 + 4 l^{10} R^6 - 10414 l^8 r^2 R^6 + 279616 l^6 r^4 R^6 - 1052188 l^4 r^6 R^6 + 826268 l^2 r^8 R^6 - 342 r^{10} R^6 - 912 l^8 r R^7 + 119888 l^6 r^3 R^7 - 996032 l^4 r^5 R^7 + 1288400 l^2 r^7 R^7 - 2384 r^9 R^7 - 24 l^8 R^8 + 23311 l^6 r^2 R^8 - 570115 l^4 r^4 R^8 + 1377325 l^2 r^6 R^8 - 10409 r^8 R^8 + 1504 l^6 r R^9 - 177788 l^4 r^3 R^9 + 973328 l^2 r^5 R^9 - 29364 r^7 R^9 + 36 l^6 R^{10} - 25364 l^4 r^2 R^{10} + 425652 l^2 r^4 R^{10} - 53156 r^6 R^{10} - 1104 l^4 r R^{11} + 102320 l^2 r^3 R^{11} - 59072 r^5 R^{11} - 16 l^4 R^{12} + 10944 l^2 r^2 R^{12} - 36480 r^4 R^{12} + 256 l^2 r R^{13} - 10240 r^3 R^{13} - 1024 r^2 R^{14}\big) \Big/ \big((3 l^2 r - r^3 + 2 l^2 R - 8 r^2 R - 16 r R^2)^2 (l^4 - 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 6 l^2 R^2 + 22 r^2 R^2 + 24 r R^3 + 7 R^4)^2\big)\Big)\}$$

$$\{X41,\ X(6)\text{-CEVA CONJUGATE OF } X(31),\ X71,\ \text{ISOGONAL CONJUGATE OF } X(27),$$
$$\big(16 l^4 R^2 (5 l^4 r^2 - 10 l^2 r^4 + r^6 + 8 l^4 r R - 60 l^2 r^3 R + 12 r^5 R + 3 l^4 R^2 - 110 l^2 r^2 R^2 + 51 r^4 R^2 - 44 l^2 r R^3 + 84 r^3 R^3 + 4 l^2 R^4 + 16 r^2 R^4 - 64 r R^5)\big) \Big/ \big((l^2 + r^2 + 6 r R + 8 R^2)^2 (3 l^2 r - r^3 + 2 l^2 R - 8 r^2 R - 16 r R^2)^2\big)\}$$

$$\{X41,\ X(6)\text{-CEVA CONJUGATE OF } X(31),\ X72,\ \text{ISOGONAL CONJUGATE OF } X(28),$$
$$-\Big(\big(-9 l^6 r^3 + 15 l^4 r^5 - 7 l^2 r^7 + r^9 - 15 l^6 r^2 R + 110 l^4 r^4 R - 95 l^2 r^6 R + 20 r^8 R - 12 l^6 r R^2 + 268 l^4 r^3 R^2 - 492 l^2 r^5 R^2 + 164 r^7 R^2 - 4 l^6 R^3 + 260 l^4 r^2 R^3 - 1204 l^2 r^4 R^3 + 704 r^6 R^3 + 96 l^4 r R^4 - 1376 l^2 r^3 R^4 + 1664 r^5 R^4 - 576 l^2 r^2 R^5 + 2048 r^4 R^5 + 1024 r^3 R^6\big) \Big/ \big(R (-3 l^2 r + r^3 - 2 l^2 R + 8 r^2 R + 16 r R^2)^2\big)\Big)\}$$

$$\left\{X41,\ X(6)\text{-CEVA CONJUGATE OF } X(31),\ X73,\ \text{CROSSPOINT OF INCENTER AND CIRCUMCENTER},\ -\frac{4 r^2 R^2 \left(l^2-r^2-6 r R-8 R^2\right)^2 \left(l^4+14 l^2 r^2-3 r^4-20 l^2 r R-20 r^3 R-4 l^2 R^2-16 r^2 R^2+64 r R^3\right)}{\left(l^2+r^2-2 r R-4 R^2\right)^2 \left(3 l^2 r-r^3+2 l^2 R-8 r^2 R-16 r R^2\right)^2}\right\}$$

$$\left\{X41,\ X(6)\text{-CEVA CONJUGATE OF } X(31),\ X74,\ \text{ISOGONAL CONJUGATE OF EULER INFINITY POINT},\ \frac{1}{\left(2 l^2-2 r^2-8 r R-9 R^2\right)\left(3 l^2 r-r^3+2 l^2 R-8 r^2 R-16 r R^2\right)^2} R^2 \left(55 l^6 r^2-123 l^4 r^4+69 l^2 r^6-9 r^8+96 l^6 r R-892 l^4 r^3 R+912 l^2 r^5 R-180 r^7 R+36 l^6 R^2-1876 l^4 r^2 R^2+4500 l^2 r^4 R^2-1476 r^6 R^2-1104 l^4 r R^3+10032 l^2 r^3 R^3-6336 r^5 R^3-144 l^4 R^4+9408 l^2 r^2 R^4-14976 r^4 R^4+2304 l^2 r R^5-18432 r^3 R^5-9216 r^2 R^6\right)\right\}$$

$$\left\{X41,\ X(6)\text{-CEVA CONJUGATE OF } X(31),\ X75,\ \text{ISOTOMIC CONJUGATE OF INCENTER},\ \frac{1}{\left(l^2+r^2+4 r R\right)^2 \left(3 l^2 r-r^3+2 l^2 R-8 r^2 R-16 r R^2\right)^2} \left(3 l^{10} r^2+11 l^8 r^4+14 l^6 r^6+6 l^4 r^8-l^2 r^{10}-r^{12}+8 l^{10} r R-68 l^8 r^3 R+296 l^6 r^5 R-96 l^4 r^7 R+16 l^2 r^9 R-28 r^{11} R+4 l^{10} R^2-176 l^8 r^2 R^2+952 l^6 r^4 R^2-1408 l^4 r^6 R^2+452 l^2 r^8 R^2-336 r^{10} R^2-96 l^8 r R^3+1344 l^6 r^3 R^3-5344 l^4 r^5 R^3+3392 l^2 r^7 R^3-2240 r^9 R^3+704 l^6 r^2 R^4-7424 l^4 r^4 R^4+11392 l^2 r^6 R^4-8960 r^8 R^4-3584 l^4 r^3 R^5+17408 l^2 r^5 R^5-21504 r^7 R^5+9216 l^2 r^4 R^6-28672 r^6 R^6-16384 r^5 R^7\right)\right\}$$

$$\left\{X41,\ X(6)\text{-CEVA CONJUGATE OF } X(31),\ X76,\ \text{3rd BROCARD POINT},\ \left(3 l^{14} r^2+17 l^{12} r^4+39 l^{10} r^6+45 l^8 r^8+25 l^6 r^{10}+3 l^4 r^{12}-3 l^2 r^{14}-r^{16}+8 l^{14} r R-28 l^{12} r^3 R-104 l^{10} r^5 R-12 l^8 r^7 R+152 l^6 r^9 R+76 l^4 r^{11} R-56 l^2 r^{13} R-36 r^{15} R+4 l^{14} R^2-200 l^{12} r^2 R^2-340 l^{10} r^4 R^2+1872 l^8 r^6 R^2-1380 l^6 r^8 R^2+952 l^4 r^{10} R^2-332 l^2 r^{12} R^2-576 r^{14} R^2-128 l^{12} r R^3+1248 l^{10} r^3 R^3+6016 l^8 r^5 R^3-14144 l^6 r^7 R^3+7168 l^4 r^9 R^3+96 l^2 r^{11} R^3-5376 r^{13} R^3+1280 l^{10} r^2 R^4+1664 l^8 r^4 R^4-40768 l^6 r^6 R^4+32768 l^4 r^8 R^4+9920 l^2 r^{10} R^4-32256 r^{12} R^4-3584 l^8 r^3 R^5-41472 l^6 r^5 R^5+87040 l^4 r^7 R^5+48128 l^2 r^9 R^5-129024 r^{11} R^5-12288 l^6 r^4 R^6+120832 l^4 r^6 R^6+101376 l^2 r^8 R^6-344064 r^{10} R^6+65536 l^4 r^5 R^7+90112 l^2 r^7 R^7-589824 r^9 R^7+16384 l^2 r^6 R^8-589824 r^8 R^8-262144 r^7 R^9\right) \Big/ \left(\left(3 l^2 r-r^3+2 l^2 R-8 r^2 R-16 r R^2\right)^2 \left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)^2\right)\right\}$$

$$\left\{X41,\ X(6)\text{-CEVA CONJUGATE OF } X(31),\ X77,\ \text{ISOGONAL CONJUGATE OF } X(33),\ -\frac{1}{\left(l^2-r R-4 R^2\right)^2 \left(3 l^2 r-r^3+2 l^2 R-8 r^2 R-16 r R^2\right)^2} r^2 R \left(6 l^8 r-14 l^6 r^3+10 l^4 r^5-2 l^2 r^7+8 l^8 R-107 l^6 r^2 R+143 l^4 r^4 R-45 l^2 r^6 R+r^8 R-312 l^6 r R^2+860 l^4 r^3 R^2-448 l^2 r^5 R^2+28 r^7 R^2-132 l^6 R^3+2616 l^4 r^2 R^3-2532 l^2 r^4 R^3+336 r^6 R^3+3456 l^4 r R^4-8512 l^2 r^3 R^4+2240 r^5 R^4+640 l^4 R^5-16000 l^2 r^2 R^5+8960 r^4 R^5-13312 l^2 r R^6+21504 r^3 R^6-1024 l^2 R^7+28672 r^2 R^7+16384 r R^8\right)\right\}$$

$$\left\{X41,\ X(6)\text{-CEVA CONJUGATE OF } X(31),\ X78,\ \text{ISOGONAL CONJUGATE OF } X(34),\ -\frac{R \left(-l^2+r^2+4 r R\right)^2 \left(-6 l^2 r^3+2 r^5-7 l^2 r^2 R+21 r^4 R-8 l^2 r R^2+76 r^3 R^2-4 l^2 R^3+112 r^2 R^3+64 r R^4\right)}{(r-R)^2 \left(-3 l^2 r+r^3-2 l^2 R+8 r^2 R+16 r R^2\right)^2}\right\}$$

$$\left\{X41,\ X(6)\text{-CEVA CONJUGATE OF } X(31),\ X79,\ \text{ISOGONAL CONJUGATE OF } X(35),\ -\left(\left(4 r^2 \left(24 l^6 r^2-32 l^4 r^4+8 l^2 r^6+37 l^6 r R-237 l^4 r^3 R+111 l^2 r^5 R+r^7 R+14 l^6 R^2-526 l^4 r^2 R^2+570 l^2 r^4 R^2+22 r^6 R^2-309 l^4 r R^3+1268 l^2 r^3 R^3+201 r^5 R^3-21 l^4 R^4+951 l^2 r^2 R^4+976 r^4 R^4-264 l^2 r R^5+2656 r^3 R^5-144 l^2 R^6+3840 r^2 R^6+2304 r R^7\right)\right) \Big/ \left((2 r+3 R)^2 \left(-3 l^2 r+r^3-2 l^2 R+8 r^2 R+16 r R^2\right)^2\right)\right)\right\}$$

$$\{X41,\ X(6)\text{-CEVA CONJUGATE OF }X(31),\ X80,\ \text{REFLECTION OF INCENTER IN FEUERBACH POINT},$$
$$\left(4 r^2 \left(-3 l^6 r+19 l^4 r^3-9 l^2 r^5+r^7-2 l^6 R+62 l^4 r^2 R-94 l^2 r^4 R+18 r^6 R+57 l^4 r R^2-334 l^2 r^3 R^2+129 r^5 R^2+11 l^4 R^3-465 l^2 r^2 R^3+464 r^4 R^3-232 l^2 r R^4+864 r^3 R^4-16 l^2 R^5+768 r^2 R^5+256 r R^6\right)\right)\Big/\left((2 r-R)\left(-3 l^2 r+r^3-2 l^2 R+8 r^2 R+16 r R^2\right)^2\right)\}$$

$$\{X41,\ X(6)\text{-CEVA CONJUGATE OF }X(31),\ X81,$$
$$\text{CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},\ -\frac{1}{\left(l^2-r^2-r R\right)^2\left(3 l^2 r-r^3+2 l^2 R-8 r^2 R-16 r R^2\right)^2}$$
$$r^2 R\left(6 l^8 r+10 l^6 r^3+2 l^4 r^5-2 l^2 r^7+8 l^8 R-3 l^6 r^2 R-29 l^4 r^4 R-17 l^2 r^6 R+r^8 R-152 l^6 r R^2-188 l^4 r^3 R^2-16 l^2 r^5 R^2+20 r^7 R^2-36 l^6 R^3-184 l^4 r^2 R^3+268 l^2 r^4 R^3+160 r^6 R^3+480 l^4 r R^4+1120 l^2 r^3 R^4+640 r^5 R^4+1472 l^2 r^2 R^5+1280 r^4 R^5+1024 r^3 R^6\right)\}$$

$$\{X41,\ X(6)\text{-CEVA CONJUGATE OF }X(31),\ X82,\ \text{ISOGONAL CONJUGATE OF }X(38),$$
$$-\Big(\Big(r^2 R\left(6 l^{12} r+16 l^{10} r^3+6 l^8 r^5-16 l^6 r^7-14 l^4 r^9+2 r^{13}+8 l^{12} R-107 l^{10} r^2 R-91 l^8 r^4 R+2 l^6 r^6 R-126 l^4 r^8 R-39 l^2 r^{10} R+65 r^{12} R-272 l^{10} r R^2+1108 l^8 r^3 R^2-904 l^6 r^5 R^2+464 l^4 r^7 R^2-936 l^2 r^9 R^2+924 r^{11} R^2-36 l^{10} R^3+2992 l^8 r^2 R^3-8376 l^6 r^4 R^3+9472 l^4 r^6 R^3-9252 l^2 r^8 R^3+7504 r^{10} R^3+1056 l^8 r R^4-18624 l^6 r^3 R^4+42400 l^4 r^5 R^4-48192 l^2 r^7 R^4+38080 r^9 R^4-10432 l^6 r^2 R^5+78592 l^4 r^4 R^5-139392 l^2 r^6 R^5+123648 r^8 R^5+51712 l^4 r^3 R^6-211968 l^2 r^5 R^6+250880 r^7 R^6-132096 l^2 r^4 R^7+290816 r^6 R^7+147456 r^5 R^8\right)\Big)\Big/\left(\left(3 l^2 r-r^3+2 l^2 R-8 r^2 R-16 r R^2\right)^2\left(l^4-4 l^2 r^2+3 r^4-9 l^2 r R+19 r^3 R+28 r^2 R^2\right)^2\right)\Big)\}$$

$$\{X41,\ X(6)\text{-CEVA CONJUGATE OF }X(31),\ X83,\ \text{CEVAPOINT OF CENTROID AND SYMMEDIAN POINT},$$
$$-\Big(\Big(21 l^{14} r^2+47 l^{12} r^4-15 l^{10} r^6-109 l^8 r^8-81 l^6 r^{10}-3 l^4 r^{12}+11 l^2 r^{14}+r^{16}+8 l^{14} r R-516 l^{12} r^3 R-360 l^{10} r^5 R+204 l^8 r^7 R-424 l^6 r^9 R-236 l^4 r^{11} R+264 l^2 r^{13} R+36 r^{15} R-4 l^{14} R^2-280 l^{12} r^2 R^2+4564 l^{10} r^4 R^2-3024 l^8 r^6 R^2+3108 l^6 r^8 R^2-3416 l^4 r^{10} R^2+2572 l^2 r^{12} R^2+576 r^{14} R^2+64 l^{12} r R^3+2720 l^{10} r^3 R^3-19840 l^8 r^5 R^3+25792 l^6 r^7 R^3-20416 l^4 r^9 R^3+12448 l^2 r^{11} R^3+5376 r^{13} R^3+256 l^{10} r^2 R^4-11904 l^8 r^4 R^4+52544 l^6 r^6 R^4-55296 l^4 r^8 R^4+25920 l^2 r^{10} R^4+32256 r^{12} R^4-4608 l^8 r^3 R^5+23040 l^6 r^5 R^5-48128 l^4 r^7 R^5-19456 l^2 r^9 R^5+129024 r^{11} R^5+4096 l^6 r^4 R^6+51200 l^4 r^6 R^6-216064 l^2 r^8 R^6+344064 r^{10} R^6+81920 l^4 r^5 R^7-417792 l^2 r^7 R^7+589824 r^9 R^7-278528 l^2 r^6 R^8+589824 r^8 R^8+262144 r^7 R^9\right)\Big)\Big/\left(\left(3 l^2 r-r^3+2 l^2 R-8 r^2 R-16 r R^2\right)^2\left(5 l^4-6 l^2 r^2+5 r^4-40 l^2 r R+40 r^3 R+80 r^2 R^2\right)^2\right)\Big)\}$$

$$\{X41,\ X(6)\text{-CEVA CONJUGATE OF }X(31),\ X84,\ \text{ISOGONAL CONJUGATE OF }X(40),$$
$$\left(4 R\left(6 l^6 r^3-2 l^4 r^5+l^6 r^2 R-25 l^4 r^4 R+2 l^2 r^6 R-8 l^6 r R^2-52 l^4 r^3 R^2+24 l^2 r^5 R^2-4 l^6 R^3+100 l^4 r^2 R^3+56 l^2 r^4 R^3+4 r^6 R^3+112 l^4 r R^4-208 l^2 r^3 R^4+64 r^5 R^4+16 l^4 R^5-768 l^2 r^2 R^5+384 r^4 R^5-256 l^2 r R^6+1024 r^3 R^6+1024 r^2 R^7\right)\right)\Big/\left(r^2\left(-3 l^2 r+r^3-2 l^2 R+8 r^2 R+16 r R^2\right)^2\right)\}$$

$$\{X41,\ X(6)\text{-CEVA CONJUGATE OF }X(31),\ X85,\ \text{ISOTOMIC CONJUGATE OF }X(9),$$
$$\frac{1}{\left(l^2+r^2+8 r R+16 R^2\right)^2\left(3 l^2 r-r^3+2 l^2 R-8 r^2 R-16 r R^2\right)^2}$$
$$\left(3 l^{10} r^2+11 l^8 r^4+14 l^6 r^6+6 l^4 r^8-l^2 r^{10}-r^{12}+8 l^{10} r R-188 l^8 r^3 R+312 l^6 r^5 R+32 l^4 r^7 R-36 r^{11} R+4 l^{10} R^2-400 l^8 r^2 R^2+2024 l^6 r^4 R^2-496 l^4 r^6 R^2+340 l^2 r^8 R^2-576 r^{10} R^2-192 l^8 r R^3+4832 l^6 r^3 R^3-5376 l^4 r^5 R^3+4576 l^2 r^7 R^3-5376 r^9 R^3+3456 l^6 r^2 R^4-19456 l^4 r^4 R^4+27840 l^2 r^6 R^4-32256 r^8 R^4+512 l^6 r R^5-28672 l^4 r^3 R^5+91136 l^2 r^5 R^5-129024 r^7 R^5-12288 l^4 r^2 R^6+158720 l^2 r^4 R^6-344064 r^6 R^6+122880 l^2 r^3 R^7-589824 r^5 R^7+16384 l^2 r^2 R^8-589824 r^4 R^8-262144 r^3 R^9\right)\}$$

$$\{X41,\ X(6)\text{-CEVA CONJUGATE OF }X(31),\ X86,\ \text{CEVAPOINT OF INCENTER AND CENTROID},$$
$$-\frac{1}{\left(5 l^2+r^2+4 r R\right)^2\left(3 l^2 r-r^3+2 l^2 R-8 r^2 R-16 r R^2\right)^2}$$
$$\left(21 l^{10} r^2+5 l^8 r^4-46 l^6 r^6-22 l^4 r^8+9 l^2 r^{10}+r^{12}+8 l^{10} r R-172 l^8 r^3 R-504 l^6 r^5 R-176 l^4 r^7 R+176 l^2 r^9 R+28 r^{11} R-4 l^{10} R^2-176 l^8 r^2 R^2-1272 l^6 r^4 R^2-224 l^4 r^6 R^2+1468 l^2 r^8 R^2+336 r^{10} R^2-32 l^8 r R^3-960 l^6 r^3 R^3+1632 l^4 r^5 R^3+6848 l^2 r^7 R^3+2240 r^9 R^3+832 l^6 r^2 R^4+6912 l^4 r^4 R^4+19328 l^2 r^6 R^4+8960 r^8 R^4+9728 l^4 r^3 R^5+31744 l^2 r^5 R^5+21504 r^7 R^5+23552 l^2 r^4 R^6+28672 r^6 R^6+16384 r^5 R^7\right)\}$$

$$\{X41,\ X(6)\text{-CEVA CONJUGATE OF } X(31),\ X87,\ X(2)\text{-CROSS CONJUGATE OF } X(1),$$
$$\left(4 r^2 R \left(3 l^{12} r + 8 l^{10} r^3 + 3 l^8 r^5 - 8 l^6 r^7 - 7 l^4 r^9 + r^{13} + l^{12} R - 91 l^{10} r^2 R - 122 l^8 r^4 R - 38 l^6 r^6 R - 51 l^4 r^8 R - 15 l^2 r^{10} R + 28 r^{12} R - 16 l^{10} r R^2 + 800 l^8 r^3 R^2 + 784 l^6 r^5 R^2 - 560 l^4 r^7 R^2 - 192 l^2 r^9 R^2 + 336 r^{11} R^2 - 160 l^8 r^2 R^3 - 864 l^6 r^4 R^3 - 3616 l^4 r^6 R^3 - 672 l^2 r^8 R^3 + 2240 r^{10} R^3 + 3072 l^6 r^3 R^4 - 7168 l^4 r^5 R^4 + 768 l^2 r^7 R^4 + 8960 r^9 R^4 + 1024 l^6 r^2 R^5 - 4864 l^4 r^4 R^5 + 8448 l^2 r^6 R^5 + 21504 r^8 R^5 - 16384 l^4 r^3 R^6 + 12288 l^2 r^5 R^6 + 28672 r^7 R^6 + 16384 r^6 R^7\right)\right) \Big/ \left(\left(3 l^2 r - r^3 + 2 l^2 R - 8 r^2 R - 16 r R^2\right)^2 \left(l^4 + 2 l^2 r^2 + r^4 - 20 l^2 r R + 12 r^3 R + 32 r^2 R^2\right)^2\right)\}$$

$$\{X41,\ X(6)\text{-CEVA CONJUGATE OF } X(31),\ X88,\ \text{ISOGONAL CONJUGATE OF } X(44),$$
$$\frac{1}{\left(l^2 + 3 r^2 - 15 r R\right)^2 \left(3 l^2 r - r^3 + 2 l^2 R - 8 r^2 R - 16 r R^2\right)^2}$$
$$r^2 R \left(6 l^8 r + 10 l^6 r^3 - 382 l^4 r^5 + 126 l^2 r^7 - 165 l^6 r^2 R - 571 l^4 r^4 R + 1305 l^2 r^6 R - 81 r^8 R + 72 l^6 r R^2 + 300 l^4 r^3 R^2 + 5904 l^2 r^5 R^2 - 1620 r^7 R^2 + 4 l^6 R^3 - 2536 l^4 r^2 R^3 + 17460 l^2 r^4 R^3 - 12960 r^6 R^3 - 352 l^4 r R^4 + 29088 l^2 r^3 R^4 - 51840 r^5 R^4 + 9792 l^2 r^2 R^5 - 103680 r^4 R^5 - 82944 r^3 R^6\right)\}$$

$$\{X41,\ X(6)\text{-CEVA CONJUGATE OF } X(31),\ X89,\ \text{ISOGONAL CONJUGATE OF } X(45),$$
$$-\frac{1}{\left(2 l^2 - 6 r^2 + 3 r R\right)^2 \left(3 l^2 r - r^3 + 2 l^2 R - 8 r^2 R - 16 r R^2\right)^2}$$
$$r^2 R \left(12 l^8 r + 164 l^6 r^3 + 484 l^4 r^5 - 180 l^2 r^7 + 24 l^8 R + 417 l^6 r^2 R + 1387 l^4 r^4 R - 2061 l^2 r^6 R + 81 r^8 R - 144 l^6 r R^2 - 948 l^4 r^3 R^2 - 9360 l^2 r^5 R^2 + 1620 r^7 R^2 - 100 l^6 R^3 - 6632 l^4 r^2 R^3 - 20916 l^2 r^4 R^3 + 12960 r^6 R^3 + 160 l^4 r R^4 - 15264 l^2 r^3 R^4 + 51840 r^5 R^4 + 17856 l^2 r^2 R^5 + 103680 r^4 R^5 + 82944 r^3 R^6\right)\}$$

$$\{X41,\ X(6)\text{-CEVA CONJUGATE OF } X(31),\ X90,\ X(3)\text{-CROSS CONJUGATE OF } X(1),$$
$$\left(4 r^2 R \left(6 l^6 r^3 - 2 l^4 r^5 + 4 l^6 r^2 R - 23 l^4 r^4 R + l^2 r^6 R + 3 l^6 r R^2 - 74 l^4 r^3 R^2 + 15 l^2 r^5 R^2 + 2 l^6 R^3 - 62 l^4 r^2 R^3 + 80 l^2 r^4 R^3 - 47 l^4 r R^4 + 188 l^2 r^3 R^4 - r^5 R^4 - 11 l^4 R^5 + 225 l^2 r^2 R^5 - 16 r^4 R^5 + 200 l^2 r R^6 - 96 r^3 R^6 + 16 l^2 R^7 - 256 r^2 R^7 - 256 r R^8\right)\right) \Big/ \left(\left(r^2 + 2 r R - R^2\right)^2 \left(-3 l^2 r + r^3 - 2 l^2 R + 8 r^2 R + 16 r R^2\right)^2\right)\}$$

$$\{X41,\ X(6)\text{-CEVA CONJUGATE OF } X(31),\ X91,\ \text{ISOGONAL CONJUGATE OF } X(47),$$
$$\left(r^2 \left(3 l^{10} r^2 + 11 l^8 r^4 + 14 l^6 r^6 + 6 l^4 r^8 - l^2 r^{10} - r^{12} + 14 l^{10} r R - 94 l^8 r^3 R + 244 l^6 r^5 R - 100 l^4 r^7 R + 30 l^2 r^9 R - 30 r^{11} R + 8 l^{10} R^2 - 364 l^8 r^2 R^2 + 1232 l^6 r^4 R^2 - 1608 l^4 r^6 R^2 + 744 l^2 r^8 R^2 - 396 r^{10} R^2 - 332 l^8 r R^3 + 3440 l^6 r^3 R^3 - 7944 l^4 r^5 R^3 + 6128 l^2 r^7 R^3 - 3020 r^9 R^3 - 76 l^8 R^4 + 4488 l^6 r^2 R^4 - 19696 l^4 r^4 R^4 + 26008 l^2 r^6 R^4 - 14692 r^8 R^4 + 2280 l^6 r R^5 - 27832 l^4 r^3 R^5 + 63928 l^2 r^5 R^5 - 47528 r^7 R^5 + 272 l^6 R^6 - 20864 l^4 r^2 R^6 + 94800 l^2 r^4 R^6 - 103520 r^6 R^6 - 6736 l^4 r R^7 + 84512 l^2 r^3 R^7 - 150800 r^5 R^7 - 432 l^4 R^8 + 41488 l^2 r^2 R^8 - 143616 r^4 R^8 + 8832 l^2 r R^9 - 85504 r^3 R^9 + 256 l^2 R^{10} - 28672 r^2 R^{10} - 4096 r R^{11}\right)\right) \Big/ \left(\left(3 l^2 r - r^3 + 2 l^2 R - 8 r^2 R - 16 r R^2\right)^2 \left(l^2 r + r^3 - l^2 R + 3 r^2 R + 2 r R^2 + 2 R^3\right)^2\right)\}$$

$$\{X41,\ X(6)\text{-CEVA CONJUGATE OF } X(31),\ X92,$$
$$\text{CEVAPOINT OF INCENTER AND CLAWSON POINT},\ \frac{1}{\left(l^2 + r^2 - 4 R^2\right)^2 \left(3 l^2 r - r^3 + 2 l^2 R - 8 r^2 R - 16 r R^2\right)^2}$$
$$\left(3 l^{10} r^2 + 11 l^8 r^4 + 14 l^6 r^6 + 6 l^4 r^8 - l^2 r^{10} - r^{12} + 8 l^{10} r R - 116 l^8 r^3 R + 216 l^6 r^5 R - 112 l^4 r^7 R + 32 l^2 r^9 R - 28 r^{11} R + 4 l^{10} R^2 - 280 l^8 r^2 R^2 + 1304 l^6 r^4 R^2 - 1680 l^4 r^6 R^2 + 740 l^2 r^8 R^2 - 344 r^{10} R^2 - 192 l^8 r R^3 + 3360 l^6 r^3 R^3 - 8064 l^4 r^5 R^3 + 5792 l^2 r^7 R^3 - 2432 r^9 R^3 - 32 l^8 R^4 + 3152 l^6 r^2 R^4 - 18704 l^4 r^4 R^4 + 23216 l^2 r^6 R^4 - 10896 r^8 R^4 + 1024 l^6 r R^5 - 21568 l^4 r^3 R^5 + 52352 l^2 r^5 R^5 - 32064 r^7 R^5 + 64 l^6 R^6 - 10368 l^4 r^2 R^6 + 65856 l^2 r^4 R^6 - 61952 r^6 R^6 - 1536 l^4 r R^7 + 41472 l^2 r^3 R^7 - 75776 r^5 R^7 + 9216 l^2 r^2 R^8 - 53248 r^4 R^8 - 16384 r^3 R^9\right)\}$$

{X41, X(6)-CEVA CONJUGATE OF X(31), X93, ISOGONAL CONJUGATE OF X(49),

$$\left(3 l^{14} r^2 + 17 l^{12} r^4 + 39 l^{10} r^6 + 45 l^8 r^8 + 25 l^6 r^{10} + 3 l^4 r^{12} - 3 l^2 r^{14} - r^{16} + 8 l^{14} r R - 28 l^{12} r^3 R - 104 l^{10} r^5 R - 12 l^8 r^7 R + 152 l^6 r^9 R + 76 l^4 r^{11} R - 56 l^2 r^{13} R - 36 r^{15} R + 4 l^{14} R^2 - 206 l^{12} r^2 R^2 - 764 l^{10} r^4 R^2 + 1378 l^8 r^6 R^2 - 1156 l^6 r^8 R^2 + 1206 l^4 r^{10} R^2 - 388 l^2 r^{12} R^2 - 586 r^{14} R^2 - 192 l^{12} r R^3 + 640 l^{10} r^3 R^3 + 10592 l^8 r^5 R^3 - 16160 l^6 r^7 R^3 + 11552 l^4 r^9 R^3 - 992 l^2 r^{11} R^3 - 5696 r^{13} R^3 - 40 l^{12} R^4 + 2292 l^{10} r^2 R^4 + 17520 l^8 r^4 R^4 - 73944 l^6 r^6 R^4 + 66552 l^4 r^8 R^4 + 1156 l^2 r^{10} R^4 - 36768 r^{12} R^4 + 1176 l^{10} r R^5 + 3232 l^8 r^3 R^5 - 161328 l^6 r^5 R^5 + 237984 l^4 r^7 R^5 + 9304 l^2 r^9 R^5 - 165760 r^{11} R^5 + 128 l^{10} R^6 - 6358 l^8 r^2 R^6 - 164852 l^6 r^4 R^6 + 533048 l^4 r^6 R^6 - 10060 l^2 r^8 R^6 - 534050 r^{10} R^6 - 2464 l^8 r R^7 - 62928 l^6 r^3 R^7 + 724016 l^4 r^5 R^7 - 160848 l^2 r^7 R^7 - 1235760 r^9 R^7 - 136 l^8 R^8 - 3671 l^6 r^2 R^8 + 545139 l^4 r^4 R^8 - 466853 l^2 r^6 R^8 - 2031591 r^8 R^8 + 1200 l^6 r R^9 + 190012 l^4 r^3 R^9 - 651904 l^2 r^5 R^9 - 2304652 r^7 R^9 + 28 l^6 R^{10} + 25332 l^4 r^2 R^{10} - 457972 l^2 r^4 R^{10} - 1704540 r^6 R^{10} + 528 l^4 r R^{11} - 140464 l^2 r^3 R^{11} - 737600 r^5 R^{11} + 16 l^4 R^{12} - 16064 l^2 r^2 R^{12} - 147840 r^4 R^{12} - 256 l^2 r R^{13} - 6144 r^3 R^{13} + 1024 r^2 R^{14}\right) \Big/ \left(\left(3 l^2 r - r^3 + 2 l^2 R - 8 r^2 R - 16 r R^2\right)^2 \left(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 8 l^2 R^2 + 24 r^2 R^2 + 32 r R^3 + 13 R^4\right)^2\right)\}$$

{X41, X(6)-CEVA CONJUGATE OF X(31), X94, ISOGONAL CONJUGATE OF X(50),

$$\left(3 l^{14} r^2 + 17 l^{12} r^4 + 39 l^{10} r^6 + 45 l^8 r^8 + 25 l^6 r^{10} + 3 l^4 r^{12} - 3 l^2 r^{14} - r^{16} + 8 l^{14} r R - 28 l^{12} r^3 R - 104 l^{10} r^5 R - 12 l^8 r^7 R + 152 l^6 r^9 R + 76 l^4 r^{11} R - 56 l^2 r^{13} R - 36 r^{15} R + 4 l^{14} R^2 - 200 l^{12} r^2 R^2 - 736 l^{10} r^4 R^2 + 1428 l^8 r^6 R^2 - 1116 l^6 r^8 R^2 + 1216 l^4 r^{10} R^2 - 392 l^2 r^{12} R^2 - 588 r^{14} R^2 - 200 l^{12} r R^3 + 504 l^{10} r^3 R^3 + 10384 l^8 r^5 R^3 - 16112 l^6 r^7 R^3 + 11704 l^4 r^9 R^3 - 1032 l^2 r^{11} R^3 - 5760 r^{13} R^3 - 48 l^{12} R^4 + 2366 l^{10} r^2 R^4 + 17906 l^8 r^4 R^4 - 73972 l^6 r^6 R^4 + 67316 l^4 r^8 R^4 + 1334 l^2 r^{10} R^4 - 37686 r^{12} R^4 + 1464 l^{10} r R^5 + 4072 l^8 r^3 R^5 - 161472 l^6 r^5 R^5 + 238528 l^4 r^7 R^5 + 14024 l^2 r^9 R^5 - 173544 r^{11} R^5 + 216 l^{10} R^6 - 8472 l^8 r^2 R^6 - 168564 l^6 r^4 R^6 + 527668 l^4 r^6 R^6 + 21612 l^2 r^8 R^6 - 577356 r^{10} R^6 - 4536 l^8 r R^7 - 66888 l^6 r^3 R^7 + 716440 l^4 r^5 R^7 - 50936 l^2 r^7 R^7 - 1401504 r^9 R^7 - 432 l^8 R^8 + 3303 l^6 r^2 R^8 + 563613 l^4 r^4 R^8 - 253451 l^2 r^6 R^8 - 2475921 r^8 R^8 + 6048 l^6 r R^9 + 224388 l^4 r^3 R^9 - 440112 l^2 r^5 R^9 - 3136084 r^7 R^9 + 324 l^6 R^{10} + 30024 l^4 r^2 R^{10} - 398412 l^2 r^4 R^{10} - 2762400 r^6 R^{10} - 2592 l^4 r R^{11} - 187488 l^2 r^3 R^{11} - 1600128 r^5 R^{11} - 36288 l^2 r^2 R^{12} - 546048 r^4 R^{12} - 82944 r^3 R^{13}\right) \Big/ \left(\left(3 l^2 r - r^3 + 2 l^2 R - 8 r^2 R - 16 r R^2\right)^2 \left(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 12 l^2 R^2 + 28 r^2 R^2 + 48 r R^3 + 27 R^4\right)^2\right)\}$$

{X41, X(6)-CEVA CONJUGATE OF X(31), X95, CEVAPOINT OF CENTROID AND CIRCUMCENTER,

$$\left(3 l^{14} r^2 + 65 l^{12} r^4 + 215 l^{10} r^6 + 269 l^8 r^8 + 121 l^6 r^{10} - 13 l^4 r^{12} - 19 l^2 r^{14} - r^{16} + 8 l^{14} r R + 100 l^{12} r^3 R - 424 l^{10} r^5 R - 140 l^8 r^7 R + 920 l^6 r^9 R + 76 l^4 r^{11} R - 504 l^2 r^{13} R - 36 r^{15} R + 4 l^{14} R^2 - 160 l^{12} r^2 R^2 - 3252 l^{10} r^4 R^2 + 1784 l^8 r^6 R^2 - 2212 l^6 r^8 R^2 + 4080 l^4 r^{10} R^2 - 5804 l^2 r^{12} R^2 - 584 r^{14} R^2 - 192 l^{12} r R^3 - 864 l^{10} r^3 R^3 + 22784 l^8 r^5 R^3 - 39616 l^6 r^7 R^3 + 37824 l^4 r^9 R^3 - 37856 l^2 r^{11} R^3 - 5632 r^{13} R^3 - 32 l^{12} R^4 + 2384 l^{10} r^2 R^4 + 27952 l^8 r^4 R^4 - 127712 l^6 r^6 R^4 + 164992 l^4 r^8 R^4 - 152816 l^2 r^{10} R^4 - 35856 r^{12} R^4 + 1024 l^{10} r R^5 - 1088 l^8 r^3 R^5 - 152960 l^6 r^5 R^5 + 390144 l^4 r^7 R^5 - 391296 l^2 r^9 R^5 - 158144 r^{11} R^5 + 64 l^{10} R^6 - 8704 l^8 r^2 R^6 - 96896 l^6 r^4 R^6 + 514304 l^4 r^6 R^6 - 626624 l^2 r^8 R^6 - 492800 r^{10} R^6 - 1536 l^8 r R^7 - 2048 l^6 r^3 R^7 + 396800 l^4 r^5 R^7 - 605184 l^2 r^7 R^7 - 1084416 r^9 R^7 + 7168 l^6 r^2 R^8 + 212992 l^4 r^4 R^8 - 366592 l^2 r^6 R^8 - 1650688 r^8 R^8 + 24576 l^4 r^3 R^9 - 212992 l^2 r^5 R^9 - 1654784 r^7 R^9 - 114688 l^2 r^4 R^{10} - 983040 r^6 R^{10} - 262144 r^5 R^{11}\right) \Big/ \left(\left(3 l^2 r - r^3 + 2 l^2 R - 8 r^2 R - 16 r R^2\right)^2 \left(l^4 + 18 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 4 l^2 R^2 + 20 r^2 R^2 + 16 r R^3\right)^2\right)\}$$

$$\{X41,\ X(6)\text{-CEVA CONJUGATE OF } X(31),\ X96,\ \text{ISOGONAL CONJUGATE OF } X(52),$$
$$-\Big(\big(3 l^{14} r^2 - 31 l^{12} r^4 - 137 l^{10} r^6 - 179 l^8 r^8 - 71 l^6 r^{10} + 19 l^4 r^{12} + 13 l^2 r^{14} - r^{16} + 8 l^{14} r R - 156 l^{12} r^3 R + 216 l^{10} r^5 R + 116 l^8 r^7 R - 616 l^6 r^9 R + 76 l^4 r^{11} R + 392 l^2 r^{13} R - 36 r^{15} R + 4 l^{14} R^2 - 340 l^{12} r^2 R^2 + 3172 l^{10} r^4 R^2 - 2084 l^8 r^6 R^2 + 1644 l^6 r^8 R^2 - 3260 l^4 r^{10} R^2 + 5292 l^2 r^{12} R^2 - 588 r^{14} R^2 - 256 l^{12} r R^3 + 6496 l^{10} r^3 R^3 - 27968 l^8 r^5 R^3 + 39680 l^6 r^7 R^3 - 43584 l^4 r^9 R^3 + 42144 l^2 r^{11} R^3 - 5760 r^{13} R^3 - 48 l^{12} R^4 + 5944 l^{10} r^2 R^4 - 70168 l^8 r^4 R^4 + 190352 l^6 r^6 R^4 - 251392 l^4 r^8 R^4 + 219576 l^2 r^{10} R^4 - 37688 r^{12} R^4 + 2144 l^{10} r R^5 - 71712 l^8 r^3 R^5 + 423872 l^6 r^5 R^5 - 818368 l^4 r^7 R^5 + 784608 l^2 r^9 R^5 - 173600 r^{11} R^5 + 224 l^{10} R^6 - 36512 l^8 r^2 R^6 + 499168 l^6 r^4 R^6 - 1615840 l^4 r^6 R^6 + 1960640 l^2 r^8 R^6 - 578048 r^{10} R^6 - 7872 l^8 r R^7 + 314176 l^6 r^3 R^7 - 1966144 l^4 r^5 R^7 + 3431872 l^2 r^7 R^7 - 1406464 r^9 R^7 - 512 l^8 R^8 + 102512 l^6 r^2 R^8 - 1454896 l^4 r^4 R^8 + 4154064 l^2 r^6 R^8 - 2498704 r^8 R^8 + 14336 l^6 r R^9 - 623808 l^4 r^3 R^9 + 3382784 l^2 r^5 R^9 - 3205952 r^7 R^9 + 576 l^6 R^{10} - 139584 l^4 r^2 R^{10} + 1768768 l^2 r^4 R^{10} - 2906688 r^6 R^{10} - 12544 l^4 r R^{11} + 547584 l^2 r^3 R^{11} - 1797120 r^5 R^{11} - 256 l^4 R^{12} + 84992 l^2 r^2 R^{12} - 714752 r^4 R^{12} + 4096 l^2 r R^{13} - 163840 r^3 R^{13} - 16384 r^2 R^{14}\big) \Big/ \big(\big(3 l^2 r - r^3 + 2 l^2 R - 8 r^2 R - 16 r R^2\big)^2 \big(l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2 - 4 R^4\big)^2\big)\Big)\}$$

$$\{X41,\ X(6)\text{-CEVA CONJUGATE OF } X(31),\ X97,\ \text{ISOGONAL CONJUGATE OF } X(53),$$
$$\Big(R^2 \big(2 l^{12} r^2 - 6 l^{10} r^4 - 28 l^8 r^6 - 28 l^6 r^8 - 6 l^4 r^{10} + 2 l^2 r^{12} + 4 l^{12} r R + 20 l^{10} r^3 R - 360 l^8 r^5 R - 72 l^6 r^7 R - 156 l^4 r^9 R + 52 l^2 r^{11} R - 97 l^{10} r^2 R^2 - 41 l^8 r^4 R^2 + 906 l^6 r^6 R^2 - 1398 l^4 r^8 R^2 + 567 l^2 r^{10} R^2 - r^{12} R^2 - 48 l^{10} r R^3 + 28 l^8 r^3 R^3 + 3432 l^6 r^5 R^3 - 5888 l^4 r^7 R^3 + 3400 l^2 r^9 R^3 - 28 r^{11} R^3 + 4 l^{10} R^4 + 1000 l^8 r^2 R^4 + 104 l^6 r^4 R^4 - 12336 l^4 r^6 R^4 + 12340 l^2 r^8 R^4 - 344 r^{10} R^4 + 128 l^8 r R^5 - 1728 l^6 r^3 R^5 - 11136 l^4 r^5 R^5 + 28224 l^2 r^7 R^5 - 2432 r^9 R^5 - 32 l^8 R^6 - 3760 l^6 r^2 R^6 - 400 l^4 r^4 R^6 + 41584 l^2 r^6 R^6 - 10896 r^8 R^6 + 128 l^6 r R^7 + 4672 l^4 r^3 R^7 + 40064 l^2 r^5 R^7 - 32064 r^7 R^7 + 64 l^6 R^8 + 6784 l^4 r^2 R^8 + 22848 l^2 r^4 R^8 - 61952 r^6 R^8 - 512 l^4 r R^9 + 512 l^2 r^3 R^9 - 75776 r^5 R^9 - 7168 l^2 r^2 R^{10} - 53248 r^4 R^{10} - 16384 r^3 R^{11}\big)\Big) \Big/ \big(\big(3 l^2 r - r^3 + 2 l^2 R - 8 r^2 R - 16 r R^2\big)^2 \big(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 7 l^2 R^2 + 23 r^2 R^2 + 28 r R^3 + 12 R^4\big)^2\big)\}$$

$$\{X41,\ X(6)\text{-CEVA CONJUGATE OF } X(31),\ X98,\ \text{TarryPoint},$$
$$-\Big(\big(3 l^{10} r^2 + 11 l^8 r^4 + 14 l^6 r^6 + 6 l^4 r^8 - l^2 r^{10} - r^{12} + 8 l^{10} r R - 20 l^8 r^3 R - 8 l^6 r^5 R + 48 l^4 r^7 R - 28 r^{11} R + 4 l^{10} R^2 - 172 l^8 r^2 R^2 + 160 l^6 r^4 R^2 - 128 l^4 r^6 R^2 + 220 l^2 r^8 R^2 - 340 r^{10} R^2 - 144 l^8 r R^3 + 1296 l^6 r^3 R^3 - 2256 l^4 r^5 R^3 + 2288 l^2 r^7 R^3 - 2336 r^9 R^3 - 16 l^8 R^4 + 1696 l^6 r^2 R^4 - 7504 l^4 r^4 R^4 + 10368 l^2 r^6 R^4 - 9920 r^8 R^4 + 384 l^6 r R^5 - 9088 l^4 r^3 R^5 + 24064 l^2 r^5 R^5 - 26624 r^7 R^5 - 3328 l^4 r^2 R^6 + 27648 l^2 r^4 R^6 - 44032 r^6 R^6 + 12288 l^2 r^3 R^7 - 40960 r^5 R^7 - 16384 r^4 R^8\big) \Big/ \big(\big(3 l^2 r - r^3 + 2 l^2 R - 8 r^2 R - 16 r R^2\big)^2 \big(l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\big)\big)\Big)\}$$

$$\{X41,\ X(6)\text{-CEVA CONJUGATE OF } X(31),\ X99,\ \text{STEINER POINT},$$
$$\Big(3 l^{10} r^2 + 11 l^8 r^4 + 14 l^6 r^6 + 6 l^4 r^8 - l^2 r^{10} - r^{12} + 8 l^{10} r R - 20 l^8 r^3 R - 8 l^6 r^5 R + 48 l^4 r^7 R - 28 r^{11} R + 4 l^{10} R^2 - 144 l^8 r^2 R^2 - 264 l^6 r^4 R^2 + 352 l^4 r^6 R^2 + 132 l^2 r^8 R^2 - 336 r^{10} R^2 - 96 l^8 r R^3 + 128 l^6 r^3 R^3 + 2144 l^4 r^5 R^3 + 832 l^2 r^7 R^3 - 2240 r^9 R^3 + 448 l^6 r^2 R^4 + 4864 l^4 r^4 R^4 + 1152 l^2 r^6 R^4 - 8960 r^8 R^4 + 1536 l^4 r^3 R^5 - 3072 l^2 r^5 R^5 - 21504 r^7 R^5 - 7168 l^2 r^4 R^6 - 28672 r^6 R^6 - 16384 r^5 R^7\Big) \Big/ \big(\big(3 l^2 r - r^3 + 2 l^2 R - 8 r^2 R - 16 r R^2\big)^2 \big(l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\big)\big)\}$$

$$\{X41,\ X(6)\text{-CEVA CONJUGATE OF } X(31),\ X100,\ \text{ANTICOMPLEMENT OF FEUERBACH POINT},$$
$$\Big(R \big(-3 l^6 r^2 - 5 l^4 r^4 - l^2 r^6 + r^8 - 8 l^6 r R + 52 l^4 r^3 R - 48 l^2 r^5 R + 20 r^7 R - 4 l^6 R^2 + 168 l^4 r^2 R^2 - 372 l^2 r^4 R^2 + 160 r^6 R^2 + 96 l^4 r R^3 - 928 l^2 r^3 R^3 + 640 r^5 R^3 - 576 l^2 r^2 R^4 + 1280 r^4 R^4 + 1024 r^3 R^5\big)\Big) \Big/ \big((2 r - R) \big(-3 l^2 r + r^3 - 2 l^2 R + 8 r^2 R + 16 r R^2\big)^2\big)\}$$

$$\{X42,\ \text{CROSSPOINT OF INCENTER AND SYMMEDIAN POINT},\ X43,$$
$$X(6)\text{-CEVA CONJUGATE OF } X(1),\ \frac{4 r^2 R^2 \big(l^2 + 5 r^2 - 16 r R\big) \big(l^2 + r^2 + 4 r R\big)^2}{\big(l^2 + r^2 - 8 r R\big)^2 \big(l^2 + r^2 - 2 r R\big)^2}\}$$

$$\{X42,\ \text{CROSSPOINT OF INCENTER AND SYMMEDIAN POINT},\ X44,\ X(6)\text{-LINE CONJUGATE OF } X(1),$$
$$\Big(4 r^2 R \big(6 l^6 r + 12 l^4 r^3 + 6 l^2 r^5 + 4 l^6 R - 25 l^4 r^2 R - 102 l^2 r^4 R - 9 r^6 R - 40 l^4 r R^2 - 348 l^2 r^3 R^2 - 108 r^5 R^2 - 348 l^2 r^2 R^3 - 432 r^4 R^3 - 576 r^3 R^4\big)\Big) \Big/ \big(\big(l^2 - 3 r^2 - 12 r R\big)^2 \big(l^2 + r^2 - 2 r R\big)^2\big)\}$$

$$\{X42, \text{CROSSPOINT OF INCENTER AND SYMMEDIAN POINT}, X45, X(9)\text{-BETH CONJUGATE OF } X(1),$$
$$\left(4 r^2 R \left(12 l^6 r + 24 l^4 r^3 + 12 l^2 r^5 + 16 l^6 R - 37 l^4 r^2 R - 78 l^2 r^4 R - 9 r^6 R - 208 l^4 r R^2 - 444 l^2 r^3 R^2 - 108 r^5 R^2 - 732 l^2 r^2 R^3 - 432 r^4 R^3 - 576 r^3 R^4\right)\right) / \left(\left(l^2 + r^2 - 2 r R\right)^2 \left(l^2 + 3 r^2 + 12 r R\right)^2\right)\}$$

$$\{X42, \text{CROSSPOINT OF INCENTER AND SYMMEDIAN POINT}, X46, X(4)\text{-CEVA CONJUGATE OF } X(1),$$
$$-\frac{4 r^2 R \left(l^4 r + 2 l^2 r^3 + r^5 + 7 l^2 r^2 R + 3 r^4 R - 10 l^2 r R^2 - 6 r^3 R^2 - l^2 R^3 - 13 r^2 R^3 + 16 r R^4\right)}{(r - R)^2 \left(l^2 + r^2 - 2 r R\right)^2}\}$$

$$\{X42, \text{CROSSPOINT OF INCENTER AND SYMMEDIAN POINT}, X47, X(110)\text{-BETH CONJUGATE OF } X(34),$$
$$\left(16 r^2 R^2 \left(3 l^4 r^2 - 14 l^2 r^4 - r^6 + l^4 r R - 26 l^2 r^3 R - 11 r^5 R - 8 l^2 r^2 R^2 - 44 r^4 R^2 + 4 l^2 r R^3 - 80 r^3 R^3 + l^2 R^4 - 59 r^2 R^4 - 16 r R^5\right)\right) / \left(\left(l^2 + r^2 - 2 r R\right)^2 \left(l^2 - 3 r^2 - 6 r R - 2 R^2\right)^2\right)\}$$

$$\{X42, \text{CROSSPOINT OF INCENTER AND SYMMEDIAN POINT}, X48, \text{CROSSPOINT OF } X(1) \text{ AND } X(63),$$
$$-\left(\left(4 R^2 \left(l^8 + 24 l^6 r^2 - 34 l^4 r^4 + 8 l^2 r^6 + r^8 - 16 l^6 r R - 64 l^4 r^3 R + 32 l^2 r^5 R + 16 r^7 R - 4 l^6 R^2 - 132 l^4 r^2 R^2 + 52 l^2 r^4 R^2 + 100 r^6 R^2 + 48 l^4 r R^3 + 160 l^2 r^3 R^3 + 304 r^5 R^3 + 240 l^2 r^2 R^4 + 448 r^4 R^4 + 256 r^3 R^5\right)\right) / \left(\left(l^2 + r^2 - 2 r R\right)^2 \left(3 l^2 - r^2 - 6 r R - 8 R^2\right)^2\right)\right)\}$$

$$\{X42, \text{CROSSPOINT OF INCENTER AND SYMMEDIAN POINT}, X49, \text{CENTER OF SINE-TRIPLE-ANGLE CIRCLE},$$
$$-\left(\left(R^2 \left(l^8 + 28 l^6 r^2 - 130 l^4 r^4 + 108 l^2 r^6 + 9 r^8 - 12 l^6 r R - 212 l^4 r^3 R + 444 l^2 r^5 R + 132 r^7 R - 4 l^6 R^2 - 252 l^4 r^2 R^2 + 692 l^2 r^4 R^2 + 748 r^6 R^2 + 32 l^4 r R^3 + 784 l^2 r^3 R^3 + 2032 r^5 R^3 - l^4 R^4 + 674 l^2 r^2 R^4 + 2627 r^4 R^4 + 4 l^2 r R^5 + 1300 r^3 R^5 - 4 r^2 R^6\right)\right) / \left(\left(l^2 + r^2 - 2 r R\right)^2 \left(2 l^2 - 2 r^2 - 8 r R - 7 R^2\right)^2\right)\right)\}$$

$$\{X42, \text{CROSSPOINT OF INCENTER AND SYMMEDIAN POINT}, X50, X(74)\text{-CEVA CONJUGATE OF } X(184),$$
$$\left(4 r^4 R^2 \left(15 l^8 - 164 l^6 r^2 + 74 l^4 r^4 - 4 l^2 r^6 - r^8 - 164 l^6 r R + 356 l^4 r^3 R - 12 l^2 r^5 R - 20 r^7 R - 38 l^6 R^2 + 654 l^4 r^2 R^2 + 78 l^2 r^4 R^2 - 166 r^6 R^2 + 336 l^4 r R^3 + 368 l^2 r^3 R^3 - 736 r^5 R^3 + 3 l^4 R^4 + 474 l^2 r^2 R^4 - 1865 r^4 R^4 + 228 l^2 r R^5 - 2668 r^3 R^5 + 36 l^2 R^6 - 1968 r^2 R^6 - 576 r R^7\right)\right) / \left(\left(l^2 + r^2 - 2 r R\right)^2 \left(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 3 l^2 R^2 + 19 r^2 R^2 + 12 r R^3\right)^2\right)\}$$

$$\{X42, \text{CROSSPOINT OF INCENTER AND SYMMEDIAN POINT},$$
$$X51, \text{CENTROID OF ORTHIC TRIANGLE}, -\frac{1}{36 R^2 \left(-l^2 - r^2 + 2 r R\right)^2}$$
$$\left(l^8 + 20 l^6 r^2 + 38 l^4 r^4 + 20 l^2 r^6 + r^8 - 12 l^6 r R - 84 l^4 r^3 R - 68 l^2 r^5 R + 4 r^7 R - 4 l^6 R^2 - 168 l^4 r^2 R^2 - 132 l^2 r^4 R^2 - 32 r^6 R^2 + 32 l^4 r R^3 + 224 l^2 r^3 R^3 - 128 r^5 R^3 + 448 l^2 r^2 R^4 + 256 r^4 R^4 + 1024 r^3 R^5\right)\}$$

$$\{X42, \text{CROSSPOINT OF INCENTER AND SYMMEDIAN POINT},$$
$$X52, \text{ORTHOCENTER OF ORTHIC TRIANGLE}, \frac{1}{4 R^2 \left(-l^2 - r^2 + 2 r R\right)^2}$$
$$\left(l^8 - 12 l^6 r^2 - 26 l^4 r^4 - 12 l^2 r^6 + r^8 - 12 l^6 r R + 44 l^4 r^3 R + 60 l^2 r^5 R + 4 r^7 R - 4 l^6 R^2 + 112 l^4 r^2 R^2 + 44 l^2 r^4 R^2 - 8 r^6 R^2 + 32 l^4 r R^3 - 192 l^2 r^3 R^3 - 32 r^5 R^3 + 4 l^4 R^4 - 152 l^2 r^2 R^4 + 4 r^4 R^4 - 16 l^2 r R^5 - 16 r^3 R^5 + 16 r^2 R^6\right)\}$$

$$\{X42, \text{CROSSPOINT OF INCENTER AND SYMMEDIAN POINT}, X53, \text{SYMMEDIAN POINT OF ORTHIC TRIANGLE},$$
$$-\left(\left(4 r^4 \left(2 l^{10} - 8 l^8 r^2 - 20 l^6 r^4 - 8 l^4 r^6 + 2 l^2 r^8 - 8 l^8 r R - 56 l^6 r^3 R - 24 l^4 r^5 R + 24 l^2 r^7 R - 3 l^8 R^2 + 28 l^6 r^2 R^2 + 66 l^4 r^4 R^2 + 100 l^2 r^6 R^2 + r^8 R^2 - 12 l^6 r R^3 + 204 l^4 r^3 R^3 + 108 l^2 r^5 R^3 + 20 r^7 R^3 - 12 l^6 R^4 - 348 l^2 r^4 R^4 + 168 r^6 R^4 - 96 l^4 r R^5 - 1056 l^2 r^3 R^5 + 768 r^5 R^5 - 16 l^4 R^6 - 896 l^2 r^2 R^6 + 2064 r^4 R^6 - 192 l^2 r R^7 + 3264 r^3 R^7 - 64 l^2 R^8 + 2816 r^2 R^8 + 1024 r R^9\right)\right) / \left(\left(l^2 + r^2 - 2 r R\right)^2 \left(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 4 l^2 R^2 + 20 r^2 R^2 + 16 r R^3\right)^2\right)\right)\}$$

$$\{X42, \text{CROSSPOINT OF INCENTER AND SYMMEDIAN POINT}, X54, \text{KosnitaPoint},$$
$$-\left(\left(R^2 \left(28 l^6 r^2 - 124 l^4 r^4 + 116 l^2 r^6 + 12 r^8 - 224 l^4 r^3 R + 448 l^2 r^5 R + 160 r^7 R + l^6 R^2 - 217 l^4 r^2 R^2 + 635 l^2 r^4 R^2 + 789 r^6 R^2 - 8 l^4 r R^3 + 720 l^2 r^3 R^3 + 1752 r^5 R^3 - 4 l^4 R^4 + 432 l^2 r^2 R^4 + 1684 r^4 R^4 + 16 l^2 r R^5 + 560 r^3 R^5 - 16 r^2 R^6\right)\right) / \left(\left(l^2 + r^2 - 2 r R\right)^2 \left(2 l^2 - 2 r^2 - 8 r R - 5 R^2\right)^2\right)\right)\}$$

$$\left\{X42,\ \text{CROSSPOINT OF INCENTER AND SYMMEDIAN POINT},\ X55,\ \text{INSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ -\frac{r^2 R^2 \left(-3 l^4+14 l^2 r^2+r^4+28 l^2 r R+12 r^3 R-4 l^2 R^2+48 r^2 R^2+64 r R^3\right)}{(r+R)^2 \left(l^2+r^2-2 r R\right)^2}\right\}$$

$$\left\{X42,\ \text{CROSSPOINT OF INCENTER AND SYMMEDIAN POINT},\ X56,\ \text{EXSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ -\frac{r^2 R^2 \left(l^4+22 l^2 r^2+5 r^4-20 l^2 r R+28 r^3 R-4 l^2 R^2-96 r^2 R^2+64 r R^3\right)}{(r-R)^2 \left(l^2+r^2-2 r R\right)^2}\right\}$$

$$\left\{X42,\ \text{CROSSPOINT OF INCENTER AND SYMMEDIAN POINT},\ X57,\ \text{ISOGONAL CONJUGATE OF } X(9),\ -\frac{4 r^2 R \left(l^4 r+2 l^2 r^3+r^5+l^4 R+9 l^2 r^2 R+4 r^4 R-24 l^2 r R^2-12 r^3 R^2-4 l^2 R^3-32 r^2 R^3+64 r R^4\right)}{(r-2 R)^2 \left(l^2+r^2-2 r R\right)^2}\right\}$$

$$\left\{X42,\ \text{CROSSPOINT OF INCENTER AND SYMMEDIAN POINT},\ X58,\ \text{ISOGONAL CONJUGATE OF } X(10),\ \frac{16 r^4 R^2 \left(2 l^4-16 l^2 r^2-2 r^4-16 l^2 r R-16 r^3 R+l^2 R^2-27 r^2 R^2-16 r R^3\right)}{\left(l^2-3 r^2-4 r R\right)^2 \left(l^2+r^2-2 r R\right)^2}\right\}$$

$$\left\{X42,\ \text{CROSSPOINT OF INCENTER AND SYMMEDIAN POINT},\ X59,\ \text{ISOGONAL CONJUGATE OF } X(11),\ -\left(\left(r^2 R^2 \left(14 l^6 r-62 l^4 r^3+58 l^2 r^5+6 r^7+5 l^6 R-141 l^4 r^2 R+263 l^2 r^4 R+89 r^6 R-192 l^4 r R^2+496 l^2 r^3 R^2+496 r^5 R^2-32 l^4 R^3+688 l^2 r^2 R^3+1232 r^4 R^3+704 l^2 r R^4+1088 r^3 R^4+64 l^2 R^5-512 r^2 R^5-1024 r R^6\right)\right) \Big/ \left((2 r-R) \left(l^2+r^2-2 r R\right)^2 \left(-l^2+r^2+5 r R+4 R^2\right)^2\right)\right)\right\}$$

$$\left\{X42,\ \text{CROSSPOINT OF INCENTER AND SYMMEDIAN POINT},\ X60,\ \text{ISOGONAL CONJUGATE OF } X(12),\ -\left(\left(r^2 R^2 \left(28 l^6 r^2-124 l^4 r^4+116 l^2 r^6+12 r^8+4 l^6 r R-228 l^4 r^3 R+428 l^2 r^5 R+148 r^7 R-l^6 R^2-183 l^4 r^2 R^2+581 l^2 r^4 R^2+699 r^6 R^2+336 l^2 r^3 R^3+1680 r^5 R^3+192 l^2 r^2 R^4+2048 r^4 R^4+1024 r^3 R^5\right)\right) \Big/ \left(\left(l^2+r^2-2 r R\right)^2 \left(2 l^2 r-2 r^3+l^2 R-7 r^2 R-7 r R^2\right)^2\right)\right)\right\}$$

$$\left\{X42,\ \text{CROSSPOINT OF INCENTER AND SYMMEDIAN POINT},\ X61,\ \text{ISOGONAL CONJUGATE OF } X(17),\ -\left(\left(12 r^2 R^2 \left(-l^6+4 \sqrt{3}\, l^5 r+9 l^4 r^2-32 \sqrt{3}\, l^3 r^3+45 l^2 r^4-4 \sqrt{3}\, l r^5+3 r^6+4 l^4 r R-32 \sqrt{3}\, l^3 r^2 R+104 l^2 r^3 R-32 \sqrt{3}\, l r^4 R+36 r^5 R-16 l^2 r^2 R^2-64 \sqrt{3}\, l r^3 R^2+144 r^4 R^2+192 r^3 R^3\right)\right) \Big/ \left(\left(3 l^2+2 \sqrt{3}\, l r-3 r^2-12 r R\right)^2 \left(l^2+r^2-2 r R\right)^2\right)\right)\right\}$$

$$\left\{X42,\ \text{CROSSPOINT OF INCENTER AND SYMMEDIAN POINT},\ X62,\ \text{ISOGONAL CONJUGATE OF } X(18),\ -\left(\left(12 r^2 R^2 \left(-l^6-4 \sqrt{3}\, l^5 r+9 l^4 r^2+32 \sqrt{3}\, l^3 r^3+45 l^2 r^4+4 \sqrt{3}\, l r^5+3 r^6+4 l^4 r R+32 \sqrt{3}\, l^3 r^2 R+104 l^2 r^3 R+32 \sqrt{3}\, l r^4 R+36 r^5 R-16 l^2 r^2 R^2+64 \sqrt{3}\, l r^3 R^2+144 r^4 R^2+192 r^3 R^3\right)\right) \Big/ \left(\left(3 l^2-2 \sqrt{3}\, l r-3 r^2-12 r R\right)^2 \left(l^2+r^2-2 r R\right)^2\right)\right)\right\}$$

$$\left\{X42,\ \text{CROSSPOINT OF INCENTER AND SYMMEDIAN POINT},\ X63,\ \text{ISOGONAL CONJUGATE OF } X(19),\ -\frac{1}{(r+R)^2 \left(l^2+r^2-2 r R\right)^2} R \left(-2 l^6 r-2 l^4 r^3+2 l^2 r^5+2 r^7-l^6 R+17 l^4 r^2 R+49 l^2 r^4 R+15 r^6 R+16 l^4 r R^2+56 l^2 r^3 R^2+24 r^5 R^2-16 r^4 R^3\right)\right\}$$

$$\left\{X42,\ \text{CROSSPOINT OF INCENTER AND SYMMEDIAN POINT},\ X64,\ \text{ISOGONAL CONJUGATE OF } X(20),\ \left(4 R^2 \left(3 l^8-10 l^6 r^2+7 l^4 r^4+4 l^2 r^6-36 l^6 r R+68 l^4 r^3 R+8 l^2 r^5 R-16 r^7 R-28 l^6 R^2+208 l^4 r^2 R^2-80 l^2 r^4 R^2-96 r^6 R^2+224 l^4 r R^3-384 l^2 r^3 R^3-192 r^5 R^3+64 l^4 R^4-576 l^2 r^2 R^4-64 r^4 R^4-256 l^2 r R^5+256 r^3 R^5+256 r^2 R^6\right)\right) \Big/ \left((1-r-2 R)^2 (1+r+2 R)^2 \left(l^2+r^2-2 r R\right)^2\right)\right\}$$

$$\left\{X42,\ \text{CROSSPOINT OF INCENTER AND SYMMEDIAN POINT},\ X65,\ \text{ORTHOCENTER OF THE INTOUCH TRIANGLE},\ -\frac{r^2 \left(2 l^4 r+4 l^2 r^3+2 r^5+l^4 R-6 l^2 r^2 R-7 r^4 R-28 l^2 r R^2-20 r^3 R^2-4 l^2 R^3+32 r^2 R^3+64 r R^4\right)}{R \left(-l^2-r^2+2 r R\right)^2}\right\}$$

$$\Big\{\text{X42, CROSSPOINT OF INCENTER AND SYMMEDIAN POINT, X66, ISOGONAL CONJUGATE OF X(22)}, \frac{1}{(l-r-2R)^2\,(l+r+2R)^2\,\left(l^2-r^2-4rR\right)^2\,\left(l^2+r^2-2rR\right)^2}$$
$$\left(6l^{12}r^2-8l^{10}r^4-10l^8r^6+16l^6r^8+2l^4r^{10}-8l^2r^{12}+2r^{14}-88l^{10}r^3R+40l^8r^5R+176l^6r^7R-80l^4r^9R-88l^2r^{11}R+40r^{13}R-l^{12}R^2-74l^{10}r^2R^2+545l^8r^4R^2+308l^6r^6R^2-863l^4r^8R^2-234l^2r^{10}R^2+319r^{12}R^2+20l^{10}rR^3+868l^8r^3R^3-1160l^6r^5R^3-2856l^4r^7R^3+884l^2r^9R^3+1220r^{11}R^3+4l^{10}R^4+168l^8r^2R^4-3480l^6r^4R^4-2880l^4r^6R^4+6804l^2r^8R^4+1688r^{10}R^4-64l^8rR^5-2208l^6r^3R^5+2144l^4r^5R^5+16544l^2r^7R^5-3616r^9R^5-96l^6r^2R^6+4848l^4r^4R^6+18368l^2r^6R^6-18960r^8R^6+1536l^4r^3R^7+8256l^2r^5R^7-32960r^7R^7+576l^2r^4R^8-27392r^6R^8-9216r^5R^9\right)\Big\}$$

$$\Big\{\text{X42, CROSSPOINT OF INCENTER AND SYMMEDIAN POINT, X67, ISOGONAL CONJUGATE OF X(23)}, \frac{1}{\left(l^2-r^2-4rR\right)^2\,\left(l^2+r^2-2rR\right)^2\,\left(2l^2-2r^2-8rR-9R^2\right)}$$
$$\left(l^{12}+14l^{10}r^2-5l^8r^4-28l^6r^6+7l^4r^8+14l^2r^{10}-3r^{12}-20l^{10}rR-148l^8r^3R-56l^6r^5R+200l^4r^7R+76l^2r^9R-52r^{11}R-4l^{10}R^2-20l^8r^2R^2+512l^6r^4R^2+736l^4r^6R^2-124l^2r^8R^2-332r^{10}R^2+64l^8rR^3+848l^6r^3R^3+304l^4r^5R^3-1808l^2r^7R^3-816r^9R^3+80l^6r^2R^4-1708l^4r^4R^4-4760l^2r^6R^4+420r^8R^4-1280l^4r^3R^5-4240l^2r^5R^5+6064r^7R^5-400l^2r^4R^6+10944r^6R^6+6400r^5R^7\right)\Big\}$$

$$\Big\{\text{X42, CROSSPOINT OF INCENTER AND SYMMEDIAN POINT, X68, PRASOLOV POINT}, \frac{1}{(l-r-2R)^2\,(l+r+2R)^2\,\left(l^2+r^2-2rR\right)^2}$$
$$\left(6l^8r^2+4l^6r^4-8l^4r^6-4l^2r^8+2r^{10}-40l^6r^3R-56l^4r^5R+8l^2r^7R+24r^9R+l^8R^2-68l^6r^2R^2-10l^4r^4R^2+156l^2r^6R^2+97r^8R^2-12l^6rR^3+252l^4r^3R^3+476l^2r^5R^3+84r^7R^3-4l^6R^4+256l^4r^2R^4+380l^2r^4R^4-456r^6R^4+32l^4rR^5-192l^2r^3R^5-1376r^5R^5+4l^4R^6-264l^2r^2R^6-1388r^4R^6-16l^2rR^7-464r^3R^7+16r^2R^8\right)\Big\}$$

$$\Big\{\text{X42, CROSSPOINT OF INCENTER AND SYMMEDIAN POINT, X69, SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE,}$$
$$\left(l^{10}+9l^8r^2+6l^6r^4-10l^4r^6-7l^2r^8+r^{10}-16l^8rR-64l^6r^3R-64l^4r^5R+16r^9R-16l^6r^2R^2+16l^4r^4R^2+112l^2r^6R^2+80r^8R^2+256l^4r^3R^3+448l^2r^5R^3+64r^7R^3+64l^2r^4R^4-512r^6R^4-1024r^5R^5\right)\Big/\left(\left(l^2-r^2-4rR\right)^2\left(l^2+r^2-2rR\right)^2\right)\Big\}$$

$$\Big\{\text{X42, CROSSPOINT OF INCENTER AND SYMMEDIAN POINT, X70, ISOGONAL CONJUGATE OF X(26)},$$
$$\left(6l^{12}r^2-8l^{10}r^4-10l^8r^6+16l^6r^8+2l^4r^{10}-8l^2r^{12}+2r^{14}-88l^{10}r^3R+40l^8r^5R+176l^6r^7R-80l^4r^9R-88l^2r^{11}R+40r^{13}R-96l^{10}r^2R^2+552l^8r^4R^2+352l^6r^6R^2-880l^4r^8R^2-256l^2r^{10}R^2+328r^{12}R^2+1104l^8r^3R^3-1024l^6r^5R^3-3232l^4r^7R^3+768l^2r^9R^3+1360r^{11}R^3-l^{10}R^4+569l^8r^2R^4-4266l^6r^4R^4-4478l^4r^6R^4+7211l^2r^8R^4+2501r^{10}R^4+16l^8rR^5-4664l^6r^3R^5+920l^4r^5R^5+20760l^2r^7R^5-1736r^9R^5+6l^8R^6-1592l^6r^2R^6+8524l^4r^4R^6+29400l^2r^6R^6-19634r^8R^6-72l^6rR^7+7416l^4r^3R^7+19400l^2r^5R^7-45688r^7R^7-9l^6R^8+1961l^4r^2R^8+2525l^2r^4R^8-54741r^6R^8+72l^4rR^9-2640l^2r^3R^9-35608r^5R^9+4l^4R^{10}-816l^2r^2R^{10}-11348r^4R^{10}-16l^2rR^{11}-1328r^3R^{11}+16r^2R^{12}\right)\Big/$$
$$\left(\left(l^2+r^2-2rR\right)^2\left(l^4-2l^2r^2+r^4-8l^2rR+8r^3R-6l^2R^2+22r^2R^2+24rR^3+7R^4\right)^2\right)\Big\}$$

$$\Big\{\text{X42, CROSSPOINT OF INCENTER AND SYMMEDIAN POINT, X71, ISOGONAL CONJUGATE OF X(27)},$$
$$\frac{4R^2\left(l^2+r^2+2rR\right)^2\left(3l^4-14l^2r^2-r^4-28l^2rR-12r^3R+4l^2R^2-48r^2R^2-64rR^3\right)}{\left(l^2+r^2-2rR\right)^2\left(l^2+r^2+6rR+8R^2\right)^2}\Big\}$$

$$\Big\{\text{X42, CROSSPOINT OF INCENTER AND SYMMEDIAN POINT, X72, ISOGONAL CONJUGATE OF X(28)},$$
$$\frac{l^6r+l^4r^3-l^2r^5-r^7+l^6R-8l^4r^2R-11l^2r^4R-2r^6R-16l^4rR^2-8l^2r^3R^2+4r^4R^3}{R\left(-l^2-r^2+2rR\right)^2}\Big\}$$

$$\left\{\text{X42, CROSSPOINT OF INCENTER AND SYMMEDIAN POINT, X73, CROSSPOINT OF INCENTER AND CIRCUMCENTER, } -\frac{16 r^2 R^3 \left(2 l^4 r+4 l^2 r^3+2 r^5+l^4 R-6 l^2 r^2 R-7 r^4 R-28 l^2 r R^2-20 r^3 R^2-4 l^2 R^3+32 r^2 R^3+64 r R^4\right)}{\left(l^2+r^2-2 r R\right)^2 \left(l^2+r^2-2 r R-4 R^2\right)^2}\right\}$$

$$\left\{\text{X42, CROSSPOINT OF INCENTER AND SYMMEDIAN POINT, X74, ISOGONAL CONJUGATE OF EULER INFINITY POINT, } \left(R^2 \left(9 l^6-57 l^4 r^2+3 l^2 r^4+5 r^6-72 l^4 r R+144 l^2 r^3 R+88 r^5 R-36 l^4 R^2+336 l^2 r^2 R^2+212 r^4 R^2+144 l^2 r R^3+48 r^3 R^3-144 r^2 R^4\right)\right) \Big/ \left(\left(l^2+r^2-2 r R\right)^2 \left(2 l^2-2 r^2-8 r R-9 R^2\right)\right)\right\}$$

$$\left\{\text{X42, CROSSPOINT OF INCENTER AND SYMMEDIAN POINT, X75, ISOTOMIC CONJUGATE OF INCENTER, } \left(l^{10}+5 l^8 r^2+10 l^6 r^4+10 l^4 r^6+5 l^2 r^8+r^{10}-16 l^8 r R+64 l^4 r^5 R+64 l^2 r^7 R+16 r^9 R+16 l^6 r^2 R^2-16 l^4 r^4 R^2+48 l^2 r^6 R^2+80 r^8 R^2-256 l^4 r^3 R^3-64 l^2 r^5 R^3+64 r^7 R^3+64 l^2 r^4 R^4-512 r^6 R^4-1024 r^5 R^5\right) \Big/ \left(\left(l^2+r^2-2 r R\right)^2 \left(l^2+r^2+4 r R\right)^2\right)\right\}$$

$$\left\{\text{X42, CROSSPOINT OF INCENTER AND SYMMEDIAN POINT, X76, 3rd BROCARD POINT, } \frac{1}{\left(l^2+r^2-2 r R\right)^2 \left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)^2} \left(l^{14}+7 l^{12} r^2+21 l^{10} r^4+35 l^8 r^6+35 l^6 r^8+21 l^4 r^{10}+7 l^2 r^{12}+r^{14}-24 l^{12} r R-96 l^{10} r^3 R-120 l^8 r^5 R+120 l^4 r^9 R+96 l^2 r^{11} R+24 r^{13} R+128 l^{10} r^2 R^2+352 l^8 r^4 R^2+256 l^6 r^6 R^2+192 l^4 r^8 R^2+384 l^2 r^{10} R^2+224 r^{12} R^2+128 l^8 r^3 R^3-192 l^6 r^5 R^3-832 l^4 r^7 R^3+448 l^2 r^9 R^3+960 r^{11} R^3-2240 l^6 r^4 R^4-1152 l^4 r^6 R^4+1344 l^2 r^8 R^4+1280 r^{10} R^4+2560 l^4 r^5 R^5+7680 l^2 r^7 R^5-4096 r^9 R^5+9216 l^2 r^6 R^6-16384 r^8 R^6-16384 r^7 R^7\right)\right\}$$

$$\left\{\text{X42, CROSSPOINT OF INCENTER AND SYMMEDIAN POINT, X77, ISOGONAL CONJUGATE OF X(33), } \left(r^2 R^2 \left(5 l^6+7 l^4 r^2-13 l^2 r^4+r^6-112 l^4 r R-32 l^2 r^3 R+16 r^5 R-32 l^4 R^2+144 l^2 r^2 R^2+80 r^4 R^2+704 l^2 r R^3+64 r^3 R^3+64 l^2 R^4-512 r^2 R^4-1024 r R^5\right)\right) \Big/ \left(\left(l^2+r^2-2 r R\right)^2 \left(l^2-r R-4 R^2\right)^2\right)\right\}$$

$$\left\{\text{X42, CROSSPOINT OF INCENTER AND SYMMEDIAN POINT, X78, ISOGONAL CONJUGATE OF X(34), } \frac{(-1+r)^2 (1+r)^2 R^2 \left(l^2+5 r^2-16 r R\right)}{(r-R)^2 \left(l^2+r^2-2 r R\right)^2}\right\}$$

$$\left\{\text{X42, CROSSPOINT OF INCENTER AND SYMMEDIAN POINT, X79, ISOGONAL CONJUGATE OF X(35), } \left(4 r^2 \left(-2 l^6-2 l^4 r^2+2 l^2 r^4+2 r^6+14 l^4 r R+28 l^2 r^3 R+14 r^5 R+6 l^4 R^2+24 l^2 r^2 R^2+18 r^4 R^2+12 l^2 r R^3-60 r^3 R^3+9 l^2 R^4-171 r^2 R^4-144 r R^5\right)\right) \Big/ \left((2 r+3 R)^2 \left(l^2+r^2-2 r R\right)^2\right)\right\}$$

$$\left\{\text{X42, CROSSPOINT OF INCENTER AND SYMMEDIAN POINT, X80, REFLECTION OF INCENTER IN FEUERBACH POINT, } \frac{4 r^2 \left(2 l^4 r+4 l^2 r^3+2 r^5-14 l^2 r R^2-14 r^3 R^2-l^2 R^3-5 r^2 R^3+16 r R^4\right)}{(2 r-R) \left(l^2+r^2-2 r R\right)^2}\right\}$$

$$\left\{\text{X42, CROSSPOINT OF INCENTER AND SYMMEDIAN POINT, X81, CEVAPOINT OF INCENTER AND SYMMEDIAN POINT, } -\frac{r^2 (2 r-R) R \left(l^6+3 l^4 r^2+3 l^2 r^4+r^6-16 l^4 r R+24 l^2 r^3 R+8 r^5 R+16 r^4 R^2\right)}{\left(l^2+r^2-2 r R\right)^2 \left(l^2-r^2-r R\right)^2}\right\}$$

$$\left\{\text{X42, CROSSPOINT OF INCENTER AND SYMMEDIAN POINT, X82, ISOGONAL CONJUGATE OF X(38), } -\left(\left(r^2 R \left(4 l^{10} r+12 l^8 r^3+8 l^6 r^5-8 l^4 r^7-12 l^2 r^9-4 r^{11}-l^{10} R-117 l^8 r^2 R+246 l^6 r^4 R-490 l^4 r^6 R+123 l^2 r^8 R-49 r^{10} R+32 l^8 r R^2+944 l^6 r^3 R^2-2608 l^4 r^5 R^2+1552 l^2 r^7 R^2-48 r^9 R^2-400 l^6 r^2 R^3-3184 l^4 r^4 R^3+3792 l^2 r^6 R^3+1968 r^8 R^3+2944 l^4 r^3 R^4-2112 l^2 r^5 R^4+12224 r^7 R^4-11840 l^2 r^4 R^5+29184 r^6 R^5+25600 r^5 R^6\right)\right) \Big/ \left(\left(l^2+r^2-2 r R\right)^2 \left(l^4-4 l^2 r^2+3 r^4-9 l^2 r R+19 r^3 R+28 r^2 R^2\right)^2\right)\right)\right\}$$

$$\{X42,\ \text{CROSSPOINT OF INCENTER AND SYMMEDIAN POINT},\ X83,\ \text{CEVAPOINT OF CENTROID AND SYMMEDIAN POINT},$$
$$\left(l^{14}-l^{12}r^2-11\,l^{10}r^4-5\,l^8r^6+35\,l^6r^8+61\,l^4r^{10}+39\,l^2r^{12}+9\,r^{14}-24\,l^{12}r\,R+64\,l^{10}r^3R+168\,l^8r^5R+64\,l^6r^7R+184\,l^4r^9R+384\,l^2r^{11}R+184\,r^{13}R+96\,l^{10}r^2R^2-96\,l^8r^4R^2-1792\,l^6r^6R^2+1536\,l^4r^8R^2+416\,l^2r^{10}R^2+1376\,r^{12}R^2+896\,l^8r^3R^3-4288\,l^6r^5R^3+10\,688\,l^4r^7R^3-5184\,l^2r^9R^3+3520\,r^{11}R^3-6336\,l^6r^4R^4+16\,256\,l^4r^6R^4-7872\,l^2r^8R^4-8960\,r^{10}R^4-1536\,l^4r^5R^5+40\,448\,l^2r^7R^5-77\,824\,r^9R^5+82\,944\,l^2r^6R^6-180\,224\,r^8R^6-147\,456\,r^7R^7\right)\Big/\left(\left(l^2+r^2-2\,r\,R\right)^2\left(5\,l^4-6\,l^2r^2+5\,r^4-40\,l^2r\,R+40\,r^3R+80\,r^2R^2\right)^2\right)\}$$

$$\{X42,\ \text{CROSSPOINT OF INCENTER AND SYMMEDIAN POINT},\ X84,\ \text{ISOGONAL CONJUGATE OF } X(40),$$
$$-\frac{1}{r^2\left(l^2+r^2-2\,r\,R\right)^2}4\,R\left(-l^6r-2\,l^4r^3-l^2r^5+l^6R+8\,l^4r^2R+12\,l^2r^4R+r^6R-4\,l^4r\,R^2-12\,l^2r^3R^2+4\,r^5R^2-4\,l^4R^3-4\,l^2r^2R^3-4\,r^4R^3+16\,l^2r\,R^4+16\,r^3R^4-16\,r^2R^5\right)\}$$

$$\{X42,\ \text{CROSSPOINT OF INCENTER AND SYMMEDIAN POINT},\ X85,$$
$$\text{ISOTOMIC CONJUGATE OF } X(9),\ \frac{1}{\left(l^2+r^2-2\,r\,R\right)^2\left(l^2+r^2+8\,r\,R+16\,R^2\right)^2}$$
$$\left(l^{10}+5\,l^8r^2+10\,l^6r^4+10\,l^4r^6+5\,l^2r^8+r^{10}-24\,l^8r\,R-16\,l^6r^3R+64\,l^4r^5R+80\,l^2r^7R+24\,r^9R+96\,l^6r^2R^2+288\,l^4r^4R^2+416\,l^2r^6R^2+224\,r^8R^2+64\,l^6r\,R^3-64\,l^4r^3R^3+960\,l^2r^5R^3+960\,r^7R^3-1024\,l^4r^2R^4+1856\,l^2r^4R^4+1280\,r^6R^4+3584\,l^2r^3R^5-4096\,r^5R^5+1024\,l^2r^2R^6-16\,384\,r^4R^6-16\,384\,r^3R^7\right)\}$$

$$\{X42,\ \text{CROSSPOINT OF INCENTER AND SYMMEDIAN POINT},\ X86,\ \text{CEVAPOINT OF INCENTER AND CENTROID},$$
$$\left(l^{10}+5\,l^8r^2+10\,l^6r^4+10\,l^4r^6+5\,l^2r^8+r^{10}+80\,l^6r^3R+176\,l^4r^5R+112\,l^2r^7R+16\,r^9R-176\,l^6r^2R^2+304\,l^4r^4R^2+304\,l^2r^6R^2+80\,r^8R^2-1152\,l^4r^3R^3-320\,l^2r^5R^3+64\,r^7R^3-1984\,l^2r^4R^4-512\,r^6R^4-1024\,r^5R^5\right)\Big/\left(\left(l^2+r^2-2\,r\,R\right)^2\left(5\,l^2+r^2+4\,r\,R\right)^2\right)\}$$

$$\{X42,\ \text{CROSSPOINT OF INCENTER AND SYMMEDIAN POINT},\ X87,\ X(2)\text{-CROSS CONJUGATE OF } X(1),$$
$$\left(4\,r^2R^2\left(l^{10}-7\,l^8r^2-38\,l^6r^4-62\,l^4r^6-43\,l^2r^8-11\,r^{10}+128\,l^6r^3R+128\,l^4r^5R-128\,l^2r^7R-128\,r^9R-224\,l^6r^2R^2+2080\,l^4r^4R^2-2336\,l^2r^6R^2-544\,r^8R^2-768\,l^4r^3R^3-2048\,l^2r^5R^3-1280\,r^7R^3+4352\,l^2r^4R^4-2816\,r^6R^4-4096\,r^5R^5\right)\right)\Big/\left(\left(l^2+r^2-2\,r\,R\right)^2\left(l^4+2\,l^2r^2+r^4-20\,l^2r\,R+12\,r^3R+32\,r^2R^2\right)^2\right)\}$$

$$\{X42,\ \text{CROSSPOINT OF INCENTER AND SYMMEDIAN POINT},\ X88,\ \text{ISOGONAL CONJUGATE OF } X(44),$$
$$-\left(\left(r^2R\left(6\,l^6r+66\,l^4r^3+114\,l^2r^5+54\,r^7-l^6R+13\,l^4r^2R+141\,l^2r^4R+63\,r^6R-32\,l^4r\,R^2-2184\,l^2r^3R^2-1512\,r^5R^2+192\,l^2r^2R^3-1296\,r^4R^3+9216\,r^3R^4\right)\right)\Big/\left(\left(l^2+3\,r^2-15\,r\,R\right)^2\left(l^2+r^2-2\,r\,R\right)^2\right)\right)\}$$

$$\{X42,\ \text{CROSSPOINT OF INCENTER AND SYMMEDIAN POINT},\ X89,\ \text{ISOGONAL CONJUGATE OF } X(45),$$
$$-\left(\left(r^2R\left(12\,l^6r+132\,l^4r^3+228\,l^2r^5+108\,r^7-l^6R-167\,l^4r^2R+1461\,l^2r^4R+603\,r^6R-8\,l^4r\,R^2-1632\,l^2r^3R^2-216\,r^5R^2+240\,l^2r^2R^3-3024\,r^4R^3+2304\,r^3R^4\right)\right)\Big/\left(\left(l^2+r^2-2\,r\,R\right)^2\left(2\,l^2-6\,r^2+3\,r\,R\right)^2\right)\right)\}$$

$$\{X42,\ \text{CROSSPOINT OF INCENTER AND SYMMEDIAN POINT},\ X90,\ X(3)\text{-CROSS CONJUGATE OF } X(1),$$
$$\left(4\,r^2R\left(l^6r+2\,l^4r^3+l^2r^5-6\,l^4r^2R-11\,l^2r^4R-r^6R-5\,l^4r\,R^2-18\,l^2r^3R^2-9\,r^5R^2-6\,l^2r^2R^3-22\,r^4R^3+12\,l^2r\,R^4+l^2R^5+37\,r^2R^5-16\,r\,R^6\right)\right)\Big/\left(\left(l^2+r^2-2\,r\,R\right)^2\left(r^2+2\,r\,R-R^2\right)^2\right)\}$$

$$\{X42,\ \text{CROSSPOINT OF INCENTER AND SYMMEDIAN POINT},\ X91,$$
$$\text{ISOGONAL CONJUGATE OF } X(47),\ \frac{1}{\left(l^2+r^2-2\,r\,R\right)^2\left(l^2r+r^3-l^2R+3\,r^2R+2\,r\,R^2+2\,R^3\right)^2}$$
$$r^2\left(l^{10}+5\,l^8r^2+10\,l^6r^4+10\,l^4r^6+5\,l^2r^8+r^{10}-20\,l^8r\,R-16\,l^6r^3R+40\,l^4r^5R+48\,l^2r^7R+12\,r^9R-8\,l^8R^2+32\,l^6r^2R^2+16\,l^4r^4R^2+32\,l^2r^6R^2+56\,r^8R^2+160\,l^6r\,R^3-144\,l^4r^3R^3-64\,l^2r^5R^3+112\,r^7R^3+24\,l^6R^4-440\,l^4r^2R^4+328\,l^2r^4R^4-40\,r^6R^4-464\,l^4r\,R^5+1120\,l^2r^3R^5-720\,r^5R^5-32\,l^4R^6+1216\,l^2r^2R^6-1568\,r^4R^6+576\,l^2r\,R^7-1664\,r^3R^7+16\,l^2R^8-944\,r^2R^8-256\,r\,R^9\right)\}$$

$$\Big\{X42,\ \text{CROSSPOINT OF INCENTER AND SYMMEDIAN POINT},\ X92,$$

$$\text{CEVAPOINT OF INCENTER AND CLAWSON POINT},\ \frac{1}{\left(l^2+r^2-2\,r\,R\right)^2\left(l^2+r^2-4\,R^2\right)^2}$$

$$\left(l^{10}+5\,l^8\,r^2+10\,l^6\,r^4+10\,l^4\,r^6+5\,l^2\,r^8+r^{10}-24\,l^8\,r\,R-32\,l^6\,r^3\,R+16\,l^4\,r^5\,R+32\,l^2\,r^7\,R+8\,r^9\,R-8\,l^8\,R^2+80\,l^6\,r^2\,R^2+64\,l^4\,r^4\,R^2-16\,l^2\,r^6\,R^2+8\,r^8\,R^2+160\,l^6\,r\,R^3-64\,l^4\,r^3\,R^3-160\,l^2\,r^5\,R^3-64\,r^7\,R^3+16\,l^6\,R^4-336\,l^4\,r^2\,R^4-16\,l^2\,r^4\,R^4-112\,r^6\,R^4-256\,l^4\,r\,R^5+128\,l^2\,r^3\,R^5+128\,r^5\,R^5+256\,r^4\,R^6\right)\Big\}$$

$$\Big\{X42,\ \text{CROSSPOINT OF INCENTER AND SYMMEDIAN POINT},\ X93,\ \text{ISOGONAL CONJUGATE OF } X(49),$$

$$\Big(l^{14}+7\,l^{12}\,r^2+21\,l^{10}\,r^4+35\,l^8\,r^6+35\,l^6\,r^8+21\,l^4\,r^{10}+7\,l^2\,r^{12}+r^{14}-24\,l^{12}\,r\,R-96\,l^{10}\,r^3\,R-120\,l^8\,r^5\,R+120\,l^4\,r^9\,R+96\,l^2\,r^{11}\,R+24\,r^{13}\,R-10\,l^{12}\,R^2+48\,l^{10}\,r^2\,R^2+150\,l^8\,r^4\,R^2+48\,l^6\,r^6\,R^2+130\,l^4\,r^8\,R^2+416\,l^2\,r^{10}\,R^2+242\,r^{12}\,R^2+200\,l^{10}\,r\,R^3+936\,l^8\,r^3\,R^3+592\,l^6\,r^5\,R^3-560\,l^4\,r^7\,R^3+872\,l^2\,r^9\,R^3+1288\,r^{11}\,R^3+32\,l^{10}\,R^4-100\,l^8\,r^2\,R^4-3360\,l^6\,r^4\,R^4-2760\,l^4\,r^6\,R^4+2976\,l^2\,r^8\,R^4+3532\,r^{10}\,R^4-512\,l^8\,r\,R^5-5968\,l^6\,r^3\,R^5-1776\,l^4\,r^5\,R^5+14\,096\,l^2\,r^7\,R^5+2224\,r^9\,R^5-34\,l^8\,R^6-1556\,l^6\,r^2\,R^6+10\,832\,l^4\,r^4\,R^6+34\,516\,l^2\,r^6\,R^6-16\,750\,r^8\,R^6+408\,l^6\,r\,R^7+13\,672\,l^4\,r^3\,R^7+36\,872\,l^2\,r^5\,R^7-59\,336\,r^7\,R^7+7\,l^6\,R^8+3969\,l^4\,r^2\,R^8+10\,269\,l^2\,r^4\,R^8-93\,341\,r^6\,R^8-56\,l^4\,r\,R^9-4912\,l^2\,r^3\,R^9-77\,624\,r^5\,R^9+4\,l^4\,R^{10}-2192\,l^2\,r^2\,R^{10}-31\,700\,r^4\,R^{10}-16\,l^2\,r\,R^{11}-4912\,r^3\,R^{11}+16\,r^2\,R^{12}\Big)\Big/\left(\left(l^2+r^2-2\,r\,R\right)^2\left(l^4+2\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-8\,l^2\,R^2+24\,r^2\,R^2+32\,r\,R^3+13\,R^4\right)^2\right)\Big\}$$

$$\Big\{X42,\ \text{CROSSPOINT OF INCENTER AND SYMMEDIAN POINT},\ X94,\ \text{ISOGONAL CONJUGATE OF } X(50),$$

$$\Big(l^{14}+7\,l^{12}\,r^2+21\,l^{10}\,r^4+35\,l^8\,r^6+35\,l^6\,r^8+21\,l^4\,r^{10}+7\,l^2\,r^{12}+r^{14}-24\,l^{12}\,r\,R-96\,l^{10}\,r^3\,R-120\,l^8\,r^5\,R+120\,l^4\,r^9\,R+96\,l^2\,r^{11}\,R+24\,r^{13}\,R-12\,l^{12}\,R^2+44\,l^{10}\,r^2\,R^2+160\,l^8\,r^4\,R^2+88\,l^6\,r^6\,R^2+180\,l^4\,r^8\,R^2+444\,l^2\,r^{10}\,R^2+248\,r^{12}\,R^2+240\,l^{10}\,r\,R^3+944\,l^8\,r^3\,R^3+480\,l^6\,r^5\,R^3-544\,l^4\,r^7\,R^3+1072\,l^2\,r^9\,R^3+1392\,r^{11}\,R^3+54\,l^{10}\,R^4-150\,l^8\,r^2\,R^4-3332\,l^6\,r^4\,R^4-2796\,l^4\,r^6\,R^4+3534\,l^2\,r^8\,R^4+4226\,r^{10}\,R^4-864\,l^8\,r\,R^5-6960\,l^6\,r^3\,R^5-1232\,l^4\,r^5\,R^5+15\,216\,l^2\,r^7\,R^5+4208\,r^9\,R^5-108\,l^8\,R^6-2052\,l^6\,r^2\,R^6+13\,596\,l^4\,r^4\,R^6+38\,292\,l^2\,r^6\,R^6-16\,672\,r^8\,R^6+1296\,l^6\,r\,R^7+22\,032\,l^4\,r^3\,R^7+45\,936\,l^2\,r^5\,R^7-75\,664\,r^7\,R^7+81\,l^6\,R^8+8775\,l^4\,r^2\,R^8+14\,859\,l^2\,r^4\,R^8-144\,171\,r^6\,R^8-648\,l^4\,r\,R^9-14\,256\,l^2\,r^3\,R^9-152\,424\,r^5\,R^9-9072\,l^2\,r^2\,R^{10}-86\,832\,r^4\,R^{10}-20\,736\,r^3\,R^{11}\Big)\Big/\left(\left(l^2+r^2-2\,r\,R\right)^2\left(l^4+2\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-12\,l^2\,R^2+28\,r^2\,R^2+48\,r\,R^3+27\,R^4\right)^2\right)\Big\}$$

$$\Big\{X42,\ \text{CROSSPOINT OF INCENTER AND SYMMEDIAN POINT},\ X95,\ \text{CEVAPOINT OF CENTROID AND CIRCUMCENTER},$$

$$\Big(l^{14}+23\,l^{12}\,r^2+101\,l^{10}\,r^4+195\,l^8\,r^6+195\,l^6\,r^8+101\,l^4\,r^{10}+23\,l^2\,r^{12}+r^{14}-24\,l^{12}\,r\,R-352\,l^{10}\,r^3\,R-632\,l^8\,r^5\,R+632\,l^4\,r^9\,R+352\,l^2\,r^{11}\,R+24\,r^{13}\,R-8\,l^{12}\,R^2+248\,l^8\,r^4\,R^2-5504\,l^6\,r^6\,R^2-216\,l^4\,r^8\,R^2+1664\,l^2\,r^{10}\,R^2+232\,r^{12}\,R^2+160\,l^{10}\,r\,R^3+1568\,l^8\,r^3\,R^3+4096\,l^6\,r^5\,R^3-4992\,l^4\,r^7\,R^3+1632\,l^2\,r^9\,R^3+1120\,r^{11}\,R^3+16\,l^{10}\,R^4-240\,l^8\,r^2\,R^4-992\,l^6\,r^4\,R^4+2784\,l^4\,r^6\,R^4-7344\,l^2\,r^8\,R^4+2448\,r^{10}\,R^4-256\,l^8\,r\,R^5-3584\,l^6\,r^3\,R^5-4608\,l^4\,r^5\,R^5-15\,360\,l^2\,r^7\,R^5-768\,r^9\,R^5-256\,l^6\,r^2\,R^6+7936\,l^4\,r^4\,R^6+3328\,l^2\,r^6\,R^6-17\,152\,r^8\,R^6+4096\,l^4\,r^3\,R^7+17\,408\,l^2\,r^5\,R^7-39\,936\,r^7\,R^7+1024\,l^2\,r^4\,R^8-40\,960\,r^6\,R^8-16\,384\,r^5\,R^9\Big)\Big/\left(\left(l^2+r^2-2\,r\,R\right)^2\left(l^4+18\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-4\,l^2\,R^2+20\,r^2\,R^2+16\,r\,R^3\right)^2\right)\Big\}$$

$$\Big\{X42,\ \text{CROSSPOINT OF INCENTER AND SYMMEDIAN POINT},\ X96,\ \text{ISOGONAL CONJUGATE OF } X(52),$$

$$-\Big(\Big(l^{14}-9\,l^{12}\,r^2-59\,l^{10}\,r^4-125\,l^8\,r^6-125\,l^6\,r^8-59\,l^4\,r^{10}-9\,l^2\,r^{12}+r^{14}-24\,l^{12}\,r\,R+160\,l^{10}\,r^3\,R+392\,l^8\,r^5\,R-392\,l^4\,r^9\,R-160\,l^2\,r^{11}\,R+24\,r^{13}\,R-12\,l^{12}\,R^2+328\,l^{10}\,r^2\,R^2-836\,l^8\,r^4\,R^2+3056\,l^6\,r^6\,R^2-1044\,l^4\,r^8\,R^2-952\,l^2\,r^{10}\,R^2+228\,r^{12}\,R^2+240\,l^{10}\,r\,R^3-2480\,l^8\,r^3\,R^3+4256\,l^6\,r^5\,R^3-4512\,l^4\,r^7\,R^3-2192\,l^2\,r^9\,R^3+1104\,r^{11}\,R^3+56\,l^{10}\,R^4-2248\,l^8\,r^2\,R^4+9104\,l^6\,r^4\,R^4-16\,560\,l^4\,r^6\,R^4+440\,l^2\,r^8\,R^4+2808\,r^{10}\,R^4-896\,l^8\,r\,R^5+10\,816\,l^6\,r^3\,R^5-23\,488\,l^4\,r^5\,R^5+13\,760\,l^2\,r^7\,R^5+2880\,r^9\,R^5-128\,l^8\,R^6+5984\,l^6\,r^2\,R^6-24\,928\,l^4\,r^4\,R^6+32\,032\,l^2\,r^6\,R^6-2976\,r^8\,R^6+1536\,l^6\,r\,R^7-17\,920\,l^4\,r^3\,R^7+33\,024\,l^2\,r^5\,R^7-13\,056\,r^7\,R^7+144\,l^6\,R^8-6800\,l^4\,r^2\,R^8+21\,936\,l^2\,r^4\,R^8-17\,456\,r^6\,R^8-1152\,l^4\,r\,R^9+10\,496\,l^2\,r^3\,R^9-11\,392\,r^5\,R^9-64\,l^4\,R^{10}+2816\,l^2\,r^2\,R^{10}-4288\,r^4\,R^{10}+256\,l^2\,r\,R^{11}-1280\,r^3\,R^{11}-256\,r^2\,R^{12}\Big)\Big/\left(\left(l^2+r^2-2\,r\,R\right)^2\left(l^4-14\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R+16\,r^2\,R^2-4\,R^4\right)^2\right)\Big)\Big\}$$

$$\{X42,\ \text{CROSSPOINT OF INCENTER AND SYMMEDIAN POINT},\ X97,\ \text{ISOGONAL CONJUGATE OF } X(53),$$
$$\big(R^2\big(6 l^{10} r^2 + 70 l^8 r^4 - 660 l^6 r^6 + 284 l^4 r^8 - 18 l^2 r^{10} - 2 r^{12} - 80 l^8 r^3 R - 672 l^6 r^5 R + 1408 l^4 r^7 R - 96 l^2 r^9 R - 48 r^{11} R + l^{10} R^2 - 19 l^8 r^2 R^2 - 474 l^6 r^4 R^2 + 3422 l^4 r^6 R^2 + 57 l^2 r^8 R^2 - 491 r^{10} R^2 - 16 l^8 r R^3 + 144 l^6 r^3 R^3 + 3408 l^4 r^5 R^3 + 1456 l^2 r^7 R^3 - 2816 r^9 R^3 - 8 l^8 R^4 - 112 l^6 r^2 R^4 + 2464 l^4 r^4 R^4 + 3824 l^2 r^6 R^4 - 10\,008 r^8 R^4 + 96 l^6 r R^5 + 1312 l^4 r^3 R^5 + 3616 l^2 r^5 R^5 - 22\,944 r^7 R^5 + 16 l^6 R^6 + 880 l^4 r^2 R^6 - 208 l^2 r^4 R^6 - 34\,096 r^6 R^6 - 128 l^4 r R^7 - 2816 l^2 r^3 R^7 - 31\,872 r^5 R^7 - 1792 l^2 r^2 R^8 - 17\,152 r^4 R^8 - 4096 r^3 R^9\big)\big) \big/ \big(\big(l^2 + r^2 - 2 r R\big)^2 \big(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 7 l^2 R^2 + 23 r^2 R^2 + 28 r R^3 + 12 R^4\big)^2\big)\}$$

$$\{X42,\ \text{CROSSPOINT OF INCENTER AND SYMMEDIAN POINT},\ X98,$$
$$\text{TarryPoint},\ -\frac{1}{\big(l^2 + r^2 - 2 r R\big)^2 \big(l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\big)}$$
$$\big(l^{10} + 5 l^8 r^2 + 10 l^6 r^4 + 10 l^4 r^6 + 5 l^2 r^8 + r^{10} - 16 l^8 r R - 32 l^6 r^3 R + 32 l^2 r^7 R + 16 r^9 R - 4 l^8 R^2 + 72 l^6 r^2 R^2 - 208 l^4 r^4 R^2 + 56 l^2 r^6 R^2 + 84 r^8 R^2 + 48 l^6 r R^3 - 208 l^4 r^3 R^3 + 144 l^2 r^5 R^3 + 144 r^7 R^3 - 208 l^4 r^2 R^4 + 544 l^2 r^4 R^4 - 80 r^6 R^4 + 384 l^2 r^3 R^5 - 384 r^5 R^5 - 256 r^4 R^6\big)\}$$

$$\{X42,\ \text{CROSSPOINT OF INCENTER AND SYMMEDIAN POINT},\ X99,\ \text{STEINER POINT},$$
$$\big(l^{10} + 5 l^8 r^2 + 10 l^6 r^4 + 10 l^4 r^6 + 5 l^2 r^8 + r^{10} - 16 l^8 r R - 32 l^6 r^3 R + 32 l^2 r^7 R + 16 r^9 R - 16 l^6 r^2 R^2 + 240 l^4 r^4 R^2 + 80 l^2 r^6 R^2 + 80 r^8 R^2 + 256 l^4 r^3 R^3 + 576 l^2 r^5 R^3 + 64 r^7 R^3 + 64 l^2 r^4 R^4 - 512 r^6 R^4 - 1024 r^5 R^5\big) \big/ \big(\big(l^2 + r^2 - 2 r R\big)^2 \big(l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\big)\big)\}$$

$$\{X42,\ \text{CROSSPOINT OF INCENTER AND SYMMEDIAN POINT},\ X100,\ \text{ANTICOMPLEMENT OF FEUERBACH POINT},$$
$$-\frac{R\big(l^6 + 3 l^4 r^2 + 3 l^2 r^4 + r^6 - 16 l^4 r R + 24 l^2 r^3 R + 8 r^5 R + 16 r^4 R^2\big)}{(2 r - R)\big(l^2 + r^2 - 2 r R\big)^2}\}$$

$$\{X43,\ X(6)\text{-CEVA CONJUGATE OF } X(1),\ X44,\ X(6)\text{-LINE CONJUGATE OF } X(1),$$
$$\big(4 r^2 R\big(3 l^6 r + 15 l^4 r^3 + 21 l^2 r^5 + 9 r^7 + l^6 R - 34 l^4 r^2 R - 183 l^2 r^4 R + 108 r^6 R - 16 l^4 r R^2 - 96 l^2 r^3 R^2 + 432 r^5 R^2 + 576 r^4 R^3\big)\big) \big/ \big(\big(l^2 - 3 r^2 - 12 r R\big)^2 \big(l^2 + r^2 - 8 r R\big)^2\big)\}$$

$$\{X43,\ X(6)\text{-CEVA CONJUGATE OF } X(1),\ X45,\ X(9)\text{-BETH CONJUGATE OF } X(1),$$
$$\big(4 r^2 R\big(15 l^6 r + 39 l^4 r^3 + 33 l^2 r^5 + 9 r^7 + 25 l^6 R - 106 l^4 r^2 R - 87 l^2 r^4 R + 108 r^6 R - 400 l^4 r R^2 + 96 l^2 r^3 R^2 + 432 r^5 R^2 + 576 r^4 R^3\big)\big) \big/ \big(\big(l^2 + r^2 - 8 r R\big)^2 \big(l^2 + 3 r^2 + 12 r R\big)^2\big)\}$$

$$\{X43,\ X(6)\text{-CEVA CONJUGATE OF } X(1),\ X46,\ X(4)\text{-CEVA CONJUGATE OF } X(1),$$
$$\frac{4 r^2 R^2\big(-l^4 - 10 l^2 r^2 + 7 r^4 + 20 l^2 r R + 20 r^3 R + 4 l^2 R^2 - 12 r^2 R^2 - 64 r R^3\big)}{(r - R)^2 \big(l^2 + r^2 - 8 r R\big)^2}\}$$

$$\{X43,\ X(6)\text{-CEVA CONJUGATE OF } X(1),\ X47,\ X(110)\text{-BETH CONJUGATE OF } X(34),$$
$$-\big(\big(4 r^2 R\big(2 l^6 r - 2 l^4 r^3 - 10 l^2 r^5 - 6 r^7 - l^6 R - 47 l^4 r^2 R + 133 l^2 r^4 R - 77 r^6 R + 16 l^4 r R^2 + 208 l^2 r^3 R^2 - 320 r^5 R^2 + 8 l^4 R^3 + 16 l^2 r^2 R^3 - 440 r^4 R^3 - 160 l^2 r R^4 + 96 r^3 R^4 - 16 l^2 R^5 + 432 r^2 R^5 + 256 r R^6\big)\big) \big/ \big(\big(l^2 + r^2 - 8 r R\big)^2 \big(l^2 - 3 r^2 - 6 r R - 2 R^2\big)^2\big)\big)\}$$

$$\{X43,\ X(6)\text{-CEVA CONJUGATE OF } X(1),\ X48,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(63),$$
$$\big(4 R\big(3 l^8 r + 2 l^6 r^3 - 4 l^4 r^5 - 2 l^2 r^7 + r^9 - l^8 R - 63 l^6 r^2 R + 117 l^4 r^4 R - 61 l^2 r^6 R + 16 r^8 R + 8 l^6 r R^2 + 132 l^4 r^3 R^2 - 288 l^2 r^5 R^2 + 100 r^7 R^2 + 4 l^6 R^3 + 184 l^4 r^2 R^3 - 476 l^2 r^4 R^3 + 304 r^6 R^3 - 64 l^4 r R^4 - 256 l^2 r^3 R^4 + 448 r^5 R^4 + 256 r^4 R^5\big)\big) \big/ \big(\big(l^2 + r^2 - 8 r R\big)^2 \big(3 l^2 - r^2 - 6 r R - 8 R^2\big)^2\big)\}$$

$$\{X43,\ X(6)\text{-CEVA CONJUGATE OF } X(1),\ X49,$$
$$\text{CENTER OF SINE-TRIPLE-ANGLE CIRCLE},\ \frac{1}{\big(l^2 + r^2 - 8 r R\big)^2 \big(2 l^2 - 2 r^2 - 8 r R - 7 R^2\big)^2}$$
$$R\big(4 l^8 r - 8 l^6 r^3 - 16 l^4 r^5 + 8 l^2 r^7 + 12 r^9 - l^8 R - 92 l^6 r^2 R + 386 l^4 r^4 R - 364 l^2 r^6 R + 183 r^8 R - 10 l^6 r R^2 + 402 l^4 r^3 R^2 - 1598 l^2 r^5 R^2 + 1062 r^7 R^2 + 4 l^6 R^3 + 528 l^4 r^2 R^3 - 2220 l^2 r^4 R^3 + 2888 r^6 R^3 - 10 l^4 r R^4 - 1076 l^2 r^3 R^4 + 3542 r^5 R^4 + l^4 R^5 - 886 l^2 r^2 R^5 + 1225 r^4 R^5 - 16 l^2 r R^6 - 592 r^3 R^6 + 64 r^2 R^7\big)\}$$

$$\{X43,\ X(6)\text{-CEVA CONJUGATE OF } X(1),\ X50,\ X(74)\text{-CEVA CONJUGATE OF } X(184),$$
$$-\left(\left(4 r^2 R \left(3 l^{10} r - 13 l^8 r^3 - 26 l^6 r^5 - 2 l^4 r^7 + 7 l^2 r^9 - r^{11} - l^{10} R - 72 l^8 r^2 R + 426 l^6 r^4 R - 364 l^4 r^6 R + 143 l^2 r^8 R - 20 r^{10} R + 12 l^8 r R^2 + 414 l^6 r^3 R^2 - 1550 l^4 r^5 R^2 + 954 l^2 r^7 R^2 - 166 r^9 R^2 + 6 l^8 R^3 + 102 l^6 r^2 R^3 - 1958 l^4 r^4 R^3 + 2842 l^2 r^6 R^3 - 736 r^8 R^3 - 111 l^6 r R^4 - 455 l^4 r^3 R^4 + 3935 l^2 r^5 R^4 - 1865 r^7 R^4 - 9 l^6 R^5 + 186 l^4 r^2 R^5 + 2199 l^2 r^4 R^5 - 2668 r^6 R^5 + 144 l^4 r R^6 + 288 l^2 r^3 R^6 - 1968 r^5 R^6 - 576 r^4 R^7\right)\right) \Big/ \left(\left(l^2 + r^2 - 8 r R\right)^2 \left(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 3 l^2 R^2 + 19 r^2 R^2 + 12 r R^3\right)^2\right)\right)\}$$

$$\{X43,\ X(6)\text{-CEVA CONJUGATE OF } X(1),\ X51,\ \text{CENTROID OF ORTHIC TRIANGLE},\ -\frac{1}{36 R^2 \left(-l^2 - r^2 + 8 r R\right)^2} \left(l^8 + 20 l^6 r^2 + 38 l^4 r^4 + 20 l^2 r^6 + r^8 - 12 l^6 r R - 276 l^4 r^3 R - 260 l^2 r^5 R + 4 r^7 R - 4 l^6 R^2 - 204 l^4 r^2 R^2 + 756 l^2 r^4 R^2 - 68 r^6 R^2 + 32 l^4 r R^3 + 1664 l^2 r^3 R^3 - 416 r^5 R^3 + 448 l^2 r^2 R^4 - 320 r^4 R^4 + 1024 r^3 R^5\right)\}$$

$$\{X43,\ X(6)\text{-CEVA CONJUGATE OF } X(1),\ X52,\ \text{ORTHOCENTER OF ORTHIC TRIANGLE},$$
$$\frac{1}{4 R^2 \left(-l^2 - r^2 + 8 r R\right)^2} \left(l^8 - 12 l^6 r^2 - 26 l^4 r^4 - 12 l^2 r^6 + r^8 - 28 l^6 r R + 188 l^4 r^3 R + 204 l^2 r^5 R - 12 r^7 R - 4 l^6 R^2 + 332 l^4 r^2 R^2 - 732 l^2 r^4 R^2 - 44 r^6 R^2 + 88 l^4 r R^3 - 1552 l^2 r^3 R^3 + 408 r^5 R^3 + 4 l^4 R^4 - 664 l^2 r^2 R^4 + 1636 r^4 R^4 - 64 l^2 r R^5 + 1216 r^3 R^5 + 256 r^2 R^6\right)\}$$

$$\{X43,\ X(6)\text{-CEVA CONJUGATE OF } X(1),\ X53,\ \text{SYMMEDIAN POINT OF ORTHIC TRIANGLE},$$
$$-\left(\left(4 r^2 \left(2 l^{10} r^2 - 8 l^8 r^4 - 20 l^6 r^6 - 8 l^4 r^8 + 2 l^2 r^{10} + l^{10} r R - 21 l^8 r^3 R - 22 l^6 r^5 R + 22 l^4 r^7 R + 21 l^2 r^9 R - r^{11} R - l^{10} R^2 - 20 l^8 r^2 R^2 + 146 l^6 r^4 R^2 + 264 l^4 r^6 R^2 + 79 l^2 r^8 R^2 - 20 r^{10} R^2 + 16 l^8 r R^3 - 152 l^6 r^3 R^3 + 568 l^4 r^5 R^3 + 56 l^2 r^7 R^3 - 168 r^9 R^3 + 8 l^8 R^4 - 8 l^6 r^2 R^4 + 664 l^4 r^4 R^4 - 344 l^2 r^6 R^4 - 768 r^8 R^4 - 144 l^6 r R^5 + 720 l^4 r^3 R^5 - 688 l^2 r^5 R^5 - 2064 r^7 R^5 - 16 l^6 R^6 + 160 l^4 r^2 R^6 - 16 l^2 r^4 R^6 - 3264 r^6 R^6 + 256 l^4 r R^7 + 512 l^2 r^3 R^7 - 2816 r^5 R^7 - 1024 r^4 R^8\right)\right) \Big/ \left(\left(l^2 + r^2 - 8 r R\right)^2 \left(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 4 l^2 R^2 + 20 r^2 R^2 + 16 r R^3\right)^2\right)\right)\}$$

$$\{X43,\ X(6)\text{-CEVA CONJUGATE OF } X(1),\ X54,\ \text{KosnitaPoint},\ \frac{1}{\left(l^2 + r^2 - 8 r R\right)^2 \left(2 l^2 - 2 r^2 - 8 r R - 5 R^2\right)^2} R \left(4 l^8 r - 8 l^6 r^3 - 16 l^4 r^5 + 8 l^2 r^7 + 12 r^9 - 92 l^6 r^2 R + 380 l^4 r^4 R - 372 l^2 r^6 R + 180 r^8 R - 26 l^6 r R^2 + 458 l^4 r^3 R^2 - 1566 l^2 r^5 R^2 + 1022 r^7 R^2 - l^6 R^3 + 553 l^4 r^2 R^3 - 2315 l^2 r^4 R^3 + 2763 r^6 R^3 + 60 l^4 r R^4 - 1608 l^2 r^3 R^4 + 3708 r^5 R^4 + 4 l^4 R^5 - 920 l^2 r^2 R^5 + 2468 r^4 R^5 - 64 l^2 r R^6 + 832 r^3 R^6 + 256 r^2 R^7\right)\}$$

$$\{X43,\ X(6)\text{-CEVA CONJUGATE OF } X(1),\ X55,\ \text{INSIMILICENTER(CIRCUMCIRCLE, INCIRCLE)},$$
$$\frac{r^2 R \left(2 l^4 r + 4 l^2 r^3 + 2 r^5 + 5 l^4 R - 30 l^2 r^2 R + 29 r^4 R - 72 l^2 r R^2 + 120 r^3 R^2 + 16 l^2 R^3 + 80 r^2 R^3 - 256 r R^4\right)}{(r + R)^2 \left(l^2 + r^2 - 8 r R\right)^2}\}$$

$$\{X43,\ X(6)\text{-CEVA CONJUGATE OF } X(1),\ X56,\ \text{EXSIMILICENTER(CIRCUMCIRCLE, INCIRCLE)},$$
$$\frac{r^2 R \left(2 l^4 r + 4 l^2 r^3 + 2 r^5 - 3 l^4 R - 46 l^2 r^2 R + 21 r^4 R + 40 l^2 r R^2 - 24 r^3 R^2 + 16 l^2 R^3 + 208 r^2 R^3 - 256 r R^4\right)}{(r - R)^2 \left(l^2 + r^2 - 8 r R\right)^2}\}$$

$$\{X43,\ X(6)\text{-CEVA CONJUGATE OF } X(1),\ X57,$$
$$\text{ISOGONAL CONJUGATE OF } X(9),\ \frac{4 r^2 R^2 \left(l^2 + 5 r^2 - 16 r R\right) \left(-3 l^2 + r^2 + 8 r R + 16 R^2\right)}{(r - 2 R)^2 \left(l^2 + r^2 - 8 r R\right)^2}\}$$

$$\{X43,\ X(6)\text{-CEVA CONJUGATE OF } X(1),\ X58,\ \text{ISOGONAL CONJUGATE OF } X(10),$$
$$-\left(\left(4 r^2 R \left(2 l^6 r - 2 l^4 r^3 - 10 l^2 r^5 - 6 r^7 - l^6 R - 39 l^4 r^2 R + 149 l^2 r^4 R - 69 r^6 R + 16 l^4 r R^2 + 64 l^2 r^3 R^2 - 208 r^5 R^2 - 256 r^4 R^3\right)\right) \Big/ \left(\left(l^2 + r^2 - 8 r R\right)^2 \left(l^2 - 3 r^2 - 4 r R\right)^2\right)\right)\}$$

$$\left\{X43,\ X(6)\text{-CEVA CONJUGATE OF }X(1),\ X59,\ \text{ISOGONAL CONJUGATE OF }X(11),\ \frac{1}{(2r-R)\left(l^2+r^2-8rR\right)^2\left(-l^2+r^2+5rR+4R^2\right)^2}\right.$$
$$\left.r^2R\left(2l^8-4l^6r^2-8l^4r^4+4l^2r^6+6r^8-48l^6rR+192l^4r^3R-176l^2r^5R+96r^7R-29l^6R^2+261l^4r^2R^2-895l^2r^4R^2+607r^6R^2+592l^4rR^3-1728l^2r^3R^3+1904r^5R^3+144l^4R^4-1616l^2r^2R^4+3040r^4R^4-2560l^2rR^5+2560r^3R^5-256l^2R^6+2816r^2R^6+4096rR^7\right)\right\}$$

$$\left\{X43,\ X(6)\text{-CEVA CONJUGATE OF }X(1),\ X60,\ \text{ISOGONAL CONJUGATE OF }X(12),\ \frac{1}{\left(l^2+r^2-8rR\right)^2\left(2l^2r-2r^3+l^2R-7r^2R-7rR^2\right)^2}\right.$$
$$\left.r^2R\left(4l^8r-8l^6r^3-16l^4r^5+8l^2r^7+12r^9+2l^8R-92l^6r^2R+368l^4r^4R-388l^2r^6R+174r^8R-42l^6rR^2+586l^4r^3R^2-1518l^2r^5R^2+926r^7R^2+l^6R^3+247l^4r^2R^3-2037l^2r^4R^3+2325r^6R^3-24l^4rR^4-688l^2r^3R^4+2664r^5R^4+144l^2r^2R^5+976r^4R^5-256r^3R^6\right)\right\}$$

$$\left\{X43,\ X(6)\text{-CEVA CONJUGATE OF }X(1),\ X61,\ \text{ISOGONAL CONJUGATE OF }X(17),\ \frac{1}{\left(3l^2+2\sqrt{3}\,lr-3r^2-12rR\right)^2\left(l^2+r^2-8rR\right)^2}\right.$$
$$\left.12r^2R\left(\sqrt{3}\,l^7-l^6r-\sqrt{3}\,l^5r^2+l^4r^3-5\sqrt{3}\,l^3r^4+5l^2r^5-3\sqrt{3}\,lr^6+3r^7+4l^6R-16\sqrt{3}\,l^5rR+28l^4r^2R+80\sqrt{3}\,l^3r^3R-68l^2r^4R-32\sqrt{3}\,lr^5R+36r^6R-64l^4rR^2+16\sqrt{3}\,l^3r^2R^2-48l^2r^3R^2-112\sqrt{3}\,lr^4R^2+144r^5R^2+64l^2r^2R^3-128\sqrt{3}\,lr^3R^3+192r^4R^3\right)\right\}$$

$$\left\{X43,\ X(6)\text{-CEVA CONJUGATE OF }X(1),\ X62,\ \text{ISOGONAL CONJUGATE OF }X(18),\ \frac{1}{\left(3l^2-2\sqrt{3}\,lr-3r^2-12rR\right)^2\left(l^2+r^2-8rR\right)^2}\right.$$
$$\left.12r^2R\left(-\sqrt{3}\,l^7-l^6r+\sqrt{3}\,l^5r^2+l^4r^3+5\sqrt{3}\,l^3r^4+5l^2r^5+3\sqrt{3}\,lr^6+3r^7+4l^6R+16\sqrt{3}\,l^5rR+28l^4r^2R-80\sqrt{3}\,l^3r^3R-68l^2r^4R+32\sqrt{3}\,lr^5R+36r^6R-64l^4rR^2-16\sqrt{3}\,l^3r^2R^2-48l^2r^3R^2+112\sqrt{3}\,lr^4R^2+144r^5R^2+64l^2r^2R^3+128\sqrt{3}\,lr^3R^3+192r^4R^3\right)\right\}$$

$$\left\{X43,\ X(6)\text{-CEVA CONJUGATE OF }X(1),\ X63,\ \text{ISOGONAL CONJUGATE OF }X(19),\ \frac{1}{(r+R)^2\left(l^2+r^2-8rR\right)^2}R\left(2l^6r+6l^4r^3+6l^2r^5+2r^7+l^6R-33l^4r^2R-69l^2r^4R+29r^6R-24l^4rR^2+96l^2r^3R^2+120r^5R^2+144l^2r^2R^3+80r^4R^3-256r^3R^4\right)\right\}$$

$$\left\{X43,\ X(6)\text{-CEVA CONJUGATE OF }X(1),\ X64,\ \text{ISOGONAL CONJUGATE OF }X(20),\ \frac{1}{(l-r-2R)^2(l+r+2R)^2\left(l^2+r^2-8rR\right)^2}\right.$$
$$\left.4R\left(l^8r+l^6r^3-l^4r^5-l^2r^7+3l^8R-29l^6r^2R+14l^4r^4R-9l^2r^6R+9r^8R-80l^6rR^2+260l^4r^3R^2-168l^2r^5R^2+68r^7R^2-28l^6R^3+796l^4r^2R^3-1124l^2r^4R^3+420r^6R^3+576l^4rR^4-3264l^2r^3R^4+1920r^5R^4+64l^4R^5-3776l^2r^2R^5+5120r^4R^5-1024l^2rR^6+7168r^3R^6+4096r^2R^7\right)\right\}$$

$$\left\{X43,\ X(6)\text{-CEVA CONJUGATE OF }X(1),\ X65,\ \text{ORTHOCENTER OF THE INTOUCH TRIANGLE},\ -\frac{r^2\left(2l^4r+4l^2r^3+2r^5+3l^4R-26l^2r^2R-29r^4R-72l^2rR^2+56r^3R^2-16l^2R^3+304r^2R^3+256rR^4\right)}{R\left(-l^2-r^2+8rR\right)^2}\right\}$$

$$\left\{X43,\ X(6)\text{-CEVA CONJUGATE OF }X(1),\ X66,\ \text{ISOGONAL CONJUGATE OF }X(22),\right.$$
$$\frac{1}{(l-r-2R)^2\,(l+r+2R)^2\,\left(l^2+r^2-8\,r\,R\right)^2\,\left(l^2-r^2-4\,r\,R\right)^2}$$
$$\left(6\,l^{12}\,r^2-8\,l^{10}\,r^4-10\,l^8\,r^6+16\,l^6\,r^8+2\,l^4\,r^{10}-8\,l^2\,r^{12}+2\,r^{14}+2\,l^{12}\,r\,R-144\,l^{10}\,r^3\,R+\right.$$
$$154\,l^8\,r^5\,R+160\,l^6\,r^7\,R-186\,l^4\,r^9\,R-16\,l^2\,r^{11}\,R+30\,r^{13}\,R-l^{12}\,R^2-126\,l^{10}\,r^2\,R^2+$$
$$1461\,l^8\,r^4\,R^2-964\,l^6\,r^6\,R^2-1063\,l^4\,r^8\,R^2+578\,l^2\,r^{10}\,R^2+115\,r^{12}\,R^2+16\,l^{10}\,r\,R^3+1896\,l^8\,r^3\,R^3-$$
$$7488\,l^6\,r^5\,R^3+1168\,l^4\,r^7\,R^3+3888\,l^2\,r^9\,R^3-504\,r^{11}\,R^3+4\,l^{10}\,R^4+268\,l^8\,r^2\,R^4-12\,072\,l^6\,r^4\,R^4+$$
$$16\,712\,l^4\,r^6\,R^4+8612\,l^2\,r^8\,R^4-6100\,r^{10}\,R^4-80\,l^8\,r\,R^5-4704\,l^6\,r^3\,R^5+32\,960\,l^4\,r^5\,R^5+$$
$$2400\,l^2\,r^7\,R^5-23\,920\,r^9\,R^5+144\,l^6\,r^2\,R^6+20\,576\,l^4\,r^4\,R^6-15\,344\,l^2\,r^6\,R^6-50\,112\,r^8\,R^6+$$
$$\left.\left.2048\,l^4\,r^3\,R^7-16\,640\,l^2\,r^5\,R^7-61\,696\,r^7\,R^7-3072\,l^2\,r^4\,R^8-45\,056\,r^6\,R^8-16\,384\,r^5\,R^9\right)\right\}$$

$$\left\{X43,\ X(6)\text{-CEVA CONJUGATE OF }X(1),\ X67,\ \text{ISOGONAL CONJUGATE OF }X(23),\right.$$
$$\frac{1}{\left(l^2+r^2-8\,r\,R\right)^2\,\left(l^2-r^2-4\,r\,R\right)^2\,\left(2\,l^2-2\,r^2-8\,r\,R-9\,R^2\right)}$$
$$\left(l^{12}+14\,l^{10}\,r^2-5\,l^8\,r^4-28\,l^6\,r^6+7\,l^4\,r^8+14\,l^2\,r^{10}-3\,r^{12}-26\,l^{10}\,r\,R-266\,l^8\,r^3\,R+\right.$$
$$84\,l^6\,r^5\,R+308\,l^4\,r^7\,R-58\,l^2\,r^9\,R-42\,r^{11}\,R-4\,l^{10}\,R^2+96\,l^8\,r^2\,R^2+1824\,l^6\,r^4\,R^2-$$
$$104\,l^4\,r^6\,R^2-924\,l^2\,r^8\,R^2-120\,r^{10}\,R^2+88\,l^8\,r\,R^3+1180\,l^6\,r^3\,R^3-4724\,l^4\,r^5\,R^3-$$
$$2780\,l^2\,r^7\,R^3+988\,r^9\,R^3-292\,l^6\,r^2\,R^4-7768\,l^4\,r^4\,R^4-2020\,l^2\,r^6\,R^4+8272\,r^8\,R^4-$$
$$\left.\left.1856\,l^4\,r^3\,R^5+3840\,l^2\,r^5\,R^5+24\,384\,r^7\,R^5+5120\,l^2\,r^4\,R^6+32\,512\,r^6\,R^6+16\,384\,r^5\,R^7\right)\right\}$$

$$\left\{X43,\ X(6)\text{-CEVA CONJUGATE OF }X(1),\ X68,\ \text{PRASOLOV POINT},\ \frac{1}{(l-r-2R)^2\,(l+r+2R)^2\,\left(l^2+r^2-8\,r\,R\right)^2}\right.$$
$$\left(6\,l^8\,r^2+4\,l^6\,r^4-8\,l^4\,r^6-4\,l^2\,r^8+2\,r^{10}+2\,l^8\,r\,R-92\,l^6\,r^3\,R-48\,l^4\,r^5\,R+60\,l^2\,r^7\,R+\right.$$
$$14\,r^9\,R+l^8\,R^2-104\,l^6\,r^2\,R^2+402\,l^4\,r^4\,R^2+224\,l^2\,r^6\,R^2-27\,r^8\,R^2-36\,l^6\,r\,R^3+892\,l^4\,r^3\,R^3-$$
$$92\,l^2\,r^5\,R^3-508\,r^7\,R^3-4\,l^6\,R^4+572\,l^4\,r^2\,R^4-1692\,l^2\,r^4\,R^4-1756\,r^6\,R^4+96\,l^4\,r\,R^5-$$
$$\left.\left.2048\,l^2\,r^3\,R^5-2400\,r^5\,R^5+4\,l^4\,R^6-824\,l^2\,r^2\,R^6-828\,r^4\,R^6-64\,l^2\,r\,R^7+448\,r^3\,R^7+256\,r^2\,R^8\right)\right\}$$

$$\left\{X43,\ X(6)\text{-CEVA CONJUGATE OF }X(1),\ X69,\ \text{SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},\right.$$
$$\left(l^{10}+9\,l^8\,r^2+6\,l^6\,r^4-10\,l^4\,r^6-7\,l^2\,r^8+r^{10}-24\,l^8\,r\,R-136\,l^6\,r^3\,R-56\,l^4\,r^5\,R+72\,l^2\,r^7\,R+\right.$$
$$16\,r^9\,R+112\,l^6\,r^2\,R^2+512\,l^4\,r^4\,R^2+176\,l^2\,r^6\,R^2+32\,r^8\,R^2+384\,l^4\,r^3\,R^3+384\,l^2\,r^5\,R^3-$$
$$\left.\left.512\,r^7\,R^3-1792\,l^2\,r^4\,R^4-2816\,r^6\,R^4-4096\,r^5\,R^5\right)\Big/\left(\left(l^2+r^2-8\,r\,R\right)^2\,\left(l^2-r^2-4\,r\,R\right)^2\right)\right\}$$

$$\left\{X43,\ X(6)\text{-CEVA CONJUGATE OF }X(1),\ X70,\ \text{ISOGONAL CONJUGATE OF }X(26),\right.$$
$$\left(6\,l^{12}\,r^2-8\,l^{10}\,r^4-10\,l^8\,r^6+16\,l^6\,r^8+2\,l^4\,r^{10}-8\,l^2\,r^{12}+2\,r^{14}+2\,l^{12}\,r\,R-144\,l^{10}\,r^3\,R+154\,l^8\,r^5\,R+\right.$$
$$160\,l^6\,r^7\,R-186\,l^4\,r^9\,R-16\,l^2\,r^{11}\,R+30\,r^{13}\,R-148\,l^{10}\,r^2\,R^2+1468\,l^8\,r^4\,R^2-920\,l^6\,r^6\,R^2-1080\,l^4\,r^8\,R^2+$$
$$556\,l^2\,r^{10}\,R^2+124\,r^{12}\,R^2-22\,l^{10}\,r\,R^3+2338\,l^8\,r^3\,R^3-7572\,l^6\,r^5\,R^3+636\,l^4\,r^7\,R^3+4010\,l^2\,r^9\,R^3-$$
$$414\,r^{11}\,R^3-l^{10}\,R^4+1049\,l^8\,r^2\,R^4-15\,482\,l^6\,r^4\,R^4+16\,530\,l^4\,r^6\,R^4+10\,619\,l^2\,r^8\,R^4-6059\,r^{10}\,R^4+$$
$$110\,l^8\,r\,R^5-11\,756\,l^6\,r^3\,R^5+43\,816\,l^4\,r^5\,R^5+7500\,l^2\,r^7\,R^5-26\,678\,r^9\,R^5+6\,l^8\,R^6-3236\,l^6\,r^2\,R^6+$$
$$48\,304\,l^4\,r^4\,R^6-20\,252\,l^2\,r^6\,R^6-64\,118\,r^8\,R^6-262\,l^6\,r\,R^7+23\,222\,l^4\,r^3\,R^7-49\,730\,l^2\,r^5\,R^7-$$
$$91\,646\,r^7\,R^7-9\,l^6\,R^8+4449\,l^4\,r^2\,R^8-42\,947\,l^2\,r^4\,R^8-76\,077\,r^6\,R^8+236\,l^4\,r\,R^9-15\,784\,l^2\,r^3\,R^9-$$
$$\left.31\,636\,r^5\,R^9+4\,l^4\,R^{10}-2264\,l^2\,r^2\,R^{10}-2972\,r^4\,R^{10}-64\,l^2\,r\,R^{11}+1344\,r^3\,R^{11}+256\,r^2\,R^{12}\right)\Big/$$
$$\left.\left.\left(\left(l^2+r^2-8\,r\,R\right)^2\,\left(l^4-2\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-6\,l^2\,R^2+22\,r^2\,R^2+24\,r\,R^3+7\,R^4\right)^2\right)\right\}$$

$$\left\{X43,\ X(6)\text{-CEVA CONJUGATE OF }X(1),\ X71,\ \text{ISOGONAL CONJUGATE OF }X(27),\right.$$
$$\left(4\,R\,\left(l^8\,r+4\,l^6\,r^3+6\,l^4\,r^5+4\,l^2\,r^7+r^9+3\,l^8\,R-11\,l^6\,r^2\,R-15\,l^4\,r^4\,R+15\,l^2\,r^6\,R+16\,r^8\,R-\right.\right.$$
$$40\,l^6\,r\,R^2-76\,l^4\,r^3\,R^2+64\,l^2\,r^5\,R^2+100\,r^7\,R^2+4\,l^6\,R^3-8\,l^4\,r^2\,R^3+228\,l^2\,r^4\,R^3+304\,r^6\,R^3-$$
$$\left.\left.64\,l^4\,r\,R^4+256\,l^2\,r^3\,R^4+448\,r^5\,R^4+256\,r^4\,R^5\right)\right)\Big/\left(\left(l^2+r^2-8\,r\,R\right)^2\,\left(l^2+r^2+6\,r\,R+8\,R^2\right)^2\right)\right\}$$

$$\left\{X43,\ X(6)\text{-CEVA CONJUGATE OF }X(1),\ X72,\ \text{ISOGONAL CONJUGATE OF }X(28),\right.$$
$$-\frac{1}{R\,\left(-l^2-r^2+8\,r\,R\right)^2}\left(-l^6\,r-l^4\,r^3+l^2\,r^5+r^7-l^6\,R+18\,l^4\,r^2\,R+\right.$$
$$\left.\left.7\,l^2\,r^4\,R-12\,r^6\,R+24\,l^4\,r\,R^2-104\,l^2\,r^3\,R^2-144\,l^2\,r^2\,R^3+176\,r^4\,R^3+256\,r^3\,R^4\right)\right\}$$

$$\{X43,\ X(6)\text{-CEVA CONJUGATE OF }X(1),\ X73,\ \text{CROSSPOINT OF INCENTER AND CIRCUMCENTER},$$
$$\left(4 r^2 R^2 \left(3 l^6+13 l^4 r^2+17 l^2 r^4+7 r^6-52 l^4 r R-72 l^2 r^3 R-20 r^5 R-28 l^4 R^2-56 l^2 r^2 R^2+36 r^4 R^2+480 l^2 r R^3+352 r^3 R^3+64 l^2 R^4-192 r^2 R^4-1024 r R^5\right)\right)\Big/\left(\left(l^2+r^2-8 r R\right)^2\left(l^2+r^2-2 r R-4 R^2\right)^2\right)\}$$

$$\{X43,\ X(6)\text{-CEVA CONJUGATE OF }X(1),\ X74,\ \text{ISOGONAL CONJUGATE OF EULER INFINITY POINT},$$
$$\left(R\left(6 l^6 r+10 l^4 r^3+2 l^2 r^5-2 r^7+9 l^6 R-145 l^4 r^2 R+35 l^2 r^4 R-67 r^6 R-204 l^4 r R^2+744 l^2 r^3 R^2-332 r^5 R^2-36 l^4 R^3+1560 l^2 r^2 R^3-1284 r^4 R^3+576 l^2 r R^4-2880 r^3 R^4-2304 r^2 R^5\right)\right)\Big/\left(\left(l^2+r^2-8 r R\right)^2\left(2 l^2-2 r^2-8 r R-9 R^2\right)\right)\}$$

$$\{X43,\ X(6)\text{-CEVA CONJUGATE OF }X(1),\ X75,\ \text{ISOTOMIC CONJUGATE OF INCENTER},$$
$$\left(l^{10}+5 l^8 r^2+10 l^6 r^4+10 l^4 r^6+5 l^2 r^8+r^{10}-24 l^8 r R-24 l^6 r^3 R+40 l^4 r^5 R+56 l^2 r^7 R+16 r^9 R+176 l^6 r^2 R^2-128 l^4 r^4 R^2-272 l^2 r^6 R^2+32 r^8 R^2-896 l^4 r^3 R^3+640 l^2 r^5 R^3-512 r^7 R^3+2304 l^2 r^4 R^4-2816 r^6 R^4-4096 r^5 R^5\right)\Big/\left(\left(l^2+r^2-8 r R\right)^2\left(l^2+r^2+4 r R\right)^2\right)\}$$

$$\{X43,\ X(6)\text{-CEVA CONJUGATE OF }X(1),\ X76,\ \text{3rd BROCARD POINT},$$
$$\frac{1}{\left(l^2+r^2-8 r R\right)^2\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)^2}$$
$$\left(l^{14}+7 l^{12} r^2+21 l^{10} r^4+35 l^8 r^6+35 l^6 r^8+21 l^4 r^{10}+7 l^2 r^{12}+r^{14}-32 l^{12} r R-136 l^{10} r^3 R-200 l^8 r^5 R-80 l^6 r^7 R+80 l^4 r^9 R+88 l^2 r^{11} R+24 r^{13} R+320 l^{10} r^2 R^2+816 l^8 r^4 R^2+448 l^6 r^6 R^2-96 l^4 r^8 R^2+128 l^2 r^{10} R^2+176 r^{12} R^2-896 l^8 r^3 R^3-2432 l^6 r^5 R^3-2176 l^4 r^7 R^3-640 l^2 r^9 R^3-3072 l^6 r^4 R^4+5888 l^4 r^6 R^4+2560 l^2 r^8 R^4-6400 r^{10} R^4+16384 l^4 r^5 R^5+14336 l^2 r^7 R^5-34816 r^9 R^5+4096 l^2 r^6 R^6-77824 r^8 R^6-65536 r^7 R^7\right)\}$$

$$\{X43,\ X(6)\text{-CEVA CONJUGATE OF }X(1),\ X77,\ \text{ISOGONAL CONJUGATE OF }X(33),$$
$$\left(r^2 R^2\left(21 l^6+59 l^4 r^2-25 l^2 r^4+r^6-400 l^4 r R+16 r^5 R-144 l^4 R^2+592 l^2 r^2 R^2+32 r^4 R^2+2560 l^2 r R^3-512 r^3 R^3+256 l^2 R^4-2816 r^2 R^4-4096 r R^5\right)\right)\Big/\left(\left(l^2+r^2-8 r R\right)^2\left(l^2-r R-4 R^2\right)^2\right)\}$$

$$\{X43,\ X(6)\text{-CEVA CONJUGATE OF }X(1),\ X78,$$
$$\text{ISOGONAL CONJUGATE OF }X(34),\ \frac{R^2\left(l^2+5 r^2-16 r R\right)\left(-l^2+3 r^2+4 r R\right)^2}{(r-R)^2\left(l^2+r^2-8 r R\right)^2}\}$$

$$\{X43,\ X(6)\text{-CEVA CONJUGATE OF }X(1),\ X79,\ \text{ISOGONAL CONJUGATE OF }X(35),$$
$$\left(4 r^2\left(-2 l^6-2 l^4 r^2+2 l^2 r^4+2 r^6+36 l^4 r R+40 l^2 r^3 R+4 r^5 R+3 l^4 R^2-114 l^2 r^2 R^2-53 r^4 R^2+12 l^2 r R^3-244 r^3 R^3+36 l^2 R^4-492 r^2 R^4-576 r R^5\right)\right)\Big/\left((2 r+3 R)^2\left(l^2+r^2-8 r R\right)^2\right)\}$$

$$\{X43,\ X(6)\text{-CEVA CONJUGATE OF }X(1),\ X80,\ \text{REFLECTION OF INCENTER IN FEUERBACH POINT},$$
$$\frac{4 r^2\left(2 l^4 r+4 l^2 r^3+2 r^5+l^4 R-14 l^2 r^2 R-15 r^4 R-28 l^2 r R^2+4 r^3 R^2-4 l^2 R^3+76 r^2 R^3+64 r R^4\right)}{(2 r-R)\left(l^2+r^2-8 r R\right)^2}\}$$

$$\{X43,\ X(6)\text{-CEVA CONJUGATE OF }X(1),\ X81,\ \text{CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},$$
$$-\left(\left(r^2 R\left(6 l^6 r+10 l^4 r^3+2 l^2 r^5-2 r^7-9 l^6 R-143 l^4 r^2 R+93 l^2 r^4 R-29 r^6 R+120 l^4 r R^2-120 r^5 R^2+368 l^2 r^2 R^3-80 r^4 R^3+256 r^3 R^4\right)\right)\Big/\left(\left(l^2+r^2-8 r R\right)^2\left(l^2-r^2-r R\right)^2\right)\right)\}$$

$$\{X43,\ X(6)\text{-CEVA CONJUGATE OF }X(1),\ X82,\ \text{ISOGONAL CONJUGATE OF }X(38),$$
$$-\left(\left(r^2 R\left(12 l^{10} r-12 l^8 r^3-8 l^6 r^5+40 l^4 r^7-4 l^2 r^9-28 r^{11}-9 l^{10} R-357 l^8 r^2 R+918 l^6 r^4 R-1274 l^4 r^6 R+995 l^2 r^8 R-561 r^{10} R+264 l^8 r R^2+3016 l^6 r^3 R^2-8344 l^4 r^5 R^2+9112 l^2 r^7 R^2-4368 r^9 R^2-2608 l^6 r^2 R^3-10752 l^4 r^4 R^3+26128 l^2 r^6 R^3-15904 r^8 R^3+12928 l^4 r^3 R^4+13440 l^2 r^5 R^4-23040 r^7 R^4-33024 l^2 r^4 R^5+6912 r^6 R^5+36864 r^5 R^6\right)\right)\Big/\left(\left(l^2+r^2-8 r R\right)^2\left(l^4-4 l^2 r^2+3 r^4-9 l^2 r R+19 r^3 R+28 r^2 R^2\right)^2\right)\right)\}$$

$$\{X43,\ X(6)\text{-CEVA CONJUGATE OF }X(1),\ X83,\ \text{CEVAPOINT OF CENTROID AND SYMMEDIAN POINT},$$
$$\left(l^{14}-l^{12}r^2-11\,l^{10}r^4-5\,l^8r^6+35\,l^6r^8+61\,l^4r^{10}+39\,l^2r^{12}+9\,r^{14}-16\,l^{12}r\,R+104\,l^{10}r^3R+408\,l^8r^5R+144\,l^6r^7R-224\,l^4r^9R+136\,l^2r^{11}R+216\,r^{13}R-64\,l^{10}r^2R^2-208\,l^8r^4R^2-6080\,l^6r^6R^2+4640\,l^4r^8R^2-3712\,l^2r^{10}R^2+2096\,r^{12}R^2+1152\,l^8r^3R^3-7040\,l^6r^5R^3+33\,664\,l^4r^7R^3-29\,824\,l^2r^9R^3+10\,240\,r^{11}R^3-1024\,l^6r^4R^4+34\,560\,l^4r^6R^4-71\,168\,l^2r^8R^4+24\,320\,r^{10}R^4-20\,480\,l^4r^5R^5-22\,528\,l^2r^7R^5+14\,336\,r^9R^5+69\,632\,l^2r^6R^6-45\,056\,r^8R^6-65\,536\,r^7R^7\right)\Big/\left(\left(l^2+r^2-8\,r\,R\right)^2\left(5\,l^4-6\,l^2r^2+5\,r^4-40\,l^2r\,R+40\,r^3R+80\,r^2R^2\right)^2\right)\}$$

$$\{X43,\ X(6)\text{-CEVA CONJUGATE OF }X(1),\ X84,\ \text{ISOGONAL CONJUGATE OF }X(40),$$
$$\frac{1}{r^2\left(l^2+r^2-8\,r\,R\right)^2}4\,R\left(l^6r+3\,l^4r^3+3\,l^2r^5+r^7-l^6R-20\,l^4r^2R-29\,l^2r^4R+6\,r^6R+16\,l^4r\,R^2+104\,l^2r^3R^2-8\,r^5R^2+4\,l^4R^3-56\,l^2r^2R^3-60\,r^4R^3-64\,l^2r\,R^4-64\,r^3R^4+256\,r^2R^5\right)\}$$

$$\{X43,\ X(6)\text{-CEVA CONJUGATE OF }X(1),\ X85,$$
$$\text{ISOTOMIC CONJUGATE OF }X(9),\ \frac{1}{\left(l^2+r^2-8\,r\,R\right)^2\left(l^2+r^2+8\,r\,R+16\,R^2\right)^2}$$
$$\left(l^{10}+5\,l^8r^2+10\,l^6r^4+10\,l^4r^6+5\,l^2r^8+r^{10}-32\,l^8r\,R-40\,l^6r^3R+40\,l^4r^5R+72\,l^2r^7R+24\,r^9R+352\,l^6r^2R^2+368\,l^4r^4R^2+192\,l^2r^6R^2+176\,r^8R^2+128\,l^6r\,R^3-1536\,l^4r^3R^3+384\,l^2r^5R^3-2816\,l^4r^2R^4+6144\,l^2r^4R^4-6400\,r^6R^4+18\,432\,l^2r^3R^5-34\,816\,r^5R^5+4096\,l^2r^2R^6-77\,824\,r^4R^6-65\,536\,r^3R^7\right)\}$$

$$\{X43,\ X(6)\text{-CEVA CONJUGATE OF }X(1),\ X86,\ \text{CEVAPOINT OF INCENTER AND CENTROID},$$
$$\left(l^{10}+5\,l^8r^2+10\,l^6r^4+10\,l^4r^6+5\,l^2r^8+r^{10}+8\,l^8r\,R+136\,l^6r^3R+264\,l^4r^5R+152\,l^2r^7R+16\,r^9R-208\,l^6r^2R^2+768\,l^4r^4R^2-16\,l^2r^6R^2+32\,r^8R^2-2432\,l^4r^3R^3-1920\,l^2r^5R^3-512\,r^7R^3-5888\,l^2r^4R^4-2816\,r^6R^4-4096\,r^5R^5\right)\Big/\left(\left(l^2+r^2-8\,r\,R\right)^2\left(5\,l^2+r^2+4\,r\,R\right)^2\right)\}$$

$$\{X43,\ X(6)\text{-CEVA CONJUGATE OF }X(1),\ X87,\ X(2)\text{-CROSS CONJUGATE OF }X(1),$$
$$-\left(\left(1024\,r^4R^3\left(l^6r+l^4r^3-l^2r^5-r^7-l^6R-22\,l^4r^2R+31\,l^2r^4R-12\,r^6R+16\,l^4r\,R^2+32\,l^2r^3R^2-48\,r^5R^2-64\,r^4R^3\right)\right)\Big/\left(\left(l^2+r^2-8\,r\,R\right)^2\left(l^4+2\,l^2r^2+r^4-20\,l^2r\,R+12\,r^3R+32\,r^2R^2\right)^2\right)\right)\}$$

$$\{X43,\ X(6)\text{-CEVA CONJUGATE OF }X(1),\ X88,\ \text{ISOGONAL CONJUGATE OF }X(44),$$
$$\left(r^2R\left(6\,l^6r-6\,l^4r^3-30\,l^2r^5-18\,r^7+l^6R-289\,l^4r^2R-357\,l^2r^4R+189\,r^6R-88\,l^4r\,R^2+3552\,l^2r^3R^2+1080\,r^5R^2+2448\,l^2r^2R^3-5040\,r^4R^3-20\,736\,r^3R^4\right)\right)\Big/\left(\left(l^2+3\,r^2-15\,r\,R\right)^2\left(l^2+r^2-8\,r\,R\right)^2\right)\}$$

$$\{X43,\ X(6)\text{-CEVA CONJUGATE OF }X(1),\ X89,\ \text{ISOGONAL CONJUGATE OF }X(45),$$
$$-\left(\left(r^2R\left(60\,l^6r+84\,l^4r^3-12\,l^2r^5-36\,r^7-25\,l^6R-887\,l^4r^2R+2397\,l^2r^4R-837\,r^6R+40\,l^4r\,R^2-4656\,l^2r^3R^2-3672\,r^5R^2+4464\,l^2r^2R^3+1584\,r^4R^3+20\,736\,r^3R^4\right)\right)\Big/\left(\left(l^2+r^2-8\,r\,R\right)^2\left(2\,l^2-6\,r^2+3\,r\,R\right)^2\right)\right)\}$$

$$\{X43,\ X(6)\text{-CEVA CONJUGATE OF }X(1),\ X90,\ X(3)\text{-CROSS CONJUGATE OF }X(1),$$
$$\left(4\,r^2R\left(l^6r+3\,l^4r^3+3\,l^2r^5+r^7-15\,l^4r^2R-22\,l^2r^4R+9\,r^6R-4\,l^4r\,R^2+44\,l^2r^3R^2+16\,r^5R^2-l^4R^3+26\,l^2r^2R^3-37\,r^4R^3+20\,l^2r\,R^4-76\,r^3R^4+4\,l^2R^5+52\,r^2R^5-64\,r\,R^6\right)\right)\Big/\left(\left(l^2+r^2-8\,r\,R\right)^2\left(r^2+2\,r\,R-R^2\right)^2\right)\}$$

$$\{X43,\ X(6)\text{-CEVA CONJUGATE OF }X(1),\ X91,$$
$$\text{ISOGONAL CONJUGATE OF }X(47),\ \frac{1}{\left(l^2+r^2-8\,r\,R\right)^2\left(l^2r+r^3-l^2R+3\,r^2R+2\,r\,R^2+2\,R^3\right)^2}$$
$$r^2\left(l^{10}+5\,l^8r^2+10\,l^6r^4+10\,l^4r^6+5\,l^2r^8+r^{10}-28\,l^8r\,R-40\,l^6r^3R+16\,l^4r^5R+40\,l^2r^7R+12\,r^9R-12\,l^8R^2+208\,l^6r^2R^2-24\,l^4r^4R^2-208\,l^2r^6R^2+36\,r^8R^2+312\,l^6r\,R^3-1064\,l^4r^3R^3+392\,l^2r^5R^3-280\,r^7R^3+52\,l^6R^4-2196\,l^4r^2R^4+4220\,l^2r^4R^4-2748\,r^6R^4-1216\,l^4r\,R^5+8320\,l^2r^3R^5-9408\,r^5R^5-96\,l^4R^6+6592\,l^2r^2R^6-15\,584\,r^4R^6+1920\,l^2r\,R^7-13\,440\,r^3R^7+64\,l^2R^8-5824\,r^2R^8-1024\,r\,R^9\right)\}$$

$$\Big\{X43,\ X(6)\text{-CEVA CONJUGATE OF }X(1),\ X92,\ \text{CEVAPOINT OF INCENTER AND CLAWSON POINT},\ \frac{1}{\left(l^2+r^2-8\,r\,R\right)^2\left(l^2+r^2-4\,R^2\right)^2}$$
$$\left(l^{10}+5\,l^8\,r^2+10\,l^6\,r^4+10\,l^4\,r^6+5\,l^2\,r^8+r^{10}-32\,l^8\,r\,R-56\,l^6\,r^3\,R-8\,l^4\,r^5\,R+24\,l^2\,r^7\,R+8\,r^9\,R-8\,l^8\,R^2+304\,l^6\,r^2\,R^2+112\,l^4\,r^4\,R^2-208\,l^2\,r^6\,R^2-8\,r^8\,R^2+224\,l^6\,r\,R^3-1408\,l^4\,r^3\,R^3+96\,l^2\,r^5\,R^3-320\,r^7\,R^3+16\,l^6\,R^4-1808\,l^4\,r^2\,R^4+3632\,l^2\,r^4\,R^4-1712\,r^6\,R^4-384\,l^4\,r\,R^5+6144\,l^2\,r^3\,R^5-4736\,r^5\,R^5+2304\,l^2\,r^2\,R^6-6912\,r^4\,R^6-4096\,r^3\,R^7\right)\Big\}$$

$$\Big\{X43,\ X(6)\text{-CEVA CONJUGATE OF }X(1),\ X93,\ \text{ISOGONAL CONJUGATE OF }X(49),$$
$$\left(l^{14}+7\,l^{12}\,r^2+21\,l^{10}\,r^4+35\,l^8\,r^6+35\,l^6\,r^8+21\,l^4\,r^{10}+7\,l^2\,r^{12}+r^{14}-32\,l^{12}\,r\,R-136\,l^{10}\,r^3\,R-200\,l^8\,r^5\,R-80\,l^6\,r^7\,R+80\,l^4\,r^9\,R+88\,l^2\,r^{11}\,R+24\,r^{13}\,R-10\,l^{12}\,R^2+240\,l^{10}\,r^2\,R^2+614\,l^8\,r^4\,R^2+240\,l^6\,r^6\,R^2-158\,l^4\,r^8\,R^2+160\,l^2\,r^{10}\,R^2+194\,r^{12}\,R^2+268\,l^{10}\,r\,R^3+404\,l^8\,r^3\,R^3-616\,l^6\,r^5\,R^3-1080\,l^4\,r^7\,R^3-36\,l^2\,r^9\,R^3+292\,r^{11}\,R^3+32\,l^{10}\,R^4-1436\,l^8\,r^2\,R^4-8784\,l^6\,r^4\,R^4+2168\,l^4\,r^6\,R^4+4304\,l^2\,r^8\,R^4-5180\,r^{10}\,R^4-668\,l^8\,r\,R^5-5496\,l^6\,r^3\,R^5+23\,680\,l^4\,r^5\,R^5+21\,752\,l^2\,r^7\,R^5-39\,524\,r^9\,R^5-34\,l^8\,R^6+772\,l^6\,r^2\,R^6+47\,336\,l^4\,r^4\,R^6+29\,500\,l^2\,r^6\,R^6-135\,814\,r^8\,R^6+428\,l^6\,r\,R^7+25\,020\,l^4\,r^3\,R^7-10\,124\,l^2\,r^5\,R^7-264\,092\,r^7\,R^7+7\,l^6\,R^8+4041\,l^4\,r^2\,R^8-45\,731\,l^2\,r^4\,R^8-296\,549\,r^6\,R^8+68\,l^4\,r\,R^9-21\,848\,l^2\,r^3\,R^9-178\,844\,r^5\,R^9+4\,l^4\,R^{10}-3256\,l^2\,r^2\,R^{10}-47\,228\,r^4\,R^{10}-64\,l^2\,r\,R^{11}-3520\,r^3\,R^{11}+256\,r^2\,R^{12}\right)\Big/$$
$$\left(\left(l^2+r^2-8\,r\,R\right)^2\left(l^4+2\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-8\,l^2\,R^2+24\,r^2\,R^2+32\,r\,R^3+13\,R^4\right)^2\right)\Big\}$$

$$\Big\{X43,\ X(6)\text{-CEVA CONJUGATE OF }X(1),\ X94,\ \text{ISOGONAL CONJUGATE OF }X(50),$$
$$\left(l^{14}+7\,l^{12}\,r^2+21\,l^{10}\,r^4+35\,l^8\,r^6+35\,l^6\,r^8+21\,l^4\,r^{10}+7\,l^2\,r^{12}+r^{14}-32\,l^{12}\,r\,R-136\,l^{10}\,r^3\,R-200\,l^8\,r^5\,R-80\,l^6\,r^7\,R+80\,l^4\,r^9\,R+88\,l^2\,r^{11}\,R+24\,r^{13}\,R-12\,l^{12}\,R^2+236\,l^{10}\,r^2\,R^2+624\,l^8\,r^4\,R^2+280\,l^6\,r^6\,R^2-108\,l^4\,r^8\,R^2+188\,l^2\,r^{10}\,R^2+200\,r^{12}\,R^2+312\,l^{10}\,r\,R^3+352\,l^8\,r^3\,R^3-944\,l^6\,r^5\,R^3-1312\,l^4\,r^7\,R^3+56\,l^2\,r^9\,R^3+384\,r^{11}\,R^3+54\,l^{10}\,R^4-1542\,l^8\,r^2\,R^4-7860\,l^6\,r^4\,R^4+2852\,l^4\,r^6\,R^4+4414\,l^2\,r^8\,R^4-4702\,r^{10}\,R^4-1080\,l^8\,r\,R^5-5976\,l^6\,r^3\,R^5+23\,368\,l^4\,r^5\,R^5+21\,944\,l^2\,r^7\,R^5-39\,088\,r^9\,R^5-108\,l^8\,R^6+1116\,l^6\,r^2\,R^6+44\,844\,l^4\,r^4\,R^6+33\,172\,l^2\,r^6\,R^6-141\,520\,r^8\,R^6+1512\,l^6\,r\,R^7+31\,824\,l^4\,r^3\,R^7+5352\,l^2\,r^5\,R^7-293\,248\,r^7\,R^7+81\,l^6\,R^8+6615\,l^4\,r^2\,R^8-34\,533\,l^2\,r^4\,R^8-366\,699\,r^6\,R^8-648\,l^4\,r\,R^9-33\,264\,l^2\,r^3\,R^9-274\,536\,r^5\,R^9-9072\,l^2\,r^2\,R^{10}-114\,480\,r^4\,R^{10}-20\,736\,r^3\,R^{11}\right)\Big/$$
$$\left(\left(l^2+r^2-8\,r\,R\right)^2\left(l^4+2\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-12\,l^2\,R^2+28\,r^2\,R^2+48\,r\,R^3+27\,R^4\right)^2\right)\Big\}$$

$$\Big\{X43,\ X(6)\text{-CEVA CONJUGATE OF }X(1),\ X95,\ \text{CEVAPOINT OF CENTROID AND CIRCUMCENTER},$$
$$\left(l^{14}+23\,l^{12}\,r^2+101\,l^{10}\,r^4+195\,l^8\,r^6+195\,l^6\,r^8+101\,l^4\,r^{10}+23\,l^2\,r^{12}+r^{14}-32\,l^{12}\,r\,R-488\,l^{10}\,r^3\,R-456\,l^8\,r^5\,R+752\,l^6\,r^7\,R+1104\,l^4\,r^9\,R+376\,l^2\,r^{11}\,R+24\,r^{13}\,R-8\,l^{12}\,R^2+192\,l^{10}\,r^2\,R^2+2184\,l^8\,r^4\,R^2-9600\,l^6\,r^6\,R^2+5960\,l^4\,r^8\,R^2+1344\,l^2\,r^{10}\,R^2+184\,r^{12}\,R^2+224\,l^{10}\,r\,R^3+1376\,l^8\,r^3\,R^3-1152\,l^6\,r^5\,R^3+11\,008\,l^4\,r^7\,R^3-2912\,l^2\,r^9\,R^3+160\,r^{11}\,R^3+16\,l^{10}\,R^4-1520\,l^8\,r^2\,R^4-10\,528\,l^6\,r^4\,R^4+19\,936\,l^4\,r^6\,R^4-25\,840\,l^2\,r^8\,R^4-5616\,r^{10}\,R^4-384\,l^8\,r\,R^5-1664\,l^6\,r^3\,R^5+12\,416\,l^4\,r^5\,R^5-48\,512\,l^2\,r^7\,R^5-37\,632\,r^9\,R^5+1792\,l^6\,r^2\,R^6+34\,816\,l^4\,r^4\,R^6-29\,952\,l^2\,r^6\,R^6-116\,224\,r^8\,R^6+6144\,l^4\,r^3\,R^7-18\,432\,l^2\,r^5\,R^7-196\,608\,r^7\,R^7-28\,672\,l^2\,r^4\,R^8-176\,128\,r^6\,R^8-65\,536\,r^5\,R^9\right)\Big/$$
$$\left(\left(l^2+r^2-8\,r\,R\right)^2\left(l^4+18\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-4\,l^2\,R^2+20\,r^2\,R^2+16\,r\,R^3\right)^2\right)\Big\}$$

$$\Big\{X43,\ X(6)\text{-CEVA CONJUGATE OF }X(1),\ X96,\ \text{ISOGONAL CONJUGATE OF }X(52),$$
$$-\left(\left(l^{14}-9\,l^{12}\,r^2-59\,l^{10}\,r^4-125\,l^8\,r^6-125\,l^6\,r^8-59\,l^4\,r^{10}-9\,l^2\,r^{12}+r^{14}-36\,l^{12}\,r\,R+320\,l^{10}\,r^3\,R+508\,l^8\,r^5\,R-224\,l^6\,r^7\,R-492\,l^4\,r^9\,R-96\,l^2\,r^{11}\,R+20\,r^{13}\,R-12\,l^{12}\,R^2+624\,l^{10}\,r^2\,R^2-3852\,l^8\,r^4\,R^2+5888\,l^6\,r^6\,R^2-4772\,l^4\,r^8\,R^2+1296\,l^2\,r^{10}\,R^2+60\,r^{12}\,R^2+384\,l^{10}\,r\,R^3-6832\,l^8\,r^3\,R^3+23\,104\,l^6\,r^5\,R^3-31\,264\,l^4\,r^7\,R^3+19\,136\,l^2\,r^9\,R^3-1200\,r^{11}\,R^3+56\,l^{10}\,R^4-5272\,l^8\,r^2\,R^4+45\,872\,l^6\,r^4\,R^4-102\,960\,l^4\,r^6\,R^4+94\,872\,l^2\,r^8\,R^4-13\,112\,r^{10}\,R^4-1568\,l^8\,r\,R^5+40\,480\,l^6\,r^3\,R^5-179\,808\,l^4\,r^5\,R^5+248\,928\,l^2\,r^7\,R^5-61\,696\,r^9\,R^5-128\,l^8\,R^6+17\,440\,l^6\,r^2\,R^6-177\,632\,l^4\,r^4\,R^6+398\,304\,l^2\,r^6\,R^6-168\,352\,r^8\,R^6+3072\,l^6\,r\,R^7-96\,832\,l^4\,r^3\,R^7+406\,912\,l^2\,r^5\,R^7-291\,904\,r^7\,R^7+144\,l^6\,R^8-26\,768\,l^4\,r^2\,R^8+261\,168\,l^2\,r^4\,R^8-334\,512\,r^6\,R^8-2880\,l^4\,r\,R^9+98\,176\,l^2\,r^3\,R^9-253\,248\,r^5\,R^9-64\,l^4\,R^{10}+18\,304\,l^2\,r^2\,R^{10}-121\,920\,r^4\,R^{10}+1024\,l^2\,r\,R^{11}-33\,792\,r^3\,R^{11}-4096\,r^2\,R^{12}\right)\Big/$$
$$\left(\left(l^2+r^2-8\,r\,R\right)^2\left(l^4-14\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R+16\,r^2\,R^2-4\,R^4\right)^2\right)\Big)\Big\}$$

$$\{X43,\ X(6)\text{-CEVA CONJUGATE OF } X(1),\ X97,\ \text{ISOGONAL CONJUGATE OF } X(53),$$
$$-\Big(\Big(R\,\big(12\,l^{10}\,r^3-52\,l^8\,r^5-104\,l^6\,r^7-8\,l^4\,r^9+28\,l^2\,r^{11}-4\,r^{13}-10\,l^{10}\,r^2\,R-298\,l^8\,r^4\,R+1708\,l^6\,r^6\,R-$$
$$1444\,l^4\,r^8\,R+574\,l^2\,r^{10}\,R-82\,r^{12}\,R+4\,l^{10}\,r\,R^2+144\,l^8\,r^3\,R^2+1584\,l^6\,r^5\,R^2-6152\,l^4\,r^7\,R^2+$$
$$3980\,l^2\,r^9\,R^2-712\,r^{11}\,R^2-l^{10}\,R^3-21\,l^8\,r^2\,R^3+770\,l^6\,r^4\,R^3-9366\,l^4\,r^6\,R^3+13055\,l^2\,r^8\,R^3-$$
$$3413\,r^{10}\,R^3-16\,l^8\,r\,R^4-944\,l^6\,r^3\,R^4-3504\,l^4\,r^5\,R^4+21360\,l^2\,r^7\,R^4-9856\,r^9\,R^4+8\,l^8\,R^5+$$
$$496\,l^6\,r^2\,R^5+864\,l^4\,r^4\,R^5+14928\,l^2\,r^6\,R^5-17448\,r^8\,R^5-32\,l^6\,r\,R^6+1760\,l^4\,r^3\,R^6-$$
$$736\,l^2\,r^5\,R^6-17888\,r^7\,R^6-16\,l^6\,R^7-1520\,l^4\,r^2\,R^7-6832\,l^2\,r^4\,R^7-7376\,r^6\,R^7+$$
$$128\,l^4\,r\,R^8-2816\,l^2\,r^3\,R^8+5248\,r^5\,R^8+1792\,l^2\,r^2\,R^9+8960\,r^4\,R^9+4096\,r^3\,R^{10}\big)\Big)\Big/$$
$$\Big(\big(l^2+r^2-8\,r\,R\big)^2\,\big(l^4-6\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-7\,l^2\,R^2+23\,r^2\,R^2+28\,r\,R^3+12\,R^4\big)^2\Big)\Big)\}$$

$$\{X43,\ X(6)\text{-CEVA CONJUGATE OF } X(1),\ X98,\ \text{TarryPoint},$$
$$-\frac{1}{\big(l^2+r^2-8\,r\,R\big)^2\,\big(l^4-14\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R+16\,r^2\,R^2\big)}$$
$$\big(l^{10}+5\,l^8\,r^2+10\,l^6\,r^4+10\,l^4\,r^6+5\,l^2\,r^8+r^{10}-28\,l^8\,r\,R-40\,l^6\,r^3\,R+16\,l^4\,r^5\,R+40\,l^2\,r^7\,R+12\,r^9\,R-$$
$$4\,l^8\,R^2+272\,l^6\,r^2\,R^2-392\,l^4\,r^4\,R^2+304\,l^2\,r^6\,R^2-52\,r^8\,R^2+96\,l^6\,r\,R^3-1248\,l^4\,r^3\,R^3+1696\,l^2\,r^5\,R^3-$$
$$1056\,r^7\,R^3-832\,l^4\,r^2\,R^4+3968\,l^2\,r^4\,R^4-4416\,r^6\,R^4+3072\,l^2\,r^3\,R^5-7168\,r^5\,R^5-4096\,r^4\,R^6\big)\}$$

$$\{X43,\ X(6)\text{-CEVA CONJUGATE OF } X(1),\ X99,\ \text{STEINER POINT},$$
$$\big(l^{10}+5\,l^8\,r^2+10\,l^6\,r^4+10\,l^4\,r^6+5\,l^2\,r^8+r^{10}-24\,l^8\,r\,R-88\,l^6\,r^3\,R-$$
$$88\,l^4\,r^5\,R-8\,l^2\,r^7\,R+16\,r^9\,R+112\,l^6\,r^2\,R^2+640\,l^4\,r^4\,R^2-464\,l^2\,r^6\,R^2+32\,r^8\,R^2+$$
$$384\,l^4\,r^3\,R^3-128\,l^2\,r^5\,R^3-512\,r^7\,R^3-1792\,l^2\,r^4\,R^4-2816\,r^6\,R^4-4096\,r^5\,R^5\big)\Big/$$
$$\Big(\big(l^2+r^2-8\,r\,R\big)^2\,\big(l^4-14\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R+16\,r^2\,R^2\big)\Big)\}$$

$$\{X43,\ X(6)\text{-CEVA CONJUGATE OF } X(1),\ X100,\ \text{ANTICOMPLEMENT OF FEUERBACH POINT},$$
$$\frac{R\,\big(-l^6+l^4\,r^2+5\,l^2\,r^4+3\,r^6+24\,l^4\,r\,R-64\,l^2\,r^3\,R+40\,r^5\,R-144\,l^2\,r^2\,R^2+176\,r^4\,R^2+256\,r^3\,R^3\big)}{(2\,r-R)\,\big(l^2+r^2-8\,r\,R\big)^2}\}$$

$$\{X44,\ X(6)\text{-LINE CONJUGATE OF } X(1),\ X45,$$
$$X(9)\text{-BETH CONJUGATE OF } X(1),\ \frac{144\,l^4\,r^2\,R\,\big(l^2\,r-r^3+l^2\,R-8\,r^2\,R-16\,r\,R^2\big)}{\big(l^2-3\,r^2-12\,r\,R\big)^2\,\big(l^2+3\,r^2+12\,r\,R\big)^2}\}$$

$$\{X44,\ X(6)\text{-LINE CONJUGATE OF } X(1),\ X46,\ X(4)\text{-CEVA CONJUGATE OF } X(1),$$
$$-\frac{4\,r^2\,R\,\big(-l^4\,r-3\,l^2\,r^3+2\,l^4\,R+21\,l^2\,r^2\,R-39\,l^2\,r\,R^2+9\,r^3\,R^2-9\,l^2\,R^3+72\,r^2\,R^3+144\,r\,R^4\big)}{(r-R)^2\,\big(-l^2+3\,r^2+12\,r\,R\big)^2}\}$$

$$\{X44,\ X(6)\text{-LINE CONJUGATE OF } X(1),\ X47,\ X(110)\text{-BETH CONJUGATE OF } X(34),$$
$$\Big(4\,r^2\,R\,\big(2\,l^6\,r-12\,l^4\,r^3+18\,l^2\,r^5+4\,l^6\,R-25\,l^4\,r^2\,R+42\,l^2\,r^4\,R-9\,r^6\,R-106\,l^4\,r\,R^2+$$
$$288\,l^2\,r^3\,R^2-126\,r^5\,R^2-24\,l^4\,R^3+612\,l^2\,r^2\,R^3-648\,r^4\,R^3+492\,l^2\,r\,R^4-1476\,r^3\,R^4+$$
$$36\,l^2\,R^5-1440\,r^2\,R^5-576\,r\,R^6\big)\Big)\Big/\Big(\big(l^2-3\,r^2-12\,r\,R\big)^2\,\big(l^2-3\,r^2-6\,r\,R-2\,R^2\big)^2\Big)\}$$

$$\{X44,\ X(6)\text{-LINE CONJUGATE OF } X(1),\ X48,\ \text{CROSSPOINT OF } X(1)\ \text{AND } X(63),$$
$$\frac{4\,l^4\,R\,\big(6\,l^4\,r+28\,l^2\,r^3-10\,r^5-l^4\,R-106\,l^2\,r^2\,R-57\,r^4\,R-4\,l^2\,r\,R^2+20\,r^3\,R^2+4\,l^2\,R^3+336\,r^2\,R^3-64\,r\,R^4\big)}{\big(l^2-3\,r^2-12\,r\,R\big)^2\,\big(3\,l^2-r^2-6\,r\,R-8\,R^2\big)^2}$$
$$\}$$

$$\{X44,\ X(6)\text{-LINE CONJUGATE OF } X(1),\ X49,$$
$$\text{CENTER OF SINE-TRIPLE-ANGLE CIRCLE},\ \frac{1}{\big(l^2-3\,r^2-12\,r\,R\big)^2\,\big(2\,l^2-2\,r^2-8\,r\,R-7\,R^2\big)^2}$$
$$R\,\big(8\,l^8\,r+40\,l^6\,r^3-72\,l^4\,r^5+24\,l^2\,r^7-l^8\,R-156\,l^6\,r^2\,R-158\,l^4\,r^4\,R+180\,l^2\,r^6\,R-9\,r^8\,R-36\,l^6\,r\,R^2+$$
$$88\,l^4\,r^3\,R^2+684\,l^2\,r^5\,R^2-144\,r^7\,R^2+4\,l^6\,R^3+876\,l^4\,r^2\,R^3+1188\,l^2\,r^4\,R^3-900\,r^6\,R^3+28\,l^4\,r\,R^4+$$
$$180\,l^2\,r^3\,R^4-2736\,r^5\,R^4+l^4\,R^5-1314\,l^2\,r^2\,R^5-4023\,r^4\,R^5-24\,l^2\,r\,R^6-2232\,r^3\,R^6+144\,r^2\,R^7\big)\}$$

$$\{X44,\ X(6)\text{-LINE CONJUGATE OF }X(1),\ X50,\ X(74)\text{-CEVA CONJUGATE OF }X(184),$$
$$\left(16 l^4 r^2 R \left(-4 l^4 r^3+24 l^2 r^5-4 r^7+l^6 R-l^4 r^2 R+3 l^2 r^4 R-43 r^6 R-27 l^4 r R^2+126 l^2 r^3 R^2-183 r^5 R^2-6 l^4 R^3+186 l^2 r^2 R^3-448 r^4 R^3+129 l^2 r R^4-697 r^3 R^4+9 l^2 R^5-456 r^2 R^5-144 r R^6\right)\right)\Big/\left(\left(l^2-3 r^2-12 r R\right)^2\left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-3 l^2 R^2+19 r^2 R^2+12 r R^3\right)^2\right)\}$$

$$\{X44,\ X(6)\text{-LINE CONJUGATE OF }X(1),\ X51,\ \text{CENTROID OF ORTHIC TRIANGLE},$$
$$-\frac{1}{36 R^2\left(-l^2+3 r^2+12 r R\right)^2}\left(l^8+12 l^6 r^2-98 l^4 r^4+156 l^2 r^6+9 r^8-8 l^6 r R-352 l^4 r^3 R+1080 l^2 r^5 R+144 r^7 R-4 l^6 R^2-340 l^4 r^2 R^2+2676 l^2 r^4 R^2+900 r^6 R^2+16 l^4 r R^3+2592 l^2 r^3 R^3+2736 r^5 R^3+624 l^2 r^2 R^4+4032 r^4 R^4+2304 r^3 R^5\right)\}$$

$$\{X44,\ X(6)\text{-LINE CONJUGATE OF }X(1),\ X52,\ \text{ORTHOCENTER OF ORTHIC TRIANGLE},$$
$$\frac{1}{4 R^2\left(-l^2+3 r^2+12 r R\right)^2}\left(l^8-20 l^6 r^2+94 l^4 r^4-132 l^2 r^6+9 r^8-40 l^6 r R+480 l^4 r^3 R-1128 l^2 r^5 R+144 r^7 R-4 l^6 R^2+588 l^4 r^2 R^2-3180 l^2 r^4 R^2+900 r^6 R^2+128 l^4 r R^3-3312 l^2 r^3 R^3+2736 r^5 R^3+4 l^4 R^4-1224 l^2 r^2 R^4+4068 r^4 R^4-96 l^2 r R^5+2592 r^3 R^5+576 r^2 R^6\right)\}$$

$$\{X44,\ X(6)\text{-LINE CONJUGATE OF }X(1),\ X53,\ \text{SYMMEDIAN POINT OF ORTHIC TRIANGLE},$$
$$-\left(\left(16 l^4 r^2\left(2 l^6 r^2-18 l^4 r^4+38 l^2 r^6-6 r^8-l^6 r R-27 l^4 r^3 R+165 l^2 r^5 R-65 r^7 R-l^6 R^2+14 l^4 r^2 R^2+143 l^2 r^4 R^2-224 r^6 R^2+32 l^4 r R^3-160 l^2 r^3 R^3-160 r^5 R^3+8 l^4 R^4-264 l^2 r^2 R^4+544 r^4 R^4-176 l^2 r R^5+1040 r^3 R^5-16 l^2 R^6+640 r^2 R^6+256 r R^7\right)\right)\Big/\left(\left(l^2-3 r^2-12 r R\right)^2\left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-4 l^2 R^2+20 r^2 R^2+16 r R^3\right)^2\right)\right)\}$$

$$\{X44,\ X(6)\text{-LINE CONJUGATE OF }X(1),\ X54,\ \text{KosnitaPoint},\ \frac{1}{\left(l^2-3 r^2-12 r R\right)^2\left(2 l^2-2 r^2-8 r R-5 R^2\right)^2}$$
$$R\left(8 l^8 r+40 l^6 r^3-72 l^4 r^5+24 l^2 r^7-152 l^6 r^2 R-176 l^4 r^4 R+168 l^2 r^6 R-52 l^6 r R^2+216 l^4 r^3 R^2+396 l^2 r^5 R^2-l^6 R^3+919 l^4 r^2 R^3+33 l^2 r^4 R^3+9 r^6 R^3+108 l^4 r R^4-1296 l^2 r^3 R^4+108 r^5 R^4+4 l^4 R^5-1524 l^2 r^2 R^5+468 r^4 R^5-96 l^2 r R^6+864 r^3 R^6+576 r^2 R^7\right)\}$$

$$\{X44,\ X(6)\text{-LINE CONJUGATE OF }X(1),\ X55,\ \text{INSIMILICENTER(CIRCUMCIRCLE, INCIRCLE)},$$
$$-\frac{r^2 R\left(-4 l^4 r-12 l^2 r^3-7 l^4 R+30 l^2 r^2 R+9 r^4 R+60 l^2 r R^2+108 r^3 R^2-36 l^2 R^3+432 r^2 R^3+576 r R^4\right)}{(r+R)^2\left(-l^2+3 r^2+12 r R\right)^2}\}$$

$$\{X44,\ X(6)\text{-LINE CONJUGATE OF }X(1),\ X56,\ \text{EXSIMILICENTER(CIRCUMCIRCLE, INCIRCLE)},$$
$$\frac{r^2 R\left(4 l^4 r+12 l^2 r^3-5 l^4 R-102 l^2 r^2 R+27 r^4 R+84 l^2 r R^2+180 r^3 R^2+36 l^2 R^3+144 r^2 R^3-576 r R^4\right)}{(r-R)^2\left(-l^2+3 r^2+12 r R\right)^2}\}$$

$$\{X44,\ X(6)\text{-LINE CONJUGATE OF }X(1),\ X57,\ \text{ISOGONAL CONJUGATE OF }X(9),$$
$$-\frac{4 r^2 R\left(-l^4 r-3 l^2 r^3+5 l^4 R+21 l^2 r^2 R+9 r^4 R-120 l^2 r R^2+108 r^3 R^2-36 l^2 R^3+432 r^2 R^3+576 r R^4\right)}{(r-2 R)^2\left(-l^2+3 r^2+12 r R\right)^2}\}$$

$$\{X44,\ X(6)\text{-LINE CONJUGATE OF }X(1),\ X58,\ \text{ISOGONAL CONJUGATE OF }X(10),$$
$$\left(4 r^2 R\left(2 l^6 r-12 l^4 r^3+18 l^2 r^5+4 l^6 R-7 l^4 r^2 R-18 l^2 r^4 R+9 r^6 R-64 l^4 r R^2+72 l^2 r^3 R^2+72 r^5 R^2+144 r^4 R^3\right)\right)\Big/\left(\left(l^2-3 r^2-12 r R\right)^2\left(l^2-3 r^2-4 r R\right)^2\right)\}$$

$$\{X44,\ X(6)\text{-LINE CONJUGATE OF }X(1),\ X59,$$
$$\text{ISOGONAL CONJUGATE OF }X(11),\ \frac{1}{(2 r-R)\left(-l^2+3 r^2+12 r R\right)^2\left(-l^2+r^2+5 r R+4 R^2\right)^2}$$
$$r^2 R\left(4 l^8+20 l^6 r^2-36 l^4 r^4+12 l^2 r^6-104 l^6 r R-112 l^4 r^3 R+120 l^2 r^5 R-61 l^6 R^2+447 l^4 r^2 R^2+261 l^2 r^4 R^2+9 r^6 R^2+1356 l^4 r R^3-960 l^2 r^3 R^3+180 r^5 R^3+320 l^4 R^4-4884 l^2 r^2 R^4+1440 r^4 R^4-6048 l^2 r R^5+5760 r^3 R^5-576 l^2 R^6+11520 r^2 R^6+9216 r R^7\right)\}$$

$$\left\{X44,\ X(6)\text{-LINE CONJUGATE OF }X(1),\ X60,\ \text{ISOGONAL CONJUGATE OF }X(12),\ \frac{1}{\left(l^2-3r^2-12rR\right)^2\left(2l^2r-2r^3+l^2R-7r^2R-7rR^2\right)^2}\right.$$
$$\left.r^2R\left(8l^8r+40l^6r^3-72l^4r^5+24l^2r^7+4l^8R-76l^6r^2R-164l^4r^4R+108l^2r^6R-38l^6rR^2-478l^4r^3R^2+438l^2r^5R^2-18r^7R^2+9l^6R^3-395l^4r^2R^3+1071l^2r^4R^3-189r^6R^3-180l^4rR^4+1464l^2r^3R^4-684r^5R^4+612l^2r^2R^5-1008r^4R^5-576r^3R^6\right)\right\}$$

$$\left\{X44,\ X(6)\text{-LINE CONJUGATE OF }X(1),\ X61,\ \text{ISOGONAL CONJUGATE OF }X(17),\right.$$
$$\left(12l^2r^2R\left(2\sqrt{3}\,l^5+16l^4r+12\sqrt{3}\,l^3r^2-6\sqrt{3}\,lr^4+13l^4R-24\sqrt{3}\,l^3rR-162l^2r^2R-48\sqrt{3}\,lr^3R+9r^4R-216l^2rR^2-96\sqrt{3}\,lr^2R^2+72r^3R^2+144r^2R^3\right)\right)\Big/$$
$$\left.\left(\left(l^2-3r^2-12rR\right)^2\left(3l^2+2\sqrt{3}\,lr-3r^2-12rR\right)^2\right)\right\}$$

$$\left\{X44,\ X(6)\text{-LINE CONJUGATE OF }X(1),\ X62,\ \text{ISOGONAL CONJUGATE OF }X(18),\right.$$
$$-\left(\left(12l^2r^2R\left(2\sqrt{3}\,l^5-16l^4r+12\sqrt{3}\,l^3r^2-6\sqrt{3}\,lr^4-13l^4R-24\sqrt{3}\,l^3rR+162l^2r^2R-48\sqrt{3}\,lr^3R-9r^4R+216l^2rR^2-96\sqrt{3}\,lr^2R^2-72r^3R^2-144r^2R^3\right)\right)\Big/$$
$$\left.\left(\left(l^2-3r^2-12rR\right)^2\left(3l^2-2\sqrt{3}\,lr-3r^2-12rR\right)^2\right)\right)\right\}$$

$$\left\{X44,\ X(6)\text{-LINE CONJUGATE OF }X(1),\ X63,\ \text{ISOGONAL CONJUGATE OF }X(19),\right.$$
$$\left.-\left(\left(R\left(-2l^6r-6l^2r^5-l^6R+43l^4r^2R-15l^2r^4R+9r^6R+28l^4rR^2-264l^2r^3R^2+108r^5R^2-228l^2r^2R^3+432r^4R^3+576r^3R^4\right)\right)\Big/\left((r+R)^2\left(-l^2+3r^2+12rR\right)^2\right)\right)\right\}$$

$$\left\{X44,\ X(6)\text{-LINE CONJUGATE OF }X(1),\ X64,\ \text{ISOGONAL CONJUGATE OF }X(20),\ \frac{1}{(l-r-2R)^2(l+r+2R)^2\left(l^2-3r^2-12rR\right)^2}\right.$$
$$\left.4R\left(2l^8r-2l^6r^3-6l^4r^5+6l^2r^7+3l^8R-68l^6r^2R+106l^4r^4R-48l^2r^6R+27r^8R-112l^6rR^2+792l^4r^3R^2-936l^2r^5R^2+432r^7R^2-28l^6R^3+1540l^4r^2R^3-4404l^2r^4R^3+2844r^6R^3+816l^4rR^4-8928l^2r^3R^4+9936r^5R^4+64l^4R^5-7536l^2r^2R^5+19584r^4R^5-1536l^2rR^6+20736r^3R^6+9216r^2R^7\right)\right\}$$

$$\left\{X44,\ X(6)\text{-LINE CONJUGATE OF }X(1),\ X65,\ \text{ORTHOCENTER OF THE INTOUCH TRIANGLE},\right.$$
$$-\frac{1}{R\left(-l^2+3r^2+12rR\right)^2}r^2\left(2l^4r-12l^2r^3+18r^5+5l^4R-78l^2r^2R+189r^4R-156l^2rR^2+684r^3R^2-36l^2R^3+1008r^2R^3+576rR^4\right)\Big\}$$

$$\left\{X44,\ X(6)\text{-LINE CONJUGATE OF }X(1),\ X66,\ \text{ISOGONAL CONJUGATE OF }X(22),\right.$$
$$\frac{1}{(l-r-2R)^2(l+r+2R)^2\left(l^2-3r^2-12rR\right)^2\left(l^2-r^2-4rR\right)^2}$$
$$\left(12l^{12}r^2-92l^{10}r^4+264l^8r^6-360l^6r^8+236l^4r^{10}-60l^2r^{12}+4l^{12}rR-364l^{10}r^3R+2040l^8r^5R-4168l^6r^7R+3652l^4r^9R-1164l^2r^{11}R-l^{12}R^2-230l^{10}r^2R^2+4985l^8r^4R^2-18084l^6r^6R^2+22897l^4r^8R^2-9558l^2r^{10}R^2-9r^{12}R^2+8l^{10}rR^3+3992l^8r^3R^3-36032l^6r^5R^3+74304l^4r^7R^3-43080l^2r^9R^3-216r^{11}R^3+4l^{10}R^4+572l^8r^2R^4-31832l^6r^4R^4+131416l^4r^6R^4-115116l^2r^8R^4-2196r^{10}R^4-80l^8rR^5-9216l^6r^3R^5+120480l^4r^5R^5-182400l^2r^7R^5-12240r^9R^5+80l^6r^2R^6+46880l^4r^4R^6-159408l^2r^6R^6-40320r^8R^6+3200l^4r^3R^7-61824l^2r^5R^7-78336r^7R^7-3840l^2r^4R^8-82944r^6R^8-36864r^5R^9\right)\Big\}$$

$$\left\{X44,\ X(6)\text{-LINE CONJUGATE OF }X(1),\ X67,\ \text{ISOGONAL CONJUGATE OF }X(23),\ \frac{1}{\left(l^2-3r^2-12rR\right)^2\left(l^2-r^2-4rR\right)^2\left(2l^2-2r^2-8rR-9R^2\right)}\right.$$
$$\left(l^{12}+18l^{10}r^2-153l^8r^4+380l^6r^6-369l^4r^8+114l^2r^{10}+9r^{12}-28l^{10}rR-456l^8r^3R+2616l^6r^5R-3920l^4r^7R+1572l^2r^9R+216r^{11}R-4l^{10}R^2+108l^8r^2R^2+5040l^6r^4R^2-15008l^4r^6R^2+8436l^2r^8R^2+2196r^{10}R^2+96l^8rR^3+2096l^6r^3R^3-25248l^4r^5R^3+22464l^2r^7R^3+12240r^9R^3-384l^6r^2R^4-17984l^4r^4R^4+31920l^2r^6R^4+40320r^8R^4-2816l^4r^3R^5+24960l^2r^5R^5+78336r^7R^5+9984l^2r^4R^6+82944r^6R^6+36864r^5R^7\right)\Big\}$$

$$\left\{X44,\ X(6)\text{-LINE CONJUGATE OF }X(1),\ X68,\ \text{PRASOLOV POINT},\ \frac{1}{(l-r-2R)^2(l+r+2R)^2\left(l^2-3r^2-12rR\right)^2}\right.$$
$$\left(12l^8r^2-68l^6r^4+116l^4r^6-60l^2r^8+4l^8rR-260l^6r^3R+876l^4r^5R-684l^2r^7R+l^8R^2-208l^6r^2R^2+2278l^4r^4R^2-3120l^2r^6R^2+9r^8R^2-56l^6rR^3+2480l^4r^3R^3-7368l^2r^5R^3+144r^7R^3-4l^6R^4+1084l^4r^2R^4-9468l^2r^4R^4+900r^6R^4+144l^4rR^5-5952l^2r^3R^5+2736r^5R^5+4l^4R^6-1560l^2r^2R^6+4068r^4R^6-96l^2rR^7+2592r^3R^7+576r^2R^8\right)\Big\}$$

$$\left\{X44,\ X(6)\text{-LINE CONJUGATE OF }X(1),\ X69,\ \text{SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},\right.$$
$$\left(l^{10}+7l^8r^2-66l^6r^4+130l^4r^6-63l^2r^8-9r^{10}-28l^8rR-144l^6r^3R+800l^4r^5R-576l^2r^7R-180r^9R+180l^6r^2R^2+1240l^4r^4R^2-1836l^2r^6R^2-1440r^8R^2+480l^4r^3R^3-3168l^2r^5R^3-5760r^7R^3-4032l^2r^4R^4-11520r^6R^4-9216r^5R^5\right)\Big/\left(\left(l^2-3r^2-12rR\right)^2\left(l^2-r^2-4rR\right)^2\right)\Big\}$$

$$\left\{X44,\ X(6)\text{-LINE CONJUGATE OF }X(1),\ X70,\ \text{ISOGONAL CONJUGATE OF }X(26),\right.$$
$$\left(12l^{12}r^2-92l^{10}r^4+264l^8r^6-360l^6r^8+236l^4r^{10}-60l^2r^{12}+4l^{12}rR-364l^{10}r^3R+2040l^8r^5R-4168l^6r^7R+3652l^4r^9R-1164l^2r^{11}R-284l^{10}r^2R^2+5312l^8r^4R^2-18808l^6r^6R^2+23584l^4r^8R^2-9804l^2r^{10}R^2-44l^{10}rR^3+5408l^8r^3R^3-41864l^6r^5R^3+82528l^4r^7R^3-47052l^2r^9R^3-l^{10}R^4+1973l^8r^2R^4-47778l^6r^4R^4+169666l^4r^6R^4-141789l^2r^8R^4+9r^{10}R^4+200l^8rR^5-26172l^6r^3R^5+207044l^4r^5R^5-278340l^2r^7R^5+180r^9R^5+6l^8R^6-5920l^6r^2R^6+143796l^4r^4R^6-356976l^2r^6R^6+1494r^8R^6-428l^6rR^7+51272l^4r^3R^7-291564l^2r^5R^7+6624r^7R^7-9l^6R^8+7967l^4r^2R^8-142599l^2r^4R^8+16785r^6R^8+364l^4rR^9-36912l^2r^3R^9+24012r^5R^9+4l^4R^{10}-4116l^2r^2R^{10}+17748r^4R^{10}-96l^2rR^{11}+5472r^3R^{11}+576r^2R^{12}\right)\Big/$$
$$\left(\left(l^2-3r^2-12rR\right)^2\left(l^4-2l^2r^2+r^4-8l^2rR+8r^3R-6l^2R^2+22r^2R^2+24rR^3+7R^4\right)^2\right)\Big\}$$

$$\left\{X44,\ X(6)\text{-LINE CONJUGATE OF }X(1),\ X71,\ \text{ISOGONAL CONJUGATE OF }X(27),\ \frac{4l^4R\left(2l^4r+4l^2r^3+2r^5+3l^4R-34l^2r^2R+27r^4R-52l^2rR^2+116r^3R^2+4l^2R^3+144r^2R^3-64rR^4\right)}{\left(l^2-3r^2-12rR\right)^2\left(l^2+r^2+6rR+8R^2\right)^2}\right\}$$

$$\left\{X44,\ X(6)\text{-LINE CONJUGATE OF }X(1),\ X72,\ \text{ISOGONAL CONJUGATE OF }X(28),\ -\frac{\left(-l^2+3r^2+6rR\right)^2\left(-l^2r+r^3-l^2R+8r^2R+16rR^2\right)}{R\left(-l^2+3r^2+12rR\right)^2}\right\}$$

$$\left\{X44,\ X(6)\text{-LINE CONJUGATE OF }X(1),\ X73,\ \text{CROSSPOINT OF INCENTER AND CIRCUMCENTER},\right.$$
$$\left(4r^2R\left(6l^6r+12l^4r^3+6l^2r^5+8l^6R-45l^4r^2R-90l^2r^4R+27r^6R-188l^4rR^2-228l^2r^3R^2+288r^5R^2-68l^4R^3+540l^2r^2R^3+972r^4R^3+1248l^2rR^4+720r^3R^4+144l^2R^5-1728r^2R^5-2304rR^6\right)\right)\Big/\left(\left(l^2-3r^2-12rR\right)^2\left(l^2+r^2-2rR-4R^2\right)^2\right)\Big\}$$

$$\left\{X44,\ X(6)\text{-LINE CONJUGATE OF }X(1),\ X74,\ \text{ISOGONAL CONJUGATE OF EULER INFINITY POINT},\right.$$
$$\left(R\left(12l^6r+8l^4r^3-36l^2r^5+9l^6R-295l^4r^2R+207l^2r^4R-81r^6R-300l^4rR^2+1872l^2r^3R^2-972r^5R^2-36l^4R^3+3060l^2r^2R^3-4212r^4R^3+864l^2rR^4-7776r^3R^4-5184r^2R^5\right)\right)\Big/$$
$$\left(\left(l^2-3r^2-12rR\right)^2\left(2l^2-2r^2-8rR-9R^2\right)\right)\Big\}$$

$$\{X44,\ X(6)\text{-LINE CONJUGATE OF } X(1),\ X75,\ \text{ISOTOMIC CONJUGATE OF INCENTER},$$
$$\big(l^{10}+3l^8r^2-6l^6r^4-26l^4r^6-27l^2r^8-9r^{10}-28l^8rR+48l^6r^3R-256l^4r^5R-180r^9R+$$
$$276l^6r^2R^2-1016l^4r^4R^2+1620l^2r^6R^2-1440r^8R^2-1632l^4r^3R^3+6048l^2r^5R^3-$$
$$5760r^7R^3+5184l^2r^4R^4-11520r^6R^4-9216r^5R^5\big)\big/\big((l^2-3r^2-12rR)^2\,(l^2+r^2+4rR)^2\big)\}$$

$$\{X44,\ X(6)\text{-LINE CONJUGATE OF } X(1),\ X76,\ \text{3rd BROCARD POINT},$$
$$\big(l^{14}+5l^{12}r^2+l^{10}r^4-35l^8r^6-85l^6r^8-89l^4r^{10}-45l^2r^{12}-9r^{14}-36l^{12}rR-104l^{10}r^3R+12l^8r^5R+$$
$$48l^6r^7R-428l^4r^9R-648l^2r^{11}R-252r^{13}R+420l^{10}r^2R^2+928l^8r^4R^2-1608l^6r^6R^2+$$
$$1872l^4r^8R^2-3132l^2r^{10}R^2-3024r^{12}R^2-1408l^8r^3R^3-6976l^6r^5R^3+14656l^4r^7R^3-$$
$$4032l^2r^9R^3-20160r^{11}R^3-4992l^6r^4R^4+31744l^4r^6R^4+10368l^2r^8R^4-80640r^{10}R^4+$$
$$30720l^4r^5R^5+27648l^2r^7R^5-193536r^9R^5+9216l^2r^6R^6-258048r^8R^6-147456r^7R^7\big)\big/$$
$$\big((l^2-3r^2-12rR)^2\,(l^4+2l^2r^2+r^4-8l^2rR+8r^3R+16r^2R^2)^2\big)\}$$

$$\{X44,\ X(6)\text{-LINE CONJUGATE OF } X(1),\ X77,\ \text{ISOGONAL CONJUGATE OF } X(33),$$
$$\big(r^2R\,(30l^6r-24l^4r^3+18l^2r^5+45l^6R-347l^4r^2R+243l^2r^4R-9r^6R-1084l^4rR^2+$$
$$1440l^2r^3R^2-180r^5R^2-320l^4R^3+4500l^2r^2R^3-1440r^4R^3+6048l^2rR^4-5760r^3R^4+$$
$$576l^2R^5-11520r^2R^5-9216rR^6)\big)\big/\big((l^2-3r^2-12rR)^2\,(l^2-rR-4R^2)^2\big)\}$$

$$\{X44,\ X(6)\text{-LINE CONJUGATE OF } X(1),\ X78,\ \text{ISOGONAL CONJUGATE OF } X(34),$$
$$-\big((R\,(6l^4r^3-48l^2r^5+18r^7-l^6R+7l^4r^2R-63l^2r^4R+189r^6R+28l^4rR^2-216l^2r^3R^2+$$
$$684r^5R^2-228l^2r^2R^3+1008r^4R^3+576r^3R^4)\big)\big/\big((r-R)^2\,(-l^2+3r^2+12rR)^2\big)\big)\}$$

$$\{X44,\ X(6)\text{-LINE CONJUGATE OF } X(1),\ X79,\ \text{ISOGONAL CONJUGATE OF } X(35),$$
$$-\big((4r^2\,(2l^6-20l^4r^2+42l^2r^4-59l^4rR+246l^2r^3R+9r^5R+330l^2r^2R^2+126r^4R^2-117l^2rR^3+$$
$$657r^3R^3-81l^2R^4+1512r^2R^4+1296rR^5)\big)\big/\big((2r+3R)^2\,(-l^2+3r^2+12rR)^2\big)\big)\}$$

$$\{X44,\ X(6)\text{-LINE CONJUGATE OF } X(1),\ X80,\ \text{REFLECTION OF INCENTER IN FEUERBACH POINT},$$
$$\big(4r^2\,(5l^4r-18l^2r^3+9r^5+2l^4R-72l^2r^2R+90r^4R-63l^2rR^2+$$
$$297r^3R^2-9l^2R^3+360r^2R^3+144rR^4)\big)\big/\big((2r-R)\,(-l^2+3r^2+12rR)^2\big)\}$$

$$\{X44,\ X(6)\text{-LINE CONJUGATE OF } X(1),\ X81,\ \text{CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},$$
$$\big(r^2R\,(20l^6r-24l^4r^3-12l^2r^5+25l^6R-55l^4r^2R-201l^2r^4R-9r^6R-340l^4rR^2-600l^2r^3R^2-$$
$$108r^5R^2-924l^2r^2R^3-432r^4R^3-576r^3R^4)\big)\big/\big((l^2-3r^2-12rR)^2\,(l^2-r^2-rR)^2\big)\}$$

$$\{X44,\ X(6)\text{-LINE CONJUGATE OF } X(1),\ X82,\ \text{ISOGONAL CONJUGATE OF } X(38),$$
$$\big(r^2R\,(10l^{10}r-74l^8r^3+180l^6r^5-164l^4r^7+66l^2r^9-18r^{11}+25l^{10}R-229l^8r^2R+882l^6r^4R-$$
$$1602l^4r^6R+1173l^2r^8R-441r^{10}R-740l^8rR^2+3560l^6r^3R^2-8152l^4r^5R^2+$$
$$9288l^2r^7R^2-4500r^9R^2+7316l^6r^2R^3-26200l^4r^4R^3+40116l^2r^6R^3-24480r^8R^3-$$
$$34912l^4r^3R^4+90912l^2r^5R^4-74880r^7R^4+83520l^2r^4R^5-122112r^6R^5-82944r^5R^6)\big)\big/$$
$$\big((l^2-3r^2-12rR)^2\,(l^4-4l^2r^2+3r^4-9l^2rR+19r^3R+28r^2R^2)^2\big)\}$$

$$\{X44,\ X(6)\text{-LINE CONJUGATE OF } X(1),\ X83,\ \text{CEVAPOINT OF CENTROID AND SYMMEDIAN POINT},$$
$$\big(l^{14}+21l^{12}r^2-15l^{10}r^4-131l^8r^6-117l^6r^8-9l^4r^{10}+3l^2r^{12}-9r^{14}-4l^{12}rR-168l^{10}r^3R-$$
$$500l^8r^5R+496l^6r^7R-460l^4r^9R+504l^2r^{11}R-252r^{13}R-284l^{10}r^2R^2-1312l^8r^4R^2+$$
$$7032l^6r^6R^2-8176l^4r^8R^2+8388l^2r^{10}R^2-3024r^{12}R^2+896l^8r^3R^3+23232l^6r^5R^3-51648l^4r^7R^3+$$
$$57408l^2r^9R^3-20160r^{11}R^3+14464l^6r^4R^4-126976l^4r^6R^4+194688l^2r^8R^4-80640r^{10}R^4-$$
$$96256l^4r^5R^5+322560l^2r^7R^5-193536r^9R^5+205824l^2r^6R^6-258048r^8R^6-147456r^7R^7\big)\big/$$
$$\big((l^2-3r^2-12rR)^2\,(5l^4-6l^2r^2+5r^4-40l^2rR+40r^3R+80r^2R^2)^2\big)\}$$

$$\{X44,\ X(6)\text{-LINE CONJUGATE OF } X(1),\ X84,\ \text{ISOGONAL CONJUGATE OF } X(40),$$
$$\frac{1}{r^2\,(-l^2+3r^2+12rR)^2}4R\,(l^6r-l^4r^3-l^6R-20l^4r^2R+6l^2r^4R+24l^4rR^2+$$
$$96l^2r^3R^2+4l^4R^3-168l^2r^2R^3+36r^4R^3-96l^2rR^4+288r^3R^4+576r^2R^5)\}$$

$$\Big\{X44,\ X(6)\text{-LINE CONJUGATE OF }X(1),\ X85,\ \text{ISOTOMIC CONJUGATE OF }X(9),\ \frac{1}{(l^2-3r^2-12rR)^2\,(l^2+r^2+8rR+16R^2)^2}$$
$$(l^{10}+3l^8r^2-6l^6r^4-26l^4r^6-27l^2r^8-9r^{10}-36l^8rR+144l^6r^3R-368l^4r^5R-288l^2r^7R-252r^9R+612l^6r^2R^2-1992l^4r^4R^2-252l^2r^6R^2-3024r^8R^2+192l^6rR^3-4928l^4r^3R^3+7488l^2r^5R^3-20160r^7R^3-4736l^4r^2R^4+33408l^2r^4R^4-80640r^6R^4+46080l^2r^3R^5-193536r^5R^5+9216l^2r^2R^6-258048r^4R^6-147456r^3R^7)\Big\}$$

$$\Big\{X44,\ X(6)\text{-LINE CONJUGATE OF }X(1),\ X86,\ \text{CEVAPOINT OF INCENTER AND CENTROID},$$
$$(l^{10}+27l^8r^2-30l^6r^4-146l^4r^6-99l^2r^8-9r^{10}+20l^8rR+336l^6r^3R-784l^4r^5R-1152l^2r^7R-180r^9R-204l^6r^2R^2-2072l^4r^4R^2-5292l^2r^6R^2-1440r^8R^2-5088l^4r^3R^3-12384l^2r^5R^3-5760r^7R^3-13248l^2r^4R^4-11520r^6R^4-9216r^5R^5)\big/\big((l^2-3r^2-12rR)^2\,(5l^2+r^2+4rR)^2\big)\Big\}$$

$$\Big\{X44,\ X(6)\text{-LINE CONJUGATE OF }X(1),\ X87,\ X(2)\text{-CROSS CONJUGATE OF }X(1),$$
$$(4r^2R\,(3l^{10}r+21l^8r^3+54l^6r^5+66l^4r^7+39l^2r^9+9r^{11}+l^{10}R-136l^8r^2R-362l^6r^4R-132l^4r^6R+273l^2r^8R+180r^{10}R-72l^8rR^2+1576l^6r^3R^2-1336l^4r^5R^2+504l^2r^7R^2+1440r^9R^2+1680l^6r^2R^3-2144l^4r^4R^3+912l^2r^6R^3+5760r^8R^3-12544l^4r^3R^4+3072l^2r^5R^4+11520r^7R^4+9216r^6R^5))\big/\big((l^2-3r^2-12rR)^2\,(l^4+2l^2r^2+r^4-20l^2rR+12r^3R+32r^2R^2)^2\big)\Big\}$$

$$\Big\{X44,\ X(6)\text{-LINE CONJUGATE OF }X(1),\ X88,\ \text{ISOGONAL CONJUGATE OF }X(44),$$
$$(9r^2R\,(4l^6r+8l^4r^3+36l^2r^5+l^6R-143l^4r^2R-81l^2r^4R-81r^6R-52l^4rR^2+1512l^2r^3R^2-972r^5R^2+900l^2r^2R^3-3888r^4R^3-5184r^3R^4))\big/\big((l^2+3r^2-15rR)^2\,(l^2-3r^2-12rR)^2\big)\Big\}$$

$$\Big\{X44,\ X(6)\text{-LINE CONJUGATE OF }X(1),\ X89,\ \text{ISOGONAL CONJUGATE OF }X(45),$$
$$\frac{81r^2R^2\,(l^6+17l^4r^2-57l^2r^4-9r^6-4l^4rR-24l^2r^3R-108r^5R-156l^2r^2R^2-432r^4R^2-576r^3R^3)}{(l^2-3r^2-12rR)^2\,(2l^2-6r^2+3rR)^2}\Big\}$$

$$\Big\{X44,\ X(6)\text{-LINE CONJUGATE OF }X(1),\ X90,\ X(3)\text{-CROSS CONJUGATE OF }X(1),$$
$$(4r^2R\,(l^6r-l^4r^3-14l^4r^2R+3l^2r^4R-6l^4rR^2+42l^2r^3R^2-2l^4R^3+48l^2r^2R^3+45l^2rR^4-9r^3R^4+9l^2R^5-72r^2R^5-144rR^6))\big/\big((l^2-3r^2-12rR)^2\,(r^2+2rR-R^2)^2\big)\Big\}$$

$$\Big\{X44,\ X(6)\text{-LINE CONJUGATE OF }X(1),\ X91,\ \text{ISOGONAL CONJUGATE OF }X(47),$$
$$\frac{1}{(l^2-3r^2-12rR)^2\,(l^2r+r^3-l^2R+3r^2R+2rR^2+2R^3)^2}$$
$$r^2\,(l^{10}+3l^8r^2-6l^6r^4-26l^4r^6-27l^2r^8-9r^{10}-38l^8rR+64l^6r^3R-212l^4r^5R-198r^9R-16l^8R^2+472l^6r^2R^2-1228l^4r^4R^2+1824l^2r^6R^2-1836r^8R^2+516l^6rR^3-4132l^4r^3R^3+9708l^2r^5R^3-9324r^7R^3+88l^6R^4-5188l^4r^2R^4+22080l^2r^4R^4-28260r^6R^4-2344l^4rR^5+26736l^2r^3R^5-52488r^5R^5-192l^4R^6+16368l^2r^2R^6-59616r^4R^6+4080l^2rR^7-40464r^3R^7+144l^2R^8-14976r^2R^8-2304rR^9)\Big\}$$

$$\Big\{X44,\ X(6)\text{-LINE CONJUGATE OF }X(1),\ X92,\ \text{CEVAPOINT OF INCENTER AND CLAWSON POINT},\ \frac{1}{(l^2-3r^2-12rR)^2\,(l^2+r^2-4R^2)^2}$$
$$(l^{10}+3l^8r^2-6l^6r^4-26l^4r^6-27l^2r^8-9r^{10}-36l^8rR+56l^6r^3R-216l^4r^5R+24l^2r^7R-180r^9R-8l^8R^2+452l^6r^2R^2-1224l^4r^4R^2+1668l^2r^6R^2-1512r^8R^2+256l^6rR^3-3392l^4r^3R^3+7872l^2r^5R^3-6912r^7R^3+16l^6R^4-2704l^4r^2R^4+15312l^2r^4R^4-18576r^6R^4-448l^4rR^5+13056l^2r^3R^5-29376r^5R^5+3648l^2r^2R^6-25344r^4R^6-9216r^3R^7)\Big\}$$

{X44, X(6)-LINE CONJUGATE OF X(1), X93, ISOGONAL CONJUGATE OF X(49),

$$\left(l^{14}+5 l^{12} r^2+l^{10} r^4-35 l^8 r^6-85 l^6 r^8-89 l^4 r^{10}-45 l^2 r^{12}-9 r^{14}-36 l^{12} r R-104 l^{10} r^3 R+12 l^8 r^5 R+48 l^6 r^7 R-428 l^4 r^9 R-648 l^2 r^{11} R-252 r^{13} R-10 l^{12} R^2+336 l^{10} r^2 R^2+1210 l^8 r^4 R^2-1216 l^6 r^6 R^2+1434 l^4 r^8 R^2-3696 l^2 r^{10} R^2-3114 r^{12} R^2+296 l^{10} r R^3+352 l^8 r^3 R^3-11328 l^6 r^5 R^3+16592 l^4 r^7 R^3-10728 l^2 r^9 R^3-22320 r^{11} R^3+32 l^{10} R^4-1776 l^8 r^2 R^4-22800 l^6 r^4 R^4+62384 l^4 r^6 R^4-19152 l^2 r^8 R^4-102528 r^{10} R^4-696 l^8 r R^5-11112 l^6 r^3 R^5+125208 l^4 r^5 R^5-37560 l^2 r^7 R^5-314496 r^9 R^5-34 l^8 R^6-8 l^6 r^2 R^6+126692 l^4 r^4 R^6-98280 l^2 r^6 R^6-650034 r^8 R^6+312 l^6 r R^7+51008 l^4 r^3 R^7-173016 l^2 r^5 R^7-889632 r^7 R^7+7 l^6 R^8+7575 l^4 r^2 R^8-147567 l^2 r^4 R^8-766719 r^6 R^8+220 l^4 r R^9-47520 l^2 r^3 R^9-374004 r^5 R^9+4 l^4 R^{10}-5364 l^2 r^2 R^{10}-81324 r^4 R^{10}-96 l^2 r R^{11}-3744 r^3 R^{11}+576 r^2 R^{12}\right) \Big/ \left(\left(l^2-3 r^2-12 r R\right)^2 \left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-8 l^2 R^2+24 r^2 R^2+32 r R^3+13 R^4\right)^2\right)\}$$

{X44, X(6)-LINE CONJUGATE OF X(1), X94, ISOGONAL CONJUGATE OF X(50),

$$\left(l^{14}+5 l^{12} r^2+l^{10} r^4-35 l^8 r^6-85 l^6 r^8-89 l^4 r^{10}-45 l^2 r^{12}-9 r^{14}-36 l^{12} r R-104 l^{10} r^3 R+12 l^8 r^5 R+48 l^6 r^7 R-428 l^4 r^9 R-648 l^2 r^{11} R-252 r^{13} R-12 l^{12} R^2+324 l^{10} r^2 R^2+1228 l^8 r^4 R^2-1128 l^6 r^6 R^2+1500 l^4 r^8 R^2-3708 l^2 r^{10} R^2-3132 r^{12} R^2+336 l^{10} r R^3+464 l^8 r^3 R^3-11536 l^6 r^5 R^3+17104 l^4 r^7 R^3-10368 l^2 r^9 R^3-22752 r^{11} R^3+54 l^{10} R^4-1662 l^8 r^2 R^4-23076 l^6 r^4 R^4+61156 l^4 r^6 R^4-13266 l^2 r^8 R^4-107046 r^{10} R^4-1080 l^8 r R^5-13440 l^6 r^3 R^5+116208 l^4 r^5 R^5-4032 l^2 r^7 R^5-341496 r^9 R^5-108 l^8 R^6-720 l^6 r^2 R^6+119448 l^4 r^4 R^6-3600 l^2 r^6 R^6-751500 r^8 R^6+1296 l^6 r R^7+60336 l^4 r^3 R^7-37728 l^2 r^5 R^7-1137600 r^7 R^7+81 l^6 R^8+12177 l^4 r^2 R^8-68121 l^2 r^4 R^8-1158489 r^6 R^8-324 l^4 r R^9-48600 l^2 r^3 R^9-755244 r^5 R^9-12636 l^2 r^2 R^{10}-283824 r^4 R^{10}-46656 r^3 R^{11}\right) \Big/ \left(\left(l^2-3 r^2-12 r R\right)^2 \left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-12 l^2 R^2+28 r^2 R^2+48 r R^3+27 R^4\right)^2\right)\}$$

{X44, X(6)-LINE CONJUGATE OF X(1), X95, CEVAPOINT OF CENTROID AND CIRCUMCENTER,

$$\left(l^{14}+21 l^{12} r^2+49 l^{10} r^4-131 l^8 r^6-501 l^6 r^8-521 l^4 r^{10}-189 l^2 r^{12}-9 r^{14}-36 l^{12} r R-488 l^{10} r^3 R+844 l^8 r^5 R+4080 l^6 r^7 R-2540 l^4 r^9 R-3528 l^2 r^{11} R-252 r^{13} R-8 l^{12} R^2+308 l^{10} r^2 R^2+3304 l^8 r^4 R^2-19944 l^6 r^6 R^2+7256 l^4 r^8 R^2-27180 l^2 r^{10} R^2-3096 r^{12} R^2+256 l^{10} r R^3+896 l^8 r^3 R^3-16128 l^6 r^5 R^3+62464 l^4 r^7 R^3-110592 l^2 r^9 R^3-21888 r^{11} R^3+16 l^{10} R^4-2224 l^8 r^2 R^4-19008 l^6 r^4 R^4+121280 l^4 r^6 R^4-251856 l^2 r^8 R^4-98064 r^{10} R^4-448 l^8 r R^5-384 l^6 r^3 R^5+83200 l^4 r^5 R^5-314496 l^2 r^7 R^5-288576 r^9 R^5+2880 l^6 r^2 R^6+67456 l^4 r^4 R^6-209088 l^2 r^6 R^6-557568 r^8 R^6+7680 l^4 r^3 R^7-105984 l^2 r^5 R^7-681984 r^7 R^7-64512 l^2 r^4 R^8-479232 r^6 R^8-147456 r^5 R^9\right) \Big/ \left(\left(l^2-3 r^2-12 r R\right)^2 \left(l^4+18 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-4 l^2 R^2+20 r^2 R^2+16 r R^3\right)^2\right)\}$$

{X44, X(6)-LINE CONJUGATE OF X(1), X96, ISOGONAL CONJUGATE OF X(52),

$$-\left(\left(l^{14}-11 l^{12} r^2-47 l^{10} r^4+61 l^8 r^6+331 l^6 r^8+343 l^4 r^{10}+99 l^2 r^{12}-9 r^{14}-44 l^{12} r R+480 l^{10} r^3 R+316 l^8 r^5 R-2368 l^6 r^7 R+2348 l^4 r^9 R+2208 l^2 r^{11} R-252 r^{13} R-12 l^{12} R^2+900 l^{10} r^2 R^2-7188 l^8 r^4 R^2+8952 l^6 r^6 R^2-4548 l^4 r^8 R^2+21348 l^2 r^{10} R^2-3132 r^{12} R^2+480 l^{10} r R^3-11712 l^8 r^3 R^3+53792 l^6 r^5 R^3-82912 l^4 r^7 R^3+117120 l^2 r^9 R^3-22752 r^{11} R^3+56 l^{10} R^4-8120 l^8 r^2 R^4+98000 l^6 r^4 R^4-291984 l^4 r^6 R^4+401016 l^2 r^8 R^4-107064 r^{10} R^4-2016 l^8 r R^5+76672 l^6 r^3 R^5-478400 l^4 r^5 R^5+888960 l^2 r^7 R^5-341856 r^9 R^5-128 l^8 R^6+28512 l^6 r^2 R^6-421312 l^4 r^4 R^6+1283808 l^2 r^6 R^6-754560 r^8 R^6+4096 l^6 r R^7-199808 l^4 r^3 R^7+1189248 l^2 r^5 R^7-1152000 r^7 R^7+144 l^6 R^8-46832 l^4 r^2 R^8+680304 l^2 r^4 R^8-1199376 r^6 R^8-4032 l^4 r R^9+222720 l^2 r^3 R^9-826560 r^5 R^9-64 l^4 R^{10}+35136 l^2 r^2 R^{10}-357696 r^4 R^{10}+1536 l^2 r R^{11}-87552 r^3 R^{11}-9216 r^2 R^{12}\right) \Big/ \left(\left(l^2-3 r^2-12 r R\right)^2 \left(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2-4 R^4\right)^2\right)\right)\}$$

{X44, X(6)-LINE CONJUGATE OF X(1), X97, ISOGONAL CONJUGATE OF X(53),

$$\left(R\left(-64 l^8 r^5+384 l^6 r^7-64 l^4 r^9+16 l^{10} r^2 R-704 l^4 r^8 R+48 l^2 r^{10} R-8 l^{10} r R^2-504 l^8 r^3 R^2+2776 l^6 r^5 R^2-4104 l^4 r^7 R^2+816 l^2 r^9 R^2+l^{10} R^3+47 l^8 r^2 R^3+3574 l^6 r^4 R^3-13414 l^4 r^6 R^3+5577 l^2 r^8 R^3-9 r^{10} R^3+52 l^8 r R^4+3056 l^6 r^3 R^4-23664 l^4 r^5 R^4+19968 l^2 r^7 R^4-180 r^9 R^4-8 l^8 R^5-940 l^6 r^2 R^5-18680 l^4 r^4 R^5+40980 l^2 r^6 R^5-1512 r^8 R^5-64 l^6 r R^6-7264 l^4 r^3 R^6+50208 l^2 r^5 R^6-6912 r^7 R^6+16 l^6 R^7+2672 l^4 r^2 R^7+36432 l^2 r^4 R^7-18576 r^6 R^7-64 l^4 r R^8+11520 l^2 r^3 R^8-29376 r^5 R^8-2496 l^2 r^2 R^9-25344 r^4 R^9-9216 r^3 R^{10}\right)\right) \Big/ \left(\left(l^2-3 r^2-12 r R\right)^2 \left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-7 l^2 R^2+23 r^2 R^2+28 r R^3+12 R^4\right)^2\right)\}$$

$$\{X44,\ X(6)\text{-LINE CONJUGATE OF } X(1),\ X98,\ \text{TarryPoint},$$
$$-\left(\left(l^{10}+3 l^8 r^2-6 l^6 r^4-26 l^4 r^6-27 l^2 r^8-9 r^{10}-36 l^8 r R-8 l^6 r^3 R+168 l^4 r^5 R-168 l^2 r^7 R-180 r^9 R-4 l^8 R^2+444 l^6 r^2 R^2-736 l^4 r^4 R^2+348 l^2 r^6 R^2-1476 r^8 R^2+128 l^6 r R^3-2464 l^4 r^3 R^3+4320 l^2 r^5 R^3-6336 r^7 R^3-1408 l^4 r^2 R^4+9408 l^2 r^4 R^4-14976 r^6 R^4+6144 l^2 r^3 R^5-18432 r^5 R^5-9216 r^4 R^6\right)\Big/\left(\left(l^2-3 r^2-12 r R\right)^2\left(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)\right)\right)\}$$

$$\{X44,\ X(6)\text{-LINE CONJUGATE OF } X(1),\ X99,\ \text{STEINER POINT},$$
$$\left(l^{10}+3 l^8 r^2-6 l^6 r^4-26 l^4 r^6-27 l^2 r^8-9 r^{10}-28 l^8 r R-96 l^6 r^3 R-160 l^4 r^5 R-144 l^2 r^7 R-180 r^9 R+180 l^6 r^2 R^2+1192 l^4 r^4 R^2-108 l^2 r^6 R^2-1440 r^8 R^2+480 l^4 r^3 R^3-864 l^2 r^5 R^3-5760 r^7 R^3-4032 l^2 r^4 R^4-11520 r^6 R^4-9216 r^5 R^5\right)\Big/\left(\left(l^2-3 r^2-12 r R\right)^2\left(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)\right)\}$$

$$\{X44,\ X(6)\text{-LINE CONJUGATE OF } X(1),\ X100,\ \text{ANTICOMPLEMENT OF FEUERBACH POINT},$$
$$\frac{R\left(-l^6+7 l^4 r^2+33 l^2 r^4+9 r^6+28 l^4 r R-168 l^2 r^3 R+108 r^5 R-228 l^2 r^2 R^2+432 r^4 R^2+576 r^3 R^3\right)}{(2 r-R)\left(-l^2+3 r^2+12 r R\right)^2}\}$$

$$\{X45,\ X(9)\text{-BETH CONJUGATE OF } X(1),\ X46,\ X(4)\text{-CEVA CONJUGATE OF } X(1),$$
$$-\frac{4 r^2 R\left(5 l^4 r+3 l^2 r^3-4 l^4 R+51 l^2 r^2 R-15 l^2 r R^2+9 r^3 R^2-9 l^2 R^3+72 r^2 R^3+144 r R^4\right)}{(r-R)^2\left(l^2+3 r^2+12 r R\right)^2}\}$$

$$\{X45,\ X(9)\text{-BETH CONJUGATE OF } X(1),\ X47,\ X(110)\text{-BETH CONJUGATE OF } X(34),$$
$$\left(4 r^2 R\left(20 l^6 r-72 l^4 r^3+36 l^2 r^5+16 l^6 R-229 l^4 r^2 R+210 l^2 r^4 R-9 r^6 R-358 l^4 r R^2+828 l^2 r^3 R^2-126 r^5 R^2-48 l^4 R^3+1332 l^2 r^2 R^3-648 r^4 R^3+876 l^2 r R^4-1476 r^3 R^4+36 l^2 R^5-1440 r^2 R^5-576 r R^6\right)\right)\Big/\left(\left(l^2+3 r^2+12 r R\right)^2\left(l^2-3 r^2-6 r R-2 R^2\right)^2\right)\}$$

$$\{X45,\ X(9)\text{-BETH CONJUGATE OF } X(1),\ X48,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(63),$$
$$-\left(\left(4 l^4 R\left(12 l^4 r-88 l^2 r^3+28 r^5+l^4 R-98 l^2 r^2 R+237 r^4 R-68 l^2 r R^2+556 r^3 R^2-4 l^2 R^3+240 r^2 R^3+64 r R^4\right)\right)\Big/\left(\left(l^2+3 r^2+12 r R\right)^2\left(3 l^2-r^2-6 r R-8 R^2\right)^2\right)\right)\}$$

$$\{X45,\ X(9)\text{-BETH CONJUGATE OF } X(1),\ X49,$$
$$\text{CENTER OF SINE-TRIPLE-ANGLE CIRCLE},\ -\frac{1}{\left(l^2+3 r^2+12 r R\right)^2\left(2 l^2-2 r^2-8 r R-7 R^2\right)^2}$$
$$R\left(16 l^8 r-208 l^6 r^3+240 l^4 r^5-48 l^2 r^7+l^8 R-264 l^6 r^2 R+1334 l^4 r^4 R-504 l^2 r^6 R+9 r^8 R-120 l^6 r R^2+2672 l^4 r^3 R^2-2376 l^2 r^5 R^2+144 r^7 R^2-4 l^6 R^3+1212 l^4 r^2 R^3-5436 l^2 r^4 R^3+900 r^6 R^3+200 l^4 r R^4-5256 l^2 r^3 R^4+2736 r^5 R^4-l^4 R^5-954 l^2 r^2 R^5+4023 r^4 R^5-24 l^2 r R^6+2232 r^3 R^6-144 r^2 R^7\right)\}$$

$$\{X45,\ X(9)\text{-BETH CONJUGATE OF } X(1),\ X50,\ X(74)\text{-CEVA CONJUGATE OF } X(184),$$
$$\left(16 l^4 r^2 R\left(6 l^6 r-46 l^4 r^3+66 l^2 r^5-10 r^7+4 l^6 R-103 l^4 r^2 R+294 l^2 r^4 R-127 r^6 R-126 l^4 r R^2+816 l^2 r^3 R^2-642 r^5 R^2-24 l^4 R^3+960 l^2 r^2 R^3-1696 r^4 R^3+516 l^2 r R^4-2500 r^3 R^4+36 l^2 R^5-1824 r^2 R^5-576 r R^6\right)\right)\Big/\left(\left(l^2+3 r^2+12 r R\right)^2\left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-3 l^2 R^2+19 r^2 R^2+12 r R^3\right)^2\right)\}$$

$$\{X45,\ X(9)\text{-BETH CONJUGATE OF } X(1),\ X51,\ \text{CENTROID OF ORTHIC TRIANGLE},$$
$$-\frac{1}{36 R^2\left(l^2+3 r^2+12 r R\right)^2}\left(l^8+24 l^6 r^2+118 l^4 r^4+168 l^2 r^6+9 r^8-32 l^6 r R+272 l^4 r^3 R+1152 l^2 r^5 R+144 r^7 R-4 l^6 R^2-340 l^4 r^2 R^2+2580 l^2 r^4 R^2+900 r^6 R^2+112 l^4 r R^3+1440 l^2 r^3 R^3+2736 r^5 R^3-912 l^2 r^2 R^4+4032 r^4 R^4+2304 r^3 R^5\right)\}$$

$$\{X45,\ X(9)\text{-BETH CONJUGATE OF } X(1),\ X52,\ \text{ORTHOCENTER OF ORTHIC TRIANGLE},$$
$$\frac{1}{4 R^2\left(l^2+3 r^2+12 r R\right)^2}\left(l^8-8 l^6 r^2-74 l^4 r^4-120 l^2 r^6+9 r^8+32 l^6 r R-240 l^4 r^3 R-960 l^2 r^5 R+144 r^7 R-4 l^6 R^2+60 l^4 r^2 R^2-2364 l^2 r^4 R^2+900 r^6 R^2-112 l^4 r R^3-1728 l^2 r^3 R^3+2736 r^5 R^3+4 l^4 R^4-216 l^2 r^2 R^4+4068 r^4 R^4+96 l^2 r R^5+2592 r^3 R^5+576 r^2 R^6\right)\}$$

$$\left\{X45,\ X(9)\text{-BETH CONJUGATE OF }X(1),\ X53,\ \text{SYMMEDIAN POINT OF ORTHIC TRIANGLE},\ \left(16 l^4 r^2 (r+2R)^2 \left(l^6-3 l^4 r^2-17 l^2 r^4+3 r^6-24 l^4 r R+80 l^2 r^3 R+8 r^5 R-8 l^4 R^2+124 l^2 r^2 R^2-96 r^4 R^2+160 l^2 r R^3-400 r^3 R^3+16 l^2 R^4-384 r^2 R^4-256 r R^5\right)\right)\Big/\left(\left(l^2+3 r^2+12 r R\right)^2 \left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-4 l^2 R^2+20 r^2 R^2+16 r R^3\right)^2\right)\right\}$$

$$\left\{X45,\ X(9)\text{-BETH CONJUGATE OF }X(1),\ X54,\ \text{KosnitaPoint},\ -\frac{1}{\left(l^2+3 r^2+12 r R\right)^2 \left(2 l^2-2 r^2-8 r R-5 R^2\right)^2} R \left(16 l^8 r-208 l^6 r^3+240 l^4 r^5-48 l^2 r^7-256 l^6 r^2 R+1376 l^4 r^4 R-480 l^2 r^6 R-104 l^6 r R^2+2496 l^4 r^3 R^2-1944 l^2 r^5 R^2+l^6 R^3+833 l^4 r^2 R^3-3657 l^2 r^4 R^3-9 r^6 R^3+180 l^4 r R^4-2664 l^2 r^3 R^4-108 r^5 R^4-4 l^4 R^5-156 l^2 r^2 R^5-468 r^4 R^5-96 l^2 r R^6-864 r^3 R^6-576 r^2 R^7\right)\right\}$$

$$\left\{X45,\ X(9)\text{-BETH CONJUGATE OF }X(1),\ X55,\ \text{INSIMILICENTER(CIRCUMCIRCLE, INCIRCLE)},\ -\frac{r^2 R \left(8 l^4 r-24 l^2 r^3+5 l^4 R-66 l^2 r^2 R+9 r^4 R-132 l^2 r R^2+108 r^3 R^2-36 l^2 R^3+432 r^2 R^3+576 r R^4\right)}{(r+R)^2 \left(l^2+3 r^2+12 r R\right)^2}\right\}$$

$$\left\{X45,\ X(9)\text{-BETH CONJUGATE OF }X(1),\ X56,\ \text{EXSIMILICENTER(CIRCUMCIRCLE, INCIRCLE)},\ \frac{r^2 R \left(-8 l^4 r+24 l^2 r^3+7 l^4 R-78 l^2 r^2 R+27 r^4 R-12 l^2 r R^2+180 r^3 R^2+36 l^2 R^3+144 r^2 R^3-576 r R^4\right)}{(r-R)^2 \left(l^2+3 r^2+12 r R\right)^2}\right\}$$

$$\left\{X45,\ X(9)\text{-BETH CONJUGATE OF }X(1),\ X57,\ \text{ISOGONAL CONJUGATE OF }X(9),\ -\frac{4 r^2 R \left(5 l^4 r+3 l^2 r^3-7 l^4 R+69 l^2 r^2 R+9 r^4 R-24 l^2 r R^2+108 r^3 R^2-36 l^2 R^3+432 r^2 R^3+576 r R^4\right)}{(r-2R)^2 \left(l^2+3 r^2+12 r R\right)^2}\right\}$$

$$\left\{X45,\ X(9)\text{-BETH CONJUGATE OF }X(1),\ X58,\ \text{ISOGONAL CONJUGATE OF }X(10),\ \left(4 r^2 R \left(20 l^6 r-72 l^4 r^3+36 l^2 r^5+16 l^6 R-175 l^4 r^2 R+90 l^2 r^4 R+9 r^6 R-256 l^4 r R^2+216 l^2 r^3 R^2+72 r^5 R^2+144 r^4 R^3\right)\right)\Big/\left(\left(l^2-3 r^2-4 r R\right)^2 \left(l^2+3 r^2+12 r R\right)^2\right)\right\}$$

$$\left\{X45,\ X(9)\text{-BETH CONJUGATE OF }X(1),\ X59,\ \text{ISOGONAL CONJUGATE OF }X(11),\ \frac{1}{(2r-R)\left(l^2+3 r^2+12 r R\right)^2 \left(-l^2+r^2+5 r R+4 R^2\right)^2} r^2 R \left(-8 l^8+104 l^6 r^2-120 l^4 r^4+24 l^2 r^6+88 l^6 r R-784 l^4 r^3 R+312 l^2 r^5 R+11 l^6 R^2-1065 l^4 r^2 R^2+1413 l^2 r^4 R^2+9 r^6 R^2+660 l^4 r R^3+2112 l^2 r^3 R^3+180 r^5 R^3+224 l^4 R^4-1812 l^2 r^2 R^4+1440 r^4 R^4-6048 l^2 r R^5+5760 r^3 R^5-576 l^2 R^6+11520 r^2 R^6+9216 r R^7\right)\right\}$$

$$\left\{X45,\ X(9)\text{-BETH CONJUGATE OF }X(1),\ X60,\ \text{ISOGONAL CONJUGATE OF }X(12),\ -\frac{1}{\left(l^2+3 r^2+12 r R\right)^2 \left(2 l^2 r-2 r^3+l^2 R-7 r^2 R-7 r R^2\right)^2} r^2 R \left(16 l^8 r-208 l^6 r^3+240 l^4 r^5-48 l^2 r^7+8 l^8 R-440 l^6 r^2 R+1304 l^4 r^4 R-360 l^2 r^6 R-370 l^6 r R^2+3454 l^4 r^3 R^2-1470 l^2 r^5 R^2+18 r^7 R^2-81 l^6 R^3+3731 l^4 r^2 R^3-3231 l^2 r^4 R^3+189 r^6 R^3+1404 l^4 r R^4-3864 l^2 r^3 R^4+684 r^5 R^4-1764 l^2 r^2 R^5+1008 r^4 R^5+576 r^3 R^6\right)\right\}$$

$$\left\{X45,\ X(9)\text{-BETH CONJUGATE OF }X(1),\ X61,\ \text{ISOGONAL CONJUGATE OF }X(17),\ -\left(\left(12 l^2 r^2 R \left(4\sqrt{3}\, l^5-40 l^4 r-48\sqrt{3}\, l^3 r^2+24 l^2 r^3+12\sqrt{3}\, l r^4-49 l^4 R-48\sqrt{3}\, l^3 r R+390 l^2 r^2 R+96\sqrt{3}\, l r^3 R-9 r^4 R+744 l^2 r R^2+192\sqrt{3}\, l r^2 R^2-72 r^3 R^2-144 r^2 R^3\right)\right)\Big/\left(\left(3 l^2+2\sqrt{3}\, l r-3 r^2-12 r R\right)^2 \left(l^2+3 r^2+12 r R\right)^2\right)\right)\right\}$$

$$\left\{X45,\ X(9)\text{-BETH CONJUGATE OF } X(1),\ X62,\ \text{ISOGONAL CONJUGATE OF } X(18),\ \left(12 l^2 r^2 R \left(4\sqrt{3}\, l^5 + 40 l^4 r - 48\sqrt{3}\, l^3 r^2 - 24 l^2 r^3 + 12\sqrt{3}\, l r^4 + 49 l^4 R - 48\sqrt{3}\, l^3 r R - 390 l^2 r^2 R + 96\sqrt{3}\, l r^3 R + 9 r^4 R - 744 l^2 r R^2 + 192\sqrt{3}\, l r^2 R^2 + 72 r^3 R^2 + 144 r^2 R^3\right)\right) \Big/ \left(\left(3 l^2 - 2\sqrt{3}\, l r - 3 r^2 - 12 r R\right)^2 \left(l^2 + 3 r^2 + 12 r R\right)^2\right)\right\}$$

$$\left\{X45,\ X(9)\text{-BETH CONJUGATE OF } X(1),\ X63,\ \text{ISOGONAL CONJUGATE OF } X(19),\ -\left(\left(R\left(-2 l^6 r + 12 l^4 r^3 + 6 l^2 r^5 - l^6 R - 5 l^4 r^2 R + 105 l^2 r^4 R + 9 r^6 R + 4 l^4 r R^2 + 120 l^2 r^3 R^2 + 108 r^5 R^2 + 156 l^2 r^2 R^3 + 432 r^4 R^3 + 576 r^3 R^4\right)\right) \Big/ \left((r+R)^2 \left(l^2 + 3 r^2 + 12 r R\right)^2\right)\right)\right\}$$

$$\left\{X45,\ X(9)\text{-BETH CONJUGATE OF } X(1),\ X64,\ \text{ISOGONAL CONJUGATE OF } X(20),\ -\frac{1}{(l-r-2R)^2 (l+r+2R)^2 \left(l^2+3r^2+12rR\right)^2} 4R\left(4 l^8 r - 4 l^6 r^3 + 12 l^4 r^5 - 12 l^2 r^7 - 3 l^8 R - 16 l^6 r^2 R + 14 l^4 r^4 R - 48 l^2 r^6 R - 27 r^8 R - 80 l^6 r R^2 - 96 l^4 r^3 R^2 + 288 l^2 r^5 R^2 - 432 r^7 R^2 + 28 l^6 R^3 + 140 l^4 r^2 R^3 + 2004 l^2 r^4 R^3 - 2844 r^6 R^3 + 624 l^4 r R^4 + 3744 l^2 r^3 R^4 - 9936 r^5 R^4 - 64 l^4 R^5 + 1392 l^2 r^2 R^5 - 19584 r^4 R^5 - 1536 l^2 r R^6 - 20736 r^3 R^6 - 9216 r^2 R^7\right)\right\}$$

$$\left\{X45,\ X(9)\text{-BETH CONJUGATE OF } X(1),\ X65,\ \text{ORTHOCENTER OF THE INTOUCH TRIANGLE},\ -\frac{1}{R\left(l^2+3r^2+12rR\right)^2} r^2\left(2 l^4 r + 12 l^2 r^3 + 18 r^5 - 7 l^4 R + 42 l^2 r^2 R + 189 r^4 R - 60 l^2 r R^2 + 684 r^3 R^2 - 36 l^2 R^3 + 1008 r^2 R^3 + 576 r R^4\right)\right\}$$

$$\left\{X45,\ X(9)\text{-BETH CONJUGATE OF } X(1),\ X66,\ \text{ISOGONAL CONJUGATE OF } X(22),\ -\frac{1}{(l-r-2R)^2 (l+r+2R)^2 \left(l^2-r^2-4rR\right)^2 \left(l^2+3r^2+12rR\right)^2} \left(-16 l^{10} r^4 + 96 l^6 r^8 - 128 l^4 r^{10} + 48 l^2 r^{12} + 8 l^{12} r R - 104 l^{10} r^3 R + 144 l^8 r^5 R + 880 l^6 r^7 R - 1816 l^4 r^9 R + 888 l^2 r^{11} R + l^{12} R^2 - 118 l^{10} r^2 R^2 + 823 l^8 r^4 R^2 + 2508 l^6 r^6 R^2 - 10081 l^4 r^8 R^2 + 6858 l^2 r^{10} R^2 + 9 r^{12} R^2 - 56 l^{10} r R^3 + 1240 l^8 r^3 R^3 + 1520 l^6 r^5 R^3 - 27312 l^4 r^7 R^3 + 28488 l^2 r^9 R^3 + 216 r^{11} R^3 - 4 l^{10} R^4 + 532 l^8 r^2 R^4 - 3064 l^6 r^4 R^4 - 35752 l^4 r^6 R^4 + 67836 l^2 r^8 R^4 + 2196 r^{10} R^4 + 80 l^8 r R^5 - 3456 l^6 r^3 R^5 - 16416 l^4 r^5 R^5 + 89472 l^2 r^7 R^5 + 12240 r^9 R^5 - 464 l^6 r^2 R^6 + 4768 l^4 r^4 R^6 + 53424 l^2 r^6 R^6 + 40320 r^8 R^6 + 3712 l^4 r^3 R^7 + 384 l^2 r^5 R^7 + 78336 r^7 R^7 - 8448 l^2 r^4 R^8 + 82944 r^6 R^8 + 36864 r^5 R^9\right)\right\}$$

$$\left\{X45,\ X(9)\text{-BETH CONJUGATE OF } X(1),\ X67,\ \text{ISOGONAL CONJUGATE OF } X(23),\ \frac{1}{\left(l^2-r^2-4rR\right)^2 \left(l^2+3r^2+12rR\right)^2 \left(2 l^2-2r^2-8rR-9R^2\right)} \left(l^{12} + 6 l^{10} r^2 + 39 l^8 r^4 + 20 l^6 r^6 - 177 l^4 r^8 + 102 l^2 r^{10} + 9 r^{12} - 16 l^{10} r R + 168 l^8 r^3 R - 48 l^6 r^5 R - 1664 l^4 r^7 R + 1344 l^2 r^9 R + 216 r^{11} R - 4 l^{10} R^2 - 12 l^8 r^2 R^2 - 792 l^6 r^4 R^2 - 5000 l^4 r^6 R^2 + 6684 l^2 r^8 R^2 + 2196 r^{10} R^2 + 48 l^8 r R^3 - 1216 l^6 r^3 R^3 - 4608 l^4 r^5 R^3 + 15552 l^2 r^7 R^3 + 12240 r^9 R^3 + 48 l^6 r^2 R^4 + 1120 l^4 r^4 R^4 + 17328 l^2 r^6 R^4 + 40320 r^8 R^4 + 2944 l^4 r^3 R^5 + 9600 l^2 r^5 R^5 + 78336 r^7 R^5 + 3840 l^2 r^4 R^6 + 82944 r^6 R^6 + 36864 r^5 R^7\right)\right\}$$

$$\left\{X45,\ X(9)\text{-BETH CONJUGATE OF } X(1),\ X68,\ \text{PRASOLOV POINT},\ -\frac{1}{(l-r-2R)^2 (l+r+2R)^2 \left(l^2+3r^2+12rR\right)^2} \left(-16 l^6 r^4 - 32 l^4 r^6 + 48 l^2 r^8 + 8 l^8 r R - 88 l^6 r^3 R - 168 l^4 r^5 R + 504 l^2 r^7 R - l^8 R^2 - 68 l^6 r^2 R^2 - 94 l^4 r^4 R^2 + 2028 l^2 r^6 R^2 - 9 r^8 R^2 - 64 l^6 r R^3 + 496 l^4 r^3 R^3 + 3936 l^2 r^5 R^3 - 144 r^7 R^3 + 4 l^6 R^4 + 404 l^4 r^2 R^4 + 3564 l^2 r^4 R^4 - 900 r^6 R^4 + 144 l^4 r R^5 + 672 l^2 r^3 R^5 - 2736 r^5 R^5 - 4 l^4 R^6 - 408 l^2 r^2 R^6 - 4068 r^4 R^6 - 96 l^2 r R^7 - 2592 r^3 R^7 - 576 r^2 R^8\right)\right\}$$

$$\{X45,\ X(9)\text{-BETH CONJUGATE OF } X(1),\ X69,\ \text{SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},$$
$$\left(l^{10}+7 l^8 r^2+30 l^6 r^4+34 l^4 r^6-63 l^2 r^8-9 r^{10}-4 l^8 r R+96 l^6 r^3 R+152 l^4 r^5 R-576 l^2 r^7 R-180 r^9 R-108 l^6 r^2 R^2-200 l^4 r^4 R^2-1836 l^2 r^6 R^2-1440 r^8 R^2-1056 l^4 r^3 R^3-3168 l^2 r^5 R^3-5760 r^7 R^3-4032 l^2 r^4 R^4-11520 r^6 R^4-9216 r^5 R^5\right)\Big/\left(\left(l^2-r^2-4 r R\right)^2\left(l^2+3 r^2+12 r R\right)^2\right)\}$$

$$\{X45,\ X(9)\text{-BETH CONJUGATE OF } X(1),\ X70,\ \text{ISOGONAL CONJUGATE OF } X(26),$$
$$-\Big(\Big(-16 l^{10} r^4+96 l^6 r^8-128 l^4 r^{10}+48 l^2 r^{12}+8 l^{12} r R-104 l^{10} r^3 R+144 l^8 r^5 R+880 l^6 r^7 R-1816 l^4 r^9 R+888 l^2 r^{11} R-124 l^{10} r^2 R^2+880 l^8 r^4 R^2+2584 l^6 r^6 R^2-10384 l^4 r^8 R^2+7044 l^2 r^{10} R^2-88 l^{10} r R^3+1648 l^8 r^3 R^3+1664 l^6 r^5 R^3-30448 l^4 r^7 R^3+31320 l^2 r^9 R^3+l^{10} R^4+1087 l^8 r^2 R^4-4314 l^6 r^4 R^4-47446 l^4 r^6 R^4+85497 l^2 r^8 R^4-9 r^{10} R^4+340 l^8 r R^5-7176 l^6 r^3 R^5-34400 l^4 r^5 R^5+147144 l^2 r^7 R^5-180 r^9 R^5-6 l^8 R^6-3248 l^6 r^2 R^6-2340 l^4 r^4 R^6+157104 l^2 r^6 R^6-1494 r^8 R^6-568 l^6 r R^7+9952 l^4 r^3 R^7+97272 l^2 r^5 R^7-6624 r^7 R^7+9 l^6 R^8+3769 l^4 r^2 R^8+28671 l^2 r^4 R^8-16785 r^6 R^8+404 l^4 r R^9+600 l^2 r^3 R^9-24012 r^5 R^9-4 l^4 R^{10}-1020 l^2 r^2 R^{10}-17748 r^4 R^{10}-96 l^2 r R^{11}-5472 r^3 R^{11}-576 r^2 R^{12}\Big)\Big/\left(\left(l^2+3 r^2+12 r R\right)^2\left(l^4-2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-6 l^2 R^2+22 r^2 R^2+24 r R^3+7 R^4\right)^2\right)\Big)\}$$

$$\{X45,\ X(9)\text{-BETH CONJUGATE OF } X(1),\ X71,\ \text{ISOGONAL CONJUGATE OF } X(27),$$
$$-\frac{4 l^4 R\left(4 l^4 r+8 l^2 r^3+4 r^5-3 l^4 R+46 l^2 r^2 R+33 r^4 R-20 l^2 r R^2+76 r^3 R^2-4 l^2 R^3+48 r^2 R^3+64 r R^4\right)}{\left(l^2+3 r^2+12 r R\right)^2\left(l^2+r^2+6 r R+8 R^2\right)^2}$$
$$\}$$

$$\{X45,\ X(9)\text{-BETH CONJUGATE OF } X(1),\ X72,$$
$$\text{ISOGONAL CONJUGATE OF } X(28),\ -\frac{\left(l^2+3 r^2+6 r R\right)^2\left(-l^2 r+r^3-l^2 R+8 r^2 R+16 r R^2\right)}{R\left(l^2+3 r^2+12 r R\right)^2}\}$$

$$\{X45,\ X(9)\text{-BETH CONJUGATE OF } X(1),\ X73,\ \text{CROSSPOINT OF INCENTER AND CIRCUMCENTER},$$
$$\left(4 r^2 R\left(12 l^6 r+24 l^4 r^3+12 l^2 r^5+8 l^6 R-57 l^4 r^2 R-54 l^2 r^4 R+27 r^6 R-308 l^4 r R^2-132 l^2 r^3 R^2+288 r^5 R^2-68 l^4 R^3+828 l^2 r^2 R^3+972 r^4 R^3+1632 l^2 r R^4+720 r^3 R^4+144 l^2 R^5-1728 r^2 R^5-2304 r R^6\right)\right)\Big/\left(\left(l^2+3 r^2+12 r R\right)^2\left(l^2+r^2-2 r R-4 R^2\right)^2\right)\}$$

$$\{X45,\ X(9)\text{-BETH CONJUGATE OF } X(1),\ X74,\ \text{ISOGONAL CONJUGATE OF EULER INFINITY POINT},$$
$$-\Big(\Big(R\left(24 l^6 r-32 l^4 r^3+72 l^2 r^5-9 l^6 R-17 l^4 r^2 R+153 l^2 r^4 R+81 r^6 R-276 l^4 r R^2-504 l^2 r^3 R^2+972 r^5 R^2+36 l^4 R^3-612 l^2 r^2 R^3+4212 r^4 R^3+864 l^2 r R^4+7776 r^3 R^4+5184 r^2 R^5\right)\Big)\Big/\left(\left(l^2+3 r^2+12 r R\right)^2\left(2 l^2-2 r^2-8 r R-9 R^2\right)\right)\Big)\}$$

$$\{X45,\ X(9)\text{-BETH CONJUGATE OF } X(1),\ X75,\ \text{ISOTOMIC CONJUGATE OF INCENTER},$$
$$\left(l^{10}+3 l^8 r^2-6 l^6 r^4-26 l^4 r^6-27 l^2 r^8-9 r^{10}-4 l^8 r R+56 l^4 r^5 R-180 r^9 R-204 l^6 r^2 R^2+616 l^4 r^4 R^2+1620 l^2 r^6 R^2-1440 r^8 R^2-96 l^4 r^3 R^3+6048 l^2 r^5 R^3-5760 r^7 R^3+5184 l^2 r^4 R^4-11520 r^6 R^4-9216 r^5 R^5\right)\Big/\left(\left(l^2+r^2+4 r R\right)^2\left(l^2+3 r^2+12 r R\right)^2\right)\}$$

$$\{X45,\ X(9)\text{-BETH CONJUGATE OF } X(1),\ X76,\ \text{3rd BROCARD POINT},$$
$$\left(l^{14}+5 l^{12} r^2+l^{10} r^4-35 l^8 r^6-85 l^6 r^8-89 l^4 r^{10}-45 l^2 r^{12}-9 r^{14}-12 l^{12} r R-8 l^{10} r^3 R+156 l^8 r^5 R+144 l^6 r^7 R-404 l^4 r^9 R-648 l^2 r^{11} R-252 r^{13} R-60 l^{10} r^2 R^2-128 l^8 r^4 R^2+792 l^6 r^6 R^2+1776 l^4 r^8 R^2-3132 l^2 r^{10} R^2-3024 r^{12} R^2-256 l^8 r^3 R^3+3008 l^6 r^5 R^3+11200 l^4 r^7 R^3-4032 l^2 r^9 R^3-20160 r^{11} R^3+2688 l^6 r^4 R^4+14848 l^4 r^6 R^4+10368 l^2 r^8 R^4-80640 r^{10} R^4+6144 l^4 r^5 R^5+27648 l^2 r^7 R^5-193536 r^9 R^5+9216 l^2 r^6 R^6-258048 r^8 R^6-147456 r^7 R^7\right)\Big/\left(\left(l^2+3 r^2+12 r R\right)^2\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)^2\right)\}$$

$$\{X45,\ X(9)\text{-BETH CONJUGATE OF } X(1),\ X77,\ \text{ISOGONAL CONJUGATE OF } X(33),$$
$$\left(r^2 R\left(42 l^6 r-12 l^4 r^3+18 l^2 r^5+21 l^6 R-299 l^4 r^2 R+243 l^2 r^4 R-9 r^6 R-1060 l^4 r R^2+1440 l^2 r^3 R^2-180 r^5 R^2-224 l^4 R^3+4500 l^2 r^2 R^3-1440 r^4 R^3+6048 l^2 r R^4-5760 r^3 R^4+576 l^2 R^5-11520 r^2 R^5-9216 r R^6\right)\right)\Big/\left(\left(l^2+3 r^2+12 r R\right)^2\left(l^2-r R-4 R^2\right)^2\right)\}$$

$$\{X45,\ X(9)\text{-BETH CONJUGATE OF } X(1),\ X78,\ \text{ISOGONAL CONJUGATE OF } X(34),$$
$$-\Big(\Big(R\left(-6 l^4 r^3-60 l^2 r^5+18 r^7-l^6 R-17 l^4 r^2 R-63 l^2 r^4 R+189 r^6 R+4 l^4 r R^2+72 l^2 r^3 R^2+684 r^5 R^2+156 l^2 r^2 R^3+1008 r^4 R^3+576 r^3 R^4\right)\Big)\Big/\left((r-R)^2\left(l^2+3 r^2+12 r R\right)^2\right)\Big)\}$$

$$\{X45,\ X(9)\text{-BETH CONJUGATE OF } X(1),\ X79,\ \text{ISOGONAL CONJUGATE OF } X(35),$$
$$-\left(\left(4 r^2 \left(2 l^6+16 l^4 r^2+30 l^2 r^4+43 l^4 r R+132 l^2 r^3 R+9 r^5 R-18 l^4 R^2-24 l^2 r^2 R^2+126 r^4 R^2-477 l^2 r R^3+657 r^3 R^3-81 l^2 R^4+1512 r^2 R^4+1296 r R^5\right)\right)\Big/\left((2 r+3 R)^2 \left(l^2+3 r^2+12 r R\right)^2\right)\right)\}$$

$$\{X45,\ X(9)\text{-BETH CONJUGATE OF } X(1),\ X80,\ \text{REFLECTION OF INCENTER IN FEUERBACH POINT},$$
$$\frac{4 r^2 \left(-l^4 r+9 r^5-4 l^4 R+18 l^2 r^2 R+90 r^4 R+9 l^2 r R^2+297 r^3 R^2-9 l^2 R^3+360 r^2 R^3+144 r R^4\right)}{(2 r-R)\left(l^2+3 r^2+12 r R\right)^2}\}$$

$$\{X45,\ X(9)\text{-BETH CONJUGATE OF } X(1),\ X81,\ \text{CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},$$
$$\left(r^2 R \left(56 l^6 r-96 l^4 r^3-24 l^2 r^5+49 l^6 R-343 l^4 r^2 R-321 l^2 r^4 R-9 r^6 R-700 l^4 r R^2-984 l^2 r^3 R^2-108 r^5 R^2-1308 l^2 r^2 R^3-432 r^4 R^3-576 r^3 R^4\right)\right)\Big/\left(\left(l^2-r^2-r R\right)^2 \left(l^2+3 r^2+12 r R\right)^2\right)\}$$

$$\{X45,\ X(9)\text{-BETH CONJUGATE OF } X(1),\ X82,\ \text{ISOGONAL CONJUGATE OF } X(38),$$
$$\left(r^2 R \left(70 l^{10} r-482 l^8 r^3+804 l^6 r^5-524 l^4 r^7+150 l^2 r^9-18 r^{11}+49 l^{10} R-1597 l^8 r^2 R+5706 l^6 r^4 R-6186 l^4 r^6 R+2661 l^2 r^8 R-441 r^{10} R-1484 l^8 r R^2+15\,224 l^6 r^3 R^2-29\,536 l^4 r^5 R^2+19\,656 l^2 r^7 R^2-4500 r^9 R^2+14\,708 l^6 r^2 R^3-68\,536 l^4 r^4 R^3+75\,444 l^2 r^6 R^3-24\,480 r^8 R^3-63\,328 l^4 r^3 R^4+149\,280 l^2 r^5 R^4-74\,880 r^7 R^4+120\,384 l^2 r^4 R^5-122\,112 r^6 R^5-82\,944 r^5 R^6\right)\right)\Big/\left(\left(l^2+3 r^2+12 r R\right)^2 \left(l^4-4 l^2 r^2+3 r^4-9 l^2 r R+19 r^3 R+28 r^2 R^2\right)^2\right)\}$$

$$\{X45,\ X(9)\text{-BETH CONJUGATE OF } X(1),\ X83,\ \text{CEVAPOINT OF CENTROID AND SYMMEDIAN POINT},$$
$$\left(l^{14}-27 l^{12} r^2-159 l^{10} r^4-227 l^8 r^6-21 l^6 r^8+135 l^4 r^{10}+51 l^2 r^{12}-9 r^{14}-76 l^{12} r R+1272 l^{10} r^3 R-2276 l^8 r^5 R+2704 l^6 r^7 R+44 l^4 r^9 R+1656 l^2 r^{11} R-252 r^{13} R+2116 l^{10} r^2 R^2-17\,920 l^8 r^4 R^2+31\,896 l^6 r^6 R^2-20\,368 l^4 r^8 R^2+19\,908 l^2 r^{10} R^2-3024 r^{12} R^2-26\,368 l^8 r^3 R^3+126\,912 l^6 r^5 R^3-154\,176 l^4 r^7 R^3+118\,848 l^2 r^9 R^3-20\,160 r^{11} R^3+148\,096 l^6 r^4 R^4-417\,280 l^4 r^6 R^4+379\,008 l^2 r^8 R^4-80\,640 r^{10} R^4-378\,880 l^4 r^5 R^5+617\,472 l^2 r^7 R^5-193\,536 r^9 R^5+402\,432 l^2 r^6 R^6-258\,048 r^8 R^6-147\,456 r^7 R^7\right)\Big/\left(\left(l^2+3 r^2+12 r R\right)^2 \left(5 l^4-6 l^2 r^2+5 r^4-40 l^2 r R+40 r^3 R+80 r^2 R^2\right)^2\right)\}$$

$$\{X45,\ X(9)\text{-BETH CONJUGATE OF } X(1),\ X84,\ \text{ISOGONAL CONJUGATE OF } X(40),$$
$$-\frac{1}{r^2 \left(l^2+3 r^2+12 r R\right)^2} 4 R \left(-l^6 r+l^4 r^3+l^6 R-16 l^4 r^2 R+6 l^2 r^4 R+24 l^4 r R^2-48 l^2 r^3 R^2-4 l^4 R^3+120 l^2 r^2 R^3-36 r^4 R^3-96 l^2 r R^4-288 r^3 R^4-576 r^2 R^5\right)\}$$

$$\{X45,\ X(9)\text{-BETH CONJUGATE OF } X(1),\ X85,$$
$$\text{ISOTOMIC CONJUGATE OF } X(9),\ \frac{1}{\left(l^2+3 r^2+12 r R\right)^2 \left(l^2+r^2+8 r R+16 R^2\right)^2}$$
$$\left(l^{10}+3 l^8 r^2-6 l^6 r^4-26 l^4 r^6-27 l^2 r^8-9 r^{10}-12 l^8 r R-96 l^6 r^3 R-248 l^4 r^5 R-288 l^2 r^7 R-252 r^9 R-444 l^6 r^2 R^2-552 l^4 r^4 R^2-252 l^2 r^6 R^2-3024 r^8 R^2-192 l^6 r R^3+832 l^4 r^3 R^3+7488 l^2 r^5 R^3-20\,160 r^7 R^3+2944 l^4 r^2 R^4+33\,408 l^2 r^4 R^4-80\,640 r^6 R^4+46\,080 l^2 r^3 R^5-193\,536 r^5 R^5+9216 l^2 r^2 R^6-258\,048 r^4 R^6-147\,456 r^3 R^7\right)\}$$

$$\{X45,\ X(9)\text{-BETH CONJUGATE OF } X(1),\ X86,\ \text{CEVAPOINT OF INCENTER AND CENTROID},$$
$$\left(l^{10}-21 l^8 r^2-126 l^6 r^4-194 l^4 r^6-99 l^2 r^8-9 r^{10}-52 l^8 r R+576 l^6 r^3 R-856 l^4 r^5 R-1152 l^2 r^7 R-180 r^9 R+852 l^6 r^2 R^2-1208 l^4 r^4 R^2-5292 l^2 r^6 R^2-1440 r^8 R^2-3552 l^4 r^3 R^3-12\,384 l^2 r^5 R^3-5760 r^7 R^3-13\,248 l^2 r^4 R^4-11\,520 r^6 R^4-9216 r^5 R^5\right)\Big/\left(\left(5 l^2+r^2+4 r R\right)^2 \left(l^2+3 r^2+12 r R\right)^2\right)\}$$

$$\{X45,\ X(9)\text{-BETH CONJUGATE OF } X(1),\ X87,\ X(2)\text{-CROSS CONJUGATE OF } X(1),$$
$$\left(4 r^2 R \left(15 l^{10} r+69 l^8 r^3+126 l^6 r^5+114 l^4 r^7+51 l^2 r^9+9 r^{11}+25 l^{10} R-448 l^8 r^2 R-866 l^6 r^4 R-108 l^4 r^6 R+465 l^2 r^8 R+180 r^{10} R-840 l^8 r R^2+4264 l^6 r^3 R^2-2872 l^4 r^5 R^2+1656 l^2 r^7 R^2+1440 r^9 R^2+8976 l^6 r^2 R^3-10\,208 l^4 r^4 R^3+3984 l^2 r^6 R^3+5760 r^8 R^3-30\,976 l^4 r^3 R^4+6144 l^2 r^5 R^4+11\,520 r^7 R^4+9216 r^6 R^5\right)\right)\Big/\left(\left(l^2+3 r^2+12 r R\right)^2 \left(l^4+2 l^2 r^2+r^4-20 l^2 r R+12 r^3 R+32 r^2 R^2\right)^2\right)\}$$

$$\left\{\text{X45, X(9)-BETH CONJUGATE OF X(1), X88, ISOGONAL CONJUGATE OF X(44)},\ \frac{81 r^2 R^2 \left(l^6-7 l^4 r^2-33 l^2 r^4-9 r^6-28 l^4 r R+168 l^2 r^3 R-108 r^5 R+228 l^2 r^2 R^2-432 r^4 R^2-576 r^3 R^3\right)}{\left(l^2+3 r^2-15 r R\right)^2 \left(l^2+3 r^2+12 r R\right)^2}\right\}$$

$$\left\{\text{X45, X(9)-BETH CONJUGATE OF X(1), X89, ISOGONAL CONJUGATE OF X(45)},\ \left(9 r^2 R \left(40 l^6 r-160 l^4 r^3-72 l^2 r^5+25 l^6 R-47 l^4 r^2 R-1161 l^2 r^4 R-81 r^6 R-220 l^4 r R^2-1944 l^2 r^3 R^2-972 r^5 R^2-2556 l^2 r^2 R^3-3888 r^4 R^3-5184 r^3 R^4\right)\right)\Big/\left(\left(2 l^2-6 r^2+3 r R\right)^2 \left(l^2+3 r^2+12 r R\right)^2\right)\right\}$$

$$\left\{\text{X45, X(9)-BETH CONJUGATE OF X(1), X90, X(3)-CROSS CONJUGATE OF X(1)},\ \left(4 r^2 R \left(l^6 r-l^4 r^3+4 l^4 r^2 R-3 l^2 r^4 R-6 l^4 r R^2-6 l^2 r^3 R^2+4 l^4 R^3-66 l^2 r^2 R^3-27 l^2 r R^4-9 r^3 R^4+9 l^2 R^5-72 r^2 R^5-144 r R^6\right)\right)\Big/\left(\left(l^2+3 r^2+12 r R\right)^2 \left(r^2+2 r R-R^2\right)^2\right)\right\}$$

$$\left\{\text{X45, X(9)-BETH CONJUGATE OF X(1), X91, ISOGONAL CONJUGATE OF X(47)},\ \frac{1}{\left(l^2+3 r^2+12 r R\right)^2 \left(l^2 r+r^3-l^2 R+3 r^2 R+2 r R^2+2 R^3\right)^2} r^2 \left(l^{10}+3 l^8 r^2-6 l^6 r^4-26 l^4 r^6-27 l^2 r^8-9 r^{10}-2 l^8 r R+4 l^6 r^3 R+40 l^4 r^5 R-36 l^2 r^7 R-198 r^9 R+8 l^8 R^2-248 l^6 r^2 R^2+428 l^4 r^4 R^2+1344 l^2 r^6 R^2-1836 r^8 R^2-156 l^6 r R^3-196 l^4 r^3 R^3+7212 l^2 r^5 R^3-9324 r^7 R^3-8 l^6 R^4-580 l^4 r^2 R^4+15\,648 l^2 r^4 R^4-28\,260 r^6 R^4-376 l^4 r R^5+18\,048 l^2 r^3 R^5-52\,488 r^5 R^5-96 l^4 R^6+10\,416 l^2 r^2 R^6-59\,616 r^4 R^6+2544 l^2 r R^7-40\,464 r^3 R^7+144 l^2 R^8-14\,976 r^2 R^8-2304 r R^9\right)\right\}$$

$$\left\{\text{X45, X(9)-BETH CONJUGATE OF X(1), X92, CEVAPOINT OF INCENTER AND CLAWSON POINT},\ \frac{1}{\left(l^2+3 r^2+12 r R\right)^2 \left(l^2+r^2-4 R^2\right)^2} \left(l^{10}+3 l^8 r^2-6 l^6 r^4-26 l^4 r^6-27 l^2 r^8-9 r^{10}-12 l^8 r R-40 l^6 r^3 R-24 l^2 r^7 R-180 r^9 R-8 l^8 R^2-220 l^6 r^2 R^2+312 l^4 r^4 R^2+996 l^2 r^6 R^2-1512 r^8 R^2+64 l^6 r R^3+832 l^4 r^3 R^3+4224 l^2 r^5 R^3-6912 r^7 R^3+16 l^6 R^4+1520 l^4 r^2 R^4+5712 l^2 r^4 R^4-18\,576 r^6 R^4-64 l^4 r R^5+768 l^2 r^3 R^5-29\,376 r^5 R^5-2496 l^2 r^2 R^6-25\,344 r^4 R^6-9216 r^3 R^7\right)\right\}$$

$$\left\{\text{X45, X(9)-BETH CONJUGATE OF X(1), X93, ISOGONAL CONJUGATE OF X(49)},\ \left(l^{14}+5 l^{12} r^2+l^{10} r^4-35 l^8 r^6-85 l^6 r^8-89 l^4 r^{10}-45 l^2 r^{12}-9 r^{14}-12 l^{12} r R-8 l^{10} r^3 R+156 l^8 r^5 R+144 l^6 r^7 R-404 l^4 r^9 R-648 l^2 r^{11} R-252 r^{13} R-10 l^{12} R^2-96 l^{10} r^2 R^2-230 l^8 r^4 R^2+320 l^6 r^6 R^2+954 l^4 r^8 R^2-3648 l^2 r^{10} R^2-3114 r^{12} R^2+128 l^{10} r R^3-752 l^8 r^3 R^3+192 l^6 r^5 R^3+8480 l^4 r^7 R^3-9792 l^2 r^9 R^3-22\,320 r^{11} R^3+32 l^{10} R^4+312 l^8 r^2 R^4+5208 l^6 r^4 R^4+19\,208 l^4 r^6 R^4-11\,448 l^2 r^8 R^4-102\,528 r^{10} R^4-528 l^8 r R^5+8592 l^6 r^3 R^5+15\,888 l^4 r^5 R^5-2832 l^2 r^7 R^5-314\,496 r^9 R^5-34 l^8 R^6+1000 l^6 r^2 R^6-10\,588 l^4 r^4 R^6-5400 l^2 r^6 R^6-650\,034 r^8 R^6+1008 l^6 r R^7-24\,640 l^4 r^3 R^7-24\,336 l^2 r^5 R^7-889\,632 r^7 R^7+7 l^6 R^8-5025 l^4 r^2 R^8-11\,895 l^2 r^4 R^8-766\,719 r^6 R^8-692 l^4 r R^9+14\,184 l^2 r^3 R^9-374\,004 r^5 R^9+4 l^4 R^{10}+4572 l^2 r^2 R^{10}-81\,324 r^4 R^{10}+96 l^2 r R^{11}-3744 r^3 R^{11}+576 r^2 R^{12}\right)\Big/\left(\left(l^2+3 r^2+12 r R\right)^2 \left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-8 l^2 R^2+24 r^2 R^2+32 r R^3+13 R^4\right)^2\right)\right\}$$

$$\left\{\text{X45, X(9)-BETH CONJUGATE OF X(1), X94, ISOGONAL CONJUGATE OF X(50)},\ \left(l^{14}+5 l^{12} r^2+l^{10} r^4-35 l^8 r^6-85 l^6 r^8-89 l^4 r^{10}-45 l^2 r^{12}-9 r^{14}-12 l^{12} r R-8 l^{10} r^3 R+156 l^8 r^5 R+144 l^6 r^7 R-404 l^4 r^9 R-648 l^2 r^{11} R-252 r^{13} R-12 l^{12} R^2-84 l^{10} r^2 R^2-116 l^8 r^4 R^2+552 l^6 r^6 R^2+1116 l^4 r^8 R^2-3636 l^2 r^{10} R^2-3132 r^{12} R^2+192 l^{10} r R^3-832 l^8 r^3 R^3+32 l^6 r^5 R^3+9760 l^4 r^7 R^3-8928 l^2 r^9 R^3-22\,752 r^{11} R^3+54 l^{10} R^4-294 l^8 r^2 R^4+4116 l^6 r^4 R^4+19\,276 l^4 r^6 R^4-1098 l^2 r^8 R^4-107\,046 r^{10} R^4-1080 l^8 r R^5+9600 l^6 r^3 R^5+2928 l^4 r^5 R^5+52\,416 l^2 r^7 R^5-341\,496 r^9 R^5-108 l^8 R^6+5544 l^6 r^2 R^6-37\,080 l^4 r^4 R^6+152\,712 l^2 r^6 R^6-751\,500 r^8 R^6+2592 l^6 r R^7-46\,368 l^4 r^3 R^7+225\,216 l^2 r^5 R^7-1\,137\,600 r^7 R^7+81 l^6 R^8-18\,279 l^4 r^2 R^8+193\,023 l^2 r^4 R^8-1\,158\,489 r^6 R^8-2268 l^4 r R^9+91\,368 l^2 r^3 R^9-755\,244 r^5 R^9+18\,468 l^2 r^2 R^{10}-283\,824 r^4 R^{10}-46\,656 r^3 R^{11}\right)\Big/\left(\left(l^2+3 r^2+12 r R\right)^2 \left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-12 l^2 R^2+28 r^2 R^2+48 r R^3+27 R^4\right)^2\right)\right\}$$

{X45, X(9)-BETH CONJUGATE OF X(1), X95, CEVAPOINT OF CENTROID AND CIRCUMCENTER,

$$\left(l^{14}+21 l^{12} r^2+49 l^{10} r^4-131 l^8 r^6-501 l^6 r^8-521 l^4 r^{10}-189 l^2 r^{12}-9 r^{14}-12 l^{12} r R-200 l^{10} r^3 R-1508 l^8 r^5 R+7824 l^6 r^7 R-2324 l^4 r^9 R-3528 l^2 r^{11} R-252 r^{13} R-8 l^{12} R^2-172 l^{10} r^2 R^2-440 l^8 r^4 R^2-2952 l^6 r^6 R^2+9080 l^4 r^8 R^2-27180 l^2 r^{10} R^2-3096 r^{12} R^2+64 l^{10} r R^3-64 l^8 r^3 R^3+4032 l^6 r^5 R^3+64960 l^4 r^7 R^3-110592 l^2 r^9 R^3-21888 r^{11} R^3+16 l^{10} R^4+848 l^8 r^2 R^4+8640 l^6 r^4 R^4+104384 l^4 r^6 R^4-251856 l^2 r^8 R^4-98064 r^{10} R^4-64 l^8 r R^5+6528 l^6 r^3 R^5+20608 l^4 r^5 R^5-314496 l^2 r^7 R^5-288576 r^9 R^5-1728 l^6 r^2 R^6-4736 l^4 r^4 R^6-209088 l^2 r^6 R^6-557568 r^8 R^6-16896 l^4 r^3 R^7-105984 l^2 r^5 R^7-681984 r^7 R^7-64512 l^2 r^4 R^8-479232 r^6 R^8-147456 r^5 R^9\right) \Big/ \left(\left(l^2+3 r^2+12 r R\right)^2 \left(l^4+18 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-4 l^2 R^2+20 r^2 R^2+16 r R^3\right)^2\right)\}$$

{X45, X(9)-BETH CONJUGATE OF X(1), X96, ISOGONAL CONJUGATE OF X(52),

$$-\left(\left(l^{14}-11 l^{12} r^2-47 l^{10} r^4+61 l^8 r^6+331 l^6 r^8+343 l^4 r^{10}+99 l^2 r^{12}-9 r^{14}+4 l^{12} r R-312 l^{10} r^3 R+2236 l^8 r^5 R-5200 l^6 r^7 R+2876 l^4 r^9 R+2184 l^2 r^{11} R-252 r^{13} R-12 l^{12} R^2-156 l^{10} r^2 R^2+4428 l^8 r^4 R^2-12840 l^6 r^6 R^2+3420 l^4 r^8 R^2+20772 l^2 r^{10} R^2-3132 r^{12} R^2-96 l^{10} r R^3+4128 l^8 r^3 R^3-10816 l^6 r^5 R^3-34624 l^4 r^7 R^3+111264 l^2 r^9 R^3-22752 r^{11} R^3+56 l^{10} R^4+1576 l^8 r^2 R^4-3856 l^6 r^4 R^4-140016 l^4 r^6 R^4+368088 l^2 r^8 R^4-107064 r^{10} R^4+672 l^8 r R^5-4736 l^6 r^3 R^5-207680 l^4 r^5 R^5+776832 l^2 r^7 R^5-341856 r^9 R^5-128 l^8 R^6-5088 l^6 r^2 R^6-140224 l^4 r^4 R^6+1045536 l^2 r^6 R^6-754560 r^8 R^6-2048 l^6 r R^7-34304 l^4 r^3 R^7+873984 l^2 r^5 R^7-1152000 r^7 R^7+144 l^6 R^8+5008 l^4 r^2 R^8+426480 l^2 r^4 R^8-1199376 r^6 R^8+2880 l^4 r R^9+103296 l^2 r^3 R^9-826560 r^5 R^9-64 l^4 R^{10}+5184 l^2 r^2 R^{10}-357696 r^4 R^{10}-1536 l^2 r R^{11}-87552 r^3 R^{11}-9216 r^2 R^{12}\right) \Big/ \left(\left(l^2+3 r^2+12 r R\right)^2 \left(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2-4 R^4\right)^2\right)\right)\}$$

{X45, X(9)-BETH CONJUGATE OF X(1), X97, ISOGONAL CONJUGATE OF X(53),

$$\left(R\left(96 l^{10} r^3-736 l^8 r^5+1056 l^6 r^7-160 l^4 r^9+76 l^{10} r^2 R-1632 l^8 r^4 R+4632 l^6 r^6 R-2048 l^4 r^8 R+60 l^2 r^{10} R+16 l^{10} r R^2-2544 l^8 r^3 R^2+14800 l^6 r^5 R^2-12048 l^4 r^7 R^2+1056 l^2 r^9 R^2+l^{10} R^3-1081 l^8 r^2 R^3+21310 l^6 r^4 R^3-39358 l^4 r^6 R^3+7617 l^2 r^8 R^3-9 r^{10} R^3-164 l^8 r R^4+18272 l^6 r^3 R^4-74760 l^4 r^5 R^4+29568 l^2 r^7 R^4-180 r^9 R^4-8 l^8 R^5+5012 l^6 r^2 R^5-79544 l^4 r^4 R^5+68244 l^2 r^6 R^5-1512 r^8 R^5+512 l^6 r R^6-47392 l^4 r^3 R^6+97824 l^2 r^5 R^6-6912 r^7 R^6+16 l^6 R^7-8464 l^4 r^2 R^7+85968 l^2 r^4 R^7-18576 r^6 R^7-448 l^4 r R^8+39168 l^2 r^3 R^8-29376 r^5 R^8+3648 l^2 r^2 R^9-25344 r^4 R^9-9216 r^3 R^{10}\right)\right) \Big/ \left(\left(l^2+3 r^2+12 r R\right)^2 \left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-7 l^2 R^2+23 r^2 R^2+28 r R^3+12 R^4\right)^2\right)\}$$

{X45, X(9)-BETH CONJUGATE OF X(1), X98, TarryPoint,

$$-\left(\left(l^{10}+3 l^8 r^2-6 l^6 r^4-26 l^4 r^6-27 l^2 r^8-9 r^{10}+12 l^8 r R-128 l^6 r^3 R+360 l^4 r^5 R-192 l^2 r^7 R-180 r^9 R-4 l^8 R^2-180 l^6 r^2 R^2+608 l^4 r^4 R^2+12 l^2 r^6 R^2-1476 r^8 R^2-64 l^6 r R^3+224 l^4 r^3 R^3+2592 l^2 r^5 R^3-6336 r^7 R^3+128 l^4 r^2 R^4+5568 l^2 r^4 R^4-14976 r^6 R^4+3072 l^2 r^3 R^5-18432 r^5 R^5-9216 r^4 R^6\right) \Big/ \left(\left(l^2+3 r^2+12 r R\right)^2 \left(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)\right)\right)\}$$

{X45, X(9)-BETH CONJUGATE OF X(1), X99, STEINER POINT,

$$\left(l^{10}+3 l^8 r^2-6 l^6 r^4-26 l^4 r^6-27 l^2 r^8-9 r^{10}-4 l^8 r R+144 l^6 r^3 R-328 l^4 r^5 R-144 l^2 r^7 R-180 r^9 R-108 l^6 r^2 R^2+136 l^4 r^4 R^2-108 l^2 r^6 R^2-1440 r^8 R^2-1056 l^4 r^3 R^3-864 l^2 r^5 R^3-5760 r^7 R^3-4032 l^2 r^4 R^4-11520 r^6 R^4-9216 r^5 R^5\right) \Big/ \left(\left(l^2+3 r^2+12 r R\right)^2 \left(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)\right)\}$$

{X45, X(9)-BETH CONJUGATE OF X(1), X100, ANTICOMPLEMENT OF FEUERBACH POINT,

$$\frac{R\left(-l^6-17 l^4 r^2+57 l^2 r^4+9 r^6+4 l^4 r R+24 l^2 r^3 R+108 r^5 R+156 l^2 r^2 R^2+432 r^4 R^2+576 r^3 R^3\right)}{(2 r-R)\left(l^2+3 r^2+12 r R\right)^2}\}$$

{X46, X(4)-CEVA CONJUGATE OF X(1), X47, X(110)-BETH CONJUGATE OF X(34),

$$-\frac{4 r^2 R\left(-l^2+3 r^2+4 r R+4 R^2\right)\left(-l^2 r+r^3+5 r^2 R+6 r R^2-R^3\right)}{(r-R)^2\left(-l^2+3 r^2+6 r R+2 R^2\right)^2}\}$$

{X46, X(4)-CEVA CONJUGATE OF X(1), X48, CROSSPOINT OF X(1) AND X(63),

$$-\left(\left(4 R\left(6 l^4 r^3-2 l^2 r^5+l^4 r^2 R-11 l^2 r^4 R+l^4 r R^2-22 l^2 r^3 R^2+r^5 R^2+l^4 R^3-27 l^2 r^2 R^3+12 r^4 R^3-24 l^2 r R^4+52 r^3 R^4-4 l^2 R^5+96 r^2 R^5+64 r R^6\right)\right) \Big/ \left((r-R)^2\left(-3 l^2+r^2+6 r R+8 R^2\right)^2\right)\right)\}$$

$$\{X46,\ X(4)\text{-CEVA CONJUGATE OF } X(1),\ X49,\ \text{CENTER OF SINE-TRIPLE-ANGLE CIRCLE},$$
$$-\left(\left(R\left(12 l^4 r^3-16 l^2 r^5+4 r^7+l^4 r^2 R-70 l^2 r^4 R+41 r^6 R+2 l^4 r R^2-106 l^2 r^3 R^2+164 r^5 R^2+l^4 R^3-50 l^2 r^2 R^3+329 r^4 R^3-26 l^2 r R^4+356 r^3 R^4-4 l^2 R^5+203 r^2 R^5+60 r R^6-R^7\right)\right)\Big/\left((r-R)^2\left(-2 l^2+2 r^2+8 r R+7 R^2\right)^2\right)\right)\}$$

$$\{X46,\ X(4)\text{-CEVA CONJUGATE OF } X(1),\ X50,\ X(74)\text{-CEVA CONJUGATE OF } X(184),$$
$$-\left(\left(4 r^2 R\left(l^8 r-9 l^6 r^3+19 l^4 r^5-3 l^2 r^7-13 l^6 r^2 R+70 l^4 r^4 R-29 l^2 r^6 R-11 l^6 r R^2+101 l^4 r^3 R^2-111 l^2 r^5 R^2+r^7 R^2-l^6 R^3+104 l^4 r^2 R^3-243 l^2 r^4 R^3+16 r^6 R^3+69 l^4 r R^4-383 l^2 r^3 R^4+102 r^5 R^4+6 l^4 R^5-399 l^2 r^2 R^5+328 r^4 R^5-183 l^2 r R^6+553 r^3 R^6-9 l^2 R^7+456 r^2 R^7+144 r R^8\right)\right)\Big/\left((r-R)^2\left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-3 l^2 R^2+19 r^2 R^2+12 r R^3\right)^2\right)\right)\}$$

$$\{X46,\ X(4)\text{-CEVA CONJUGATE OF } X(1),\ X51,\ \text{CENTROID OF ORTHIC TRIANGLE},$$
$$-\frac{1}{36\,(r-R)^2 R^2}\left(l^4 r^2+18 l^2 r^4+r^6-2 l^4 r R-32 l^2 r^3 R+18 r^5 R+l^4 R^2+30 l^2 r^2 R^2+77 r^4 R^2-12 l^2 r R^3+68 r^3 R^3-4 l^2 R^4-84 r^2 R^4+64 r R^5\right)\}$$

$$\{X46,\ X(4)\text{-CEVA CONJUGATE OF } X(1),\ X52,\ \text{ORTHOCENTER OF ORTHIC TRIANGLE},$$
$$\frac{1}{4\,(r-R)^2 R^2}\left(l^4 r^2-14 l^2 r^4+r^6-2 l^4 r R+16 l^2 r^3 R+2 r^5 R+l^4 R^2+6 l^2 r^2 R^2-19 r^4 R^2-4 l^2 r R^3-44 r^3 R^3-4 l^2 R^4+24 r^2 R^4+16 r R^5+4 R^6\right)\}$$

$$\{X46,\ X(4)\text{-CEVA CONJUGATE OF } X(1),\ X53,\ \text{SYMMEDIAN POINT OF ORTHIC TRIANGLE},$$
$$-\left(\left(4 r^2\left(-2 l^8 r^2+12 l^6 r^4-2 l^4 r^6+3 l^8 r R-l^6 r^3 R-19 l^4 r^5 R+l^2 r^7 R-15 l^6 r^2 R^2-18 l^4 r^4 R^2+9 l^2 r^6 R^2-31 l^6 r R^3+107 l^4 r^3 R^3+3 l^2 r^5 R^3+r^7 R^3-l^6 R^4+210 l^4 r^2 R^4-161 l^2 r^4 R^4+16 r^6 R^4+128 l^4 r R^5-536 l^2 r^3 R^5+104 r^5 R^5+8 l^4 R^6-648 l^2 r^2 R^6+352 r^4 R^6-272 l^2 r R^7+656 r^3 R^7-16 l^2 R^8+640 r^2 R^8+256 r R^9\right)\right)\Big/\left((r-R)^2\left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-4 l^2 R^2+20 r^2 R^2+16 r R^3\right)^2\right)\right)\}$$

$$\{X46,\ X(4)\text{-CEVA CONJUGATE OF } X(1),\ X54,\ \text{KosnitaPoint},$$
$$-\left(\left(R\left(12 l^4 r^3-16 l^2 r^5+4 r^7+4 l^4 r^2 R-68 l^2 r^4 R+40 r^6 R-110 l^2 r^3 R^2+154 r^5 R^2-45 l^2 r^2 R^3+295 r^4 R^3-2 l^2 r R^4+294 r^3 R^4+l^2 R^5+113 r^2 R^5+4 r R^6-4 R^7\right)\right)\Big/\left((r-R)^2\left(-2 l^2+2 r^2+8 r R+5 R^2\right)^2\right)\right)\}$$

$$\{X46,\ X(4)\text{-CEVA CONJUGATE OF } X(1),\ X55,$$
$$\text{INSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ -\frac{r^2\,(2 r-R)\,R\,(r+3 R)^2}{(r-R)^2\,(r+R)^2}\}$$

$$\{X46,\ X(4)\text{-CEVA CONJUGATE OF } X(1),\ X56,\ \text{EXSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ -\frac{r^2\,(2 r-R)\,R}{(r-R)^2}\}$$

$$\{X46,\ X(4)\text{-CEVA CONJUGATE OF } X(1),\ X57,\ \text{ISOGONAL CONJUGATE OF } X(9),\ -\frac{4 r^2\,(2 r-R)\,R^3}{(r-2 R)^2\,(r-R)^2}\}$$

$$\{X46,\ X(4)\text{-CEVA CONJUGATE OF } X(1),\ X58,\ \text{ISOGONAL CONJUGATE OF } X(10),$$
$$-\frac{4 r^2 R\left(l^4 r-4 l^2 r^3+3 r^5-3 l^2 r^2 R+9 r^4 R-6 l^2 r R^2+10 r^3 R^2-l^2 R^3+11 r^2 R^3+16 r R^4\right)}{(r-R)^2\left(-l^2+3 r^2+4 r R\right)^2}\}$$

$$\{X46,\ X(4)\text{-CEVA CONJUGATE OF } X(1),\ X59,\ \text{ISOGONAL CONJUGATE OF } X(11),$$
$$-\left(\left(r^2 R\left(6 l^4 r^2-8 l^2 r^4+2 r^6-2 l^4 r R-40 l^2 r^3 R+26 r^5 R-65 l^2 r^2 R^2+123 r^4 R^2+36 l^2 r R^3+240 r^3 R^3-3 l^2 R^4+113 r^2 R^4-120 r R^5+16 R^6\right)\right)\Big/\left((r-R)^2\,(2 r-R)\left(-l^2+r^2+5 r R+4 R^2\right)^2\right)\right)\}$$

$$\{X46,\ X(4)\text{-CEVA CONJUGATE OF } X(1),\ X60,\ \text{ISOGONAL CONJUGATE OF } X(12),$$
$$-\left(\left(r^2 R\left(12 l^4 r^3-16 l^2 r^5+4 r^7+18 l^4 r^2 R-64 l^2 r^4 R+30 r^6 R+6 l^4 r R^2-114 l^2 r^3 R^2+96 r^5 R^2-115 l^2 r^2 R^3+185 r^4 R^3-66 l^2 r R^4+274 r^3 R^4-9 l^2 R^5+291 r^2 R^5+144 r R^6\right)\right)\Big/\left((r-R)^2\left(-2 l^2 r+2 r^3-l^2 R+7 r^2 R+7 r R^2\right)^2\right)\right)\}$$

$$\left\{X46,\ X(4)\text{-CEVA CONJUGATE OF }X(1),\ X61,\ \text{ISOGONAL CONJUGATE OF }X(17),\ \left(12 r^2 R \left(\sqrt{3}\, l + r + 4 R\right) \left(-\sqrt{3}\, l^3 r - 2 l^2 r^2 + \sqrt{3}\, l r^3 + 2 l^2 r R + 2 \sqrt{3}\, l r^2 R + l^2 R^2 + 4 \sqrt{3}\, l r R^2 - 3 r^2 R^2 - 12 r R^3\right)\right) \Big/ \left((r - R)^2 \left(3 l^2 + 2 \sqrt{3}\, l r - 3 r^2 - 12 r R\right)^2\right)\right\}$$

$$\left\{X46,\ X(4)\text{-CEVA CONJUGATE OF }X(1),\ X62,\ \text{ISOGONAL CONJUGATE OF }X(18),\ -\left(\left(12 r^2 R \left(-\sqrt{3}\, l + r + 4 R\right) \left(-\sqrt{3}\, l^3 r + 2 l^2 r^2 + \sqrt{3}\, l r^3 - 2 l^2 r R + 2 \sqrt{3}\, l r^2 R - l^2 R^2 + 4 \sqrt{3}\, l r R^2 + 3 r^2 R^2 + 12 r R^3\right)\right) \Big/ \left((r - R)^2 \left(3 l^2 - 2 \sqrt{3}\, l r - 3 r^2 - 12 r R\right)^2\right)\right)\right\}$$

$$\left\{X46,\ X(4)\text{-CEVA CONJUGATE OF }X(1),\ X63,\ \text{ISOGONAL CONJUGATE OF }X(19),\ \frac{R^2 \left(-3 l^2 r^2 + r^4 + 2 l^2 r R + 2 r^3 R + l^2 R^2 - 3 r^2 R^2 - 16 r R^3\right)}{(r - R)^2 (r + R)^2}\right\}$$

$$\left\{X46,\ X(4)\text{-CEVA CONJUGATE OF }X(1),\ X64,\ \text{ISOGONAL CONJUGATE OF }X(20),\ -\left(\left(4 R \left(-l^2 r^5 + r^7 + l^4 r^2 R - 5 l^2 r^4 R + 7 r^6 R + 3 l^4 r R^2 - 11 l^2 r^3 R^2 + 22 r^5 R^2 - 3 l^4 R^3 - 21 l^2 r^2 R^3 + 43 r^4 R^3 - 8 l^2 r R^4 + 60 r^3 R^4 + 28 l^2 R^5 + 44 r^2 R^5 - 32 r R^6 - 64 R^7\right)\right) \Big/ \left((r - R)^2 (-l + r + 2 R)^2 (l + r + 2 R)^2\right)\right)\right\}$$

$$\left\{X46,\ X(4)\text{-CEVA CONJUGATE OF }X(1),\ X65,\ \text{ORTHOCENTER OF THE INTOUCH TRIANGLE},\ -\frac{r^2 (2 r - R) (r + R)^2}{(r - R)^2 R}\right\}$$

$$\left\{X46,\ X(4)\text{-CEVA CONJUGATE OF }X(1),\ X66,\ \text{ISOGONAL CONJUGATE OF }X(22),\ -\frac{1}{(r - R)^2 (-l + r + 2 R)^2 (l + r + 2 R)^2 \left(-l^2 + r^2 + 4 r R\right)^2} \left(2 l^{10} r^2 - 12 l^8 r^4 + 24 l^6 r^6 - 20 l^4 r^8 + 6 l^2 r^{10} - 2 l^{10} r R - 20 l^8 r^3 R + 120 l^6 r^5 R - 172 l^4 r^7 R + 74 l^2 r^9 R + 19 l^8 r^2 R^2 + 112 l^6 r^4 R^2 - 470 l^4 r^6 R^2 + 336 l^2 r^8 R^2 + 3 r^{10} R^2 + 16 l^8 r R^3 - 132 l^6 r^3 R^3 - 276 l^4 r^5 R^3 + 596 l^2 r^7 R^3 + 52 r^9 R^3 + l^8 R^4 - 176 l^6 r^2 R^4 + 646 l^4 r^4 R^4 - 128 l^2 r^6 R^4 + 361 r^8 R^4 - 56 l^6 r R^5 + 944 l^4 r^3 R^5 - 1912 l^2 r^5 R^5 + 1280 r^7 R^5 - 4 l^6 R^6 + 412 l^4 r^2 R^6 - 2492 l^2 r^4 R^6 + 2452 r^6 R^6 + 80 l^4 r R^7 - 1248 l^2 r^3 R^7 + 2480 r^5 R^7 - 272 l^2 r^2 R^8 + 1216 r^4 R^8 + 256 r^3 R^9\right)\right\}$$

$$\left\{X46,\ X(4)\text{-CEVA CONJUGATE OF }X(1),\ X67,\ \text{ISOGONAL CONJUGATE OF }X(23),\ -\frac{1}{(r - R)^2 \left(-l^2 + r^2 + 4 r R\right)^2 \left(-2 l^2 + 2 r^2 + 8 r R + 9 R^2\right)} \left(-3 l^8 r^2 + 20 l^6 r^4 - 30 l^4 r^6 + 12 l^2 r^8 + r^{10} + 2 l^8 r R + 14 l^6 r^3 R - 114 l^4 r^5 R + 82 l^2 r^7 R + 16 r^9 R + l^8 R^2 - 8 l^6 r^2 R^2 - 54 l^4 r^4 R^2 + 152 l^2 r^6 R^2 + 101 r^8 R^2 - 30 l^6 r R^3 + 138 l^4 r^3 R^3 - 78 l^2 r^5 R^3 + 322 r^7 R^3 - 4 l^6 R^4 + 144 l^4 r^2 R^4 - 512 l^2 r^4 R^4 + 560 r^6 R^4 + 72 l^4 r R^5 - 484 l^2 r^3 R^5 + 548 r^5 R^5 - 132 l^2 r^2 R^6 + 288 r^4 R^6 + 64 r^3 R^7\right)\right\}$$

$$\left\{X46,\ X(4)\text{-CEVA CONJUGATE OF }X(1),\ X68,\ \text{PRASOLOV POINT},\ -\left(\left(2 l^6 r^2 - 8 l^4 r^4 + 6 l^2 r^6 - 2 l^6 r R - 8 l^4 r^3 R + 26 l^2 r^5 R + l^4 r^2 R^2 + 34 l^2 r^4 R^2 + r^6 R^2 + 20 l^4 r R^3 - 24 l^2 r^3 R^3 + 12 r^5 R^3 - l^4 R^4 - 66 l^2 r^2 R^4 + 55 r^4 R^4 - 52 l^2 r R^5 + 116 r^3 R^5 + 4 l^2 R^6 + 104 r^2 R^6 + 40 r R^7 - 4 R^8\right) \Big/ \left((r - R)^2 (-l + r + 2 R)^2 (l + r + 2 R)^2\right)\right)\right\}$$

$$\left\{X46,\ X(4)\text{-CEVA CONJUGATE OF }X(1),\ X69,\ \text{SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},\ -\left(\left(l^6 r^2 - 9 l^4 r^4 + 7 l^2 r^6 + r^8 + 4 l^4 r^3 R + 16 l^2 r^5 R + 12 r^7 R - l^6 R^2 - 7 l^4 r^2 R^2 + 9 l^2 r^4 R^2 + 47 r^6 R^2 + 16 l^4 r R^3 - 72 l^2 r^3 R^3 + 56 r^5 R^3 - 16 r^4 R^4\right) \Big/ \left((r - R)^2 \left(-l^2 + r^2 + 4 r R\right)^2\right)\right)\right\}$$

$$\{X46,\ X(4)\text{-CEVA CONJUGATE OF } X(1),\ X70,\ \text{ISOGONAL CONJUGATE OF } X(26),$$
$$-\Big(\big(2 l^{10} r^2 - 12 l^8 r^4 + 24 l^6 r^6 - 20 l^4 r^8 + 6 l^2 r^{10} - 2 l^{10} r R - 20 l^8 r^3 R + 120 l^6 r^5 R - 172 l^4 r^7 R + 74 l^2 r^9 R + 10 l^8 r^2 R^2 + 152 l^6 r^4 R^2 - 524 l^4 r^6 R^2 + 360 l^2 r^8 R^2 + 2 r^{10} R^2 + 26 l^8 r R^3 - 62 l^6 r^3 R^3 - 558 l^4 r^5 R^3 + 814 l^2 r^7 R^3 + 36 r^9 R^3 - 235 l^6 r^2 R^4 + 321 l^4 r^4 R^4 + 539 l^2 r^6 R^4 + 271 r^8 R^4 - 128 l^6 r R^5 + 1214 l^4 r^3 R^5 - 1352 l^2 r^5 R^5 + 1114 r^7 R^5 + l^6 R^6 + 983 l^4 r^2 R^6 - 3409 l^2 r^4 R^6 + 2745 r^6 R^6 + 282 l^4 r R^7 - 3242 l^2 r^3 R^7 + 4196 r^5 R^7 - 6 l^4 R^8 - 1473 l^2 r^2 R^8 + 3977 r^4 R^8 - 262 l^2 r R^9 + 2258 r^3 R^9 + 9 l^2 R^{10} + 697 r^2 R^{10} + 84 r R^{11} - 4 R^{12}\big) \Big/ \big((r-R)^2 \left(l^4 - 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 6 l^2 R^2 + 22 r^2 R^2 + 24 r R^3 + 7 R^4\right)^2\big)\Big)\}$$

$$\{X46,\ X(4)\text{-CEVA CONJUGATE OF } X(1),\ X71,\ \text{ISOGONAL CONJUGATE OF } X(27),$$
$$-\Big(\big(4 R^2 \left(l^4 r^2 + 5 l^2 r^4 + 3 l^4 r R + 20 l^2 r^3 R + r^5 R - 3 l^4 R^2 + 17 l^2 r^2 R^2 + 12 r^4 R^2 - 8 l^2 r R^3 + 52 r^3 R^3 - 4 l^2 R^4 + 96 r^2 R^4 + 64 r R^5\right)\big) \Big/ \big((r-R)^2 \left(l^2 + r^2 + 6 r R + 8 R^2\right)^2\big)\Big)\}$$

$$\{X46,\ X(4)\text{-CEVA CONJUGATE OF } X(1),\ X72,\ \text{ISOGONAL CONJUGATE OF } X(28),$$
$$-\frac{-l^2 r^3 + r^5 + 3 l^2 r^2 R - l^2 r R^2 - 9 r^3 R^2 - l^2 R^3 - 4 r^2 R^3 + 16 r R^4}{(r-R)^2 R}\}$$

$$\{X46,\ X(4)\text{-CEVA CONJUGATE OF } X(1),\ X73,\ \text{CROSSPOINT OF INCENTER AND CIRCUMCENTER},$$
$$-\frac{4 r^2 R \left(l^4 r + 2 l^2 r^3 + r^5 + l^2 r^2 R - 3 r^4 R - 14 l^2 r R^2 - 14 r^3 R^2 + l^2 R^3 + 9 r^2 R^3 + 36 r R^4 - 4 R^5\right)}{(r-R)^2 \left(l^2 + r^2 - 2 r R - 4 R^2\right)^2}\}$$

$$\{X46,\ X(4)\text{-CEVA CONJUGATE OF } X(1),\ X74,\ \text{ISOGONAL CONJUGATE OF EULER INFINITY POINT},$$
$$-\frac{R \left(-2 l^2 r^3 + 6 r^5 - 9 l^2 r^2 R + 27 r^4 R - 6 l^2 r R^2 + 50 r^3 R^2 + 9 l^2 R^3 + 41 r^2 R^3 - 12 r R^4 - 36 R^5\right)}{(r-R)^2 \left(-2 l^2 + 2 r^2 + 8 r R + 9 R^2\right)}\}$$

$$\{X46,\ X(4)\text{-CEVA CONJUGATE OF } X(1),\ X75,\ \text{ISOTOMIC CONJUGATE OF INCENTER},$$
$$-\frac{1}{(r-R)^2 \left(l^2 + r^2 + 4 r R\right)^2} \big(l^6 r^2 + 3 l^4 r^4 + 3 l^2 r^6 + r^8 + 4 l^4 r^3 R - 16 l^2 r^5 R + 12 r^7 R - l^6 R^2 - 19 l^4 r^2 R^2 - 19 l^2 r^4 R^2 + 47 r^6 R^2 + 16 l^4 r R^3 + 72 l^2 r^3 R^3 + 56 r^5 R^3 - 16 r^4 R^4\big)\}$$

$$\{X46,\ X(4)\text{-CEVA CONJUGATE OF } X(1),\ X76,$$
$$\text{3rd BROCARD POINT},\ -\frac{1}{(r-R)^2 \left(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\right)^2}$$
$$\big(l^{10} r^2 + 5 l^8 r^4 + 10 l^6 r^6 + 10 l^4 r^8 + 5 l^2 r^{10} + r^{12} - 20 l^8 r^3 R - 40 l^6 r^5 R + 40 l^2 r^9 R + 20 r^{11} R - l^{10} R^2 - 5 l^8 r^2 R^2 + 134 l^6 r^4 R^2 - 202 l^4 r^6 R^2 + 75 l^2 r^8 R^2 + 159 r^{10} R^2 + 24 l^8 r R^3 - 8 l^6 r^3 R^3 + 24 l^4 r^5 R^3 - 88 l^2 r^7 R^3 + 624 r^9 R^3 - 144 l^6 r^2 R^4 + 256 l^4 r^4 R^4 - 464 l^2 r^6 R^4 + 1184 r^8 R^4 + 256 l^4 r^3 R^5 - 768 l^2 r^5 R^5 + 768 r^7 R^5 - 256 r^6 R^6\big)\}$$

$$\{X46,\ X(4)\text{-CEVA CONJUGATE OF } X(1),\ X77,\ \text{ISOGONAL CONJUGATE OF } X(33),$$
$$-\frac{r^2 R \left(6 l^4 r - 2 l^2 r^3 - 2 l^4 R - 13 l^2 r^2 R + r^4 R - 36 l^2 r R^2 + 12 r^3 R^2 + 11 l^2 R^3 + 47 r^2 R^3 + 56 r R^4 - 16 R^5\right)}{(r-R)^2 \left(-l^2 + r R + 4 R^2\right)^2}\}$$

$$\{X46,\ X(4)\text{-CEVA CONJUGATE OF } X(1),\ X78,$$
$$\text{ISOGONAL CONJUGATE OF } X(34),\ -\frac{R \left(-2 l^2 r + 6 r^3 - l^2 R + 19 r^2 R + 16 r R^2\right)}{(r-R)^2}\}$$

$$\{X46,\ X(4)\text{-CEVA CONJUGATE OF } X(1),\ X79,$$
$$\text{ISOGONAL CONJUGATE OF } X(35),\ -\frac{4 r^2 \left(4 l^2 r^2 - 3 l^2 r R + r^3 R - l^2 R^2 + 8 r^2 R^2 + 16 r R^3\right)}{(r-R)^2 (2 r + 3 R)^2}\}$$

$$\{X46,\ X(4)\text{-CEVA CONJUGATE OF } X(1),\ X80,$$
$$\text{REFLECTION OF INCENTER IN FEUERBACH POINT},\ \frac{4 r^2 \left(-l^2 r + r^3 + l^2 R + 2 r^2 R - 4 R^3\right)}{(r-R)^2 (2 r - R)}\}$$

$$\left\{X46,\ X(4)\text{-CEVA CONJUGATE OF } X(1),\ X81,\ \text{CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},\ \frac{r^2 R\left(-6 l^4 r+2 l^2 r^3+2 l^4 R-l^2 r^2 R+r^4 R+14 l^2 r R^2+2 r^3 R^2+l^2 R^3-3 r^2 R^3-16 r R^4\right)}{(r-R)^2\left(-l^2+r^2+r R\right)^2}\right\}$$

$$\left\{X46,\ X(4)\text{-CEVA CONJUGATE OF } X(1),\ X82,\ \text{ISOGONAL CONJUGATE OF } X(38),\ -\frac{1}{(r-R)^2\left(l^4-4 l^2 r^2+3 r^4-9 l^2 r R+19 r^3 R+28 r^2 R^2\right)^2}\right.$$
$$\left. r^2 R\left(6 l^8 r-24 l^6 r^3+44 l^4 r^5-40 l^2 r^7+14 r^9-2 l^8 R-103 l^6 r^2 R+343 l^4 r^4 R-437 l^2 r^6 R+207 r^8 R+24 l^6 r R^2+700 l^4 r^3 R^2-1688 l^2 r^5 R^2+1156 r^7 R^2-l^6 R^3-43 l^4 r^2 R^3-2323 l^2 r^4 R^3+2951 r^6 R^3+32 l^4 r R^4-392 l^2 r^3 R^4+3256 r^5 R^4-320 l^2 r^2 R^5+1392 r^4 R^5+1024 r^3 R^6\right)\right\}$$

$$\left\{X46,\ X(4)\text{-CEVA CONJUGATE OF } X(1),\ X83,\ \text{CEVAPOINT OF CENTROID AND SYMMEDIAN POINT},\ -\frac{1}{(r-R)^2\left(5 l^4-6 l^2 r^2+5 r^4-40 l^2 r R+40 r^3 R+80 r^2 R^2\right)^2}\right.$$
$$\left(9 l^{10} r^2+21 l^8 r^4+10 l^6 r^6-6 l^4 r^8-3 l^2 r^{10}+r^{12}-8 l^{10} r R-124 l^8 r^3 R-264 l^6 r^5 R+224 l^4 r^7 R-112 l^2 r^9 R+28 r^{11} R-l^{10} R^2+163 l^8 r^2 R^2+342 l^6 r^4 R^2+1142 l^4 r^6 R^2-1029 l^2 r^8 R^2+311 r^{10} R^2+40 l^8 r R^3-1336 l^6 r^3 R^3+1992 l^4 r^5 R^3-4264 l^2 r^7 R^3+1840 r^9 R^3-592 l^6 r^2 R^4+6016 l^4 r^4 R^4-10384 l^2 r^6 R^4+6560 r^8 R^4+4096 l^4 r^3 R^5-16896 l^2 r^5 R^5+15104 r^7 R^5-13312 l^2 r^4 R^6+22272 r^6 R^6+16384 r^5 R^7\right)\Big\}$$

$$\left\{X46,\ X(4)\text{-CEVA CONJUGATE OF } X(1),\ X84,\ \text{ISOGONAL CONJUGATE OF } X(40),\ \frac{4(2r-R)R^2\left(-l^2 r+r^3+l^2 R+2 r^2 R-4 R^3\right)}{r^2(r-R)^2}\right\}$$

$$\left\{X46,\ X(4)\text{-CEVA CONJUGATE OF } X(1),\ X85,\ \text{ISOTOMIC CONJUGATE OF } X(9),\ -\left(\left(l^6 r^2+3 l^4 r^4+3 l^2 r^6+r^8+28 l^4 r^3 R+16 l^2 r^5 R+20 r^7 R-l^6 R^2-19 l^4 r^2 R^2-3 l^2 r^4 R^2+159 r^6 R^2-8 l^4 r R^3-24 l^2 r^3 R^3+624 r^5 R^3+208 l^2 r^2 R^4+1184 r^4 R^4+768 r^3 R^5-256 r^2 R^6\right)\Big/\left((r-R)^2\left(l^2+r^2+8 r R+16 R^2\right)^2\right)\right)\right\}$$

$$\left\{X46,\ X(4)\text{-CEVA CONJUGATE OF } X(1),\ X86,\ \text{CEVAPOINT OF INCENTER AND CENTROID},\ -\left(\left(9 l^6 r^2+19 l^4 r^4+11 l^2 r^6+r^8-8 l^6 r R+68 l^4 r^3 R+56 l^2 r^5 R+12 r^7 R-l^6 R^2-3 l^4 r^2 R^2+125 l^2 r^4 R^2+47 r^6 R^2+16 l^4 r R^3+8 l^2 r^3 R^3+56 r^5 R^3-16 r^4 R^4\right)\Big/\left((r-R)^2\left(5 l^2+r^2+4 r R\right)^2\right)\right)\right\}$$

$$\left\{X46,\ X(4)\text{-CEVA CONJUGATE OF } X(1),\ X87,\ X(2)\text{-CROSS CONJUGATE OF } X(1),\ -\left(\left(4 r^2 R^2\left(l^8-4 l^6 r^2-2 l^4 r^4+12 l^2 r^6+9 r^8-28 l^6 r R+108 l^4 r^3 R-276 l^2 r^5 R+100 r^7 R-4 l^6 R^2+212 l^4 r^2 R^2-204 l^2 r^4 R^2+348 r^6 R^2+96 l^4 r R^3-576 l^2 r^3 R^3+352 r^5 R^3-576 l^2 r^2 R^4+192 r^4 R^4+1024 r^3 R^5\right)\right)\Big/\left((r-R)^2\left(l^4+2 l^2 r^2+r^4-20 l^2 r R+12 r^3 R+32 r^2 R^2\right)^2\right)\right)\right\}$$

$$\left\{X46,\ X(4)\text{-CEVA CONJUGATE OF } X(1),\ X88,\ \text{ISOGONAL CONJUGATE OF } X(44),\ -\frac{r^2 R\left(2 l^4 r-6 l^2 r^3+2 l^4 R-39 l^2 r^2 R+27 r^4 R-42 l^2 r R^2+306 r^3 R^2-9 l^2 R^3+99 r^2 R^3+144 r R^4\right)}{(r-R)^2\left(l^2+3 r^2-15 r R\right)^2}\right\}$$

$$\left\{X46,\ X(4)\text{-CEVA CONJUGATE OF } X(1),\ X89,\ \text{ISOGONAL CONJUGATE OF } X(45),\ \frac{r^2 R\left(-20 l^4 r+12 l^2 r^3+4 l^4 R-93 l^2 r^2 R+27 r^4 R+120 l^2 r R^2-36 r^3 R^2+9 l^2 R^3+117 r^2 R^3-144 r R^4\right)}{(r-R)^2\left(-2 l^2+6 r^2-3 r R\right)^2}\right\}$$

$$\left\{X46,\ X(4)\text{-CEVA CONJUGATE OF } X(1),\ X90,\ X(3)\text{-CROSS CONJUGATE OF } X(1),\ \frac{4 r^2 R^2\left(-3 l^2 r^2+r^4+4 l^2 r R+4 r^3 R-l^2 R^2-r^2 R^2-12 r R^3+4 R^4\right)}{(r-R)^2\left(r^2+2 r R-R^2\right)^2}\right\}$$

$$\{X46,\ X(4)\text{-CEVA CONJUGATE OF } X(1),\ X91,\ \text{ISOGONAL CONJUGATE OF } X(47),$$
$$-\left(\left(r^2\left(l^6 r^2+3 l^4 r^4+3 l^2 r^6+r^8-2 l^6 r R+2 l^4 r^3 R-14 l^2 r^5 R+14 r^7 R+l^6 R^2-5 l^4 r^2 R^2-45 l^2 r^4 R^2+73 r^6 R^2+8 l^4 r R^3+168 r^5 R^3-8 l^4 R^4+36 l^2 r^2 R^4+140 r^4 R^4-32 r^3 R^5+20 l^2 R^6-76 r^2 R^6-16 r R^7-16 R^8\right)\right)\Big/\left((r-R)^2\left(l^2 r+r^3-l^2 R+3 r^2 R+2 r R^2+2 R^3\right)^2\right)\right)\}$$

$$\{X46,\ X(4)\text{-CEVA CONJUGATE OF } X(1),\ X92,\ \text{CEVAPOINT OF INCENTER AND CLAWSON POINT},$$
$$-\frac{1}{(r-R)^2\left(l^2+r^2-4R^2\right)^2}\left(l^6 r^2+3 l^4 r^4+3 l^2 r^6+r^8+4 l^4 r^3 R-16 l^2 r^5 R+12 r^7 R-l^6 R^2-35 l^4 r^2 R^2-35 l^2 r^4 R^2+47 r^6 R^2+24 l^4 r R^3+104 l^2 r^3 R^3+48 r^5 R^3+8 l^4 R^4+96 l^2 r^2 R^4-120 r^4 R^4-160 l^2 r R^5-256 r^3 R^5-16 l^2 R^6+48 r^2 R^6+256 r R^7\right)\}$$

$$\{X46,\ X(4)\text{-CEVA CONJUGATE OF } X(1),\ X93,\ \text{ISOGONAL CONJUGATE OF } X(49),$$
$$-\left(\left(l^{10} r^2+5 l^8 r^4+10 l^6 r^6+10 l^4 r^8+5 l^2 r^{10}+r^{12}-20 l^8 r^3 R-40 l^6 r^5 R+40 l^2 r^9 R+20 r^{11} R-l^{10} R^2-23 l^8 r^2 R^2+138 l^6 r^4 R^2-130 l^4 r^6 R^2+135 l^2 r^8 R^2+169 r^{10} R^2+32 l^8 r R^3+204 l^6 r^3 R^3-372 l^4 r^5 R^3+244 l^2 r^7 R^3+788 r^9 R^3+10 l^8 R^4-104 l^6 r^2 R^4-568 l^4 r^4 R^4+112 l^2 r^6 R^4+2230 r^8 R^4-288 l^6 r R^5+356 l^4 r^3 R^5-656 l^2 r^5 R^5+4012 r^7 R^5-32 l^6 R^6+1226 l^4 r^2 R^6-2032 l^2 r^4 R^6+4822 r^6 R^6+852 l^4 r R^7-3148 l^2 r^3 R^7+4360 r^5 R^7+34 l^4 R^8-2485 l^2 r^2 R^8+3589 r^4 R^8-944 l^2 r R^9+2664 r^3 R^9-7 l^2 R^{10}+1337 r^2 R^{10}+348 r R^{11}-4 R^{12}\right)\Big/\left((r-R)^2\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-8 l^2 R^2+24 r^2 R^2+32 r R^3+13 R^4\right)^2\right)\right)\}$$

$$\{X46,\ X(4)\text{-CEVA CONJUGATE OF } X(1),\ X94,\ \text{ISOGONAL CONJUGATE OF } X(50),$$
$$-\left(\left(l^{10} r^2+5 l^8 r^4+10 l^6 r^6+10 l^4 r^8+5 l^2 r^{10}+r^{12}-20 l^8 r^3 R-40 l^6 r^5 R+40 l^2 r^9 R+20 r^{11} R-l^{10} R^2-29 l^8 r^2 R^2+122 l^6 r^4 R^2-142 l^4 r^6 R^2+135 l^2 r^8 R^2+171 r^{10} R^2+36 l^8 r R^3+304 l^6 r^3 R^3-336 l^4 r^5 R^3+224 l^2 r^7 R^3+828 r^9 R^3+12 l^8 R^4-114 l^6 r^2 R^4-746 l^4 r^4 R^4-110 l^2 r^6 R^4+2558 r^8 R^4-372 l^6 r R^5+52 l^4 r^3 R^5-1284 l^2 r^5 R^5+5460 r^7 R^5-54 l^6 R^6+1842 l^4 r^2 R^6-2766 l^2 r^4 R^6+8570 r^6 R^6+1404 l^4 r R^7-4776 l^2 r^3 R^7+10\,212 r^5 R^7+108 l^4 R^8-5247 l^2 r^2 R^8+9441 r^4 R^8-2268 l^2 r R^9+7272 r^3 R^9-81 l^2 R^{10}+4347 r^2 R^{10}+1296 r R^{11}\right)\Big/\left((r-R)^2\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-12 l^2 R^2+28 r^2 R^2+48 r R^3+27 R^4\right)^2\right)\right)\}$$

$$\{X46,\ X(4)\text{-CEVA CONJUGATE OF } X(1),\ X95,\ \text{CEVAPOINT OF CENTROID AND CIRCUMCENTER},$$
$$-\left(\left(l^{10} r^2+21 l^8 r^4+58 l^6 r^6+58 l^4 r^8+21 l^2 r^{10}+r^{12}-20 l^8 r^3 R-200 l^6 r^5 R+576 l^4 r^7 R+264 l^2 r^9 R+20 r^{11} R-l^{10} R^2-29 l^8 r^2 R^2+102 l^6 r^4 R^2+454 l^4 r^6 R^2+1259 l^2 r^8 R^2+167 r^{10} R^2+24 l^8 r R^3+280 l^6 r^3 R^3-360 l^4 r^5 R^3+2696 l^2 r^7 R^3+752 r^9 R^3+8 l^8 R^4-16 l^6 r^2 R^4-848 l^4 r^4 R^4+2160 l^2 r^6 R^4+1960 r^8 R^4-160 l^6 r R^5-32 l^4 r^3 R^5-800 l^2 r^5 R^5+2912 r^7 R^5-16 l^6 R^6+400 l^4 r^2 R^6-2288 l^2 r^4 R^6+2160 r^6 R^6+256 l^4 r R^7-1152 l^2 r^3 R^7+384 r^5 R^7-256 r^4 R^8\right)\Big/\left((r-R)^2\left(l^4+18 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-4 l^2 R^2+20 r^2 R^2+16 r R^3\right)^2\right)\right)\}$$

$$\{X46,\ X(4)\text{-CEVA CONJUGATE OF } X(1),\ X96,\ \text{ISOGONAL CONJUGATE OF } X(52),$$
$$\frac{1}{(r-R)^2\left(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2-4 R^4\right)^2}\left(l^{10} r^2-11 l^8 r^4-38 l^6 r^6-38 l^4 r^8-11 l^2 r^{10}+r^{12}-24 l^8 r^3 R+232 l^6 r^5 R-344 l^4 r^7 R-72 l^2 r^9 R+16 r^{11} R-l^{10} R^2+7 l^8 r^2 R^2+334 l^6 r^4 R^2-1050 l^4 r^6 R^2+3 l^2 r^8 R^2+99 r^{10} R^2+12 l^8 r R^3-24 l^6 r^3 R^3-1856 l^4 r^5 R^3+1016 l^2 r^7 R^3+276 r^9 R^3+12 l^8 R^4-160 l^6 r^2 R^4-808 l^4 r^4 R^4+3008 l^2 r^6 R^4+188 r^8 R^4-112 l^6 r R^5+736 l^4 r^3 R^5+3440 l^2 r^5 R^5-864 r^7 R^5-56 l^6 R^6+744 l^4 r^2 R^6+280 l^2 r^4 R^6-2376 r^6 R^6+384 l^4 r R^7-1888 l^2 r^3 R^7-2080 r^5 R^7+128 l^4 R^8-1360 l^2 r^2 R^8+304 r^4 R^8-576 l^2 r R^9+1408 r^3 R^9-144 l^2 R^{10}+880 r^2 R^{10}+320 r R^{11}+64 R^{12}\right)\}$$

$$\{X46,\ X(4)\text{-CEVA CONJUGATE OF } X(1),\ X97,\ \text{ISOGONAL CONJUGATE OF } X(53),$$
$$-\left(\left(R\left(4 l^8 r^3-36 l^6 r^5+76 l^4 r^7-12 l^2 r^9-2 l^8 r^2 R-46 l^6 r^4 R+282 l^4 r^6 R-122 l^2 r^8 R+2 l^8 r R^2-40 l^6 r^3 R^2+472 l^4 r^5 R^2-536 l^2 r^7 R^2+6 r^9 R^2-21 l^6 r^2 R^3+529 l^4 r^4 R^3-1387 l^2 r^6 R^3+95 r^8 R^3-24 l^6 r R^4+528 l^4 r^3 R^4-2480 l^2 r^5 R^4+632 r^7 R^4-l^6 R^5+325 l^4 r^2 R^5-3223 l^2 r^4 R^5+2291 r^6 R^5+120 l^4 r R^6-2752 l^2 r^3 R^6+4904 r^5 R^6+8 l^4 R^7-1280 l^2 r^2 R^7+6264 r^4 R^7-288 l^2 r R^8+4576 r^3 R^8-16 l^2 R^9+1712 r^2 R^9+256 r R^{10}\right)\right)\Big/\left((r-R)^2\left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-7 l^2 R^2+23 r^2 R^2+28 r R^3+12 R^4\right)^2\right)\right)\}$$

$$\{X46,\ X(4)\text{-CEVA CONJUGATE OF } X(1),\ X98,\ \text{TarryPoint},\ (l^6 r^2+3 l^4 r^4+3 l^2 r^6+r^8-16 l^4 r^3 R+24 l^2 r^5 R+8 r^7 R-l^6 R^2-7 l^4 r^2 R^2+53 l^2 r^4 R^2+11 r^6 R^2+12 l^4 r R^3+64 l^2 r^3 R^3-44 r^5 R^3+4 l^4 R^4-24 l^2 r^2 R^4-108 r^4 R^4-32 l^2 r R^5-32 r^3 R^5+64 r^2 R^6)/((r-R)^2 (l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2))\}$$

$$\{X46,\ X(4)\text{-CEVA CONJUGATE OF } X(1),\ X99,\ \text{STEINER POINT},\ -((l^6 r^2+3 l^4 r^4+3 l^2 r^6+r^8-12 l^4 r^3 R-32 l^2 r^5 R+12 r^7 R-l^6 R^2-3 l^4 r^2 R^2-35 l^2 r^4 R^2+47 r^6 R^2+16 l^4 r R^3-24 l^2 r^3 R^3+56 r^5 R^3-16 r^4 R^4)/((r-R)^2 (l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2)))\}$$

$$\{X46,\ X(4)\text{-CEVA CONJUGATE OF } X(1),\ X100,\ \text{ANTICOMPLEMENT OF FEUERBACH POINT},\ -\frac{R(-l^2 r^2+3 r^4+12 r^3 R+l^2 R^2+5 r^2 R^2-16 r R^3)}{(r-R)^2 (2 r-R)}\}$$

$$\{X47,\ X(110)\text{-BETH CONJUGATE OF } X(34),\ X48,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(63),\ -\frac{1}{(3 l^2-r^2-6 r R-8 R^2)^2 (l^2-3 r^2-6 r R-2 R^2)^2} 4 R^2 (l^8+4 l^6 r^2+6 l^4 r^4+4 l^2 r^6+r^8-30 l^6 r R+54 l^4 r^3 R-26 l^2 r^5 R+18 r^7 R-8 l^6 R^2+164 l^4 r^2 R^2-272 l^2 r^4 R^2+132 r^6 R^2+204 l^4 r R^3-728 l^2 r^3 R^3+508 r^5 R^3+20 l^4 R^4-844 l^2 r^2 R^4+1104 r^4 R^4-416 l^2 r R^5+1360 r^3 R^5-16 l^2 R^6+896 r^2 R^6+256 r R^7)\}$$

$$\{X47,\ X(110)\text{-BETH CONJUGATE OF } X(34),\ X49,\ \text{CENTER OF SINE-TRIPLE-ANGLE CIRCLE},\ -\frac{1}{(2 l^2-2 r^2-8 r R-7 R^2)^2 (l^2-3 r^2-6 r R-2 R^2)^2} R^2 (l^8+4 l^6 r^2+6 l^4 r^4+4 l^2 r^6+r^8-28 l^6 r R+28 l^4 r^3 R-52 l^2 r^5 R+20 r^7 R-8 l^6 R^2+144 l^4 r^2 R^2-280 l^2 r^4 R^2+144 r^6 R^2+204 l^4 r R^3-600 l^2 r^3 R^3+508 r^5 R^3+19 l^4 R^4-774 l^2 r^2 R^4+999 r^4 R^4-456 l^2 r R^5+1208 r^3 R^5-12 l^2 R^6+904 r^2 R^6+320 r R^7-4 R^8)\}$$

$$\{X47,\ X(110)\text{-BETH CONJUGATE OF } X(34),\ X50,\ X(74)\text{-CEVA CONJUGATE OF } X(184),\ -((4 r^2 R^2 (l^8 r^2+4 l^6 r^4+6 l^4 r^6+4 l^2 r^8+r^{10}+2 l^8 r R-36 l^6 r^3 R+72 l^4 r^5 R+4 l^2 r^7 R+22 r^9 R-50 l^6 r^2 R^2+250 l^4 r^4 R^2-198 l^2 r^6 R^2+206 r^8 R^2-20 l^6 r R^3+488 l^4 r^3 R^3-1076 l^2 r^5 R^3+1072 r^7 R^3-4 l^6 R^4+445 l^4 r^2 R^4-2486 l^2 r^4 R^4+3401 r^6 R^4+174 l^4 r R^5-3084 l^2 r^3 R^5+6806 r^5 R^5+24 l^4 R^6-2028 l^2 r^2 R^6+8616 r^4 R^6-588 l^2 r R^7+6724 r^3 R^7-36 l^2 R^8+2976 r^2 R^8+576 r R^9))/((l^2-3 r^2-6 r R-2 R^2)^2 (l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-3 l^2 R^2+19 r^2 R^2+12 r R^3)^2)))\}$$

$$\{X47,\ X(110)\text{-BETH CONJUGATE OF } X(34),\ X51,\ \text{CENTROID OF ORTHIC TRIANGLE},\ -\frac{1}{36 R^2 (-l^2+3 r^2+6 r R+2 R^2)^2} (l^8+12 l^6 r^2-98 l^4 r^4+156 l^2 r^6+9 r^8-20 l^6 r R-124 l^4 r^3 R+516 l^2 r^5 R+108 r^7 R-8 l^6 R^2-52 l^4 r^2 R^2+848 l^2 r^4 R^2+444 r^6 R^2+144 l^4 r R^3+640 l^2 r^3 R^3+624 r^5 R^3+20 l^4 R^4+88 l^2 r^2 R^4-188 r^4 R^4-336 l^2 r R^5-784 r^3 R^5-16 l^2 R^6-208 r^2 R^6+256 r R^7)\}$$

$$\{X47,\ X(110)\text{-BETH CONJUGATE OF } X(34),\ X52,\ \text{ORTHOCENTER OF ORTHIC TRIANGLE},\ \frac{1}{4 R^2 (-l^2+3 r^2+6 r R+2 R^2)^2} (l^8-20 l^6 r^2+94 l^4 r^4-132 l^2 r^6+9 r^8-20 l^6 r R+260 l^4 r^3 R-636 l^2 r^5 R+108 r^7 R-8 l^6 R^2+276 l^4 r^2 R^2-1312 l^2 r^4 R^2+516 r^6 R^2+112 l^4 r R^3-1408 l^2 r^3 R^3+1296 r^5 R^3+24 l^4 R^4-800 l^2 r^2 R^4+1896 r^4 R^4-208 l^2 r R^5+1584 r^3 R^5-32 l^2 R^6+688 r^2 R^6+128 r R^7+16 R^8)\}$$

$$\{X47,\ X(110)\text{-BETH CONJUGATE OF }X(34),\ X53,\ \text{SYMMEDIAN POINT OF ORTHIC TRIANGLE},$$
$$-\Big(\Big(4r^2\big(6l^{10}r^2-56l^8r^4+132l^6r^6-56l^4r^8+6l^2r^{10}-96l^8r^3R+544l^6r^5R-544l^4r^7R+96l^2r^9R-51l^8r^2R^2+892l^6r^4R^2-1998l^4r^6R^2+644l^2r^8R^2+r^{10}R^2-2l^8rR^3+640l^6r^3R^3-3540l^4r^5R^3+2304l^2r^7R^3+22r^9R^3+156l^6r^2R^4-3160l^4r^4R^4+4620l^2r^6R^4+208r^8R^4+4l^6rR^5-1188l^4r^3R^5+4812l^2r^5R^5+1108r^7R^5-4l^6R^6+88l^4r^2R^6+1372l^2r^4R^6+3664r^6R^6+160l^4rR^7-2144l^2r^3R^7+7808r^5R^7+32l^4R^8-2336l^2r^2R^8+10752r^4R^8-832l^2rR^9+9280r^3R^9-64l^2R^{10}+4608r^2R^{10}+1024rR^{11}\big)\Big)\Big/\Big(\big(l^2-3r^2-6rR-2R^2\big)^2\big(l^4-6l^2r^2+r^4-8l^2rR+8r^3R-4l^2R^2+20r^2R^2+16rR^3\big)^2\Big)\Big)\}$$

$$\{X47,\ X(110)\text{-BETH CONJUGATE OF }X(34),\ X54,\ \text{KosnitaPoint},$$
$$-\Big(\Big(R^2\big(4l^6r^2+12l^4r^4+12l^2r^6+4r^8-8l^6rR+8l^4r^3R-56l^2r^5R+56r^7R+l^6R^2+43l^4r^2R^2-237l^2r^4R^2+297r^6R^2+52l^4rR^3-320l^2r^3R^3+748r^5R^3-8l^4R^4-280l^2r^2R^4+960r^4R^4-96l^2rR^5+720r^3R^5+20l^2R^6+324r^2R^6+48rR^7-16R^8\big)\Big)\Big/\Big(\big(2l^2-2r^2-8rR-5R^2\big)^2\big(l^2-3r^2-6rR-2R^2\big)^2\Big)\Big)\}$$

$$\{X47,\ X(110)\text{-BETH CONJUGATE OF }X(34),\ X55,\ \text{INSIMILICENTER(CIRCUMCIRCLE, INCIRCLE)},$$
$$-\frac{r^2R^2\left(-3l^4+14l^2r^2+r^4+24l^2rR+8r^3R+4l^2R^2+16r^2R^2+8rR^3-4R^4\right)}{(r+R)^2\left(-l^2+3r^2+6rR+2R^2\right)^2}\}$$

$$\{X47,\ X(110)\text{-BETH CONJUGATE OF }X(34),\ X56,\ \text{EXSIMILICENTER(CIRCUMCIRCLE, INCIRCLE)},$$
$$\frac{r^2R^2\left(-l^4-6l^2r^2+11r^4+24l^2rR+8r^3R+4l^2R^2-56r^2R^2-88rR^3+4R^4\right)}{(r-R)^2\left(-l^2+3r^2+6rR+2R^2\right)^2}\}$$

$$\{X47,\ X(110)\text{-BETH CONJUGATE OF }X(34),\ X57,\ \text{ISOGONAL CONJUGATE OF }X(9),$$
$$-\Big(\Big(4r^2R\big(l^4r-4l^2r^3+3r^5+l^4R-15l^2r^2R+28r^4R-30l^2rR^2+94r^3R^2-4l^2R^3+140r^2R^3+88rR^4-4R^5\big)\Big)\Big/\Big((r-2R)^2\big(-l^2+3r^2+6rR+2R^2\big)^2\Big)\Big)\}$$

$$\{X47,\ X(110)\text{-BETH CONJUGATE OF }X(34),\ X58,$$
$$\text{ISOGONAL CONJUGATE OF }X(10),\ \frac{16r^2R^3(r+R)^2\left(2l^2r-6r^3+l^2R-19r^2R-16rR^2\right)}{\left(l^2-3r^2-4rR\right)^2\left(l^2-3r^2-6rR-2R^2\right)^2}\}$$

$$\{X47,\ X(110)\text{-BETH CONJUGATE OF }X(34),\ X59,\ \text{ISOGONAL CONJUGATE OF }X(11),$$
$$-\Big(\Big(r^2R^2\big(2l^6r+6l^4r^3+6l^2r^5+2r^7+l^6R-21l^4r^2R-61l^2r^4R+25r^6R-60l^4rR^2+32l^2r^3R^2+92r^5R^2-4l^4R^3+424l^2r^2R^3-4r^4R^3+304l^2rR^4-640r^3R^4-12l^2R^5-1084r^2R^5-480rR^6+64R^7\big)\Big)\Big/\Big((2r-R)\big(-l^2+3r^2+6rR+2R^2\big)^2\big(-l^2+r^2+5rR+4R^2\big)^2\Big)\Big)\}$$

$$\{X47,\ X(110)\text{-BETH CONJUGATE OF }X(34),\ X60,\ \text{ISOGONAL CONJUGATE OF }X(12),$$
$$-\frac{1}{\left(l^2-3r^2-6rR-2R^2\right)^2\left(2l^2r-2r^3+l^2R-7r^2R-7rR^2\right)^2}$$
$$r^2R^2\big(4l^6r^2+12l^4r^4+12l^2r^6+4r^8-16l^6rR+64l^4r^3R+16l^2r^5R+64r^7R-5l^6R^2+129l^4r^2R^2-175l^2r^4R^2+395r^6R^2+148l^4rR^3-624l^2r^3R^3+1308r^5R^3+20l^4R^4-824l^2r^2R^4+2564r^4R^4-472l^2rR^5+3000r^3R^5-36l^2R^6+1964r^2R^6+576rR^7\big)\}$$

$$\{X47,\ X(110)\text{-BETH CONJUGATE OF }X(34),\ X61,\ \text{ISOGONAL CONJUGATE OF }X(17),$$
$$-\frac{1}{\left(3l^2+2\sqrt{3}\,lr-3r^2-12rR\right)^2\left(l^2-3r^2-6rR-2R^2\right)^2}12r^2R^2$$
$$\big(-l^6-4\sqrt{3}\,l^5r+l^4r^2+24\sqrt{3}\,l^3r^3+37l^2r^4-4\sqrt{3}\,lr^5+3r^6-2\sqrt{3}\,l^5R+2l^4rR+44\sqrt{3}\,l^3r^2R+60l^2r^3R-34\sqrt{3}\,lr^4R+42r^5R+4l^4R^2+36\sqrt{3}\,l^3rR^2-4l^2r^2R^2-92\sqrt{3}\,lr^3R^2+216r^4R^2+4\sqrt{3}\,l^3R^3-52l^2rR^3-92\sqrt{3}\,lr^2R^3+492r^3R^3-16l^2R^4-48\sqrt{3}\,lrR^4+480r^2R^4+192rR^5\big)\}$$

$$\left\{X47,\ X(110)\text{-BETH CONJUGATE OF }X(34),\ X62,\ \text{ISOGONAL CONJUGATE OF }X(18),\right.$$
$$-\frac{1}{\left(3 l^2-2\sqrt{3}\, l r-3 r^2-12 r R\right)^2\left(l^2-3 r^2-6 r R-2 R^2\right)^2}12 r^2 R^2$$
$$\left(-l^6+4\sqrt{3}\, l^5 r+l^4 r^2-24\sqrt{3}\, l^3 r^3+37 l^2 r^4+4\sqrt{3}\, l r^5+3 r^6+2\sqrt{3}\, l^5 R+2 l^4 r R-44\sqrt{3}\, l^3 r^2 R+\right.$$
$$60 l^2 r^3 R+34\sqrt{3}\, l r^4 R+42 r^5 R+4 l^4 R^2-36\sqrt{3}\, l^3 r R^2-4 l^2 r^2 R^2+92\sqrt{3}\, l r^3 R^2+216 r^4 R^2-$$
$$\left.\left.4\sqrt{3}\, l^3 R^3-52 l^2 r R^3+92\sqrt{3}\, l r^2 R^3+492 r^3 R^3-16 l^2 R^4+48\sqrt{3}\, l r R^4+480 r^2 R^4+192 r R^5\right)\right\}$$

$$\left\{X47,\ X(110)\text{-BETH CONJUGATE OF }X(34),\ X63,\ \text{ISOGONAL CONJUGATE OF }X(19),\right.$$
$$\left.-\frac{R\left(-l^2+r^2+4 r R+2 R^2\right)^2\left(-2 l^2 r+6 r^3-l^2 R+19 r^2 R+16 r R^2\right)}{(r+R)^2\left(-l^2+3 r^2+6 r R+2 R^2\right)^2}\right\}$$

$$\left\{X47,\ X(110)\text{-BETH CONJUGATE OF }X(34),\ X64,\right.$$
$$\text{ISOGONAL CONJUGATE OF }X(20),\ \frac{1}{(l-r-2R)^2(l+r+2R)^2\left(l^2-3r^2-6rR-2R^2\right)^2}$$
$$4 R^2\left(3 l^8-22 l^6 r^2+51 l^4 r^4-48 l^2 r^6+20 r^8-58 l^6 r R+304 l^4 r^3 R-466 l^2 r^5 R+244 r^7 R-40 l^6 R^2+\right.$$
$$656 l^4 r^2 R^2-1812 l^2 r^4 R^2+1320 r^6 R^2+596 l^4 r R^3-3580 l^2 r^3 R^3+4064 r^5 R^3+188 l^4 R^4-$$
$$\left.\left.3740 l^2 r^2 R^4+7620 r^4 R^4-1920 l^2 r R^5+8688 r^3 R^5-368 l^2 R^6+5712 r^2 R^6+1920 r R^7+256 R^8\right)\right\}$$

$$\left\{X47,\ X(110)\text{-BETH CONJUGATE OF }X(34),\ X65,\ \text{ORTHOCENTER OF THE INTOUCH TRIANGLE},\right.$$
$$\left(r^2\left(-2 l^4 r+12 l^2 r^3-18 r^5-l^4 R+38 l^2 r^2 R-105 r^4 R+36 l^2 r R^2-\right.\right.$$
$$\left.\left.\left.228 r^3 R^2+4 l^2 R^3-224 r^2 R^3-88 r R^4+4 R^5\right)\right)\Big/\left(R\left(-l^2+3 r^2+6 r R+2 R^2\right)^2\right)\right\}$$

$$\left\{X47,\ X(110)\text{-BETH CONJUGATE OF }X(34),\ X66,\ \text{ISOGONAL CONJUGATE OF }X(22),\right.$$
$$\left(10 l^{12} r^2-80 l^{10} r^4+242 l^8 r^6-352 l^6 r^8+254 l^4 r^{10}-80 l^2 r^{12}+6 r^{14}-240 l^{10} r^3 R+1520 l^8 r^5 R-\right.$$
$$3456 l^6 r^7 R+3456 l^4 r^9 R-1424 l^2 r^{11} R+144 r^{13} R-l^{12} R^2-122 l^{10} r^2 R^2+3137 l^8 r^4 R^2-$$
$$12972 l^6 r^6 R^2+19297 l^4 r^8 R^2-10842 l^2 r^{10} R^2+1503 r^{12} R^2+32 l^{10} r R^3+2328 l^8 r^3 R^3-$$
$$23328 l^6 r^5 R^3+57072 l^4 r^7 R^3-46080 l^2 r^9 R^3+8952 r^{11} R^3+8 l^{10} R^4+204 l^8 r^2 R^4-20096 l^6 r^4 R^4+$$
$$95896 l^4 r^6 R^4-119560 l^2 r^8 R^4+33564 r^{10} R^4-224 l^8 r R^5-6240 l^6 r^3 R^5+90080 l^4 r^5 R^5-$$
$$194208 l^2 r^7 R^5+82432 r^9 R^5-20 l^8 R^6+816 l^6 r^2 R^6+41448 l^4 r^4 R^6-193808 l^2 r^6 R^6+133708 r^8 R^6+$$
$$480 l^6 r R^7+4416 l^4 r^3 R^7-109920 l^2 r^5 R^7+140736 r^7 R^7+16 l^6 R^8-2096 l^4 r^2 R^8-27600 l^2 r^4 R^8+$$
$$\left.91312 r^6 R^8-320 l^4 r R^9+896 l^2 r^3 R^9+32064 r^5 R^9+1088 l^2 r^2 R^{10}+3328 r^4 R^{10}-1024 r^3 R^{11}\right)\Big/$$
$$\left.\left((l-r-2R)^2(l+r+2R)^2\left(l^2-r^2-4rR\right)^2\left(l^2-3r^2-6rR-2R^2\right)^2\right)\right\}$$

$$\left\{X47,\ X(110)\text{-BETH CONJUGATE OF }X(34),\ X67,\ \text{ISOGONAL CONJUGATE OF }X(23),\right.$$
$$\left(l^{12}+14 l^{10} r^2-133 l^8 r^4+356 l^6 r^6-377 l^4 r^8+142 l^2 r^{10}-3 r^{12}-28 l^{10} r R-252 l^8 r^3 R+1848 l^6 r^5 R-\right.$$
$$3272 l^4 r^7 R+1764 l^2 r^9 R-60 r^{11} R-8 l^{10} R^2+112 l^8 r^2 R^2+2904 l^6 r^4 R^2-10744 l^4 r^6 R^2+$$
$$9008 l^2 r^8 R^2-504 r^{10} R^2+196 l^8 r R^3+1040 l^6 r^3 R^3-16568 l^4 r^5 R^3+24432 l^2 r^7 R^3-$$
$$2316 r^9 R^3+20 l^8 R^4-888 l^6 r^2 R^4-11372 l^4 r^4 R^4+37744 l^2 r^6 R^4-6384 r^8 R^4-424 l^6 r R^5-$$
$$1456 l^4 r^3 R^5+32600 l^2 r^5 R^5-10976 r^7 R^5-16 l^6 R^6+1440 l^4 r^2 R^6+13664 l^2 r^4 R^6-$$
$$\left.11936 r^6 R^6+288 l^4 r R^7+1072 l^2 r^3 R^7-7920 r^5 R^7-528 l^2 r^2 R^8-2432 r^4 R^8+256 r^3 R^9\right)\Big/$$
$$\left.\left(\left(l^2-r^2-4rR\right)^2\left(2l^2-2r^2-8rR-9R^2\right)\left(l^2-3r^2-6rR-2R^2\right)^2\right)\right\}$$

$$\left\{X47,\ X(110)\text{-BETH CONJUGATE OF }X(34),\ X68,\right.$$
$$\text{PRASOLOV POINT},\ \frac{1}{(l-r-2R)^2(l+r+2R)^2\left(l^2-3r^2-6rR-2R^2\right)^2}$$
$$\left(10 l^8 r^2-60 l^6 r^4+112 l^4 r^6-68 l^2 r^8+6 r^{10}-160 l^6 r^3 R+640 l^4 r^5 R-640 l^2 r^7 R+96 r^9 R+l^8 R^2-\right.$$
$$132 l^6 r^2 R^2+1446 l^4 r^4 R^2-2564 l^2 r^6 R^2+657 r^8 R^2-16 l^6 r R^3+1528 l^4 r^3 R^3-5536 l^2 r^5 R^3+$$
$$2520 r^7 R^3-8 l^6 R^4+692 l^4 r^2 R^4-6800 l^2 r^4 R^4+5940 r^6 R^4+88 l^4 r R^5-4592 l^2 r^3 R^5+8824 r^5 R^5+$$
$$\left.\left.24 l^4 R^6-1472 l^2 r^2 R^6+8104 r^4 R^6-160 l^2 r R^7+4288 r^3 R^7-32 l^2 R^8+1104 r^2 R^8+96 r R^9+16 R^{10}\right)\right\}$$

$$\Big\{X47,\ X(110)\text{-BETH CONJUGATE OF }X(34),\ X69,$$

$$\text{SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},\ \frac{1}{\left(l^2-r^2-4\,r\,R\right)^2\left(l^2-3\,r^2-6\,r\,R-2\,R^2\right)^2}$$

$$\Big(l^{10}+5\,l^8\,r^2-58\,l^6\,r^4+126\,l^4\,r^6-71\,l^2\,r^8-3\,r^{10}-24\,l^8\,r\,R-56\,l^6\,r^3\,R+520\,l^4\,r^5\,R-520\,l^2\,r^7\,R-48\,r^9\,R-4\,l^8\,R^2+104\,l^6\,r^2\,R^2+688\,l^4\,r^4\,R^2-1576\,l^2\,r^6\,R^2-300\,r^8\,R^2+80\,l^6\,r\,R^3+240\,l^4\,r^3\,R^3-2480\,l^2\,r^5\,R^3-912\,r^7\,R^3+4\,l^6\,R^4-196\,l^4\,r^2\,R^4-1988\,l^2\,r^4\,R^4-1340\,r^6\,R^4-64\,l^4\,r\,R^5-608\,l^2\,r^3\,R^5-736\,r^5\,R^5+64\,r^4\,R^6\Big)\Big\}$$

$$\Big\{X47,\ X(110)\text{-BETH CONJUGATE OF }X(34),\ X70,\ \text{ISOGONAL CONJUGATE OF }X(26),$$

$$\Big(10\,l^{12}\,r^2-80\,l^{10}\,r^4+242\,l^8\,r^6-352\,l^6\,r^8+254\,l^4\,r^{10}-80\,l^2\,r^{12}+6\,r^{14}-240\,l^{10}\,r^3\,R+1520\,l^8\,r^5\,R-3456\,l^6\,r^7\,R+3456\,l^4\,r^9\,R-1424\,l^2\,r^{11}\,R+144\,r^{13}\,R-168\,l^{10}\,r^2\,R^2+3424\,l^8\,r^4\,R^2-13\,648\,l^6\,r^6\,R^2+20\,000\,l^4\,r^8\,R^2-11\,144\,l^2\,r^{10}\,R^2+1536\,r^{12}\,R^2+4\,l^{10}\,r\,R^3+3276\,l^8\,r^3\,R^3-27\,720\,l^6\,r^5\,R^3+64\,168\,l^4\,r^7\,R^3-50\,364\,l^2\,r^9\,R^3+9612\,r^{11}\,R^3-l^{10}\,R^4+1065\,l^8\,r^2\,R^4-30\,362\,l^6\,r^4\,R^4+124\,434\,l^4\,r^6\,R^4-145\,125\,l^2\,r^8\,R^4+39\,237\,r^{10}\,R^4-28\,l^8\,r\,R^5-16\,728\,l^6\,r^3\,R^5+148\,592\,l^4\,r^5\,R^5-277\,640\,l^2\,r^7\,R^5+109\,900\,r^9\,R^5+10\,l^8\,R^6-3408\,l^6\,r^2\,R^6+105\,804\,l^4\,r^4\,R^6-355\,728\,l^2\,r^6\,R^6+216\,266\,r^8\,R^6+60\,l^6\,r\,R^7+40\,300\,l^4\,r^3\,R^7-299\,868\,l^2\,r^5\,R^7+300\,852\,r^7\,R^7-37\,l^6\,R^8+5921\,l^4\,r^2\,R^8-157\,791\,l^2\,r^4\,R^8+293\,147\,r^6\,R^8-36\,l^4\,r\,R^9-45\,872\,l^2\,r^3\,R^9+194\,452\,r^5\,R^9+64\,l^4\,R^{10}-5288\,l^2\,r^2\,R^{10}+82\,568\,r^4\,R^{10}-16\,l^2\,r\,R^{11}+19\,648\,r^3\,R^{11}-52\,l^2\,R^{12}+1884\,r^2\,R^{12}+16\,r\,R^{13}+16\,R^{14}\Big)\Big/\Big(\left(l^2-3\,r^2-6\,r\,R-2\,R^2\right)^2\left(l^4-2\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-6\,l^2\,R^2+22\,r^2\,R^2+24\,r\,R^3+7\,R^4\right)^2\Big)\Big\}$$

$$\Big\{X47,\ X(110)\text{-BETH CONJUGATE OF }X(34),\ X71,$$

$$\text{ISOGONAL CONJUGATE OF }X(27),\ \frac{1}{\left(l^2-3\,r^2-6\,r\,R-2\,R^2\right)^2\left(l^2+r^2+6\,r\,R+8\,R^2\right)^2}$$

$$4\,R^2\Big(3\,l^8-20\,l^6\,r^2+30\,l^4\,r^4-12\,l^2\,r^6-r^8-38\,l^6\,r\,R+114\,l^4\,r^3\,R-58\,l^2\,r^5\,R-18\,r^7\,R-8\,l^6\,R^2+124\,l^4\,r^2\,R^2-48\,l^2\,r^4\,R^2-132\,r^6\,R^2+28\,l^4\,r\,R^3+176\,l^2\,r^3\,R^3-508\,r^5\,R^3-4\,l^4\,R^4+380\,l^2\,r^2\,R^4-1104\,r^4\,R^4+224\,l^2\,r\,R^5-1360\,r^3\,R^5+16\,l^2\,R^6-896\,r^2\,R^6-256\,r\,R^7\Big)\Big\}$$

$$\Big\{X47,\ X(110)\text{-BETH CONJUGATE OF }X(34),\ X72,\ \text{ISOGONAL CONJUGATE OF }X(28),$$

$$-\Big(\Big(-l^6\,r+7\,l^4\,r^3-15\,l^2\,r^5+9\,r^7-l^6\,R+20\,l^4\,r^2\,R-77\,l^2\,r^4\,R+78\,r^6\,R+28\,l^4\,r\,R^2-184\,l^2\,r^3\,R^2+276\,r^5\,R^2+4\,l^4\,R^3-200\,l^2\,r^2\,R^3+512\,r^4\,R^3-84\,l^2\,r\,R^4+532\,r^3\,R^4-4\,l^2\,R^5+288\,r^2\,R^5+64\,r\,R^6\Big)\Big/\Big(R\left(-l^2+3\,r^2+6\,r\,R+2\,R^2\right)^2\Big)\Big)\Big\}$$

$$\Big\{X47,\ X(110)\text{-BETH CONJUGATE OF }X(34),\ X73,\ \text{CROSSPOINT OF INCENTER AND CIRCUMCENTER},$$

$$\Big(16\,r^2\,R^2\Big(l^4\,r^2-10\,l^2\,r^4+5\,r^6+l^4\,r\,R-26\,l^2\,r^3\,R+37\,r^5\,R-16\,l^2\,r^2\,R^2+100\,r^4\,R^2+108\,r^3\,R^3-l^2\,R^4+27\,r^2\,R^4-12\,r\,R^5+4\,R^6\Big)\Big)\Big/\Big(\left(l^2+r^2-2\,r\,R-4\,R^2\right)^2\left(l^2-3\,r^2-6\,r\,R-2\,R^2\right)^2\Big)\Big\}$$

$$\Big\{X47,\ X(110)\text{-BETH CONJUGATE OF }X(34),\ X74,\ \text{ISOGONAL CONJUGATE OF EULER INFINITY POINT},$$

$$\Big(R^2\Big(9\,l^6-69\,l^4\,r^2+123\,l^2\,r^4-55\,r^6-132\,l^4\,r\,R+592\,l^2\,r^3\,R-460\,r^5\,R-72\,l^4\,R^2+1032\,l^2\,r^2\,R^2-1568\,r^4\,R^2+720\,l^2\,r\,R^3-2688\,r^3\,R^3+180\,l^2\,R^4-2332\,r^2\,R^4-912\,r\,R^5-144\,R^6\Big)\Big)\Big/\Big(\left(2\,l^2-2\,r^2-8\,r\,R-9\,R^2\right)\left(l^2-3\,r^2-6\,r\,R-2\,R^2\right)^2\Big)\Big\}$$

$$\Big\{X47,\ X(110)\text{-BETH CONJUGATE OF }X(34),\ X75,$$

$$\text{ISOTOMIC CONJUGATE OF INCENTER},\ \frac{1}{\left(l^2+r^2+4\,r\,R\right)^2\left(l^2-3\,r^2-6\,r\,R-2\,R^2\right)^2}$$

$$\Big(l^{10}+l^8\,r^2-6\,l^6\,r^4-14\,l^4\,r^6-11\,l^2\,r^8-3\,r^{10}-24\,l^8\,r\,R+72\,l^6\,r^3\,R-216\,l^4\,r^5\,R+152\,l^2\,r^7\,R-48\,r^9\,R-4\,l^8\,R^2+152\,l^6\,r^2\,R^2-688\,l^4\,r^4\,R^2+1160\,l^2\,r^6\,R^2-300\,r^8\,R^2+80\,l^6\,r\,R^3-752\,l^4\,r^3\,R^3+2480\,l^2\,r^5\,R^3-912\,r^7\,R^3+4\,l^6\,R^4-276\,l^4\,r^2\,R^4+2028\,l^2\,r^4\,R^4-1340\,r^6\,R^4-64\,l^4\,r\,R^5+608\,l^2\,r^3\,R^5-736\,r^5\,R^5+64\,r^4\,R^6\Big)\Big\}$$

$$\{X47,\ X(110)\text{-BETH CONJUGATE OF } X(34),\ X76,\ \text{3rd BROCARD POINT},$$
$$\left(l^{14}+3 l^{12} r^2-3 l^{10} r^4-25 l^8 r^6-45 l^6 r^8-39 l^4 r^{10}-17 l^2 r^{12}-3 r^{14}-32 l^{12} r R-40 l^{10} r^3 R+88 l^8 r^5 R+112 l^6 r^7 R-112 l^4 r^9 R-200 l^2 r^{11} R-72 r^{13} R-4 l^{12} R^2+320 l^{10} r^2 R^2+396 l^8 r^4 R^2-1760 l^6 r^6 R^2+2004 l^4 r^8 R^2-992 l^2 r^{10} R^2-732 r^{12} R^2+112 l^{10} r R^3-1136 l^8 r^3 R^3-3936 l^6 r^5 R^3+10336 l^4 r^7 R^3-3344 l^2 r^9 R^3-4080 r^{11} R^3+4 l^{10} R^4-908 l^8 r^2 R^4-888 l^6 r^4 R^4+19272 l^4 r^6 R^4-9548 l^2 r^8 R^4-13436 r^{10} R^4-96 l^8 r R^5+2336 l^6 r^3 R^5+14752 l^4 r^5 R^5-18848 l^2 r^7 R^5-26048 r^9 R^5+576 l^6 r^2 R^6+1536 l^4 r^4 R^6-20160 l^2 r^6 R^6-27264 r^8 R^6-1024 l^4 r^3 R^7-9216 l^2 r^5 R^7-11264 r^7 R^7+1024 r^6 R^8\right)\Big/\left(\left(l^2-3 r^2-6 r R-2 R^2\right)^2\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)^2\right)\}$$

$$\{X47,\ X(110)\text{-BETH CONJUGATE OF } X(34),\ X77,\ \text{ISOGONAL CONJUGATE OF } X(33),$$
$$\left(r^2 R\left(4 l^6 r-16 l^4 r^3+12 l^2 r^5+5 l^6 R-77 l^4 r^2 R+91 l^2 r^4 R-3 r^6 R-112 l^4 r R^2+336 l^2 r^3 R^2-48 r^5 R^2-28 l^4 R^3+664 l^2 r^2 R^3-300 r^4 R^3+544 l^2 r R^4-912 r^3 R^4+20 l^2 R^5-1340 r^2 R^5-736 r R^6+64 R^7\right)\right)\Big/\left(\left(l^2-r R-4 R^2\right)^2\left(l^2-3 r^2-6 r R-2 R^2\right)^2\right)\}$$

$$\{X47,\ X(110)\text{-BETH CONJUGATE OF } X(34),\ X78,\ \text{ISOGONAL CONJUGATE OF } X(34),$$
$$-\left(\left(R\left(4 l^4 r^3-16 l^2 r^5+12 r^7-l^6 R+l^4 r^2 R-31 l^2 r^4 R+79 r^6 R+24 l^4 r R^2-96 l^2 r^3 R^2+216 r^5 R^2+4 l^4 R^3-136 l^2 r^2 R^3+340 r^4 R^3-80 l^2 r R^4+384 r^3 R^4-4 l^2 R^5+236 r^2 R^5+64 r R^6\right)\right)\Big/\left((r-R)^2\left(-l^2+3 r^2+6 r R+2 R^2\right)^2\right)\right)\}$$

$$\{X47,\ X(110)\text{-BETH CONJUGATE OF } X(34),\ X79,\ \text{ISOGONAL CONJUGATE OF } X(35),$$
$$\left(4 r^2\left(-2 l^6+18 l^4 r^2-38 l^2 r^4+6 r^6+36 l^4 r R-160 l^2 r^3 R+60 r^5 R+14 l^4 R^2-244 l^2 r^2 R^2+222 r^4 R^2-154 l^2 r R^3+374 r^3 R^3-29 l^2 R^4+295 r^2 R^4+116 r R^5+36 R^6\right)\right)\Big/\left((2 r+3 R)^2\left(-l^2+3 r^2+6 r R+2 R^2\right)^2\right)\}$$

$$\{X47,\ X(110)\text{-BETH CONJUGATE OF } X(34),\ X80,\ \text{REFLECTION OF INCENTER IN FEUERBACH POINT},$$
$$\frac{4 r^2\left(4 l^4 r-16 l^2 r^3+12 r^5-40 l^2 r^2 R+72 r^4 R-28 l^2 r R^2+156 r^3 R^2+l^2 R^3+141 r^2 R^3+44 r R^4-4 R^5\right)}{(2 r-R)\left(-l^2+3 r^2+6 r R+2 R^2\right)^2}\}$$

$$\{X47,\ X(110)\text{-BETH CONJUGATE OF } X(34),\ X81,\ \text{CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},$$
$$\frac{r^2 R\left(l^2+r^2+4 r R+2 R^2\right)^2\left(2 l^2 r-6 r^3+l^2 R-19 r^2 R-16 r R^2\right)}{\left(l^2-r^2-r R\right)^2\left(l^2-3 r^2-6 r R-2 R^2\right)^2}\}$$

$$\{X47,\ X(110)\text{-BETH CONJUGATE OF } X(34),\ X82,\ \text{ISOGONAL CONJUGATE OF } X(38),$$
$$\left(r^2 R^2\left(l^{10}+l^8 r^2-6 l^6 r^4-14 l^4 r^6-11 l^2 r^8-3 r^{10}-16 l^8 r R+56 l^6 r^3 R-248 l^4 r^5 R+168 l^2 r^7 R-24 r^9 R+4 l^8 R^2-8 l^6 r^2 R^2-416 l^4 r^4 R^2+936 l^2 r^6 R^2+60 r^8 R^2-96 l^6 r R^3+448 l^4 r^3 R^3+480 l^2 r^5 R^3+1088 r^7 R^3+4 l^6 R^4+588 l^4 r^2 R^4-1620 l^2 r^4 R^4+3492 r^6 R^4-128 l^4 r R^5-96 l^2 r^3 R^5+3104 r^5 R^5+1280 l^2 r^2 R^6-2496 r^4 R^6-4096 r^3 R^7\right)\right)\Big/\left(\left(l^2-3 r^2-6 r R-2 R^2\right)^2\left(l^4-4 l^2 r^2+3 r^4-9 l^2 r R+19 r^3 R+28 r^2 R^2\right)^2\right)\}$$

$$\{X47,\ X(110)\text{-BETH CONJUGATE OF } X(34),\ X83,\ \text{CEVAPOINT OF CENTROID AND SYMMEDIAN POINT},$$
$$\left(l^{14}+11 l^{12} r^2-3 l^{10} r^4-81 l^8 r^6-109 l^6 r^8-15 l^4 r^{10}+47 l^2 r^{12}+21 r^{14}-32 l^{12} r R-232 l^{10} r^3 R+280 l^8 r^5 R+368 l^6 r^7 R-368 l^4 r^9 R+248 l^2 r^{11} R+504 r^{13} R-4 l^{12} R^2+352 l^{10} r^2 R^2+1804 l^8 r^4 R^2-4192 l^6 r^6 R^2+2964 l^4 r^8 R^2-2688 l^2 r^{10} R^2+5092 r^{12} R^2+144 l^{10} r R^3-1904 l^8 r^3 R^3-8288 l^6 r^5 R^3+23712 l^4 r^7 R^3-26160 l^2 r^9 R^3+27856 r^{11} R^3+4 l^{10} R^4-1900 l^8 r^2 R^4+6024 l^6 r^4 R^4+30216 l^4 r^6 R^4-77388 l^2 r^8 R^4+87716 r^{10} R^4-160 l^8 r R^5+12512 l^6 r^3 R^5-15136 l^4 r^5 R^5-75104 l^2 r^7 R^5+152384 r^9 R^5+2368 l^6 r^2 R^6-47104 l^4 r^4 R^6+36928 l^2 r^6 R^6+110976 r^8 R^6-16384 l^4 r^3 R^7+108544 l^2 r^5 R^7-44032 r^7 R^7+53248 l^2 r^4 R^8-121856 r^6 R^8-65536 r^5 R^9\right)\Big/\left(\left(l^2-3 r^2-6 r R-2 R^2\right)^2\left(5 l^4-6 l^2 r^2+5 r^4-40 l^2 r R+40 r^3 R+80 r^2 R^2\right)^2\right)\}$$

$$\{X47,\ X(110)\text{-BETH CONJUGATE OF } X(34),\ X84,\ \text{ISOGONAL CONJUGATE OF } X(40),$$
$$-\left(\left(4 R\left(-l^6 r+4 l^4 r^3-3 l^2 r^5+l^6 R+8 l^4 r^2 R-20 l^2 r^4 R+r^6 R-8 l^4 r R^2-22 l^2 r^3 R^2+6 r^5 R^2-8 l^4 R^3+40 l^2 r^2 R^3-16 r^4 R^3+68 l^2 r R^4-116 r^3 R^4+20 l^2 R^5-184 r^2 R^5-96 r R^6-16 R^7\right)\right)\Big/\left(r^2\left(-l^2+3 r^2+6 r R+2 R^2\right)^2\right)\right)\}$$

$$\left\{X47,\ X(110)\text{-BETH CONJUGATE OF }X(34),\ X85,\ \text{ISOTOMIC CONJUGATE OF }X(9),\ \frac{1}{\left(l^2-3r^2-6rR-2R^2\right)^2\left(l^2+r^2+8rR+16R^2\right)^2}\right.$$
$$\left(l^{10}+l^8r^2-6l^6r^4-14l^4r^6-11l^2r^8-3r^{10}-32l^8rR+152l^6r^3R-312l^4r^5R-56l^2r^7R-72r^9R-4l^8R^2+360l^6r^2R^2-1344l^4r^4R^2+376l^2r^6R^2-732r^8R^2+176l^6rR^3-2512l^4r^3R^3+3344l^2r^5R^3-4080r^7R^3+4l^6R^4-2068l^4r^2R^4+8620l^2r^4R^4-13436r^6R^4-224l^4rR^5+8800l^2r^3R^5-26048r^5R^5+2752l^2r^2R^6-27264r^4R^6-11264r^3R^7+1024r^2R^8\right)\Big\}$$

$$\left\{X47,\ X(110)\text{-BETH CONJUGATE OF }X(34),\ X86,\ \text{CEVAPOINT OF INCENTER AND CENTROID},\ \frac{1}{\left(5l^2+r^2+4rR\right)^2\left(l^2-3r^2-6rR-2R^2\right)^2}\right.$$
$$\left(l^{10}+17l^8r^2-22l^6r^4-94l^4r^6-59l^2r^8-3r^{10}-8l^8rR-40l^6r^3R-360l^4r^5R-376l^2r^7R-48r^9R-4l^8R^2-136l^6r^2R^2-496l^4r^4R^2-920l^2r^6R^2-300r^8R^2+48l^6rR^3-304l^4r^3R^3-1008l^2r^5R^3-912r^7R^3+4l^6R^4+236l^4r^2R^4-148l^2r^4R^4-1340r^6R^4-64l^4rR^5+608l^2r^3R^5-736r^5R^5+64r^4R^6\right)\Big\}$$

$$\left\{X47,\ X(110)\text{-BETH CONJUGATE OF }X(34),\ X87,\ X(2)\text{-CROSS CONJUGATE OF }X(1),\right.$$
$$-\left(\left(4r^2R\left(2l^{10}r+2l^8r^3-12l^6r^5-28l^4r^7-22l^2r^9-6r^{11}-l^{10}R-49l^8r^2R+38l^6r^4R+142l^4r^6R-21l^2r^8R-77r^{10}R+8l^8rR^2+208l^6r^3R^2+64l^4r^5R^2-464l^2r^7R^2-328r^9R^2+8l^8R^3+176l^6r^2R^3-480l^4r^4R^3-944l^2r^6R^3-296r^8R^3-160l^6rR^4-288l^4r^3R^4-352l^2r^5R^4+1824r^7R^4-16l^6R^5+656l^4r^2R^5-1456l^2r^4R^5+7088r^6R^5+384l^4rR^6-3584l^2r^3R^6+12416r^5R^6-2304l^2r^2R^7+11008r^4R^7+4096r^3R^8\right)\right)\Big/\left(\left(l^2-3r^2-6rR-2R^2\right)^2\left(l^4+2l^2r^2+r^4-20l^2rR+12r^3R+32r^2R^2\right)^2\right)\right)\Big\}$$

$$\left\{X47,\ X(110)\text{-BETH CONJUGATE OF }X(34),\ X88,\ \text{ISOGONAL CONJUGATE OF }X(44),\right.$$
$$-\left(\left(r^2R\left(10l^6r+54l^4r^3-306l^2r^5+162r^7-l^6R-191l^4r^2R-219l^2r^4R+1251r^6R-80l^4rR^2-144l^2r^3R^2+2880r^5R^2+12l^4R^3+1800l^2r^2R^3+1404r^4R^3+24l^2rR^4-2088r^3R^4-36l^2R^5-3636r^2R^5+576rR^6\right)\right)\Big/\left(\left(l^2+3r^2-15rR\right)^2\left(l^2-3r^2-6rR-2R^2\right)^2\right)\right)\Big\}$$

$$\left\{X47,\ X(110)\text{-BETH CONJUGATE OF }X(34),\ X89,\ \text{ISOGONAL CONJUGATE OF }X(45),\right.$$
$$-\left(\left(r^2R\left(4l^6r+12l^4r^3-180l^2r^5+324r^7-l^6R-59l^4r^2R-915l^2r^4R+3303r^6R-32l^4rR^2-2088l^2r^3R^2+12600r^5R^2-12l^4R^3-720l^2r^2R^3+22572r^4R^3-240l^2rR^4+19296r^3R^4-36l^2R^5+5868r^2R^5+576rR^6\right)\right)\Big/\left(\left(2l^2-6r^2+3rR\right)^2\left(l^2-3r^2-6rR-2R^2\right)^2\right)\right)\Big\}$$

$$\left\{X47,\ X(110)\text{-BETH CONJUGATE OF }X(34),\ X90,\ X(3)\text{-CROSS CONJUGATE OF }X(1),\right.$$
$$\left(4r^2R\left(l^6r-4l^4r^3+3l^2r^5-10l^4r^2R+17l^2r^4R-r^6R-11l^4rR^2+52l^2r^3R^2-13r^5R^2+76l^2r^2R^3-64r^4R^3+44l^2rR^4-148r^3R^4-l^2R^5-157r^2R^5-60rR^6+4R^7\right)\right)\Big/\left(\left(l^2-3r^2-6rR-2R^2\right)^2\left(r^2+2rR-R^2\right)^2\right)\Big\}$$

$$\left\{X47,\ X(110)\text{-BETH CONJUGATE OF }X(34),\ X91,\ \text{ISOGONAL CONJUGATE OF }X(47),\right.$$
$$\frac{1}{\left(l^2-3r^2-6rR-2R^2\right)^2\left(l^2r+r^3-l^2R+3r^2R+2rR^2+2R^3\right)^2}$$
$$r^2\left(l^{10}+l^8r^2-6l^6r^4-14l^4r^6-11l^2r^8-3r^{10}-32l^8rR+88l^6r^3R-184l^4r^5R+136l^2r^7R-72r^9R-12l^8R^2+312l^6r^2R^2-960l^4r^4R^2+1384l^2r^6R^2-660r^8R^2+336l^6rR^3-2288l^4r^3R^3+4848l^2r^5R^3-3152r^7R^3+52l^6R^4-2564l^4r^2R^4+9212l^2r^4R^4-8844r^6R^4-1248l^4rR^5+10400l^2r^3R^5-15488r^5R^5-96l^4R^6+6592l^2r^2R^6-17440r^4R^6+1920l^2rR^7-12544r^3R^7+64l^2R^8-5312r^2R^8-1024rR^9\right)\Big\}$$

$$\Big\{X47,\ X(110)\text{-BETH CONJUGATE OF } X(34),\ X92,$$

$$\text{CEVAPOINT OF INCENTER AND CLAWSON POINT},\ \frac{1}{\left(l^2+r^2-4R^2\right)^2\left(l^2-3r^2-6rR-2R^2\right)^2}$$

$$\big(l^{10}+l^8r^2-6l^6r^4-14l^4r^6-11l^2r^8-3r^{10}-32l^8rR+88l^6r^3R-184l^4r^5R+136l^2r^7R-72r^9R-12l^8R^2+312l^6r^2R^2-960l^4r^4R^2+1384l^2r^6R^2-660r^8R^2+336l^6rR^3-2288l^4r^3R^3+4848l^2r^5R^3-3152r^7R^3+52l^6R^4-2564l^4r^2R^4+9212l^2r^4R^4-8844r^6R^4-1248l^4rR^5+10400l^2r^3R^5-15488r^5R^5-96l^4R^6+6592l^2r^2R^6-17440r^4R^6+1920l^2rR^7-12544r^3R^7+64l^2R^8-5312r^2R^8-1024rR^9\big)\Big\}$$

$$\Big\{X47,\ X(110)\text{-BETH CONJUGATE OF } X(34),\ X93,\ \text{ISOGONAL CONJUGATE OF } X(49),$$

$$\big(l^{14}+3l^{12}r^2-3l^{10}r^4-25l^8r^6-45l^6r^8-39l^4r^{10}-17l^2r^{12}-3r^{14}-32l^{12}rR-40l^{10}r^3R+88l^8r^5R+112l^6r^7R-112l^4r^9R-200l^2r^{11}R-72r^{13}R-14l^{12}R^2+264l^{10}r^2R^2+650l^8r^4R^2-1536l^6r^6R^2+1510l^4r^8R^2-1416l^2r^{10}R^2-738r^{12}R^2+392l^{10}rR^3-296l^8r^3R^3-7824l^6r^5R^3+13328l^4r^7R^3-8312l^2r^9R^3-4200r^{11}R^3+76l^{10}R^4-2560l^8r^2R^4-10696l^6r^4R^4+46560l^4r^6R^4-36452l^2r^8R^4-14272r^{10}R^4-1848l^8rR^5-496l^6r^3R^5+80896l^4r^5R^5-107024l^2r^7R^5-27848r^9R^5-202l^8R^6+8164l^6r^2R^6+68056l^4r^4R^6-201316l^2r^6R^6-20878r^8R^6+4288l^6rR^7+16672l^4r^3R^7-232992l^2r^5R^7+35328r^7R^7+271l^6R^8-10299l^4r^2R^8-151987l^2r^4R^8+116375r^6R^8-5240l^4rR^9-41752l^2r^3R^9+143840r^5R^9-160l^4R^{10}+4048l^2r^2R^{10}+91680r^4R^{10}+3288l^2rR^{11}+26504r^3R^{11}+12l^2R^{12}+572r^2R^{12}-848rR^{13}+16R^{14}\big)\Big/\left(\left(l^2-3r^2-6rR-2R^2\right)^2\left(l^4+2l^2r^2+r^4-8l^2rR+8r^3R-8l^2R^2+24r^2R^2+32rR^3+13R^4\right)^2\right)\Big\}$$

$$\Big\{X47,\ X(110)\text{-BETH CONJUGATE OF } X(34),\ X94,\ \text{ISOGONAL CONJUGATE OF } X(50),$$

$$\big(l^{14}+3l^{12}r^2-3l^{10}r^4-25l^8r^6-45l^6r^8-39l^4r^{10}-17l^2r^{12}-3r^{14}-32l^{12}rR-40l^{10}r^3R+88l^8r^5R+112l^6r^7R-112l^4r^9R-200l^2r^{11}R-72r^{13}R-16l^{12}R^2+260l^{10}r^2R^2+660l^8r^4R^2-1496l^6r^6R^2+1560l^4r^8R^2-1388l^2r^{10}R^2-732r^{12}R^2+448l^{10}rR^3-272l^8r^3R^3-7968l^6r^5R^3+13312l^4r^7R^3-8096l^2r^9R^3-4080r^{11}R^3+106l^{10}R^4-3026l^8r^2R^4-10716l^6r^4R^4+46524l^4r^6R^4-35918l^2r^8R^4-13226r^{10}R^4-2592l^8rR^5+1568l^6r^3R^5+80992l^4r^5R^5-107552l^2r^7R^5-22592r^9R^5-372l^8R^6+13188l^6r^2R^6+64116l^4r^4R^6-206772l^2r^6R^6-3888r^8R^6+7968l^6rR^7+2912l^4r^3R^7-241728l^2r^5R^7+72448r^7R^7+729l^6R^8-28077l^4r^2R^8-149205l^2r^4R^8+171313r^6R^8-13824l^4rR^9-18840l^2r^3R^9+195240r^5R^9-756l^4R^{10}+29520l^2r^2R^{10}+114228r^4R^{10}+12960l^2rR^{11}+19728r^3R^{11}+324l^2R^{12}-12204r^2R^{12}-5184rR^{13}\big)\Big/\left(\left(l^2-3r^2-6rR-2R^2\right)^2\left(l^4+2l^2r^2+r^4-8l^2rR+8r^3R-12l^2R^2+28r^2R^2+48rR^3+27R^4\right)^2\right)\Big\}$$

$$\Big\{X47,\ X(110)\text{-BETH CONJUGATE OF } X(34),\ X95,\ \text{CEVAPOINT OF CENTROID AND CIRCUMCENTER},$$

$$\big(l^{14}+19l^{12}r^2+13l^{10}r^4-121l^8r^6-269l^6r^8-215l^4r^{10}-65l^2r^{12}-3r^{14}-32l^{12}rR-424l^{10}r^3R+216l^8r^5R+752l^6r^7R-752l^4r^9R-968l^2r^{11}R-72r^{13}R-12l^{12}R^2+160l^{10}r^2R^2+3332l^8r^4R^2-4896l^6r^6R^2+2684l^4r^8R^2-6400l^2r^{10}R^2-756r^{12}R^2+336l^{10}rR^3+1904l^8r^3R^3-15840l^6r^5R^3+21856l^4r^7R^3-24688l^2r^9R^3-4560r^{11}R^3+52l^{10}R^4-2140l^8r^2R^4-19352l^6r^4R^4+58536l^4r^6R^4-61532l^2r^8R^4-17420r^{10}R^4-1248l^8rR^5-2144l^6r^3R^5+73504l^4r^5R^5-104480l^2r^7R^5-43712r^9R^5-96l^8R^6+6144l^6r^2R^6+47360l^4r^4R^6-125056l^2r^6R^6-71968r^8R^6+1920l^6rR^7+4736l^4r^3R^7-104576l^2r^5R^7-74624r^7R^7+64l^6R^8-5184l^4r^2R^8-52800l^2r^4R^8-43456r^6R^8-1024l^4rR^9-9728l^2r^3R^9-9728r^5R^9+1024r^4R^{10}\big)\Big/\left(\left(l^2-3r^2-6rR-2R^2\right)^2\left(l^4+18l^2r^2+r^4-8l^2rR+8r^3R-4l^2R^2+20r^2R^2+16rR^3\right)^2\right)\Big\}$$

$$\{X47,\ X(110)\text{-BETH CONJUGATE OF } X(34),\ X96,\ \text{ISOGONAL CONJUGATE OF } X(52),$$
$$-\Big(\big(l^{14}-13 l^{12} r^2-19 l^{10} r^4+71 l^8 r^6+179 l^6 r^8+137 l^4 r^{10}+31 l^2 r^{12}-3 r^{14}-32 l^{12} r R+344 l^{10} r^3 R-$$
$$40 l^8 r^5 R-528 l^6 r^7 R+528 l^4 r^9 R+568 l^2 r^{11} R-72 r^{13} R-16 l^{12} R^2+632 l^{10} r^2 R^2-$$
$$3624 l^8 r^4 R^2+3568 l^6 r^6 R^2-2720 l^4 r^8 R^2+5016 l^2 r^{10} R^2-808 r^{12} R^2+440 l^{10} r R^3-$$
$$7496 l^8 r^3 R^3+23408 l^6 r^5 R^3-27728 l^4 r^7 R^3+27480 l^2 r^9 R^3-5608 r^{11} R^3+108 l^{10} R^4-$$
$$6228 l^8 r^2 R^4+50360 l^6 r^4 R^4-103400 l^4 r^6 R^4+101020 l^2 r^8 R^4-26628 r^{10} R^4-2480 l^8 r R^5+$$
$$50624 l^6 r^3 R^5-201120 l^4 r^5 R^5+256704 l^2 r^7 R^5-90160 r^9 R^5-400 l^8 R^6+26624 l^6 r^2 R^6-$$
$$227232 l^4 r^4 R^6+450944 l^2 r^6 R^6-221008 r^8 R^6+7360 l^6 r R^7-150848 l^4 r^3 R^7+$$
$$535104 l^2 r^5 R^7-392640 r^7 R^7+880 l^6 R^8-57840 l^4 r^2 R^8+419280 l^2 r^4 R^8-500688 r^6 R^8-$$
$$12160 l^4 r R^9+209280 l^2 r^3 R^9-449280 r^5 R^9-1152 l^4 R^{10}+63104 l^2 r^2 R^{10}-275968 r^4 R^{10}+$$
$$10624 l^2 r R^{11}-111232 r^3 R^{11}+832 l^2 R^{12}-27584 r^2 R^{12}-3840 r R^{13}-256 R^{14}\big)\Big/$$
$$\big((l^2-3 r^2-6 r R-2 R^2)^2\ (l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2-4 R^4)^2\big)\Big)\}$$

$$\{X47,\ X(110)\text{-BETH CONJUGATE OF } X(34),\ X97,\ \text{ISOGONAL CONJUGATE OF } X(53),$$
$$\Big(R^2\ \big(2 l^{10} r^2-6 l^8 r^4-28 l^6 r^6-28 l^4 r^8-6 l^2 r^{10}+2 r^{12}-48 l^8 r^3 R+208 l^6 r^5 R-304 l^4 r^7 R-16 l^2 r^9 R+$$
$$32 r^{11} R+l^{10} R^2-15 l^8 r^2 R^2+342 l^6 r^4 R^2-986 l^4 r^6 R^2+137 l^2 r^8 R^2+201 r^{10} R^2-32 l^8 r R^3+$$
$$416 l^6 r^3 R^3-1808 l^4 r^5 R^3+992 l^2 r^7 R^3+560 r^9 R^3-12 l^8 R^4+384 l^6 r^2 R^4-2536 l^4 r^4 R^4+$$
$$3520 l^2 r^6 R^4+116 r^8 R^4+336 l^6 r R^5-3408 l^4 r^3 R^5+8528 l^2 r^5 R^5-4048 r^7 R^5+52 l^6 R^6-$$
$$2852 l^4 r^2 R^6+13612 l^2 r^4 R^6-13628 r^6 R^6-1248 l^4 r R^7+13184 l^2 r^3 R^7-23328 r^5 R^7-96 l^4 R^8+$$
$$7232 l^2 r^2 R^8-24160 r^4 R^8+1920 l^2 r R^9-15488 r^3 R^9+64 l^2 R^{10}-5824 r^2 R^{10}-1024 r R^{11}\big)\Big)\Big/$$
$$\big((l^2-3 r^2-6 r R-2 R^2)^2\ (l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-7 l^2 R^2+23 r^2 R^2+28 r R^3+12 R^4)^2\big)\}$$

$$\{X47,\ X(110)\text{-BETH CONJUGATE OF } X(34),\ X98,\ \text{TarryPoint},$$
$$-\Big(\big(l^{10}+l^8 r^2-6 l^6 r^4-14 l^4 r^6-11 l^2 r^8-3 r^{10}-24 l^8 r R+8 l^6 r^3 R+40 l^4 r^5 R-40 l^2 r^7 R-48 r^9 R-$$
$$8 l^8 R^2+208 l^6 r^2 R^2-272 l^4 r^4 R^2+208 l^2 r^6 R^2-328 r^8 R^2+152 l^6 r R^3-952 l^4 r^3 R^3+$$
$$1352 l^2 r^5 R^3-1256 r^7 R^3+20 l^6 R^4-996 l^4 r^2 R^4+3036 l^2 r^4 R^4-2924 r^6 R^4-272 l^4 r R^5+$$
$$2880 l^2 r^3 R^5-4144 r^5 R^5-16 l^4 R^6+1120 l^2 r^2 R^6-3408 r^4 R^6+128 l^2 r R^7-1408 r^3 R^7-256 r^2 R^8\big)\Big/$$
$$\big((l^2-3 r^2-6 r R-2 R^2)^2\ (l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2)\big)\Big)\}$$

$$\{X47,\ X(110)\text{-BETH CONJUGATE OF } X(34),\ X99,\ \text{STEINER POINT},$$
$$\Big(l^{10}+l^8 r^2-6 l^6 r^4-14 l^4 r^6-11 l^2 r^8-3 r^{10}-24 l^8 r R+8 l^6 r^3 R+40 l^4 r^5 R-40 l^2 r^7 R-48 r^9 R-$$
$$4 l^8 R^2+120 l^6 r^2 R^2+208 l^4 r^4 R^2-216 l^2 r^6 R^2-300 r^8 R^2+80 l^6 r R^3+16 l^4 r^3 R^3-848 l^2 r^5 R^3-912 r^7$$
$$R^3+4 l^6 R^4-212 l^4 r^2 R^4-1236 l^2 r^4 R^4-1340 r^6 R^4-64 l^4 r R^5-416 l^2 r^3 R^5-736 r^5 R^5+64 r^4 R^6\Big)\Big/$$
$$\big((l^2-3 r^2-6 r R-2 R^2)^2\ (l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2)\big)\}$$

$$\{X47,\ X(110)\text{-BETH CONJUGATE OF } X(34),\ X100,\ \text{ANTICOMPLEMENT OF FEUERBACH POINT},$$
$$\Big(R\ \big(-l^6+l^4 r^2+5 l^2 r^4+3 r^6+24 l^4 r R-64 l^2 r^3 R+40 r^5 R+4 l^4 R^2-136 l^2 r^2 R^2+180 r^4 R^2-$$
$$80 l^2 r R^3+336 r^3 R^3-4 l^2 R^4+236 r^2 R^4+64 r R^5\big)\Big)\Big/\big((2 r-R)\ (-l^2+3 r^2+6 r R+2 R^2)^2\big)\}$$

$$\{X48,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(63),\ X49,$$
$$\text{CENTER OF SINE-TRIPLE-ANGLE CIRCLE},\ -\frac{1}{(3 l^2-r^2-6 r R-8 R^2)^2\ (2 l^2-2 r^2-8 r R-7 R^2)^2}$$
$$R^2\ \big(l^8+4 l^6 r^2+6 l^4 r^4+4 l^2 r^6+r^8-44 l^6 r R+60 l^4 r^3 R-4 l^2 r^5 R+20 r^7 R-16 l^6 R^2+$$
$$280 l^4 r^2 R^2-240 l^2 r^4 R^2+168 r^6 R^2+432 l^4 r R^3-1072 l^2 r^3 R^3+768 r^5 R^3+75 l^4 R^4-$$
$$1894 l^2 r^2 R^4+2063 r^4 R^4-1276 l^2 r R^5+3252 r^3 R^5-96 l^2 R^6+2764 r^2 R^6+928 r R^7-64 R^8\big)\}$$

$$\{X48,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(63),\ X50,\ X(74)\text{-CEVA CONJUGATE OF } X(184),$$
$$-\Big(\big(4 l^4 R^2\ \big(l^8+4 l^6 r^2+6 l^4 r^4+4 l^2 r^6+r^8-28 l^6 r R+28 l^4 r^3 R-52 l^2 r^5 R+20 r^7 R-10 l^6 R^2+$$
$$146 l^4 r^2 R^2-270 l^2 r^4 R^2+150 r^6 R^2+240 l^4 r R^3-640 l^2 r^3 R^3+560 r^5 R^3+33 l^4 R^4-$$
$$954 l^2 r^2 R^4+1189 r^4 R^4-660 l^2 r R^5+1612 r^3 R^5-36 l^2 R^6+1392 r^2 R^6+576 r R^7\big)\Big)\Big/$$
$$\big((3 l^2-r^2-6 r R-8 R^2)^2\ (l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-3 l^2 R^2+19 r^2 R^2+12 r R^3)^2\big)\Big)\}$$

$$\Big\{X48,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(63),\ X51,$$
$$\text{CENTROID OF ORTHIC TRIANGLE},\ -\frac{1}{36 R^2 \left(-3 l^2+r^2+6 r R+8 R^2\right)^2}$$
$$\left(9 l^8+156 l^6 r^2-98 l^4 r^4+12 l^2 r^6+r^8-108 l^6 r R-516 l^4 r^3 R+124 l^2 r^5 R+20 r^7 R-12 l^6 R^2-\right.$$
$$848 l^4 r^2 R^2+548 l^2 r^4 R^2+168 r^6 R^2-96 l^4 r R^3+1312 l^2 r^3 R^3+768 r^5 R^3-80 l^4 R^4+$$
$$\left.1664 l^2 r^2 R^4+2064 r^4 R^4+832 l^2 r R^5+3264 r^3 R^5-64 l^2 R^6+2816 r^2 R^6+1024 r R^7\right)\Big\}$$

$$\Big\{X48,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(63),\ X52,$$
$$\text{ORTHOCENTER OF ORTHIC TRIANGLE},\ \frac{1}{4 R^2 \left(-3 l^2+r^2+6 r R+8 R^2\right)^2}$$
$$\left(9 l^8-132 l^6 r^2+94 l^4 r^4-20 l^2 r^6+r^8-108 l^6 r R+636 l^4 r^3 R-260 l^2 r^5 R+20 r^7 R-84 l^6 R^2+\right.$$
$$1312 l^4 r^2 R^2-1316 l^2 r^4 R^2+168 r^6 R^2+864 l^4 r R^3-3232 l^2 r^3 R^3+768 r^5 R^3+276 l^4 R^4-$$
$$\left.3896 l^2 r^2 R^4+2068 r^4 R^4-2064 l^2 r R^5+3312 r^3 R^5-384 l^2 R^6+3024 r^2 R^6+1408 r R^7+256 R^8\right)\Big\}$$

$$\Big\{X48,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(63),\ X53,\ \text{SYMMEDIAN POINT OF ORTHIC TRIANGLE},$$
$$\left(4 l^4 \left(6 l^8 r^2-56 l^6 r^4+132 l^4 r^6-56 l^2 r^8+6 r^{10}-96 l^6 r^3 R+544 l^4 r^5 R-544 l^2 r^7 R+96 r^9 R-l^8 R^2-\right.\right.$$
$$68 l^6 r^2 R^2+910 l^4 r^4 R^2-1980 l^2 r^6 R^2+627 r^8 R^2+28 l^6 r R^3+724 l^4 r^3 R^3-3484 l^2 r^5 R^3+$$
$$2156 r^7 R^3+12 l^6 R^4+96 l^4 r^2 R^4-3140 l^2 r^4 R^4+4184 r^6 R^4-288 l^4 r R^5-1120 l^2 r^3 R^5+4480 r^5 R^5-$$
$$\left.\left.48 l^4 R^6+768 l^2 r^2 R^6+2096 r^4 R^6+960 l^2 r R^7-704 r^3 R^7+64 l^2 R^8-1792 r^2 R^8-1024 r R^9\right)\right)/$$
$$\left(\left(3 l^2-r^2-6 r R-8 R^2\right)^2 \left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-4 l^2 R^2+20 r^2 R^2+16 r R^3\right)^2\right)\Big\}$$

$$\Big\{X48,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(63),\ X54,\ \text{KosnitaPoint},$$
$$-\left(\left(R^2 \left(4 l^8+12 l^6 r^2+12 l^4 r^4+4 l^2 r^6-80 l^6 r R+64 l^4 r^3 R+16 l^2 r^5 R-25 l^6 R^2+237 l^4 r^2 R^2-\right.\right.\right.$$
$$59 l^2 r^4 R^2-r^6 R^2+408 l^4 r R^3-408 l^2 r^3 R^3-16 r^5 R^3+8 l^4 R^4-688 l^2 r^2 R^4-$$
$$\left.\left.104 r^4 R^4-256 l^2 r R^5-352 r^3 R^5+176 l^2 R^6-656 r^2 R^6-640 r R^7-256 R^8\right)\right)/$$
$$\left.\left(\left(3 l^2-r^2-6 r R-8 R^2\right)^2 \left(2 l^2-2 r^2-8 r R-5 R^2\right)^2\right)\right)\Big\}$$

$$\Big\{X48,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(63),\ X55,\ \text{INSIMILICENTER(CIRCUMCIRCLE, INCIRCLE)},$$
$$-\left(\left(R^2 \left(-11 l^4 r^2+6 l^2 r^4+r^6+20 l^4 r R+4 l^2 r^3 R+16 r^5 R+4 l^4 R^2-92 l^2 r^2 R^2+100 r^4 R^2-160 l^2 r R^3+\right.\right.\right.$$
$$\left.\left.\left.304 r^3 R^3-16 l^2 R^4+448 r^2 R^4+256 r R^5\right)\right)/\left((r+R)^2 \left(-3 l^2+r^2+6 r R+8 R^2\right)^2\right)\right)\Big\}$$

$$\Big\{X48,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(63),\ X56,\ \text{EXSIMILICENTER(CIRCUMCIRCLE, INCIRCLE)},$$
$$\frac{R^2 (r+2 R)^2 \left(-l^4-14 l^2 r^2+3 r^4+20 l^2 r R+20 r^3 R+4 l^2 R^2+16 r^2 R^2-64 r R^3\right)}{(r-R)^2 \left(-3 l^2+r^2+6 r R+8 R^2\right)^2}\Big\}$$

$$\Big\{X48,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(63),\ X57,\ \text{ISOGONAL CONJUGATE OF } X(9),$$
$$-\left(\left(4 R \left(6 l^4 r^3-2 l^2 r^5+10 l^4 r^2 R-17 l^2 r^4 R+r^6 R+8 l^4 r R^2-72 l^2 r^3 R^2+16 r^5 R^2+4 l^4 R^3-\right.\right.\right.$$
$$\left.\left.\left.144 l^2 r^2 R^3+100 r^4 R^3-112 l^2 r R^4+304 r^3 R^4-16 l^2 R^5+448 r^2 R^5+256 r R^6\right)\right)/$$
$$\left.\left((r-2 R)^2 \left(-3 l^2+r^2+6 r R+8 R^2\right)^2\right)\right)\Big\}$$

$$\Big\{X48,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(63),\ X58,\ \text{ISOGONAL CONJUGATE OF } X(10),$$
$$-\left(\left(4 R^2 \left(l^8+10 l^6 r^2+16 l^4 r^4+6 l^2 r^6-r^8-20 l^6 r R+20 l^4 r^3 R-4 l^2 r^5 R-12 r^7 R-\right.\right.\right.$$
$$\left.\left.\left.4 l^6 R^2-96 l^2 r^4 R^2-52 r^6 R^2+64 l^4 r R^3-128 l^2 r^3 R^3-96 r^5 R^3-64 r^4 R^4\right)\right)/$$
$$\left.\left(\left(l^2-3 r^2-4 r R\right)^2 \left(3 l^2-r^2-6 r R-8 R^2\right)^2\right)\right)\Big\}$$

$$\Big\{X48,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(63),\ X59,\ \text{ISOGONAL CONJUGATE OF } X(11),$$
$$\frac{1}{(2 r-R) \left(-l^2+r^2+5 r R+4 R^2\right)^2 \left(-3 l^2+r^2+6 r R+8 R^2\right)^2}$$
$$R^2 \left(-2 l^8 r-6 l^6 r^3-6 l^4 r^5-2 l^2 r^7+4 l^8 R+61 l^6 r^2 R-33 l^4 r^4 R-25 l^2 r^6 R+\right.$$
$$r^8 R-104 l^6 r R^2-16 l^4 r^3 R^2-144 l^2 r^5 R^2+24 r^7 R^2-48 l^6 R^3+364 l^4 r^2 R^3-$$
$$640 l^2 r^4 R^3+244 r^6 R^3+1184 l^4 r R^4-2288 l^2 r^3 R^4+1360 r^5 R^4+192 l^4 R^5-$$
$$\left.4752 l^2 r^2 R^5+4480 r^4 R^5-3968 l^2 r R^6+8704 r^3 R^6-256 l^2 R^7+9216 r^2 R^7+4096 r R^8\right)\Big\}$$

$$\Big\{X48,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(63),\ X60,\ \text{ISOGONAL CONJUGATE OF } X(12),$$
$$-\frac{1}{\left(3 l^2 - r^2 - 6 r R - 8 R^2\right)^2 \left(2 l^2 r - 2 r^3 + l^2 R - 7 r^2 R - 7 r R^2\right)^2}$$
$$R^2 \left(4 l^8 r^2 + 12 l^6 r^4 + 12 l^4 r^6 + 4 l^2 r^8 + 10 l^8 r R - 32 l^6 r^3 R + 68 l^4 r^5 R - 16 l^2 r^7 R + 2 r^9 R + 4 l^8 R^2 - 151 l^6 r^2 R^2 + 259 l^4 r^4 R^2 - 261 l^2 r^6 R^2 + 29 r^8 R^2 - 128 l^6 r R^3 + 640 l^4 r^3 R^3 - 952 l^2 r^5 R^3 + 168 r^7 R^3 - 16 l^6 R^4 + 732 l^4 r^2 R^4 - 1648 l^2 r^4 R^4 + 500 r^6 R^4 + 288 l^4 r R^5 - 1456 l^2 r^3 R^5 + 816 r^5 R^5 - 528 l^2 r^2 R^6 + 704 r^4 R^6 + 256 r^3 R^7\right)\Big\}$$

$$\Big\{X48,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(63),\ X61,\ \text{ISOGONAL CONJUGATE OF } X(17),$$
$$-\Big(\Big(12 l^2 R^2 \Big(3 l^6 + 4 \sqrt{3}\, l^5 r + 37 l^4 r^2 - 24 \sqrt{3}\, l^3 r^3 + l^2 r^4 + 4 \sqrt{3}\, l r^5 - r^6 - 60 l^4 r R - 40 \sqrt{3}\, l^3 r^2 R - 24 l^2 r^3 R + 40 \sqrt{3}\, l r^4 R - 12 r^5 R - 12 l^4 R^2 - 16 \sqrt{3}\, l^3 r R^2 - 16 l^2 r^2 R^2 + 128 \sqrt{3}\, l r^3 R^2 - 52 r^4 R^2 + 192 l^2 r R^3 + 128 \sqrt{3}\, l r^2 R^3 - 96 r^3 R^3 - 64 r^2 R^4\Big)\Big) \Big/ \Big(\left(3 l^2 + 2 \sqrt{3}\, l r - 3 r^2 - 12 r R\right)^2 \left(3 l^2 - r^2 - 6 r R - 8 R^2\right)^2\Big)\Big)\Big\}$$

$$\Big\{X48,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(63),\ X62,\ \text{ISOGONAL CONJUGATE OF } X(18),$$
$$-\Big(\Big(12 l^2 R^2 \Big(3 l^6 - 4 \sqrt{3}\, l^5 r + 37 l^4 r^2 + 24 \sqrt{3}\, l^3 r^3 + l^2 r^4 - 4 \sqrt{3}\, l r^5 - r^6 - 60 l^4 r R + 40 \sqrt{3}\, l^3 r^2 R - 24 l^2 r^3 R - 40 \sqrt{3}\, l r^4 R - 12 r^5 R - 12 l^4 R^2 + 16 \sqrt{3}\, l^3 r R^2 - 16 l^2 r^2 R^2 - 128 \sqrt{3}\, l r^3 R^2 - 52 r^4 R^2 + 192 l^2 r R^3 - 128 \sqrt{3}\, l r^2 R^3 - 96 r^3 R^3 - 64 r^2 R^4\Big)\Big) \Big/ \Big(\left(3 l^2 - 2 \sqrt{3}\, l r - 3 r^2 - 12 r R\right)^2 \left(3 l^2 - r^2 - 6 r R - 8 R^2\right)^2\Big)\Big)\Big\}$$

$$\Big\{X48,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(63),\ X63,\ \text{ISOGONAL CONJUGATE OF } X(19),$$
$$-\Big(\Big(R \Big(-12 l^6 r + 16 l^4 r^3 - 4 l^2 r^5 - 3 l^6 R + 95 l^4 r^2 R - 45 l^2 r^4 R + r^6 R + 136 l^4 r R^2 - 216 l^2 r^3 R^2 + 16 r^5 R^2 + 12 l^4 R^3 - 464 l^2 r^2 R^3 + 100 r^4 R^3 - 368 l^2 r R^4 + 304 r^3 R^4 - 16 l^2 R^5 + 448 r^2 R^5 + 256 r R^6\Big)\Big) \Big/ \Big((r + R)^2 \left(-3 l^2 + r^2 + 6 r R + 8 R^2\right)^2\Big)\Big)\Big\}$$

$$\Big\{X48,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(63),\ X64,$$
$$\text{ISOGONAL CONJUGATE OF } X(20),\ \frac{1}{(l - r - 2 R)^2 (l + r + 2 R)^2 \left(3 l^2 - r^2 - 6 r R - 8 R^2\right)^2}$$
$$4 R^2 \left(20 l^8 - 48 l^6 r^2 + 51 l^4 r^4 - 22 l^2 r^6 + 3 r^8 - 256 l^6 r R + 488 l^4 r^3 R - 316 l^2 r^5 R + 60 r^7 R - 320 l^6 R^2 + 1800 l^4 r^2 R^2 - 1900 l^2 r^4 R^2 + 520 r^6 R^2 + 2976 l^4 r R^3 - 6144 l^2 r^3 R^3 + 2560 r^5 R^3 + 1840 l^4 R^4 - 11264 l^2 r^2 R^4 + 7856 r^4 R^4 - 11072 l^2 r R^5 + 15424 r^3 R^5 - 4544 l^2 R^6 + 18944 r^2 R^6 + 13312 r R^7 + 4096 R^8\right)\Big\}$$

$$\Big\{X48,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(63),\ X65,\ \text{ORTHOCENTER OF THE INTOUCH TRIANGLE},$$
$$-\Big(\Big(18 l^4 r^3 - 12 l^2 r^5 + 2 r^7 + 21 l^4 r^2 R - 94 l^2 r^4 R + 29 r^6 R + 12 l^4 r R^2 - 244 l^2 r^3 R^2 + 168 r^5 R^2 + 4 l^4 R^3 - 268 l^2 r^2 R^3 + 500 r^4 R^3 - 128 l^2 r R^4 + 816 r^3 R^4 - 16 l^2 R^5 + 704 r^2 R^5 + 256 r R^6\Big) \Big/ \Big(R \left(-3 l^2 + r^2 + 6 r R + 8 R^2\right)^2\Big)\Big)\Big\}$$

$$\Big\{X48,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(63),\ X66,\ \text{ISOGONAL CONJUGATE OF } X(22),$$
$$-\Big(\Big(6 l^{14} - 80 l^{12} r^2 + 254 l^{10} r^4 - 352 l^8 r^6 + 242 l^6 r^8 - 80 l^4 r^{10} + 10 l^2 r^{12} - 144 l^{12} r R + 1424 l^{10} r^3 R - 3456 l^8 r^5 R + 3456 l^6 r^7 R - 1520 l^4 r^9 R + 240 l^2 r^{11} R - 63 l^{12} R^2 + 2298 l^{10} r^2 R^2 - 12385 l^8 r^4 R^2 + 19884 l^6 r^6 R^2 - 12257 l^4 r^8 R^2 + 2522 l^2 r^{10} R^2 + r^{12} R^2 + 1308 l^{10} r R^3 - 19876 l^8 r^3 R^3 + 58888 l^6 r^5 R^3 - 54520 l^4 r^7 R^3 + 15196 l^2 r^9 R^3 + 28 r^{11} R^3 + 220 l^{10} R^4 - 14264 l^8 r^2 R^4 + 94936 l^6 r^4 R^4 - 145312 l^4 r^6 R^4 + 57676 l^2 r^8 R^4 + 344 r^{10} R^4 - 3872 l^8 r R^5 + 80608 l^6 r^3 R^5 - 235360 l^4 r^5 R^5 + 142368 l^2 r^7 R^5 + 2432 r^9 R^5 - 256 l^8 R^6 + 31392 l^6 r^2 R^6 - 223088 l^4 r^4 R^6 + 227072 l^2 r^6 R^6 + 10896 r^8 R^6 + 3712 l^6 r R^7 - 110720 l^4 r^3 R^7 + 223296 l^2 r^5 R^7 + 32064 r^7 R^7 - 21248 l^4 r^2 R^8 + 120256 l^2 r^4 R^8 + 61952 r^6 R^8 + 25088 l^2 r^3 R^9 + 75776 r^5 R^9 - 1024 l^2 r^2 R^{10} + 53248 r^4 R^{10} + 16384 r^3 R^{11}\Big) \Big/ \Big((l - r - 2 R)^2 (l + r + 2 R)^2 \left(l^2 - r^2 - 4 r R\right)^2 \left(3 l^2 - r^2 - 6 r R - 8 R^2\right)^2\Big)\Big)\Big\}$$

$$\{X48,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(63),\ X67,\ \text{ISOGONAL CONJUGATE OF } X(23),$$
$$-\Big(\big(3 l^{12} - 142 l^{10} r^2 + 377 l^8 r^4 - 356 l^6 r^6 + 133 l^4 r^8 - 14 l^2 r^{10} - r^{12} - 60 l^{10} r R + 1764 l^8 r^3 R - 3272 l^6 r^5 R + 1848 l^4 r^7 R - 252 l^2 r^9 R - 28 r^{11} R - 24 l^{10} R^2 + 1952 l^8 r^2 R^2 - 10744 l^6 r^4 R^2 + 10296 l^4 r^6 R^2 - 1904 l^2 r^8 R^2 - 344 r^{10} R^2 + 432 l^8 r R^3 - 15056 l^6 r^3 R^3 + 29392 l^4 r^5 R^3 - 7856 l^2 r^7 R^3 - 2432 r^9 R^3 + 44 l^8 R^4 - 8104 l^6 r^2 R^4 + 45228 l^4 r^4 R^4 - 19280 l^2 r^6 R^4 - 10896 r^8 R^4 - 752 l^6 r R^5 + 35472 l^4 r^3 R^5 - 28736 l^2 r^5 R^5 - 32064 r^7 R^5 + 16 l^6 R^6 + 11136 l^4 r^2 R^6 - 25536 l^2 r^4 R^6 - 61952 r^6 R^6 - 12800 l^2 r^3 R^7 - 75776 r^5 R^7 - 3072 l^2 r^2 R^8 - 53248 r^4 R^8 - 16384 r^3 R^9\big) \Big/ \big((l^2 - r^2 - 4 r R)^2 (2 l^2 - 2 r^2 - 8 r R - 9 R^2) (3 l^2 - r^2 - 6 r R - 8 R^2)^2\big)\Big)\}$$

$$\{X48,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(63),\ X68,$$
$$\text{PRASOLOV POINT},\ -\frac{1}{(l - r - 2 R)^2 (l + r + 2 R)^2 (3 l^2 - r^2 - 6 r R - 8 R^2)^2}$$
$$\big(6 l^{10} - 68 l^8 r^2 + 112 l^6 r^4 - 60 l^4 r^6 + 10 l^2 r^8 - 96 l^8 r R + 640 l^6 r^3 R - 640 l^4 r^5 R + 160 l^2 r^7 R - 81 l^8 R^2 + 1284 l^6 r^2 R^2 - 2726 l^4 r^4 R^2 + 1092 l^2 r^6 R^2 - r^8 R^2 + 1020 l^6 r R^3 - 5884 l^4 r^3 R^3 + 4148 l^2 r^5 R^3 - 20 r^7 R^3 + 388 l^6 R^4 - 6608 l^4 r^2 R^4 + 9540 l^2 r^4 R^4 - 168 r^6 R^4 - 3552 l^4 r R^5 + 13408 l^2 r^3 R^5 - 768 r^5 R^5 - 804 l^4 R^6 + 10920 l^2 r^2 R^6 - 2068 r^4 R^6 + 4496 l^2 r R^7 - 3312 r^3 R^7 + 704 l^2 R^8 - 3024 r^2 R^8 - 1408 r R^9 - 256 R^{10}\big)\}$$

$$\{X48,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(63),\ X69,$$
$$\text{SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},\ \frac{1}{(l^2 - r^2 - 4 r R)^2 (3 l^2 - r^2 - 6 r R - 8 R^2)^2}$$
$$\big(3 l^{10} + 71 l^8 r^2 - 126 l^6 r^4 + 58 l^4 r^6 - 5 l^2 r^8 - r^{10} - 48 l^8 r R - 520 l^6 r^3 R + 520 l^4 r^5 R - 56 l^2 r^7 R - 24 r^9 R - 12 l^8 R^2 - 536 l^6 r^2 R^2 + 1728 l^4 r^4 R^2 - 232 l^2 r^6 R^2 - 244 r^8 R^2 + 144 l^6 r R^3 + 2768 l^4 r^3 R^3 - 528 l^2 r^5 R^3 - 1360 r^7 R^3 + 16 l^6 R^4 + 1824 l^4 r^2 R^4 - 1136 l^2 r^4 R^4 - 4480 r^6 R^4 - 128 l^4 r R^5 - 2176 l^2 r^3 R^5 - 8704 r^5 R^5 - 1792 l^2 r^2 R^6 - 9216 r^4 R^6 - 4096 r^3 R^7\big)\}$$

$$\{X48,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(63),\ X70,\ \text{ISOGONAL CONJUGATE OF } X(26),$$
$$-\Big(\big(6 l^{14} - 80 l^{12} r^2 + 254 l^{10} r^4 - 352 l^8 r^6 + 242 l^6 r^8 - 80 l^4 r^{10} + 10 l^2 r^{12} - 144 l^{12} r R + 1424 l^{10} r^3 R - 3456 l^8 r^5 R + 3456 l^6 r^7 R - 1520 l^4 r^9 R + 240 l^2 r^{11} R - 96 l^{12} R^2 + 2600 l^{10} r^2 R^2 - 13088 l^8 r^4 R^2 + 20560 l^6 r^6 R^2 - 12544 l^4 r^8 R^2 + 2568 l^2 r^{10} R^2 + 1968 l^{10} r R^3 - 24160 l^8 r^3 R^3 + 65984 l^6 r^5 R^3 - 58912 l^4 r^7 R^3 + 16144 l^2 r^9 R^3 + 613 l^{10} R^4 - 22693 l^8 r^2 R^4 + 123474 l^6 r^4 R^4 - 173146 l^4 r^6 R^4 + 66121 l^2 r^8 R^4 - r^{10} R^4 - 10400 l^8 r R^5 + 135784 l^6 r^3 R^5 - 329576 l^4 r^5 R^5 + 184824 l^2 r^7 R^5 - 24 r^9 R^5 - 1986 l^8 R^6 + 84120 l^6 r^2 R^6 - 406052 l^4 r^4 R^6 + 358920 l^2 r^6 R^6 - 250 r^8 R^6 + 26536 l^6 r R^7 - 313944 l^4 r^3 R^7 + 483320 l^2 r^5 R^7 - 1480 r^7 R^7 + 3439 l^6 R^8 - 142211 l^4 r^2 R^8 + 442349 l^2 r^4 R^8 - 5473 r^6 R^8 - 33160 l^4 r R^9 + 263816 l^2 r^3 R^9 - 13072 r^5 R^9 - 3096 l^4 R^{10} + 94992 l^2 r^2 R^{10} - 20104 r^4 R^{10} + 17920 l^2 r R^{11} - 19168 r^3 R^{11} + 1328 l^2 R^{12} - 10384 r^2 R^{12} - 2688 r R^{13} - 256 R^{14}\big) \Big/ \big((3 l^2 - r^2 - 6 r R - 8 R^2)^2 (l^4 - 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 6 l^2 R^2 + 22 r^2 R^2 + 24 r R^3 + 7 R^4)^2\big)\Big)\}$$

$$\{X48,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(63),\ X71,\ \text{ISOGONAL CONJUGATE OF } X(27),$$
$$\frac{16 l^4 R^2 (5 l^4 - 10 l^2 r^2 + r^4 - 36 l^2 r R + 12 r^3 R - 32 l^2 R^2 + 52 r^2 R^2 + 96 r R^3 + 64 R^4)}{(3 l^2 - r^2 - 6 r R - 8 R^2)^2 (l^2 + r^2 + 6 r R + 8 R^2)^2}\}$$

$$\{X48,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(63),\ X72,\ \text{ISOGONAL CONJUGATE OF } X(28),$$
$$-\Big(\big(-9 l^6 r + 15 l^4 r^3 - 7 l^2 r^5 + r^7 - 3 l^6 R + 82 l^4 r^2 R - 75 l^2 r^4 R + 16 r^6 R + 120 l^4 r R^2 - 296 l^2 r^3 R^2 + 104 r^5 R^2 + 12 l^4 R^3 - 512 l^2 r^2 R^3 + 352 r^4 R^3 - 336 l^2 r R^4 + 656 r^3 R^4 - 16 l^2 R^5 + 640 r^2 R^5 + 256 r R^6\big) \Big/ \big(R (-3 l^2 + r^2 + 6 r R + 8 R^2)^2\big)\Big)\}$$

$$\{X48,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(63),\ X73,\ \text{CROSSPOINT OF INCENTER AND CIRCUMCENTER},$$
$$-\frac{4 (l - r - 2 R)^2 R^2 (l + r + 2 R)^2 (l^4 + 14 l^2 r^2 - 3 r^4 - 20 l^2 r R - 20 r^3 R - 4 l^2 R^2 - 16 r^2 R^2 + 64 r R^3)}{(3 l^2 - r^2 - 6 r R - 8 R^2)^2 (l^2 + r^2 - 2 r R - 4 R^2)^2}\}$$

$$\{X48,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(63),\ X74,\ \text{ISOGONAL CONJUGATE OF EULER INFINITY POINT},$$
$$\big(R^2 (55 l^6 - 123 l^4 r^2 + 69 l^2 r^4 - 9 r^6 - 520 l^4 r R + 648 l^2 r^3 R - 144 r^5 R - 568 l^4 R^2 + 2256 l^2 r^2 R^2 - 936 r^4 R^2 + 3456 l^2 r R^3 - 3168 r^3 R^3 + 1968 l^2 R^4 - 5904 r^2 R^4 - 5760 r R^5 - 2304 R^6\big) \Big/ \big((2 l^2 - 2 r^2 - 8 r R - 9 R^2) (3 l^2 - r^2 - 6 r R - 8 R^2)^2\big)\}$$

$$\Big\{X48,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(63),\ X75,$$

$$\text{ISOTOMIC CONJUGATE OF INCENTER},\ \frac{1}{\left(l^2+r^2+4\,r\,R\right)^2\left(3\,l^2-r^2-6\,r\,R-8\,R^2\right)^2}$$

$$\left(3\,l^{10}+11\,l^8\,r^2+14\,l^6\,r^4+6\,l^4\,r^6-l^2\,r^8-r^{10}-96\,l^8\,r\,R+264\,l^6\,r^3\,R-104\,l^4\,r^5\,R+24\,l^2\,r^7\,R-24\,r^9\,R-12\,l^8\,R^2+568\,l^6\,r^2\,R^2-1056\,l^4\,r^4\,R^2+424\,l^2\,r^6\,R^2-244\,r^8\,R^2+400\,l^6\,r\,R^3-2736\,l^4\,r^3\,R^3+2288\,l^2\,r^5\,R^3-1360\,r^7\,R^3+16\,l^6\,R^4-2336\,l^4\,r^2\,R^4+5520\,l^2\,r^4\,R^4-4480\,r^6\,R^4-384\,l^4\,r\,R^5+6016\,l^2\,r^3\,R^5-8704\,r^5\,R^5+2304\,l^2\,r^2\,R^6-9216\,r^4\,R^6-4096\,r^3\,R^7\right)\Big\}$$

$$\Big\{X48,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(63),\ X76,\ \text{3rd BROCARD POINT},$$

$$\left(3\,l^{14}+17\,l^{12}\,r^2+39\,l^{10}\,r^4+45\,l^8\,r^6+25\,l^6\,r^8+3\,l^4\,r^{10}-3\,l^2\,r^{12}-r^{14}-72\,l^{12}\,r\,R-200\,l^{10}\,r^3\,R-112\,l^8\,r^5\,R+112\,l^6\,r^7\,R+88\,l^4\,r^9\,R-40\,l^2\,r^{11}\,R-32\,r^{13}\,R-12\,l^{12}\,R^2+208\,l^{10}\,r^2\,R^2+2228\,l^8\,r^4\,R^2-1536\,l^6\,r^6\,R^2+924\,l^4\,r^8\,R^2-80\,l^2\,r^{10}\,R^2-452\,r^{12}\,R^2+240\,l^{10}\,r\,R^3+2064\,l^8\,r^3\,R^3-10\,336\,l^6\,r^5\,R^3+5216\,l^4\,r^7\,R^3+1392\,l^2\,r^9\,R^3-3696\,r^{11}\,R^3+16\,l^{10}\,R^4+64\,l^8\,r^2\,R^4-19\,232\,l^6\,r^4\,R^4+17\,920\,l^4\,r^6\,R^4+10\,768\,l^2\,r^8\,R^4-19\,264\,r^{10}\,R^4-256\,l^8\,r\,R^5-9984\,l^6\,r^3\,R^5+35\,840\,l^4\,r^5\,R^5+33\,536\,l^2\,r^7\,R^5-66\,304\,r^9\,R^5-512\,l^6\,r^2\,R^6+33\,792\,l^4\,r^4\,R^6+50\,688\,l^2\,r^6\,R^6-150\,528\,r^8\,R^6+8192\,l^4\,r^3\,R^7+32\,768\,l^2\,r^5\,R^7-217\,088\,r^7\,R^7+4096\,l^2\,r^4\,R^8-180\,224\,r^6\,R^8-65\,536\,r^5\,R^9\right)\Big/\left(\left(3\,l^2-r^2-6\,r\,R-8\,R^2\right)^2\left(l^4+2\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R+16\,r^2\,R^2\right)^2\right)\Big\}$$

$$\Big\{X48,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(63),\ X77,$$

$$\text{ISOGONAL CONJUGATE OF } X(33),\ -\frac{1}{\left(3\,l^2-r^2-6\,r\,R-8\,R^2\right)^2\left(l^2-r\,R-4\,R^2\right)^2}$$

$$R\left(6\,l^8\,r-14\,l^6\,r^3+10\,l^4\,r^5-2\,l^2\,r^7+4\,l^8\,R-83\,l^6\,r^2\,R+115\,l^4\,r^4\,R-37\,l^2\,r^6\,R+r^8\,R-168\,l^6\,r\,R^2+552\,l^4\,r^3\,R^2-312\,l^2\,r^5\,R^2+24\,r^7\,R^2-48\,l^6\,R^3+1324\,l^4\,r^2\,R^3-1504\,l^2\,r^4\,R^3+244\,r^6\,R^3+1312\,l^4\,r\,R^4-4208\,l^2\,r^3\,R^4+1360\,r^5\,R^4+192\,l^4\,R^5-6288\,l^2\,r^2\,R^5+4480\,r^4\,R^5-3968\,l^2\,r\,R^6+8704\,r^3\,R^6-256\,l^2\,R^7+9216\,r^2\,R^7+4096\,r\,R^8\right)\Big\}$$

$$\Big\{X48,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(63),\ X78,\ \text{ISOGONAL CONJUGATE OF } X(34),$$

$$-\left(\left(R\left(-6\,l^6\,r+14\,l^4\,r^3-10\,l^2\,r^5+2\,r^7-3\,l^6\,R+59\,l^4\,r^2\,R-85\,l^2\,r^4\,R+29\,r^6\,R+104\,l^4\,r\,R^2-304\,l^2\,r^3\,R^2+168\,r^5\,R^2+12\,l^4\,R^3-496\,l^2\,r^2\,R^3+500\,r^4\,R^3-304\,l^2\,r\,R^4+816\,r^3\,R^4-16\,l^2\,R^5+704\,r^2\,R^5+256\,r\,R^6\right)\right)\Big/\left((r-R)^2\left(-3\,l^2+r^2+6\,r\,R+8\,R^2\right)^2\right)\right)\Big\}$$

$$\Big\{X48,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(63),\ X79,\ \text{ISOGONAL CONJUGATE OF } X(35),$$

$$-\left(\left(4\left(24\,l^6\,r^2-32\,l^4\,r^4+8\,l^2\,r^6+9\,l^6\,r\,R-165\,l^4\,r^3\,R+83\,l^2\,r^5\,R+r^7\,R-222\,l^4\,r^2\,R^2+308\,l^2\,r^4\,R^2+18\,r^6\,R^2-21\,l^4\,r\,R^3+448\,l^2\,r^3\,R^3+133\,r^5\,R^3+9\,l^4\,R^4+89\,l^2\,r^2\,R^4+516\,r^4\,R^4-240\,l^2\,r\,R^5+1108\,r^3\,R^5-36\,l^2\,R^6+1248\,r^2\,R^6+576\,r\,R^7\right)\right)\Big/\left((2\,r+3\,R)^2\left(-3\,l^2+r^2+6\,r\,R+8\,R^2\right)^2\right)\right)\Big\}$$

$$\Big\{X48,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(63),\ X80,\ \text{REFLECTION OF INCENTER IN FEUERBACH POINT},$$

$$\left(4\left(-3\,l^6\,r+19\,l^4\,r^3-9\,l^2\,r^5+r^7+30\,l^4\,r^2\,R-68\,l^2\,r^4\,R+14\,r^6\,R+21\,l^4\,r\,R^2-166\,l^2\,r^3\,R^2+77\,r^5\,R^2+l^4\,R^3-159\,l^2\,r^2\,R^3+212\,r^4\,R^3-56\,l^2\,r\,R^4+308\,r^3\,R^4-4\,l^2\,R^5+224\,r^2\,R^5+64\,r\,R^6\right)\right)\Big/\left((2\,r-R)\left(-3\,l^2+r^2+6\,r\,R+8\,R^2\right)^2\right)\Big\}$$

$$\Big\{X48,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(63),\ X81,\ \text{CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},$$

$$-\left(\left(R\left(6\,l^8\,r+10\,l^6\,r^3+2\,l^4\,r^5-2\,l^2\,r^7+4\,l^8\,R-7\,l^6\,r^2\,R-25\,l^4\,r^4\,R-13\,l^2\,r^6\,R+r^8\,R-96\,l^6\,r\,R^2-128\,l^4\,r^3\,R^2-16\,l^2\,r^5\,R^2+16\,r^7\,R^2-16\,l^6\,R^3-36\,l^4\,r^2\,R^3+144\,l^2\,r^4\,R^3+100\,r^6\,R^3+224\,l^4\,r\,R^4+528\,l^2\,r^3\,R^4+304\,r^5\,R^4+496\,l^2\,r^2\,R^5+448\,r^4\,R^5+256\,r^3\,R^6\right)\right)\Big/\left(\left(l^2-r^2-r\,R\right)^2\left(3\,l^2-r^2-6\,r\,R-8\,R^2\right)^2\right)\right)\Big\}$$

$$\Big\{X48,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(63),\ X82,\ \text{ISOGONAL CONJUGATE OF } X(38),$$

$$-\left(\left(R\left(6\,l^{12}\,r+16\,l^{10}\,r^3+6\,l^8\,r^5-16\,l^6\,r^7-14\,l^4\,r^9+2\,r^{13}+4\,l^{12}\,R-127\,l^{10}\,r^2\,R-107\,l^8\,r^4\,R+26\,l^6\,r^6\,R-98\,l^4\,r^8\,R-43\,l^2\,r^{10}\,R+57\,r^{12}\,R-160\,l^{10}\,r\,R^2+1208\,l^8\,r^3\,R^2-856\,l^6\,r^5\,R^2+744\,l^4\,r^7\,R^2-936\,l^2\,r^9\,R^2+704\,r^{11}\,R^2-16\,l^{10}\,R^3+2012\,l^8\,r^2\,R^3-7624\,l^6\,r^4\,R^3+9360\,l^4\,r^6\,R^3-8072\,l^2\,r^8\,R^3+4916\,r^{10}\,R^3+480\,l^8\,r\,R^4-12\,528\,l^6\,r^3\,R^4+32\,976\,l^4\,r^5\,R^4-35\,344\,l^2\,r^7\,R^4+21\,200\,r^9\,R^4-4752\,l^6\,r^2\,R^5+45\,856\,l^4\,r^4\,R^5-82\,704\,l^2\,r^6\,R^5+57\,728\,r^8\,R^5+21\,376\,l^4\,r^3\,R^6-97\,664\,l^2\,r^5\,R^6+96\,768\,r^7\,R^6-45\,312\,l^2\,r^4\,R^7+91\,136\,r^6\,R^7+36\,864\,r^5\,R^8\right)\right)\Big/\left(\left(3\,l^2-r^2-6\,r\,R-8\,R^2\right)^2\left(l^4-4\,l^2\,r^2+3\,r^4-9\,l^2\,r\,R+19\,r^3\,R+28\,r^2\,R^2\right)^2\right)\right)\Big\}$$

$$\{X48,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(63),\ X83,\ \text{CEVAPOINT OF CENTROID AND SYMMEDIAN POINT},$$
$$-\Big(\big(21 l^{14}+47 l^{12} r^2-15 l^{10} r^4-109 l^8 r^6-81 l^6 r^8-3 l^4 r^{10}+11 l^2 r^{12}+r^{14}-504 l^{12} r R-248 l^{10} r^3 R+368 l^8 r^5 R-368 l^6 r^7 R-280 l^4 r^9 R+232 l^2 r^{11} R+32 r^{13} R-52 l^{12} R^2+4176 l^{10} r^2 R^2-3700 l^8 r^4 R^2+3456 l^6 r^6 R^2-3484 l^4 r^8 R^2+1968 l^2 r^{10} R^2+452 r^{12} R^2+784 l^{10} r R^3-15376 l^8 r^3 R^3+21856 l^6 r^5 R^3-16992 l^4 r^7 R^3+8080 l^2 r^9 R^3+3696 r^{11} R^3-144 l^{10} R^4-3776 l^8 r^2 R^4+31136 l^6 r^4 R^4-34688 l^4 r^6 R^4+12272 l^2 r^8 R^4+19264 r^{10} R^4+3840 l^8 r R^5-3328 l^6 r^3 R^5-7680 l^4 r^5 R^5-25344 l^2 r^7 R^5+66304 r^9 R^5-30208 l^6 r^2 R^6+78848 l^4 r^4 R^6-140800 l^2 r^6 R^6+150528 r^8 R^6+98304 l^4 r^3 R^7-229376 l^2 r^5 R^7+217088 r^7 R^7-135168 l^2 r^4 R^8+180224 r^6 R^8+65536 r^5 R^9\big)\Big/\big((3 l^2-r^2-6 r R-8 R^2)^2 (5 l^4-6 l^2 r^2+5 r^4-40 l^2 r R+40 r^3 R+80 r^2 R^2)^2\big)\Big)\}$$

$$\{X48,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(63),\ X84,\ \text{ISOGONAL CONJUGATE OF } X(40),$$
$$\Big(4 R\big(6 l^6 r-2 l^4 r^3-9 l^6 R-19 l^4 r^2 R+2 l^2 r^4 R+8 l^4 r R^2+16 l^2 r^3 R^2+84 l^4 R^3-16 l^2 r^2 R^3+4 r^4 R^3-208 l^2 r R^4+48 r^3 R^4-256 l^2 R^5+208 r^2 R^5+384 r R^6+256 R^7\big)\Big)\Big/\big(r^2 (-3 l^2+r^2+6 r R+8 R^2)^2\big)\}$$

$$\{X48,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(63),\ X85,$$
$$\text{ISOTOMIC CONJUGATE OF } X(9),\ \frac{1}{(3 l^2-r^2-6 r R-8 R^2)^2 (l^2+r^2+8 r R+16 R^2)^2}$$
$$\big(3 l^{10}+11 l^8 r^2+14 l^6 r^4+6 l^4 r^6-l^2 r^8-r^{10}-216 l^8 r R+280 l^6 r^3 R+24 l^4 r^5 R+8 l^2 r^7 R-32 r^9 R-108 l^8 R^2+1416 l^6 r^2 R^2-432 l^4 r^4 R^2+408 l^2 r^6 R^2-452 r^8 R^2+2224 l^6 r R^3-3664 l^4 r^3 R^3+4112 l^2 r^5 R^3-3696 r^7 R^3+528 l^6 R^4-10208 l^4 r^2 R^4+19728 l^2 r^4 R^4-19264 r^6 R^4-10240 l^4 r R^5+50944 l^2 r^3 R^5-66304 r^5 R^5-1536 l^4 R^6+69120 l^2 r^2 R^6-150528 r^4 R^6+40960 l^2 r R^7-217088 r^3 R^7+4096 l^2 R^8-180224 r^2 R^8-65536 r R^9\big)\}$$

$$\{X48,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(63),\ X86,$$
$$\text{CEVAPOINT OF INCENTER AND CENTROID},\ -\frac{1}{(5 l^2+r^2+4 r R)^2 (3 l^2-r^2-6 r R-8 R^2)^2}$$
$$\big(21 l^{10}+5 l^8 r^2-46 l^6 r^4-22 l^4 r^6+9 l^2 r^8+r^{10}-96 l^8 r R-360 l^6 r^3 R-152 l^4 r^5 R+136 l^2 r^7 R+24 r^9 R-52 l^8 R^2-664 l^6 r^2 R^2-224 l^4 r^4 R^2+888 l^2 r^6 R^2+244 r^8 R^2-464 l^6 r R^3+496 l^4 r^3 R^3+3344 l^2 r^5 R^3+1360 r^7 R^3-144 l^6 R^4+1952 l^4 r^2 R^4+7792 l^2 r^4 R^4+4480 r^6 R^4+1920 l^4 r R^5+10368 l^2 r^3 R^5+8704 r^5 R^5+5888 l^2 r^2 R^6+9216 r^4 R^6+4096 r^3 R^7\big)\}$$

$$\{X48,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(63),\ X87,\ X(2)\text{-CROSS CONJUGATE OF } X(1),$$
$$\Big(4 R\big(3 l^{12} r+8 l^{10} r^3+3 l^8 r^5-8 l^6 r^7-7 l^4 r^9+r^{13}-l^{12} R-89 l^{10} r^2 R-98 l^8 r^4 R-2 l^6 r^6 R-37 l^4 r^8 R-21 l^2 r^{10} R+24 r^{12} R+32 l^{10} r R^2+708 l^8 r^3 R^2+640 l^6 r^5 R^2-472 l^4 r^7 R^2-192 l^2 r^9 R^2+244 r^{11} R^2+4 l^{10} R^3-336 l^8 r^2 R^3-1144 l^6 r^4 R^3-2464 l^4 r^6 R^3-300 l^2 r^8 R^3+1360 r^{10} R^3-160 l^8 r R^4+1504 l^6 r^3 R^4-3040 l^4 r^5 R^4+1824 l^2 r^7 R^4+4480 r^9 R^4+2112 l^6 r^2 R^5-2944 l^4 r^4 R^5+6720 l^2 r^6 R^5+8704 r^8 R^5-9216 l^4 r^3 R^6+6144 l^2 r^5 R^6+9216 r^7 R^6+4096 r^6 R^7\big)\Big)\Big/\big((3 l^2-r^2-6 r R-8 R^2)^2 (l^4+2 l^2 r^2+r^4-20 l^2 r R+12 r^3 R+32 r^2 R^2)^2\big)\}$$

$$\{X48,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(63),\ X88,$$
$$\text{ISOGONAL CONJUGATE OF } X(44),\ \frac{1}{(l^2+3 r^2-15 r R)^2 (3 l^2-r^2-6 r R-8 R^2)^2}$$
$$R\big(6 l^8 r+10 l^6 r^3-382 l^4 r^5+126 l^2 r^7-4 l^8 R-121 l^6 r^2 R+105 l^4 r^4 R+909 l^2 r^6 R-81 r^8 R+128 l^6 r R^2-208 l^4 r^3 R^2+3744 l^2 r^5 R^2-1296 r^7 R^2+16 l^6 R^3-1500 l^4 r^2 R^3+8496 l^2 r^4 R^3-8100 r^6 R^3-544 l^4 r R^4+10224 l^2 r^3 R^4-24624 r^5 R^4+5904 l^2 r^2 R^5-36288 r^4 R^5-20736 r^3 R^6\big)\}$$

$$\{X48,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(63),\ X89,$$
$$\text{ISOGONAL CONJUGATE OF } X(45),\ -\frac{1}{(2 l^2-6 r^2+3 r R)^2 (3 l^2-r^2-6 r R-8 R^2)^2}$$
$$R\big(12 l^8 r+164 l^6 r^3+484 l^4 r^5-180 l^2 r^7+16 l^8 R+265 l^6 r^2 R+723 l^4 r^4 R-1557 l^2 r^6 R+81 r^8 R-224 l^6 r R^2-1688 l^4 r^3 R^2-6120 l^2 r^5 R^2+1296 r^7 R^2-64 l^6 R^3-3108 l^4 r^2 R^3-9360 l^2 r^4 R^3+8100 r^6 R^3+448 l^4 r R^4+144 l^2 r^3 R^4+24624 r^5 R^4+7920 l^2 r^2 R^5+36288 r^4 R^5+20736 r^3 R^6\big)\}$$

$$\{X48,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(63),\ X90,\ X(3)\text{-CROSS CONJUGATE OF } X(1),$$
$$\left(4R\left(6l^6r^3-2l^4r^5-6l^6r^2R-17l^4r^4R+l^2r^6R+3l^6rR^2-18l^4r^3R^2+11l^2r^5R^2+14l^4r^2R^3+34l^2r^4R^3-19l^4rR^4+40l^2r^3R^4-r^5R^4-l^4R^5+39l^2r^2R^5-12r^4R^5+48l^2rR^6-52r^3R^6+4l^2R^7-96r^2R^7-64rR^8\right)\right)\Big/\left(\left(3l^2-r^2-6rR-8R^2\right)^2\left(r^2+2rR-R^2\right)^2\right)\}$$

$$\{X48,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(63),\ X91,\ \text{ISOGONAL CONJUGATE OF } X(47),$$
$$\frac{1}{\left(3l^2-r^2-6rR-8R^2\right)^2\left(l^2r+r^3-l^2R+3r^2R+2rR^2+2R^3\right)^2}$$
$$\left(3l^{10}r^2+11l^8r^4+14l^6r^6+6l^4r^8-l^2r^{10}-r^{12}+6l^{10}rR-122l^8r^3R+212l^6r^5R-108l^4r^7R+38l^2r^9R-26r^{11}R-144l^8r^2R^2+920l^6r^4R^2-1288l^4r^6R^2+680l^2r^8R^2-296r^{10}R^2-68l^8rR^3+1792l^6r^3R^3-5000l^4r^5R^3+4384l^2r^7R^3-1940r^9R^3-4l^8R^4+1312l^6r^2R^4-9688l^4r^4R^4+14880l^2r^6R^4-8100r^8R^4+392l^6rR^5-10200l^4r^3R^5+29720l^2r^5R^5-22536r^7R^5+32l^6R^6-5424l^4r^2R^6+36192l^2r^4R^6-42512r^6R^6-1264l^4rR^7+26464l^2r^3R^7-54320r^5R^7-80l^4R^8+10672l^2r^2R^8-46144r^4R^8+1920l^2rR^9-24896r^3R^9+64l^2R^{10}-7680r^2R^{10}-1024rR^{11}\right)\}$$

$$\{X48,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(63),\ X92,$$
$$\text{CEVAPOINT OF INCENTER AND CLAWSON POINT},\ \frac{1}{\left(3l^2-r^2-6rR-8R^2\right)^2\left(l^2+r^2-4R^2\right)^2}$$
$$\left(3l^{10}+11l^8r^2+14l^6r^4+6l^4r^6-l^2r^8-r^{10}-144l^8rR+184l^6r^3R-120l^4r^5R+40l^2r^7R-24r^9R-36l^8R^2+1032l^6r^2R^2-1344l^4r^4R^2+664l^2r^6R^2-252r^8R^2+1520l^6rR^3-5072l^4r^3R^3+4048l^2r^5R^3-1520r^7R^3+160l^6R^4-8560l^4r^2R^4+12800l^2r^4R^4-5808r^6R^4-5632l^4rR^5+22528l^2r^3R^5-14592r^5R^5-320l^4R^6+21120l^2r^2R^6-24128r^4R^6+8448l^2rR^7-25344r^3R^7+256l^2R^8-15360r^2R^8-4096rR^9\right)\}$$

$$\{X48,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(63),\ X93,\ \text{ISOGONAL CONJUGATE OF } X(49),$$
$$\left(3l^{14}+17l^{12}r^2+39l^{10}r^4+45l^8r^6+25l^6r^8+3l^4r^{10}-3l^2r^{12}-r^{14}-72l^{12}rR-200l^{10}r^3R-112l^8r^5R+112l^6r^7R+88l^4r^9R-40l^2r^{11}R-32r^{13}R-18l^{12}R^2-216l^{10}r^2R^2+1734l^8r^4R^2-1312l^6r^6R^2+1178l^4r^8R^2-136l^2r^{10}R^2-462r^{12}R^2+360l^{10}rR^3+7032l^8r^3R^3-13328l^6r^5R^3+9104l^4r^7R^3+552l^2r^9R^3-3976r^{11}R^3-108l^{10}R^4+7096l^8r^2R^4-46520l^6r^4R^4+43280l^4r^6R^4+5700l^2r^8R^4-22696r^{10}R^4+1952l^8rR^5-74464l^6r^3R^5+128288l^4r^5R^5+16992l^2r^7R^5-90432r^9R^5+1146l^8R^6-54020l^6r^2R^6+233512l^4r^4R^6+13188l^2r^6R^6-257570r^8R^6-15896l^6rR^7+248328l^4r^3R^7-47112l^2r^5R^7-527528r^7R^7-3319l^6R^8+138515l^4r^2R^8-145221l^2r^4R^8-769487r^6R^8+33048l^4rR^9-173016l^2r^3R^9-777712r^5R^9+3672l^4R^{10}-95888l^2r^2R^{10}-516024r^4R^{10}-20288l^2rR^{11}-202784r^3R^{11}-1200l^2R^{12}-37744r^2R^{12}-1408rR^{13}+256R^{14}\right)\Big/\left(\left(3l^2-r^2-6rR-8R^2\right)^2\left(l^4+2l^2r^2+r^4-8l^2rR+8r^3R-8l^2R^2+24r^2R^2+32rR^3+13R^4\right)^2\right)\}$$

$$\{X48,\ \text{CROSSPOINT OF } X(1) \text{ AND } X(63),\ X94,\ \text{ISOGONAL CONJUGATE OF } X(50),$$
$$\left(3l^{14}+17l^{12}r^2+39l^{10}r^4+45l^8r^6+25l^6r^8+3l^4r^{10}-3l^2r^{12}-r^{14}-72l^{12}rR-200l^{10}r^3R-112l^8r^5R+112l^6r^7R+88l^4r^9R-40l^2r^{11}R-32r^{13}R-12l^{12}R^2-188l^{10}r^2R^2+1784l^8r^4R^2-1272l^6r^6R^2+1188l^4r^8R^2-140l^2r^{10}R^2-464r^{12}R^2+240l^{10}rR^3+6816l^8r^3R^3-13312l^6r^5R^3+9248l^4r^7R^3+528l^2r^9R^3-4032r^{11}R^3-194l^{10}R^4+7426l^8r^2R^4-46484l^6r^4R^4+43876l^4r^6R^4+5974l^2r^8R^4-23398r^{10}R^4+3488l^8rR^5-74736l^6r^3R^5+128432l^4r^5R^5+20912l^2r^7R^5-95632r^9R^5+1584l^8R^6-58724l^6r^2R^6+229764l^4r^4R^6+34356l^2r^6R^6-282852r^8R^6-22080l^6rR^7+242960l^4r^3R^7+16256l^2r^5R^7-612176r^7R^7-4041l^6R^8+141213l^4r^2R^8-32795l^2r^4R^8-968321r^6R^8+38088l^4rR^9-57480l^2r^3R^9-1104400r^5R^9+2916l^4R^{10}-33264l^2r^2R^{10}-882084r^4R^{10}-4752l^2rR^{11}-466992r^3R^{11}+1296l^2R^{12}-146880r^2R^{12}-20736rR^{13}\right)\Big/\left(\left(3l^2-r^2-6rR-8R^2\right)^2\left(l^4+2l^2r^2+r^4-8l^2rR+8r^3R-12l^2R^2+28r^2R^2+48rR^3+27R^4\right)^2\right)\}$$

{X48, CROSSPOINT OF X(1) AND X(63), X95, CEVAPOINT OF CENTROID AND CIRCUMCENTER,

$$\left(3 l^{14}+65 l^{12} r^2+215 l^{10} r^4+269 l^8 r^6+121 l^6 r^8-13 l^4 r^{10}-19 l^2 r^{12}-r^{14}-72 l^{12} r R-968 l^{10} r^3 R-752 l^8 r^5 R+752 l^6 r^7 R+216 l^4 r^9 R-424 l^2 r^{11} R-32 r^{13} R-36 l^{12} R^2-592 l^{10} r^2 R^2+4188 l^8 r^4 R^2-3392 l^6 r^6 R^2+4628 l^4 r^8 R^2-4080 l^2 r^{10} R^2-460 r^{12} R^2+720 l^{10} r R^3+10928 l^8 r^3 R^3-25248 l^6 r^5 R^3+30368 l^4 r^7 R^3-22064 l^2 r^9 R^3-3920 r^{11} R^3+160 l^{10} R^4+4240 l^8 r^2 R^4-56000 l^6 r^4 R^4+100704 l^4 r^6 R^4-73184 l^2 r^8 R^4-22000 r^{10} R^4-2560 l^8 r R^5-56960 l^6 r^3 R^5+187776 l^4 r^5 R^5-152448 l^2 r^7 R^5-85376 r^9 R^5-320 l^8 R^6-19456 l^6 r^2 R^6+201856 l^4 r^4 R^6-197120 l^2 r^6 R^6-233792 r^8 R^6+3840 l^6 r R^7+125184 l^4 r^3 R^7-156416 l^2 r^5 R^7-451840 r^7 R^7+256 l^6 R^8+39424 l^4 r^2 R^8-89856 l^2 r^4 R^8-604160 r^6 R^8-2048 l^4 r R^9-59392 l^2 r^3 R^9-532480 r^5 R^9-28672 l^2 r^2 R^{10}-278528 r^4 R^{10}-65536 r^3 R^{11}\right) \Big/ \left(\left(3 l^2-r^2-6 r R-8 R^2\right)^2 \left(l^4+18 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-4 l^2 R^2+20 r^2 R^2+16 r R^3\right)^2\right)\}$$

{X48, CROSSPOINT OF X(1) AND X(63), X96, ISOGONAL CONJUGATE OF X(52),

$$-\left(\left(3 l^{14}-31 l^{12} r^2-137 l^{10} r^4-179 l^8 r^6-71 l^6 r^8+19 l^4 r^{10}+13 l^2 r^{12}-r^{14}-72 l^{12} r R+568 l^{10} r^3 R+528 l^8 r^5 R-528 l^6 r^7 R-40 l^4 r^9 R+344 l^2 r^{11} R-32 r^{13} R-88 l^{12} R^2+1608 l^{10} r^2 R^2-3776 l^8 r^4 R^2+2512 l^6 r^6 R^2-3864 l^4 r^8 R^2+4072 l^2 r^{10} R^2-464 r^{12} R^2+1792 l^{10} r R^3-16960 l^8 r^3 R^3+29952 l^6 r^5 R^3-35584 l^4 r^7 R^3+28416 l^2 r^9 R^3-4032 r^{11} R^3+904 l^{10} R^4-23400 l^8 r^2 R^4+101872 l^6 r^4 R^4-158000 l^4 r^6 R^4+129672 l^2 r^8 R^4-23400 r^{10} R^4-15488 l^8 r R^5+163648 l^6 r^3 R^5-408000 l^4 r^5 R^5+405696 l^2 r^7 R^5-95680 r^9 R^5-4480 l^8 R^6+138784 l^6 r^2 R^6-648480 l^4 r^4 R^6+887392 l^2 r^6 R^6-283360 r^8 R^6+61952 l^6 r R^7-637824 l^4 r^3 R^7+1359104 l^2 r^5 R^7-615296 r^7 R^7+11888 l^6 R^8-377136 l^4 r^2 R^8+1437904 l^2 r^4 R^8-980624 r^6 R^8-123264 l^4 r R^9+1019776 l^2 r^3 R^9-1136896 r^5 R^9-17280 l^4 R^{10}+459008 l^2 r^2 R^{10}-940160 r^4 R^{10}+117760 l^2 r R^{11}-536064 r^3 R^{11}+13056 l^2 R^{12}-198912 r^2 R^{12}-43008 r R^{13}-4096 R^{14}\right) \Big/ \left(\left(3 l^2-r^2-6 r R-8 R^2\right)^2 \left(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2-4 R^4\right)^2\right)\right)\}$$

{X48, CROSSPOINT OF X(1) AND X(63), X97, ISOGONAL CONJUGATE OF X(53),

$$\left(R^2 \left(2 l^{12}-6 l^{10} r^2-28 l^8 r^4-28 l^6 r^6-6 l^4 r^8+2 l^2 r^{10}-8 l^{10} r R-112 l^8 r^3 R+224 l^6 r^5 R-144 l^4 r^7 R+40 l^2 r^9 R-25 l^{10} R^2+71 l^8 r^2 R^2+1066 l^6 r^4 R^2-998 l^4 r^6 R^2+335 l^2 r^8 R^2-r^{10} R^2-48 l^8 r R^3+1112 l^6 r^3 R^3-3256 l^4 r^5 R^3+1576 l^2 r^7 R^3-24 r^9 R^3+108 l^8 R^4+808 l^6 r^2 R^4-5968 l^4 r^4 R^4+4792 l^2 r^6 R^4-252 r^8 R^4+1136 l^6 r R^5-7632 l^4 r^3 R^5+10576 l^2 r^5 R^5-1520 r^7 R^5-160 l^6 R^6-8240 l^4 r^2 R^6+18432 l^2 r^4 R^6-5808 r^6 R^6-5120 l^4 r R^7+24576 l^2 r^3 R^7-14592 r^5 R^7-64 l^4 R^8+21120 l^2 r^2 R^8-24128 r^4 R^8+8448 l^2 r R^9-25344 r^3 R^9+256 l^2 R^{10}-15360 r^2 R^{10}-4096 r R^{11}\right)\right) \Big/ \left(\left(3 l^2-r^2-6 r R-8 R^2\right)^2 \left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-7 l^2 R^2+23 r^2 R^2+28 r R^3+12 R^4\right)^2\right)\}$$

{X48, CROSSPOINT OF X(1) AND X(63), X98, TarryPoint,

$$-\left(\left(3 l^{10}+11 l^8 r^2+14 l^6 r^4+6 l^4 r^6-l^2 r^8-r^{10}-48 l^8 r R-40 l^6 r^3 R+40 l^4 r^5 R+8 l^2 r^7 R-24 r^9 R-40 l^8 R^2+288 l^6 r^2 R^2-192 l^4 r^4 R^2+256 l^2 r^6 R^2-248 r^8 R^2+512 l^6 r R^3-1504 l^4 r^3 R^3+1792 l^2 r^5 R^3-1440 r^7 R^3+176 l^6 R^4-2928 l^4 r^2 R^4+5776 l^2 r^4 R^4-5136 r^6 R^4-1792 l^4 r R^5+9472 l^2 r^3 R^5-11520 r^5 R^5-256 l^4 R^6+7424 l^2 r^2 R^6-15872 r^4 R^6+2048 l^2 r R^7-12288 r^3 R^7-4096 r^2 R^8\right) \Big/ \left(\left(3 l^2-r^2-6 r R-8 R^2\right)^2 \left(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)\right)\right)\}$$

{X48, CROSSPOINT OF X(1) AND X(63), X99, STEINER POINT,

$$\left(3 l^{10}+11 l^8 r^2+14 l^6 r^4+6 l^4 r^6-l^2 r^8-r^{10}-48 l^8 r R-40 l^6 r^3 R+40 l^4 r^5 R+8 l^2 r^7 R-24 r^9 R-12 l^8 R^2-136 l^6 r^2 R^2+288 l^4 r^4 R^2+168 l^2 r^6 R^2-244 r^8 R^2+144 l^6 r R^3+1040 l^4 r^3 R^3+688 l^2 r^5 R^3-1360 r^7 R^3+16 l^6 R^4+1120 l^4 r^2 R^4+656 l^2 r^4 R^4-4480 r^6 R^4-128 l^4 r R^5-1152 l^2 r^3 R^5-8704 r^5 R^5-1792 l^2 r^2 R^6-9216 r^4 R^6-4096 r^3 R^7\right) \Big/ \left(\left(3 l^2-r^2-6 r R-8 R^2\right)^2 \left(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)\right)\}$$

{X48, CROSSPOINT OF X(1) AND X(63), X100, ANTICOMPLEMENT OF FEUERBACH POINT,

$$\left(R \left(-3 l^6-5 l^4 r^2-l^2 r^4+r^6+64 l^4 r R-48 l^2 r^3 R+16 r^5 R+12 l^4 R^2-208 l^2 r^2 R^2+100 r^4 R^2-240 l^2 r R^3+304 r^3 R^3-16 l^2 R^4+448 r^2 R^4+256 r R^5\right)\right) \Big/ \left((2 r-R) \left(-3 l^2+r^2+6 r R+8 R^2\right)^2\right)\}$$

$$\{X49,\ \text{CENTER OF SINE-TRIPLE-ANGLE CIRCLE},\ X50,\ X(74)\text{-CEVA CONJUGATE OF } X(184),$$
$$-\left(\left(R^2\left(l^{12}+6 l^{10} r^2+15 l^8 r^4+20 l^6 r^6+15 l^4 r^8+6 l^2 r^{10}+r^{12}-24 l^{10} r R-72 l^8 r^3 R-48 l^6 r^5 R+48 l^4 r^7 R+72 l^2 r^9 R+24 r^{11} R-10 l^{10} R^2+18 l^8 r^2 R^2+492 l^6 r^4 R^2-396 l^4 r^6 R^2+414 l^2 r^8 R^2+250 r^{10} R^2+200 l^8 r R^3+1184 l^6 r^3 R^3-2896 l^4 r^5 R^3+1696 l^2 r^7 R^3+1480 r^9 R^3+32 l^8 R^4+192 l^6 r^2 R^4-7296 l^4 r^4 R^4+5440 l^2 r^6 R^4+5472 r^8 R^4-512 l^6 r R^5-7424 l^4 r^3 R^5+12288 l^2 r^5 R^5+13056 r^7 R^5-30 l^6 R^6-2238 l^4 r^2 R^6+17086 l^2 r^4 R^6+19998 r^6 R^6+360 l^4 r R^7+12688 l^2 r^3 R^7+18792 r^5 R^7-9 l^4 R^8+3870 l^2 r^2 R^8+9623 r^4 R^8+72 l^2 r R^9+1848 r^3 R^9-144 r^2 R^{10}\right)\right)\Big/\left(\left(2 l^2-2 r^2-8 r R-7 R^2\right)^2\left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-3 l^2 R^2+19 r^2 R^2+12 r R^3\right)^2\right)\right)\}$$

$$\{X49,\ \text{CENTER OF SINE-TRIPLE-ANGLE CIRCLE},\ X51,$$
$$\text{CENTROID OF ORTHIC TRIANGLE},\ \frac{1}{36 R^2\left(-2 l^2+2 r^2+8 r R+7 R^2\right)^2}$$
$$\left(-4 l^8-64 l^6 r^2+136 l^4 r^4-64 l^2 r^6-4 r^8+64 l^6 r R+448 l^4 r^3 R-448 l^2 r^5 R-64 r^7 R+20 l^6 R^2+404 l^4 r^2 R^2-1300 l^2 r^4 R^2-404 r^6 R^2-240 l^4 r R^3-1888 l^2 r^3 R^3-1264 r^5 R^3-17 l^4 R^4-1138 l^2 r^2 R^4-2001 r^4 R^4+136 l^2 r R^5-1416 r^3 R^5+4 l^2 R^6-276 r^2 R^6-16 r R^7+36 R^8\right)\}$$

$$\{X49,\ \text{CENTER OF SINE-TRIPLE-ANGLE CIRCLE},\ X52,$$
$$\text{ORTHOCENTER OF ORTHIC TRIANGLE},\ \left(\left(-2 l^2+2 r^2+8 r R+9 R^2\right)\left(-2 l^6+30 l^4 r^2-30 l^2 r^4+2 r^6+24 l^4 r R-144 l^2 r^3 R+24 r^5 R+13 l^4 R^2-214 l^2 r^2 R^2+109 r^4 R^2-104 l^2 r R^3+232 r^3 R^3-24 l^2 R^4+232 r^2 R^4+96 r R^5+16 R^6\right)\right)\Big/\left(4 R^2\left(-2 l^2+2 r^2+8 r R+7 R^2\right)^2\right)\}$$

$$\{X49,\ \text{CENTER OF SINE-TRIPLE-ANGLE CIRCLE},\ X53,\ \text{SYMMEDIAN POINT OF ORTHIC TRIANGLE},$$
$$\left(8 l^{12} r^2-104 l^{10} r^4+400 l^8 r^6-400 l^6 r^8+104 l^4 r^{10}-8 l^2 r^{12}-160 l^{10} r^3 R+1408 l^8 r^5 R-3008 l^6 r^7 R+1408 l^4 r^9 R-160 l^2 r^{11} R-l^{12} R^2-106 l^{10} r^2 R^2+2113 l^8 r^4 R^2-8876 l^6 r^6 R^2+7745 l^4 r^8 R^2-1386 l^2 r^{10} R^2-r^{12} R^2+24 l^{10} r R^3+1672 l^8 r^3 R^3-13456 l^6 r^5 R^3+22672 l^4 r^7 R^3-6792 l^2 r^9 R^3-24 r^{11} R^3+12 l^{10} R^4+464 l^8 r^2 R^4-12204 l^6 r^4 R^4+39116 l^4 r^6 R^4-20736 l^2 r^8 R^4-252 r^{10} R^4-240 l^8 r R^5-6928 l^6 r^3 R^5+42688 l^4 r^5 R^5-41232 l^2 r^7 R^5-1520 r^9 R^5-47 l^8 R^6-1272 l^6 r^2 R^6+32222 l^4 r^4 R^6-55096 l^2 r^6 R^6-5807 r^8 R^6+752 l^6 r R^7+17104 l^4 r^3 R^7-52176 l^2 r^5 R^7-14576 r^7 R^7+56 l^6 R^8+4088 l^4 r^2 R^8-38296 l^2 r^4 R^8-24024 r^6 R^8-672 l^4 r R^9-21696 l^2 r^3 R^9-24992 r^5 R^9+16 l^4 R^{10}-6752 l^2 r^2 R^{10}-14704 r^4 R^{10}-128 l^2 r R^{11}-3456 r^3 R^{11}+256 r^2 R^{12}\right)\Big/\left(\left(2 l^2-2 r^2-8 r R-7 R^2\right)^2\left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-4 l^2 R^2+20 r^2 R^2+16 r R^3\right)^2\right)\}$$

$$\{X49,\ \text{CENTER OF SINE-TRIPLE-ANGLE CIRCLE},\ X54,\ \text{KosnitaPoint},$$
$$-\frac{R^4\left(2 l^2-2 r^2-8 r R-9 R^2\right)\left(2 l^4-12 l^2 r^2+2 r^4-16 l^2 r R+16 r^3 R-8 l^2 R^2+40 r^2 R^2+32 r R^3+9 R^4\right)}{\left(2 l^2-2 r^2-8 r R-7 R^2\right)^2\left(2 l^2-2 r^2-8 r R-5 R^2\right)^2}\}$$

$$\{X49,\ \text{CENTER OF SINE-TRIPLE-ANGLE CIRCLE},\ X55,\ \text{INSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),$$
$$-\left(\left(R^2\left(-7 l^4 r^2+10 l^2 r^4+r^6+6 l^4 r R+20 l^2 r^3 R+14 r^5 R+l^4 R^2-28 l^2 r^2 R^2+75 r^4 R^2-54 l^2 r R^3+190 r^3 R^3-4 l^2 R^4+224 r^2 R^4+98 r R^5-R^6\right)\right)\Big/\left((r+R)^2\left(-2 l^2+2 r^2+8 r R+7 R^2\right)^2\right)\right)\}$$

$$\{X49,\ \text{CENTER OF SINE-TRIPLE-ANGLE CIRCLE},\ X56,\ \text{EXSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),$$
$$\left(R^2\left(-l^4 r^2-10 l^2 r^4+7 r^6-2 l^4 r R+4 l^2 r^3 R+38 r^5 R-l^4 R^2+40 l^2 r^2 R^2+33 r^4 R^2+30 l^2 r R^3-110 r^3 R^3+4 l^2 R^4-184 r^2 R^4-74 r R^5+R^6\right)\right)\Big/\left((r-R)^2\left(-2 l^2+2 r^2+8 r R+7 R^2\right)^2\right)\}$$

$$\{X49,\ \text{CENTER OF SINE-TRIPLE-ANGLE CIRCLE},\ X57,\ \text{ISOGONAL CONJUGATE OF } X(9),$$
$$-\left(\left(R\left(12 l^4 r^3-16 l^2 r^5+4 r^7+17 l^4 r^2 R-102 l^2 r^4 R+57 r^6 R+12 l^4 r R^2-286 l^2 r^3 R^2+326 r^5 R^2+4 l^4 R^3-308 l^2 r^2 R^3+948 r^4 R^3-136 l^2 r R^4+1446 r^3 R^4-16 l^2 R^5+1055 r^2 R^5+292 r R^6-4 R^7\right)\right)\Big/\left((r-2 R)^2\left(-2 l^2+2 r^2+8 r R+7 R^2\right)^2\right)\right)\}$$

$$\{X49,\ \text{CENTER OF SINE-TRIPLE-ANGLE CIRCLE},\ X58,\ \text{ISOGONAL CONJUGATE OF } X(10),$$
$$-\left(\left(R^2\left(l^8+12 l^6 r^2+14 l^4 r^4-4 l^2 r^6-7 r^8-16 l^6 r R-64 l^4 r^3 R-80 l^2 r^5 R-32 r^7 R-4 l^6 R^2-92 l^4 r^2 R^2-44 l^2 r^4 R^2+44 r^6 R^2+48 l^4 r R^3+352 l^2 r^3 R^3+432 r^5 R^3-l^4 R^4+374 l^2 r^2 R^4+711 r^4 R^4+8 l^2 r R^5+344 r^3 R^5-16 r^2 R^6\right)\right)\Big/\left(\left(l^2-3 r^2-4 r R\right)^2\left(2 l^2-2 r^2-8 r R-7 R^2\right)^2\right)\right)\}$$

$$\Big\{\text{X49, CENTER OF SINE-TRIPLE-ANGLE CIRCLE, X59, ISOGONAL CONJUGATE OF X(11)}, \frac{1}{(2r-R)\left(-l^2+r^2+5rR+4R^2\right)^2\left(-2l^2+2r^2+8rR+7R^2\right)^2}$$
$$R^3\left(l^8-2l^6r^2-4l^4r^4+2l^2r^6+3r^8-31l^6rR+103l^4r^3R-101l^2r^5R+53r^7R-12l^6R^2+282l^4r^2R^2-648l^2r^4R^2+386r^6R^2+323l^4rR^3-1610l^2r^3R^3+1507r^5R^3+47l^4R^4-1992l^2r^2R^4+3441r^4R^4-1082l^2rR^5+4672r^3R^5-56l^2R^6+3535r^2R^6+1144rR^7-16R^8\right)\Big\}$$

$$\Big\{\text{X49, CENTER OF SINE-TRIPLE-ANGLE CIRCLE, X60, ISOGONAL CONJUGATE OF X(12)}, -\frac{1}{\left(2l^2-2r^2-8rR-7R^2\right)^2\left(2l^2r-2r^3+l^2R-7r^2R-7rR^2\right)^2}$$
$$R^3\left(2l^8r-4l^6r^3-8l^4r^5+4l^2r^7+6r^9+l^8R-12l^6r^2R-58l^4r^4R+84l^2r^6R+65r^8R-25l^6rR^2-99l^4r^3R^2+405l^2r^5R^2+287r^7R^2-4l^6R^3-32l^4r^2R^3+876l^2r^4R^3+664r^6R^3+47l^4rR^4+930l^2r^3R^4+851r^5R^4-l^4R^5+420l^2r^2R^5+553r^4R^5+14l^2rR^6+98r^3R^6-49r^2R^7\right)\Big\}$$

$$\Big\{\text{X49, CENTER OF SINE-TRIPLE-ANGLE CIRCLE, X61, ISOGONAL CONJUGATE OF X(17)}, \frac{1}{\left(3l^2+2\sqrt{3}\,lr-3r^2-12rR\right)^2\left(2l^2-2r^2-8rR-7R^2\right)^2}$$
$$3R^2\left(-3l^8-4\sqrt{3}\,l^7r-36l^6r^2+60\sqrt{3}\,l^5r^3+62l^4r^4-60\sqrt{3}\,l^3r^5-36l^2r^6+4\sqrt{3}\,lr^7-3r^8+48l^6rR+48\sqrt{3}\,l^5r^2R+240l^4r^3R-288\sqrt{3}\,l^3r^4R-240l^2r^5R+48\sqrt{3}\,lr^6R-48r^7R+12l^6R^2+24\sqrt{3}\,l^5rR^2+268l^4r^2R^2-464\sqrt{3}\,l^3r^3R^2-748l^2r^4R^2+216\sqrt{3}\,lr^5R^2-300r^6R^2-144l^4rR^3-192\sqrt{3}\,l^3r^2R^3-1312l^2r^3R^3+448\sqrt{3}\,lr^4R^3-912r^5R^3+3l^4R^4-24\sqrt{3}\,l^3rR^4-1050l^2r^2R^4+408\sqrt{3}\,lr^3R^4-1341r^4R^4-24l^2rR^5+96\sqrt{3}\,lr^2R^5-744r^3R^5+48r^2R^6\right)\Big\}$$

$$\Big\{\text{X49, CENTER OF SINE-TRIPLE-ANGLE CIRCLE, X62, ISOGONAL CONJUGATE OF X(18)}, \frac{1}{\left(3l^2-2\sqrt{3}\,lr-3r^2-12rR\right)^2\left(2l^2-2r^2-8rR-7R^2\right)^2}$$
$$3R^2\left(-3l^8+4\sqrt{3}\,l^7r-36l^6r^2-60\sqrt{3}\,l^5r^3+62l^4r^4+60\sqrt{3}\,l^3r^5-36l^2r^6-4\sqrt{3}\,lr^7-3r^8+48l^6rR-48\sqrt{3}\,l^5r^2R+240l^4r^3R+288\sqrt{3}\,l^3r^4R-240l^2r^5R-48\sqrt{3}\,lr^6R-48r^7R+12l^6R^2-24\sqrt{3}\,l^5rR^2+268l^4r^2R^2+464\sqrt{3}\,l^3r^3R^2-748l^2r^4R^2-216\sqrt{3}\,lr^5R^2-300r^6R^2-144l^4rR^3+192\sqrt{3}\,l^3r^2R^3-1312l^2r^3R^3-448\sqrt{3}\,lr^4R^3-912r^5R^3+3l^4R^4+24\sqrt{3}\,l^3rR^4-1050l^2r^2R^4-408\sqrt{3}\,lr^3R^4-1341r^4R^4-24l^2rR^5-96\sqrt{3}\,lr^2R^5-744r^3R^5+48r^2R^6\right)\Big\}$$

$$\Big\{\text{X49, CENTER OF SINE-TRIPLE-ANGLE CIRCLE, X63, ISOGONAL CONJUGATE OF X(19)}, -\Big(\Big(R\left(-6l^6r+14l^4r^3-10l^2r^5+2r^7-2l^6R+75l^4r^2R-100l^2r^4R+31r^6R+89l^4rR^2-372l^2r^3R^2+195r^5R^2+12l^4R^3-582l^2r^2R^3+634r^4R^3-331l^2rR^4+1115r^3R^4-18l^2R^5+995r^2R^5+350rR^6-R^7\right)\Big)\Big/\Big((r+R)^2\left(-2l^2+2r^2+8rR+7R^2\right)^2\Big)\Big)\Big\}$$

$$\Big\{\text{X49, CENTER OF SINE-TRIPLE-ANGLE CIRCLE, X64, ISOGONAL CONJUGATE OF X(20)}, \frac{1}{(l-r-2R)^2(l+r+2R)^2\left(2l^2-2r^2-8rR-7R^2\right)^2}$$
$$R^2\left(39l^8-144l^6r^2+210l^4r^4-144l^2r^6+39r^8-624l^6rR+1776l^4r^3R-1776l^2r^5R+624r^7R-664l^6R^2+5656l^4r^2R^2-9208l^2r^4R^2+4408r^6R^2+7968l^4rR^3-25600l^2r^3R^3+17952r^5R^3+4165l^4R^4-40070l^2r^2R^4+46021r^4R^4-33320l^2rR^5+75816r^3R^5-11448l^2R^6+78088r^2R^6+45792rR^7+11664R^8\right)\Big\}$$

$$\Big\{\text{X49, CENTER OF SINE-TRIPLE-ANGLE CIRCLE, X65, ORTHOCENTER OF THE INTOUCH TRIANGLE}, \left(-8l^4r^3+16l^2r^5-8r^7-8l^4r^2R+88l^2r^4R-80r^6R-4l^4rR^2+160l^2r^3R^2-316r^5R^2-l^4R^3+116l^2r^2R^3-627r^4R^3+38l^2rR^4-656r^3R^4+4l^2R^5-343r^2R^5-72rR^6+R^7\right)\Big/\left(R\left(-2l^2+2r^2+8rR+7R^2\right)^2\right)\Big\}$$

$$\{X49,\ \text{CENTER OF SINE-TRIPLE-ANGLE CIRCLE},\ X66,\ \text{ISOGONAL CONJUGATE OF } X(22),$$
$$-\Big(\big(2 l^{14} - 38 l^{12} r^2 + 162 l^{10} r^4 - 310 l^8 r^6 + 310 l^6 r^8 - 162 l^4 r^{10} + 38 l^2 r^{12} - 2 r^{14} - 56 l^{12} r R + 816 l^{10} r^3 R - 2760 l^8 r^5 R + 4000 l^6 r^7 R - 2760 l^4 r^9 R + 816 l^2 r^{11} R - 56 r^{13} R - 24 l^{12} R^2 + 1152 l^{10} r^2 R^2 - 8904 l^8 r^4 R^2 + 20736 l^6 r^6 R^2 - 19944 l^4 r^8 R^2 + 7680 l^2 r^{10} R^2 - 696 r^{12} R^2 + 576 l^{10} r R^3 - 12736 l^8 r^3 R^3 + 55168 l^6 r^5 R^3 - 79488 l^4 r^7 R^3 + 41536 l^2 r^9 R^3 - 5056 r^{11} R^3 + 101 l^{10} R^4 - 8069 l^8 r^2 R^4 + 79638 l^6 r^4 R^4 - 189974 l^4 r^6 R^4 + 142085 l^2 r^8 R^4 - 23781 r^{10} R^4 - 2020 l^8 r R^5 + 60448 l^6 r^3 R^5 - 276600 l^4 r^5 R^5 + 318496 l^2 r^7 R^5 - 75748 r^9 R^5 - 168 l^8 R^6 + 21404 l^6 r^2 R^6 - 237384 l^4 r^4 R^6 + 467996 l^2 r^6 R^6 - 165832 r^8 R^6 + 2688 l^6 r R^7 - 109280 l^4 r^3 R^7 + 436832 l^2 r^5 R^7 - 247552 r^7 R^7 + 84 l^6 R^8 - 21756 l^4 r^2 R^8 + 240316 l^2 r^4 R^8 - 243796 r^6 R^8 - 1008 l^4 r R^9 + 66528 l^2 r^3 R^9 - 147440 r^5 R^9 - 16 l^4 R^{10} + 6416 l^2 r^2 R^{10} - 47056 r^4 R^{10} + 128 l^2 r R^{11} - 5504 r^3 R^{11} - 256 r^2 R^{12}\big) \Big/ \big((l - r - 2R)^2 (l + r + 2R)^2 (l^2 - r^2 - 4 r R)^2 (2 l^2 - 2 r^2 - 8 r R - 7 R^2)^2\big)\Big)\}$$

$$\{X49,\ \text{CENTER OF SINE-TRIPLE-ANGLE CIRCLE},\ X67,\ \text{ISOGONAL CONJUGATE OF } X(23),$$
$$\big(64 l^{10} r^2 - 256 l^8 r^4 + 384 l^6 r^6 - 256 l^4 r^8 + 64 l^2 r^{10} - 1024 l^8 r^3 R + 3072 l^6 r^5 R - 3072 l^4 r^7 R + 1024 l^2 r^9 R - 832 l^8 r^2 R^2 + 8640 l^6 r^4 R^2 - 14784 l^4 r^6 R^2 + 6976 l^2 r^8 R^2 + 9984 l^6 r^3 R^3 - 36352 l^4 r^5 R^3 + 26368 l^2 r^7 R^3 + 2 l^8 R^4 + 3856 l^6 r^2 R^4 - 47652 l^4 r^4 R^4 + 60176 l^2 r^6 R^4 + 2 r^8 R^4 - 32 l^6 r R^5 - 30816 l^4 r^3 R^5 + 84064 l^2 r^5 R^5 + 32 r^7 R^5 - 6 l^6 R^6 - 7350 l^4 r^2 R^6 + 68982 l^2 r^4 R^6 + 198 r^6 R^6 + 72 l^4 r R^7 + 29584 l^2 r^3 R^7 + 584 r^5 R^7 - 9 l^4 R^8 + 5022 l^2 r^2 R^8 + 791 r^4 R^8 + 72 l^2 r R^9 + 312 r^3 R^9 - 144 r^2 R^{10}\big) \Big/ \big((l^2 - r^2 - 4 r R)^2 (2 l^2 - 2 r^2 - 8 r R - 9 R^2) (2 l^2 - 2 r^2 - 8 r R - 7 R^2)^2\big)\}$$

$$\{X49,\ \text{CENTER OF SINE-TRIPLE-ANGLE CIRCLE},\ X68,$$
$$\text{PRASOLOV POINT},\ -\frac{1}{(l - r - 2R)^2 (l + r + 2R)^2 (2 l^2 - 2 r^2 - 8 r R - 7 R^2)^2}$$
$$\big(2 l^{10} - 34 l^8 r^2 + 92 l^6 r^4 - 92 l^4 r^6 + 34 l^2 r^8 - 2 r^{10} - 40 l^8 r R + 448 l^6 r^3 R - 816 l^4 r^5 R + 448 l^2 r^7 R - 40 r^9 R - 32 l^8 R^2 + 752 l^6 r^2 R^2 - 2912 l^4 r^4 R^2 + 2544 l^2 r^6 R^2 - 352 r^8 R^2 + 512 l^6 r R^3 - 5248 l^4 r^3 R^3 + 8064 l^2 r^5 R^3 - 1792 r^7 R^3 + 189 l^6 R^4 - 4899 l^4 r^2 R^4 + 15395 l^2 r^4 R^4 - 5821 r^6 R^4 - 2268 l^4 r R^5 + 17768 l^2 r^3 R^5 - 12508 r^5 R^5 - 514 l^4 R^6 + 11816 l^2 r^2 R^6 - 17778 r^4 R^6 + 4112 l^2 r R^7 - 16208 r^3 R^7 + 648 l^2 R^8 - 8872 r^2 R^8 - 2592 r R^9 - 324 R^{10}\big)\}$$

$$\{X49,\ \text{CENTER OF SINE-TRIPLE-ANGLE CIRCLE},\ X69,$$
$$\text{SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},\ \frac{1}{(l^2 - r^2 - 4 r R)^2 (2 l^2 - 2 r^2 - 8 r R - 7 R^2)^2}$$
$$\big(2 l^{10} + 30 l^8 r^2 - 100 l^6 r^4 + 100 l^4 r^6 - 30 l^2 r^8 - 2 r^{10} - 40 l^8 r R - 320 l^6 r^3 R + 720 l^4 r^5 R - 320 l^2 r^7 R - 40 r^9 R - 12 l^8 R^2 - 144 l^6 r^2 R^2 + 1912 l^4 r^4 R^2 - 1424 l^2 r^6 R^2 - 332 r^8 R^2 + 192 l^6 r R^3 + 2240 l^4 r^3 R^3 - 3520 l^2 r^5 R^3 - 1472 r^7 R^3 + 18 l^6 R^4 + 754 l^4 r^2 R^4 - 5234 l^2 r^4 R^4 - 3730 r^6 R^4 - 216 l^4 r R^5 - 4336 l^2 r^3 R^5 - 5336 r^5 R^5 + l^4 R^6 - 1490 l^2 r^2 R^6 - 3935 r^4 R^6 - 8 l^2 r R^7 - 1144 r^3 R^7 + 16 r^2 R^8\big)\}$$

$$\{X49,\ \text{CENTER OF SINE-TRIPLE-ANGLE CIRCLE},\ X70,\ \text{ISOGONAL CONJUGATE OF } X(26),$$
$$-\Big(\big(2 l^{14} - 38 l^{12} r^2 + 162 l^{10} r^4 - 310 l^8 r^6 + 310 l^6 r^8 - 162 l^4 r^{10} + 38 l^2 r^{12} - 2 r^{14} - 56 l^{12} r R + 816 l^{10} r^3 R - 2760 l^8 r^5 R + 4000 l^6 r^7 R - 2760 l^4 r^9 R + 816 l^2 r^{11} R - 56 r^{13} R - 36 l^{12} R^2 + 1304 l^{10} r^2 R^2 - 9404 l^8 r^4 R^2 + 21456 l^6 r^6 R^2 - 20444 l^4 r^8 R^2 + 7832 l^2 r^{10} R^2 - 708 r^{12} R^2 + 864 l^{10} r R^3 - 15456 l^8 r^3 R^3 + 61888 l^6 r^5 R^3 - 86208 l^4 r^7 R^3 + 44256 l^2 r^9 R^3 - 5344 r^{11} R^3 + 265 l^{10} R^4 - 12809 l^8 r^2 R^4 + 103598 l^6 r^4 R^4 - 227374 l^4 r^6 R^4 + 163145 l^2 r^8 R^4 - 26825 r^{10} R^4 - 5300 l^8 r R^5 + 101408 l^6 r^3 R^5 - 387800 l^4 r^5 R^5 + 410656 l^2 r^7 R^5 - 94388 r^9 R^5 - 1025 l^8 R^6 + 56060 l^6 r^2 R^6 - 427222 l^4 r^4 R^6 + 717692 l^2 r^6 R^6 - 239009 r^8 R^6 + 16400 l^6 r R^7 - 295280 l^4 r^3 R^7 + 868080 l^2 r^5 R^7 - 439952 r^7 R^7 + 2229 l^6 R^8 - 120851 l^4 r^2 R^8 + 711411 l^2 r^4 R^8 - 587285 r^6 R^8 - 26748 l^4 r R^9 + 378952 l^2 r^3 R^9 - 560508 r^5 R^9 - 2704 l^4 R^{10} + 122592 l^2 r^2 R^{10} - 372096 r^4 R^{10} + 21632 l^2 r R^{11} - 164288 r^3 R^{11} + 1694 l^2 R^{12} - 44958 r^2 R^{12} - 6776 r R^{13} - 441 R^{14}\big) \Big/ \big((2 l^2 - 2 r^2 - 8 r R - 7 R^2)^2 (l^4 - 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 6 l^2 R^2 + 22 r^2 R^2 + 24 r R^3 + 7 R^4)^2\big)\Big)\}$$

$$\left\{\text{X49, CENTER OF SINE-TRIPLE-ANGLE CIRCLE, X71, ISOGONAL CONJUGATE OF X(27)}, \frac{1}{\left(2 l^2-2 r^2-8 r R-7 R^2\right)^2 \left(l^2+r^2+6 r R+8 R^2\right)^2} R^2 \left(39 l^8-124 l^6 r^2+82 l^4 r^4-12 l^2 r^6-r^8-388 l^6 r R+548 l^4 r^3 R-108 l^2 r^5 R-20 r^7 R-272 l^6 R^2+1368 l^4 r^2 R^2-384 l^2 r^4 R^2-168 r^6 R^2+1488 l^4 r R^3-688 l^2 r^3 R^3-768 r^5 R^3+581 l^4 R^4-714 l^2 r^2 R^4-2063 r^4 R^4-548 l^2 r R^5-3252 r^3 R^5-288 l^2 R^6-2764 r^2 R^6-928 r R^7+64 R^8\right)\right\}$$

$$\left\{\text{X49, CENTER OF SINE-TRIPLE-ANGLE CIRCLE, X72, ISOGONAL CONJUGATE OF X(28)}, \left(4 l^6 r-12 l^4 r^3+12 l^2 r^5-4 r^7+2 l^6 R-54 l^4 r^2 R+102 l^2 r^4 R-50 r^6 R-76 l^4 r R^2+336 l^2 r^3 R^2-260 r^5 R^2-12 l^4 R^3+506 l^2 r^2 R^3-722 r^4 R^3+305 l^2 r R^4-1133 r^3 R^4+18 l^2 R^5-955 r^2 R^5-338 r R^6+R^7\right) \Big/ \left(R \left(-2 l^2+2 r^2+8 r R+7 R^2\right)^2\right)\right\}$$

$$\left\{\text{X49, CENTER OF SINE-TRIPLE-ANGLE CIRCLE, X73, CROSSPOINT OF INCENTER AND CIRCUMCENTER}, -\frac{1}{\left(2 l^2-2 r^2-8 r R-7 R^2\right)^2 \left(l^2+r^2-2 r R-4 R^2\right)^2} R^2 \left(l^8+12 l^6 r^2-82 l^4 r^4+124 l^2 r^6-39 r^8-28 l^6 r R-164 l^4 r^3 R+716 l^2 r^5 R-428 r^7 R-12 l^6 R^2+84 l^4 r^2 R^2+1388 l^2 r^4 R^2-1844 r^6 R^2+296 l^4 r R^3+576 l^2 r^3 R^3-3816 r^5 R^3+47 l^4 R^4-1126 l^2 r^2 R^4-3413 r^4 R^4-1020 l^2 r R^5+196 r^3 R^5-56 l^2 R^6+2388 r^2 R^6+1136 r R^7-16 R^8\right)\right\}$$

$$\left\{\text{X49, CENTER OF SINE-TRIPLE-ANGLE CIRCLE, X74, ISOGONAL CONJUGATE OF EULER INFINITY POINT}, \left(R^2 \left(28 l^6-100 l^4 r^2+100 l^2 r^4-28 r^6-336 l^4 r R+736 l^2 r^3 R-336 r^5 R-316 l^4 R^2+2040 l^2 r^2 R^2-1660 r^4 R^2+2528 l^2 r R^3-4320 r^3 R^3+1196 l^2 R^4-6252 r^2 R^4-4784 r R^5-1521 R^6\right)\right) \Big/ \left(\left(2 l^2-2 r^2-8 r R-9 R^2\right) \left(2 l^2-2 r^2-8 r R-7 R^2\right)^2\right)\right\}$$

$$\left\{\text{X49, CENTER OF SINE-TRIPLE-ANGLE CIRCLE, X75, ISOTOMIC CONJUGATE OF INCENTER}, \frac{1}{\left(l^2+r^2+4 r R\right)^2 \left(2 l^2-2 r^2-8 r R-7 R^2\right)^2} \left(2 l^{10}+6 l^8 r^2+4 l^6 r^4-4 l^4 r^6-6 l^2 r^8-2 r^{10}-56 l^8 r R+144 l^6 r^3 R-224 l^4 r^5 R+48 l^2 r^7 R-40 r^9 R-12 l^8 R^2+384 l^6 r^2 R^2-1256 l^4 r^4 R^2+832 l^2 r^6 R^2-332 r^8 R^2+312 l^6 r R^3-2384 l^4 r^3 R^3+3512 l^2 r^5 R^3-1472 r^7 R^3+18 l^6 R^4-1726 l^4 r^2 R^4+6430 l^2 r^4 R^4-3730 r^6 R^4-432 l^4 r R^5+5336 l^2 r^3 R^5-5336 r^5 R^5+l^4 R^6+1618 l^2 r^2 R^6-3935 r^4 R^6+8 l^2 r R^7-1144 r^3 R^7+16 r^2 R^8\right)\right\}$$

$$\left\{\text{X49, CENTER OF SINE-TRIPLE-ANGLE CIRCLE, X76, 3rd BROCARD POINT}, \left(2 l^{14}+10 l^{12} r^2+18 l^{10} r^4+10 l^8 r^6-10 l^6 r^8-18 l^4 r^{10}-10 l^2 r^{12}-2 r^{14}-56 l^{12} r R-144 l^{10} r^3 R-72 l^8 r^5 R+32 l^6 r^7 R-72 l^4 r^9 R-144 l^2 r^{11} R-56 r^{13} R-12 l^{12} R^2+360 l^{10} r^2 R^2+1388 l^8 r^4 R^2-1872 l^6 r^6 R^2+1100 l^4 r^8 R^2-792 l^2 r^{10} R^2-684 r^{12} R^2+288 l^{10} r R^3+224 l^8 r^3 R^3-9408 l^6 r^5 R^3+9664 l^4 r^7 R^3-2144 l^2 r^9 R^3-4768 r^{11} R^3+18 l^{10} R^4-1290 l^8 r^2 R^4-13020 l^6 r^4 R^4+31836 l^4 r^6 R^4-3894 l^2 r^8 R^4-20818 r^{10} R^4-360 l^8 r R^5-3360 l^6 r^3 R^5+50320 l^4 r^5 R^5-9504 l^2 r^7 R^5-58728 r^9 R^5+l^8 R^6+644 l^6 r^2 R^6+33990 l^4 r^4 R^6-23036 l^2 r^6 R^6-106303 r^8 R^6-16 l^6 r R^7+6384 l^4 r^3 R^7-28656 l^2 r^5 R^7-118000 r^7 R^7+96 l^4 r^2 R^8-12864 l^2 r^4 R^8-72096 r^6 R^8-256 l^2 r^3 R^9-18176 r^5 R^9+256 r^4 R^{10}\right) \Big/ \left(\left(2 l^2-2 r^2-8 r R-7 R^2\right)^2 \left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)^2\right)\right\}$$

$$\left\{\text{X49, CENTER OF SINE-TRIPLE-ANGLE CIRCLE, X77, ISOGONAL CONJUGATE OF X(33)}, -\frac{1}{\left(2 l^2-2 r^2-8 r R-7 R^2\right)^2 \left(l^2-r R-4 R^2\right)^2} R \left(2 l^8 r-10 l^6 r^3+14 l^4 r^5-6 l^2 r^7+l^8 R-44 l^6 r^2 R+119 l^4 r^4 R-74 l^2 r^6 R+2 r^8 R-51 l^6 r R^2+396 l^4 r^3 R^2-425 l^2 r^5 R^2+40 r^7 R^2-12 l^6 R^3+618 l^4 r^2 R^3-1426 l^2 r^4 R^3+332 r^6 R^3+383 l^4 r R^4-2759 l^2 r^3 R^4+1472 r^5 R^4+47 l^4 R^5-2752 l^2 r^2 R^5+3730 r^4 R^5-1130 l^2 r R^6+5336 r^3 R^6-56 l^2 R^7+3935 r^2 R^7+1144 r R^8-16 R^9\right)\right\}$$

$$\{X49,\ \text{CENTER OF SINE-TRIPLE-ANGLE CIRCLE},\ X78,\ \text{ISOGONAL CONJUGATE OF } X(34),$$
$$-\left(\left(R\left(-2 l^6 r+10 l^4 r^3-14 l^2 r^5+6 r^7-2 l^6 R+27 l^4 r^2 R-84 l^2 r^4 R+63 r^6 R+63 l^4 r R^2-252 l^2 r^3 R^2+277 r^5 R^2+12 l^4 R^3-390 l^2 r^2 R^3+674 r^4 R^3-279 l^2 r R^4+991 r^3 R^4-18 l^2 R^5+843 r^2 R^5+326 r R^6-R^7\right)\right)\Big/\left((r-R)^2\left(-2 l^2+2 r^2+8 r R+7 R^2\right)^2\right)\right)\}$$

$$\{X49,\ \text{CENTER OF SINE-TRIPLE-ANGLE CIRCLE},\ X79,\ \text{ISOGONAL CONJUGATE OF } X(35),$$
$$\left(-40 l^6 r^2+120 l^4 r^4-88 l^2 r^6+8 r^8-12 l^6 r R+468 l^4 r^3 R-692 l^2 r^5 R+108 r^7 R+480 l^4 r^2 R^2-2016 l^2 r^4 R^2+576 r^6 R^2+54 l^4 r R^3-2532 l^2 r^3 R^3+1510 r^5 R^3-9 l^4 R^4-1062 l^2 r^2 R^4+1891 r^4 R^4+144 l^2 r R^5+648 r^3 R^5+36 l^2 R^6-716 r^2 R^6-510 r R^7+9 R^8\right)\Big/\left((2 r+3 R)^2\left(-2 l^2+2 r^2+8 r R+7 R^2\right)^2\right)\}$$

$$\{X49,\ \text{CENTER OF SINE-TRIPLE-ANGLE CIRCLE},\ X80,\ \text{REFLECTION OF INCENTER IN FEUERBACH POINT},$$
$$\left(-4 l^6 r+44 l^4 r^3-60 l^2 r^5+20 r^7+56 l^4 r^2 R-320 l^2 r^4 R+200 r^6 R+36 l^4 r R^2-560 l^2 r^3 R^2+780 r^5 R^2+l^4 R^3-378 l^2 r^2 R^3+1493 r^4 R^3-112 l^2 r R^4+1448 r^3 R^4-4 l^2 R^5+660 r^2 R^5+116 r R^6-R^7\right)\Big/\left((2 r-R)\left(-2 l^2+2 r^2+8 r R+7 R^2\right)^2\right)\}$$

$$\{X49,\ \text{CENTER OF SINE-TRIPLE-ANGLE CIRCLE},\ X81,$$
$$\text{CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},\ -\frac{1}{\left(l^2-r^2-r R\right)^2\left(2 l^2-2 r^2-8 r R-7 R^2\right)^2}$$
$$R\left(2 l^8 r-4 l^4 r^5+2 r^9+l^8 R-14 l^6 r^2 R-32 l^4 r^4 R+14 l^2 r^6 R+31 r^8 R-27 l^6 r R^2-67 l^4 r^3 R^2+123 l^2 r^5 R^2+195 r^7 R^2-4 l^6 R^3+2 l^4 r^2 R^3+432 l^2 r^4 R^3+634 r^6 R^3+59 l^4 r R^4+638 l^2 r^3 R^4+1115 r^5 R^4-l^4 R^5+330 l^2 r^2 R^5+995 r^4 R^5+2 l^2 r R^6+350 r^3 R^6-r^2 R^7\right)\}$$

$$\{X49,\ \text{CENTER OF SINE-TRIPLE-ANGLE CIRCLE},\ X82,\ \text{ISOGONAL CONJUGATE OF } X(38),$$
$$-\left(\left(R\left(2 l^{12} r+4 l^{10} r^3-2 l^8 r^5-8 l^6 r^7-2 l^4 r^9+4 l^2 r^{11}+2 r^{13}+l^{12} R-52 l^{10} r^2 R-27 l^8 r^4 R+32 l^6 r^6 R-21 l^4 r^8 R+20 l^2 r^{10} R+47 r^{12} R-43 l^{10} r R^2+507 l^8 r^3 R^2-350 l^6 r^5 R^2+374 l^4 r^7 R^2-311 l^2 r^9 R^2+463 r^{11} R^2-4 l^{10} R^3+570 l^8 r^2 R^3-2708 l^6 r^4 R^3+3584 l^4 r^6 R^3-3208 l^2 r^8 R^3+2470 r^{10} R^3+123 l^8 r R^4-3282 l^6 r^3 R^4+9728 l^4 r^5 R^4-11710 l^2 r^7 R^4+7669 r^9 R^4-l^8 R^5-1052 l^6 r^2 R^5+9358 l^4 r^4 R^5-19556 l^2 r^6 R^5+13747 r^8 R^5+18 l^6 r R^6+3146 l^4 r^3 R^6-13642 l^2 r^5 R^6+12926 r^7 R^6-137 l^4 r^2 R^7-2234 l^2 r^4 R^7+4399 r^6 R^7+504 l^2 r^3 R^8-1064 r^5 R^8-784 r^4 R^9\right)\right)\Big/\left(\left(2 l^2-2 r^2-8 r R-7 R^2\right)^2\left(l^4-4 l^2 r^2+3 r^4-9 l^2 r R+19 r^3 R+28 r^2 R^2\right)^2\right)\right)\}$$

$$\{X49,\ \text{CENTER OF SINE-TRIPLE-ANGLE CIRCLE},\ X83,\ \text{CEVAPOINT OF CENTROID AND SYMMEDIAN POINT},$$
$$-\left(\left(6 l^{14}-2 l^{12} r^2-42 l^{10} r^4-34 l^8 r^6+34 l^6 r^8+42 l^4 r^{10}+2 l^2 r^{12}-6 r^{14}-168 l^{12} r R+208 l^{10} r^3 R+296 l^8 r^5 R-160 l^6 r^7 R+296 l^4 r^9 R+208 l^2 r^{11} R-168 r^{13} R-32 l^{12} R^2+1728 l^{10} r^2 R^2-3520 l^8 r^4 R^2+3328 l^6 r^6 R^2-2336 l^4 r^8 R^2+3392 l^2 r^{10} R^2-2048 r^{12} R^2+768 l^{10} r R^3-9600 l^8 r^3 R^3+23040 l^6 r^5 R^3-26368 l^4 r^7 R^3+24320 l^2 r^9 R^3-14208 r^{11} R^3+26 l^{10} R^4-6802 l^8 r^2 R^4+41300 l^6 r^4 R^4-87380 l^4 r^6 R^4+93842 l^2 r^8 R^4-61466 r^{10} R^4-520 l^8 r R^5+30944 l^6 r^3 R^5-130608 l^4 r^5 R^5+207072 l^2 r^7 R^5-170504 r^9 R^5-25 l^8 R^6+6012 l^6 r^2 R^6-94230 l^4 r^4 R^6+260860 l^2 r^6 R^6-299097 r^8 R^6+400 l^6 r R^7-31856 l^4 r^3 R^7+180592 l^2 r^5 R^7-311952 r^7 R^7-2400 l^4 r^2 R^8+66112 l^2 r^4 R^8-166752 r^6 R^8+6400 l^2 r^3 R^9-33024 r^5 R^9-6400 r^4 R^{10}\right)\Big/\left(\left(2 l^2-2 r^2-8 r R-7 R^2\right)^2\left(5 l^4-6 l^2 r^2+5 r^4-40 l^2 r R+40 r^3 R+80 r^2 R^2\right)^2\right)\right)\}$$

$$\{X49,\ \text{CENTER OF SINE-TRIPLE-ANGLE CIRCLE},\ X84,\ \text{ISOGONAL CONJUGATE OF } X(40),$$
$$-\left(\left(R\left(-12 l^6 r+16 l^4 r^3-4 l^2 r^5+16 l^6 R+73 l^4 r^2 R-54 l^2 r^4 R+r^6 R-50 l^4 r R^2-154 l^2 r^3 R^2+8 r^5 R^2-176 l^4 R^3+152 l^2 r^2 R^3-44 r^4 R^3+850 l^2 r R^4-512 r^3 R^4+644 l^2 R^5-1537 r^2 R^5-1848 r R^6-784 R^7\right)\right)\Big/\left(r^2\left(-2 l^2+2 r^2+8 r R+7 R^2\right)^2\right)\right)\}$$

$$\{X49,\ \text{CENTER OF SINE-TRIPLE-ANGLE CIRCLE},\ X85,$$
$$\text{ISOTOMIC CONJUGATE OF } X(9),\ \frac{1}{\left(2 l^2-2 r^2-8 r R-7 R^2\right)^2\left(l^2+r^2+8 r R+16 R^2\right)^2}$$
$$\left(2 l^{10}+6 l^8 r^2+4 l^6 r^4-4 l^4 r^6-6 l^2 r^8-2 r^{10}-104 l^8 r R+240 l^6 r^3 R-160 l^4 r^5 R-48 l^2 r^7 R-56 r^9 R-44 l^8 R^2+1024 l^6 r^2 R^2-1384 l^4 r^4 R^2+192 l^2 r^6 R^2-684 r^8 R^2+1240 l^6 r R^3-5104 l^4 r^3 R^3+3480 l^2 r^5 R^3-4768 r^7 R^3+258 l^6 R^4-8638 l^4 r^2 R^4+15726 l^2 r^4 R^4-20818 r^6 R^4-5584 l^4 r R^5+33384 l^2 r^3 R^5-58728 r^5 R^5-687 l^4 R^6+34530 l^2 r^2 R^6-106303 r^4 R^6+14736 l^2 r R^7-118000 r^3 R^7+1056 l^2 R^8-72096 r^2 R^8-18176 r R^9+256 R^{10}\right)\}$$

$$\Big\{X49,\ \text{CENTER OF SINE-TRIPLE-ANGLE CIRCLE},\ X86,$$

$$\text{CEVAPOINT OF INCENTER AND CENTROID},\ -\frac{1}{\left(5 l^2+r^2+4 r R\right)^2 \left(2 l^2-2 r^2-8 r R-7 R^2\right)^2}$$

$$\Big(6 l^{10}-22 l^8 r^2-36 l^6 r^4+20 l^4 r^6+30 l^2 r^8+2 r^{10}-56 l^8 r R-128 l^6 r^3 R+208 l^4 r^5 R+320 l^2 r^7 R+40 r^9 R-32 l^8 R^2-20 l^6 r^2 R^2+836 l^4 r^4 R^2+1412 l^2 r^6 R^2+332 r^8 R^2+112 l^6 r R^3+1504 l^4 r^3 R^3+3376 l^2 r^5 R^3+1472 r^7 R^3+26 l^6 R^4+1046 l^4 r^2 R^4+4622 l^2 r^4 R^4+3730 r^6 R^4+184 l^4 r R^5+3280 l^2 r^3 R^5+5336 r^5 R^5-25 l^4 R^6+902 l^2 r^2 R^6+3935 r^4 R^6-40 l^2 r R^7+1144 r^3 R^7-16 r^2 R^8\Big)\Big\}$$

$$\Big\{X49,\ \text{CENTER OF SINE-TRIPLE-ANGLE CIRCLE},\ X87,\ X(2)\text{-CROSS CONJUGATE OF } X(1),$$

$$\Big(R\Big(4 l^{12} r-28 l^8 r^5-32 l^6 r^7+12 l^4 r^9+32 l^2 r^{11}+12 r^{13}-l^{12} R-126 l^{10} r^2 R+105 l^8 r^4 R+252 l^6 r^6 R-95 l^4 r^8 R+98 l^2 r^{10} R+215 r^{12} R+14 l^{10} r R^2+1206 l^8 r^3 R^2-52 l^6 r^5 R^2-2132 l^4 r^7 R^2+646 l^2 r^9 R^2+1534 r^{11} R^2+4 l^{10} R^3+216 l^8 r^2 R^3-4552 l^6 r^4 R^3-4416 l^4 r^6 R^3+5668 l^2 r^8 R^3+5320 r^{10} R^3-106 l^8 r R^4-3592 l^6 r^3 R^4+4836 l^4 r^5 R^4+15928 l^2 r^7 R^4+7606 r^9 R^4+l^8 R^5+540 l^6 r^2 R^5+14414 l^4 r^4 R^5+8268 l^2 r^6 R^5-5607 r^8 R^5-40 l^6 r R^6+3752 l^4 r^3 R^6-24120 l^2 r^5 R^6-36104 r^7 R^6+464 l^4 r^2 R^7-26848 l^2 r^4 R^7-48816 r^6 R^7-1280 l^2 r^3 R^8-22784 r^5 R^8+1024 r^4 R^9\Big)\Big)\Big/\Big(\left(2 l^2-2 r^2-8 r R-7 R^2\right)^2 \left(l^4+2 l^2 r^2+r^4-20 l^2 r R+12 r^3 R+32 r^2 R^2\right)^2\Big)\Big\}$$

$$\Big\{X49,\ \text{CENTER OF SINE-TRIPLE-ANGLE CIRCLE},\ X88,$$

$$\text{ISOGONAL CONJUGATE OF } X(44),\ \frac{1}{\left(l^2+3 r^2-15 r R\right)^2 \left(2 l^2-2 r^2-8 r R-7 R^2\right)^2}$$

$$R\Big(2 l^8 r-8 l^6 r^3-204 l^4 r^5+264 l^2 r^7-54 r^9-l^8 R-42 l^6 r^2 R+232 l^4 r^4 R+1098 l^2 r^6 R-711 r^8 R+21 l^6 r R^2+73 l^4 r^3 R^2+1971 l^2 r^5 R^2-3681 r^7 R^2+4 l^6 R^3-114 l^4 r^2 R^3+792 l^2 r^4 R^3-9378 r^6 R^3-101 l^4 r R^4+1098 l^2 r^3 R^4-11673 r^5 R^4+l^4 R^5+630 l^2 r^2 R^5-5643 r^4 R^5-30 l^2 r R^6-666 r^3 R^6+225 r^2 R^7\Big)\Big\}$$

$$\Big\{X49,\ \text{CENTER OF SINE-TRIPLE-ANGLE CIRCLE},\ X89,$$

$$\text{ISOGONAL CONJUGATE OF } X(45),\ -\frac{1}{\left(2 l^2-6 r^2+3 r R\right)^2 \left(2 l^2-2 r^2-8 r R-7 R^2\right)^2}$$

$$R\Big(4 l^8 r+56 l^6 r^3+144 l^4 r^5-312 l^2 r^7+108 r^9+4 l^8 R+66 l^6 r^2 R-70 l^4 r^4 R-2178 l^2 r^6 R+1602 r^8 R-54 l^6 r R^2-1234 l^4 r^3 R^2-5922 l^2 r^5 R^2+9594 r^7 R^2-16 l^6 R^3-1038 l^4 r^2 R^3-4212 l^2 r^4 R^3+29466 r^6 R^3+86 l^4 r R^4+2952 l^2 r^3 R^4+48258 r^5 R^4-4 l^4 R^5+3204 l^2 r^2 R^5+39096 r^4 R^5-12 l^2 r R^6+12276 r^3 R^6-9 r^2 R^7\Big)\Big\}$$

$$\Big\{X49,\ \text{CENTER OF SINE-TRIPLE-ANGLE CIRCLE},\ X90,$$

$$X(3)\text{-CROSS CONJUGATE OF } X(1),\ \frac{1}{\left(2 l^2-2 r^2-8 r R-7 R^2\right)^2 \left(r^2+2 r R-R^2\right)^2}$$

$$R\Big(12 l^6 r^3-16 l^4 r^5+4 l^2 r^7-8 l^6 r^2 R-73 l^4 r^4 R+46 l^2 r^6 R-r^8 R+4 l^6 r R^2-62 l^4 r^3 R^2+190 l^2 r^5 R^2-16 r^7 R^2+18 l^4 r^2 R^3+344 l^2 r^4 R^3-102 r^6 R^3-34 l^4 r R^4+274 l^2 r^3 R^4-338 r^5 R^4-l^4 R^5+138 l^2 r^2 R^5-632 r^4 R^5+104 l^2 r R^6-676 r^3 R^6+4 l^2 R^7-402 r^2 R^7-118 r R^8+R^9\Big)\Big\}$$

$$\Big\{X49,\ \text{CENTER OF SINE-TRIPLE-ANGLE CIRCLE},\ X91,\ \text{ISOGONAL CONJUGATE OF } X(47),$$

$$\Big(2 l^{10} r^2+6 l^8 r^4+4 l^6 r^6-4 l^4 r^8-6 l^2 r^{10}-2 r^{12}+2 l^{10} r R-74 l^8 r^3 R+132 l^6 r^5 R-196 l^4 r^7 R+58 l^2 r^9 R-50 r^{11} R-72 l^8 r^2 R^2+680 l^6 r^4 R^2-1448 l^4 r^6 R^2+1112 l^2 r^8 R^2-528 r^{10} R^2-27 l^8 r R^3+1204 l^6 r^3 R^3-4666 l^4 r^5 R^3+6084 l^2 r^7 R^3-3123 r^9 R^3-l^8 R^4+684 l^6 r^2 R^4-7930 l^4 r^4 R^4+17236 l^2 r^6 R^4-11525 r^8 R^4+161 l^6 r R^5-7065 l^4 r^3 R^5+28947 l^2 r^5 R^5-27923 r^7 R^5+8 l^6 R^6-2853 l^4 r^2 R^6+29678 l^2 r^4 R^6-45429 r^6 R^6-488 l^4 r R^7+17760 l^2 r^3 R^7-49704 r^5 R^7-19 l^4 R^8+5406 l^2 r^2 R^8-35711 r^4 R^8+684 l^2 r R^9-15780 r^3 R^9+12 l^2 R^{10}-3704 r^2 R^{10}-336 r R^{11}+4 R^{12}\Big)\Big/\Big(\left(2 l^2-2 r^2-8 r R-7 R^2\right)^2 \left(l^2 r+r^3-l^2 R+3 r^2 R+2 r R^2+2 R^3\right)^2\Big)\Big\}$$

$$\Big\{\text{X49, CENTER OF SINE-TRIPLE-ANGLE CIRCLE, X92, CEVAPOINT OF INCENTER AND CLAWSON POINT, } \frac{1}{\left(2 l^2-2 r^2-8 r R-7 R^2\right)^2 \left(l^2+r^2-4 R^2\right)^2}$$
$$\left(2 l^{10}+6 l^8 r^2+4 l^6 r^4-4 l^4 r^6-6 l^2 r^8-2 r^{10}-80 l^8 r R+128 l^6 r^3 R-192 l^4 r^5 R+64 l^2 r^7 R-48 r^9 R-28 l^8 R^2+720 l^6 r^2 R^2-1464 l^4 r^4 R^2+1136 l^2 r^6 R^2-492 r^8 R^2+988 l^6 r R^3-4708 l^4 r^3 R^3+6052 l^2 r^5 R^3-2844 r^7 R^3+146 l^6 R^4-7158 l^4 r^2 R^4+16590 l^2 r^4 R^4-10282 r^6 R^4-4428 l^4 r R^5+25856 l^2 r^3 R^5-24276 r^5 R^5-335 l^4 R^6+22170 l^2 r^2 R^6-37703 r^4 R^6+8432 l^2 r R^7-37424 r^3 R^7+280 l^2 R^8-21704 r^2 R^8-5632 r R^9+16 R^{10}\right)\Big\}$$

$$\Big\{\text{X49, CENTER OF SINE-TRIPLE-ANGLE CIRCLE, X93, ISOGONAL CONJUGATE OF X(49),}$$
$$\left(2 l^{14}+10 l^{12} r^2+18 l^{10} r^4+10 l^8 r^6-10 l^6 r^8-18 l^4 r^{10}-10 l^2 r^{12}-2 r^{14}-56 l^{12} r R-144 l^{10} r^3 R-72 l^8 r^5 R+32 l^6 r^7 R-72 l^4 r^9 R-144 l^2 r^{11} R-56 r^{13} R-24 l^{12} R^2+144 l^{10} r^2 R^2+1400 l^8 r^4 R^2-1440 l^6 r^6 R^2+1112 l^4 r^8 R^2-1008 l^2 r^{10} R^2-696 r^{12} R^2+576 l^{10} r R^3+3392 l^8 r^3 R^3-12672 l^6 r^5 R^3+12928 l^4 r^7 R^3-5312 l^2 r^9 R^3-5056 r^{11} R^3+72 l^{10} R^4+600 l^8 r^2 R^4-36720 l^6 r^4 R^4+62064 l^4 r^6 R^4-24792 l^2 r^8 R^4-23752 r^{10} R^4-1440 l^8 r R^5-44160 l^6 r^3 R^5+164416 l^4 r^5 R^5-93312 l^2 r^7 R^5-75168 r^9 R^5+181 l^8 R^6-20284 l^6 r^2 R^6+250398 l^4 r^4 R^6-250172 l^2 r^6 R^6-160843 r^8 R^6-2896 l^6 r R^7+211248 l^4 r^3 R^7-447792 l^2 r^5 R^7-223408 r^7 R^7-1446 l^6 R^8+89466 l^4 r^2 R^8-511962 l^2 r^4 R^8-171642 r^6 R^8+17352 l^4 r R^9-352048 l^2 r^3 R^9-10040 r^5 R^9+2898 l^4 R^{10}-131580 l^2 r^2 R^{10}+118642 r^4 R^{10}-23184 l^2 r R^{11}+115728 r^3 R^{11}-2268 l^2 R^{12}+48636 r^2 R^{12}+9072 r R^{13}+729 R^{14}\right) \Big/$$
$$\left(\left(2 l^2-2 r^2-8 r R-7 R^2\right)^2 \left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-8 l^2 R^2+24 r^2 R^2+32 r R^3+13 R^4\right)^2\right)\Big\}$$

$$\Big\{\text{X49, CENTER OF SINE-TRIPLE-ANGLE CIRCLE, X94, ISOGONAL CONJUGATE OF X(50),}$$
$$\left(2 l^{14}+10 l^{12} r^2+18 l^{10} r^4+10 l^8 r^6-10 l^6 r^8-18 l^4 r^{10}-10 l^2 r^{12}-2 r^{14}-56 l^{12} r R-144 l^{10} r^3 R-72 l^8 r^5 R+32 l^6 r^7 R-72 l^4 r^9 R-144 l^2 r^{11} R-56 r^{13} R-24 l^{12} R^2+144 l^{10} r^2 R^2+1400 l^8 r^4 R^2-1440 l^6 r^6 R^2+1112 l^4 r^8 R^2-1008 l^2 r^{10} R^2-696 r^{12} R^2+576 l^{10} r R^3+3392 l^8 r^3 R^3-12672 l^6 r^5 R^3+12928 l^4 r^7 R^3-5312 l^2 r^9 R^3-5056 r^{11} R^3+72 l^{10} R^4+600 l^8 r^2 R^4-36720 l^6 r^4 R^4+62064 l^4 r^6 R^4-24792 l^2 r^8 R^4-23752 r^{10} R^4-1440 l^8 r R^5-44160 l^6 r^3 R^5+164416 l^4 r^5 R^5-93312 l^2 r^7 R^5-75168 r^9 R^5+181 l^8 R^6-20284 l^6 r^2 R^6+250398 l^4 r^4 R^6-250172 l^2 r^6 R^6-160843 r^8 R^6-2896 l^6 r R^7+211248 l^4 r^3 R^7-447792 l^2 r^5 R^7-223408 r^7 R^7-1446 l^6 R^8+89466 l^4 r^2 R^8-511962 l^2 r^4 R^8-171642 r^6 R^8+17352 l^4 r R^9-352048 l^2 r^3 R^9-10040 r^5 R^9+2898 l^4 R^{10}-131580 l^2 r^2 R^{10}+118642 r^4 R^{10}-23184 l^2 r R^{11}+115728 r^3 R^{11}-2268 l^2 R^{12}+48636 r^2 R^{12}+9072 r R^{13}+729 R^{14}\right) \Big/$$
$$\left(\left(2 l^2-2 r^2-8 r R-7 R^2\right)^2 \left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-12 l^2 R^2+28 r^2 R^2+48 r R^3+27 R^4\right)^2\right)\Big\}$$

$$\Big\{\text{X49, CENTER OF SINE-TRIPLE-ANGLE CIRCLE, X95, CEVAPOINT OF CENTROID AND CIRCUMCENTER,}$$
$$\left(2 l^{14}+42 l^{12} r^2+114 l^{10} r^4+74 l^8 r^6-74 l^6 r^8-114 l^4 r^{10}-42 l^2 r^{12}-2 r^{14}-56 l^{12} r R-784 l^{10} r^3 R-584 l^8 r^5 R+288 l^6 r^7 R-584 l^4 r^9 R-784 l^2 r^{11} R-56 r^{13} R-28 l^{12} R^2-136 l^{10} r^2 R^2+4668 l^8 r^4 R^2-3568 l^6 r^6 R^2+2332 l^4 r^8 R^2-6408 l^2 r^{10} R^2-700 r^{12} R^2+672 l^{10} r R^3+7776 l^8 r^3 R^3-22720 l^6 r^5 R^3+27072 l^4 r^7 R^3-30176 l^2 r^9 R^3-5152 r^{11} R^3+146 l^{10} R^4-298 l^8 r^2 R^4-50812 l^6 r^4 R^4+96252 l^4 r^6 R^4-91158 l^2 r^8 R^4-24786 r^{10} R^4-2920 l^8 r R^5-38304 l^6 r^3 R^5+181136 l^4 r^5 R^5-187808 l^2 r^7 R^5-81768 r^9 R^5-335 l^8 R^6-2140 l^6 r^2 R^6+194470 l^4 r^4 R^6-276188 l^2 r^6 R^6-188559 r^8 R^6+5360 l^6 r R^7+105200 l^4 r^3 R^7-297456 l^2 r^5 R^7-303600 r^7 R^7+280 l^6 R^8+17464 l^4 r^2 R^8-227864 l^2 r^4 R^8-334008 r^6 R^8-3360 l^4 r R^9-109376 l^2 r^3 R^9-238624 r^5 R^9+16 l^4 R^{10}-24224 l^2 r^2 R^{10}-99184 r^4 R^{10}-128 l^2 r R^{11}-17792 r^3 R^{11}+256 r^2 R^{12}\right) \Big/$$
$$\left(\left(2 l^2-2 r^2-8 r R-7 R^2\right)^2 \left(l^4+18 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-4 l^2 R^2+20 r^2 R^2+16 r R^3\right)^2\right)\Big\}$$

{X49, CENTER OF SINE-TRIPLE-ANGLE CIRCLE, X96, ISOGONAL CONJUGATE OF X(52),

$$-\left(\left(2 l^{14}-22 l^{12} r^2-78 l^{10} r^4-54 l^8 r^6+54 l^6 r^8+78 l^4 r^{10}+22 l^2 r^{12}-2 r^{14}-56 l^{12} r R+496 l^{10} r^3 R+440 l^8 r^5 R-224 l^6 r^7 R+440 l^4 r^9 R+496 l^2 r^{11} R-56 r^{13} R-50 l^{12} R^2+1204 l^{10} r^2 R^2-4110 l^8 r^4 R^2+2776 l^6 r^6 R^2-2350 l^4 r^8 R^2+5172 l^2 r^{10} R^2-722 r^{12} R^2+1200 l^{10} r R^3-14192 l^8 r^3 R^3+28512 l^6 r^5 R^3-32352 l^4 r^7 R^3+32752 l^2 r^9 R^3-5680 r^{11} R^3+494 l^{10} R^4-16822 l^8 r^2 R^4+91068 l^6 r^4 R^4-148092 l^4 r^6 R^4+139094 l^2 r^8 R^4-30414 r^{10} R^4-9880 l^8 r R^5+131744 l^6 r^3 R^5-373648 l^4 r^5 R^5+413344 l^2 r^7 R^5-116888 r^9 R^5-2509 l^8 R^6+99404 l^6 r^2 R^6-567182 l^4 r^4 R^6+871116 l^2 r^6 R^6-330893 r^8 R^6+40144 l^6 r R^7-519216 l^4 r^3 R^7+1293104 l^2 r^5 R^7-696272 r^7 R^7+7128 l^6 R^8-281928 l^4 r^2 R^8+1320360 l^2 r^4 R^8-1085112 r^6 R^8-85536 l^4 r R^9+892096 l^2 r^3 R^9-1233696 r^5 R^9-11496 l^4 R^{10}+378544 l^2 r^2 R^{10}-995944 r^4 R^{10}+91968 l^2 r R^{11}-548160 r^3 R^{11}+9920 l^2 R^{12}-193856 r^2 R^{12}-39680 r R^{13}-3600 R^{14}\right)\Big/\left(\left(2 l^2-2 r^2-8 r R-7 R^2\right)^2\left(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2-4 R^4\right)^2\right)\right)\}$$

{X49, CENTER OF SINE-TRIPLE-ANGLE CIRCLE, X97, ISOGONAL CONJUGATE OF X(53),

$$\left(R^2\left(l^{12}-2 l^{10} r^2-17 l^8 r^4-28 l^6 r^6-17 l^4 r^8-2 l^2 r^{10}+r^{12}-24 l^{10} r R+56 l^8 r^3 R+80 l^6 r^5 R-80 l^4 r^7 R-56 l^2 r^9 R+24 r^{11} R-17 l^{10} R^2+333 l^8 r^2 R^2-594 l^6 r^4 R^2+434 l^4 r^6 R^2-669 l^2 r^8 R^2+257 r^{10} R^2+340 l^8 r R^3-2736 l^6 r^3 R^3+4344 l^4 r^5 R^3-4272 l^2 r^7 R^3+1620 r^9 R^3+114 l^8 R^4-3568 l^6 r^2 R^4+13468 l^4 r^4 R^4-16048 l^2 r^6 R^4+6674 r^8 R^4-1824 l^6 r R^5+19488 l^4 r^3 R^5-37024 l^2 r^5 R^5+18848 r^7 R^5-378 l^6 R^6+13822 l^4 r^2 R^6-52798 l^2 r^4 R^6+37178 r^6 R^6+4536 l^4 r R^7-45232 l^2 r^3 R^7+51128 r^5 R^7+633 l^4 R^8-21650 l^2 r^2 R^8+47961 r^4 R^8-5064 l^2 r R^9+29256 r^3 R^9-488 l^2 R^{10}+10616 r^2 R^{10}+1952 r R^{11}+144 R^{12}\right)\right)\Big/\left(\left(2 l^2-2 r^2-8 r R-7 R^2\right)^2\left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-7 l^2 R^2+23 r^2 R^2+28 r R^3+12 R^4\right)^2\right)\}$$

{X49, CENTER OF SINE-TRIPLE-ANGLE CIRCLE, X98, TarryPoint,

$$-\left(\left(2 l^{10}+6 l^8 r^2+4 l^6 r^4-4 l^4 r^6-6 l^2 r^8-2 r^{10}-40 l^8 r R-32 l^6 r^3 R+16 l^4 r^5 R-32 l^2 r^7 R-40 r^9 R-26 l^8 R^2+280 l^6 r^2 R^2-220 l^4 r^4 R^2+152 l^2 r^6 R^2-346 r^8 R^2+416 l^6 r R^3-1376 l^4 r^3 R^3+1632 l^2 r^5 R^3-1696 r^7 R^3+114 l^6 R^4-2510 l^4 r^2 R^4+5262 l^2 r^4 R^4-5170 r^6 R^4-1368 l^4 r R^5+8080 l^2 r^3 R^5-10072 r^5 R^5-169 l^4 R^6+5822 l^2 r^2 R^6-12297 r^4 R^6+1352 l^2 r R^7-8648 r^3 R^7-2704 r^2 R^8\right)\Big/\left(\left(2 l^2-2 r^2-8 r R-7 R^2\right)^2\left(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)\right)\right)\}$$

{X49, CENTER OF SINE-TRIPLE-ANGLE CIRCLE, X99, STEINER POINT,

$$\left(2 l^{10}+6 l^8 r^2+4 l^6 r^4-4 l^4 r^6-6 l^2 r^8-2 r^{10}-40 l^8 r R-32 l^6 r^3 R+16 l^4 r^5 R-32 l^2 r^7 R-40 r^9 R-12 l^8 R^2+48 l^6 r^2 R^2+312 l^4 r^4 R^2-80 l^2 r^6 R^2-332 r^8 R^2+192 l^6 r R^3+704 l^4 r^3 R^3-448 l^2 r^5 R^3-1472 r^7 R^3+18 l^6 R^4+274 l^4 r^2 R^4-1682 l^2 r^4 R^4-3730 r^6 R^4-216 l^4 r R^5-2416 l^2 r^3 R^5-5336 r^5 R^5+l^4 R^6-1166 l^2 r^2 R^6-3935 r^4 R^6-8 l^2 r R^7-1144 r^3 R^7+16 r^2 R^8\right)\Big/\left(\left(2 l^2-2 r^2-8 r R-7 R^2\right)^2\left(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)\right)\}$$

{X49, CENTER OF SINE-TRIPLE-ANGLE CIRCLE, X100, ANTICOMPLEMENT OF FEUERBACH POINT,

$$\left(R\left(-2 l^6-2 l^4 r^2+2 l^2 r^4+2 r^6+46 l^4 r R-52 l^2 r^3 R+30 r^5 R+12 l^4 R^2-216 l^2 r^2 R^2+172 r^4 R^2-236 l^2 r R^3+468 r^3 R^3-18 l^2 R^4+602 r^2 R^4+298 r R^5-R^6\right)\right)\Big/\left((2 r-R)\left(-2 l^2+2 r^2+8 r R+7 R^2\right)^2\right)\}$$

{X50, X(74)-CEVA CONJUGATE OF X(184), X51, CENTROID OF ORTHIC TRIANGLE,

$$-\left(\left(l^{12}+6 l^{10} r^2-177 l^8 r^4+660 l^6 r^6-177 l^4 r^8+6 l^2 r^{10}+r^{12}-24 l^{10} r R-72 l^8 r^3 R+1488 l^6 r^5 R-1488 l^4 r^7 R+72 l^2 r^9 R+24 r^{11} R-10 l^{10} R^2+34 l^8 r^2 R^2+2044 l^6 r^4 R^2-5020 l^4 r^6 R^2+398 l^2 r^8 R^2+250 r^{10} R^2+200 l^8 r R^3+992 l^6 r^3 R^3-8912 l^4 r^5 R^3+1504 l^2 r^7 R^3+1480 r^9 R^3+33 l^8 R^4-64 l^6 r^2 R^4-9666 l^4 r^4 R^4+4416 l^2 r^6 R^4+5473 r^8 R^4-528 l^6 r R^5-5360 l^4 r^3 R^5+9200 l^2 r^5 R^5+13072 r^7 R^5-36 l^6 R^6-1044 l^4 r^2 R^6+11764 l^2 r^4 R^6+20100 r^6 R^6+432 l^4 r R^7+7968 l^2 r^3 R^7+19120 r^5 R^7+2160 l^2 r^2 R^8+10176 r^4 R^8+2304 r^3 R^9\right)\Big/\left(36 R^2\left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-3 l^2 R^2+19 r^2 R^2+12 r R^3\right)^2\right)\right)\}$$

{X50, X(74)-CEVA CONJUGATE OF X(184), X52,
ORTHOCENTER OF ORTHIC TRIANGLE,

$$\left(\left(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)\left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-5 l^2 R^2+21 r^2 R^2+20 r R^3+6 R^4\right)^2\right)\Big/\left(4 R^2\left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-3 l^2 R^2+19 r^2 R^2+12 r R^3\right)^2\right)\}$$

$$\{X50,\ X(74)\text{-CEVA CONJUGATE OF }X(184),\ X53,\ \text{SYMMEDIAN POINT OF ORTHIC TRIANGLE},$$
$$-\Big(\big(16 l^4 r^4 \big(2 l^{10} - 26 l^8 r^2 + 100 l^6 r^4 - 100 l^4 r^6 + 26 l^2 r^8 - 2 r^{10} - 40 l^8 r R + 352 l^6 r^3 R - 752 l^4 r^5 R + 352 l^2 r^7 R - 40 r^9 R - 22 l^8 R^2 + 528 l^6 r^2 R^2 - 2228 l^4 r^4 R^2 + 1936 l^2 r^6 R^2 - 342 r^8 R^2 + 352 l^6 r R^3 - 3296 l^4 r^3 R^3 + 5600 l^2 r^5 R^3 - 1632 r^7 R^3 + 81 l^6 R^4 - 2583 l^4 r^2 R^4 + 9175 l^2 r^4 R^4 - 4753 r^6 R^4 - 972 l^4 r R^5 + 8488 l^2 r^3 R^5 - 8652 r^5 R^5 - 100 l^4 R^6 + 4100 l^2 r^2 R^6 - 9620 r^4 R^6 + 800 l^2 r R^7 - 5984 r^3 R^7 - 1600 r^2 R^8\big)\big) \Big/ \big(\big(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 3 l^2 R^2 + 19 r^2 R^2 + 12 r R^3\big)^2 \big(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 4 l^2 R^2 + 20 r^2 R^2 + 16 r R^3\big)^2\big)\Big)\}$$

$$\{X50,\ X(74)\text{-CEVA CONJUGATE OF }X(184),\ X54,\ \text{KosnitaPoint},$$
$$-\Big(\big(R^2 \big(8 l^{10} r^2 + 32 l^8 r^4 + 48 l^6 r^6 + 32 l^4 r^8 + 8 l^2 r^{10} - 128 l^8 r^3 R - 128 l^6 r^5 R + 128 l^4 r^7 R + 128 l^2 r^9 R + l^{10} R^2 - 173 l^8 r^2 R^2 + 722 l^6 r^4 R^2 - 466 l^4 r^6 R^2 + 941 l^2 r^8 R^2 - r^{10} R^2 - 20 l^8 r R^3 + 2096 l^6 r^3 R^3 - 3960 l^4 r^5 R^3 + 4144 l^2 r^7 R^3 - 20 r^9 R^3 - 10 l^8 R^4 + 1304 l^6 r^2 R^4 - 9756 l^4 r^4 R^4 + 11736 l^2 r^6 R^4 - 170 r^8 R^4 + 160 l^6 r R^5 - 9952 l^4 r^3 R^5 + 21344 l^2 r^5 R^5 - 800 r^7 R^5 + 33 l^6 R^6 - 3975 l^4 r^2 R^6 + 23879 l^2 r^4 R^6 - 2273 r^6 R^6 - 396 l^4 r R^7 + 15016 l^2 r^3 R^7 - 3980 r^5 R^7 - 36 l^4 R^8 + 4356 l^2 r^2 R^8 - 4180 r^4 R^8 + 288 l^2 r R^9 - 2400 r^3 R^9 - 576 r^2 R^{10}\big)\big) \Big/ \big(\big(2 l^2 - 2 r^2 - 8 r R - 5 R^2\big)^2 \big(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 3 l^2 R^2 + 19 r^2 R^2 + 12 r R^3\big)^2\big)\Big)\}$$

$$\{X50,\ X(74)\text{-CEVA CONJUGATE OF }X(184),\ X55,\ \text{INSIMILICENTER(CIRCUMCIRCLE, INCIRCLE)},$$
$$-\Big(\big(r^2 R^2 \big(-3 l^8 + 28 l^6 r^2 - 30 l^4 r^4 + 4 l^2 r^6 + r^8 + 36 l^6 r R - 100 l^4 r^3 R + 12 l^2 r^5 R + 20 r^7 R + 14 l^6 R^2 - 166 l^4 r^2 R^2 - 78 l^2 r^4 R^2 + 166 r^6 R^2 - 96 l^4 r R^3 - 368 l^2 r^3 R^3 + 736 r^5 R^3 - 3 l^4 R^4 - 474 l^2 r^2 R^4 + 1865 r^4 R^4 - 228 l^2 r R^5 + 2668 r^3 R^5 - 36 l^2 R^6 + 1968 r^2 R^6 + 576 r R^7\big)\big) \Big/ \big((r + R)^2 \big(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 3 l^2 R^2 + 19 r^2 R^2 + 12 r R^3\big)^2\big)\Big)\}$$

$$\{X50,\ X(74)\text{-CEVA CONJUGATE OF }X(184),\ X56,\ \text{EXSIMILICENTER(CIRCUMCIRCLE, INCIRCLE)},$$
$$\Big(r^2 R^2 \big(-l^8 - 4 l^6 r^2 + 30 l^4 r^4 - 28 l^2 r^6 + 3 r^8 + 28 l^6 r R + 36 l^4 r^3 R - 204 l^2 r^5 R + 44 r^7 R + 10 l^6 R^2 - 162 l^4 r^2 R^2 - 378 l^2 r^4 R^2 + 242 r^6 R^2 - 240 l^4 r R^3 + 224 l^2 r^3 R^3 + 576 r^5 R^3 - 33 l^4 R^4 + 1050 l^2 r^2 R^4 + 347 r^4 R^4 + 660 l^2 r R^5 - 844 r^3 R^5 + 36 l^2 R^6 - 1392 r^2 R^6 - 576 r R^7\big)\Big) \Big/ \big((r - R)^2 \big(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 3 l^2 R^2 + 19 r^2 R^2 + 12 r R^3\big)^2\big)\}$$

$$\{X50,\ X(74)\text{-CEVA CONJUGATE OF }X(184),\ X57,\ \text{ISOGONAL CONJUGATE OF }X(9),$$
$$-\Big(\big(4 r^2 R \big(l^8 r - 9 l^6 r^3 + 19 l^4 r^5 - 3 l^2 r^7 + l^8 R - 25 l^6 r^2 R + 108 l^4 r^4 R - 41 l^2 r^6 R + r^8 R - 38 l^6 r R^2 + 266 l^4 r^3 R^2 - 252 l^2 r^5 R^2 + 20 r^7 R^2 - 10 l^6 R^3 + 396 l^4 r^2 R^3 - 864 l^2 r^4 R^3 + 166 r^6 R^3 + 273 l^4 r R^4 - 1673 l^2 r^3 R^4 + 736 r^5 R^4 + 33 l^4 R^5 - 1683 l^2 r^2 R^5 + 1865 r^4 R^5 - 696 l^2 r R^6 + 2668 r^3 R^6 - 36 l^2 R^7 + 1968 r^2 R^7 + 576 r R^8\big)\big) \Big/ \big((r - 2 R)^2 \big(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 3 l^2 R^2 + 19 r^2 R^2 + 12 r R^3\big)^2\big)\Big)\}$$

$$\{X50,\ X(74)\text{-CEVA CONJUGATE OF }X(184),\ X58,\ \text{ISOGONAL CONJUGATE OF }X(10),$$
$$\frac{4 r^4 R^2 \big(l^2 + r^2 + 4 r R + 3 R^2\big)^2 \big(l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\big)}{\big(l^2 - 3 r^2 - 4 r R\big)^2 \big(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 3 l^2 R^2 + 19 r^2 R^2 + 12 r R^3\big)^2}\}$$

$$\{X50,\ X(74)\text{-CEVA CONJUGATE OF }X(184),\ X59,\ \text{ISOGONAL CONJUGATE OF }X(11),$$
$$\Big(r^2 R^2 \big(-4 l^{10} r - 16 l^8 r^3 - 24 l^6 r^5 - 16 l^4 r^7 - 4 l^2 r^9 - 5 l^{10} R + 117 l^8 r^2 R + 158 l^6 r^4 R - 54 l^4 r^6 R - 89 l^2 r^8 R + r^{10} R + 224 l^8 r R^2 - 1204 l^6 r^3 R^2 + 852 l^4 r^5 R^2 - 892 l^2 r^7 R^2 + 28 r^9 R^2 + 62 l^8 R^3 - 3096 l^6 r^2 R^3 + 6572 l^4 r^4 R^3 - 5224 l^2 r^6 R^3 + 342 r^8 R^3 - 2056 l^6 r R^4 + 17568 l^4 r^3 R^4 - 19208 l^2 r^5 R^4 + 2384 r^7 R^4 - 301 l^6 R^5 + 18999 l^4 r^2 R^5 - 44275 l^2 r^4 R^5 + 10409 r^6 R^5 + 7812 l^4 r R^6 - 60768 l^2 r^3 R^6 + 29364 r^5 R^6 + 672 l^4 R^7 - 44436 l^2 r^2 R^7 + 53152 r^4 R^7 - 13728 l^2 r R^8 + 59008 r^3 R^8 - 576 l^2 R^9 + 36096 r^2 R^9 + 9216 r R^{10}\big)\Big) \Big/ \big((2 r - R) \big(-l^2 + r^2 + 5 r R + 4 R^2\big)^2 \big(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 3 l^2 R^2 + 19 r^2 R^2 + 12 r R^3\big)^2\big)\}$$

$$\{X50,\ X(74)\text{-CEVA CONJUGATE OF } X(184),\ X60,\ \text{ISOGONAL CONJUGATE OF } X(12),$$
$$-\Big(\Big(r^2 R^2 \big(8 l^{10} r^2 + 32 l^8 r^4 + 48 l^6 r^6 + 32 l^4 r^8 + 8 l^2 r^{10} - 6 l^{10} r R - 6 l^8 r^3 R + 84 l^6 r^5 R + 164 l^4 r^7 R +$$
$$82 l^2 r^9 R + 2 r^{11} R - l^{10} R^2 - 63 l^8 r^2 R^2 + 46 l^6 r^4 R^2 + 186 l^4 r^6 R^2 + 371 l^2 r^8 R^2 + 37 r^{10} R^2 +$$
$$44 l^8 r R^3 + 260 l^6 r^3 R^3 - 284 l^4 r^5 R^3 + 1068 l^2 r^7 R^3 + 288 r^9 R^3 + 6 l^8 R^4 + 248 l^6 r^2 R^4 -$$
$$1108 l^4 r^4 R^4 + 2248 l^2 r^6 R^4 + 1230 r^8 R^4 - 114 l^6 r R^5 - 1442 l^4 r^3 R^5 + 3362 l^2 r^5 R^5 +$$
$$3154 r^7 R^5 - 9 l^6 R^6 - 621 l^4 r^2 R^6 + 3337 l^2 r^4 R^6 + 4989 r^6 R^6 + 108 l^4 r R^7 + 1992 l^2 r^3 R^7 +$$
$$4780 r^5 R^7 + 540 l^2 r^2 R^8 + 2544 r^4 R^8 + 576 r^3 R^9\big)\Big) \Big/ \Big(\big(2 l^2 r - 2 r^3 + l^2 R - 7 r^2 R - 7 r R^2\big)^2$$
$$\big(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 3 l^2 R^2 + 19 r^2 R^2 + 12 r R^3\big)^2\Big)\Big)\}$$

$$\{X50,\ X(74)\text{-CEVA CONJUGATE OF } X(184),\ X61,\ \text{ISOGONAL CONJUGATE OF } X(17),$$
$$\frac{12 l^2 r^2 R^2 \left(l^2 - 2\sqrt{3}\, l r - r^2 - 4 r R\right) \left(l^2 + 2\sqrt{3}\, l r - r^2 - 4 r R\right) \left(l^2 + 2\sqrt{3}\, l r - r^2 - 4 r R - 3 R^2\right)^2}{\left(3 l^2 + 2\sqrt{3}\, l r - 3 r^2 - 12 r R\right)^2 \left(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 3 l^2 R^2 + 19 r^2 R^2 + 12 r R^3\right)^2}\}$$

$$\{X50,\ X(74)\text{-CEVA CONJUGATE OF } X(184),\ X62,\ \text{ISOGONAL CONJUGATE OF } X(18),$$
$$\frac{12 l^2 r^2 R^2 \left(l^2 - 2\sqrt{3}\, l r - r^2 - 4 r R\right) \left(l^2 + 2\sqrt{3}\, l r - r^2 - 4 r R\right) \left(l^2 - 2\sqrt{3}\, l r - r^2 - 4 r R - 3 R^2\right)^2}{\left(3 l^2 - 2\sqrt{3}\, l r - 3 r^2 - 12 r R\right)^2 \left(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 3 l^2 R^2 + 19 r^2 R^2 + 12 r R^3\right)^2}\}$$

$$\{X50,\ X(74)\text{-CEVA CONJUGATE OF } X(184),\ X63,\ \text{ISOGONAL CONJUGATE OF } X(19),$$
$$-\Big(\Big(R \big(-2 l^{10} r + 20 l^8 r^3 - 56 l^6 r^5 + 44 l^4 r^7 - 6 l^2 r^9 - l^{10} R + 49 l^8 r^2 R - 282 l^6 r^4 R +$$
$$406 l^4 r^6 R - 93 l^2 r^8 R + r^{10} R + 40 l^8 r R^2 - 552 l^6 r^3 R^2 + 1460 l^4 r^5 R^2 - 616 l^2 r^7 R^2 +$$
$$20 r^9 R^2 + 6 l^8 R^3 - 472 l^6 r^2 R^3 + 2596 l^4 r^4 R^3 - 2184 l^2 r^6 R^3 + 166 r^8 R^3 - 162 l^6 r R^4 +$$
$$2452 l^4 r^3 R^4 - 4338 l^2 r^5 R^4 + 736 r^7 R^4 - 9 l^6 R^5 + 1131 l^4 r^2 R^5 - 4735 l^2 r^4 R^5 +$$
$$1865 r^6 R^5 + 180 l^4 r R^6 - 2664 l^2 r^3 R^6 + 2668 r^5 R^6 - 612 l^2 r^2 R^7 + 1968 r^4 R^7 + 576 r^3 R^8\big)\Big) \Big/$$
$$\Big((r + R)^2 \big(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 3 l^2 R^2 + 19 r^2 R^2 + 12 r R^3\big)^2\Big)\Big)\}$$

$$\{X50,\ X(74)\text{-CEVA CONJUGATE OF } X(184),\ X64,\ \text{ISOGONAL CONJUGATE OF } X(20),$$
$$\Big(4 R^2 \big(3 l^{12} - 38 l^{10} r^2 + 145 l^8 r^4 - 204 l^6 r^6 + 145 l^4 r^8 - 38 l^2 r^{10} + 3 r^{12} - 72 l^{10} r R + 680 l^8 r^3 R -$$
$$1840 l^6 r^5 R + 1840 l^4 r^7 R - 680 l^2 r^9 R + 72 r^{11} R - 46 l^{10} R^2 + 1214 l^8 r^2 R^2 - 6308 l^6 r^4 R^2 +$$
$$9988 l^4 r^6 R^2 - 5294 l^2 r^8 R^2 + 766 r^{10} R^2 + 920 l^8 r R^3 - 10\,688 l^6 r^3 R^3 + 29\,520 l^4 r^5 R^3 -$$
$$23\,488 l^2 r^7 R^3 + 4760 r^9 R^3 + 259 l^8 R^4 - 9536 l^6 r^2 R^4 + 50\,778 l^4 r^4 R^4 - 65\,088 l^2 r^6 R^4 +$$
$$19\,139 r^8 R^4 - 4144 l^6 r R^5 + 50\,992 l^4 r^3 R^5 - 115\,760 l^2 r^5 R^5 + 52\,016 r^7 R^5 - 636 l^6 R^6 +$$
$$28\,500 l^4 r^2 R^6 - 130\,484 l^2 r^4 R^6 + 96\,668 r^6 R^6 + 7632 l^4 r R^7 - 88\,480 l^2 r^3 R^7 + 121\,040 r^5 R^7 +$$
$$576 l^4 R^8 - 32\,112 l^2 r^2 R^8 + 97\,408 r^4 R^8 - 4608 l^2 r R^9 + 45\,312 r^3 R^9 + 9216 r^2 R^{10}\big)\Big) \Big/$$
$$\Big((1 - r - 2 R)^2 (1 + r + 2 R)^2 \big(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 3 l^2 R^2 + 19 r^2 R^2 + 12 r R^3\big)^2\Big)\}$$

$$\{X50,\ X(74)\text{-CEVA CONJUGATE OF } X(184),\ X65,\ \text{ORTHOCENTER OF THE INTOUCH TRIANGLE},$$
$$-\Big(\Big(r^2 \big(2 l^8 r - 24 l^6 r^3 + 76 l^4 r^5 - 24 l^2 r^7 + 2 r^9 + l^8 R - 56 l^6 r^2 R + 338 l^4 r^4 R - 272 l^2 r^6 R +$$
$$37 r^8 R - 48 l^6 r R^2 + 640 l^4 r^3 R^2 - 1200 l^2 r^5 R^2 + 288 r^7 R^2 - 10 l^6 R^3 + 642 l^4 r^2 R^3 -$$
$$2694 l^2 r^4 R^3 + 1230 r^6 R^3 + 306 l^4 r R^4 - 3380 l^2 r^3 R^4 + 3154 r^5 R^4 + 33 l^4 R^5 -$$
$$2334 l^2 r^2 R^5 + 4989 r^4 R^5 - 732 l^2 r R^6 + 4780 r^3 R^6 - 36 l^2 R^7 + 2544 r^2 R^7 + 576 r R^8\big)\Big) \Big/$$
$$\Big(R \big(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 3 l^2 R^2 + 19 r^2 R^2 + 12 r R^3\big)^2\Big)\Big)\}$$

{X50, X(74)-CEVA CONJUGATE OF X(184), X66, ISOGONAL CONJUGATE OF X(22),

$$\left(12 l^{16} r^2 - 148 l^{14} r^4 + 636 l^{12} r^6 - 1252 l^{10} r^8 + 1252 l^8 r^{10} - 636 l^6 r^{12} + 148 l^4 r^{14} - 12 l^2 r^{16} - 336 l^{14} r^3 R + 3296 l^{12} r^5 R - 10928 l^{10} r^7 R + 15936 l^8 r^9 R - 10928 l^6 r^{11} R + 3296 l^4 r^{13} R - 336 l^2 r^{15} R - l^{16} R^2 - 164 l^{14} r^2 R^2 + 5724 l^{12} r^4 R^2 - 36124 l^{10} r^6 R^2 + 82506 l^8 r^8 R^2 - 79836 l^6 r^{10} R^2 + 32092 l^4 r^{12} R^2 - 4196 l^2 r^{14} R^2 - r^{16} R^2 + 32 l^{14} r R^3 + 3904 l^{12} r^3 R^3 - 57856 l^{10} r^5 R^3 + 225248 l^8 r^7 R^3 - 324064 l^6 r^9 R^3 + 179456 l^4 r^{11} R^3 - 30784 l^2 r^{13} R^3 - 32 r^{15} R^3 + 10 l^{14} R^4 + 522 l^{12} r^2 R^4 - 46366 l^{10} r^4 R^4 + 351394 l^8 r^6 R^4 - 801890 l^6 r^8 R^4 + 636702 l^4 r^{10} R^4 - 147082 l^2 r^{12} R^4 - 458 r^{14} R^4 - 280 l^{12} r R^5 - 15536 l^{10} r^3 R^5 + 314648 l^8 r^5 R^5 - 1248928 l^6 r^7 R^5 + 1494808 l^4 r^9 R^5 - 479408 l^2 r^{11} R^5 - 3864 r^{13} R^5 - 33 l^{12} R^6 + 222 l^{10} r^2 R^6 + 149585 l^8 r^4 R^6 - 1218268 l^6 r^6 R^6 + 2350769 l^4 r^8 R^6 - 1085602 l^2 r^{10} R^6 - 21313 r^{12} R^6 + 792 l^{10} r R^7 + 27016 l^8 r^3 R^7 - 711312 l^6 r^5 R^7 + 2452368 l^4 r^7 R^7 - 1706760 l^2 r^9 R^7 - 80536 r^{11} R^7 + 36 l^{10} R^8 - 2484 l^8 r^2 R^8 - 218920 l^6 r^4 R^8 + 1641544 l^4 r^6 R^8 - 1831548 l^2 r^8 R^8 - 212244 r^{10} R^8 - 720 l^8 r R^9 - 22272 l^6 r^3 R^9 + 656544 l^4 r^5 R^9 - 1295616 l^2 r^7 R^9 - 389072 r^9 R^9 + 1872 l^6 r^2 R^{10} + 133344 l^4 r^4 R^{10} - 570032 l^2 r^6 R^{10} - 484736 r^8 R^{10} + 8064 l^4 r^3 R^{11} - 141696 l^2 r^5 R^{11} - 389632 r^7 R^{11} - 16128 l^2 r^4 R^{12} - 181248 r^6 R^{12} - 36864 r^5 R^{13}\right) \Big/ \left((l - r - 2R)^2 (l + r + 2R)^2 \left(l^2 - r^2 - 4 r R\right)^2 \left(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 3 l^2 R^2 + 19 r^2 R^2 + 12 r R^3\right)^2\right)\}$$

{X50, X(74)-CEVA CONJUGATE OF X(184), X67, ISOGONAL CONJUGATE OF X(23),

$$\left(\left(l^2 - r^2 - 4 r R - 3 R^2\right)^2 \left(l^{12} + 14 l^{10} r^2 - 209 l^8 r^4 + 580 l^6 r^6 - 209 l^4 r^8 + 14 l^2 r^{10} + r^{12} - 24 l^{10} r R - 200 l^8 r^3 R + 1872 l^6 r^5 R - 1872 l^4 r^7 R + 200 l^2 r^9 R + 24 r^{11} R - 4 l^{10} R^2 + 68 l^8 r^2 R^2 + 2072 l^6 r^4 R^2 - 5816 l^4 r^6 R^2 + 1132 l^2 r^8 R^2 + 244 r^{10} R^2 + 80 l^8 r R^3 + 704 l^6 r^3 R^3 - 7712 l^4 r^5 R^3 + 3264 l^2 r^7 R^3 + 1360 r^9 R^3 - 208 l^6 r^2 R^4 - 4320 l^4 r^4 R^4 + 5168 l^2 r^6 R^4 + 4480 r^8 R^4 - 896 l^4 r^3 R^5 + 4480 l^2 r^5 R^5 + 8704 r^7 R^5 + 1792 l^2 r^4 R^6 + 9216 r^6 R^6 + 4096 r^5 R^7\right)\right) \Big/ \left(\left(l^2 - r^2 - 4 r R\right)^2 \left(2 l^2 - 2 r^2 - 8 r R - 9 R^2\right) \left(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 3 l^2 R^2 + 19 r^2 R^2 + 12 r R^3\right)^2\right)\}$$

{X50, X(74)-CEVA CONJUGATE OF X(184), X68, PRASOLOV POINT,

$$\left(12 l^{12} r^2 - 124 l^{10} r^4 + 376 l^8 r^6 - 376 l^6 r^8 + 124 l^4 r^{10} - 12 l^2 r^{12} - 240 l^{10} r^3 R + 1728 l^8 r^5 R - 3232 l^6 r^7 R + 1728 l^4 r^9 R - 240 l^2 r^{11} R + l^{12} R^2 - 186 l^{10} r^2 R^2 + 3311 l^8 r^4 R^2 - 11564 l^6 r^6 R^2 + 10223 l^4 r^8 R^2 - 2106 l^2 r^{10} R^2 + r^{12} R^2 - 24 l^{10} r R^3 + 3000 l^8 r^3 R^3 - 21808 l^6 r^5 R^3 + 33584 l^4 r^7 R^3 - 10680 l^2 r^9 R^3 + 24 r^{11} R^3 - 10 l^{10} R^4 + 1298 l^8 r^2 R^4 - 23444 l^6 r^4 R^4 + 67060 l^4 r^6 R^4 - 34658 l^2 r^8 R^4 + 250 r^{10} R^4 + 200 l^8 r R^5 - 14176 l^6 r^3 R^5 + 83632 l^4 r^5 R^5 - 75104 l^2 r^7 R^5 + 1480 r^9 R^5 + 37 l^8 R^6 - 4436 l^6 r^2 R^6 + 64734 l^4 r^4 R^6 - 109780 l^2 r^6 R^6 + 5477 r^8 R^6 - 592 l^6 r R^7 + 29680 l^4 r^3 R^7 - 106736 l^2 r^5 R^7 + 13136 r^7 R^7 - 60 l^6 R^8 + 7188 l^4 r^2 R^8 - 66548 l^2 r^4 R^8 + 20508 r^6 R^8 + 720 l^4 r R^9 - 24736 l^2 r^3 R^9 + 20432 r^5 R^9 + 36 l^4 R^{10} - 4680 l^2 r^2 R^{10} + 12388 r^4 R^{10} - 288 l^2 r R^{11} + 4128 r^3 R^{11} + 576 r^2 R^{12}\right) \Big/ \left((l - r - 2R)^2 (l + r + 2R)^2 \left(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 3 l^2 R^2 + 19 r^2 R^2 + 12 r R^3\right)^2\right)\}$$

{X50, X(74)-CEVA CONJUGATE OF X(184), X69, SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE,

$$\left(l^{14} + l^{12} r^2 - 99 l^{10} r^4 + 413 l^8 r^6 - 413 l^6 r^8 + 99 l^4 r^{10} - l^2 r^{12} - r^{14} - 28 l^{12} r R + 8 l^{10} r^3 R + 1180 l^8 r^5 R - 2832 l^6 r^7 R + 1180 l^4 r^9 R + 8 l^2 r^{11} R - 28 r^{13} R - 6 l^{12} R^2 + 204 l^{10} r^2 R^2 + 1014 l^8 r^4 R^2 - 7640 l^6 r^6 R^2 + 5734 l^4 r^8 R^2 + 268 l^2 r^{10} R^2 - 342 r^{12} R^2 + 144 l^{10} r R^3 - 272 l^8 r^3 R^3 - 9440 l^6 r^5 R^3 + 15200 l^4 r^7 R^3 + 1872 l^2 r^9 R^3 - 2384 r^{11} R^3 + 9 l^{10} R^4 - 729 l^8 r^2 R^4 - 5314 l^6 r^4 R^4 + 24194 l^4 r^6 R^4 + 5561 l^2 r^8 R^4 - 10409 r^{10} R^4 - 180 l^8 r R^5 - 672 l^6 r^3 R^5 + 22440 l^4 r^5 R^5 + 6496 l^2 r^7 R^5 - 29364 r^9 R^5 + 468 l^6 r^2 R^6 + 10872 l^4 r^4 R^6 - 1196 l^2 r^6 R^6 - 53152 r^8 R^6 + 2016 l^4 r^3 R^7 - 7776 l^2 r^5 R^7 - 59008 r^7 R^7 - 4032 l^2 r^4 R^8 - 36096 r^6 R^8 - 9216 r^5 R^9\right) \Big/ \left(\left(l^2 - r^2 - 4 r R\right)^2 \left(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 3 l^2 R^2 + 19 r^2 R^2 + 12 r R^3\right)^2\right)\}$$

{X50, X(74)-CEVA CONJUGATE OF X(184), X70, ISOGONAL CONJUGATE OF X(26),

$$\left(\left(l^2-r^2-4\,r\,R-3\,R^2\right)^2\left(12\,l^{12}\,r^2-124\,l^{10}\,r^4+376\,l^8\,r^6-376\,l^6\,r^8+124\,l^4\,r^{10}-12\,l^2\,r^{12}-240\,l^{10}\,r^3\,R+1728\,l^8\,r^5\,R-3232\,l^6\,r^7\,R+1728\,l^4\,r^9\,R-240\,l^2\,r^{11}\,R-152\,l^{10}\,r^2\,R^2+3072\,l^8\,r^4\,R^2-11\,088\,l^6\,r^6\,R^2+9984\,l^4\,r^8\,R^2-2072\,l^2\,r^{10}\,R^2+2432\,l^8\,r^3\,R^3-19\,328\,l^6\,r^5\,R^3+31\,104\,l^4\,r^7\,R^3-10\,112\,l^2\,r^9\,R^3-l^{10}\,R^4+741\,l^8\,r^2\,R^4-18\,202\,l^6\,r^4\,R^4+56\,858\,l^4\,r^6\,R^4-30\,693\,l^2\,r^8\,R^4+r^{10}\,R^4+20\,l^8\,r\,R^5-8912\,l^6\,r^3\,R^5+62\,264\,l^4\,r^5\,R^5-60\,112\,l^2\,r^7\,R^5+20\,r^9\,R^5+6\,l^8\,R^6-1836\,l^6\,r^2\,R^6+40\,076\,l^4\,r^4\,R^6-76\,396\,l^2\,r^6\,R^6+166\,r^8\,R^6-96\,l^6\,r\,R^7+14\,144\,l^4\,r^3\,R^7-61\,888\,l^2\,r^5\,R^7+736\,r^7\,R^7-9\,l^6\,R^8+2247\,l^4\,r^2\,R^8-30\,535\,l^2\,r^4\,R^8+1865\,r^6\,R^8+108\,l^4\,r\,R^9-8328\,l^2\,r^3\,R^9+2668\,r^5\,R^9+4\,l^4\,R^{10}-1028\,l^2\,r^2\,R^{10}+1972\,r^4\,R^{10}-32\,l^2\,r\,R^{11}+608\,r^3\,R^{11}+64\,r^2\,R^{12}\right)\right)\Big/\left(\left(l^4-6\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-3\,l^2\,R^2+19\,r^2\,R^2+12\,r\,R^3\right)^2\left(l^4-2\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-6\,l^2\,R^2+22\,r^2\,R^2+24\,r\,R^3+7\,R^4\right)^2\right)\}$$

{X50, X(74)-CEVA CONJUGATE OF X(184), X71, ISOGONAL CONJUGATE OF X(27),

$$\left(4\,l^4\,R^2\left(3\,l^8-36\,l^6\,r^2+114\,l^4\,r^4-100\,l^2\,r^6+3\,r^8-52\,l^6\,r\,R+372\,l^4\,r^3\,R-572\,l^2\,r^5\,R+28\,r^7\,R-14\,l^6\,R^2+398\,l^4\,r^2\,R^2-1146\,l^2\,r^4\,R^2+42\,r^6\,R^2+144\,l^4\,r\,R^3-848\,l^2\,r^3\,R^3-352\,r^5\,R^3+3\,l^4\,R^4-6\,l^2\,r^2\,R^4-1609\,r^4\,R^4+228\,l^2\,r\,R^5-2668\,r^3\,R^5+36\,l^2\,R^6-1968\,r^2\,R^6-576\,r\,R^7\right)\right)\Big/\left(\left(l^2+r^2+6\,r\,R+8\,R^2\right)^2\left(l^4-6\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-3\,l^2\,R^2+19\,r^2\,R^2+12\,r\,R^3\right)^2\right)\}$$

{X50, X(74)-CEVA CONJUGATE OF X(184), X72, ISOGONAL CONJUGATE OF X(28),

$$-\left(\left(-l^{10}\,r+13\,l^8\,r^3-50\,l^6\,r^5+50\,l^4\,r^7-13\,l^2\,r^9+r^{11}-l^{10}\,R+28\,l^8\,r^2\,R-194\,l^6\,r^4\,R+408\,l^4\,r^6\,R-181\,l^2\,r^8\,R+20\,r^{10}\,R+34\,l^8\,r\,R^2-400\,l^6\,r^3\,R^2+1316\,l^4\,r^5\,R^2-1024\,l^2\,r^7\,R^2+170\,r^9\,R^2+6\,l^8\,R^3-370\,l^6\,r^2\,R^3+2210\,l^4\,r^4\,R^3-3046\,l^2\,r^6\,R^3+800\,r^8\,R^3-153\,l^6\,r\,R^4+2107\,l^4\,r^3\,R^4-5155\,l^2\,r^5\,R^4+2273\,r^7\,R^4-9\,l^6\,R^5+1014\,l^4\,r^2\,R^5-5017\,l^2\,r^4\,R^5+3980\,r^6\,R^5+180\,l^4\,r\,R^6-2664\,l^2\,r^3\,R^6+4180\,r^5\,R^6-612\,l^2\,r^2\,R^7+2400\,r^4\,R^7+576\,r^3\,R^8\right)\Big/\left(R\left(l^4-6\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-3\,l^2\,R^2+19\,r^2\,R^2+12\,r\,R^3\right)^2\right)\right)\}$$

{X50, X(74)-CEVA CONJUGATE OF X(184), X73, CROSSPOINT OF INCENTER AND CIRCUMCENTER,

$$\left(4\,r^2\,R^2\left(3\,l^8\,r^2-100\,l^6\,r^4+114\,l^4\,r^6-36\,l^2\,r^8+3\,r^{10}-4\,l^8\,r\,R-100\,l^6\,r^3\,R+700\,l^4\,r^5\,R-428\,l^2\,r^7\,R+56\,r^9\,R-4\,l^8\,R^2+106\,l^6\,r^2\,R^2+1166\,l^4\,r^4\,R^2-1906\,l^2\,r^6\,R^2+430\,r^8\,R^2+152\,l^6\,r\,R^3-200\,l^4\,r^3\,R^3-3624\,l^2\,r^5\,R^3+1720\,r^7\,R^3+40\,l^6\,R^4-1737\,l^4\,r^2\,R^4-1358\,l^2\,r^4\,R^4+3619\,r^6\,R^4-1092\,l^4\,r\,R^5+4988\,l^2\,r^3\,R^5+2848\,r^5\,R^5-132\,l^4\,R^6+6876\,l^2\,r^2\,R^6-3380\,r^4\,R^6+2784\,l^2\,r\,R^7-9520\,r^3\,R^7+144\,l^2\,R^8-7872\,r^2\,R^8-2304\,r\,R^9\right)\right)\Big/\left(\left(l^2+r^2-2\,r\,R-4\,R^2\right)^2\left(l^4-6\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-3\,l^2\,R^2+19\,r^2\,R^2+12\,r\,R^3\right)^2\right)\}$$

{X50, X(74)-CEVA CONJUGATE OF X(184), X74, ISOGONAL CONJUGATE OF EULER INFINITY POINT,

$$\left(R^2\left(9\,l^{10}-117\,l^8\,r^2+386\,l^6\,r^4-386\,l^4\,r^6+117\,l^2\,r^8-9\,r^{10}-180\,l^8\,r\,R+1584\,l^6\,r^3\,R-3128\,l^4\,r^5\,R+1584\,l^2\,r^7\,R-180\,r^9\,R-90\,l^8\,R^2+2376\,l^6\,r^2\,R^2-9756\,l^4\,r^4\,R^2+8712\,l^2\,r^6\,R^2-1530\,r^8\,R^2+1440\,l^6\,r\,R^3-14\,688\,l^4\,r^3\,R^3+25\,056\,l^2\,r^5\,R^3-7200\,r^7\,R^3+297\,l^6\,R^4-10\,935\,l^4\,r^2\,R^4+40\,311\,l^2\,r^4\,R^4-20\,457\,r^6\,R^4-3564\,l^4\,r\,R^5+35\,784\,l^2\,r^3\,R^5-35\,820\,r^5\,R^5-324\,l^4\,R^6+15\,876\,l^2\,r^2\,R^6-37\,620\,r^4\,R^6+2592\,l^2\,r\,R^7-21\,600\,r^3\,R^7-5184\,r^2\,R^8\right)\right)\Big/\left(\left(2\,l^2-2\,r^2-8\,r\,R-9\,R^2\right)\left(l^4-6\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-3\,l^2\,R^2+19\,r^2\,R^2+12\,r\,R^3\right)^2\right)\}$$

{X50, X(74)-CEVA CONJUGATE OF X(184), X75, ISOTOMIC CONJUGATE OF INCENTER,

$$\left(l^{14}-3\,l^{12}\,r^2-15\,l^{10}\,r^4-11\,l^8\,r^6+11\,l^6\,r^8+15\,l^4\,r^{10}+3\,l^2\,r^{12}-r^{14}-28\,l^{12}\,r\,R+168\,l^{10}\,r^3\,R-548\,l^8\,r^5\,R+1008\,l^6\,r^7\,R-164\,l^4\,r^9\,R+104\,l^2\,r^{11}\,R-28\,r^{13}\,R-6\,l^{12}\,R^2+260\,l^{10}\,r^2\,R^2-1578\,l^8\,r^4\,R^2+4888\,l^6\,r^6\,R^2-2938\,l^4\,r^8\,R^2+1252\,l^2\,r^{10}\,R^2-342\,r^{12}\,R^2+144\,l^{10}\,r\,R^3-1872\,l^8\,r^3\,R^3+9344\,l^6\,r^5\,R^3-13\,600\,l^4\,r^7\,R^3+7472\,l^2\,r^9\,R^3-2384\,r^{11}\,R^3+9\,l^{10}\,R^4-957\,l^8\,r^2\,R^4+9050\,l^6\,r^4\,R^4-27\,994\,l^4\,r^6\,R^4+24\,797\,l^2\,r^8\,R^4-10\,409\,r^{10}\,R^4-180\,l^8\,r\,R^5+4416\,l^6\,r^3\,R^5-28\,472\,l^4\,r^5\,R^5+47\,008\,l^2\,r^7\,R^5-29\,364\,r^9\,R^5+756\,l^6\,r^2\,R^6-14\,424\,l^4\,r^4\,R^6+49\,364\,l^2\,r^6\,R^6-53\,152\,r^8\,R^6-3168\,l^4\,r^3\,R^7+26\,016\,l^2\,r^5\,R^7-59\,008\,r^7\,R^7+5184\,l^2\,r^4\,R^8-36\,096\,r^6\,R^8-9216\,r^5\,R^9\right)\Big/\left(\left(l^2+r^2+4\,r\,R\right)^2\left(l^4-6\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-3\,l^2\,R^2+19\,r^2\,R^2+12\,r\,R^3\right)^2\right)\}$$

{X50, X(74)-CEVA CONJUGATE OF X(184), X76, 3rd BROCARD POINT,
$(l^{18} - l^{16} r^2 - 20 l^{14} r^4 - 44 l^{12} r^6 - 26 l^{10} r^8 + 26 l^8 r^{10} + 44 l^6 r^{12} + 20 l^4 r^{14} + l^2 r^{16} - r^{18} -$
$36 l^{16} r R + 64 l^{14} r^3 R + 336 l^{12} r^5 R + 192 l^{10} r^7 R - 88 l^8 r^9 R + 192 l^6 r^{11} R + 336 l^4 r^{13} R +$
$64 l^2 r^{15} R - 36 r^{17} R - 6 l^{16} R^2 + 456 l^{14} r^2 R^2 - 344 l^{12} r^4 R^2 - 4552 l^{10} r^6 R^2 + 8316 l^8 r^8 R^2 -$
$3784 l^6 r^{10} R^2 + 2344 l^4 r^{12} R^2 + 1224 l^2 r^{14} R^2 - 582 r^{16} R^2 + 192 l^{14} r R^3 - 2688 l^{12} r^3 R^3 -$
$4352 l^{10} r^5 R^3 + 35392 l^8 r^7 R^3 - 36160 l^6 r^9 R^3 + 9728 l^4 r^{11} R^3 + 11648 l^2 r^{13} R^3 - 5568 r^{15} R^3 +$
$9 l^{14} R^4 - 1995 l^{12} r^2 R^4 + 4713 l^{10} r^4 R^4 + 54973 l^8 r^6 R^4 - 125757 l^6 r^8 R^4 + 32151 l^4 r^{10} R^4 +$
$64715 l^2 r^{12} R^4 - 34953 r^{14} R^4 - 252 l^{12} r R^5 + 7896 l^{10} r^3 R^5 + 32316 l^8 r^5 R^5 - 213808 l^6 r^7 R^5 +$
$94780 l^4 r^9 R^5 + 222936 l^2 r^{11} R^5 - 150780 r^{13} R^5 + 2052 l^{10} r^2 R^6 + 192 l^8 r^4 R^6 - 195624 l^6 r^6 R^6 +$
$206256 l^4 r^8 R^6 + 480964 l^2 r^{10} R^6 - 454608 r^{12} R^6 - 4608 l^8 r^3 R^7 - 89664 l^6 r^5 R^7 + 272064 l^4 r^7 R^7 +$
$629824 l^2 r^9 R^7 - 954048 r^{11} R^7 - 12672 l^6 r^4 R^8 + 192000 l^4 r^6 R^8 + 458880 l^2 r^8 R^8 - 1358592 r^{10} R^8 +$
$55296 l^4 r^5 R^9 + 150528 l^2 r^7 R^9 - 1242112 r^9 R^9 + 9216 l^2 r^6 R^{10} - 651264 r^8 R^{10} - 147456 r^7 R^{11}) /$
$((l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2)^2$
$(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 3 l^2 R^2 + 19 r^2 R^2 + 12 r R^3)^2)$}

{X50, X(74)-CEVA CONJUGATE OF X(184), X77, ISOGONAL CONJUGATE OF X(33),
$(r^2 R (6 l^{10} r - 44 l^8 r^3 + 56 l^6 r^5 - 20 l^4 r^7 + 2 l^2 r^9 + 5 l^{10} R - 161 l^8 r^2 R + 450 l^6 r^4 R -$
$294 l^4 r^6 R + 49 l^2 r^8 R - r^{10} R - 196 l^8 r R^2 + 1644 l^6 r^3 R^2 - 1936 l^4 r^5 R^2 + 548 l^2 r^7 R^2 -$
$28 r^9 R^2 - 62 l^8 R^3 + 2696 l^6 r^2 R^3 - 7180 l^4 r^4 R^3 + 3560 l^2 r^6 R^3 - 342 r^8 R^3 + 1810 l^6 r R^4 -$
$15028 l^4 r^3 R^4 + 14290 l^2 r^5 R^4 - 2384 r^7 R^4 + 301 l^6 R^5 - 16155 l^4 r^2 R^5 + 35435 l^2 r^4 R^5 -$
$10409 r^6 R^5 - 7380 l^4 r R^6 + 52032 l^2 r^3 R^6 - 29364 r^5 R^6 - 672 l^4 R^7 + 40980 l^2 r^2 R^7 -$
$53152 r^4 R^7 + 13728 l^2 r R^8 - 59008 r^3 R^8 + 576 l^2 R^9 - 36096 r^2 R^9 - 9216 r R^{10})) /$
$((l^2 - r R - 4 R^2)^2 (l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 3 l^2 R^2 + 19 r^2 R^2 + 12 r R^3)^2)$}

{X50, X(74)-CEVA CONJUGATE OF X(184), X78, ISOGONAL CONJUGATE OF X(34),
$-((R (6 l^8 r^3 - 44 l^6 r^5 + 56 l^4 r^7 - 20 l^2 r^9 + 2 r^{11} - l^{10} R + 5 l^8 r^2 R - 74 l^6 r^4 R + 350 l^4 r^6 R - 237 l^2 r^8 R +$
$37 r^{10} R + 28 l^8 r R^2 - 216 l^6 r^3 R^2 + 884 l^4 r^5 R^2 - 1144 l^2 r^7 R^2 + 288 r^9 R^2 + 6 l^8 R^3 -$
$256 l^6 r^2 R^3 + 1452 l^4 r^4 R^3 - 2960 l^2 r^6 R^3 + 1230 r^8 R^3 - 144 l^6 r R^4 + 1618 l^4 r^3 R^4 -$
$4596 l^2 r^5 R^4 + 3154 r^7 R^4 - 9 l^6 R^5 + 879 l^4 r^2 R^5 - 4471 l^2 r^4 R^5 + 4989 r^6 R^5 +$
$180 l^4 r R^6 - 2520 l^2 r^3 R^6 + 4780 r^5 R^6 - 612 l^2 r^2 R^7 + 2544 r^4 R^7 + 576 r^3 R^8)) /$
$((r - R)^2 (l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 3 l^2 R^2 + 19 r^2 R^2 + 12 r R^3)^2))$}

{X50, X(74)-CEVA CONJUGATE OF X(184), X79, ISOGONAL CONJUGATE OF X(35),
$-((4 r^2 (2 l^{10} - 32 l^8 r^2 + 132 l^6 r^4 - 80 l^4 r^6 + 10 l^2 r^8 - 47 l^8 r R + 428 l^6 r^3 R - 666 l^4 r^5 R +$
$140 l^2 r^7 R + r^9 R - 18 l^8 R^2 + 560 l^6 r^2 R^2 - 2004 l^4 r^4 R^2 + 768 l^2 r^6 R^2 + 22 r^8 R^2 +$
$309 l^6 r R^3 - 2663 l^4 r^3 R^3 + 2035 l^2 r^5 R^3 + 207 r^7 R^3 + 45 l^6 R^4 - 1614 l^4 r^2 R^4 +$
$2465 l^2 r^4 R^4 + 1084 r^6 R^4 - 369 l^4 r R^5 + 582 l^2 r^3 R^5 + 3439 r^5 R^5 - 1242 l^2 r^2 R^6 +$
$6726 r^4 R^6 - 837 l^2 r R^7 + 7857 r^3 R^7 - 81 l^2 R^8 + 4968 r^2 R^8 + 1296 r R^9)) /$
$((2 r + 3 R)^2 (l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 3 l^2 R^2 + 19 r^2 R^2 + 12 r R^3)^2))$}

{X50, X(74)-CEVA CONJUGATE OF X(184), X80, REFLECTION OF INCENTER IN FEUERBACH POINT,
$(4 r^2 (5 l^8 r - 40 l^6 r^3 + 66 l^4 r^5 - 16 l^2 r^7 + r^9 - 70 l^6 r^2 R + 310 l^4 r^4 R -$
$178 l^2 r^6 R + 18 r^8 R - 45 l^6 r R^2 + 565 l^4 r^3 R^2 - 759 l^2 r^5 R^2 + 135 r^7 R^2 - l^6 R^3 +$
$462 l^4 r^2 R^3 - 1597 l^2 r^4 R^3 + 548 r^6 R^3 + 159 l^4 r R^4 - 1786 l^2 r^3 R^4 + 1311 r^5 R^4 + 6 l^4 R^5 -$
$1032 l^2 r^2 R^5 + 1890 r^4 R^5 - 255 l^2 r R^6 + 1609 r^3 R^6 - 9 l^2 R^7 + 744 r^2 R^7 + 144 r R^8)) /$
$((2 r - R) (l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 3 l^2 R^2 + 19 r^2 R^2 + 12 r R^3)^2)$}

{X50, X(74)-CEVA CONJUGATE OF X(184), X81, CEVAPOINT OF INCENTER AND SYMMEDIAN POINT,
$(r^2 R (4 l^{10} r - 16 l^8 r^3 - 40 l^6 r^5 - 16 l^4 r^7 + 4 l^2 r^9 + l^{10} R - 37 l^8 r^2 R - 150 l^6 r^4 R -$
$58 l^4 r^6 R + 53 l^2 r^8 R - r^{10} R - 32 l^8 r R^2 - 60 l^6 r^3 R^2 + 148 l^4 r^5 R^2 + 284 l^2 r^7 R^2 -$
$20 r^9 R^2 - 6 l^8 R^3 + 136 l^6 r^2 R^3 + 828 l^4 r^4 R^3 + 712 l^2 r^6 R^3 - 166 r^8 R^3 + 96 l^6 r R^4 +$
$896 l^4 r^3 R^4 + 608 l^2 r^5 R^4 - 736 r^7 R^4 + 9 l^6 R^5 + 153 l^4 r^2 R^5 - 601 l^2 r^4 R^5 - 1865 r^6 R^5 -$
$108 l^4 r R^6 - 1272 l^2 r^3 R^6 - 2668 r^5 R^6 - 540 l^2 r^2 R^7 - 1968 r^4 R^7 - 576 r^3 R^8)) /$
$((l^2 - r^2 - r R)^2 (l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 3 l^2 R^2 + 19 r^2 R^2 + 12 r R^3)^2)$}

{X50, X(74)-CEVA CONJUGATE OF X(184), X82, ISOGONAL CONJUGATE OF X(38),

$$\left(r^2 R \left(2 l^{14} r - 6 l^{12} r^3 - 30 l^{10} r^5 - 22 l^8 r^7 + 22 l^6 r^9 + 30 l^4 r^{11} + 6 l^2 r^{13} - 2 r^{15} + l^{14} R - 59 l^{12} r^2 R + 137 l^{10} r^4 R + 133 l^8 r^6 R - 69 l^6 r^8 R + 247 l^4 r^{10} R + 187 l^2 r^{12} R - 65 r^{14} R - 36 l^{12} r R^2 + 748 l^{10} r^3 R^2 - 1840 l^8 r^5 R^2 + 1368 l^6 r^7 R^2 - 772 l^4 r^9 R^2 + 2492 l^2 r^{11} R^2 - 936 r^{13} R^2 - 6 l^{12} R^3 + 540 l^{10} r^2 R^3 - 5930 l^8 r^4 R^3 + 14200 l^6 r^6 R^3 - 15530 l^4 r^8 R^3 + 18412 l^2 r^{10} R^3 - 7846 r^{12} R^3 + 174 l^{10} r R^4 - 5218 l^8 r^3 R^4 + 34692 l^6 r^5 R^4 - 68796 l^4 r^7 R^4 + 82318 l^2 r^9 R^4 - 42274 r^{11} R^4 + 9 l^{10} R^5 - 1869 l^8 r^2 R^5 + 33018 l^6 r^4 R^5 - 139674 l^4 r^6 R^5 + 228797 l^2 r^8 R^5 - 152409 r^{10} R^5 - 252 l^8 r R^6 + 13752 l^6 r^3 R^6 - 140112 l^4 r^5 R^6 + 391528 l^2 r^7 R^6 - 370580 r^9 R^6 + 2484 l^6 r^2 R^7 - 67320 l^4 r^4 R^7 + 394548 l^2 r^6 R^7 - 596384 r^8 R^7 - 14688 l^4 r^3 R^8 + 212256 l^2 r^5 R^8 - 603264 r^7 R^8 + 46656 l^2 r^4 R^9 - 343296 r^6 R^9 - 82944 r^5 R^{10}\right)\right) \Big/ \left(\left(l^4 - 4 l^2 r^2 + 3 r^4 - 9 l^2 r R + 19 r^3 R + 28 r^2 R^2\right)^2 \left(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 3 l^2 R^2 + 19 r^2 R^2 + 12 r R^3\right)^2\right)\}$$

{X50, X(74)-CEVA CONJUGATE OF X(184), X83, CEVAPOINT OF CENTROID AND SYMMEDIAN POINT,

$$\left(l^{18} + 15 l^{16} r^2 - 68 l^{14} r^4 - 284 l^{12} r^6 - 202 l^{10} r^8 + 202 l^8 r^{10} + 284 l^6 r^{12} + 68 l^4 r^{14} - 15 l^2 r^{16} - r^{18} - 36 l^{16} r R - 384 l^{14} r^3 R + 1744 l^{12} r^5 R + 1664 l^{10} r^7 R - 856 l^8 r^9 R + 1664 l^6 r^{11} R + 1744 l^4 r^{13} R - 384 l^2 r^{15} R - 36 r^{17} R - 6 l^{16} R^2 + 408 l^{14} r^2 R^2 + 3912 l^{12} r^4 R^2 - 17048 l^{10} r^6 R^2 + 13116 l^8 r^8 R^2 - 10392 l^6 r^{10} R^2 + 17864 l^4 r^{12} R^2 - 4200 l^2 r^{14} R^2 - 582 r^{16} R^2 + 192 l^{14} r R^3 - 1536 l^{12} r^3 R^3 - 23424 l^{10} r^5 R^3 + 87872 l^8 r^7 R^3 - 102976 l^6 r^9 R^3 + 95360 l^4 r^{11} R^3 - 25344 l^2 r^{13} R^3 - 5568 r^{15} R^3 + 9 l^{14} R^4 - 1995 l^{12} r^2 R^4 - 2583 l^{10} r^4 R^4 + 101181 l^8 r^6 R^4 - 276925 l^6 r^8 R^4 + 286999 l^4 r^{10} R^4 - 90165 l^2 r^{12} R^4 - 34953 r^{14} R^4 - 252 l^{12} r R^5 + 7896 l^{10} r^3 R^5 + 43068 l^8 r^5 R^5 - 298800 l^6 r^7 R^5 + 490556 l^4 r^9 R^5 - 182568 l^2 r^{11} R^5 - 150780 r^{13} R^5 + 2052 l^{10} r^2 R^6 + 192 l^8 r^4 R^6 - 177192 l^6 r^6 R^6 + 470448 l^4 r^8 R^6 - 162108 l^2 r^{10} R^6 - 454608 r^{12} R^6 - 4608 l^8 r^3 R^7 - 89664 l^6 r^5 R^7 + 296640 l^4 r^7 R^7 + 72768 l^2 r^9 R^7 - 954048 r^{11} R^7 - 12672 l^6 r^4 R^8 + 192000 l^4 r^6 R^8 + 262272 l^2 r^8 R^8 - 1358592 r^{10} R^8 + 55296 l^4 r^5 R^9 + 150528 l^2 r^7 R^9 - 1242112 r^9 R^9 + 9216 l^2 r^6 R^{10} - 651264 r^8 R^{10} - 147456 r^7 R^{11}\right) \Big/ \left(\left(5 l^4 - 6 l^2 r^2 + 5 r^4 - 40 l^2 r R + 40 r^3 R + 80 r^2 R^2\right)^2 \left(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 3 l^2 R^2 + 19 r^2 R^2 + 12 r R^3\right)^2\right)\}$$

{X50, X(74)-CEVA CONJUGATE OF X(184), X84, ISOGONAL CONJUGATE OF X(40),

$$\left(4 R \left(l^{10} r - 9 l^8 r^3 + 19 l^6 r^5 - 3 l^4 r^7 - l^{10} R - 6 l^8 r^2 R + 57 l^6 r^4 R - 48 l^4 r^6 R + 2 l^2 r^8 R + 10 l^8 r R^2 + 30 l^6 r^3 R^2 - 148 l^4 r^5 R^2 + 24 l^2 r^7 R^2 + 10 l^8 R^3 - 102 l^6 r^2 R^3 + 28 l^4 r^4 R^3 + 44 l^2 r^6 R^3 + 4 r^8 R^3 - 127 l^6 r R^4 + 575 l^4 r^3 R^4 - 328 l^2 r^5 R^4 + 64 r^7 R^4 - 33 l^6 R^5 + 768 l^4 r^2 R^5 - 1494 l^2 r^4 R^5 + 408 r^6 R^5 + 360 l^4 r R^6 - 2224 l^2 r^3 R^6 + 1312 r^5 R^6 + 36 l^4 R^7 - 1368 l^2 r^2 R^7 + 2212 r^4 R^7 - 288 l^2 r R^8 + 1824 r^3 R^8 + 576 r^2 R^9\right)\right) \Big/ \left(r^2 \left(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 3 l^2 R^2 + 19 r^2 R^2 + 12 r R^3\right)^2\right)\}$$

{X50, X(74)-CEVA CONJUGATE OF X(184), X85, ISOTOMIC CONJUGATE OF X(9),

$$\left(l^{14} - 3 l^{12} r^2 - 15 l^{10} r^4 - 11 l^8 r^6 + 11 l^6 r^8 + 15 l^4 r^{10} + 3 l^2 r^{12} - r^{14} - 36 l^{12} r R + 312 l^{10} r^3 R - 1052 l^8 r^5 R + 592 l^6 r^7 R + 100 l^4 r^9 R + 120 l^2 r^{11} R - 36 r^{13} R - 6 l^{12} R^2 + 532 l^{10} r^2 R^2 - 3738 l^8 r^4 R^2 + 5496 l^6 r^6 R^2 - 1050 l^4 r^8 R^2 + 1908 l^2 r^{10} R^2 - 582 r^{12} R^2 + 256 l^{10} r R^3 - 5696 l^8 r^3 R^3 + 20256 l^6 r^5 R^3 - 14272 l^4 r^7 R^3 + 16416 l^2 r^9 R^3 - 5568 r^{11} R^3 + 9 l^{10} R^4 - 3869 l^8 r^2 R^4 + 35098 l^6 r^4 R^4 - 65306 l^4 r^6 R^4 + 85533 l^2 r^8 R^4 - 34953 r^{10} R^4 - 636 l^8 r R^5 + 30624 l^6 r^3 R^5 - 147240 l^4 r^5 R^5 + 281664 l^2 r^7 R^5 - 150780 r^9 R^5 + 11524 l^6 r^2 R^6 - 169576 l^4 r^4 R^6 + 587268 l^2 r^6 R^6 - 454608 r^8 R^6 + 576 l^6 r R^7 - 91584 l^4 r^3 R^7 + 747840 l^2 r^5 R^7 - 954048 r^7 R^7 - 16512 l^4 r^2 R^8 + 531072 l^2 r^4 R^8 - 1358592 r^6 R^8 + 168960 l^2 r^3 R^9 - 1242112 r^5 R^9 + 9216 l^2 r^2 R^{10} - 651264 r^4 R^{10} - 147456 r^3 R^{11}\right) \Big/ \left(\left(l^2 + r^2 + 8 r R + 16 R^2\right)^2 \left(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 3 l^2 R^2 + 19 r^2 R^2 + 12 r R^3\right)^2\right)\}$$

{X50, X(74)-CEVA CONJUGATE OF X(184), X86, CEVAPOINT OF INCENTER AND CENTROID,

$$\left(l^{14} + 21 l^{12} r^2 - 119 l^{10} r^4 - 219 l^8 r^6 - 5 l^6 r^8 + 71 l^4 r^{10} - 5 l^2 r^{12} - r^{14} - 12 l^{12} r R - 152 l^{10} r^3 R - 388 l^8 r^5 R + 624 l^6 r^7 R + 812 l^4 r^9 R - 88 l^2 r^{11} R - 28 r^{13} R - 6 l^{12} R^2 - 188 l^{10} r^2 R^2 - 90 l^8 r^4 R^2 + 3144 l^6 r^6 R^2 + 3702 l^4 r^8 R^2 - 716 l^2 r^{10} R^2 - 342 r^{12} R^2 + 48 l^{10} r R^3 + 560 l^8 r^3 R^3 + 6368 l^6 r^5 R^3 + 8608 l^4 r^7 R^3 - 3728 l^2 r^9 R^3 - 2384 r^{11} R^3 + 9 l^{10} R^4 + 843 l^8 r^2 R^4 + 6178 l^6 r^4 R^4 + 9246 l^4 r^6 R^4 - 13675 l^2 r^8 R^4 - 10409 r^{10} R^4 - 36 l^8 r R^5 + 1344 l^6 r^3 R^5 - 1480 l^4 r^5 R^5 - 34016 l^2 r^7 R^5 - 29364 r^9 R^5 - 1260 l^6 r^2 R^6 - 11640 l^4 r^4 R^6 - 51756 l^2 r^6 R^6 - 53152 r^8 R^6 - 6624 l^4 r^3 R^7 - 41568 l^2 r^5 R^7 - 59008 r^7 R^7 - 13248 l^2 r^4 R^8 - 36096 r^6 R^8 - 9216 r^5 R^9\right) \Big/ \left(\left(5 l^2 + r^2 + 4 r R\right)^2 \left(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 3 l^2 R^2 + 19 r^2 R^2 + 12 r R^3\right)^2\right)\}$$

$$\{X50,\ X(74)\text{-CEVA CONJUGATE OF } X(184),\ X87,\ X(2)\text{-CROSS CONJUGATE OF } X(1),$$
$$-\Big(\big(4 r^2 R \big(3 l^{14} r - 7 l^{12} r^3 - 49 l^{10} r^5 - 67 l^8 r^7 - 23 l^6 r^9 + 11 l^4 r^{11} + 5 l^2 r^{13} - r^{15} - l^{14} R - 82 l^{12} r^2 R +$$
$$297 l^{10} r^4 R + 552 l^8 r^6 R + 65 l^6 r^8 R + 38 l^4 r^{10} R + 119 l^2 r^{12} R - 28 r^{14} R + 4 l^{12} r R^2 +$$
$$542 l^{10} r^3 R^2 - 1414 l^8 r^5 R^2 - 2676 l^6 r^7 R^2 + 696 l^4 r^9 R^2 + 1078 l^2 r^{11} R^2 - 342 r^{13} R^2 + 6 l^{12} R^3 +$$
$$290 l^{10} r^2 R^3 - 1348 l^8 r^4 R^3 - 2220 l^6 r^6 R^3 + 6542 l^4 r^8 R^3 + 4746 l^2 r^{10} R^3 - 2384 r^{12} R^3 -$$
$$63 l^{10} r R^4 - 773 l^8 r^3 R^4 - 3006 l^6 r^5 R^4 + 18414 l^4 r^7 R^4 + 10301 l^2 r^9 R^4 - 10409 r^{11} R^4 -$$
$$9 l^{10} R^5 - 624 l^8 r^2 R^5 - 4942 l^6 r^4 R^5 + 17372 l^4 r^6 R^5 + 8719 l^2 r^8 R^5 - 29364 r^{10} R^5 +$$
$$72 l^8 r R^6 + 216 l^6 r^3 R^6 + 10552 l^4 r^5 R^6 - 1784 l^2 r^7 R^6 - 53152 r^9 R^6 + 1008 l^6 r^2 R^7 +$$
$$5856 l^4 r^4 R^7 - 3984 l^2 r^6 R^7 - 59008 r^8 R^7 + 2304 l^4 r^3 R^8 - 36096 r^7 R^8 - 9216 r^6 R^9\big)\big) \Big/$$
$$\big(\big(l^4 + 2 l^2 r^2 + r^4 - 20 l^2 r R + 12 r^3 R + 32 r^2 R^2\big)^2$$
$$\big(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 3 l^2 R^2 + 19 r^2 R^2 + 12 r R^3\big)^2\big)\Big)\}$$

$$\{X50,\ X(74)\text{-CEVA CONJUGATE OF } X(184),\ X88,\ \text{ISOGONAL CONJUGATE OF } X(44),$$
$$-\Big(\big(r^2 R \big(12 l^{10} r + 16 l^8 r^3 - 696 l^6 r^5 + 1168 l^4 r^7 - 180 l^2 r^9 - l^{10} R - 251 l^8 r^2 R + 390 l^6 r^4 R +$$
$$4426 l^4 r^6 R - 2277 l^2 r^8 R + 81 r^{10} R - 72 l^8 r R^2 - 60 l^6 r^3 R^2 + 6708 l^4 r^5 R^2 - 13572 l^2 r^7 R^2 +$$
$$1620 r^9 R^2 + 6 l^8 R^3 + 1272 l^6 r^2 R^3 + 12484 l^4 r^4 R^3 - 47592 l^2 r^6 R^3 + 13446 r^8 R^3 + 168 l^6 r R^4 +$$
$$10048 l^4 r^3 R^4 - 97128 l^2 r^5 R^4 + 59616 r^7 R^4 - 9 l^6 R^5 - 2649 l^4 r^2 R^5 - 101943 l^2 r^4 R^5 + 151065 r^6$$
$$R^5 - 180 l^4 r R^6 - 38664 l^2 r^3 R^6 + 216108 r^5 R^6 + 2268 l^2 r^2 R^7 + 159408 r^4 R^7 + 46656 r^3 R^8\big)\big) \Big/$$
$$\big(\big(l^2 + 3 r^2 - 15 r R\big)^2 \big(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 3 l^2 R^2 + 19 r^2 R^2 + 12 r R^3\big)^2\big)\Big)\}$$

$$\{X50,\ X(74)\text{-CEVA CONJUGATE OF } X(184),\ X89,\ \text{ISOGONAL CONJUGATE OF } X(45),$$
$$\big(r^2 R \big(32 l^8 r^3 + 96 l^6 r^5 - 1696 l^4 r^7 + 288 l^2 r^9 + l^{10} R + 107 l^8 r^2 R + 282 l^6 r^4 R - 10330 l^4 r^6 R +$$
$$4005 l^2 r^8 R - 81 r^{10} R + 36 l^8 r R^2 - 72 l^6 r^3 R^2 - 23376 l^4 r^5 R^2 + 24264 l^2 r^7 R^2 - 1620 r^9 R^2 -$$
$$6 l^8 R^3 - 840 l^6 r^2 R^3 - 23524 l^4 r^4 R^3 + 79128 l^2 r^6 R^3 - 13446 r^8 R^3 - 168 l^6 r R^4 - 6880 l^4 r^3 R^4 +$$
$$140328 l^2 r^5 R^4 - 59616 r^7 R^4 + 9 l^6 R^5 + 2649 l^4 r^2 R^5 + 122679 l^2 r^4 R^5 - 151065 r^6 R^5 +$$
$$180 l^4 r R^6 + 38664 l^2 r^3 R^6 - 216108 r^5 R^6 - 2268 l^2 r^2 R^7 - 159408 r^4 R^7 - 46656 r^3 R^8\big)\big) \Big/$$
$$\big(\big(2 l^2 - 6 r^2 + 3 r R\big)^2 \big(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 3 l^2 R^2 + 19 r^2 R^2 + 12 r R^3\big)^2\big)\}$$

$$\{X50,\ X(74)\text{-CEVA CONJUGATE OF } X(184),\ X90,\ X(3)\text{-CROSS CONJUGATE OF } X(1),$$
$$\big(4 r^2 R \big(l^{10} r - 9 l^8 r^3 + 19 l^6 r^5 - 3 l^4 r^7 - 12 l^8 r^2 R + 57 l^6 r^4 R - 42 l^4 r^6 R + l^2 r^8 R - 14 l^8 r R^2 + 134 l^6 r^3$$
$$R^2 - 188 l^4 r^5 R^2 + 16 l^2 r^7 R^2 + 138 l^6 r^2 R^3 - 430 l^4 r^4 R^3 + 100 l^2 r^6 R^3 + 70 l^6 r R^4 - 644 l^4 r^3 R^4 +$$
$$343 l^2 r^5 R^4 - r^7 R^4 + l^6 R^5 - 510 l^4 r^2 R^5 + 754 l^2 r^4 R^5 - 16 r^6 R^5 - 174 l^4 r R^6 + 1060 l^2 r^3 R^6 -$$
$$102 r^5 R^6 - 6 l^4 R^7 + 792 l^2 r^2 R^7 - 328 r^4 R^7 + 237 l^2 r R^8 - 553 r^3 R^8 + 9 l^2 R^9 - 456 r^2 R^9 - 144 r R^{10}\big)\big) \Big/$$
$$\big(\big(r^2 + 2 r R - R^2\big)^2 \big(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 3 l^2 R^2 + 19 r^2 R^2 + 12 r R^3\big)^2\big)\}$$

$$\{X50,\ X(74)\text{-CEVA CONJUGATE OF } X(184),\ X91,\ \text{ISOGONAL CONJUGATE OF } X(47),$$
$$\big(r^2 \big(l^{14} - 3 l^{12} r^2 - 15 l^{10} r^4 - 11 l^8 r^6 + 11 l^6 r^8 + 15 l^4 r^{10} + 3 l^2 r^{12} - r^{14} - 38 l^{12} r R +$$
$$228 l^{10} r^3 R - 530 l^8 r^5 R + 856 l^6 r^7 R - 234 l^4 r^9 R + 132 l^2 r^{11} R - 30 r^{13} R - 14 l^{12} R^2 +$$
$$528 l^{10} r^2 R^2 - 2630 l^8 r^4 R^2 + 5744 l^6 r^6 R^2 - 4186 l^4 r^8 R^2 + 1856 l^2 r^{10} R^2 - 402 r^{12} R^2 +$$
$$476 l^{10} r R^3 - 5528 l^8 r^3 R^3 + 18376 l^6 r^5 R^3 - 23712 l^4 r^7 R^3 + 13244 l^2 r^9 R^3 - 3176 r^{11} R^3 +$$
$$81 l^{10} R^4 - 5409 l^8 r^2 R^4 + 34082 l^6 r^4 R^4 - 70938 l^4 r^6 R^4 + 56333 l^2 r^8 R^4 - 16453 r^{10} R^4 -$$
$$2450 l^8 r R^5 + 37364 l^6 r^3 R^5 - 129688 l^4 r^5 R^5 + 153996 l^2 r^7 R^5 - 58838 r^9 R^5 - 248 l^8 R^6 +$$
$$22768 l^6 r^2 R^6 - 151900 l^4 r^4 R^6 + 281272 l^2 r^6 R^6 - 149060 r^8 R^6 + 6612 l^6 r R^7 -$$
$$112196 l^4 r^3 R^7 + 348956 l^2 r^5 R^7 - 270476 r^7 R^7 + 424 l^6 R^8 - 48196 l^4 r^2 R^8 + 292144 l^2 r^4 R^8 -$$
$$351588 r^6 R^8 - 9816 l^4 r R^9 + 158720 l^2 r^3 R^9 - 323944 r^5 R^9 - 384 l^4 R^{10} + 50832 l^2 r^2 R^{10} -$$
$$206176 r^4 R^{10} + 7536 l^2 r R^{11} - 86032 r^3 R^{11} + 144 l^2 R^{12} - 21120 r^2 R^{12} - 2304 r R^{13}\big)\big) \Big/$$
$$\big(\big(l^2 r + r^3 - l^2 R + 3 r^2 R + 2 r R^2 + 2 R^3\big)^2 \big(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 3 l^2 R^2 + 19 r^2 R^2 + 12 r R^3\big)^2\big)\}$$

{X50, X(74)-CEVA CONJUGATE OF X(184), X92, CEVAPOINT OF INCENTER AND CLAWSON POINT,

$$\left(l^{14}-3 l^{12} r^2-15 l^{10} r^4-11 l^8 r^6+11 l^6 r^8+15 l^4 r^{10}+3 l^2 r^{12}-r^{14}-36 l^{12} r R+224 l^{10} r^3 R-564 l^8 r^5 R+800 l^6 r^7 R-268 l^4 r^9 R+128 l^2 r^{11} R-28 r^{13} R-14 l^{12} R^2+484 l^{10} r^2 R^2-2530 l^8 r^4 R^2+5848 l^6 r^6 R^2-4402 l^4 r^8 R^2+1732 l^2 r^{10} R^2-350 r^{12} R^2+448 l^{10} r R^3-5184 l^8 r^3 R^3+18384 l^6 r^5 R^3-23984 l^4 r^7 R^3+11888 l^2 r^9 R^3-2576 r^{11} R^3+73 l^{10} R^4-4765 l^8 r^2 R^4+31514 l^6 r^4 R^4-68218 l^4 r^6 R^4+48413 l^2 r^8 R^4-12393 r^{10} R^4-2044 l^8 r R^5+31480 l^6 r^3 R^5-114160 l^4 r^5 R^5+124904 l^2 r^7 R^5-40884 r^9 R^5-168 l^8 R^6+16804 l^6 r^2 R^6-116808 l^4 r^4 R^6+208868 l^2 r^6 R^6-94280 r^8 R^6+4032 l^6 r R^7-71872 l^4 r^3 R^7+225024 l^2 r^5 R^7-151808 r^7 R^7+144 l^6 R^8-23568 l^4 r^2 R^8+150736 l^2 r^4 R^8-167056 r^6 R^8-2880 l^4 r R^9+57600 l^2 r^3 R^9-119488 r^5 R^9+9792 l^2 r^2 R^{10}-49920 r^4 R^{10}-9216 r^3 R^{11}\right) \Big/ \left(\left(l^2+r^2-4 R^2\right)^2 \left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-3 l^2 R^2+19 r^2 R^2+12 r R^3\right)^2\right)\}$$

{X50, X(74)-CEVA CONJUGATE OF X(184), X93, ISOGONAL CONJUGATE OF X(49),

$$\left(l^{18}-l^{16} r^2-20 l^{14} r^4-44 l^{12} r^6-26 l^{10} r^8+26 l^8 r^{10}+44 l^6 r^{12}+20 l^4 r^{14}+l^2 r^{16}-r^{18}-36 l^{16} r R+64 l^{14} r^3 R+336 l^{12} r^5 R+192 l^{10} r^7 R-88 l^8 r^9 R+192 l^6 r^{11} R+336 l^4 r^{13} R+64 l^2 r^{15} R-36 r^{17} R-16 l^{16} R^2+432 l^{14} r^2 R^2+288 l^{12} r^4 R^2-5040 l^{10} r^6 R^2+6048 l^8 r^8 R^2-4272 l^6 r^{10} R^2+2976 l^4 r^{12} R^2+1200 l^2 r^{14} R^2-592 r^{16} R^2+512 l^{14} r R^3-2432 l^{12} r^3 R^3-14720 l^{10} r^5 R^3+49664 l^8 r^7 R^3-50432 l^6 r^9 R^3+20096 l^4 r^{11} R^3+11392 l^2 r^{13} R^3-5888 r^{15} R^3+101 l^{14} R^4-4791 l^{12} r^2 R^4-8835 l^{10} r^4 R^4+147353 l^8 r^6 R^4-246681 l^6 r^8 R^4+107907 l^4 r^{10} R^4+64951 l^2 r^{12} R^4-39525 r^{14} R^4-2828 l^{12} r R^5+12632 l^{10} r^3 R^5+202956 l^8 r^5 R^5-673584 l^6 r^7 R^5+426188 l^4 r^9 R^5+237912 l^2 r^{11} R^5-189196 r^{13} R^5-316 l^{12} R^6+19036 l^{10} r^2 R^6+123580 l^8 r^4 R^6-1100248 l^6 r^6 R^6+1172972 l^4 r^8 R^6+566556 l^2 r^{10} R^6-665036 r^{12} R^6+7584 l^{10} r R^7+4576 l^8 r^3 R^7-1074432 l^6 r^5 R^7+2195328 l^4 r^7 R^7+830304 l^2 r^9 R^7-1741152 r^{11} R^7+499 l^{10} R^8-29391 l^8 r^2 R^8-589058 l^6 r^4 R^8+2737922 l^4 r^6 R^8+557583 l^2 r^8 R^8-3406131 r^{10} R^8-9980 l^8 r R^9-142928 l^6 r^3 R^9+2201688 l^4 r^5 R^9-350800 l^2 r^7 R^9-4945660 r^9 R^9-344 l^8 R^{10}+4344 l^6 r^2 R^{10}+1073472 l^4 r^4 R^{10}-1162312 l^2 r^6 R^{10}-5238072 r^8 R^{10}+5504 l^6 r R^{11}+279104 l^4 r^3 R^{11}-1150656 l^2 r^5 R^{11}-3921152 r^7 R^{11}+39 l^6 R^{12}+27015 l^4 r^2 R^{12}-585223 l^2 r^4 R^{12}-1966119 r^6 R^{12}-468 l^4 r R^{13}-151624 l^2 r^3 R^{13}-599508 r^5 R^{13}+36 l^4 R^{14}-16452 l^2 r^2 R^{14}-89900 r^4 R^{14}-288 l^2 r R^{15}-2208 r^3 R^{15}+576 r^2 R^{16}\right) \Big/ \left(\left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-3 l^2 R^2+19 r^2 R^2+12 r R^3\right)^2 \left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-8 l^2 R^2+24 r^2 R^2+32 r R^3+13 R^4\right)^2\right)\}$$

{X50, X(74)-CEVA CONJUGATE OF X(184), X94, ISOGONAL CONJUGATE OF X(50),

$$\left(l^{18}-l^{16} r^2-20 l^{14} r^4-44 l^{12} r^6-26 l^{10} r^8+26 l^8 r^{10}+44 l^6 r^{12}+20 l^4 r^{14}+l^2 r^{16}-r^{18}-36 l^{16} r R+64 l^{14} r^3 R+336 l^{12} r^5 R+192 l^{10} r^7 R-88 l^8 r^9 R+192 l^6 r^{11} R+336 l^4 r^{13} R+64 l^2 r^{15} R-36 r^{17} R-18 l^{16} R^2+432 l^{14} r^2 R^2+328 l^{12} r^4 R^2-4912 l^{10} r^6 R^2+6228 l^8 r^8 R^2-4144 l^6 r^{10} R^2+3016 l^4 r^{12} R^2+1200 l^2 r^{14} R^2-594 r^{16} R^2+576 l^{14} r R^3-2496 l^{12} r^3 R^3-15296 l^{10} r^5 R^3+49216 l^8 r^7 R^3-49984 l^6 r^9 R^3+20672 l^4 r^{11} R^3+11456 l^2 r^{13} R^3-5952 r^{15} R^3+135 l^{14} R^4-5517 l^{12} r^2 R^4-8529 l^{10} r^4 R^4+147907 l^8 r^6 R^4-246339 l^6 r^8 R^4+111057 l^4 r^{10} R^4+66317 l^2 r^{12} R^4-40455 r^{14} R^4-3780 l^{12} r R^5+17352 l^{10} r^3 R^5+204804 l^8 r^5 R^5-675088 l^6 r^7 R^5+433156 l^4 r^9 R^5+250824 l^2 r^{11} R^5-197316 r^{13} R^5-540 l^{12} R^6+27324 l^{10} r^2 R^6+111996 l^8 r^4 R^6-1110552 l^6 r^6 R^6+1173900 l^4 r^8 R^6+637180 l^2 r^{10} R^6-712524 r^{12} R^6+12960 l^{10} r R^7-26784 l^8 r^3 R^7-1089792 l^6 r^5 R^7+2182272 l^4 r^7 R^7+1074784 l^2 r^9 R^7-1937376 r^{11} R^7+1215 l^{10} R^8-61803 l^8 r^2 R^8-579690 l^6 r^4 R^8+2759274 l^4 r^6 R^8+1106091 l^2 r^8 R^8-3994623 r^{10} R^8-24300 l^8 r R^9-98064 l^6 r^3 R^9+2320056 l^4 r^5 R^9+427248 l^2 r^7 R^9-6239980 r^9 R^9-1458 l^8 R^{10}+50544 l^6 r^2 R^{10}+1226340 l^4 r^4 R^{10}-535248 l^2 r^6 R^{10}-7319826 r^8 R^{10}+23328 l^6 r R^{11}+349920 l^4 r^3 R^{11}-982368 l^2 r^5 R^{11}-6330528 r^7 R^{11}+729 l^6 R^{12}+24057 l^4 r^2 R^{12}-723897 l^2 r^4 R^{12}-3907737 r^6 R^{12}-8748 l^4 r R^{13}-274104 l^2 r^3 R^{13}-1626156 r^5 R^{13}-43740 l^2 r^2 R^{14}-408240 r^4 R^{14}-46656 r^3 R^{15}\right) \Big/ \left(\left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-3 l^2 R^2+19 r^2 R^2+12 r R^3\right)^2 \left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-12 l^2 R^2+28 r^2 R^2+48 r R^3+27 R^4\right)^2\right)\}$$

{X50, X(74)-CEVA CONJUGATE OF X(184), X95, CEVAPOINT OF CENTROID AND CIRCUMCENTER,

$$\left(l^{18}+15 l^{16} r^2-68 l^{14} r^4-284 l^{12} r^6-202 l^{10} r^8+202 l^8 r^{10}+284 l^6 r^{12}+68 l^4 r^{14}-15 l^2 r^{16}-r^{18}-36 l^{16} r R-384 l^{14} r^3 R+1744 l^{12} r^5 R+1664 l^{10} r^7 R-856 l^8 r^9 R+1664 l^6 r^{11} R+1744 l^4 r^{13} R-384 l^2 r^{15} R-36 r^{17} R-14 l^{16} R^2+296 l^{14} r^2 R^2+4808 l^{12} r^4 R^2-16680 l^{10} r^6 R^2+11852 l^8 r^8 R^2-10024 l^6 r^{10} R^2+18760 l^4 r^{12} R^2-4312 l^2 r^{14} R^2-590 r^{16} R^2+448 l^{14} r R^3+896 l^{12} r^3 R^3-40192 l^{10} r^5 R^3+101696 l^8 r^7 R^3-116800 l^6 r^9 R^3+112128 l^4 r^{11} R^3-27776 l^2 r^{13} R^3-5824 r^{15} R^3+73 l^{14} R^4-4027 l^{12} r^2 R^4-28263 l^{10} r^4 R^4+224285 l^8 r^6 R^4-427677 l^6 r^8 R^4+413287 l^4 r^{10} R^4-112453 l^2 r^{12} R^4-38601 r^{14} R^4-2044 l^{12} r R^5+7320 l^{10} r^3 R^5+213564 l^8 r^5 R^5-799920 l^6 r^7 R^5+984636 l^4 r^9 R^5-293736 l^2 r^{11} R^5-181244 r^{13} R^5-168 l^{12} R^6+15252 l^{10} r^2 R^6+82408 l^8 r^4 R^6-863304 l^6 r^6 R^6+1558232 l^4 r^8 R^6-485292 l^2 r^{10} R^6-619640 r^{12} R^6+4032 l^{10} r R^7-19136 l^8 r^3 R^7-571072 l^6 r^5 R^7+1697600 l^4 r^7 R^7-467712 l^2 r^9 R^7-1560192 r^{11} R^7+144 l^{10} R^8-21168 l^8 r^2 R^8-205888 l^6 r^4 R^8+1348032 l^4 r^6 R^8-215120 l^2 r^8 R^8-2890000 r^{10} R^8-2880 l^8 r R^9-11904 l^6 r^3 R^9+780672 l^4 r^5 R^9-62080 l^2 r^7 R^9-3884864 r^9 R^9+7488 l^6 r^2 R^{10}+270720 l^4 r^4 R^{10}-149696 l^2 r^6 R^{10}-3678720 r^8 R^{10}+32256 l^4 r^3 R^{11}-179712 l^2 r^5 R^{11}-2320384 r^7 R^{11}-64512 l^2 r^4 R^{12}-872448 r^6 R^{12}-147456 r^5 R^{13}\right) \Big/ \left(\left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-3 l^2 R^2+19 r^2 R^2+12 r R^3\right)^2 \left(l^4+18 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-4 l^2 R^2+20 r^2 R^2+16 r R^3\right)^2\right)\}$$

{X50, X(74)-CEVA CONJUGATE OF X(184), X96, ISOGONAL CONJUGATE OF X(52),

$$-\left(\left(l^{18}-17 l^{16} r^2+28 l^{14} r^4+196 l^{12} r^6+150 l^{10} r^8-150 l^8 r^{10}-196 l^6 r^{12}-28 l^4 r^{14}+17 l^2 r^{16}-r^{18}-36 l^{16} r R+512 l^{14} r^3 R-1072 l^{12} r^5 R-1280 l^{10} r^7 R+680 l^8 r^9 R-1280 l^6 r^{11} R-1072 l^4 r^{13} R+512 l^2 r^{15} R-36 r^{17} R-18 l^{16} R^2+864 l^{14} r^2 R^2-7320 l^{12} r^4 R^2+14112 l^{10} r^6 R^2-10732 l^8 r^8 R^2+8992 l^6 r^{10} R^2-15896 l^4 r^{12} R^2+7008 l^2 r^{14} R^2-594 r^{16} R^2+576 l^{14} r R^3-12864 l^{12} r^3 R^3+67264 l^{10} r^5 R^3-118976 l^8 r^7 R^3+132544 l^6 r^9 R^3-128448 l^4 r^{11} R^3+57664 l^2 r^{13} R^3-5952 r^{15} R^3+137 l^{14} R^4-10091 l^{12} r^2 R^4+119945 l^{10} r^4 R^4-419715 l^8 r^6 R^4+657667 l^6 r^8 R^4-645897 l^4 r^{10} R^4+317931 l^2 r^{12} R^4-40457 r^{14} R^4-3836 l^{12} r R^5+108888 l^{10} r^3 R^5-737220 l^8 r^5 R^5+1796048 l^6 r^7 R^5-2155460 l^4 r^9 R^5+1239384 l^2 r^{11} R^5-197372 r^{13} R^5-572 l^{12} R^6+53668 l^{10} r^2 R^6-741668 l^8 r^4 R^6+3013720 l^6 r^6 R^6-4930612 l^4 r^8 R^6+3513444 l^2 r^{10} R^6-713228 r^{12} R^6+13728 l^{10} r R^7-442784 l^8 r^3 R^7+3223680 l^6 r^5 R^7-7837696 l^4 r^7 R^7+7338976 l^2 r^9 R^7-1942624 r^{11} R^7+1416 l^{10} R^8-153768 l^8 r^2 R^8+2215312 l^6 r^4 R^8-8662672 l^4 r^6 R^8+11327208 l^2 r^8 R^8-4020424 r^{10} R^8-28320 l^8 r R^9+958336 l^6 r^3 R^9-6585280 l^4 r^5 R^9+12843904 l^2 r^7 R^9-6327968 r^9 R^9-2080 l^8 R^{10}+246688 l^6 r^2 R^{10}-3361152 l^4 r^4 R^{10}+10548640 l^2 r^6 R^{10}-7532832 r^8 R^{10}+33280 l^6 r R^{11}-1100544 l^4 r^3 R^{11}+6123264 l^2 r^5 R^{11}-6698496 r^7 R^{11}+1680 l^6 R^{12}-212208 l^4 r^2 R^{12}+2413296 l^2 r^4 R^{12}-4356752 r^6 R^{12}-20160 l^4 r R^{13}+602752 l^2 r^3 R^{13}-2002624 r^5 R^{13}-576 l^4 R^{14}+83520 l^2 r^2 R^{14}-613696 r^4 R^{14}+4608 l^2 r R^{15}-112128 r^3 R^{15}-9216 r^2 R^{16}\right) \Big/ \left(\left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-3 l^2 R^2+19 r^2 R^2+12 r R^3\right)^2 \left(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2-4 R^4\right)^2\right)\right)\}$$

{X50, X(74)-CEVA CONJUGATE OF X(184), X97, ISOGONAL CONJUGATE OF X(53),

$$\left(R^4 \left(l^{14}+13 l^{12} r^2-159 l^{10} r^4+341 l^8 r^6-341 l^6 r^8+159 l^4 r^{10}-13 l^2 r^{12}-r^{14}-28 l^{12} r R-232 l^{10} r^3 R+2140 l^8 r^5 R-3504 l^6 r^7 R+2140 l^4 r^9 R-232 l^2 r^{11} R-28 r^{13} R-14 l^{12} R^2+72 l^{10} r^2 R^2+3406 l^8 r^4 R^2-13232 l^6 r^6 R^2+11966 l^4 r^8 R^2-1784 l^2 r^{10} R^2-350 r^{12} R^2+336 l^{10} r R^3+1648 l^8 r^3 R^3-22816 l^6 r^5 R^3+36256 l^4 r^7 R^3-7728 l^2 r^9 R^3-2576 r^{11} R^3+73 l^{10} R^4-1129 l^8 r^2 R^4-19826 l^6 r^4 R^4+65458 l^4 r^6 R^4-20919 l^2 r^8 R^4-12393 r^{10} R^4-1460 l^8 r R^5-7392 l^6 r^3 R^5+74408 l^4 r^5 R^5-38112 l^2 r^7 R^5-40884 r^9 R^5-168 l^8 R^6+2260 l^6 r^2 R^6+56136 l^4 r^4 R^6-51884 l^2 r^6 R^6-94280 r^8 R^6+2688 l^6 r R^7+25952 l^4 r^3 R^7-59360 l^2 r^5 R^7-151808 r^7 R^7+144 l^6 R^8+3312 l^4 r^2 R^8-55216 l^2 r^4 R^8-167056 r^6 R^8-1728 l^4 r R^9-33024 l^2 r^3 R^9-119488 r^5 R^9-8640 l^2 r^2 R^{10}-49920 r^4 R^{10}-9216 r^3 R^{11}\right)\right) \Big/ \left(\left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-3 l^2 R^2+19 r^2 R^2+12 r R^3\right)^2 \left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-7 l^2 R^2+23 r^2 R^2+28 r R^3+12 R^4\right)^2\right)\}$$

$$\{X50,\ X(74)\text{-CEVA CONJUGATE OF }X(184),\ X98,\ \text{TarryPoint},$$
$$-\Big(\big(l^{14}-3l^{12}r^2-15l^{10}r^4-11l^8r^6+11l^6r^8+15l^4r^{10}+3l^2r^{12}-r^{14}-28l^{12}rR+88l^{10}r^3R+92l^8r^5R-48l^6r^7R+92l^4r^9R+88l^2r^{11}R-28r^{13}R-10l^{12}R^2+340l^{10}r^2R^2-934l^8r^4R^2+856l^6r^6R^2-566l^4r^8R^2+1044l^2r^{10}R^2-346r^{12}R^2+240l^{10}rR^3-2544l^8r^3R^3+5856l^6r^5R^3-6752l^4r^7R^3+6704l^2r^9R^3-2480r^{11}R^3+33l^{10}R^4-2325l^8r^2R^4+13226l^6r^4R^4-24938l^4r^6R^4+25909l^2r^8R^4-11393r^{10}R^4-660l^8rR^5+12560l^6r^3R^5-45496l^4r^5R^5+62736l^2r^7R^5-34964r^9R^5-36l^8R^6+5100l^6r^2R^6-43584l^4r^4R^6+95276l^2r^6R^6-72388r^8R^6+576l^6rR^7-20256l^4r^3R^7+87456l^2r^5R^7-99520r^7R^7-3456l^4r^2R^8+43968l^2r^4R^8-86656r^6R^8+9216l^2r^3R^9-43008r^5R^9-9216r^4R^{10}\big)\Big/\Big(\big(l^4-14l^2r^2+r^4-8l^2rR+8r^3R+16r^2R^2\big)\big(l^4-6l^2r^2+r^4-8l^2rR+8r^3R-3l^2R^2+19r^2R^2+12rR^3\big)^2\Big)\Big)\}$$

$$\{X50,\ X(74)\text{-CEVA CONJUGATE OF }X(184),\ X99,\ \text{STEINER POINT},$$
$$\big(l^{14}-3l^{12}r^2-15l^{10}r^4-11l^8r^6+11l^6r^8+15l^4r^{10}+3l^2r^{12}-r^{14}-28l^{12}rR+88l^{10}r^3R+92l^8r^5R-48l^6r^7R+92l^4r^9R+88l^2r^{11}R-28r^{13}R-6l^{12}R^2+228l^{10}r^2R^2-10l^8r^4R^2-1160l^6r^6R^2+358l^4r^8R^2+932l^2r^{10}R^2-342r^{12}R^2+144l^{10}rR^3-656l^8r^3R^3-3424l^6r^5R^3+2528l^4r^7R^3+4816l^2r^9R^3-2384r^{11}R^3+9l^{10}R^4-765l^8r^2R^4-3046l^6r^4R^4+9894l^4r^6R^4+13021l^2r^8R^4-10409r^{10}R^4-180l^8rR^5-240l^6r^3R^5+16008l^4r^5R^5+17168l^2r^7R^5-29364r^9R^5+468l^6r^2R^6+10440l^4r^4R^6+6676l^2r^6R^6-53152r^8R^6+2016l^4r^3R^7-5472l^2r^5R^7-59008r^7R^7-4032l^2r^4R^8-36096r^6R^8-9216r^5R^9\big)\Big/\Big(\big(l^4-14l^2r^2+r^4-8l^2rR+8r^3R+16r^2R^2\big)\big(l^4-6l^2r^2+r^4-8l^2rR+8r^3R-3l^2R^2+19r^2R^2+12rR^3\big)^2\Big)\}$$

$$\{X50,\ X(74)\text{-CEVA CONJUGATE OF }X(184),\ X100,\ \text{ANTICOMPLEMENT OF FEUERBACH POINT},$$
$$\Big(R\big(-l^{10}+5l^8r^2+6l^6r^4-6l^4r^6-5l^2r^8+r^{10}+28l^8rR-160l^6r^3R+192l^4r^5R-112l^2r^7R+20r^9R+6l^8R^2-256l^6r^2R^2+916l^4r^4R^2-768l^2r^6R^2+166r^8R^2-144l^6rR^3+1456l^4r^3R^3-2336l^2r^5R^3+736r^7R^3-9l^6R^4+879l^4r^2R^4-3439l^2r^4R^4+1865r^6R^4+180l^4rR^5-2376l^2r^3R^5+2668r^5R^5-612l^2r^2R^6+1968r^4R^6+576r^3R^7\big)\Big)\Big/\Big((2r-R)\big(l^4-6l^2r^2+r^4-8l^2rR+8r^3R-3l^2R^2+19r^2R^2+12rR^3\big)^2\Big)\}$$

$$\{X51,\ \text{CENTROID OF ORTHIC TRIANGLE},\ X52,\ \text{ORTHOCENTER OF ORTHIC TRIANGLE},$$
$$\frac{2l^4-12l^2r^2+2r^4-16l^2rR+16r^3R-8l^2R^2+40r^2R^2+32rR^3+9R^4}{9R^2}\}$$

$$\{X51,\ \text{CENTROID OF ORTHIC TRIANGLE},\ X53,\ \text{SYMMEDIAN POINT OF ORTHIC TRIANGLE},$$
$$-\Big(\big(l^{12}+30l^{10}r^2-273l^8r^4+420l^6r^6-273l^4r^8+30l^2r^{10}+r^{12}-24l^{10}rR-456l^8r^3R+2640l^6r^5R-2640l^4r^7R+456l^2r^9R+24r^{11}R-12l^{10}R^2-180l^8r^2R^2+5160l^6r^4R^2-10440l^4r^6R^2+2916l^2r^8R^2+252r^{10}R^2+240l^8rR^3+3520l^6r^3R^3-20832l^4r^5R^3+10176l^2r^7R^3+1520r^9R^3+48l^8R^4+432l^6r^2R^4-21312l^4r^4R^4+21168l^2r^6R^4+5808r^8R^4-768l^6rR^5-10368l^4r^3R^5+27264l^2r^5R^5+14592r^7R^5-64l^6R^6-1728l^4r^2R^6+22464l^2r^4R^6+24128r^6R^6+768l^4rR^7+12288l^2r^3R^7+25344r^5R^7+3840l^2r^2R^8+15360r^4R^8+4096r^3R^9\big)\Big/\Big(36R^2\big(l^4-6l^2r^2+r^4-8l^2rR+8r^3R-4l^2R^2+20r^2R^2+16rR^3\big)^2\Big)\Big)\}$$

$$\{X51,\ \text{CENTROID OF ORTHIC TRIANGLE},\ X54,\ \text{KosnitaPoint},\ \frac{1}{36R^2\left(-2l^2+2r^2+8rR+5R^2\right)^2}$$
$$\big(-4l^8-64l^6r^2+136l^4r^4-64l^2r^6-4r^8+64l^6rR+448l^4r^3R-448l^2r^5R-64r^7R+24l^6R^2+280l^4r^2R^2-1176l^2r^4R^2-408r^6R^2-288l^4rR^3-1344l^2r^3R^3-1312r^5R^3-27l^4R^4-422l^2r^2R^4-2203r^4R^4+216l^2rR^5-1752r^3R^5-56l^2R^6-376r^2R^6+224rR^7+144R^8\big)\}$$

$$\{X51,\ \text{CENTROID OF ORTHIC TRIANGLE},\ X55,\ \text{INSIMILICENTER(CIRCUMCIRCLE, INCIRCLE)},$$
$$-\frac{1}{36R^2(r+R)^2}\big(l^4r^2+18l^2r^4+r^6+2l^4rR+28l^2r^3R+10r^5R+l^4R^2-14l^2r^2R^2+25r^4R^2-28l^2rR^3-20r^3R^3-4l^2R^4-80r^2R^4+64rR^5\big)\}$$

$$\left\{\text{X51, CENTROID OF ORTHIC TRIANGLE, X56, EXSIMILICENTER(CIRCUMCIRCLE, INCIRCLE)},\right.$$
$$-\frac{1}{36\,(r-R)^2\,R^2}\left(l^4 r^2+18\,l^2 r^4+r^6-2\,l^4 r R-44\,l^2 r^3 R+6\,r^5 R+\right.$$
$$\left.\left.l^4 R^2+42\,l^2 r^2 R^2+17\,r^4 R^2-12\,l^2 r R^3+44\,r^3 R^3-4\,l^2 R^4-96\,r^2 R^4+64\,r R^5\right)\right\}$$

$$\left\{\text{X51, CENTROID OF ORTHIC TRIANGLE, X57, ISOGONAL CONJUGATE OF X(9)},\right.$$
$$-\frac{1}{36\,(r-2\,R)^2\,R^2}\left(l^4 r^2+18\,l^2 r^4+r^6-4\,l^4 r R-68\,l^2 r^3 R+16\,r^5 R+4\,l^4 R^2+\right.$$
$$\left.\left.100\,l^2 r^2 R^2+64\,r^4 R^2-64\,l^2 r R^3+16\,r^3 R^3-16\,l^2 R^4-128\,r^2 R^4+256\,r R^5\right)\right\}$$

$$\left\{\text{X51, CENTROID OF ORTHIC TRIANGLE, X58, ISOGONAL CONJUGATE OF X(10)},\ -\frac{1}{36\,R^2\left(-l^2+3\,r^2+4\,r R\right)^2}\right.$$
$$\left(l^8+12\,l^6 r^2-98\,l^4 r^4+156\,l^2 r^6+9\,r^8-16\,l^6 r R-64\,l^4 r^3 R+304\,l^2 r^5 R+96\,r^7 R-4\,l^6 R^2-68\,l^4 r^2 R^2+\right.$$
$$\left.\left.452\,l^2 r^4 R^2+388\,r^6 R^2+48\,l^4 r R^3+288\,l^2 r^3 R^3+752\,r^5 R^3+240\,l^2 r^2 R^4+560\,r^4 R^4+256\,r^3 R^5\right)\right\}$$

$$\left\{\text{X51, CENTROID OF ORTHIC TRIANGLE, X59,}\right.$$
$$\text{ISOGONAL CONJUGATE OF X(11)},\ -\frac{1}{36\,(2\,r-R)\,R^2\left(-l^2+r^2+5\,r R+4\,R^2\right)^2}$$
$$\left(2\,l^8 r+32\,l^6 r^3-68\,l^4 r^5+32\,l^2 r^7+2\,r^9-l^8 R-52\,l^6 r^2 R-258\,l^4 r^4 R+276\,l^2 r^6 R+\right.$$
$$35\,r^8 R-46\,l^4 r^3 R^2+804\,l^2 r^5 R^2+242\,r^7 R^2+12\,l^6 R^3+437\,l^4 r^2 R^3+662\,l^2 r^4 R^3+$$
$$829\,r^6 R^3-160\,l^4 r R^4-800\,l^2 r^3 R^4+1456\,r^5 R^4-48\,l^4 R^5-1008\,l^2 r^2 R^5+$$
$$\left.\left.1360\,r^4 R^5+768\,l^2 r R^6+1088\,r^3 R^6+64\,l^2 R^7+512\,r^2 R^7-1024\,r R^8\right)\right\}$$

$$\left\{\text{X51, CENTROID OF ORTHIC TRIANGLE, X60,}\right.$$
$$\text{ISOGONAL CONJUGATE OF X(12)},\ -\frac{1}{36\,R^2\left(-2\,l^2 r+2\,r^3-l^2 R+7\,r^2 R+7\,r R^2\right)^2}$$
$$\left(4\,l^8 r^2+64\,l^6 r^4-136\,l^4 r^6+64\,l^2 r^8+4\,r^{10}+4\,l^8 r R+8\,l^6 r^3 R-448\,l^4 r^5 R+376\,l^2 r^7 R+\right.$$
$$60\,r^9 R+l^8 R^2-60\,l^6 r^2 R^2-650\,l^4 r^4 R^2+1060\,l^2 r^6 R^2+369\,r^8 R^2-32\,l^6 r R^3-$$
$$240\,l^4 r^3 R^3+1760\,l^2 r^5 R^3+1200\,r^7 R^3-4\,l^6 R^4+83\,l^4 r^2 R^4+1890\,l^2 r^4 R^4+$$
$$\left.\left.2203\,r^6 R^4+48\,l^4 r R^5+1072\,l^2 r^3 R^5+2288\,r^5 R^5+240\,l^2 r^2 R^6+1216\,r^4 R^6+256\,r^3 R^7\right)\right\}$$

$$\left\{\text{X51, CENTROID OF ORTHIC TRIANGLE, X61,}\right.$$
$$\text{ISOGONAL CONJUGATE OF X(17)},\ -\frac{1}{12\,R^2\left(3\,l^2+2\sqrt{3}\,l\,r-3\,r^2-12\,r R\right)^2}$$
$$\left(3\,l^8+4\sqrt{3}\,l^7 r+52\,l^6 r^2+68\sqrt{3}\,l^5 r^3-30\,l^4 r^4-68\sqrt{3}\,l^3 r^5+52\,l^2 r^6-4\sqrt{3}\,l\,r^7+\right.$$
$$3\,r^8-48\,l^6 r R-48\sqrt{3}\,l^5 r^2 R-368\,l^4 r^3 R-224\sqrt{3}\,l^3 r^4 R+368\,l^2 r^5 R-48\sqrt{3}\,l\,r^6 R+$$
$$48\,r^7 R-12\,l^6 R^2-16\sqrt{3}\,l^5 r R^2-268\,l^4 r^2 R^2-160\sqrt{3}\,l^3 r^3 R^2+1004\,l^2 r^4 R^2-$$
$$208\sqrt{3}\,l\,r^5 R^2+300\,r^6 R^2+144\,l^4 r R^3+128\sqrt{3}\,l^3 r^2 R^3+1312\,l^2 r^3 R^3-$$
$$\left.\left.384\sqrt{3}\,l\,r^4 R^3+912\,r^5 R^3+576\,l^2 r^2 R^4-256\sqrt{3}\,l\,r^3 R^4+1344\,r^4 R^4+768\,r^3 R^5\right)\right\}$$

$$\left\{\text{X51, CENTROID OF ORTHIC TRIANGLE, X62,}\right.$$
$$\text{ISOGONAL CONJUGATE OF X(18)},\ -\frac{1}{12\,R^2\left(3\,l^2-2\sqrt{3}\,l\,r-3\,r^2-12\,r R\right)^2}$$
$$\left(3\,l^8-4\sqrt{3}\,l^7 r+52\,l^6 r^2-68\sqrt{3}\,l^5 r^3-30\,l^4 r^4+68\sqrt{3}\,l^3 r^5+52\,l^2 r^6+4\sqrt{3}\,l\,r^7+\right.$$
$$3\,r^8-48\,l^6 r R+48\sqrt{3}\,l^5 r^2 R-368\,l^4 r^3 R+224\sqrt{3}\,l^3 r^4 R+368\,l^2 r^5 R+48\sqrt{3}\,l\,r^6 R+$$
$$48\,r^7 R-12\,l^6 R^2+16\sqrt{3}\,l^5 r R^2-268\,l^4 r^2 R^2+160\sqrt{3}\,l^3 r^3 R^2+1004\,l^2 r^4 R^2+$$
$$208\sqrt{3}\,l\,r^5 R^2+300\,r^6 R^2+144\,l^4 r R^3-128\sqrt{3}\,l^3 r^2 R^3+1312\,l^2 r^3 R^3+$$
$$\left.\left.384\sqrt{3}\,l\,r^4 R^3+912\,r^5 R^3+576\,l^2 r^2 R^4+256\sqrt{3}\,l\,r^3 R^4+1344\,r^4 R^4+768\,r^3 R^5\right)\right\}$$

$$\left\{X51,\ \text{CENTROID OF ORTHIC TRIANGLE},\ X63,\ \text{ISOGONAL CONJUGATE OF } X(19),\ -\frac{1}{36 R^2 (r+R)^2}\left(l^4 r^2+18 l^2 r^4+r^6-4 l^4 r R+28 l^2 r^3 R+16 r^5 R-5 l^4 R^2+70 l^2 r^2 R^2+91 r^4 R^2+8 l^2 r R^3+232 r^3 R^3-16 l^2 R^4+304 r^2 R^4+256 r R^5\right)\right\}$$

$$\left\{X51,\ \text{CENTROID OF ORTHIC TRIANGLE},\ X64,\ \text{ISOGONAL CONJUGATE OF } X(20),\ \frac{1}{36 R^2 (-l+r+2 R)^2 (l+r+2 R)^2}\left(-l^8-16 l^6 r^2+34 l^4 r^4-16 l^2 r^6-r^8+16 l^6 r R+112 l^4 r^3 R-112 l^2 r^5 R-16 r^7 R+36 l^6 R^2-140 l^4 r^2 R^2-84 l^2 r^4 R^2-132 r^6 R^2-432 l^4 r R^3+864 l^2 r^3 R^3-688 r^5 R^3+192 l^4 R^4+1552 l^2 r^2 R^4-1792 r^4 R^4-1536 l^2 r R^5-768 r^3 R^5-3584 l^2 R^6+6656 r^2 R^6+14336 r R^7+9216 R^8\right)\right\}$$

$$\left\{X51,\ \text{CENTROID OF ORTHIC TRIANGLE},\ X65,\ \text{ORTHOCENTER OF THE INTOUCH TRIANGLE},\ -\frac{l^4+6 l^2 r^2-11 r^4-20 l^2 r R-4 r^3 R-4 l^2 R^2+32 r^2 R^2+64 r R^3}{36 R^2}\right\}$$

$$\left\{X51,\ \text{CENTROID OF ORTHIC TRIANGLE},\ X66,\ \text{ISOGONAL CONJUGATE OF } X(22),\ -\frac{1}{36 R^2 (-l+r+2 R)^2 (l+r+2 R)^2 \left(-l^2+r^2+4 r R\right)^2}\left(-5 l^{12}+26 l^{10} r^2-59 l^8 r^4+76 l^6 r^6-59 l^4 r^8+26 l^2 r^{10}-5 r^{12}+120 l^{10} r R-536 l^8 r^3 R+1008 l^6 r^5 R-1008 l^4 r^7 R+536 l^2 r^9 R-120 r^{11} R+48 l^{10} R^2-1408 l^8 r^2 R^2+4800 l^6 r^4 R^2-6816 l^4 r^6 R^2+4624 l^2 r^8 R^2-1248 r^{10} R^2-960 l^8 r R^3+9856 l^6 r^3 R^3-23168 l^4 r^5 R^3+21632 l^2 r^7 R^3-7360 r^9 R^3-108 l^8 R^4+8096 l^6 r^2 R^4-41320 l^4 r^4 R^4+59296 l^2 r^6 R^4-26988 r^8 R^4+1728 l^6 r R^5-35776 l^4 r^3 R^5+95168 l^2 r^5 R^5-63168 r^7 R^5-16 l^6 R^6-11088 l^4 r^2 R^6+82640 l^2 r^4 R^6-92272 r^6 R^6+192 l^4 r R^7+30336 l^2 r^3 R^7-76608 r^5 R^7+960 l^2 r^2 R^8-26880 r^4 R^8+1024 r^3 R^9\right)\right\}$$

$$\left\{X51,\ \text{CENTROID OF ORTHIC TRIANGLE},\ X67,\ \text{ISOGONAL CONJUGATE OF } X(23),\ -\frac{1}{36 R^2 \left(-l^2+r^2+4 r R\right)^2 \left(-2 l^2+2 r^2+8 r R+9 R^2\right)}\left(10 l^{10}-42 l^8 r^2+76 l^6 r^4-76 l^4 r^6+42 l^2 r^8-10 r^{10}-200 l^8 r R+704 l^6 r^3 R-1008 l^4 r^5 R+704 l^2 r^7 R-200 r^9 R-31 l^8 R^2+1616 l^6 r^2 R^2-4386 l^4 r^4 R^2+4432 l^2 r^6 R^2-1631 r^8 R^2+496 l^6 r R^3-7024 l^4 r^3 R^3+12912 l^2 r^5 R^3-6896 r^7 R^3-36 l^6 R^4-3732 l^4 r^2 R^4+17780 l^2 r^4 R^4-15740 r^6 R^4+432 l^4 r R^5+10528 l^2 r^3 R^5-17744 r^5 R^5+2160 l^2 r^2 R^6-6208 r^4 R^6+2304 r^3 R^7\right)\right\}$$

$$\left\{X51,\ \text{CENTROID OF ORTHIC TRIANGLE},\ X68,\ \text{PRASOLOV POINT},\ \frac{1}{36 R^2 (-l+r+2 R)^2 (l+r+2 R)^2}\left(5 l^8-16 l^6 r^2+22 l^4 r^4-16 l^2 r^6+5 r^8-80 l^6 r R+208 l^4 r^3 R-208 l^2 r^5 R+80 r^7 R-48 l^6 R^2+592 l^4 r^2 R^2-1008 l^2 r^4 R^2+528 r^6 R^2+576 l^4 r R^3-2304 l^2 r^3 R^3+1856 r^5 R^3+180 l^4 R^4-2744 l^2 r^2 R^4+3764 r^4 R^4-1440 l^2 r R^5+4512 r^3 R^5-272 l^2 R^6+3152 r^2 R^6+1088 r R^7+144 R^8\right)\right\}$$

$$\left\{X51,\ \text{CENTROID OF ORTHIC TRIANGLE},\ X69,\ \text{SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},\ -\frac{1}{36 R^2 \left(-l^2+r^2+4 r R\right)^2}\left(-5 l^8+16 l^6 r^2-22 l^4 r^4+16 l^2 r^6-5 r^8+80 l^6 r R-208 l^4 r^3 R+208 l^2 r^5 R-80 r^7 R-16 l^6 R^2-336 l^4 r^2 R^2+752 l^2 r^4 R^2-464 r^6 R^2+192 l^4 r R^3+512 l^2 r^3 R^3-1088 r^5 R^3+960 l^2 r^2 R^4-512 r^4 R^4+1024 r^3 R^5\right)\right\}$$

$$\{X51,\ \text{CENTROID OF ORTHIC TRIANGLE},\ X70,\ \text{ISOGONAL CONJUGATE OF } X(26),$$
$$\left(5 l^{12} - 26 l^{10} r^2 + 59 l^8 r^4 - 76 l^6 r^6 + 59 l^4 r^8 - 26 l^2 r^{10} + 5 r^{12} - 120 l^{10} r R + 536 l^8 r^3 R - 1008 l^6 r^5 R + 1008 l^4 r^7 R - 536 l^2 r^9 R + 120 r^{11} R - 68 l^{10} R^2 + 1492 l^8 r^2 R^2 - 4952 l^6 r^4 R^2 + 6968 l^4 r^6 R^2 - 4708 l^2 r^8 R^2 + 1268 r^{10} R^2 + 1360 l^8 r R^3 - 11264 l^6 r^3 R^3 + 25184 l^4 r^5 R^3 - 23040 l^2 r^7 R^3 + 7760 r^9 R^3 + 346 l^8 R^4 - 12160 l^6 r^2 R^4 + 51404 l^4 r^4 R^4 - 68992 l^2 r^6 R^4 + 30426 r^8 R^4 - 5536 l^6 r R^5 + 59296 l^4 r^3 R^5 - 130464 l^2 r^5 R^5 + 79776 r^7 R^5 - 844 l^6 R^6 + 36276 l^4 r^2 R^6 - 154868 l^2 r^4 R^6 + 141580 r^6 R^6 + 10128 l^4 r R^7 - 110944 l^2 r^3 R^7 + 168336 r^5 R^7 + 1061 l^4 R^8 - 44262 l^2 r^2 R^8 + 130149 r^4 R^8 - 8488 l^2 r R^9 + 62504 r^3 R^9 - 632 l^2 R^{10} + 17608 r^2 R^{10} + 2528 r R^{11} + 144 R^{12}\right) \Big/ \left(36 R^2 \left(l^4 - 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 6 l^2 R^2 + 22 r^2 R^2 + 24 r R^3 + 7 R^4\right)^2\right)\}$$

$$\{X51,\ \text{CENTROID OF ORTHIC TRIANGLE},\ X71,\ \text{ISOGONAL CONJUGATE OF } X(27),$$
$$-\frac{1}{36 R^2 \left(l^2 + r^2 + 6 r R + 8 R^2\right)^2}\left(l^8 + 20 l^6 r^2 + 38 l^4 r^4 + 20 l^2 r^6 + r^8 + 4 l^6 r R + 220 l^4 r^3 R + 236 l^2 r^5 R + 20 r^7 R - 12 l^6 R^2 + 400 l^4 r^2 R^2 + 1156 l^2 r^4 R^2 + 168 r^6 R^2 + 32 l^4 r R^3 + 2912 l^2 r^3 R^3 + 768 r^5 R^3 - 528 l^4 R^4 + 3712 l^2 r^2 R^4 + 2064 r^4 R^4 + 1856 l^2 r R^5 + 3264 r^3 R^5 - 64 l^2 R^6 + 2816 r^2 R^6 + 1024 r R^7\right)\}$$

$$\{X51,\ \text{CENTROID OF ORTHIC TRIANGLE},\ X72,\ \text{ISOGONAL CONJUGATE OF } X(28),$$
$$-\frac{-5 l^4 + 18 l^2 r^2 + 7 r^4 + 28 l^2 r R + 92 r^3 R - 16 l^2 R^2 + 284 r^2 R^2 + 256 r R^3}{36 R^2}\}$$

$$\{X51,\ \text{CENTROID OF ORTHIC TRIANGLE},\ X73,\ \text{CROSSPOINT OF INCENTER AND CIRCUMCENTER},$$
$$-\left(\left(l^8 + 20 l^6 r^2 + 38 l^4 r^4 + 20 l^2 r^6 + r^8 - 12 l^6 r R - 84 l^4 r^3 R - 68 l^2 r^5 R + 4 r^7 R - 12 l^6 R^2 - 272 l^4 r^2 R^2 - 188 l^2 r^4 R^2 + 8 r^6 R^2 + 160 l^4 r R^3 + 800 l^2 r^3 R^3 + 64 r^5 R^3 + 48 l^4 R^4 + 1152 l^2 r^2 R^4 - 432 r^4 R^4 - 704 l^2 r R^5 - 2112 r^3 R^5 - 64 l^2 R^6 - 1536 r^2 R^6 + 1024 r R^7\right) \Big/ \left(36 R^2 \left(-l^2 - r^2 + 2 r R + 4 R^2\right)^2\right)\right)\}$$

$$\{X51,\ \text{CENTROID OF ORTHIC TRIANGLE},\ X74,\ \text{ISOGONAL CONJUGATE OF EULER INFINITY POINT},$$
$$\left(2 l^6 + 34 l^4 r^2 - 34 l^2 r^4 - 2 r^6 - 24 l^4 r R - 112 l^2 r^3 R - 24 r^5 R - 35 l^4 R^2 + 106 l^2 r^2 R^2 - 131 r^4 R^2 + 280 l^2 r R^3 - 408 r^3 R^3 - 216 l^2 R^4 - 344 r^2 R^4 + 864 r R^5 + 1296 R^6\right) \Big/ \left(36 R^2 \left(-2 l^2 + 2 r^2 + 8 r R + 9 R^2\right)\right)\}$$

$$\{X51,\ \text{CENTROID OF ORTHIC TRIANGLE},\ X75,\ \text{ISOTOMIC CONJUGATE OF INCENTER},\ -\frac{1}{36 R^2 \left(l^2 + r^2 + 4 r R\right)^2}$$
$$\left(-5 l^8 - 4 l^6 r^2 + 2 l^4 r^4 - 4 l^2 r^6 - 5 r^8 + 48 l^6 r R + 144 l^4 r^3 R + 16 l^2 r^5 R - 80 r^7 R - 16 l^6 R^2 + 240 l^4 r^2 R^2 + 48 l^2 r^4 R^2 - 464 r^6 R^2 + 320 l^4 r R^3 - 1024 l^2 r^3 R^3 - 1088 r^5 R^3 - 1088 l^2 r^2 R^4 - 512 r^4 R^4 + 1024 r^3 R^5\right)\}$$

$$\{X51,\ \text{CENTROID OF ORTHIC TRIANGLE},\ X76,$$
$$\text{3rd BROCARD POINT},\ -\frac{1}{36 R^2 \left(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\right)^2}$$
$$\left(-5 l^{12} - 14 l^{10} r^2 - 11 l^8 r^4 - 4 l^6 r^6 - 11 l^4 r^8 - 14 l^2 r^{10} - 5 r^{12} + 120 l^{10} r R + 104 l^8 r^3 R - 16 l^6 r^5 R + 16 l^4 r^7 R - 104 l^2 r^9 R - 120 r^{11} R - 16 l^{10} R^2 - 864 l^8 r^2 R^2 + 928 l^6 r^4 R^2 - 896 l^4 r^6 R^2 + 240 l^2 r^8 R^2 - 1184 r^{10} R^2 + 320 l^8 r R^3 + 2048 l^6 r^3 R^3 - 4992 l^4 r^5 R^3 + 3584 l^2 r^7 R^3 - 6080 r^9 R^3 - 832 l^6 r^2 R^4 - 4992 l^4 r^4 R^4 + 8896 l^2 r^6 R^4 - 16640 r^8 R^4 - 3584 l^4 r^3 R^5 + 7680 l^2 r^5 R^5 - 20480 r^7 R^5 + 7168 l^2 r^4 R^6 + 16384 r^5 R^7\right)\}$$

$$\{X51,\ \text{CENTROID OF ORTHIC TRIANGLE},\ X77,\ \text{ISOGONAL CONJUGATE OF } X(33),$$
$$-\frac{1}{36 R^2 \left(-l^2 + r R + 4 R^2\right)^2}\left(l^8 + 18 l^6 r^2 + l^4 r^4 - 16 l^6 r R - 28 l^4 r^3 R + 4 l^2 r^5 R - 12 l^6 R^2 - 197 l^4 r^2 R^2 + 66 l^2 r^4 R^2 - 5 r^6 R^2 + 192 l^4 r R^3 + 368 l^2 r^3 R^3 - 80 r^5 R^3 + 48 l^4 R^4 + 592 l^2 r^2 R^4 - 464 r^4 R^4 - 768 l^2 r R^5 - 1088 r^3 R^5 - 64 l^2 R^6 - 512 r^2 R^6 + 1024 r R^7\right)\}$$

$$\{X51,\ \text{CENTROID OF ORTHIC TRIANGLE},\ X78,\ \text{ISOGONAL CONJUGATE OF } X(34),$$
$$-\frac{1}{36 (r - R)^2 R^2}\left(l^4 r^2 + 18 l^2 r^4 + r^6 + 4 l^4 r R - 44 l^2 r^3 R - 5 l^4 R^2 - 42 l^2 r^2 R^2 - 37 r^4 R^2 + 48 l^2 r R^3 - 16 r^3 R^3 - 16 l^2 R^4 + 192 r^2 R^4 + 256 r R^5\right)\}$$

$$\left\{\text{X51, CENTROID OF ORTHIC TRIANGLE, X79, ISOGONAL CONJUGATE OF X(35)},\right.$$
$$-\frac{1}{36 R^2 (2 r+3 R)^2}\left(-20 l^4 r^2+24 l^2 r^4-20 r^6-24 l^4 r R+256 l^2 r^3 R-232 r^5 R+9 l^4 R^2+\right.$$
$$\left.\left.578 l^2 r^2 R^2-1015 r^4 R^2-84 l^2 r R^3-1940 r^3 R^3-36 l^2 R^4-1140 r^2 R^4+576 r R^5\right)\right\}$$

$$\left\{\text{X51, CENTROID OF ORTHIC TRIANGLE, X80, REFLECTION OF INCENTER IN FEUERBACH POINT},\right.$$
$$\left.\frac{10 l^4 r-12 l^2 r^3+10 r^5+l^4 R-86 l^2 r^2 R+57 r^4 R-60 l^2 r R^2+196 r^3 R^2-4 l^2 R^3+204 r^2 R^3+64 r R^4}{36 (2 r-R) R^2}\right\}$$

$$\left\{\text{X51, CENTROID OF ORTHIC TRIANGLE, X81},\right.$$
$$\text{CEVAPOINT OF INCENTER AND SYMMEDIAN POINT}, -\frac{1}{36 R^2 \left(-l^2+r^2+r R\right)^2}$$
$$\left(l^8+16 l^6 r^2-34 l^4 r^4+16 l^2 r^6+r^8-16 l^6 r R-16 l^4 r^3 R+16 l^2 r^5 R+16 r^7 R-4 l^6 R^2-93 l^4 r^2 R^2+\right.$$
$$\left.\left.50 l^2 r^4 R^2+91 r^6 R^2+48 l^4 r R^3+56 l^2 r^3 R^3+232 r^5 R^3+240 l^2 r^2 R^4+304 r^4 R^4+256 r^3 R^5\right)\right\}$$

$$\left\{\text{X51, CENTROID OF ORTHIC TRIANGLE, X82},\right.$$
$$\text{ISOGONAL CONJUGATE OF X(38)}, -\frac{1}{36 R^2 \left(l^4-4 l^2 r^2+3 r^4-9 l^2 r R+19 r^3 R+28 r^2 R^2\right)^2}$$
$$\left(l^{12}+10 l^{10} r^2-121 l^8 r^4+364 l^6 r^6-401 l^4 r^8+138 l^2 r^{10}+9 r^{12}-32 l^{10} r R-136 l^8 r^3 R+\right.$$
$$1552 l^6 r^5 R-3104 l^4 r^7 R+1552 l^2 r^9 R+168 r^{11} R-4 l^{10} R^2+291 l^8 r^2 R^2+1252 l^6 r^4 R^2-$$
$$7790 l^4 r^6 R^2+6552 l^2 r^8 R^2+1219 r^{10} R^2+112 l^8 r R^3-896 l^6 r^3 R^3-6880 l^4 r^5 R^3+$$
$$13376 l^2 r^7 R^3+4144 r^9 R^3-944 l^6 r^2 R^4-1104 l^4 r^4 R^4+15376 l^2 r^6 R^4+5680 r^8 R^4+$$
$$\left.\left.3008 l^4 r^3 R^5+9600 l^2 r^5 R^5-1088 r^7 R^5-3136 l^2 r^4 R^6-6656 r^6 R^6+1024 r^5 R^7\right)\right\}$$

$$\left\{\text{X51, CENTROID OF ORTHIC TRIANGLE, X83, CEVAPOINT OF CENTROID AND SYMMEDIAN POINT},\right.$$
$$-\frac{1}{36 R^2 \left(5 l^4-6 l^2 r^2+5 r^4-40 l^2 r R+40 r^3 R+80 r^2 R^2\right)^2}$$
$$\left(-5 l^{12}+306 l^{10} r^2-1035 l^8 r^4+1404 l^6 r^6-1035 l^4 r^8+306 l^2 r^{10}-5 r^{12}+120 l^{10} r R-\right.$$
$$5016 l^8 r^3 R+13296 l^6 r^5 R-13296 l^4 r^7 R+5016 l^2 r^9 R-120 r^{11} R-16 l^{10} R^2-2336 l^8 r^2 R^2+$$
$$35296 l^6 r^4 R^2-61888 l^4 r^6 R^2+32432 l^2 r^8 R^2-1184 r^{10} R^2+320 l^8 r R^3+19712 l^6 r^3 R^3-$$
$$119168 l^4 r^5 R^3+103168 l^2 r^7 R^3-6080 r^9 R^3-832 l^6 r^2 R^4-75648 l^4 r^4 R^4+161472 l^2 r^6 R^4-$$
$$\left.\left.16640 r^8 R^4-3584 l^4 r^3 R^5+101888 l^2 r^5 R^5-20480 r^7 R^5+7168 l^2 r^4 R^6+16384 r^5 R^7\right)\right\}$$

$$\left\{\text{X51, CENTROID OF ORTHIC TRIANGLE, X84},\right.$$
$$\text{ISOGONAL CONJUGATE OF X(40)}, -\frac{1}{36 r^2 R^2}\left(l^4 r^2+18 l^2 r^4+r^6-12 l^4 r R-\right.$$
$$\left.\left.20 l^2 r^3 R+8 r^5 R+116 l^2 r^2 R^2+20 r^4 R^2-96 l^2 r R^3+16 r^3 R^3+144 l^2 R^4-576 R^6\right)\right\}$$

$$\left\{\text{X51, CENTROID OF ORTHIC TRIANGLE, X85, ISOTOMIC CONJUGATE OF X(9)},\right.$$
$$-\frac{1}{36 R^2 \left(l^2+r^2+8 r R+16 R^2\right)^2}\left(-5 l^8-4 l^6 r^2+2 l^4 r^4-4 l^2 r^6-5 r^8+8 l^6 r R+152 l^4 r^3 R+24 l^2 r^5 R-\right.$$
$$120 r^7 R-80 l^6 R^2+736 l^4 r^2 R^2+656 l^2 r^4 R^2-1184 r^6 R^2+1344 l^4 r R^3+2560 l^2 r^3 R^3-6080 r^5 R^3+$$
$$\left.\left.512 l^4 R^4+192 l^2 r^2 R^4-16640 r^4 R^4-8704 l^2 r R^5-20480 r^3 R^5-1024 l^2 R^6+16384 r R^7\right)\right\}$$

$$\left\{\text{X51, CENTROID OF ORTHIC TRIANGLE, X86, CEVAPOINT OF INCENTER AND CENTROID},\right.$$
$$-\frac{1}{36 R^2 \left(5 l^2+r^2+4 r R\right)^2}\left(-5 l^8+364 l^6 r^2+98 l^4 r^4-20 l^2 r^6-5 r^8-64 l^6 r R+\right.$$
$$560 l^4 r^3 R-224 l^2 r^5 R-80 r^7 R-16 l^6 R^2-912 l^4 r^2 R^2-976 l^2 r^4 R^2-464 r^6 R^2+$$
$$\left.\left.192 l^4 r R^3-1792 l^2 r^3 R^3-1088 r^5 R^3+960 l^2 r^2 R^4-512 r^4 R^4+1024 r^3 R^5\right)\right\}$$

$$\Big\{\text{X51, CENTROID OF ORTHIC TRIANGLE, X87, X(2)-CROSS CONJUGATE OF X(1)}, -\frac{1}{36 R^2 \left(l^4+2 l^2 r^2+r^4-20 l^2 r R+12 r^3 R+32 r^2 R^2\right)^2}$$
$$\left(l^{12}+22 l^{10} r^2+79 l^8 r^4+116 l^6 r^6+79 l^4 r^8+22 l^2 r^{10}+r^{12}-36 l^{10} r R-740 l^8 r^3 R-936 l^6 r^5 R+248 l^4 r^7 R+524 l^2 r^9 R+44 r^{11} R-4 l^{10} R^2+284 l^8 r^2 R^2+6936 l^6 r^4 R^2-6792 l^4 r^6 R^2+3628 l^2 r^8 R^2+684 r^{10} R^2+128 l^8 r R^3+1792 l^6 r^3 R^3-12288 l^4 r^5 R^3+7424 l^2 r^7 R^3+4992 r^9 R^3-1152 l^6 r^2 R^4-21376 l^4 r^4 R^4+6784 l^2 r^6 R^4+18816 r^8 R^4+1024 l^4 r^3 R^5+5120 l^2 r^5 R^5+36864 r^7 R^5+15360 l^2 r^4 R^6+35840 r^6 R^6+16384 r^5 R^7\right)\Big\}$$

$$\Big\{\text{X51, CENTROID OF ORTHIC TRIANGLE, X88, ISOGONAL CONJUGATE OF X(44)}, -\frac{1}{36 R^2 \left(-l^2-3 r^2+15 r R\right)^2}\left(l^8+24 l^6 r^2+118 l^4 r^4+168 l^2 r^6+9 r^8-32 l^6 r R-592 l^4 r^3 R-1440 l^2 r^5 R+144 r^7 R-4 l^6 R^2+227 l^4 r^2 R^2+3714 l^2 r^4 R^2+171 r^6 R^2+112 l^4 r R^3+792 l^2 r^3 R^3-3096 r^5 R^3-912 l^2 r^2 R^4-7632 r^4 R^4+2304 r^3 R^5\right)\Big\}$$

$$\Big\{\text{X51, CENTROID OF ORTHIC TRIANGLE, X89, ISOGONAL CONJUGATE OF X(45)}, -\frac{1}{36 R^2 \left(2 l^2-6 r^2+3 r R\right)^2}\left(4 l^8+48 l^6 r^2-392 l^4 r^4+624 l^2 r^6+36 r^8-32 l^6 r R+320 l^4 r^3 R-864 l^2 r^5 R+576 r^7 R-16 l^6 R^2-793 l^4 r^2 R^2+1470 l^2 r^4 R^2+2871 r^6 R^2+64 l^4 r R^3-1944 l^2 r^3 R^3+5112 r^5 R^3+2496 l^2 r^2 R^4+4464 r^4 R^4+9216 r^3 R^5\right)\Big\}$$

$$\Big\{\text{X51, CENTROID OF ORTHIC TRIANGLE, X90, X(3)-CROSS CONJUGATE OF X(1)}, -\frac{1}{36 R^2 \left(-r^2-2 r R+R^2\right)^2}$$
$$\left(l^4 r^4+18 l^2 r^6+r^8-8 l^4 r^3 R+52 l^2 r^5 R+12 r^7 R-22 l^4 r^2 R^2+96 l^2 r^4 R^2+54 r^6 R^2+8 l^4 r R^3+64 l^2 r^3 R^3+120 r^5 R^3+l^4 R^4+42 l^2 r^2 R^4+169 r^4 R^4-52 l^2 r R^5+188 r^3 R^5-4 l^2 R^6+76 r^2 R^6+64 r R^7\right)\Big\}$$

$$\Big\{\text{X51, CENTROID OF ORTHIC TRIANGLE, X91, ISOGONAL CONJUGATE OF X(47)}, -\frac{1}{36 R^2 \left(l^2 r+r^3-l^2 R+3 r^2 R+2 r R^2+2 R^3\right)^2}$$
$$\left(-5 l^8 r^2-4 l^6 r^4+2 l^4 r^6-4 l^2 r^8-5 r^{10}+4 l^8 r R+32 l^6 r^3 R+104 l^4 r^5 R-76 r^9 R+l^8 R^2-44 l^6 r^2 R^2+134 l^4 r^4 R^2-12 l^2 r^6 R^2-447 r^8 R^2-60 l^6 r R^3+444 l^4 r^3 R^3-692 l^2 r^5 R^3-1196 r^7 R^3-8 l^6 R^4+660 l^4 r^2 R^4-2176 l^2 r^4 R^4-988 r^6 R^4+272 l^4 r R^5-3232 l^2 r^3 R^5+1936 r^5 R^5+20 l^4 R^6-2056 l^2 r^2 R^6+5156 r^4 R^6-464 l^2 r R^7+4720 r^3 R^7-16 l^2 R^8+1840 r^2 R^8+256 r R^9\right)\Big\}$$

$$\Big\{\text{X51, CENTROID OF ORTHIC TRIANGLE, X92, CEVAPOINT OF INCENTER AND CLAWSON POINT}, -\frac{1}{36 R^2 \left(-l^2-r^2+4 R^2\right)^2}$$
$$\left(-5 l^8-4 l^6 r^2+2 l^4 r^4-4 l^2 r^6-5 r^8+64 l^6 r R+64 l^4 r^3 R-64 l^2 r^5 R-64 r^7 R+24 l^6 R^2-56 l^4 r^2 R^2-344 l^2 r^4 R^2-264 r^6 R^2+32 l^4 r R^3-1216 l^2 r^3 R^3-96 r^5 R^3+48 l^4 R^4-2528 l^2 r^2 R^4+2352 r^4 R^4-2176 l^2 r R^5+7296 r^3 R^5-256 l^2 R^6+8960 r^2 R^6+4096 r R^7\right)\Big\}$$

$$\Big\{\text{X51, CENTROID OF ORTHIC TRIANGLE, X93, ISOGONAL CONJUGATE OF X(49)},$$
$$\left(5 l^{12}+14 l^{10} r^2+11 l^8 r^4+4 l^6 r^6+11 l^4 r^8+14 l^2 r^{10}+5 r^{12}-120 l^{10} r R-104 l^8 r^3 R+16 l^6 r^5 R-16 l^4 r^7 R+104 l^2 r^9 R+120 r^{11} R-52 l^{10} R^2+916 l^8 r^2 R^2-808 l^6 r^4 R^2+776 l^4 r^6 R^2-292 l^2 r^8 R^2+1252 r^{10} R^2+1040 l^8 r R^3-4032 l^6 r^3 R^3+6496 l^4 r^5 R^3-5568 l^2 r^7 R^3+7440 r^9 R^3+218 l^8 R^4-7704 l^6 r^2 R^4+19868 l^4 r^4 R^4-25368 l^2 r^6 R^4+27738 r^8 R^4-3488 l^6 r R^5+31840 l^4 r^3 R^5-61024 l^2 r^5 R^5+67488 r^7 R^5-572 l^6 R^6+26116 l^4 r^2 R^6-89796 l^2 r^4 R^6+108540 r^6 R^6+6864 l^4 r R^7-83424 l^2 r^3 R^7+115920 r^5 R^7+997 l^4 R^8-43558 l^2 r^2 R^8+84261 r^4 R^8-7976 l^2 r R^9+44584 r^3 R^9-632 l^2 R^{10}+16584 r^2 R^{10}+2528 r R^{11}+144 R^{12}\right) /$$
$$\left(36 R^2 \left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-8 l^2 R^2+24 r^2 R^2+32 r R^3+13 R^4\right)^2\right)\Big\}$$

$$\{X51,\ \text{CENTROID OF ORTHIC TRIANGLE},\ X94,\ \text{ISOGONAL CONJUGATE OF } X(50),$$
$$\big(5 l^{12} + 14 l^{10} r^2 + 11 l^8 r^4 + 4 l^6 r^6 + 11 l^4 r^8 + 14 l^2 r^{10} + 5 r^{12} - 120 l^{10} r R - 104 l^8 r^3 R + 16 l^6 r^5 R - 16 l^4 r^7 R + 104 l^2 r^9 R + 120 r^{11} R - 68 l^{10} R^2 + 996 l^8 r^2 R^2 - 712 l^6 r^4 R^2 + 680 l^4 r^6 R^2 - 372 l^2 r^8 R^2 + 1268 r^{10} R^2 + 1360 l^8 r R^3 - 5312 l^6 r^3 R^3 + 7392 l^4 r^5 R^3 - 6848 l^2 r^7 R^3 + 7760 r^9 R^3 + 354 l^8 R^4 - 10232 l^6 r^2 R^4 + 26316 l^4 r^4 R^4 - 33016 l^2 r^6 R^4 + 30434 r^8 R^4 - 5664 l^6 r R^5 + 44000 l^4 r^3 R^5 - 83424 l^2 r^5 R^5 + 79904 r^7 R^5 - 828 l^6 R^6 + 34308 l^4 r^2 R^6 - 122308 l^2 r^4 R^6 + 142332 r^6 R^6 + 9936 l^4 r R^7 - 101856 l^2 r^3 R^7 + 170192 r^5 R^7 + 729 l^4 R^8 - 42174 l^2 r^2 R^8 + 131097 r^4 R^8 - 5832 l^2 r R^9 + 58824 r^3 R^9 + 11664 r^2 R^{10}\big) \Big/ \big(36 R^2 \left(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 12 l^2 R^2 + 28 r^2 R^2 + 48 r R^3 + 27 R^4\right)^2\big)\}$$

$$\{X51,\ \text{CENTROID OF ORTHIC TRIANGLE},\ X95,\ \text{CEVAPOINT OF CENTROID AND CIRCUMCENTER},$$
$$-\big(\big(-5 l^{12} - 78 l^{10} r^2 + 501 l^8 r^4 + 5244 l^6 r^6 + 501 l^4 r^8 - 78 l^2 r^{10} - 5 r^{12} + 120 l^{10} r R + 1128 l^8 r^3 R - 5136 l^6 r^5 R + 5136 l^4 r^7 R - 1128 l^2 r^9 R - 120 r^{11} R + 24 l^{10} R^2 - 936 l^8 r^2 R^2 - 2256 l^6 r^4 R^2 + 12528 l^4 r^6 R^2 - 5832 l^2 r^8 R^2 - 1224 r^{10} R^2 - 480 l^8 r R^3 + 3712 l^6 r^3 R^3 - 2112 l^4 r^5 R^3 - 11136 l^2 r^7 R^3 - 6880 r^9 R^3 + 48 l^8 R^4 + 5184 l^6 r^2 R^4 - 43488 l^4 r^4 R^4 + 5184 l^2 r^6 R^4 - 22992 r^8 R^4 - 768 l^6 r R^5 - 25344 l^4 r^3 R^5 + 46848 l^2 r^5 R^5 - 45312 r^7 R^5 - 256 l^6 R^6 - 6912 l^4 r^2 R^6 + 57600 l^2 r^4 R^6 - 46336 r^6 R^6 + 3072 l^4 r R^7 + 30720 l^2 r^3 R^7 - 9216 r^5 R^7 + 15360 l^2 r^2 R^8 + 24576 r^4 R^8 + 16384 r^3 R^9\big) \Big/ \big(36 R^2 \left(l^4 + 18 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 4 l^2 R^2 + 20 r^2 R^2 + 16 r R^3\right)^2\big)\big)\}$$

$$\{X51,\ \text{CENTROID OF ORTHIC TRIANGLE},\ X96,\ \text{ISOGONAL CONJUGATE OF } X(52),$$
$$\frac{1}{36 R^2 \left(-l^4 + 14 l^2 r^2 - r^4 + 8 l^2 r R - 8 r^3 R - 16 r^2 R^2 + 4 R^4\right)^2}$$
$$\big(-7 l^{12} + 70 l^{10} r^2 + 599 l^8 r^4 - 3052 l^6 r^6 + 599 l^4 r^8 + 70 l^2 r^{10} - 7 r^{12} + 168 l^{10} r R - 1288 l^8 r^3 R - 3504 l^6 r^5 R + 3504 l^4 r^7 R + 1288 l^2 r^9 R - 168 r^{11} R + 16 l^{10} R^2 - 1568 l^8 r^2 R^2 + 4384 l^6 r^4 R^2 + 2624 l^4 r^6 R^2 + 9296 l^2 r^8 R^2 - 1696 r^{10} R^2 - 320 l^8 r R^3 + 7936 l^6 r^3 R^3 - 12928 l^4 r^5 R^3 + 33024 l^2 r^7 R^3 - 9280 r^9 R^3 + 344 l^8 R^4 - 1440 l^6 r^2 R^4 - 11504 l^4 r^4 R^4 + 55392 l^2 r^6 R^4 - 29096 r^8 R^4 - 5504 l^6 r R^5 + 27264 l^4 r^3 R^5 + 13696 l^2 r^5 R^5 - 47744 r^7 R^5 - 2144 l^6 R^6 + 46752 l^4 r^2 R^6 - 101280 l^2 r^4 R^6 - 13984 r^6 R^6 + 25728 l^4 r R^7 - 168704 l^2 r^3 R^7 + 97408 r^5 R^7 + 5072 l^4 R^8 - 119136 l^2 r^2 R^8 + 196048 r^4 R^8 - 40576 l^2 r R^9 + 177792 r^3 R^9 - 5504 l^2 R^{10} + 86656 r^2 R^{10} + 22016 r R^{11} + 2304 R^{12}\big)\}$$

$$\{X51,\ \text{CENTROID OF ORTHIC TRIANGLE},\ X97,\ \text{ISOGONAL CONJUGATE OF } X(53),$$
$$\big(-l^{12} - 6 l^{10} r^2 + 177 l^8 r^4 - 660 l^6 r^6 + 177 l^4 r^8 - 6 l^2 r^{10} - r^{12} + 24 l^{10} r R + 72 l^8 r^3 R - 1488 l^6 r^5 R + 1488 l^4 r^7 R - 72 l^2 r^9 R - 24 r^{11} R + 12 l^{10} R^2 + 84 l^8 r^2 R^2 - 2952 l^6 r^4 R^2 + 5928 l^4 r^6 R^2 - 516 l^2 r^8 R^2 - 252 r^{10} R^2 - 240 l^8 r R^3 - 2368 l^6 r^3 R^3 + 13920 l^4 r^5 R^3 - 2880 l^2 r^7 R^3 - 1520 r^9 R^3 - 39 l^8 R^4 - 1248 l^6 r^2 R^4 + 20430 l^4 r^4 R^4 - 11232 l^2 r^6 R^4 - 5799 r^8 R^4 + 624 l^6 r R^5 + 17040 l^4 r^3 R^5 - 27792 l^2 r^5 R^5 - 14448 r^7 R^5 - 8 l^6 R^6 + 8088 l^4 r^2 R^6 - 42168 l^2 r^4 R^6 - 23192 r^6 R^6 + 96 l^4 r R^7 - 37440 l^2 r^3 R^7 - 22176 r^5 R^7 + 144 l^4 R^8 - 16224 l^2 r^2 R^8 - 9456 r^4 R^8 - 1152 l^2 r R^9 + 1664 r^3 R^9 + 2304 r^2 R^{10}\big) \Big/ \big(36 R^2 \left(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 7 l^2 R^2 + 23 r^2 R^2 + 28 r R^3 + 12 R^4\right)^2\big)\}$$

$$\{X51,\ \text{CENTROID OF ORTHIC TRIANGLE},\ X98,\ \text{TarryPoint},$$
$$\big(-7 l^8 - 28 l^6 r^2 + 214 l^4 r^4 - 28 l^2 r^6 - 7 r^8 + 112 l^6 r R + 112 l^4 r^3 R - 112 l^2 r^5 R - 112 r^7 R - 8 l^6 R^2 - 360 l^4 r^2 R^2 + 136 l^2 r^4 R^2 - 664 r^6 R^2 + 96 l^4 r R^3 + 448 l^2 r^3 R^3 - 1696 r^5 R^3 + 144 l^4 R^4 - 672 l^2 r^2 R^4 - 1264 r^4 R^4 - 1152 l^2 r R^5 + 1664 r^3 R^5 + 2304 r^2 R^6\big) \Big/ \big(36 R^2 \left(l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\right)\big)\big)\}$$

$$\{X51,\ \text{CENTROID OF ORTHIC TRIANGLE},\ X99,\ \text{STEINER POINT},$$
$$-\big(\big(-5 l^8 - 20 l^6 r^2 - 286 l^4 r^4 - 20 l^2 r^6 - 5 r^8 + 80 l^6 r R + 80 l^4 r^3 R - 80 l^2 r^5 R - 80 r^7 R - 16 l^6 R^2 - 48 l^4 r^2 R^2 - 112 l^2 r^4 R^2 - 464 r^6 R^2 + 192 l^4 r R^3 - 640 l^2 r^3 R^3 - 1088 r^5 R^3 + 960 l^2 r^2 R^4 - 512 r^4 R^4 + 1024 r^3 R^5\big) \Big/ \big(36 R^2 \left(l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\right)\big)\big)\}$$

$$\{X51,\ \text{CENTROID OF ORTHIC TRIANGLE},\ X100,\ \text{ANTICOMPLEMENT OF FEUERBACH POINT},$$
$$-\frac{2 l^4 r + 36 l^2 r^3 + 2 r^5 + 5 l^4 R - 22 l^2 r^2 R + 21 r^4 R - 72 l^2 r R^2 + 56 r^3 R^2 + 16 l^2 R^3 - 48 r^2 R^3 - 256 r R^4}{36 (2 r - R) R^2}\}$$

$$\{X52,\ \text{ORTHOCENTER OF ORTHIC TRIANGLE},\ X53,\ \text{SYMMEDIAN POINT OF ORTHIC TRIANGLE},$$
$$\left(l^{12}-34 l^{10} r^2+239 l^8 r^4-476 l^6 r^6+239 l^4 r^8-34 l^2 r^{10}+r^{12}-24 l^{10} r R+\right.$$
$$568 l^8 r^3 R-2480 l^6 r^5 R+2480 l^4 r^7 R-568 l^2 r^9 R+24 r^{11} R-12 l^{10} R^2+588 l^8 r^2 R^2-$$
$$5336 l^6 r^4 R^2+10296 l^4 r^6 R^2-3996 l^2 r^8 R^2+252 r^{10} R^2+240 l^8 r R^3-5696 l^6 r^3 R^3+$$
$$22176 l^4 r^5 R^3-15424 l^2 r^7 R^3+1520 r^9 R^3+52 l^8 R^4-3168 l^6 r^2 R^4+26904 l^4 r^4 R^4-$$
$$35680 l^2 r^6 R^4+5812 r^8 R^4-832 l^6 r R^5+18496 l^4 r^3 R^5-50752 l^2 r^5 R^5+14656 r^7 R^5-$$
$$96 l^6 R^6+6816 l^4 r^2 R^6-43808 l^2 r^4 R^6+24544 r^6 R^6+1152 l^4 r R^7-21760 l^2 r^3 R^7+$$
$$\left.26752 r^5 R^7+64 l^4 R^8-5504 l^2 r^2 R^8+17984 r^4 R^8-512 l^2 r R^9+6656 r^3 R^9+1024 r^2 R^{10}\right)\Big/$$
$$\left(4 R^2\left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-4 l^2 R^2+20 r^2 R^2+16 r R^3\right)^2\right)\}$$

$$\{X52,\ \text{ORTHOCENTER OF ORTHIC TRIANGLE},\ X54,\ \text{KosnitaPoint},\ \frac{1}{4 R^2\left(-2 l^2+2 r^2+8 r R+5 R^2\right)^2}$$
$$\left(4 l^8-64 l^6 r^2+120 l^4 r^4-64 l^2 r^6+4 r^8-64 l^6 r R+576 l^4 r^3 R-576 l^2 r^5 R+64 r^7 R-32 l^6 R^2+\right.$$
$$800 l^4 r^2 R^2-1952 l^2 r^4 R^2+416 r^6 R^2+384 l^4 r R^3-3072 l^2 r^3 R^3+1408 r^5 R^3+87 l^4 R^4-$$
$$\left.2242 l^2 r^2 R^4+2647 r^4 R^4-696 l^2 r R^5+2744 r^3 R^5-92 l^2 R^6+1484 r^2 R^6+368 r R^7+36 R^8\right)\}$$

$$\{X52,\ \text{ORTHOCENTER OF ORTHIC TRIANGLE},\ X55,\ \text{INSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),$$
$$\frac{1}{4 R^2 (r+R)^2}\left(l^4 r^2-14 l^2 r^4+r^6+2 l^4 r R-36 l^2 r^3 R+10 r^5 R+l^4 R^2-\right.$$
$$\left.26 l^2 r^2 R^2+37 r^4 R^2-8 l^2 r R^3+64 r^3 R^3-4 l^2 R^4+52 r^2 R^4+8 r R^5+4 R^6\right)\}$$

$$\{X52,\ \text{ORTHOCENTER OF ORTHIC TRIANGLE},\ X56,$$
$$\text{EXSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ \frac{1}{4 (r-R)^2 R^2}\left(l^4 r^2-14 l^2 r^4+r^6-2 l^4 r R+\right.$$
$$\left.20 l^2 r^3 R+6 r^5 R+l^4 R^2-2 l^2 r^2 R^2-3 r^4 R^2-40 r^3 R^3-4 l^2 R^4+20 r^2 R^4+8 r R^5+4 R^6\right)\}$$

$$\{X52,\ \text{ORTHOCENTER OF ORTHIC TRIANGLE},\ X57,\ \text{ISOGONAL CONJUGATE OF } X(9),$$
$$\frac{1}{4 (r-2 R)^2 R^2}\left(l^4 r^2-14 l^2 r^4+r^6-4 l^4 r R+44 l^2 r^3 R+4 l^4 R^2-\right.$$
$$\left.20 l^2 r^2 R^2-32 r^4 R^2-16 l^2 r R^3-40 r^3 R^3-16 l^2 R^4+116 r^2 R^4+48 r R^5+16 R^6\right)\}$$

$$\{X52,\ \text{ORTHOCENTER OF ORTHIC TRIANGLE},\ X58,\ \text{ISOGONAL CONJUGATE OF } X(10),$$
$$\frac{\left(-l^2+3 r^2+4 r R+2 R^2\right)^2\left(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)}{4 R^2\left(-l^2+3 r^2+4 r R\right)^2}\}$$

$$\{X52,\ \text{ORTHOCENTER OF ORTHIC TRIANGLE},\ X59,$$
$$\text{ISOGONAL CONJUGATE OF } X(11),\ \frac{1}{4 (2 r-R) R^2\left(-l^2+r^2+5 r R+4 R^2\right)^2}$$
$$\left(2 l^8 r-32 l^6 r^3+60 l^4 r^5-32 l^2 r^7+2 r^9-l^8 R-20 l^6 r^2 R+318 l^4 r^4 R-\right.$$
$$332 l^2 r^6 R+35 r^8 R-4 l^6 r R^2+366 l^4 r^3 R^2-1208 l^2 r^5 R^2+246 r^7 R^2+12 l^6 R^3-$$
$$15 l^4 r^2 R^3-1730 l^2 r^4 R^3+873 r^6 R^3-68 l^4 r R^4-544 l^2 r^3 R^4+1572 r^5 R^4-52 l^4 R^5+$$
$$\left.588 l^2 r^2 R^5+1080 r^4 R^5+280 l^2 r R^6-528 r^3 R^6+96 l^2 R^7-1028 r^2 R^7-288 r R^8-64 R^9\right)\}$$

$$\{X52,\ \text{ORTHOCENTER OF ORTHIC TRIANGLE},\ X60,$$
$$\text{ISOGONAL CONJUGATE OF } X(12),\ \frac{1}{4 R^2\left(-2 l^2 r+2 r^3-l^2 R+7 r^2 R+7 r R^2\right)^2}$$
$$\left(4 l^8 r^2-64 l^6 r^4+120 l^4 r^6-64 l^2 r^8+4 r^{10}+4 l^8 r R-120 l^6 r^3 R+576 l^4 r^5 R-520 l^2 r^7 R+\right.$$
$$60 r^9 R+l^8 R^2-100 l^6 r^2 R^2+1134 l^4 r^4 R^2-1844 l^2 r^6 R^2+377 r^8 R^2-36 l^6 r R^3+1012 l^4 r^3 R^3-$$
$$3532 l^2 r^5 R^3+1308 r^7 R^3-4 l^6 R^4+447 l^4 r^2 R^4-3814 l^2 r^4 R^4+2759 r^6 R^4+84 l^4 r R^5-$$
$$\left.2184 l^2 r^3 R^5+3604 r^5 R^5+4 l^4 R^6-604 l^2 r^2 R^6+2808 r^4 R^6-56 l^2 r R^7+1160 r^3 R^7+196 r^2 R^8\right)\}$$

$$\left\{\text{X52, ORTHOCENTER OF ORTHIC TRIANGLE, X61, ISOGONAL CONJUGATE OF X(17)},\ \frac{\left(-l^2-2\sqrt{3}\,l\,r+r^2+4\,r\,R\right)\left(-l^2+2\sqrt{3}\,l\,r+r^2+4\,r\,R\right)\left(3\,l^2+2\sqrt{3}\,l\,r-3\,r^2-12\,r\,R-6\,R^2\right)^2}{4\,R^2\left(3\,l^2+2\sqrt{3}\,l\,r-3\,r^2-12\,r\,R\right)^2}\right\}$$

$$\left\{\text{X52, ORTHOCENTER OF ORTHIC TRIANGLE, X62, ISOGONAL CONJUGATE OF X(18)},\ \frac{\left(-l^2-2\sqrt{3}\,l\,r+r^2+4\,r\,R\right)\left(-l^2+2\sqrt{3}\,l\,r+r^2+4\,r\,R\right)\left(3\,l^2-2\sqrt{3}\,l\,r-3\,r^2-12\,r\,R-6\,R^2\right)^2}{4\,R^2\left(3\,l^2-2\sqrt{3}\,l\,r-3\,r^2-12\,r\,R\right)^2}\right\}$$

$$\left\{\text{X52, ORTHOCENTER OF ORTHIC TRIANGLE, X63, ISOGONAL CONJUGATE OF X(19)},\ \frac{1}{4\,R^2\,(r+R)^2}\left(l^4\,r^2-14\,l^2\,r^4+r^6+4\,l^4\,r\,R-36\,l^2\,r^3\,R+8\,r^5\,R+3\,l^4\,R^2-50\,l^2\,r^2\,R^2+19\,r^4\,R^2-28\,l^2\,r\,R^3+12\,r^3\,R^3-4\,l^2\,R^4-8\,r\,R^5+4\,R^6\right)\right\}$$

$$\left\{\text{X52, ORTHOCENTER OF ORTHIC TRIANGLE, X64, ISOGONAL CONJUGATE OF X(20)},\ \frac{1}{4\,R^2\,(-l+r+2\,R)^2\,(l+r+2\,R)^2}\left(l^8-16\,l^6\,r^2+30\,l^4\,r^4-16\,l^2\,r^6+r^8-16\,l^6\,r\,R+144\,l^4\,r^3\,R-144\,l^2\,r^5\,R+16\,r^7\,R+4\,l^6\,R^2+164\,l^4\,r^2\,R^2-452\,l^2\,r^4\,R^2+92\,r^6\,R^2-48\,l^4\,r\,R^3-480\,l^2\,r^3\,R^3+208\,r^5\,R^3-60\,l^4\,R^4+200\,l^2\,r^2\,R^4+4\,r^4\,R^4+480\,l^2\,r\,R^5-736\,r^3\,R^5-32\,l^2\,R^6-928\,r^2\,R^6+128\,r\,R^7+576\,R^8\right)\right\}$$

$$\left\{\text{X52, ORTHOCENTER OF ORTHIC TRIANGLE, X65, ORTHOCENTER OF THE INTOUCH TRIANGLE},\ \frac{l^4-10\,l^2\,r^2+5\,r^4-8\,l^2\,r\,R+24\,r^3\,R-4\,l^2\,R^2+40\,r^2\,R^2+16\,r\,R^3+4\,R^4}{4\,R^2}\right\}$$

$$\left\{\text{X52, ORTHOCENTER OF ORTHIC TRIANGLE, X66, ISOGONAL CONJUGATE OF X(22)},\ \frac{1}{4\,R^2\,(-l+r+2\,R)^2\,(l+r+2\,R)^2\left(-l^2+r^2+4\,r\,R\right)^2}\left(3\,l^{12}-22\,l^{10}\,r^2+61\,l^8\,r^4-84\,l^6\,r^6+61\,l^4\,r^8-22\,l^2\,r^{10}+3\,r^{12}-72\,l^{10}\,r\,R+424\,l^8\,r^3\,R-912\,l^6\,r^5\,R+912\,l^4\,r^7\,R-424\,l^2\,r^9\,R+72\,r^{11}\,R-32\,l^{10}\,R^2+896\,l^8\,r^2\,R^2-3632\,l^6\,r^4\,R^2+5456\,l^4\,r^6\,R^2-3440\,l^2\,r^8\,R^2+752\,r^{10}\,R^2+640\,l^8\,r\,R^3-6592\,l^6\,r^3\,R^3+16\,768\,l^4\,r^5\,R^3-15\,296\,l^2\,r^7\,R^3+4480\,r^9\,R^3+112\,l^8\,R^4-5520\,l^6\,r^2\,R^4+28\,224\,l^4\,r^4\,R^4-40\,592\,l^2\,r^6\,R^4+16\,752\,r^8\,R^4-1792\,l^6\,r\,R^5+25\,472\,l^4\,r^3\,R^5-65\,408\,l^2\,r^5\,R^5+40\,704\,r^7\,R^5-144\,l^6\,R^6+11\,056\,l^4\,r^2\,R^6-62\,000\,l^2\,r^4\,R^6+64\,144\,r^6\,R^6+1728\,l^4\,r\,R^7-31\,616\,l^2\,r^3\,R^7+63\,168\,r^5\,R^7+64\,l^4\,R^8-7232\,l^2\,r^2\,R^8+35\,648\,r^4\,R^8-512\,l^2\,r\,R^9+9728\,r^3\,R^9+1024\,r^2\,R^{10}\right)\right\}$$

$$\left\{\text{X52, ORTHOCENTER OF ORTHIC TRIANGLE, X67, ISOGONAL CONJUGATE OF X(23)},\ \frac{1}{4\,R^2\left(-l^2+r^2+4\,r\,R\right)^2\left(-2\,l^2+2\,r^2+8\,r\,R+9\,R^2\right)}\left(-6\,l^{10}+38\,l^8\,r^2-84\,l^6\,r^4+84\,l^4\,r^6-38\,l^2\,r^8+6\,r^{10}+120\,l^8\,r\,R-576\,l^6\,r^3\,R+912\,l^4\,r^5\,R-576\,l^2\,r^7\,R+120\,r^9\,R+37\,l^8\,R^2-1072\,l^6\,r^2\,R^2+3414\,l^4\,r^4\,R^2-3376\,l^2\,r^6\,R^2+997\,r^8\,R^2-592\,l^6\,r\,R^3+5328\,l^4\,r^3\,R^3-9680\,l^2\,r^5\,R^3+4432\,r^7\,R^3-60\,l^6\,R^4+3588\,l^4\,r^2\,R^4-14\,244\,l^2\,r^4\,R^4+11\,292\,r^6\,R^4+720\,l^4\,r\,R^5-10\,336\,l^2\,r^3\,R^5+16\,336\,r^5\,R^5+36\,l^4\,R^6-3384\,l^2\,r^2\,R^6+12\,388\,r^4\,R^6-288\,l^2\,r\,R^7+4128\,r^3\,R^7+576\,r^2\,R^8\right)\right\}$$

$$\left\{\text{X52, ORTHOCENTER OF ORTHIC TRIANGLE, X68, PRASOLOV POINT},\ \frac{\left(-l^2+r^2+4\,r\,R+2\,R^2\right)^2\left(3\,l^4-10\,l^2\,r^2+3\,r^4-24\,l^2\,r\,R+24\,r^3\,R-20\,l^2\,R^2+68\,r^2\,R^2+80\,r\,R^3+36\,R^4\right)}{4\,R^2\,(-l+r+2\,R)^2\,(l+r+2\,R)^2}\right\}$$

$$\Big\{\text{X52, ORTHOCENTER OF ORTHIC TRIANGLE, X69, SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE, } \frac{1}{4R^2\left(-l^2+r^2+4rR\right)^2}\left(3l^8-16l^6r^2+26l^4r^4-16l^2r^6+3r^8-48l^6rR+176l^4r^3R-176l^2r^5R+48r^7R-4l^6R^2+236l^4r^2R^2-588l^2r^4R^2+292r^6R^2+48l^4rR^3-608l^2r^3R^3+816r^5R^3+4l^4R^4-392l^2r^2R^4+964r^4R^4-32l^2rR^5+288r^3R^5+64r^2R^6\right)\Big\}$$

$$\Big\{\text{X52, ORTHOCENTER OF ORTHIC TRIANGLE, X70, ISOGONAL CONJUGATE OF X(26), } \left(3l^{12}-22l^{10}r^2+61l^8r^4-84l^6r^6+61l^4r^8-22l^2r^{10}+3r^{12}-72l^{10}rR+424l^8r^3R-912l^6r^5R+912l^4r^7R-424l^2r^9R+72r^{11}R-44l^{10}R^2+972l^8r^2R^2-3800l^6r^4R^2+5624l^4r^6R^2-3516l^2r^8R^2+764r^{10}R^2+880l^8rR^3-7744l^6r^3R^3+18592l^4r^5R^3-16448l^2r^7R^3+4720r^9R^3+254l^8R^4-8112l^6r^2R^4+35812l^4r^4R^4-47792l^2r^6R^4+18814r^8R^4-4064l^6rR^5+40800l^4r^3R^5-89440l^2r^5R^5+50656r^7R^5-744l^6R^6+26584l^4r^2R^6-108184l^2r^4R^6+93736r^6R^6+8928l^4rR^7-82752l^2r^3R^7+119008r^5R^7+1183l^4R^8-38066l^2r^2R^8+101919r^4R^8-9464l^2rR^9+57080r^3R^9-972l^2R^{10}+19900r^2R^{10}+3888rR^{11}+324R^{12}\right)\Big/\left(4R^2\left(l^4-2l^2r^2+r^4-8l^2rR+8r^3R-6l^2R^2+22r^2R^2+24rR^3+7R^4\right)^2\right)\Big\}$$

$$\Big\{\text{X52, ORTHOCENTER OF ORTHIC TRIANGLE, X71, ISOGONAL CONJUGATE OF X(27), } \frac{1}{4R^2\left(l^2+r^2+6rR+8R^2\right)^2}\left(l^8-12l^6r^2-26l^4r^4-12l^2r^6+r^8+4l^6rR-164l^4r^3R-148l^2r^5R+20r^7R+28l^6R^2-288l^4r^2R^2-724l^2r^4R^2+168r^6R^2-64l^4rR^3-1792l^2r^3R^3+768r^5R^3+148l^4R^4-2360l^2r^2R^4+2068r^4R^4-1552l^2rR^5+3312r^3R^5-384l^2R^6+3024r^2R^6+1408rR^7+256R^8\right)\Big\}$$

$$\Big\{\text{X52, ORTHOCENTER OF ORTHIC TRIANGLE, X72, ISOGONAL CONJUGATE OF X(28), } \frac{3l^4-14l^2r^2-r^4-24l^2rR-8r^3R-4l^2R^2-16r^2R^2-8rR^3+4R^4}{4R^2}\Big\}$$

$$\Big\{\text{X52, ORTHOCENTER OF ORTHIC TRIANGLE, X73, CROSSPOINT OF INCENTER AND CIRCUMCENTER, } \frac{1}{4R^2\left(-l^2-r^2+2rR+4R^2\right)^2}\left(l^8-12l^6r^2-26l^4r^4-12l^2r^6+r^8-12l^6rR+44l^4r^3R+60l^2r^5R+4r^7R-12l^6R^2+200l^4r^2R^2+116l^2r^4R^2-32r^6R^2+112l^4rR^3-480l^2r^3R^3-144r^5R^3+52l^4R^4-920l^2r^2R^4+148r^4R^4-336l^2rR^5+1136r^3R^5-96l^2R^6+1264r^2R^6+320rR^7+64R^8\right)\Big\}$$

$$\Big\{\text{X52, ORTHOCENTER OF ORTHIC TRIANGLE, X74, ISOGONAL CONJUGATE OF EULER INFINITY POINT, } \left(-2l^6+30l^4r^2-30l^2r^4+2r^6+24l^4rR-144l^2r^3R+24r^5R-l^4R^2-178l^2r^2R^2+95r^4R^2+8l^2rR^3+120r^3R^3+28l^2R^4-44r^2R^4-112rR^5+36R^6\right)\Big/\left(4R^2\left(-2l^2+2r^2+8rR+9R^2\right)\right)\Big\}$$

$$\Big\{\text{X52, ORTHOCENTER OF ORTHIC TRIANGLE, X75, ISOTOMIC CONJUGATE OF INCENTER, } \frac{1}{4R^2\left(l^2+r^2+4rR\right)^2}\left(3l^8-4l^6r^2-14l^4r^4-4l^2r^6+3r^8-16l^6rR-112l^4r^3R-48l^2r^5R+48r^7R-4l^6R^2-132l^4r^2R^2-92l^2r^4R^2+292r^6R^2-48l^4rR^3+256l^2r^3R^3+816r^5R^3+4l^4R^4+264l^2r^2R^4+964r^4R^4+32l^2rR^5+288r^3R^5+64r^2R^6\right)\Big\}$$

$$\left\{\text{X52, ORTHOCENTER OF ORTHIC TRIANGLE, X76, 3rd BROCARD POINT, } \frac{1}{4R^2\left(l^4+2l^2r^2+r^4-8l^2rR+8r^3R+16r^2R^2\right)^2}\right.$$
$$\left(3l^{12}+2l^{10}r^2-19l^8r^4-36l^6r^6-19l^4r^8+2l^2r^{10}+3r^{12}-72l^{10}rR+40l^8r^3R+112l^6r^5R-112l^4r^7R-40l^2r^9R+72r^{11}R-4l^{10}R^2+580l^8r^2R^2-1096l^6r^4R^2+872l^4r^6R^2-820l^2r^8R^2+724r^{10}R^2+80l^8rR^3-2240l^6r^3R^3+5344l^4r^5R^3-4800l^2r^7R^3+3920r^9R^3+4l^8R^4-752l^6r^2R^4+6552l^4r^4R^4-12272l^2r^6R^4+12164r^8R^4-64l^6rR^5+3520l^4r^3R^5-14272l^2r^5R^5+21056r^7R^5+384l^4r^2R^6-7424l^2r^4R^6+17792r^6R^6-1024l^2r^3R^7+5120r^5R^7+1024r^4R^8\right)\Big\}$$

$$\left\{\text{X52, ORTHOCENTER OF ORTHIC TRIANGLE, X77, ISOGONAL CONJUGATE OF X(33),}\right.$$
$$\frac{1}{4R^2\left(-l^2+rR+4R^2\right)^2}\left(l^8-14l^6r^2+l^4r^4-8l^6rR+36l^4r^3R-4l^2r^5R-12l^6R^2+171l^4r^2R^2-62l^2r^4R^2+3r^6R^2+84l^4rR^3-340l^2r^3R^3+48r^5R^3+52l^4R^4-700l^2r^2R^4+292r^4R^4-280l^2rR^5+816r^3R^5-96l^2R^6+964r^2R^6+288rR^7+64R^8\right)\Big\}$$

$$\left\{\text{X52, ORTHOCENTER OF ORTHIC TRIANGLE, X78, ISOGONAL CONJUGATE OF X(34),}\right.$$
$$\frac{1}{4(r-R)^2R^2}\left(l^4r^2-14l^2r^4+r^6-4l^4rR+20l^2r^3R+8r^5R+3l^4R^2+22l^2r^2R^2+11r^4R^2-20l^2rR^3-28r^3R^3-4l^2R^4-32r^2R^4-8rR^5+4R^6\right)\Big\}$$

$$\left\{\text{X52, ORTHOCENTER OF ORTHIC TRIANGLE, X79, ISOGONAL CONJUGATE OF X(35),}\right.$$
$$\frac{1}{4R^2(2r+3R)^2}\left(12l^4r^2-40l^2r^4+12r^6+24l^4rR-224l^2r^3R+136r^5R+9l^4R^2-382l^2r^2R^2+585r^4R^2-180l^2rR^3+1164r^3R^3-36l^2R^4+1012r^2R^4+264rR^5+36R^6\right)\Big\}$$

$$\left\{\text{X52, ORTHOCENTER OF ORTHIC TRIANGLE, X80, REFLECTION OF INCENTER IN FEUERBACH POINT,}\right.$$
$$\left.\frac{6l^4r-20l^2r^3+6r^5-l^4R-42l^2r^2R+39r^4R-20l^2rR^2+92r^3R^2+4l^2R^3+76r^2R^3+16rR^4-4R^5}{4(2r-R)R^2}\right\}$$

$$\left\{\text{X52, ORTHOCENTER OF ORTHIC TRIANGLE, X81, CEVAPOINT OF INCENTER AND SYMMEDIAN POINT, } \frac{1}{4R^2\left(-l^2+r^2+rR\right)^2}\right.$$
$$\left(l^8-16l^6r^2+30l^4r^4-16l^2r^6+r^8-8l^6rR+56l^4r^3R-56l^2r^5R+8r^7R-4l^6R^2+75l^4r^2R^2-110l^2r^4R^2+19r^6R^2+20l^4rR^3-96l^2r^3R^3+12r^5R^3+4l^4R^4-68l^2r^2R^4-8l^2rR^5-8r^3R^5+4r^2R^6\right)\Big\}$$

$$\left\{\text{X52, ORTHOCENTER OF ORTHIC TRIANGLE, X82, ISOGONAL CONJUGATE OF X(38), } \frac{1}{4R^2\left(l^4-4l^2r^2+3r^4-9l^2rR+19r^3R+28r^2R^2\right)^2}\right.$$
$$\left(l^{12}-22l^{10}r^2+135l^8r^4-340l^6r^6+367l^4r^8-150l^2r^{10}+9r^{12}-24l^{10}rR+432l^8r^3R-2016l^6r^5R+3472l^4r^7R-2056l^2r^9R+192r^{11}R-4l^{10}R^2+323l^8r^2R^2-3836l^6r^4R^2+11890l^4r^6R^2-11144l^2r^8R^2+1731r^{10}R^2+84l^8rR^3-2680l^6r^3R^3+18336l^4r^5R^3-30536l^2r^7R^3+8524r^9R^3+4l^8R^4-812l^6r^2R^4+13196l^4r^4R^4-45044l^2r^6R^4+24656r^8R^4-72l^6rR^5+4392l^4r^3R^5-35128l^2r^5R^5+41688r^7R^5+548l^4r^2R^6-12888l^2r^4R^6+38276r^6R^6-2016l^2r^3R^7+16288r^5R^7+3136r^4R^8\right)\Big\}$$

$$\Big\{X52,\ \text{ORTHOCENTER OF ORTHIC TRIANGLE},\ X83,$$

$$\text{CEVAPOINT OF CENTROID AND SYMMEDIAN POINT},\ \frac{1}{4R^2\left(5l^4-6l^2r^2+5r^4-40l^2rR+40r^3R+80r^2R^2\right)^2}$$

$$\Big(35l^{12}-382l^{10}r^2+973l^8r^4-1316l^6r^6+973l^4r^8-382l^2r^{10}+35r^{12}-840l^{10}rR+$$
$$6952l^8r^3R-14736l^6r^5R+14736l^4r^7R-6952l^2r^9R+840r^{11}R-116l^{10}R^2+9012l^8r^2R^2-$$
$$51432l^6r^4R^2+80904l^4r^6R^2-50724l^2r^8R^2+8516r^{10}R^2+2320l^8rR^3-54464l^6r^3R^3+$$
$$193376l^4r^5R^3-188096l^2r^7R^3+47120r^9R^3+100l^8R^4-18672l^6r^2R^4+192216l^4r^4R^4-$$
$$370160l^2r^6R^4+153060r^8R^4-1600l^6rR^5+76736l^4r^3R^5-368064l^2r^5R^5+290880r^7R^5+$$
$$9600l^4r^2R^6-163072l^2r^4R^6+301440r^6R^6-25600l^2r^3R^7+144384r^5R^7+25600r^4R^8\Big)\Big\}$$

$$\Big\{X52,\ \text{ORTHOCENTER OF ORTHIC TRIANGLE},\ X84,$$

$$\text{ISOGONAL CONJUGATE OF } X(40),\ \frac{1}{4r^2R^2}\Big(l^4r^2-14l^2r^4+r^6+4l^4rR-4l^2r^3R+$$
$$8r^5R-36l^2r^2R^2+20r^4R^2-8l^2rR^3+32r^3R^3-16l^2R^4+68r^2R^4+32rR^5+64R^6\Big)\Big\}$$

$$\Big\{X52,\ \text{ORTHOCENTER OF ORTHIC TRIANGLE},\ X85,$$

$$\text{ISOTOMIC CONJUGATE OF } X(9),\ \frac{1}{4R^2\left(l^2+r^2+8rR+16R^2\right)^2}$$

$$\Big(3l^8-4l^6r^2-14l^4r^4-4l^2r^6+3r^8+8l^6rR-168l^4r^3R-104l^2r^5R+72r^7R+60l^6R^2-532l^4r^2R^2-$$
$$892l^2r^4R^2+724r^6R^2-400l^4rR^3-3264l^2r^3R^3+3920r^5R^3+68l^4R^4-4856l^2r^2R^4+$$
$$12164r^4R^4-1984l^2rR^5+21056r^3R^5-896l^2R^6+17792r^2R^6+5120rR^7+1024R^8\Big)\Big\}$$

$$\Big\{X52,\ \text{ORTHOCENTER OF ORTHIC TRIANGLE},\ X86,$$

$$\text{CEVAPOINT OF INCENTER AND CENTROID},\ \frac{1}{4R^2\left(5l^2+r^2+4rR\right)^2}$$

$$\Big(35l^8-308l^6r^2-78l^4r^4+12l^2r^6+3r^8-192l^6rR-336l^4r^3R+160l^2r^5R+48r^7R-$$
$$116l^6R^2+412l^4r^2R^2+820l^2r^4R^2+292r^6R^2+240l^4rR^3+1696l^2r^3R^3+$$
$$816r^5R^3+100l^4R^4+680l^2r^2R^4+964r^4R^4+160l^2rR^5+288r^3R^5+64r^2R^6\Big)\Big\}$$

$$\Big\{X52,\ \text{ORTHOCENTER OF ORTHIC TRIANGLE},\ X87,$$

$$X(2)\text{-CROSS CONJUGATE OF } X(1),\ \frac{1}{4R^2\left(l^4+2l^2r^2+r^4-20l^2rR+12r^3R+32r^2R^2\right)^2}$$

$$\Big(l^{12}-10l^{10}r^2-49l^8r^4-76l^6r^6-49l^4r^8-10l^2r^{10}+r^{12}-52l^{10}rR+460l^8r^3R+696l^6r^5R-$$
$$168l^4r^7R-324l^2r^9R+28r^{11}R-4l^{10}R^2+948l^8r^2R^2-6280l^6r^4R^2+5384l^4r^6R^2-3444l^2r^8R^2+$$
$$324r^{10}R^2+184l^8rR^3-7648l^6r^3R^3+23056l^4r^5R^3-16224l^2r^7R^3+2040r^9R^3+4l^8R^4-$$
$$2704l^6r^2R^4+31928l^4r^4R^4-39632l^2r^6R^4+7652r^8R^4-160l^6rR^5+13984l^4r^3R^5-50400l^2r^5R^5+$$
$$17376r^7R^5+1856l^4r^2R^6-28544l^2r^4R^6+22848r^6R^6-5120l^2r^3R^7+15360r^5R^7+4096r^4R^8\Big)\Big\}$$

$$\Big\{X52,\ \text{ORTHOCENTER OF ORTHIC TRIANGLE},\ X88,\ \text{ISOGONAL CONJUGATE OF } X(44),$$

$$\frac{1}{4R^2\left(-l^2-3r^2+15rR\right)^2}\Big(l^8-8l^6r^2-74l^4r^4-120l^2r^6+9r^8-40l^6rR+264l^4r^3R+$$
$$1128l^2r^5R-72r^7R-4l^6R^2+555l^4r^2R^2-2238l^2r^4R^2-477r^6R^2+140l^4rR^3-3168l^2r^3R^3+$$
$$1332r^5R^3+4l^4R^4-1476l^2r^2R^4+7200r^4R^4-120l^2rR^5+4104r^3R^5+900r^2R^6\Big)\Big\}$$

$$\Big\{X52,\ \text{ORTHOCENTER OF ORTHIC TRIANGLE},\ X89,\ \text{ISOGONAL CONJUGATE OF } X(45),$$

$$\frac{1}{4R^2\left(2l^2-6r^2+3rR\right)^2}\Big(4l^8-80l^6r^2+376l^4r^4-528l^2r^6+36r^8-16l^6rR+$$
$$48l^4r^3R-48l^2r^5R+144r^7R-16l^6R^2+255l^4r^2R^2-498l^2r^4R^2-369r^6R^2+8l^4rR^3+$$
$$648l^2r^3R^3-1584r^5R^3+16l^4R^4-108l^2r^2R^4-468r^4R^4+48l^2rR^5-864r^3R^5+36r^2R^6\Big)\Big\}$$

$$\left\{X52,\ \text{ORTHOCENTER OF ORTHIC TRIANGLE},\ X90,\ X(3)\text{-CROSS CONJUGATE OF } X(1),\ \frac{1}{4R^2\left(-r^2-2rR+R^2\right)^2}\left(l^4r^4-14l^2r^6+r^8+8l^4r^3R-60l^2r^5R+12r^7R+10l^4r^2R^2-88l^2r^4R^2+54r^6R^2-8l^4rR^3-48l^2r^3R^3+112r^5R^3+l^4R^4+2l^2r^2R^4+101r^4R^4+28l^2rR^5+12r^3R^5-4l^2R^6-36r^2R^6-24rR^7+4R^8\right)\right\}$$

$$\left\{X52,\ \text{ORTHOCENTER OF ORTHIC TRIANGLE},\ X91,\ \text{ISOGONAL CONJUGATE OF } X(47),\ \frac{1}{4R^2\left(l^2r+r^3-l^2R+3r^2R+2rR^2+2R^3\right)^2}\left(3l^8r^2-4l^6r^4-14l^4r^6-4l^2r^8+3r^{10}-4l^8rR-72l^4r^5R-32l^2r^7R+44r^9R+l^8R^2+16l^6r^2R^2-62l^4r^4R^2-72l^2r^6R^2+261r^8R^2+16l^6rR^3-64l^4r^3R^3-48l^2r^5R^3+800r^7R^3-8l^6R^4-72l^4r^2R^4-56l^2r^4R^4+1352r^6R^4+1280r^5R^5+24l^4R^6+712r^4R^6-64l^2rR^7+256r^3R^7-32l^2R^8+112r^2R^8+64rR^9+16R^{10}\right)\right\}$$

$$\left\{X52,\ \text{ORTHOCENTER OF ORTHIC TRIANGLE},\ X92,\ \text{CEVAPOINT OF INCENTER AND CLAWSON POINT},\ \frac{1}{4R^2\left(-l^2-r^2+4R^2\right)^2}\left(3l^8-4l^6r^2-14l^4r^4-4l^2r^6+3r^8-32l^6rR-32l^4r^3R+32l^2r^5R+32r^7R-28l^6R^2+84l^4r^2R^2+220l^2r^4R^2+108r^6R^2+192l^4rR^3+352l^2r^3R^3+32r^5R^3+84l^4R^4+72l^2r^2R^4-588r^4R^4-192l^2rR^5-1344r^3R^5-96l^2R^6-1120r^2R^6-256rR^7+64R^8\right)\right\}$$

$$\left\{X52,\ \text{ORTHOCENTER OF ORTHIC TRIANGLE},\ X93,\ \text{ISOGONAL CONJUGATE OF } X(49),\ \left(3l^{12}+2l^{10}r^2-19l^8r^4-36l^6r^6-19l^4r^8+2l^2r^{10}+3r^{12}-72l^{10}rR+40l^8r^3R+112l^6r^5R-112l^4r^7R-40l^2r^9R+72r^{11}R-48l^{10}R^2+704l^8r^2R^2-928l^6r^4R^2+704l^4r^6R^2-944l^2r^8R^2+768r^{10}R^2+960l^8rR^3-4608l^6r^3R^3+7040l^4r^5R^3-7168l^2r^7R^3+4800r^9R^3+314l^8R^4-7704l^6r^2R^4+22620l^4r^4R^4-28696l^2r^6R^4+19514r^8R^4-5024l^6rR^5+35936l^4r^3R^5-68704l^2r^5R^5+54176r^7R^5-1092l^6R^6+30972l^4r^2R^6-102844l^2r^4R^6+104964r^6R^6+13104l^4rR^7-96800l^2r^3R^7+142640r^5R^7+2139l^4R^8-55482l^2r^2R^8+134939r^4R^8-17112l^2rR^9+87000r^3R^9-2180l^2R^{10}+36404r^2R^{10}+8720rR^{11}+900R^{12}\right)\Big/\left(4R^2\left(l^4+2l^2r^2+r^4-8l^2rR+8r^3R-8l^2R^2+24r^2R^2+32rR^3+13R^4\right)^2\right)\right\}$$

$$\left\{X52,\ \text{ORTHOCENTER OF ORTHIC TRIANGLE},\ X94,\ \text{ISOGONAL CONJUGATE OF } X(50),\ \left(3l^{12}+2l^{10}r^2-19l^8r^4-36l^6r^6-19l^4r^8+2l^2r^{10}+3r^{12}-72l^{10}rR+40l^8r^3R+112l^6r^5R-112l^4r^7R-40l^2r^9R+72r^{11}R-64l^{10}R^2+784l^8r^2R^2-832l^6r^4R^2+608l^4r^6R^2-1024l^2r^8R^2+784r^{10}R^2+1280l^8rR^3-5888l^6r^3R^3+7936l^4r^5R^3-8448l^2r^7R^3+5120r^9R^3+538l^8R^4-11288l^6r^2R^4+30876l^4r^4R^4-37400l^2r^6R^4+22298r^8R^4-8608l^6rR^5+57952l^4r^3R^5-100960l^2r^5R^5+68000r^7R^5-2292l^6R^6+56652l^4r^2R^6-172556l^2r^4R^6+148148r^6R^6+27504l^4rR^7-185248l^2r^3R^7+230768r^5R^7+5247l^4R^8-119538l^2r^2R^8+252991r^4R^8-41976l^2rR^9+188664r^3R^9-6156l^2R^{10}+90108r^2R^{10}+24624rR^{11}+2916R^{12}\right)\Big/\left(4R^2\left(l^4+2l^2r^2+r^4-8l^2rR+8r^3R-12l^2R^2+28r^2R^2+48rR^3+27R^4\right)^2\right)\right\}$$

$$\left\{X52,\ \text{ORTHOCENTER OF ORTHIC TRIANGLE},\ X95,\ \text{CEVAPOINT OF CENTROID AND CIRCUMCENTER},\ \left(3l^{12}+66l^{10}r^2-19l^8r^4-4260l^6r^6-19l^4r^8+66l^2r^{10}+3r^{12}-72l^{10}rR-984l^8r^3R+1136l^6r^5R-1136l^4r^7R+984l^2r^9R+72r^{11}R-28l^{10}R^2+316l^8r^2R^2+4808l^6r^4R^2-7080l^4r^6R^2+5588l^2r^8R^2+748r^{10}R^2+560l^8rR^3+448l^6r^3R^3-12768l^4r^5R^3+14272l^2r^7R^3+4400r^9R^3+84l^8R^4-3824l^6r^2R^4+5112l^4r^4R^4+11792l^2r^6R^4+16084r^8R^4-1344l^6rR^5+14016l^4r^3R^5-15552l^2r^5R^5+37696r^7R^5-96l^6R^6+8480l^4r^2R^6-36512l^2r^4R^6+56288r^6R^6+1152l^4rR^7-24320l^2r^3R^7+51328r^5R^7+64l^4R^8-7808l^2r^2R^8+26176r^4R^8-512l^2rR^9+6656r^3R^9+1024r^2R^{10}\right)\Big/\left(4R^2\left(l^4+18l^2r^2+r^4-8l^2rR+8r^3R-4l^2R^2+20r^2R^2+16rR^3\right)^2\right)\right\}$$

$$\Big\{\text{X52, ORTHOCENTER OF ORTHIC TRIANGLE, X96, ISOGONAL CONJUGATE OF X(52)}, \frac{1}{4R^2\left(-l^4+14l^2r^2-r^4+8l^2rR-8r^3R-16r^2R^2+4R^4\right)^2}$$
$$\left(-l^{12}-22l^{10}r^2+689l^8r^4-2676l^6r^6+689l^4r^8-22l^2r^{10}-r^{12}+24l^{10}rR+328l^8r^3R-5840l^6r^5R+5840l^4r^7R-328l^2r^9R-24r^{11}R+12l^{10}R^2-268l^8r^2R^2-3816l^6r^4R^2+15496l^4r^6R^2-1700l^2r^8R^2-252r^{10}R^2-240l^8rR^3+1856l^6r^3R^3+11104l^4r^5R^3-2752l^2r^7R^3-1520r^9R^3-20l^8R^4+2416l^6r^2R^4-7032l^4r^4R^4+5232l^2r^6R^4-5780r^8R^4+320l^6rR^5-11968l^4r^3R^5+23744l^2r^5R^5-14144r^7R^5-160l^6R^6-2592l^4r^2R^6+26528l^2r^4R^6-21216r^6R^6+1920l^4rR^7+5888l^2r^3R^7-15488r^5R^7+720l^4R^8-8288l^2r^2R^8+3280r^4R^8-5760l^2rR^9+16000r^3R^9-1088l^2R^{10}+12608r^2R^{10}+4352rR^{11}+576R^{12}\right)\Big\}$$

$$\Big\{\text{X52, ORTHOCENTER OF ORTHIC TRIANGLE, X97, ISOGONAL CONJUGATE OF X(53)},$$
$$\left(l^{12}-26l^{10}r^2+207l^8r^4-556l^6r^6+207l^4r^8-26l^2r^{10}+r^{12}-24l^{10}rR+440l^8r^3R-2096l^6r^5R+2096l^4r^7R-440l^2r^9R+24r^{11}R-20l^{10}R^2+628l^8r^2R^2-4776l^6r^4R^2+8968l^4r^6R^2-3268l^2r^8R^2+260r^{10}R^2+400l^8rR^3-6336l^6r^3R^3+21600l^4r^5R^3-14016l^2r^7R^3+1680r^9R^3+159l^8R^4-5424l^6r^2R^4+33186l^4r^4R^4-38448l^2r^6R^4+7199r^8R^4-2544l^6rR^5+33136l^4r^3R^5-70512l^2r^5R^5+21488r^7R^5-636l^6R^6+21236l^4r^2R^6-87508l^2r^4R^6+45596r^6R^6+7632l^4rR^7-72224l^2r^3R^7+68816r^5R^7+1332l^4R^8-37352l^2r^2R^8+72564r^4R^8-10656l^2rR^9+51360r^3R^9-1376l^2R^{10}+22688r^2R^{10}+5504rR^{11}+576R^{12}\right)\Big/$$
$$\left(4R^2\left(l^4-6l^2r^2+r^4-8l^2rR+8r^3R-7l^2R^2+23r^2R^2+28rR^3+12R^4\right)^2\right)\Big\}$$

$$\Big\{\text{X52, ORTHOCENTER OF ORTHIC TRIANGLE, X98, TarryPoint},$$
$$\left(-l^8-36l^6r^2+186l^4r^4-36l^2r^6-r^8+16l^6rR+272l^4r^3R-272l^2r^5R-16r^7R+4l^6R^2+36l^4r^2R^2-580l^2r^4R^2-100r^6R^2-48l^4rR^3-224l^2r^3R^3-304r^5R^3+4l^4R^4+136l^2r^2R^4-444r^4R^4-32l^2rR^5-224r^3R^5+64r^2R^6\right)\Big/\left(4R^2\left(l^4-14l^2r^2+r^4-8l^2rR+8r^3R+16r^2R^2\right)\right)\Big\}$$

$$\Big\{\text{X52, ORTHOCENTER OF ORTHIC TRIANGLE, X99, STEINER POINT},$$
$$\left(3l^8-20l^6r^2+210l^4r^4-20l^2r^6+3r^8-48l^6rR+208l^4r^3R-208l^2r^5R+48r^7R-4l^6R^2+156l^4r^2R^2-572l^2r^4R^2+292r^6R^2+48l^4rR^3-288l^2r^3R^3+816r^5R^3+4l^4R^4-248l^2r^2R^4+964r^4R^4-32l^2rR^5+288r^3R^5+64r^2R^6\right)\Big/\left(4R^2\left(l^4-14l^2r^2+r^4-8l^2rR+8r^3R+16r^2R^2\right)\right)\Big\}$$

$$\Big\{\text{X52, ORTHOCENTER OF ORTHIC TRIANGLE, X100, ANTICOMPLEMENT OF FEUERBACH POINT},$$
$$\frac{2l^4r-28l^2r^3+2r^5-3l^4R-6l^2r^2R+13r^4R+32l^2rR^2+16r^3R^2+4l^2R^3-20r^2R^3-8rR^4-4R^5}{4(2r-R)R^2}\Big\}$$

$$\Big\{\text{X53, SYMMEDIAN POINT OF ORTHIC TRIANGLE, X54, KosnitaPoint},$$
$$\left(8l^{12}r^2-104l^{10}r^4+400l^8r^6-400l^6r^8+104l^4r^{10}-8l^2r^{12}-160l^{10}r^3R+1408l^8r^5R-3008l^6r^7R+1408l^4r^9R-160l^2r^{11}R-116l^{10}r^2R^2+2128l^8r^4R^2-8824l^6r^6R^2+7760l^4r^8R^2-1396l^2r^{10}R^2+1856l^8r^3R^3-13760l^6r^5R^3+22976l^4r^7R^3-6976l^2r^9R^3-l^{10}R^4+737l^8r^2R^4-13630l^6r^4R^4+41150l^4r^6R^4-22113l^2r^8R^4+r^{10}R^4+20l^8rR^5-8864l^6r^3R^5+48536l^4r^5R^5-46752l^2r^7R^5+20r^9R^5+12l^8R^6-2844l^6r^2R^6+40064l^4r^4R^6-67996l^2r^6R^6+172r^8R^6-192l^6rR^7+22304l^4r^3R^7-69792l^2r^5R^7+832r^7R^7-48l^6R^8+6704l^4r^2R^8-51312l^2r^4R^8+2480r^6R^8+576l^4rR^9-25856l^2r^3R^9+4672r^5R^9+64l^4R^{10}-7232l^2r^2R^{10}+5440r^4R^{10}-512l^2rR^{11}+3584r^3R^{11}+1024r^2R^{12}\right)\Big/$$
$$\left(\left(2l^2-2r^2-8rR-5R^2\right)^2\left(l^4-6l^2r^2+r^4-8l^2rR+8r^3R-4l^2R^2+20r^2R^2+16rR^3\right)^2\right)\Big\}$$

$$\Big\{\text{X53, SYMMEDIAN POINT OF ORTHIC TRIANGLE, X55, INSIMILICENTER(CIRCUMCIRCLE, INCIRCLE)},$$
$$-\Big(\Big(r^2\Big(-4l^8r^2+28l^6r^4-28l^4r^6+4l^2r^8-4l^8rR+84l^6r^3R-236l^4r^5R+60l^2r^7R-3l^8R^2+132l^6r^2R^2-702l^4r^4R^2+364l^2r^6R^2+r^8R^2+84l^6rR^3-964l^4r^3R^3+1116l^2r^5R^3+20r^7R^3+20l^6R^4-736l^4r^2R^4+1764l^2r^4R^4+168r^6R^4-288l^4rR^5+1248l^2r^3R^5+768r^5R^5-16l^4R^6+128l^2r^2R^6+2064r^4R^6-192l^2rR^7+3264r^3R^7-64l^2R^8+2816r^2R^8+1024rR^9\Big)\Big)\Big/$$
$$\left((r+R)^2\left(l^4-6l^2r^2+r^4-8l^2rR+8r^3R-4l^2R^2+20r^2R^2+16rR^3\right)^2\right)\Big)\Big\}$$

{X53, SYMMEDIAN POINT OF ORTHIC TRIANGLE, X56, EXSIMILICENTER(CIRCUMCIRCLE, INCIRCLE),

$$\left(r^2 \left(4 l^8 r^2 - 28 l^6 r^4 + 28 l^4 r^6 - 4 l^2 r^8 - 4 l^8 r R - 12 l^6 r^3 R + 84 l^4 r^5 R - 36 l^2 r^7 R - l^8 R^2 + 4 l^6 r^2 R^2 + 158 l^4 r^4 R^2 - 148 l^2 r^6 R^2 + 3 r^8 R^2 + 60 l^6 r R^3 + 36 l^4 r^3 R^3 - 396 l^2 r^5 R^3 + 44 r^7 R^3 + 12 l^6 R^4 - 320 l^4 r^2 R^4 - 516 l^2 r^4 R^4 + 248 r^6 R^4 - 352 l^4 r R^5 + 288 l^2 r^3 R^5 + 640 r^5 R^5 - 48 l^4 R^6 + 1408 l^2 r^2 R^6 + 560 r^4 R^6 + 960 l^2 r R^7 - 704 r^3 R^7 + 64 l^2 R^8 - 1792 r^2 R^8 - 1024 r R^9\right)\right) \Big/ \left((r - R)^2 \left(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 4 l^2 R^2 + 20 r^2 R^2 + 16 r R^3\right)^2\right)\}$$

{X53, SYMMEDIAN POINT OF ORTHIC TRIANGLE, X57, ISOGONAL CONJUGATE OF X(9),

$$-\left(\left(4 r^2 \left(-2 l^8 r^2 + 12 l^6 r^4 - 2 l^4 r^6 + 5 l^8 r R - 15 l^6 r^3 R - 5 l^4 r^5 R - l^2 r^7 R + l^8 R^2 - 45 l^6 r^2 R^2 + 64 l^4 r^4 R^2 - 21 l^2 r^6 R^2 + r^8 R^2 - 72 l^6 r R^3 + 364 l^4 r^3 R^3 - 200 l^2 r^5 R^3 + 20 r^7 R^3 - 12 l^6 R^4 + 616 l^4 r^2 R^4 - 916 l^2 r^4 R^4 + 168 r^6 R^4 + 400 l^4 r R^5 - 2096 l^2 r^3 R^5 + 768 r^5 R^5 + 48 l^4 R^6 - 2320 l^2 r^2 R^6 + 2064 r^4 R^6 - 1024 l^2 r R^7 + 3264 r^3 R^7 - 64 l^2 R^8 + 2816 r^2 R^8 + 1024 r R^9\right)\right) \Big/ \left((r - 2 R)^2 \left(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 4 l^2 R^2 + 20 r^2 R^2 + 16 r R^3\right)^2\right)\right)\}$$

{X53, SYMMEDIAN POINT OF ORTHIC TRIANGLE, X58, ISOGONAL CONJUGATE OF X(10),

$$-\left(\left(4 r^4 \left(6 l^{10} - 56 l^8 r^2 + 132 l^6 r^4 - 56 l^4 r^6 + 6 l^2 r^8 - 80 l^8 r R + 432 l^6 r^3 R - 432 l^4 r^5 R + 80 l^2 r^7 R - 33 l^8 R^2 + 584 l^6 r^2 R^2 - 1294 l^4 r^4 R^2 + 456 l^2 r^6 R^2 - r^8 R^2 + 336 l^6 r R^3 - 1808 l^4 r^3 R^3 + 1424 l^2 r^5 R^3 - 16 r^7 R^3 + 40 l^6 R^4 - 1208 l^4 r^2 R^4 + 2552 l^2 r^4 R^4 - 104 r^6 R^4 - 352 l^4 r R^5 + 2496 l^2 r^3 R^5 - 352 r^5 R^5 - 16 l^4 R^6 + 1120 l^2 r^2 R^6 - 656 r^4 R^6 + 128 l^2 r R^7 - 640 r^3 R^7 - 256 r^2 R^8\right)\right) \Big/ \left(\left(l^2 - 3 r^2 - 4 r R\right)^2 \left(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 4 l^2 R^2 + 20 r^2 R^2 + 16 r R^3\right)^2\right)\right)\}$$

{X53, SYMMEDIAN POINT OF ORTHIC TRIANGLE, X59, ISOGONAL CONJUGATE OF X(11),

$$-\left(\left(r^2 \left(-4 l^{12} r + 52 l^{10} r^3 - 200 l^8 r^5 + 200 l^6 r^7 - 52 l^4 r^9 + 4 l^2 r^{11} + 76 l^{10} r^2 R - 704 l^8 r^4 R + 1656 l^6 r^6 R - 800 l^4 r^8 R + 92 l^2 r^{10} R + 72 l^{10} r R^2 - 1192 l^8 r^3 R^2 + 5160 l^6 r^5 R^2 - 4952 l^4 r^7 R^2 + 912 l^2 r^9 R^2 + 5 l^{10} R^3 - 1225 l^8 r^2 R^3 + 8702 l^6 r^4 R^3 - 16182 l^4 r^6 R^3 + 5117 l^2 r^8 R^3 - r^{10} R^3 - 652 l^8 r R^4 + 10504 l^6 r^3 R^4 - 31848 l^4 r^5 R^4 + 18056 l^2 r^7 R^4 - 28 r^9 R^4 - 72 l^8 R^5 + 8676 l^6 r^2 R^5 - 43336 l^4 r^4 R^5 + 42692 l^2 r^6 R^5 - 344 r^8 R^5 + 3552 l^6 r R^6 - 45344 l^4 r^3 R^6 + 72128 l^2 r^5 R^6 - 2432 r^7 R^6 + 400 l^6 R^7 - 32528 l^4 r^2 R^7 + 93520 l^2 r^4 R^7 - 10896 r^6 R^7 - 11584 l^4 r R^8 + 94080 l^2 r^3 R^8 - 32064 r^5 R^8 - 1024 l^4 R^9 + 63808 l^2 r^2 R^9 - 61952 r^4 R^9 + 20992 l^2 r R^{10} - 75776 r^3 R^{10} + 1024 l^2 R^{11} - 53248 r^2 R^{11} - 16384 r R^{12}\right)\right) \Big/ \left((2 r - R) \left(-l^2 + r^2 + 5 r R + 4 R^2\right)^2 \left(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 4 l^2 R^2 + 20 r^2 R^2 + 16 r R^3\right)^2\right)\right)\}$$

{X53, SYMMEDIAN POINT OF ORTHIC TRIANGLE, X60, ISOGONAL CONJUGATE OF X(12),

$$\left(r^2 \left(8 l^{12} r^2 - 104 l^{10} r^4 + 400 l^8 r^6 - 400 l^6 r^8 + 104 l^4 r^{10} - 8 l^2 r^{12} + 4 l^{12} r R - 220 l^{10} r^3 R + 1608 l^8 r^5 R - 2904 l^6 r^7 R + 1268 l^4 r^9 R - 140 l^2 r^{11} R - 180 l^{10} r^2 R^2 + 2640 l^8 r^4 R^2 - 8824 l^6 r^6 R^2 + 6480 l^4 r^8 R^2 - 1076 l^2 r^{10} R^2 - 30 l^{10} r R^3 + 2198 l^8 r^3 R^3 - 13932 l^6 r^5 R^3 + 18028 l^4 r^7 R^3 - 4726 l^2 r^9 R^3 - 2 r^{11} R^3 + l^{10} R^4 + 899 l^8 r^2 R^4 - 12154 l^6 r^4 R^4 + 29634 l^4 r^6 R^4 - 12967 l^2 r^8 R^4 - 37 r^{10} R^4 + 28 l^8 r R^5 - 5968 l^6 r^3 R^5 + 29128 l^4 r^5 R^5 - 22896 l^2 r^7 R^5 - 292 r^9 R^5 - 8 l^8 R^6 - 1420 l^6 r^2 R^6 + 16808 l^4 r^4 R^6 - 25932 l^2 r^6 R^6 - 1288 r^8 R^6 + 160 l^6 r R^7 + 5760 l^4 r^3 R^7 - 18432 l^2 r^5 R^7 - 3488 r^7 R^7 + 16 l^6 R^8 + 1072 l^4 r^2 R^8 - 8368 l^2 r^4 R^8 - 5968 r^6 R^8 - 192 l^4 r R^9 - 3072 l^2 r^3 R^9 - 6336 r^5 R^9 - 960 l^2 r^2 R^{10} - 3840 r^4 R^{10} - 1024 r^3 R^{11}\right)\right) \Big/ \left(\left(2 l^2 r - 2 r^3 + l^2 R - 7 r^2 R - 7 r R^2\right)^2 \left(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 4 l^2 R^2 + 20 r^2 R^2 + 16 r R^3\right)^2\right)\}$$

{X53, SYMMEDIAN POINT OF ORTHIC TRIANGLE, X61, ISOGONAL CONJUGATE OF X(17),

$$\left(12 l^2 r^2 \left(2 \sqrt{3}\, l^9 r - 8 l^8 r^2 - 24 \sqrt{3}\, l^7 r^3 + 56 l^6 r^4 + 76 \sqrt{3}\, l^5 r^5 - 56 l^4 r^6 - 24 \sqrt{3}\, l^3 r^7 + 8 l^2 r^8 + 2 \sqrt{3}\, l r^9 - 32 \sqrt{3}\, l^7 r^2 R + 96 l^6 r^3 R + 224 \sqrt{3}\, l^5 r^4 R - 320 l^4 r^5 R - 224 \sqrt{3}\, l^3 r^6 R + 96 l^2 r^7 R + 32 \sqrt{3}\, l r^8 R + l^8 R^2 - 16 \sqrt{3}\, l^7 r R^2 - 8 l^6 r^2 R^2 + 256 \sqrt{3}\, l^5 r^3 R^2 - 434 l^4 r^4 R^2 - 704 \sqrt{3}\, l^3 r^5 R^2 + 376 l^2 r^6 R^2 + 208 \sqrt{3}\, l r^7 R^2 + r^8 R^2 - 16 l^6 r R^3 + 192 \sqrt{3}\, l^5 r^2 R^3 + 80 l^4 r^3 R^3 - 960 \sqrt{3}\, l^3 r^4 R^3 + 432 l^2 r^5 R^3 + 704 \sqrt{3}\, l r^6 R^3 + 16 r^7 R^3 - 8 l^6 R^4 + 32 \sqrt{3}\, l^5 r R^4 + 312 l^4 r^2 R^4 - 640 \sqrt{3}\, l^3 r^3 R^4 - 472 l^2 r^4 R^4 + 1312 \sqrt{3}\, l r^5 R^4 + 104 r^6 R^4 + 96 l^4 r R^5 - 256 \sqrt{3}\, l^3 r^2 R^5 - 1216 l^2 r^3 R^5 + 1280 \sqrt{3}\, l r^4 R^5 + 352 r^5 R^5 + 16 l^4 R^6 - 608 l^2 r^2 R^6 + 512 \sqrt{3}\, l r^3 R^6 + 656 r^4 R^6 - 128 l^2 r R^7 + 640 r^3 R^7 + 256 r^2 R^8\right)\right) \Big/ \left(\left(3 l^2 + 2 \sqrt{3}\, l r - 3 r^2 - 12 r R\right)^2 \left(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 4 l^2 R^2 + 20 r^2 R^2 + 16 r R^3\right)^2\right)\}$$

$$\{X53,\ \text{SYMMEDIAN POINT OF ORTHIC TRIANGLE},\ X62,\ \text{ISOGONAL CONJUGATE OF } X(18),$$
$$-\Big(\Big(12 l^2 r^2 \big(2\sqrt{3}\, l^9 r + 8 l^8 r^2 - 24\sqrt{3}\, l^7 r^3 - 56 l^6 r^4 + 76\sqrt{3}\, l^5 r^5 + 56 l^4 r^6 - 24\sqrt{3}\, l^3 r^7 - 8 l^2 r^8 +$$
$$2\sqrt{3}\, l r^9 - 32\sqrt{3}\, l^7 r^2 R - 96 l^6 r^3 R + 224\sqrt{3}\, l^5 r^4 R + 320 l^4 r^5 R - 224\sqrt{3}\, l^3 r^6 R -$$
$$96 l^2 r^7 R + 32\sqrt{3}\, l r^8 R - l^8 R^2 - 16\sqrt{3}\, l^7 r R^2 + 8 l^6 r^2 R^2 + 256\sqrt{3}\, l^5 r^3 R^2 +$$
$$434 l^4 r^4 R^2 - 704\sqrt{3}\, l^3 r^5 R^2 - 376 l^2 r^6 R^2 + 208\sqrt{3}\, l r^7 R^2 - r^8 R^2 + 16 l^6 r R^3 +$$
$$192\sqrt{3}\, l^5 r^2 R^3 - 80 l^4 r^3 R^3 - 960\sqrt{3}\, l^3 r^4 R^3 - 432 l^2 r^5 R^3 + 704\sqrt{3}\, l r^6 R^3 - 16 r^7 R^3 +$$
$$8 l^6 R^4 + 32\sqrt{3}\, l^5 r R^4 - 312 l^4 r^2 R^4 - 640\sqrt{3}\, l^3 r^3 R^4 + 472 l^2 r^4 R^4 + 1312\sqrt{3}\, l r^5 R^4 -$$
$$104 r^6 R^4 - 96 l^4 r R^5 - 256\sqrt{3}\, l^3 r^2 R^5 + 1216 l^2 r^3 R^5 + 1280\sqrt{3}\, l r^4 R^5 - 352 r^5 R^5 -$$
$$16 l^4 R^6 + 608 l^2 r^2 R^6 + 512\sqrt{3}\, l r^3 R^6 - 656 r^4 R^6 + 128 l^2 r R^7 - 640 r^3 R^7 - 256 r^2 R^8\big)\Big)\Big/$$
$$\Big(\big(3 l^2 - 2\sqrt{3}\, l r - 3 r^2 - 12 r R\big)^2 \big(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 4 l^2 R^2 + 20 r^2 R^2 + 16 r R^3\big)^2\Big)\Big)\}$$

$$\{X53,\ \text{SYMMEDIAN POINT OF ORTHIC TRIANGLE},\ X63,\ \text{ISOGONAL CONJUGATE OF } X(19),$$
$$-\Big(\big(-8 l^8 r^4 + 48 l^6 r^6 - 8 l^4 r^8 - 2 l^{10} r R + 16 l^8 r^3 R + 36 l^6 r^5 R - 48 l^4 r^7 R - 2 l^2 r^9 R - l^{10} R^2 + 53 l^8 r^2 R^2 -$$
$$222 l^6 r^4 R^2 + 82 l^4 r^6 R^2 - 41 l^2 r^8 R^2 + r^{10} R^2 + 44 l^8 r R^3 - 576 l^6 r^3 R^3 + 1072 l^4 r^5 R^3 -$$
$$368 l^2 r^7 R^3 + 20 r^9 R^3 + 8 l^8 R^4 - 564 l^6 r^2 R^4 + 2648 l^4 r^4 R^4 - 1684 l^2 r^6 R^4 + 168 r^8 R^4 -$$
$$224 l^6 r R^5 + 2976 l^4 r^3 R^5 - 4160 l^2 r^5 R^5 + 768 r^7 R^5 - 16 l^6 R^6 + 1616 l^4 r^2 R^6 - 5584 l^2 r^4 R^6 +$$
$$2064 r^6 R^6 + 320 l^4 r R^7 - 3840 l^2 r^3 R^7 + 3264 r^5 R^7 - 1088 l^2 r^2 R^8 + 2816 r^4 R^8 + 1024 r^3 R^9\big)\Big/$$
$$\Big((r + R)^2 \big(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 4 l^2 R^2 + 20 r^2 R^2 + 16 r R^3\big)^2\Big)\Big)\}$$

$$\{X53,\ \text{SYMMEDIAN POINT OF ORTHIC TRIANGLE},\ X64,\ \text{ISOGONAL CONJUGATE OF } X(20),$$
$$\Big(4\big(2 l^{12} r^2 - 14 l^{10} r^4 + 16 l^8 r^6 - 16 l^6 r^8 + 14 l^4 r^{10} - 2 l^2 r^{12} - 40 l^{10} r^3 R + 208 l^8 r^5 R - 272 l^6 r^7 R +$$
$$208 l^4 r^9 R - 40 l^2 r^{11} R + 3 l^{12} R^2 - 86 l^{10} r^2 R^2 + 781 l^8 r^4 R^2 - 1828 l^6 r^6 R^2 + 1613 l^4 r^8 R^2 -$$
$$406 l^2 r^{10} R^2 + 3 r^{12} R^2 - 72 l^{10} r R^3 + 1448 l^8 r^3 R^3 - 6416 l^6 r^5 R^3 + 7952 l^4 r^7 R^3 -$$
$$2728 l^2 r^9 R^3 + 72 r^{11} R^3 - 52 l^{10} R^4 + 1652 l^8 r^2 R^4 - 13000 l^6 r^4 R^4 + 25832 l^4 r^6 R^4 -$$
$$12900 l^2 r^8 R^4 + 772 r^{10} R^4 + 1040 l^8 r R^5 - 16064 l^6 r^3 R^5 + 55520 l^4 r^5 R^5 - 43200 l^2 r^7 R^5 +$$
$$4880 r^9 R^5 + 336 l^8 R^6 - 12336 l^6 r^2 R^6 + 78272 l^4 r^4 R^6 - 101680 l^2 r^6 R^6 + 20176 r^8 R^6 -$$
$$5376 l^6 r R^7 + 70784 l^4 r^3 R^7 - 165504 l^2 r^5 R^7 + 57088 r^7 R^7 - 960 l^6 R^8 + 39104 l^4 r^2 R^8 -$$
$$180672 l^2 r^4 R^8 + 112064 r^6 R^8 + 11520 l^4 r R^9 - 124928 l^2 r^3 R^9 + 150784 r^5 R^9 +$$
$$1024 l^4 R^{10} - 48896 l^2 r^2 R^{10} + 133120 r^4 R^{10} - 8192 l^2 r R^{11} + 69632 r^3 R^{11} + 16384 r^2 R^{12}\big)\Big)\Big/$$
$$\Big((l - r - 2 R)^2 (l + r + 2 R)^2 \big(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 4 l^2 R^2 + 20 r^2 R^2 + 16 r R^3\big)^2\Big)\}$$

$$\{X53,\ \text{SYMMEDIAN POINT OF ORTHIC TRIANGLE},\ X65,\ \text{ORTHOCENTER OF THE INTOUCH TRIANGLE},$$
$$-\Big(\big(r^2 \big(6 l^8 r - 44 l^6 r^3 + 56 l^4 r^5 - 20 l^2 r^7 + 2 r^9 + l^8 R - 88 l^6 r^2 R + 338 l^4 r^4 R - 240 l^2 r^6 R +$$
$$37 r^8 R - 84 l^6 r R^2 + 828 l^4 r^3 R^2 - 1164 l^2 r^5 R^2 + 292 r^7 R^2 - 12 l^6 R^3 + 928 l^4 r^2 R^3 -$$
$$2972 l^2 r^4 R^3 + 1288 r^6 R^3 + 448 l^4 r R^4 - 4256 l^2 r^3 R^4 + 3488 r^5 R^4 + 48 l^4 R^5 -$$
$$3264 l^2 r^2 R^5 + 5968 r^4 R^5 - 1088 l^2 r R^6 + 6336 r^3 R^6 - 64 l^2 R^7 + 3840 r^2 R^7 + 1024 r R^8\big)\Big)\Big/$$
$$\Big(R \big(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 4 l^2 R^2 + 20 r^2 R^2 + 16 r R^3\big)^2\Big)\Big)\}$$

$$\{X53,\ \text{SYMMEDIAN POINT OF ORTHIC TRIANGLE},\ X66,\ \text{ISOGONAL CONJUGATE OF } X(22),$$
$$\Big(4 l^{16} r^2 - 44 l^{14} r^4 + 164 l^{12} r^6 - 300 l^{10} r^8 + 300 l^8 r^{10} - 164 l^6 r^{12} + 44 l^4 r^{14} - 4 l^2 r^{16} - 112 l^{14} r^3 R +$$
$$992 l^{12} r^5 R - 2960 l^{10} r^7 R + 4160 l^8 r^9 R - 2960 l^6 r^{11} R + 992 l^4 r^{13} R - 112 l^2 r^{15} R - l^{16} R^2 -$$
$$88 l^{14} r^2 R^2 + 2196 l^{12} r^4 R^2 - 11944 l^{10} r^6 R^2 + 24922 l^8 r^8 R^2 - 23784 l^6 r^{10} R^2 + 10132 l^4 r^{12} R^2 -$$
$$1432 l^2 r^{14} R^2 - r^{16} R^2 + 32 l^{14} r R^3 + 2080 l^{12} r^3 R^3 - 24672 l^{10} r^5 R^3 + 83104 l^8 r^7 R^3 - 111264 l^6 r^9 R^3 +$$
$$61792 l^4 r^{11} R^3 - 11040 l^2 r^{13} R^3 - 32 r^{15} R^3 + 12 l^{14} R^4 + 380 l^{12} r^2 R^4 - 26708 l^{10} r^4 R^4 +$$
$$165820 l^8 r^6 R^4 - 332028 l^6 r^8 R^4 + 248980 l^4 r^{10} R^4 - 57020 l^2 r^{12} R^4 - 460 r^{14} R^4 - 336 l^{12} r R^5 -$$
$$12640 l^{10} r^3 R^5 + 197456 l^8 r^5 R^5 - 650560 l^6 r^7 R^5 + 691536 l^4 r^9 R^5 - 207200 l^2 r^{11} R^5 -$$
$$3920 r^{13} R^5 - 48 l^{12} R^6 + 176 l^{10} r^2 R^6 + 129200 l^8 r^4 R^6 - 828384 l^6 r^6 R^6 + 1339376 l^4 r^8 R^6 -$$
$$541264 l^2 r^{10} R^6 - 22000 r^{12} R^6 + 1152 l^{10} r R^7 + 33664 l^8 r^3 R^7 - 650240 l^6 r^5 R^7 + 1786368 l^4 r^7 R^7 -$$
$$1020032 l^2 r^9 R^7 - 85376 r^{11} R^7 + 64 l^{10} R^8 - 3008 l^8 r^2 R^8 - 274688 l^6 r^4 R^8 + 1575168 l^4 r^6 R^8 -$$
$$1368896 l^2 r^8 R^8 - 233792 r^{10} R^8 - 1280 l^8 r R^9 - 39424 l^6 r^3 R^9 + 841216 l^4 r^5 R^9 - 1264128 l^2 r^7 R^9 -$$
$$451840 r^9 R^9 + 3328 l^6 r^2 R^{10} + 222720 l^4 r^4 R^{10} - 748288 l^2 r^6 R^{10} - 604160 r^8 R^{10} + 14336 l^4 r^3 R^{11} -$$
$$243712 l^2 r^5 R^{11} - 532480 r^7 R^{11} - 28672 l^2 r^4 R^{12} - 278528 r^6 R^{12} - 65536 r^5 R^{13}\Big)\Big/\Big((l - r - 2 R)^2$$
$$(l + r + 2 R)^2 \big(l^2 - r^2 - 4 r R\big)^2 \big(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 4 l^2 R^2 + 20 r^2 R^2 + 16 r R^3\big)^2\Big)\}$$

{X53, SYMMEDIAN POINT OF ORTHIC TRIANGLE, X67, ISOGONAL CONJUGATE OF X(23),

$$\left(l^{16}-68 l^{12} r^4+256 l^{10} r^6-378 l^8 r^8+256 l^6 r^{10}-68 l^4 r^{12}+r^{16}-32 l^{14} r R+32 l^{12} r^3 R+1056 l^{10} r^5 R-3104 l^8 r^7 R+3104 l^6 r^9 R-1056 l^4 r^{11} R-32 l^2 r^{13} R+32 r^{15} R-12 l^{14} R^2+276 l^{12} r^2 R^2+1268 l^{10} r^4 R^2-11308 l^8 r^6 R^2+17516 l^6 r^8 R^2-7604 l^4 r^{10} R^2-596 l^2 r^{12} R^2+460 r^{14} R^2+336 l^{12} r R^3-480 l^{10} r^3 R^3-19856 l^8 r^5 R^3+57664 l^6 r^7 R^3-34704 l^4 r^9 R^3-4576 l^2 r^{11} R^3+3920 r^{13} R^3+48 l^{12} R^4-2224 l^{10} r^2 R^4-15536 l^8 r^4 R^4+113312 l^6 r^6 R^4-109808 l^4 r^8 R^4-18352 l^2 r^{10} R^4+22000 r^{12} R^4-1152 l^{10} r R^5-896 l^8 r^3 R^5+128000 l^6 r^5 R^5-237056 l^4 r^7 R^5-38784 l^2 r^9 R^5+85376 r^{11} R^5-64 l^{10} R^6+5312 l^8 r^2 R^6+73472 l^6 r^4 R^6-329472 l^4 r^6 R^6-30144 l^2 r^8 R^6+233792 r^{10} R^6+1280 l^8 r R^7+11776 l^6 r^3 R^7-270848 l^4 r^5 R^7+40448 l^2 r^7 R^7+451840 r^9 R^7-3328 l^6 r^2 R^8-112128 l^4 r^4 R^8+113408 l^2 r^6 R^8+604160 r^8 R^8-14336 l^4 r^3 R^9+96256 l^2 r^5 R^9+532480 r^7 R^9+28672 l^2 r^4 R^{10}+278528 r^6 R^{10}+65536 r^5 R^{11}\right) \Big/ \left(\left(l^2-r^2-4 r R\right)^2 \left(2 l^2-2 r^2-8 r R-9 R^2\right) \left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-4 l^2 R^2+20 r^2 R^2+16 r R^3\right)^2\right)\}$$

{X53, SYMMEDIAN POINT OF ORTHIC TRIANGLE, X68, PRASOLOV POINT,

$$\left(4 l^{12} r^2-36 l^{10} r^4+88 l^8 r^6-88 l^6 r^8+36 l^4 r^{10}-4 l^2 r^{12}-80 l^{10} r^3 R+512 l^8 r^5 R-864 l^6 r^7 R+512 l^4 r^9 R-80 l^2 r^{11} R+l^{12} R^2-102 l^{10} r^2 R^2+1311 l^8 r^4 R^2-3892 l^6 r^6 R^2+3359 l^4 r^8 R^2-742 l^2 r^{10} R^2+r^{12} R^2-24 l^{10} r R^3+1656 l^8 r^3 R^3-9584 l^6 r^5 R^3+13168 l^4 r^7 R^3-4216 l^2 r^9 R^3+24 r^{11} R^3-12 l^{10} R^4+1068 l^8 r^2 R^4-13816 l^6 r^4 R^4+32984 l^4 r^6 R^4-16124 l^2 r^8 R^4+252 r^{10} R^4+240 l^8 r R^5-11456 l^6 r^3 R^5+53152 l^4 r^5 R^5-42688 l^2 r^7 R^5+1520 r^9 R^5+52 l^8 R^6-4912 l^6 r^2 R^6+53944 l^4 r^4 R^6-77872 l^2 r^6 R^6+5812 r^8 R^6-832 l^6 r R^7+32448 l^4 r^3 R^7-95424 l^2 r^5 R^7+14656 r^7 R^7-96 l^6 R^8+10016 l^4 r^2 R^8-74912 l^2 r^4 R^8+24544 r^6 R^8+1152 l^4 r R^9-34560 l^2 r^3 R^9+26752 r^5 R^9+64 l^4 R^{10}-7808 l^2 r^2 R^{10}+17984 r^4 R^{10}-512 l^2 r R^{11}+6656 r^3 R^{11}+1024 r^2 R^{12}\right) \Big/ \left((l-r-2 R)^2 (l+r+2 R)^2 \left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-4 l^2 R^2+20 r^2 R^2+16 r R^3\right)^2\right)\}$$

{X53, SYMMEDIAN POINT OF ORTHIC TRIANGLE,
X69, SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE,

$$\left(l^{14}-3 l^{12} r^2-31 l^{10} r^4+101 l^8 r^6-101 l^6 r^8+31 l^4 r^{10}+3 l^2 r^{12}-r^{14}-28 l^{12} r R+88 l^{10} r^3 R+284 l^8 r^5 R-688 l^6 r^7 R+284 l^4 r^9 R+88 l^2 r^{11} R-28 r^{13} R-8 l^{12} R^2+212 l^{10} r^2 R^2+296 l^8 r^4 R^2-3272 l^6 r^6 R^2+1432 l^4 r^8 R^2+916 l^2 r^{10} R^2-344 r^{12} R^2+192 l^{10} r R^3-448 l^8 r^3 R^3-6080 l^6 r^5 R^3+6208 l^4 r^7 R^3+4608 l^2 r^9 R^3-2432 r^{11} R^3+16 l^{10} R^4-944 l^8 r^2 R^4-5184 l^6 r^4 R^4+17344 l^4 r^6 R^4+11952 l^2 r^8 R^4-10896 r^{10} R^4-320 l^8 r R^5-1152 l^6 r^3 R^5+24448 l^4 r^5 R^5+14208 l^2 r^7 R^5-32064 r^9 R^5+832 l^6 r^2 R^6+15744 l^4 r^4 R^6+1344 l^2 r^6 R^6-61952 r^8 R^6+3584 l^4 r^3 R^7-11776 l^2 r^5 R^7-75776 r^7 R^7-7168 l^2 r^4 R^8-53248 r^6 R^8-16384 r^5 R^9\right) \Big/ \left(\left(l^2-r^2-4 r R\right)^2 \left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-4 l^2 R^2+20 r^2 R^2+16 r R^3\right)^2\right)\}$$

{X53, SYMMEDIAN POINT OF ORTHIC TRIANGLE, X70, ISOGONAL CONJUGATE OF X(26),

$$\left(4 l^{16} r^2-44 l^{14} r^4+164 l^{12} r^6-300 l^{10} r^8+300 l^8 r^{10}-164 l^6 r^{12}+44 l^4 r^{14}-4 l^2 r^{16}-112 l^{14} r^3 R+992 l^{12} r^5 R-2960 l^{10} r^7 R+4160 l^8 r^9 R-2960 l^6 r^{11} R+992 l^4 r^{13} R-112 l^2 r^{15} R-112 l^{14} r^2 R^2+2368 l^{12} r^4 R^2-12432 l^{10} r^6 R^2+25600 l^8 r^8 R^2-24272 l^6 r^{10} R^2+10304 l^4 r^{12} R^2-1456 l^2 r^{14} R^2+2688 l^{12} r^3 R^3-28032 l^{10} r^5 R^3+90368 l^8 r^7 R^3-118528 l^6 r^9 R^3+65152 l^4 r^{11} R^3-11648 l^2 r^{13} R^3-l^{14} R^4+1239 l^{12} r^2 R^4-35861 l^{10} r^4 R^4+198419 l^8 r^6 R^4-379155 l^6 r^8 R^4+278293 l^4 r^{10} R^4-63959 l^2 r^{12} R^4+r^{14} R^4+28 l^{12} r R^5-24808 l^{10} r^3 R^5+275940 l^8 r^5 R^5-823856 l^6 r^7 R^5+841188 l^4 r^9 R^5-254184 l^2 r^{11} R^5+28 r^{13} R^5+14 l^{12} R^6-7336 l^{10} r^2 R^6+236722 l^8 r^4 R^6-1222032 l^6 r^6 R^6+1832002 l^4 r^8 R^6-750568 l^2 r^{10} R^6+350 r^{12} R^6-336 l^{10} r R^7+114576 l^8 r^3 R^7-1213152 l^6 r^5 R^7+2873440 l^4 r^7 R^7-1663440 l^2 r^9 R^7+2576 r^{11} R^7-73 l^{10} R^8+25017 l^8 r^2 R^8-766910 l^6 r^4 R^8+3193214 l^4 r^6 R^8-2761625 l^2 r^8 R^8+12393 r^{10} R^8+1460 l^8 r R^9-279264 l^6 r^3 R^9+2429400 l^4 r^5 R^9-3390176 l^2 r^7 R^9+40884 r^9 R^9+172 l^8 R^{10}-47932 l^6 r^2 R^{10}+1191552 l^4 r^4 R^{10}-2999996 l^2 r^6 R^{10}+94284 r^8 R^{10}-2752 l^6 r R^{11}+339488 l^4 r^3 R^{11}-1834912 l^2 r^5 R^{11}+151872 r^7 R^{11}-176 l^6 R^{12}+46512 l^4 r^2 R^{12}-725488 l^2 r^4 R^{12}+167472 r^6 R^{12}+2112 l^4 r R^{13}-166144 l^2 r^3 R^{13}+120896 r^5 R^{13}+64 l^4 R^{14}-17984 l^2 r^2 R^{14}+52544 r^4 R^{14}-512 l^2 r R^{15}+11776 r^3 R^{15}+1024 r^2 R^{16}\right) \Big/ \left(\left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-4 l^2 R^2+20 r^2 R^2+16 r R^3\right)^2 \left(l^4-2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-6 l^2 R^2+22 r^2 R^2+24 r R^3+7 R^4\right)^2\right)\}$$

{X53, SYMMEDIAN POINT OF ORTHIC TRIANGLE, X71, ISOGONAL CONJUGATE OF X(27),

$$\left(4 l^4 \left(2 l^8 r^2 - 8 l^6 r^4 - 20 l^4 r^6 - 8 l^2 r^8 + 2 r^{10} - 8 l^6 r^3 R - 56 l^4 r^5 R - 24 l^2 r^7 R + 24 r^9 R + 3 l^8 R^2 - 44 l^6 r^2 R^2 + 46 l^4 r^4 R^2 + 108 l^2 r^6 R^2 + 79 r^8 R^2 - 52 l^6 r R^3 + 244 l^4 r^3 R^3 + 532 l^2 r^5 R^3 - 148 r^7 R^3 - 20 l^6 R^4 + 320 l^4 r^2 R^4 + 732 l^2 r^4 R^4 - 1672 r^6 R^4 + 224 l^4 r R^5 + 416 l^2 r^3 R^5 - 4736 r^5 R^5 + 16 l^4 R^6 + 256 l^2 r^2 R^6 - 6672 r^4 R^6 + 192 l^2 r R^7 - 5312 r^3 R^7 + 64 l^2 R^8 - 2816 r^2 R^8 - 1024 r R^9\right)\right) / \left(\left(l^2 + r^2 + 6 r R + 8 R^2\right)^2 \left(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 4 l^2 R^2 + 20 r^2 R^2 + 16 r R^3\right)^2\right)\}$$

{X53, SYMMEDIAN POINT OF ORTHIC TRIANGLE, X72, ISOGONAL CONJUGATE OF X(28),

$$-\left(\left(-l^{10} r + 9 l^8 r^3 - 30 l^6 r^5 + 70 l^4 r^7 - 17 l^2 r^9 + r^{11} - l^{10} R + 32 l^8 r^2 R - 198 l^6 r^4 R + 484 l^4 r^6 R - 225 l^2 r^8 R + 20 r^{10} R + 36 l^8 r R^2 - 440 l^6 r^3 R^2 + 1456 l^4 r^5 R^2 - 1224 l^2 r^7 R^2 + 172 r^9 R^2 + 8 l^8 R^3 - 428 l^6 r^2 R^3 + 2528 l^4 r^4 R^3 - 3580 l^2 r^6 R^3 + 832 r^8 R^3 - 208 l^6 r R^4 + 2608 l^4 r^3 R^4 - 6160 l^2 r^5 R^4 + 2480 r^7 R^4 - 16 l^6 R^5 + 1408 l^4 r^2 R^5 - 6384 l^2 r^4 R^5 + 4672 r^6 R^5 + 320 l^4 r R^6 - 3840 l^2 r^3 R^6 + 5440 r^5 R^6 - 1088 l^2 r^2 R^7 + 3584 r^4 R^7 + 1024 r^3 R^8\right) / \left(R \left(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 4 l^2 R^2 + 20 r^2 R^2 + 16 r R^3\right)^2\right)\right)\}$$

{X53, SYMMEDIAN POINT OF ORTHIC TRIANGLE, X73, CROSSPOINT OF INCENTER AND CIRCUMCENTER,

$$-\left(\left(4 r^2 \left(2 l^{10} r^2 - 8 l^8 r^4 - 20 l^6 r^6 - 8 l^4 r^8 + 2 l^2 r^{10} - 4 l^{10} r R + 8 l^8 r^3 R - 16 l^6 r^5 R - 8 l^4 r^7 R + 20 l^2 r^9 R + 41 l^8 r^2 R^2 - 4 l^6 r^4 R^2 - 6 l^4 r^6 R^2 + 100 l^2 r^8 R^2 - 3 r^{10} R^2 + 52 l^8 r R^3 - 332 l^6 r^3 R^3 - 156 l^4 r^5 R^3 + 428 l^2 r^7 R^3 - 56 r^9 R^3 + 4 l^8 R^4 - 620 l^6 r^2 R^4 + 312 l^4 r^4 R^4 + 1380 l^2 r^6 R^4 - 436 r^8 R^4 - 352 l^6 r R^5 + 2384 l^4 r^3 R^5 + 2080 l^2 r^5 R^5 - 1808 r^7 R^5 - 48 l^6 R^6 + 3376 l^4 r^2 R^6 - 1008 l^2 r^4 R^6 - 4112 r^6 R^6 + 1600 l^4 r R^7 - 7744 l^2 r^3 R^7 - 4096 r^5 R^7 + 192 l^4 R^8 - 9536 l^2 r^2 R^8 + 2368 r^4 R^8 - 4096 l^2 r R^9 + 11\,008 r^3 R^9 - 256 l^2 R^{10} + 11\,264 r^2 R^{10} + 4096 r R^{11}\right)\right) / \left(\left(l^2 + r^2 - 2 r R - 4 R^2\right)^2 \left(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 4 l^2 R^2 + 20 r^2 R^2 + 16 r R^3\right)^2\right)\right)\}$$

{X53, SYMMEDIAN POINT OF ORTHIC TRIANGLE, X74, ISOGONAL CONJUGATE OF EULER INFINITY POINT,

$$\left(12 l^{10} r^2 - 80 l^8 r^4 + 72 l^6 r^6 - 80 l^4 r^8 + 12 l^2 r^{10} - 192 l^8 r^3 R + 832 l^6 r^5 R - 832 l^4 r^7 R + 192 l^2 r^9 R + 9 l^{10} R^2 - 321 l^8 r^2 R^2 + 2678 l^6 r^4 R^2 - 4342 l^4 r^6 R^2 + 1473 l^2 r^8 R^2 - 9 r^{10} R^2 - 180 l^8 r R^3 + 4032 l^6 r^3 R^3 - 13\,208 l^4 r^5 R^3 + 7104 l^2 r^7 R^3 - 180 r^9 R^3 - 108 l^8 R^4 + 3612 l^6 r^2 R^4 - 23\,616 l^4 r^4 R^4 + 22\,812 l^2 r^6 R^4 - 1548 r^8 R^4 + 1728 l^6 r R^5 - 24\,864 l^4 r^3 R^5 + 48\,288 l^2 r^5 R^5 - 7488 r^7 R^5 + 432 l^6 R^6 - 15\,408 l^4 r^2 R^6 + 65\,136 l^2 r^4 R^6 - 22\,320 r^6 R^6 - 5184 l^4 r R^7 + 52\,992 l^2 r^3 R^7 - 42\,048 r^5 R^7 - 576 l^4 R^8 + 23\,616 l^2 r^2 R^8 - 48\,960 r^4 R^8 + 4608 l^2 r R^9 - 32\,256 r^3 R^9 - 9216 r^2 R^{10}\right) / \left(\left(2 l^2 - 2 r^2 - 8 r R - 9 R^2\right) \left(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 4 l^2 R^2 + 20 r^2 R^2 + 16 r R^3\right)^2\right)\}$$

{X53, SYMMEDIAN POINT OF ORTHIC TRIANGLE, X75, ISOTOMIC CONJUGATE OF INCENTER,

$$\left(l^{14} - 7 l^{12} r^2 + 5 l^{10} r^4 + 13 l^8 r^6 - 13 l^6 r^8 - 5 l^4 r^{10} + 7 l^2 r^{12} - r^{14} - 28 l^{12} r R + 216 l^{10} r^3 R - 580 l^8 r^5 R + 624 l^6 r^7 R - 388 l^4 r^9 R + 184 l^2 r^{11} R - 28 r^{13} R - 8 l^{12} R^2 + 276 l^{10} r^2 R^2 - 1576 l^8 r^4 R^2 + 3448 l^6 r^6 R^2 - 3704 l^4 r^8 R^2 + 1908 l^2 r^{10} R^2 - 344 r^{12} R^2 + 192 l^{10} r R^3 - 2176 l^8 r^3 R^3 + 8384 l^6 r^5 R^3 - 14\,336 l^4 r^7 R^3 + 10\,368 l^2 r^9 R^3 - 2432 r^{11} R^3 + 16 l^{10} R^4 - 1264 l^8 r^2 R^4 + 9984 l^6 r^4 R^4 - 28\,544 l^4 r^6 R^4 + 32\,496 l^2 r^8 R^4 - 10\,896 r^{10} R^4 - 320 l^8 r R^5 + 6016 l^6 r^3 R^5 - 32\,384 l^4 r^5 R^5 + 60\,288 l^2 r^7 R^5 - 32\,064 r^9 R^5 + 1344 l^6 r^2 R^6 - 20\,352 l^4 r^4 R^6 + 64\,832 l^2 r^6 R^6 - 61\,952 r^8 R^6 - 5632 l^4 r^3 R^7 + 37\,376 l^2 r^5 R^7 - 75\,776 r^7 R^7 + 9216 l^2 r^4 R^8 - 53\,248 r^6 R^8 - 16\,384 r^5 R^9\right) / \left(\left(l^2 + r^2 + 4 r R\right)^2 \left(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 4 l^2 R^2 + 20 r^2 R^2 + 16 r R^3\right)^2\right)\}$$

{X53, SYMMEDIAN POINT OF ORTHIC TRIANGLE, X76, 3rd BROCARD POINT,

$$\left(l^{18}-5 l^{16} r^2-8 l^{14} r^4+16 l^{12} r^6+18 l^{10} r^8-18 l^8 r^{10}-16 l^6 r^{12}+8 l^4 r^{14}+5 l^2 r^{16}-r^{18}-36 l^{16} r R+176 l^{14} r^3 R-16 l^{12} r^5 R-176 l^{10} r^7 R+104 l^8 r^9 R-176 l^6 r^{11} R-16 l^4 r^{13} R+176 l^2 r^{15} R-36 r^{17} R-8 l^{16} R^2+468 l^{14} r^2 R^2-1464 l^{12} r^4 R^2-1172 l^{10} r^6 R^2+3648 l^8 r^8 R^2-1876 l^6 r^{10} R^2-1592 l^4 r^{12} R^2+2580 l^2 r^{14} R^2-584 r^{16} R^2+256 l^{14} r R^3-3040 l^{12} r^3 R^3+1376 l^{10} r^5 R^3+19264 l^8 r^7 R^3-16448 l^6 r^9 R^3-12640 l^4 r^{11} R^3+20960 l^2 r^{13} R^3-5632 r^{15} R^3+16 l^{14} R^4-2640 l^{12} r^2 R^4+7280 l^{10} r^4 R^4+36112 l^8 r^6 R^4-74640 l^6 r^8 R^4-38064 l^4 r^{10} R^4+104720 l^2 r^{12} R^4-35856 r^{14} R^4-448 l^{12} r R^5+10240 l^{10} r^3 R^5+28608 l^8 r^5 R^5-172032 l^6 r^7 R^5-24640 l^4 r^9 R^5+334848 l^2 r^{11} R^5-158144 r^{13} R^5+3648 l^{10} r^2 R^6+2048 l^8 r^4 R^6-214656 l^6 r^6 R^6+118528 l^4 r^8 R^6+686656 l^2 r^{10} R^6-492800 r^{12} R^6-8192 l^8 r^3 R^7-128000 l^6 r^5 R^7+297984 l^4 r^7 R^7+873472 l^2 r^9 R^7-1084416 r^{11} R^7-22528 l^6 r^4 R^8+278528 l^4 r^6 R^8+632832 l^2 r^8 R^8-1650688 r^{10} R^8+98304 l^4 r^5 R^9+212992 l^2 r^7 R^9-1654784 r^9 R^9+16384 l^2 r^6 R^{10}-983040 r^8 R^{10}-262144 r^7 R^{11}\right) \Big/ \left(\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)^2 \left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-4 l^2 R^2+20 r^2 R^2+16 r R^3\right)^2\right)\}$$

{X53, SYMMEDIAN POINT OF ORTHIC TRIANGLE, X77, ISOGONAL CONJUGATE OF X(33),

$$-\left(\left(r^2 \left(8 l^{10} r^2-48 l^8 r^4+8 l^6 r^6-18 l^{10} r R+48 l^8 r^3 R+20 l^6 r^5 R+16 l^4 r^7 R-2 l^2 r^9 R-5 l^{10} R^2+253 l^8 r^2 R^2-430 l^6 r^4 R^2+298 l^4 r^6 R^2-53 l^2 r^8 R^2+r^{10} R^2+364 l^8 r R^3-2616 l^6 r^3 R^3+2408 l^4 r^5 R^3-632 l^2 r^7 R^3+28 r^9 R^3+72 l^8 R^4-4356 l^6 r^2 R^4+10088 l^4 r^4 R^4-4292 l^2 r^6 R^4+344 r^8 R^4-2816 l^6 r R^5+22112 l^4 r^3 R^5-17760 l^2 r^5 R^5+2432 r^7 R^5-400 l^6 R^6+23888 l^4 r^2 R^6-45264 l^2 r^4 R^6+10896 r^6 R^6+10816 l^4 r R^7-68992 l^2 r^3 R^7+32064 r^5 R^7+1024 l^4 R^8-57664 l^2 r^2 R^8+61952 r^4 R^8-20992 l^2 r R^9+75776 r^3 R^9-1024 l^2 R^{10}+53248 r^2 R^{10}+16384 r R^{11}\right)\right) \Big/ \left(\left(l^2-r R-4 R^2\right)^2 \left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-4 l^2 R^2+20 r^2 R^2+16 r R^3\right)^2\right)\right)\}$$

{X53, SYMMEDIAN POINT OF ORTHIC TRIANGLE, X78, ISOGONAL CONJUGATE OF X(34),

$$-\left(\left(8 l^6 r^6-48 l^4 r^8+8 l^2 r^{10}+2 l^8 r^3 R-132 l^4 r^7 R+64 l^2 r^9 R+2 r^{11} R-l^{10} R^2+9 l^8 r^2 R^2-62 l^6 r^4 R^2+122 l^4 r^6 R^2+87 l^2 r^8 R^2+37 r^{10} R^2+28 l^8 r R^3-272 l^6 r^3 R^3+912 l^4 r^5 R^3-640 l^2 r^7 R^3+292 r^9 R^3+8 l^8 R^4-276 l^6 r^2 R^4+1784 l^4 r^4 R^4-2996 l^2 r^6 R^4+1288 r^8 R^4-192 l^6 r R^5+2048 l^4 r^3 R^5-5728 l^2 r^5 R^5+3488 r^7 R^5-16 l^6 R^6+1168 l^4 r^2 R^6-5968 l^2 r^4 R^6+5968 r^6 R^6+320 l^4 r R^7-3584 l^2 r^3 R^7+6336 r^5 R^7-1088 l^2 r^2 R^8+3840 r^4 R^8+1024 r^3 R^9\right) \Big/ \left((r-R)^2 \left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-4 l^2 R^2+20 r^2 R^2+16 r R^3\right)^2\right)\right)\}$$

{X53, SYMMEDIAN POINT OF ORTHIC TRIANGLE, X79, ISOGONAL CONJUGATE OF X(35),

$$-\left(\left(4 r^2 \left(2 l^{10}-16 l^8 r^2+28 l^6 r^4-16 l^4 r^6+2 l^2 r^8-23 l^8 r R+100 l^6 r^3 R-114 l^4 r^5 R+20 l^2 r^7 R+r^9 R-22 l^8 R^2+218 l^6 r^2 R^2-308 l^4 r^4 R^2+50 l^2 r^6 R^2+22 r^8 R^2+195 l^6 r R^3-449 l^4 r^3 R^3-147 l^2 r^5 R^3+209 r^7 R^3+71 l^6 R^4-486 l^4 r^2 R^4-1073 l^2 r^4 R^4+1120 r^6 R^4-304 l^4 r R^5-2360 l^2 r^3 R^5+3704 r^5 R^5-24 l^4 R^6-2360 l^2 r^2 R^6+7744 r^4 R^6-1008 l^2 r R^7+10000 r^3 R^7-144 l^2 R^8+7296 r^2 R^8+2304 r R^9\right)\right) \Big/ \left((2 r+3 R)^2 \left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-4 l^2 R^2+20 r^2 R^2+16 r R^3\right)^2\right)\right)\}$$

{X53, SYMMEDIAN POINT OF ORTHIC TRIANGLE, X80, REFLECTION OF INCENTER IN FEUERBACH POINT,

$$\left(4 r^2 \left(l^8 r-8 l^6 r^3+14 l^4 r^5-8 l^2 r^7+r^9-16 l^6 r^2 R+82 l^4 r^4 R-92 l^2 r^6 R+18 r^8 R-23 l^6 r R^2+219 l^4 r^3 R^2-429 l^2 r^5 R^2+137 r^7 R^2-l^6 R^3+282 l^4 r^2 R^3-1065 l^2 r^4 R^3+576 r^6 R^3+160 l^4 r R^4-1512 l^2 r^3 R^4+1464 r^5 R^4+8 l^4 R^5-1176 l^2 r^2 R^5+2304 r^4 R^5-400 l^2 r R^6+2192 r^3 R^6-16 l^2 R^7+1152 r^2 R^7+256 r R^8\right)\right) \Big/ \left((2 r-R) \left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-4 l^2 R^2+20 r^2 R^2+16 r R^3\right)^2\right)\}$$

{X53, SYMMEDIAN POINT OF ORTHIC TRIANGLE, X81, CEVAPOINT OF INCENTER AND SYMMEDIAN POINT,

$$-\left(\left(r^2 \left(16 l^{10} r^2-112 l^8 r^4+112 l^6 r^6-16 l^4 r^8-160 l^8 r^3 R+448 l^6 r^5 R-160 l^4 r^7 R-l^{10} R^2-63 l^8 r^2 R^2+866 l^6 r^4 R^2-610 l^4 r^6 R^2-l^2 r^8 R^2+r^{10} R^2+20 l^8 r R^3+640 l^6 r^3 R^3-1288 l^4 r^5 R^3-32 l^2 r^7 R^3+20 r^9 R^3+8 l^8 R^4-20 l^6 r^2 R^4-1864 l^4 r^4 R^4-148 l^2 r^6 R^4+168 r^8 R^4-128 l^6 r R^5-1504 l^4 r^3 R^5-32 l^2 r^5 R^5+768 r^7 R^5-16 l^6 R^6-240 l^4 r^2 R^6+944 l^2 r^4 R^6+2064 r^6 R^6+192 l^4 r R^7+1792 l^2 r^3 R^7+3264 r^5 R^7+960 l^2 r^2 R^8+2816 r^4 R^8+1024 r^3 R^9\right)\right) \Big/ \left(\left(l^2-r^2-r R\right)^2 \left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-4 l^2 R^2+20 r^2 R^2+16 r R^3\right)^2\right)\right)\}$$

{X53, SYMMEDIAN POINT OF ORTHIC TRIANGLE, X82, ISOGONAL CONJUGATE OF X(38),

$$-\left(\left(r^2\left(24 l^{14} r^2-272 l^{12} r^4+1000 l^{10} r^6-1504 l^8 r^8+1000 l^6 r^{10}-272 l^4 r^{12}+24 l^2 r^{14}+2 l^{14} r R-586 l^{12} r^3 R+4914 l^{10} r^5 R-12906 l^8 r^7 R+12950 l^6 r^9 R-4942 l^4 r^{11} R+566 l^2 r^{13} R+2 r^{15} R-l^{14} R^2-185 l^{12} r^2 R^2+7211 l^{10} r^4 R^2-38989 l^8 r^6 R^2+64941 l^6 r^8 R^2-36667 l^4 r^{10} R^2+5673 l^2 r^{12} R^2+65 r^{14} R^2+20 l^{12} r R^3+3168 l^{10} r^3 R^3-49500 l^8 r^5 R^3+157664 l^6 r^7 R^3-142436 l^4 r^9 R^3+31168 l^2 r^{11} R^3+940 r^{13} R^3+8 l^{12} R^4+44 l^{10} r^2 R^4-25016 l^8 r^4 R^4+189160 l^6 r^6 R^4-306920 l^4 r^8 R^4+99948 l^2 r^{10} R^4+7960 r^{12} R^4-224 l^{10} r R^5-1248 l^8 r^3 R^5+97920 l^6 r^5 R^5-349376 l^4 r^7 R^5+177504 l^2 r^9 R^5+43680 r^{11} R^5-16 l^{10} R^6+2288 l^8 r^2 R^6+256 l^6 r^4 R^6-150912 l^4 r^6 R^6+113424 l^2 r^8 R^6+162192 r^{10} R^6+448 l^8 r R^7-17152 l^6 r^3 R^7+66560 l^4 r^5 R^7-164864 l^2 r^7 R^7+412480 r^9 R^7-4416 l^6 r^2 R^8+88448 l^4 r^4 R^8-389952 l^2 r^6 R^8+709120 r^8 R^8+26112 l^4 r^3 R^9-297472 l^2 r^5 R^9+788480 r^7 R^9-82944 l^2 r^4 R^{10}+512000 r^6 R^{10}+147456 r^5 R^{11}\right)\right)\Big/\left(\left(l^4-4 l^2 r^2+3 r^4-9 l^2 r R+19 r^3 R+28 r^2 R^2\right)^2\left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-4 l^2 R^2+20 r^2 R^2+16 r R^3\right)^2\right)\right)\}$$

{X53, SYMMEDIAN POINT OF ORTHIC TRIANGLE, X83, CEVAPOINT OF CENTROID AND SYMMEDIAN POINT,

$$\left(l^{18}-5 l^{16} r^2-264 l^{14} r^4+2320 l^{12} r^6-5614 l^{10} r^8+5614 l^8 r^{10}-2320 l^6 r^{12}+264 l^4 r^{14}+5 l^2 r^{16}-r^{18}-36 l^{16} r R+176 l^{14} r^3 R+5104 l^{12} r^5 R-32944 l^{10} r^7 R+55400 l^8 r^9 R-32944 l^6 r^{11} R+5104 l^4 r^{13} R+176 l^2 r^{15} R-36 r^{17} R-8 l^{16} R^2+468 l^{14} r^2 R^2-1080 l^{12} r^4 R^2-47252 l^{10} r^6 R^2+185152 l^8 r^8 R^2-179028 l^6 r^{10} R^2+39752 l^4 r^{12} R^2+2580 l^2 r^{14} R^2-584 r^{16} R^2+256 l^{14} r R^3-3040 l^{12} r^3 R^3-4768 l^{10} r^5 R^3+230208 l^8 r^7 R^3-456768 l^6 r^9 R^3+157344 l^4 r^{11} R^3+20960 l^2 r^{13} R^3-5632 r^{15} R^3+16 l^{14} R^4-2640 l^{12} r^2 R^4+9840 l^{10} r^4 R^4+71440 l^8 r^6 R^4-531856 l^6 r^8 R^4+323920 l^4 r^{10} R^4+104720 l^2 r^{12} R^4-35856 r^{14} R^4-448 l^{12} r R^5+10240 l^{10} r^3 R^5-2112 l^8 r^5 R^5-233472 l^6 r^7 R^5+305088 l^4 r^9 R^5+334848 l^2 r^{11} R^5-158144 r^{13} R^5+3648 l^{10} r^2 R^6+2048 l^8 r^4 R^6-91776 l^6 r^6 R^6+93952 l^4 r^8 R^6+686656 l^2 r^{10} R^6-492800 r^{12} R^6-8192 l^8 r^3 R^7-128000 l^6 r^5 R^7+134144 l^4 r^7 R^7+873472 l^2 r^9 R^7-1084416 r^{11} R^7-22528 l^6 r^4 R^8+278528 l^4 r^6 R^8+632832 l^2 r^8 R^8-1650688 r^{10} R^8+98304 l^4 r^5 R^9+212992 l^2 r^7 R^9-1654784 r^9 R^9+16384 l^2 r^6 R^{10}-983040 r^8 R^{10}-262144 r^7 R^{11}\right)\Big/\left(\left(5 l^4-6 l^2 r^2+5 r^4-40 l^2 r R+40 r^3 R+80 r^2 R^2\right)^2\left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-4 l^2 R^2+20 r^2 R^2+16 r R^3\right)^2\right)\}$$

{X53, SYMMEDIAN POINT OF ORTHIC TRIANGLE, X84, ISOGONAL CONJUGATE OF X(40),

$$\left(4\left(2 l^8 r^4-12 l^6 r^6+2 l^4 r^8+l^{10} r R-15 l^8 r^3 R+43 l^6 r^5 R-17 l^4 r^7 R+4 l^2 r^9 R-l^{10} R^2-6 l^8 r^2 R^2+113 l^6 r^4 R^2-188 l^4 r^6 R^2+50 l^2 r^8 R^2+8 l^8 r R^3+88 l^6 r^3 R^3-528 l^4 r^5 R^3+256 l^2 r^7 R^3+12 l^8 R^4-88 l^6 r^2 R^4-376 l^4 r^4 R^4+624 l^2 r^6 R^4+4 r^8 R^4-144 l^6 r R^5+432 l^4 r^3 R^5+448 l^2 r^5 R^5+64 r^7 R^5-48 l^6 R^6+864 l^4 r^2 R^6-1088 l^2 r^4 R^6+416 r^6 R^6+512 l^4 r R^7-2560 l^2 r^3 R^7+1408 r^5 R^7+64 l^4 R^8-1920 l^2 r^2 R^8+2624 r^4 R^8-512 l^2 r R^9+2560 r^3 R^9+1024 r^2 R^{10}\right)\right)\Big/\left(r^2\left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-4 l^2 R^2+20 r^2 R^2+16 r R^3\right)^2\right)\}$$

{X53, SYMMEDIAN POINT OF ORTHIC TRIANGLE, X85, ISOTOMIC CONJUGATE OF X(9),

$$\left(l^{14}-7 l^{12} r^2+5 l^{10} r^4+13 l^8 r^6-13 l^6 r^8-5 l^4 r^{10}+7 l^2 r^{12}-r^{14}-36 l^{12} r R+264 l^{10} r^3 R-572 l^8 r^5 R+528 l^6 r^7 R-380 l^4 r^9 R+232 l^2 r^{11} R-36 r^{13} R-8 l^{12} R^2+484 l^{10} r^2 R^2-2968 l^8 r^4 R^2+6488 l^6 r^6 R^2-5656 l^4 r^8 R^2+3268 l^2 r^{10} R^2-584 r^{12} R^2+320 l^{10} r R^3-5792 l^8 r^3 R^3+25568 l^6 r^5 R^3-37216 l^4 r^7 R^3+25824 l^2 r^9 R^3-5632 r^{11} R^3+16 l^{10} R^4-4336 l^8 r^2 R^4+44864 l^6 r^4 R^4-129408 l^4 r^6 R^4+126512 l^2 r^8 R^4-35856 r^{10} R^4-960 l^8 r R^5+41088 l^6 r^3 R^5-248704 l^4 r^5 R^5+398976 l^2 r^7 R^5-158144 r^9 R^5+15936 l^6 r^2 R^6-258688 l^4 r^4 R^6+810560 l^2 r^6 R^6-492800 r^8 R^6+1024 l^6 r R^7-134144 l^4 r^3 R^7+1025024 l^2 r^5 R^7-1084416 r^7 R^7-26624 l^4 r^2 R^8+739328 l^2 r^4 R^8-1650688 r^6 R^8+245760 l^2 r^3 R^9-1654784 r^5 R^9+16384 l^2 r^2 R^{10}-983040 r^4 R^{10}-262144 r^3 R^{11}\right)\Big/\left(\left(l^2+r^2+8 r R+16 R^2\right)^2\left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-4 l^2 R^2+20 r^2 R^2+16 r R^3\right)^2\right)\}$$

{X53, SYMMEDIAN POINT OF ORTHIC TRIANGLE, X86, CEVAPOINT OF INCENTER AND CENTROID,

$$\left(l^{14}+l^{12}r^2-163\,l^{10}r^4+733\,l^8r^6-93\,l^6r^8+35\,l^4r^{10}-l^2r^{12}-r^{14}-12\,l^{12}r\,R-8\,l^{10}r^3R+892\,l^8r^5R-752\,l^6r^7R+428\,l^4r^9R-8\,l^2r^{11}R-28\,r^{13}R-8\,l^{12}R^2-140\,l^{10}r^2R^2+248\,l^8r^4R^2-2216\,l^6r^6R^2+2536\,l^4r^8R^2-76\,l^2r^{10}R^2-344\,r^{12}R^2+64\,l^{10}r\,R^3+384\,l^8r^3R^3+1088\,l^6r^5R^3+8704\,l^4r^7R^3-1152\,l^2r^9R^3-2432\,r^{11}R^3+16\,l^{10}R^4+1168\,l^8r^2R^4+6016\,l^6r^4R^4+14080\,l^4r^6R^4-8592\,l^2r^8R^4-10896\,r^{10}R^4-64\,l^8r\,R^5+1920\,l^6r^3R^5+2176\,l^4r^5R^5-31872\,l^2r^7R^5-32064\,r^9R^5-2240\,l^6r^2R^6-16768\,l^4r^4R^6-62144\,l^2r^6R^6-61952\,r^8R^6-11776\,l^4r^3R^7-60928\,l^2r^5R^7-75776\,r^7R^7-23552\,l^2r^4R^8-53248\,r^6R^8-16384\,r^5R^9\right)\Big/\left(\left(5\,l^2+r^2+4\,r\,R\right)^2\left(l^4-6\,l^2r^2+r^4-8\,l^2r\,R+8\,r^3R-4\,l^2R^2+20\,r^2R^2+16\,r\,R^3\right)^2\right)\}$$

{X53, SYMMEDIAN POINT OF ORTHIC TRIANGLE, X87, X(2)-CROSS CONJUGATE OF X(1),

$$-\Big(\Big(4\,r^2\left(2\,l^{14}r^2-4\,l^{12}r^4-34\,l^{10}r^6-56\,l^8r^8-34\,l^6r^{10}-4\,l^4r^{12}+2\,l^2r^{14}+l^{14}r\,R-99\,l^{12}r^3R+305\,l^{10}r^5R+565\,l^8r^7R-117\,l^6r^9R-209\,l^4r^{11}R+67\,l^2r^{13}R-r^{15}R-l^{14}R^2-14\,l^{12}r^2R^2+1705\,l^{10}r^4R^2-5824\,l^8r^6R^2+4657\,l^6r^8R^2-3222\,l^4r^{10}R^2+935\,l^2r^{12}R^2-28\,r^{14}R^2+8\,l^{12}r\,R^3-16\,l^{10}r^3R^3-11464\,l^8r^5R^3+25856\,l^6r^7R^3-20840\,l^4r^9R^3+7056\,l^2r^{11}R^3-344\,r^{13}R^3+8\,l^{12}R^4+120\,l^{10}r^2R^4-3056\,l^8r^4R^4+48368\,l^6r^6R^4-66072\,l^4r^8R^4+31512\,l^2r^{10}R^4-2432\,r^{12}R^4-80\,l^{10}r\,R^5+1200\,l^8r^3R^5+26976\,l^6r^5R^5-107296\,l^4r^7R^5+85488\,l^2r^9R^5-10896\,r^{11}R^5-16\,l^{10}R^6-896\,l^8r^2R^6-5472\,l^6r^4R^6-84416\,l^4r^6R^6+137968\,l^2r^8R^6-32064\,r^{10}R^6+128\,l^8r\,R^7-128\,l^6r^3R^7-21632\,l^4r^5R^7+121472\,l^2r^7R^7-61952\,r^9R^7+1792\,l^6r^2R^8+7680\,l^4r^4R^8+44800\,l^2r^6R^8-75776\,r^8R^8+4096\,l^4r^3R^9-53248\,r^7R^9-16384\,r^6R^{10}\right)\Big)\Big/\left(\left(l^4+2\,l^2r^2+r^4-20\,l^2r\,R+12\,r^3R+32\,r^2R^2\right)^2\left(l^4-6\,l^2r^2+r^4-8\,l^2r\,R+8\,r^3R-4\,l^2R^2+20\,r^2R^2+16\,r\,R^3\right)^2\right)\Big)\}$$

{X53, SYMMEDIAN POINT OF ORTHIC TRIANGLE, X88, ISOGONAL CONJUGATE OF X(44),

$$\left(r^2\left(16\,l^{10}r^2-48\,l^8r^4-272\,l^6r^6+48\,l^4r^8-8\,l^{10}r\,R-432\,l^8r^3R+1920\,l^6r^5R-400\,l^4r^7R+72\,l^2r^9R+l^{10}R^2-65\,l^8r^2R^2+3118\,l^6r^4R^2-5710\,l^4r^6R^2+1521\,l^2r^8R^2-81\,r^{10}R^2+76\,l^8r\,R^3+5824\,l^6r^3R^3-25496\,l^4r^5R^3+14688\,l^2r^7R^3-1620\,r^9R^3-8\,l^8R^4-684\,l^6r^2R^4-42424\,l^4r^4R^4+67284\,l^2r^6R^4-13608\,r^8R^4-256\,l^6r\,R^5-24608\,l^4r^3R^5+151200\,l^2r^5R^5-62208\,r^7R^5+16\,l^6R^6+3824\,l^4r^2R^6+158544\,l^2r^4R^6-167184\,r^6R^6+320\,l^4r\,R^7+57600\,l^2r^3R^7-264384\,r^5R^7-4032\,l^2r^2R^8-228096\,r^4R^8-82944\,r^3R^9\right)\right)\Big/\left(\left(l^2+3\,r^2-15\,r\,R\right)^2\left(l^4-6\,l^2r^2+r^4-8\,l^2r\,R+8\,r^3R-4\,l^2R^2+20\,r^2R^2+16\,r\,R^3\right)^2\right)\}$$

{X53, SYMMEDIAN POINT OF ORTHIC TRIANGLE, X89, ISOGONAL CONJUGATE OF X(45),

$$-\Big(\Big(r^2\left(128\,l^{10}r^2-1152\,l^8r^4+2432\,l^6r^6-384\,l^4r^8+8\,l^{10}r\,R-1008\,l^8r^3R+3648\,l^6r^5R-2576\,l^4r^7R-72\,l^2r^9R-l^{10}R^2-895\,l^8r^2R^2+5138\,l^6r^4R^2-2546\,l^4r^6R^2-1521\,l^2r^8R^2+81\,r^{10}R^2-76\,l^8r\,R^3+3872\,l^6r^3R^3+12728\,l^4r^5R^3-14688\,l^2r^7R^3+1620\,r^9R^3+8\,l^8R^4+2220\,l^6r^2R^4+22072\,l^4r^4R^4-67284\,l^2r^6R^4+13608\,r^8R^4+256\,l^6r\,R^5+5792\,l^4r^3R^5-151200\,l^2r^5R^5+62208\,r^7R^5-16\,l^6R^6-3824\,l^4r^2R^6-158544\,l^2r^4R^6+167184\,r^6R^6-320\,l^4r\,R^7-57600\,l^2r^3R^7+264384\,r^5R^7+4032\,l^2r^2R^8+228096\,r^4R^8+82944\,r^3R^9\right)\Big)\Big/\left(\left(2\,l^2-6\,r^2+3\,r\,R\right)^2\left(l^4-6\,l^2r^2+r^4-8\,l^2r\,R+8\,r^3R-4\,l^2R^2+20\,r^2R^2+16\,r\,R^3\right)^2\right)\Big)\}$$

{X53, SYMMEDIAN POINT OF ORTHIC TRIANGLE, X90, X(3)-CROSS CONJUGATE OF X(1),

$$\Big(4\,r^2\left(2\,l^8r^4-12\,l^6r^6+2\,l^4r^8+l^{10}r\,R-9\,l^8r^3R+5\,l^6r^5R+l^4r^7R+2\,l^2r^9R-22\,l^8r^2R^2+123\,l^6r^4R^2-116\,l^4r^6R^2+31\,l^2r^8R^2-12\,l^8r\,R^3+232\,l^6r^3R^3-564\,l^4r^5R^3+200\,l^2r^7R^3+184\,l^6r^2R^4-1072\,l^4r^4R^4+688\,l^2r^6R^4+61\,l^6r\,R^5-1007\,l^4r^3R^5+1363\,l^2r^5R^5-r^7R^5+l^6R^6-554\,l^4r^2R^6+1625\,l^2r^4R^6-16\,r^6R^6-192\,l^4r\,R^7+1304\,l^2r^3R^7-104\,r^5R^7-8\,l^4R^8+856\,l^2r^2R^8-352\,r^4R^8+368\,l^2r\,R^9-656\,r^3R^9+16\,l^2R^{10}-640\,r^2R^{10}-256\,r\,R^{11}\right)\Big)\Big/\left(\left(r^2+2\,r\,R-R^2\right)^2\left(l^4-6\,l^2r^2+r^4-8\,l^2r\,R+8\,r^3R-4\,l^2R^2+20\,r^2R^2+16\,r\,R^3\right)^2\right)\}$$

{X53, SYMMEDIAN POINT OF ORTHIC TRIANGLE, X91, ISOGONAL CONJUGATE OF X(47),

$$\left(r^2 \left(l^{14} - 7 l^{12} r^2 + 5 l^{10} r^4 + 13 l^8 r^6 - 13 l^6 r^8 - 5 l^4 r^{10} + 7 l^2 r^{12} - r^{14} - 34 l^{12} r R + 248 l^{10} r^3 R - 554 l^8 r^5 R + 576 l^6 r^7 R - 406 l^4 r^9 R + 200 l^2 r^{11} R - 30 r^{13} R - 16 l^{12} R^2 + 496 l^{10} r^2 R^2 - 2564 l^8 r^4 R^2 + 4912 l^6 r^6 R^2 - 4632 l^4 r^8 R^2 + 2336 l^2 r^{10} R^2 - 404 r^{12} R^2 + 500 l^{10} r R^3 - 5420 l^8 r^3 R^3 + 17608 l^6 r^5 R^3 - 24120 l^4 r^7 R^3 + 15172 l^2 r^9 R^3 - 3228 r^{11} R^3 + 104 l^{10} R^4 - 5668 l^8 r^2 R^4 + 34624 l^6 r^4 R^4 - 72648 l^4 r^6 R^4 + 61912 l^2 r^8 R^4 - 17044 r^{10} R^4 - 2968 l^8 r R^5 + 40464 l^6 r^3 R^5 - 138624 l^4 r^5 R^5 + 168688 l^2 r^7 R^5 - 62696 r^9 R^5 - 352 l^8 R^6 + 27248 l^6 r^2 R^6 - 172224 l^4 r^4 R^6 + 316400 l^2 r^6 R^6 - 165056 r^8 R^6 + 9072 l^6 r R^7 - 137136 l^4 r^3 R^7 + 412368 l^2 r^5 R^7 - 314512 r^7 R^7 + 656 l^6 R^8 - 65120 l^4 r^2 R^8 + 368912 l^2 r^4 R^8 - 433472 r^6 R^8 - 14976 l^4 r R^9 + 217216 l^2 r^3 R^9 - 426752 r^5 R^9 - 640 l^4 R^{10} + 76416 l^2 r^2 R^{10} - 291840 r^4 R^{10} + 12544 l^2 r R^{11} - 131328 r^3 R^{11} + 256 l^2 R^{12} - 34816 r^2 R^{12} - 4096 r R^{13}\right)\right) \Big/ \left(\left(l^2 r + r^3 - l^2 R + 3 r^2 R + 2 r R^2 + 2 R^3\right)^2 \left(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 4 l^2 R^2 + 20 r^2 R^2 + 16 r R^3\right)^2\right)\}$$

{X53, SYMMEDIAN POINT OF ORTHIC TRIANGLE, X92, CEVAPOINT OF INCENTER AND CLAWSON POINT,

$$\left((l - r - 2 R)^2 (l + r + 2 R)^2 \left(l^{10} - 5 l^8 r^2 - 6 l^6 r^4 + 6 l^4 r^6 + 5 l^2 r^8 - r^{10} - 28 l^8 r R + 152 l^6 r^3 R - 208 l^4 r^5 R + 104 l^2 r^7 R - 20 r^9 R - 8 l^8 R^2 + 228 l^6 r^2 R^2 - 712 l^4 r^4 R^2 + 676 l^2 r^6 R^2 - 168 r^8 R^2 + 192 l^6 r R^3 - 1344 l^4 r^3 R^3 + 2048 l^2 r^5 R^3 - 768 r^7 R^3 + 16 l^6 R^4 - 1040 l^4 r^2 R^4 + 3280 l^2 r^4 R^4 - 2064 r^6 R^4 - 320 l^4 r R^5 + 2816 l^2 r^3 R^5 - 3264 r^5 R^5 + 1088 l^2 r^2 R^6 - 2816 r^4 R^6 - 1024 r^3 R^7\right)\right) \Big/ \left(\left(l^2 + r^2 - 4 R^2\right)^2 \left(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 4 l^2 R^2 + 20 r^2 R^2 + 16 r R^3\right)^2\right)\}$$

{X53, SYMMEDIAN POINT OF ORTHIC TRIANGLE,
X93, ISOGONAL CONJUGATE OF X(49),

$$\left((l - r - 2 R)^2 (l + r + 2 R)^2 \left(l^{14} - 3 l^{12} r^2 - 15 l^{10} r^4 - 11 l^8 r^6 + 11 l^6 r^8 + 15 l^4 r^{10} + 3 l^2 r^{12} - r^{14} - 28 l^{12} r R + 88 l^{10} r^3 R + 92 l^8 r^5 R - 48 l^6 r^7 R + 92 l^4 r^9 R + 88 l^2 r^{11} R - 28 r^{13} R - 10 l^{12} R^2 + 216 l^{10} r^2 R^2 - 22 l^8 r^4 R^2 - 1168 l^6 r^6 R^2 + 346 l^4 r^8 R^2 + 920 l^2 r^{10} R^2 - 346 r^{12} R^2 + 240 l^{10} r R^3 - 560 l^8 r^3 R^3 - 3424 l^6 r^5 R^3 + 2528 l^4 r^7 R^3 + 4720 l^2 r^9 R^3 - 2480 r^{11} R^3 + 32 l^{10} R^4 - 1088 l^8 r^2 R^4 - 4608 l^6 r^4 R^4 + 11456 l^4 r^6 R^4 + 12768 l^2 r^8 R^4 - 11392 r^{10} R^4 - 640 l^8 r R^5 - 2304 l^6 r^3 R^5 + 24832 l^4 r^5 R^5 + 16128 l^2 r^7 R^5 - 34944 r^9 R^5 - 34 l^8 R^6 + 832 l^6 r^2 R^6 + 26948 l^4 r^4 R^6 - 192 l^2 r^6 R^6 - 72226 r^8 R^6 + 544 l^6 r R^7 + 13280 l^4 r^3 R^7 - 25568 l^2 r^5 R^7 - 98848 r^7 R^7 + 7 l^6 R^8 + 1871 l^4 r^2 R^8 - 28431 l^2 r^4 R^8 - 85191 r^6 R^8 - 84 l^4 r R^9 - 11752 l^2 r^3 R^9 - 41556 r^5 R^9 + 4 l^4 R^{10} - 1700 l^2 r^2 R^{10} - 9036 r^4 R^{10} - 32 l^2 r R^{11} - 416 r^3 R^{11} + 64 r^2 R^{12}\right)\right) \Big/ \left(\left(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 4 l^2 R^2 + 20 r^2 R^2 + 16 r R^3\right)^2 \left(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 8 l^2 R^2 + 24 r^2 R^2 + 32 r R^3 + 13 R^4\right)^2\right)\}$$

{X53, SYMMEDIAN POINT OF ORTHIC TRIANGLE, X94, ISOGONAL CONJUGATE OF X(50),

$$\left(l^{18} - 5 l^{16} r^2 - 8 l^{14} r^4 + 16 l^{12} r^6 + 18 l^{10} r^8 - 18 l^8 r^{10} - 16 l^6 r^{12} + 8 l^4 r^{14} + 5 l^2 r^{16} - r^{18} - 36 l^{16} r R + 176 l^{14} r^3 R - 16 l^{12} r^5 R - 176 l^{10} r^7 R + 104 l^8 r^9 R - 176 l^6 r^{11} R - 16 l^4 r^{13} R + 176 l^2 r^{15} R - 36 r^{17} R - 20 l^{16} R^2 + 516 l^{14} r^2 R^2 - 1320 l^{12} r^4 R^2 - 1220 l^{10} r^6 R^2 + 3384 l^8 r^8 R^2 - 1924 l^6 r^{10} R^2 - 1448 l^4 r^{12} R^2 + 2628 l^2 r^{14} R^2 - 596 r^{16} R^2 + 640 l^{14} r R^3 - 4576 l^{12} r^3 R^3 + 608 l^{10} r^5 R^3 + 20416 l^8 r^7 R^3 - 17600 l^6 r^9 R^3 - 11872 l^4 r^{11} R^3 + 22496 l^2 r^{13} R^3 - 6016 r^{15} R^3 + 166 l^{14} R^4 - 6786 l^{12} r^2 R^4 + 13910 l^{10} r^4 R^4 + 53950 l^8 r^6 R^4 - 94782 l^6 r^8 R^4 - 40086 l^4 r^{10} R^4 + 124226 l^2 r^{12} R^4 - 41382 r^{14} R^4 - 4648 l^{12} r R^5 + 32848 l^{10} r^3 R^5 + 64680 l^8 r^5 R^5 - 300960 l^6 r^7 R^5 - 31576 l^4 r^9 R^5 + 468048 l^2 r^{11} R^5 - 205352 r^{13} R^5 - 732 l^{12} R^6 + 36048 l^{10} r^2 R^6 + 8060 l^8 r^4 R^6 - 584736 l^6 r^6 R^6 + 225820 l^4 r^8 R^6 + 1231696 l^2 r^{10} R^6 - 758972 r^{12} R^6 + 17568 l^{10} r R^7 - 73760 l^8 r^3 R^7 - 691520 l^6 r^5 R^7 + 942144 l^4 r^7 R^7 + 2257312 l^2 r^9 R^7 - 2126112 r^{11} R^7 + 1809 l^{10} R^8 - 88065 l^8 r^2 R^8 - 447730 l^6 r^4 R^8 + 1830770 l^4 r^6 R^8 + 2767809 l^2 r^8 R^8 - 4548433 r^{10} R^8 - 36180 l^8 r R^9 - 78240 l^6 r^3 R^9 + 2098536 l^4 r^5 R^9 + 1965664 l^2 r^7 R^9 - 7426388 r^9 R^9 - 2376 l^8 R^{10} + 77652 l^6 r^2 R^{10} + 1425096 l^4 r^4 R^{10} + 223444 l^2 r^6 R^{10} - 9172968 r^8 R^{10} + 38016 l^6 r R^{11} + 498528 l^4 r^3 R^{11} - 1029600 l^2 r^5 R^{11} - 8412928 r^7 R^{11} + 1296 l^6 R^{12} + 40176 l^4 r^2 R^{12} - 1037232 l^2 r^4 R^{12} - 5543184 r^6 R^{12} - 15552 l^4 r R^{13} - 449280 l^2 r^3 R^{13} - 2476224 r^5 R^{13} - 77760 l^2 r^2 R^{14} - 670464 r^4 R^{14} - 82944 r^3 R^{15}\right) \Big/ \left(\left(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 4 l^2 R^2 + 20 r^2 R^2 + 16 r R^3\right)^2 \left(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 12 l^2 R^2 + 28 r^2 R^2 + 48 r R^3 + 27 R^4\right)^2\right)\}$$

{X53, SYMMEDIAN POINT OF ORTHIC TRIANGLE, X95, CEVAPOINT OF CENTROID AND CIRCUMCENTER,

$$\left(l^{18}+11 l^{16} r^2-56 l^{14} r^4+800 l^{12} r^6-7326 l^{10} r^8+7326 l^8 r^{10}-800 l^6 r^{12}+56 l^4 r^{14}-11 l^2 r^{16}-r^{18}-36 l^{16} r R-272 l^{14} r^3 R+1392 l^{12} r^5 R-10992 l^{10} r^7 R+40296 l^8 r^9 R-10992 l^6 r^{11} R+1392 l^4 r^{13} R-272 l^2 r^{15} R-36 r^{17} R-16 l^{16} R^2+308 l^{14} r^2 R^2+2984 l^{12} r^4 R^2-20724 l^{10} r^6 R^2+96144 l^8 r^8 R^2-64692 l^6 r^{10} R^2+14120 l^4 r^{12} R^2-2956 l^2 r^{14} R^2-592 r^{16} R^2+512 l^{14} r R^3+544 l^{12} r^3 R^3-23200 l^{10} r^5 R^3+133696 l^8 r^7 R^3-210752 l^6 r^9 R^3+78496 l^4 r^{11} R^3-18464 l^2 r^{13} R^3-5888 r^{15} R^3+96 l^{14} R^4-4576 l^{12} r^2 R^4-19872 l^{10} r^4 R^4+149728 l^8 r^6 R^4-417120 l^6 r^8 R^4+269664 l^4 r^{10} R^4-72544 l^2 r^{12} R^4-39520 r^{14} R^4-2688 l^{12} r R^5+8192 l^{10} r^3 R^5+141440 l^8 r^5 R^5-557056 l^6 r^7 R^5+616576 l^4 r^9 R^5-183296 l^2 r^{11} R^5-189056 r^{13} R^5-256 l^{12} R^6+19840 l^{10} r^2 R^6+78592 l^8 r^4 R^6-602880 l^6 r^6 R^6+1010944 l^4 r^8 R^6-288384 l^2 r^{10} R^6-663296 r^{12} R^6+6144 l^{10} r R^7-22528 l^8 r^3 R^7-538624 l^6 r^5 R^7+1296384 l^4 r^7 R^7-249856 l^2 r^9 R^7-1728512 r^{11} R^7+256 l^{10} R^8-32000 l^8 r^2 R^8-267776 l^6 r^4 R^8+1345024 l^4 r^6 R^8-82688 l^2 r^8 R^8-3346688 r^{10} R^8-5120 l^8 r R^9-20480 l^6 r^3 R^9+1009664 l^4 r^5 R^9-53248 l^2 r^7 R^9-4756480 r^9 R^9+13312 l^6 r^2 R^{10}+423936 l^4 r^4 R^{10}-232448 l^2 r^6 R^{10}-4825088 r^8 R^{10}+57344 l^4 r^3 R^{11}-286720 l^2 r^5 R^{11}-3309568 r^7 R^{11}-114688 l^2 r^4 R^{12}-1376256 r^6 R^{12}-262144 r^5 R^{13}\right) \Big/ \left(\left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-4 l^2 R^2+20 r^2 R^2+16 r R^3\right)^2 \left(l^4+18 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-4 l^2 R^2+20 r^2 R^2+16 r R^3\right)^2\right)\}$$

{X53, SYMMEDIAN POINT OF ORTHIC TRIANGLE, X96, ISOGONAL CONJUGATE OF X(52),

$$-\left(\left(l^{18}-29 l^{16} r^2+320 l^{14} r^4-1928 l^{12} r^6+5914 l^{10} r^8-5914 l^8 r^{10}+1928 l^6 r^{12}-320 l^4 r^{14}+29 l^2 r^{16}-r^{18}-36 l^{16} r R+848 l^{14} r^3 R-7248 l^{12} r^5 R+30384 l^{10} r^7 R-54040 l^8 r^9 R+30384 l^6 r^{11} R-7248 l^4 r^{13} R+848 l^2 r^{15} R-36 r^{17} R-20 l^{16} R^2+1036 l^{14} r^2 R^2-14424 l^{12} r^4 R^2+84404 l^{10} r^6 R^2-220264 l^8 r^8 R^2+205940 l^6 r^{10} R^2-72408 l^4 r^{12} R^2+11212 l^2 r^{14} R^2-596 r^{16} R^2+640 l^{14} r R^3-17056 l^{12} r^3 R^3+147488 l^{10} r^5 R^3-547776 l^8 r^7 R^3+801472 l^6 r^9 R^3-422432 l^4 r^{11} R^3+88736 l^2 r^{13} R^3-6016 r^{15} R^3+168 l^{14} R^4-11960 l^{12} r^2 R^4+174120 l^{10} r^4 R^4-935096 l^8 r^6 R^4+2030648 l^6 r^8 R^4-1608936 l^4 r^{10} R^4+469240 l^2 r^{12} R^4-41384 r^{14} R^4-4704 l^{12} r R^5+136384 l^{10} r^3 R^5-1129376 l^8 r^5 R^5+3593856 l^6 r^7 R^5-4244384 l^4 r^9 R^5+1753280 l^2 r^{11} R^5-205408 r^{13} R^5-768 l^{12} R^6+66912 l^{10} r^2 R^6-967040 l^8 r^4 R^6+4599616 l^6 r^6 R^6-8036352 l^4 r^8 R^6+4775776 l^2 r^{10} R^6-759680 r^{12} R^6+18432 l^{10} r R^7-562176 l^8 r^3 R^7+4281856 l^6 r^5 R^7-11149824 l^4 r^7 R^7+9649664 l^2 r^9 R^7-2131456 r^{11} R^7+2064 l^{10} R^8-205584 l^8 r^2 R^8+2845408 l^6 r^4 R^8-11409120 l^4 r^6 R^8+14577424 l^2 r^8 R^8-4575248 r^{10} R^8-41280 l^8 r R^9+1279488 l^6 r^3 R^9-8520064 l^4 r^5 R^9+16459264 l^2 r^7 R^9-7520576 r^9 R^9-3264 l^8 R^{10}+355776 l^6 r^2 R^{10}-4497408 l^4 r^4 R^{10}+13755840 l^2 r^6 R^{10}-9410240 r^8 R^{10}+52224 l^6 r R^{11}-1577472 l^4 r^3 R^{11}+8317440 l^2 r^5 R^{11}-8844288 r^7 R^{11}+2816 l^6 R^{12}-330496 l^4 r^2 R^{12}+3485440 l^2 r^4 R^{12}-6103808 r^6 R^{12}-33792 l^4 r R^{13}+937984 l^2 r^3 R^{13}-2982912 r^5 R^{13}-1024 l^4 R^{14}+140288 l^2 r^2 R^{14}-971776 r^4 R^{14}+8192 l^2 r R^{15}-188416 r^3 R^{15}-16384 r^2 R^{16}\right) \Big/ \left(\left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-4 l^2 R^2+20 r^2 R^2+16 r R^3\right)^2 \left(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2-4 R^4\right)^2\right)\right)\}$$

{X53, SYMMEDIAN POINT OF ORTHIC TRIANGLE, X97, ISOGONAL CONJUGATE OF X(53),

$$-\left(\left(32 l^{14} r^4-416 l^{12} r^6+1600 l^{10} r^8-1600 l^8 r^{10}+416 l^6 r^{12}-32 l^4 r^{14}-640 l^{12} r^5 R+5632 l^{10} r^7 R-12032 l^8 r^9 R+5632 l^6 r^{11} R-640 l^4 r^{13} R-4 l^{14} r^2 R^2-440 l^{12} r^4 R^2+9412 l^{10} r^6 R^2-37648 l^8 r^8 R^2+31940 l^6 r^{10} R^2-5560 l^4 r^{12} R^2-4 l^2 r^{14} R^2+96 l^{12} r^3 R^3+6944 l^{10} r^5 R^3-61760 l^8 r^7 R^3+98624 l^6 r^9 R^3-27424 l^4 r^{11} R^3-96 l^2 r^{13} R^3-l^{14} R^4+51 l^{12} r^2 R^4+1391 l^{10} r^4 R^4-55429 l^8 r^6 R^4+178949 l^6 r^8 R^4-84015 l^4 r^{10} R^4-1011 l^2 r^{12} R^4+r^{14} R^4+28 l^{12} r R^5-1048 l^{10} r^3 R^5-22044 l^8 r^5 R^5+189488 l^6 r^7 R^5-163356 l^4 r^9 R^5-6168 l^2 r^{11} R^5+28 r^{13} R^5+16 l^{12} R^6-420 l^{10} r^2 R^6+2064 l^8 r^4 R^6+104168 l^6 r^6 R^6-194656 l^4 r^8 R^6-24164 l^2 r^{10} R^6+352 r^{12} R^6-384 l^{10} r R^7+3968 l^8 r^3 R^7+14400 l^6 r^5 R^7-123072 l^4 r^7 R^7-63424 l^2 r^9 R^7+2624 r^{11} R^7-96 l^{10} R^8+2080 l^8 r^2 R^8-9216 l^6 r^4 R^8-19584 l^4 r^6 R^8-112032 l^2 r^8 R^8+12896 r^{10} R^8+1920 l^8 r R^9-1280 l^6 r^3 R^9+4864 l^4 r^5 R^9-127232 l^2 r^7 R^9+43904 r^9 R^9+256 l^8 R^{10}-3456 l^6 r^2 R^{10}-27392 l^4 r^4 R^{10}-75136 l^2 r^6 R^{10}+105728 r^8 R^{10}-4096 l^6 r R^{11}-29696 l^4 r^3 R^{11}+13312 l^2 r^5 R^{11}+180224 r^7 R^{11}-256 l^6 R^{12}-5376 l^4 r^2 R^{12}+64768 l^2 r^4 R^{12}+213248 r^6 R^{12}+3072 l^4 r R^{13}+51200 l^2 r^3 R^{13}+166912 r^5 R^{13}+15360 l^2 r^2 R^{14}+77824 r^4 R^{14}+16384 r^3 R^{15}\right) \Big/ \left(\left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-4 l^2 R^2+20 r^2 R^2+16 r R^3\right)^2 \left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-7 l^2 R^2+23 r^2 R^2+28 r R^3+12 R^4\right)^2\right)\right)\}$$

$$\{X53,\ \text{SYMMEDIAN POINT OF ORTHIC TRIANGLE},\ X98,\ \text{TarryPoint},$$
$$-\Big(\big(l^{14}-15 l^{12} r^2+109 l^{10} r^4-387 l^8 r^6+387 l^6 r^8-109 l^4 r^{10}+15 l^2 r^{12}-r^{14}-28 l^{12} r R+328 l^{10} r^3 R-$$
$$1636 l^8 r^5 R+3184 l^6 r^7 R-1636 l^4 r^9 R+328 l^2 r^{11} R-28 r^{13} R-12 l^{12} R^2+436 l^{10} r^2 R^2-$$
$$3460 l^8 r^4 R^2+10584 l^6 r^6 R^2-10004 l^4 r^8 R^2+3060 l^2 r^{10} R^2-348 r^{12} R^2+288 l^{10} r R^3-$$
$$4128 l^8 r^3 R^3+19968 l^6 r^5 R^3-32640 l^4 r^7 R^3+15968 l^2 r^9 R^3-2528 r^{11} R^3+48 l^{10} R^4-2960 l^8 r^2 R^4+$$
$$23808 l^6 r^4 R^4-63744 l^4 r^6 R^4+51408 l^2 r^8 R^4-11888 r^{10} R^4-960 l^8 r R^5+17280 l^6 r^3 R^5-$$
$$79232 l^4 r^5 R^5+106368 l^2 r^7 R^5-37824 r^9 R^5-64 l^8 R^6+7360 l^6 r^2 R^6-62976 l^4 r^4 R^6+$$
$$143040 l^2 r^6 R^6-82496 r^8 R^6+1024 l^6 r R^7-29184 l^4 r^3 R^7+123392 l^2 r^5 R^7-121856 r^7 R^7-$$
$$6144 l^4 r^2 R^8+64512 l^2 r^4 R^8-116736 r^6 R^8+16384 l^2 r^3 R^9-65536 r^5 R^9-16384 r^4 R^{10}\big)\Big/$$
$$\Big(\big(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\big)$$
$$\big(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-4 l^2 R^2+20 r^2 R^2+16 r R^3\big)^2\Big)\Big)\}$$

$$\{X53,\ \text{SYMMEDIAN POINT OF ORTHIC TRIANGLE},\ X99,\ \text{STEINER POINT},$$
$$\big(l^{14}-7 l^{12} r^2-59 l^{10} r^4+461 l^8 r^6-461 l^6 r^8+59 l^4 r^{10}+7 l^2 r^{12}-r^{14}-28 l^{12} r R+168 l^{10} r^3 R+$$
$$540 l^8 r^5 R-2384 l^6 r^7 R+540 l^4 r^9 R+168 l^2 r^{11} R-28 r^{13} R-8 l^{12} R^2+244 l^{10} r^2 R^2+184 l^8 r^4 R^2-$$
$$6056 l^6 r^6 R^2+2344 l^4 r^8 R^2+1588 l^2 r^{10} R^2-344 r^{12} R^2+192 l^{10} r R^3-960 l^8 r^3 R^3-7232 l^6 r^5 R^3+$$
$$7872 l^4 r^7 R^3+7680 l^2 r^9 R^3-2432 r^{11} R^3+16 l^{10} R^4-1008 l^8 r^2 R^4-4352 l^6 r^4 R^4+18816 l^4 r^6 R^4+$$
$$20208 l^2 r^8 R^4-10896 r^{10} R^4-320 l^8 r R^5-384 l^6 r^3 R^5+24448 l^4 r^5 R^5+27264 l^2 r^7 R^5-32064 r^9 R^5+$$
$$832 l^6 r^2 R^6+14976 l^4 r^4 R^6+12608 l^2 r^6 R^6-61952 r^8 R^6+3584 l^4 r^3 R^7-7680 l^2 r^5 R^7-75776 r^7 R^7-$$
$$7168 l^2 r^4 R^8-53248 r^6 R^8-16384 r^5 R^9\big)\Big/\Big(\big(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\big)$$
$$\big(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-4 l^2 R^2+20 r^2 R^2+16 r R^3\big)^2\Big)\}$$

$$\{X53,\ \text{SYMMEDIAN POINT OF ORTHIC TRIANGLE},\ X100,\ \text{ANTICOMPLEMENT OF FEUERBACH POINT},$$
$$\big(8 l^8 r^3-56 l^6 r^5+56 l^4 r^7-8 l^2 r^9-l^{10} R+9 l^8 r^2 R-134 l^6 r^4 R+438 l^4 r^6 R-$$
$$121 l^2 r^8 R+r^{10} R+28 l^8 r R^2-304 l^6 r^3 R^2+1280 l^4 r^5 R^2-768 l^2 r^7 R^2+20 r^9 R^2+$$
$$8 l^8 R^3-276 l^6 r^2 R^3+1976 l^4 r^4 R^3-2580 l^2 r^6 R^3+168 r^8 R^3-192 l^6 r R^4+2016 l^4 r^3 R^4-$$
$$4896 l^2 r^5 R^4+768 r^7 R^4-16 l^6 R^5+1168 l^4 r^2 R^5-5328 l^2 r^4 R^5+2064 r^6 R^5+$$
$$320 l^4 r R^6-3328 l^2 r^3 R^6+3264 r^5 R^6-1088 l^2 r^2 R^7+2816 r^4 R^7+1024 r^3 R^8\big)\Big/$$
$$\Big((2 r-R)\ \big(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-4 l^2 R^2+20 r^2 R^2+16 r R^3\big)^2\Big)\}$$

$$\{X54,\ \text{KosnitaPoint},\ X55,\ \text{INSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),$$
$$-\Big(\big(R^2\ \big(-6 l^4 r^2+12 l^2 r^4+2 r^6+6 l^4 r R+16 l^2 r^3 R+26 r^5 R-46 l^2 r^2 R^2+122 r^4 R^2-37 l^2 r R^3+$$
$$247 r^3 R^3+l^2 R^4+198 r^2 R^4+48 r R^5-4 R^6\big)\big)\Big/\Big((r+R)^2\ \big(-2 l^2+2 r^2+8 r R+5 R^2\big)^2\Big)\Big)\}$$

$$\{X54,\ \text{KosnitaPoint},\ X56,\ \text{EXSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),$$
$$\big(R^2\ \big(-2 l^4 r^2-12 l^2 r^4+6 r^6-2 l^4 r R+16 l^2 r^3 R+34 r^5 R+42 l^2 r^2 R^2+18 r^4 R^2+15 l^2 r R^3-$$
$$133 r^3 R^3-l^2 R^4-130 r^2 R^4-24 r R^5+4 R^6\big)\big)\Big/\Big((r-R)^2\ \big(-2 l^2+2 r^2+8 r R+5 R^2\big)^2\Big)\}$$

$$\{X54,\ \text{KosnitaPoint},\ X57,\ \text{ISOGONAL CONJUGATE OF X}(9),$$
$$-\Big(\big(R\ \big(12 l^4 r^3-16 l^2 r^5+4 r^7+20 l^4 r^2 R-100 l^2 r^4 R+56 r^6 R+8 l^4 r R^2-294 l^2 r^3 R^2+314 r^5 R^2-$$
$$249 l^2 r^2 R^3+875 r^4 R^3-56 l^2 r R^4+1192 r^3 R^4+4 l^2 R^5+636 r^2 R^5+80 r R^6-16 R^7\big)\big)\Big/$$
$$\Big((r-2 R)^2\ \big(-2 l^2+2 r^2+8 r R+5 R^2\big)^2\Big)\Big)\}$$

$$\{X54,\ \text{KosnitaPoint},\ X58,\ \text{ISOGONAL CONJUGATE OF X}(10),$$
$$-\Big(\big(R^2\ \big(12 l^6 r^2+20 l^4 r^4+4 l^2 r^6-4 r^8-80 l^4 r^3 R-96 l^2 r^5 R-16 r^7 R+l^6 R^2-121 l^4 r^2 R^2-$$
$$5 l^2 r^4 R^2+53 r^6 R^2-12 l^4 r R^3+408 l^2 r^3 R^3+292 r^5 R^3-4 l^4 R^4+332 l^2 r^2 R^4+$$
$$288 r^4 R^4+32 l^2 r R^5-64 r^2 R^6\big)\big)\Big/\Big(\big(l^2-3 r^2-4 r R\big)^2\ \big(2 l^2-2 r^2-8 r R-5 R^2\big)^2\Big)\Big)\}$$

$$\{X54,\ \text{KosnitaPoint},\ X59,\ \text{ISOGONAL CONJUGATE OF X}(11),$$
$$\big(R^4\ \big(-10 l^6 r+50 l^4 r^3-62 l^2 r^5+6 r^7+l^6 R+127 l^4 r^2 R-$$
$$357 l^2 r^4 R+93 r^6 R+94 l^4 r R^2-812 l^2 r^3 R^2+566 r^5 R^2-12 l^4 R^3-900 l^2 r^2 R^3+$$
$$1688 r^4 R^3-272 l^2 r R^4+2480 r^3 R^4+48 l^2 R^5+1532 r^2 R^5+224 r R^6-64 R^7\big)\big)\Big/$$
$$\Big((2 r-R)\ \big(-l^2+r^2+5 r R+4 R^2\big)^2\ \big(-2 l^2+2 r^2+8 r R+5 R^2\big)^2\Big)\}$$

$$\{X54, KosnitaPoint, X60, ISOGONAL\ CONJUGATE\ OF\ X(12),$$
$$-\left(\left(R^4\left(20 l^6 r^2-100 l^4 r^4+124 l^2 r^6-12 r^8+4 l^6 r R-252 l^4 r^3 R+636 l^2 r^5 R-132 r^7 R+l^6 R^2-221 l^4 r^2 R^2+1331 l^2 r^4 R^2-559 r^6 R^2-34 l^4 r R^3+1324 l^2 r^3 R^3-1170 r^5 R^3-4 l^4 R^4+588 l^2 r^2 R^4-1312 r^4 R^4+56 l^2 r R^5-768 r^3 R^5-196 r^2 R^6\right)\right)\Big/\left(\left(2 l^2-2 r^2-8 r R-5 R^2\right)^2\left(2 l^2 r-2 r^3+l^2 R-7 r^2 R-7 r R^2\right)^2\right)\right)\}$$

$$\{X54, KosnitaPoint, X61, ISOGONAL\ CONJUGATE\ OF\ X(17),$$
$$\left(3 R^2\left(-4\sqrt{3}\, l^3 r+8 l^2 r^2+4\sqrt{3}\, l r^3+16\sqrt{3}\, l r^2 R-3 l^2 R^2+18\sqrt{3}\, l r R^2+3 r^2 R^2+12 r R^3\right)\left(l^4+4\sqrt{3}\, l^3 r-6 l^2 r^2-4\sqrt{3}\, l r^3+r^4-8 l^2 r R-16\sqrt{3}\, l r^2 R+8 r^3 R-4 l^2 R^2-16\sqrt{3}\, l r R^2+20 r^2 R^2+16 r R^3\right)\right)\Big/\left(\left(3 l^2+2\sqrt{3}\, l r-3 r^2-12 r R\right)^2\left(2 l^2-2 r^2-8 r R-5 R^2\right)^2\right)\}$$

$$\{X54, KosnitaPoint, X62, ISOGONAL\ CONJUGATE\ OF\ X(18),$$
$$\left(3 R^2\left(4\sqrt{3}\, l^3 r+8 l^2 r^2-4\sqrt{3}\, l r^3-16\sqrt{3}\, l r^2 R-3 l^2 R^2-18\sqrt{3}\, l r R^2+3 r^2 R^2+12 r R^3\right)\left(l^4-4\sqrt{3}\, l^3 r-6 l^2 r^2+4\sqrt{3}\, l r^3+r^4-8 l^2 r R+16\sqrt{3}\, l r^2 R+8 r^3 R-4 l^2 R^2+16\sqrt{3}\, l r R^2+20 r^2 R^2+16 r R^3\right)\right)\Big/\left(\left(3 l^2-2\sqrt{3}\, l r-3 r^2-12 r R\right)^2\left(2 l^2-2 r^2-8 r R-5 R^2\right)^2\right)\}$$

$$\{X54, KosnitaPoint, X63, ISOGONAL\ CONJUGATE\ OF\ X(19),$$
$$-\left(\left(R\left(-6 l^6 r+14 l^4 r^3-10 l^2 r^5+2 r^7-2 l^6 R+78 l^4 r^2 R-98 l^2 r^4 R+30 r^6 R+79 l^4 r R^2-356 l^2 r^3 R^2+181 r^5 R^2+7 l^4 R^3-493 l^2 r^2 R^3+552 r^4 R^3-218 l^2 r R^4+870 r^3 R^4-4 l^2 R^5+640 r^2 R^5+168 r R^6-4 R^7\right)\right)\Big/\left((r+R)^2\left(-2 l^2+2 r^2+8 r R+5 R^2\right)^2\right)\right)\}$$

$$\{X54, KosnitaPoint, X64, ISOGONAL\ CONJUGATE\ OF\ X(20),$$
$$\frac{1}{(l-r-2R)^2(l+r+2R)^2\left(2 l^2-2 r^2-8 r R-5 R^2\right)^2}$$
$$9 R^2\left(4 l^8-16 l^6 r^2+24 l^4 r^4-16 l^2 r^6+4 r^8-64 l^6 r R+192 l^4 r^3 R-192 l^2 r^5 R+64 r^7 R-59 l^6 R^2+565 l^4 r^2 R^2-949 l^2 r^4 R^2+443 r^6 R^2+708 l^4 r R^3-2456 l^2 r^3 R^3+1732 r^5 R^3+312 l^4 R^4-3468 l^2 r^2 R^4+4168 r^4 R^4-2496 l^2 r R^5+6272 r^3 R^5-704 l^2 R^6+5696 r^2 R^6+2816 r R^7+576 R^8\right)\}$$

$$\{X54, KosnitaPoint, X65, ORTHOCENTER\ OF\ THE\ INTOUCH\ TRIANGLE,$$
$$\frac{(2 r+R)^2\left(-2 l^4 r+4 l^2 r^3-2 r^5+18 l^2 r^2 R-18 r^4 R+17 l^2 r R^2-57 r^3 R^2-l^2 R^3-74 r^2 R^3-32 r R^4+4 R^5\right)}{R\left(-2 l^2+2 r^2+8 r R+5 R^2\right)^2}$$
$$\}$$

$$\{X54, KosnitaPoint, X66, ISOGONAL\ CONJUGATE\ OF\ X(22),$$
$$-\left(\left(\left(l^2-r^2-4 r R-R^2\right)^2\left(2 l^{10}-34 l^8 r^2+92 l^6 r^4-92 l^4 r^6+34 l^2 r^8-2 r^{10}-40 l^8 r R+448 l^6 r^3 R-816 l^4 r^5 R+448 l^2 r^7 R-40 r^9 R-19 l^8 R^2+656 l^6 r^2 R^2-2746 l^4 r^4 R^2+2448 l^2 r^6 R^2-339 r^8 R^2+304 l^6 r R^3-4272 l^4 r^3 R^3+7088 l^2 r^5 R^3-1584 r^7 R^3+60 l^6 R^4-2964 l^4 r^2 R^4+11508 l^2 r^4 R^4-4444 r^6 R^4-720 l^4 r R^5+10144 l^2 r^3 R^5-7632 r^5 R^5-64 l^4 R^6+4208 l^2 r^2 R^6-7808 r^4 R^6+512 l^2 r R^7-4352 r^3 R^7-1024 r^2 R^8\right)\right)\Big/\left((l-r-2R)^2(l+r+2R)^2\left(l^2-r^2-4 r R\right)^2\left(2 l^2-2 r^2-8 r R-5 R^2\right)^2\right)\right)\}$$

$$\{X54, KosnitaPoint, X67, ISOGONAL\ CONJUGATE\ OF\ X(23),$$
$$\left(\left(2 l^2-2 r^2-8 r R-3 R^2\right)^2\left(16 l^6 r^2-32 l^4 r^4+16 l^2 r^6-128 l^4 r^3 R+128 l^2 r^5 R+l^6 R^2-143 l^4 r^2 R^2+399 l^2 r^4 R^2-r^6 R^2-12 l^4 r R^3+584 l^2 r^3 R^3-12 r^5 R^3-4 l^4 R^4+356 l^2 r^2 R^4-52 r^4 R^4+32 l^2 r R^5-96 r^3 R^5-64 r^2 R^6\right)\right)\Big/\left(\left(l^2-r^2-4 r R\right)^2\left(2 l^2-2 r^2-8 r R-9 R^2\right)\left(2 l^2-2 r^2-8 r R-5 R^2\right)^2\right)\}$$

$$\{X54, KosnitaPoint, X68, PRASOLOV\ POINT,$$
$$-\left(\left(\left(l^2-r^2-4 r R-3 R^2\right)^2\left(2 l^6-30 l^4 r^2+30 l^2 r^4-2 r^6-24 l^4 r R+144 l^2 r^3 R-24 r^5 R-19 l^4 R^2+266 l^2 r^2 R^2-115 r^4 R^2+152 l^2 r R^3-280 r^3 R^3+44 l^2 R^4-348 r^2 R^4-176 r R^5-36 R^6\right)\right)\Big/\left((l-r-2R)^2(l+r+2R)^2\left(2 l^2-2 r^2-8 r R-5 R^2\right)^2\right)\right)\}$$

$$\{X54, \text{KosnitaPoint}, X69, \text{SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},$$
$$\left(\left(l^2-r^2-4rR-2R^2\right)^2\left(2l^6+34l^4r^2-34l^2r^4-2r^6-24l^4rR-112l^2r^3R-24r^5R+l^4R^2-206l^2r^2R^2-95r^4R^2-8l^2rR^3-120r^3R^3+16r^2R^4\right)\right)\Big/\left(\left(l^2-r^2-4rR\right)^2\left(2l^2-2r^2-8rR-5R^2\right)^2\right)\}$$

$$\{X54, \text{KosnitaPoint}, X70, \text{ISOGONAL CONJUGATE OF } X(26),$$
$$-\left(\left(\left(l^2-r^2-4rR-2R^2\right)^2\left(2l^{10}-34l^8r^2+92l^6r^4-92l^4r^6+34l^2r^8-2r^{10}-40l^8rR+448l^6r^3R-816l^4r^5R+448l^2r^7R-40r^9R-27l^8R^2+720l^6r^2R^2-2858l^4r^4R^2+2512l^2r^6R^2-347r^8R^2+432l^6rR^3-4912l^4r^3R^3+7728l^2r^5R^3-1712r^7R^3+138l^6R^4-4198l^4r^2R^4+14022l^2r^4R^4-5290r^6R^4-1656l^4rR^5+14992l^2r^3R^5-10616r^5R^5-325l^4R^6+8902l^2r^2R^6-13861r^4R^6+2600l^2rR^7-11432r^3R^7+344l^2R^8-5544r^2R^8-1376rR^9-144R^{10}\right)\right)\Big/\left(\left(2l^2-2r^2-8rR-5R^2\right)^2\left(l^4-2l^2r^2+r^4-8l^2rR+8r^3R-6l^2R^2+22r^2R^2+24rR^3+7R^4\right)^2\right)\right)\}$$

$$\{X54, \text{KosnitaPoint}, X71, \text{ISOGONAL CONJUGATE OF } X(27),$$
$$\frac{R^2\left(3l^2-r^2-4rR-4R^2\right)^2\left(4l^4-12l^2r^2-32l^2rR-11l^2R^2+r^2R^2+8rR^3+16R^4\right)}{\left(2l^2-2r^2-8rR-5R^2\right)^2\left(l^2+r^2+6rR+8R^2\right)^2}\}$$

$$\{X54, \text{KosnitaPoint}, X72, \text{ISOGONAL CONJUGATE OF } X(28),$$
$$\frac{\left(-l^2+r^2+3rR+2R^2\right)^2\left(4l^2r-4r^3+2l^2R-26r^2R-42rR^2+R^3\right)}{R\left(-2l^2+2r^2+8rR+5R^2\right)^2}\}$$

$$\{X54, \text{KosnitaPoint}, X73, \text{CROSSPOINT OF INCENTER AND CIRCUMCENTER},$$
$$-\frac{(2r-R)R^2\left(l^2-3r^2-8rR-4R^2\right)^2\left(6l^2r-2r^3-l^2R-13r^2R-20rR^2+4R^3\right)}{\left(2l^2-2r^2-8rR-5R^2\right)^2\left(l^2+r^2-2rR-4R^2\right)^2}\}$$

$$\{X54, \text{KosnitaPoint}, X74, \text{ISOGONAL CONJUGATE OF EULER INFINITY POINT},$$
$$\left(4R^2\left(6l^6-26l^4r^2+26l^2r^4-6r^6-72l^4rR+176l^2r^3R-72r^5R-53l^4R^2+422l^2r^2R^2-341r^4R^2+424l^2rR^3-808r^3R^3+152l^2R^4-1000r^2R^4-608rR^5-144R^6\right)\right)\Big/\left(\left(2l^2-2r^2-8rR-9R^2\right)\left(2l^2-2r^2-8rR-5R^2\right)^2\right)\}$$

$$\{X54, \text{KosnitaPoint}, X75, \text{ISOTOMIC CONJUGATE OF INCENTER}, \frac{1}{\left(l^2+r^2+4rR\right)^2\left(2l^2-2r^2-8rR-5R^2\right)^2}$$
$$\left(2l^{10}+6l^8r^2+4l^6r^4-4l^4r^6-6l^2r^8-2r^{10}-56l^8rR+144l^6r^3R-224l^4r^5R+48l^2r^7R-40r^9R-7l^8R^2+388l^6r^2R^2-1258l^4r^4R^2+836l^2r^6R^2-327r^8R^2+216l^6rR^3-2208l^4r^3R^3+3352l^2r^5R^3-1392r^7R^3+4l^6R^4-1292l^4r^2R^4+5452l^2r^4R^4-3236r^6R^4-224l^4rR^5+3792l^2r^3R^5-3888r^5R^5+4l^4R^6+984l^2r^2R^6-1980r^4R^6+32l^2rR^7-224r^3R^7+64r^2R^8\right)\}$$

$$\{X54, \text{KosnitaPoint}, X76, \text{3rd BROCARD POINT},$$
$$\left(2l^{14}+10l^{12}r^2+18l^{10}r^4+10l^8r^6-10l^6r^8-18l^4r^{10}-10l^2r^{12}-2r^{14}-56l^{12}rR-144l^{10}r^3R-72l^8r^5R+32l^6r^7R-72l^4r^9R-144l^2r^{11}R-56r^{13}R-7l^{12}R^2+374l^{10}r^2R^2+1399l^8r^4R^2-1868l^6r^6R^2+1111l^4r^8R^2-778l^2r^{10}R^2-679r^{12}R^2+168l^{10}rR^3+120l^8r^3R^3-9392l^6r^5R^3+9648l^4r^7R^3-2040l^2r^9R^3-4648r^{11}R^3+4l^{10}R^4-612l^8r^2R^4-12056l^6r^4R^4+30840l^4r^6R^4-3948l^2r^8R^4-19604r^{10}R^4-80l^8rR^5-3776l^6r^3R^5+46112l^4r^5R^5-11456l^2r^7R^5-52048r^9R^5+4l^8R^6-384l^6r^2R^6+27768l^4r^4R^6-27264l^2r^6R^6-84860r^8R^6-64l^6rR^7+5696l^4r^3R^7-29760l^2r^5R^7-78272r^7R^7+384l^4r^2R^8-11776l^2r^4R^8-33408r^6R^8-1024l^2r^3R^9-3072r^5R^9+1024r^4R^{10}\right)\Big/\left(\left(2l^2-2r^2-8rR-5R^2\right)^2\left(l^4+2l^2r^2+r^4-8l^2rR+8r^3R+16r^2R^2\right)^2\right)\}$$

$$\{X54, \text{KosnitaPoint}, X77, \text{ISOGONAL CONJUGATE OF } X(33),$$
$$-\frac{1}{\left(2l^2-2r^2-8rR-5R^2\right)^2\left(l^2-rR-4R^2\right)^2}R\left(2l^8r-10l^6r^3+14l^4r^5-6l^2r^7-42l^6r^2R+122l^4r^4R-74l^2r^6R+2r^8R-29l^6rR^2+372l^4r^3R^2-415l^2r^5R^2+40r^7R^2+l^6R^3+450l^4r^2R^3-1324l^2r^4R^3+327r^6R^3+150l^4rR^4-2262l^2r^3R^4+1392r^5R^4-12l^4R^5-1632l^2r^2R^5+3236r^4R^5-320l^2rR^6+3888r^3R^6+48l^2R^7+1980r^2R^7+224rR^8-64R^9\right)\}$$

$$\{X54, KosnitaPoint, X78, ISOGONAL\ CONJUGATE\ OF\ X(34),$$
$$-\left(\left(R\left(-2 l^6 r+10 l^4 r^3-14 l^2 r^5+6 r^7-2 l^6 R+26 l^4 r^2 R-82 l^2 r^4 R+66 r^6 R+61 l^4 r R^2-252 l^2 r^3 R^2+287 r^5 R^2+7 l^4 R^3-347 l^2 r^2 R^3+642 r^4 R^3-186 l^2 r R^4+802 r^3 R^4-4 l^2 R^5+532 r^2 R^5+144 r R^6-4 R^7\right)\right)\Big/\left((r-R)^2\left(-2 l^2+2 r^2+8 r R+5 R^2\right)^2\right)\right)\}$$

$$\{X54, KosnitaPoint, X79, ISOGONAL\ CONJUGATE\ OF\ X(35),$$
$$\left(-40 l^6 r^2+120 l^4 r^4-88 l^2 r^6+8 r^8-12 l^6 r R+468 l^4 r^3 R-692 l^2 r^5 R+108 r^7 R+428 l^4 r^2 R^2-1944 l^2 r^4 R^2+572 r^6 R^2+78 l^4 r R^3-2308 l^2 r^3 R^3+1486 r^5 R^3-1052 l^2 r^2 R^4+1924 r^4 R^4-132 l^2 r R^5+1124 r^3 R^5-9 l^2 R^6+283 r^2 R^6+84 r R^7+36 R^8\right)\Big/\left((2 r+3 R)^2\left(-2 l^2+2 r^2+8 r R+5 R^2\right)^2\right)\}$$

$$\{X54, KosnitaPoint, X80, REFLECTION\ OF\ INCENTER\ IN\ FEUERBACH\ POINT,$$
$$\left(-4 l^6 r+44 l^4 r^3-60 l^2 r^5+20 r^7+56 l^4 r^2 R-320 l^2 r^4 R+200 r^6 R+34 l^4 r R^2-524 l^2 r^3 R^2+754 r^5 R^2-344 l^2 r^2 R^3+1352 r^4 R^3-94 l^2 r R^4+1218 r^3 R^4+l^2 R^5+525 r^2 R^5+84 r R^6-4 R^7\right)\Big/\left((2 r-R)\left(-2 l^2+2 r^2+8 r R+5 R^2\right)^2\right)\}$$

$$\{X54, KosnitaPoint, X81, CEVAPOINT\ OF\ INCENTER\ AND\ SYMMEDIAN\ POINT,$$
$$-\frac{1}{\left(l^2-r^2-r R\right)^2\left(2 l^2-2 r^2-8 r R-5 R^2\right)^2}$$
$$R\left(2 l^8 r-4 l^4 r^5+2 r^9-14 l^6 r^2 R-30 l^4 r^4 R+14 l^2 r^6 R+30 r^8 R-13 l^6 r R^2-53 l^4 r^3 R^2+109 l^2 r^5 R^2+181 r^7 R^2+l^6 R^3-6 l^4 r^2 R^3+369 l^2 r^4 R^3+552 r^6 R^3+14 l^4 r R^4+460 l^2 r^3 R^4+870 r^5 R^4-4 l^4 R^5+192 l^2 r^2 R^5+640 r^4 R^5+8 l^2 r R^6+168 r^3 R^6-4 r^2 R^7\right)\}$$

$$\{X54, KosnitaPoint, X82, ISOGONAL\ CONJUGATE\ OF\ X(38),$$
$$-\left(\left(R\left(2 l^{12} r+4 l^{10} r^3-2 l^8 r^5-8 l^6 r^7-2 l^4 r^9+4 l^2 r^{11}+2 r^{13}-50 l^{10} r^2 R-22 l^8 r^4 R+28 l^6 r^6 R-28 l^4 r^8 R+22 l^2 r^{10} R+50 r^{12} R-13 l^{10} r R^2+465 l^8 r^3 R^2-378 l^6 r^5 R^2+362 l^4 r^7 R^2-313 l^2 r^9 R^2+517 r^{11} R^2+l^{10} R^3+222 l^8 r^2 R^3-2370 l^6 r^4 R^3+3568 l^4 r^6 R^3-3303 l^2 r^8 R^3+2826 r^{10} R^3-2 l^8 r R^4-1232 l^6 r^3 R^4+7884 l^4 r^5 R^4-11136 l^2 r^7 R^4+8550 r^9 R^4-4 l^8 R^5+56 l^6 r^2 R^5+2520 l^4 r^4 R^5-13480 l^2 r^6 R^5+13052 r^8 R^5+72 l^6 r R^6-1352 l^4 r^3 R^6+456 l^2 r^5 R^6+4984 r^7 R^6-548 l^4 r^2 R^7+6984 l^2 r^4 R^7-10308 r^6 R^7+2016 l^2 r^3 R^8-10912 r^5 R^8-3136 r^4 R^9\right)\right)\Big/\left(\left(2 l^2-2 r^2-8 r R-5 R^2\right)^2\left(l^4-4 l^2 r^2+3 r^4-9 l^2 r R+19 r^3 R+28 r^2 R^2\right)^2\right)\right)\}$$

$$\{X54, KosnitaPoint, X83, CEVAPOINT\ OF\ CENTROID\ AND\ SYMMEDIAN\ POINT,$$
$$-\left(\left(6 l^{14}-2 l^{12} r^2-42 l^{10} r^4-34 l^8 r^6+34 l^6 r^8+42 l^4 r^{10}+2 l^2 r^{12}-6 r^{14}-168 l^{12} r R+208 l^{10} r^3 R+296 l^8 r^5 R-160 l^6 r^7 R+296 l^4 r^9 R+208 l^2 r^{11} R-168 r^{13} R-45 l^{12} R^2+1826 l^{10} r^2 R^2-3523 l^8 r^4 R^2+3100 l^6 r^6 R^2-2339 l^4 r^8 R^2+3490 l^2 r^{10} R^2-2061 r^{12} R^2+1080 l^{10} r R^3-11480 l^8 r^3 R^3+24944 l^6 r^5 R^3-28272 l^4 r^7 R^3+26200 l^2 r^9 R^3-14520 r^{11} R^3+100 l^{10} R^4-10020 l^8 r^2 R^4+53992 l^6 r^4 R^4-103880 l^4 r^6 R^4+108340 l^2 r^8 R^4-64660 r^{10} R^4-2000 l^8 r R^5+50240 l^6 r^3 R^5-181472 l^4 r^5 R^5+264768 l^2 r^7 R^5-188624 r^9 R^5-100 l^8 R^6+16640 l^6 r^2 R^6-162744 l^4 r^4 R^6+387072 l^2 r^6 R^6-360932 r^8 R^6+1600 l^6 r R^7-70720 l^4 r^3 R^7+329280 l^2 r^5 R^7-440384 r^7 R^7-9600 l^4 r^2 R^8+151040 l^2 r^4 R^8-321920 r^6 R^8+25600 l^2 r^3 R^9-128000 r^5 R^9-25600 r^4 R^{10}\right)\Big/\left(\left(2 l^2-2 r^2-8 r R-5 R^2\right)^2\left(5 l^4-6 l^2 r^2+5 r^4-40 l^2 r R+40 r^3 R+80 r^2 R^2\right)^2\right)\right)\}$$

$$\{X54, KosnitaPoint, X84, ISOGONAL\ CONJUGATE\ OF\ X(40),$$
$$\left(R\left(12 l^6 r-16 l^4 r^3+4 l^2 r^5-16 l^6 R-76 l^4 r^2 R+52 l^2 r^4 R+82 l^4 r R^2+130 l^2 r^3 R^2+8 r^5 R^2+144 l^4 R^3-283 l^2 r^2 R^3+129 r^4 R^3-824 l^2 r R^4+696 r^3 R^4-420 l^2 R^5+1556 r^2 R^5+1360 r R^6+400 R^7\right)\right)\Big/\left(r^2\left(-2 l^2+2 r^2+8 r R+5 R^2\right)^2\right)\}$$

$$\left\{X54,\ KosnitaPoint,\ X85,\ ISOTOMIC\ CONJUGATE\ OF\ X(9),\ \frac{1}{\left(2 l^2-2 r^2-8 r R-5 R^2\right)^2 \left(l^2+r^2+8 r R+16 R^2\right)^2} \left(2 l^{10}+6 l^8 r^2+4 l^6 r^4-4 l^4 r^6-6 l^2 r^8-2 r^{10}-104 l^8 r R+240 l^6 r^3 R-160 l^4 r^5 R-48 l^2 r^7 R-56 r^9 R-39 l^8 R^2+1028 l^6 r^2 R^2-1386 l^4 r^4 R^2+196 l^2 r^6 R^2-679 r^8 R^2+1088 l^6 r R^3-4936 l^4 r^3 R^3+3408 l^2 r^5 R^3-4648 r^7 R^3+212 l^6 R^4-7612 l^4 r^2 R^4+14428 l^2 r^4 R^4-19604 r^6 R^4-3840 l^4 r R^5+26960 l^2 r^3 R^5-52048 r^5 R^5-348 l^4 R^6+21816 l^2 r^2 R^6-84860 r^4 R^6+5824 l^2 r R^7-78272 r^3 R^7-128 l^2 R^8-33408 r^2 R^8-3072 r R^9+1024 R^{10}\right)\right\}$$

$$\left\{X54,\ KosnitaPoint,\ X86,\ CEVAPOINT\ OF\ INCENTER\ AND\ CENTROID,\ -\frac{1}{\left(5 l^2+r^2+4 r R\right)^2 \left(2 l^2-2 r^2-8 r R-5 R^2\right)^2} \left(6 l^{10}-22 l^8 r^2-36 l^6 r^4+20 l^4 r^6+30 l^2 r^8+2 r^{10}-56 l^8 r R-128 l^6 r^3 R+208 l^4 r^5 R+320 l^2 r^7 R+40 r^9 R-45 l^8 R^2+48 l^6 r^2 R^2+878 l^4 r^4 R^2+1368 l^2 r^6 R^2+327 r^8 R^2+208 l^6 r R^3+1616 l^4 r^3 R^3+3056 l^2 r^5 R^3+1392 r^7 R^3+100 l^6 R^4+828 l^4 r^2 R^4+3580 l^2 r^4 R^4+3236 r^6 R^4-80 l^4 r R^5+1440 l^2 r^3 R^5+3888 r^5 R^5-100 l^4 R^6-184 l^2 r^2 R^6+1980 r^4 R^6-160 l^2 r R^7+224 r^3 R^7-64 r^2 R^8\right)\right\}$$

$$\left\{X54,\ KosnitaPoint,\ X87,\ X(2)\text{-}CROSS\ CONJUGATE\ OF\ X(1),\ \left(R \left(4 l^{12} r-28 l^8 r^5-32 l^6 r^7+12 l^4 r^9+32 l^2 r^{11}+12 r^{13}-124 l^{10} r^2 R+100 l^8 r^4 R+232 l^6 r^6 R-120 l^4 r^8 R+84 l^2 r^{10} R+212 r^{12} R-26 l^{10} r R^2+1206 l^8 r^3 R^2+92 l^6 r^5 R^2-2100 l^4 r^7 R^2+478 l^2 r^9 R^2+1438 r^{11} R^2-l^{10} R^3+759 l^8 r^2 R^3-5178 l^6 r^4 R^3-4226 l^4 r^6 R^3+6027 l^2 r^8 R^3+4315 r^{10} R^3+84 l^8 r R^4-6544 l^6 r^3 R^4+8024 l^4 r^5 R^4+17584 l^2 r^7 R^4+2932 r^9 R^4+4 l^8 R^5-1728 l^6 r^2 R^5+21608 l^4 r^4 R^5+4384 l^2 r^6 R^5-14860 r^8 R^5-160 l^6 r R^6+11872 l^4 r^3 R^6-33632 l^2 r^5 R^6-37472 r^7 R^6+1856 l^4 r^2 R^7-30592 l^2 r^4 R^7-29376 r^6 R^7-5120 l^2 r^3 R^8-3072 r^5 R^8+4096 r^4 R^9\right)\right) \Big/ \left(\left(2 l^2-2 r^2-8 r R-5 R^2\right)^2 \left(l^4+2 l^2 r^2+r^4-20 l^2 r R+12 r^3 R+32 r^2 R^2\right)^2\right)\right\}$$

$$\left\{X54,\ KosnitaPoint,\ X88,\ ISOGONAL\ CONJUGATE\ OF\ X(44),\ \frac{1}{\left(l^2+3 r^2-15 r R\right)^2 \left(2 l^2-2 r^2-8 r R-5 R^2\right)^2} R \left(2 l^8 r-8 l^6 r^3-204 l^4 r^5+264 l^2 r^7-54 r^9-50 l^6 r^2 R+190 l^4 r^4 R+1074 l^2 r^6 R-702 r^8 R-13 l^6 r R^2+303 l^4 r^3 R^2+2133 l^2 r^5 R^2-3591 r^7 R^2-l^6 R^3+310 l^4 r^2 R^3-609 l^2 r^4 R^3-8712 r^6 R^3+54 l^4 r R^4-1548 l^2 r^3 R^4-8586 r^5 R^4+4 l^4 R^5-816 l^2 r^2 R^5+576 r^4 R^5-120 l^2 r R^6+3240 r^3 R^6+900 r^2 R^7\right)\right\}$$

$$\left\{X54,\ KosnitaPoint,\ X89,\ ISOGONAL\ CONJUGATE\ OF\ X(45),\ -\frac{1}{\left(2 l^2-6 r^2+3 r R\right)^2 \left(2 l^2-2 r^2-8 r R-5 R^2\right)^2} R \left(4 l^8 r+56 l^6 r^3+144 l^4 r^5-312 l^2 r^7+108 r^9+50 l^6 r^2 R+2 l^4 r^4 R-2130 l^2 r^6 R+1566 r^8 R-26 l^6 r R^2-990 l^4 r^3 R^2-6174 l^2 r^5 R^2+9126 r^7 R^2+4 l^6 R^3-607 l^4 r^2 R^3-3858 l^2 r^4 R^3+26721 r^6 R^3+36 l^4 r R^4+1944 l^2 r^3 R^4+39636 r^5 R^4-16 l^4 R^5+1452 l^2 r^2 R^5+26100 r^4 R^5-48 l^2 r R^6+6048 r^3 R^6-36 r^2 R^7\right)\right\}$$

$$\left\{X54,\ KosnitaPoint,\ X90,\ X(3)\text{-}CROSS\ CONJUGATE\ OF\ X(1),\ \left(R \left(12 l^6 r^3-16 l^4 r^5+4 l^2 r^7-8 l^6 r^2 R-76 l^4 r^4 R+44 l^2 r^6 R+4 l^6 r R^2-38 l^4 r^3 R^2+158 l^2 r^5 R^2+16 l^4 r^2 R^3+209 l^2 r^4 R^3-3 r^6 R^3-34 l^4 r R^4+126 l^2 r^3 R^4-40 r^5 R^4+132 l^2 r^2 R^5-192 r^4 R^5+96 l^2 r R^6-396 r^3 R^6-l^2 R^7-325 r^2 R^7-92 r R^8+4 R^9\right)\right) \Big/ \left(\left(2 l^2-2 r^2-8 r R-5 R^2\right)^2 \left(r^2+2 r R-R^2\right)^2\right)\right\}$$

$$\{X54, KosnitaPoint, X91, ISOGONAL\ CONJUGATE\ OF\ X(47),$$
$$\big(2 l^{10} r^2 + 6 l^8 r^4 + 4 l^6 r^6 - 4 l^4 r^8 - 6 l^2 r^{10} - 2 r^{12} + 2 l^{10} r R - 74 l^8 r^3 R + 132 l^6 r^5 R - 196 l^4 r^7 R +$$
$$58 l^2 r^9 R - 50 r^{11} R - 67 l^8 r^2 R^2 + 684 l^6 r^4 R^2 - 1450 l^4 r^6 R^2 + 1116 l^2 r^8 R^2 - 523 r^{10} R^2 -$$
$$25 l^8 r R^3 + 1096 l^6 r^3 R^3 - 4506 l^4 r^5 R^3 + 5936 l^2 r^7 R^3 - 3029 r^9 R^3 + 570 l^6 r^2 R^4 - 7106 l^4 r^4 R^4 +$$
$$15966 l^2 r^6 R^4 - 10790 r^8 R^4 + 124 l^6 r R^5 - 5688 l^4 r^3 R^5 + 24956 l^2 r^5 R^5 - 24816 r^7 R^5 - l^6 R^6 -$$
$$2055 l^4 r^2 R^6 + 23309 l^2 r^4 R^6 - 37661 r^6 R^6 - 296 l^4 r R^7 + 12448 l^2 r^3 R^7 - 37816 r^5 R^7 + 8 l^4 R^8 +$$
$$3328 l^2 r^2 R^8 - 24552 r^4 R^8 + 320 l^2 r R^9 - 9648 r^3 R^9 - 20 l^2 R^{10} - 1956 r^2 R^{10} - 112 r R^{11} + 16 R^{12}\big) /$$
$$\big((2 l^2 - 2 r^2 - 8 r R - 5 R^2)^2 (l^2 r + r^3 - l^2 R + 3 r^2 R + 2 r R^2 + 2 R^3)^2\big)\}$$

$$\{X54, KosnitaPoint, X92, CEVAPOINT\ OF\ INCENTER\ AND\ CLAWSON\ POINT,$$
$$\frac{1}{(2 l^2 - 2 r^2 - 8 r R - 5 R^2)^2 (l^2 + r^2 - 4 R^2)^2}$$
$$\big(2 l^{10} + 6 l^8 r^2 + 4 l^6 r^4 - 4 l^4 r^6 - 6 l^2 r^8 - 2 r^{10} - 80 l^8 r R + 128 l^6 r^3 R - 192 l^4 r^5 R +$$
$$64 l^2 r^7 R - 48 r^9 R - 23 l^8 R^2 + 724 l^6 r^2 R^2 - 1466 l^4 r^4 R^2 + 1140 l^2 r^6 R^2 - 487 r^8 R^2 +$$
$$852 l^6 r R^3 - 4540 l^4 r^3 R^3 + 5932 l^2 r^5 R^3 - 2756 r^7 R^3 + 92 l^6 R^4 - 6220 l^4 r^2 R^4 + 15428 l^2 r^4 R^4 -$$
$$9620 r^6 R^4 - 3224 l^4 r R^5 + 22000 l^2 r^3 R^5 - 21528 r^5 R^5 - 140 l^4 R^6 + 16472 l^2 r^2 R^6 -$$
$$30924 r^4 R^6 + 5088 l^2 r R^7 - 27488 r^3 R^7 + 32 l^2 R^8 - 13664 r^2 R^8 - 2816 r R^9 + 64 R^{10}\big)\}$$

$$\{X54, KosnitaPoint, X93, ISOGONAL\ CONJUGATE\ OF\ X(49),$$
$$\big(2 l^{14} + 10 l^{12} r^2 + 18 l^{10} r^4 + 10 l^8 r^6 - 10 l^6 r^8 - 18 l^4 r^{10} - 10 l^2 r^{12} - 2 r^{14} - 56 l^{12} r R - 144 l^{10} r^3 R -$$
$$72 l^8 r^5 R + 32 l^6 r^7 R - 72 l^4 r^9 R - 144 l^2 r^{11} R - 56 r^{13} R - 19 l^{12} R^2 + 158 l^{10} r^2 R^2 + 1411 l^8 r^4 R^2 -$$
$$1436 l^6 r^6 R^2 + 1123 l^4 r^8 R^2 - 994 l^2 r^{10} R^2 - 691 r^{12} R^2 + 456 l^{10} r R^3 + 3288 l^8 r^3 R^3 - 12656 l^6 r^5 R^3 +$$
$$12912 l^4 r^7 R^3 - 5208 l^2 r^9 R^3 - 4936 r^{11} R^3 + 14 l^{10} R^4 + 1082 l^8 r^2 R^4 - 35908 l^6 r^4 R^4 + 61220 l^4 r^6 R^4 -$$
$$24650 l^2 r^8 R^4 - 22494 r^{10} R^4 - 280 l^8 r R^5 - 43104 l^6 r^3 R^5 + 159344 l^4 r^5 R^5 - 93792 l^2 r^7 R^5 -$$
$$67608 r^9 R^5 + 430 l^8 R^6 - 23096 l^6 r^2 R^6 + 237940 l^4 r^4 R^6 - 250296 l^2 r^6 R^6 - 132114 r^8 R^6 - 6880 l^6 r R^7 +$$
$$200608 l^4 r^3 R^7 - 440480 l^2 r^5 R^7 - 151584 r^7 R^7 - 1988 l^6 R^8 + 92572 l^4 r^2 R^8 - 493788 l^2 r^4 R^8 -$$
$$52476 r^6 R^8 + 23856 l^4 r R^9 - 339104 l^2 r^3 R^9 + 119600 r^5 R^9 + 3757 l^4 R^{10} - 135734 l^2 r^2 R^{10} +$$
$$209261 r^4 R^{10} - 30056 l^2 r R^{11} + 157288 r^3 R^{11} - 3384 l^2 R^{12} + 63496 r^2 R^{12} + 13536 r R^{13} + 1296 R^{14}\big) /$$
$$\big((2 l^2 - 2 r^2 - 8 r R - 5 R^2)^2 (l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 8 l^2 R^2 + 24 r^2 R^2 + 32 r R^3 + 13 R^4)^2\big)\}$$

$$\{X54, KosnitaPoint, X94, ISOGONAL\ CONJUGATE\ OF\ X(50),$$
$$\big(2 l^{14} + 10 l^{12} r^2 + 18 l^{10} r^4 + 10 l^8 r^6 - 10 l^6 r^8 - 18 l^4 r^{10} - 10 l^2 r^{12} - 2 r^{14} - 56 l^{12} r R - 144 l^{10} r^3 R -$$
$$72 l^8 r^5 R + 32 l^6 r^7 R - 72 l^4 r^9 R - 144 l^2 r^{11} R - 56 r^{13} R - 19 l^{12} R^2 + 158 l^{10} r^2 R^2 + 1411 l^8 r^4 R^2 -$$
$$1436 l^6 r^6 R^2 + 1123 l^4 r^8 R^2 - 994 l^2 r^{10} R^2 - 691 r^{12} R^2 + 456 l^{10} r R^3 + 3288 l^8 r^3 R^3 - 12656 l^6 r^5 R^3 +$$
$$12912 l^4 r^7 R^3 - 5208 l^2 r^9 R^3 - 4936 r^{11} R^3 + 10 l^{10} R^4 + 1134 l^8 r^2 R^4 - 35852 l^6 r^4 R^4 + 61164 l^4 r^6 R^4 -$$
$$24702 l^2 r^8 R^4 - 22490 r^{10} R^4 - 200 l^8 r R^5 - 43808 l^6 r^3 R^5 + 159824 l^4 r^5 R^5 - 94496 l^2 r^7 R^5 -$$
$$67528 r^9 R^5 + 520 l^8 R^6 - 24816 l^6 r^2 R^6 + 242640 l^4 r^4 R^6 - 254832 l^2 r^6 R^6 - 131384 r^8 R^6 - 8320 l^6 r R^7 +$$
$$213248 l^4 r^3 R^7 - 457728 l^2 r^5 R^7 - 147584 r^7 R^7 - 2616 l^6 R^8 + 106728 l^4 r^2 R^8 - 533224 l^2 r^4 R^8 -$$
$$38088 r^6 R^8 + 31392 l^4 r R^9 - 391744 l^2 r^3 R^9 + 154272 r^5 R^9 + 5679 l^4 R^{10} - 174834 l^2 r^2 R^{10} +$$
$$264367 r^4 R^{10} - 45432 l^2 r R^{11} + 212856 r^3 R^{11} - 6156 l^2 R^{12} + 97020 r^2 R^{12} + 24624 r R^{13} + 2916 R^{14}\big) /$$
$$\big((2 l^2 - 2 r^2 - 8 r R - 5 R^2)^2 (l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 12 l^2 R^2 + 28 r^2 R^2 + 48 r R^3 + 27 R^4)^2\big)\}$$

$$\{X54, KosnitaPoint, X95, CEVAPOINT\ OF\ CENTROID\ AND\ CIRCUMCENTER,$$
$$\big((l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 6 l^2 R^2 + 22 r^2 R^2 + 24 r R^3 + 8 R^4)^2 (2 l^6 + 34 l^4 r^2 - 34 l^2 r^4 - 2 r^6 -$$
$$24 l^4 r R - 112 l^2 r^3 R - 24 r^5 R + l^4 R^2 - 206 l^2 r^2 R^2 - 95 r^4 R^2 - 8 l^2 r R^3 - 120 r^3 R^3 + 16 r^2 R^4)\big) /$$
$$\big((2 l^2 - 2 r^2 - 8 r R - 5 R^2)^2 (l^4 + 18 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 4 l^2 R^2 + 20 r^2 R^2 + 16 r R^3)^2\big)\}$$

$$\{X54, KosnitaPoint, X96, ISOGONAL\ CONJUGATE\ OF\ X(52),$$
$$-\big(\big((l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 6 l^2 R^2 + 22 r^2 R^2 + 24 r R^3 + 8 R^4)^2$$
$$(2 l^6 - 30 l^4 r^2 + 30 l^2 r^4 - 2 r^6 - 24 l^4 r R + 144 l^2 r^3 R - 24 r^5 R - 19 l^4 R^2 + 266 l^2 r^2 R^2 -$$
$$115 r^4 R^2 + 152 l^2 r R^3 - 280 r^3 R^3 + 44 l^2 R^4 - 348 r^2 R^4 - 176 r R^5 - 36 R^6)\big) /$$
$$\big((2 l^2 - 2 r^2 - 8 r R - 5 R^2)^2 (l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2 - 4 R^4)^2\big)\big)\}$$

$$\{X54, KosnitaPoint, X97, ISOGONAL\ CONJUGATE\ OF\ X(53), \left(R^2 \left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-6 l^2 R^2+22 r^2 R^2+24 r R^3+8 R^4\right)^2 \left(2 l^4-12 l^2 r^2+2 r^4-16 l^2 r R+16 r^3 R-8 l^2 R^2+40 r^2 R^2+32 r R^3+9 R^4\right)\right) / \left(\left(2 l^2-2 r^2-8 r R-5 R^2\right)^2 \left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-7 l^2 R^2+23 r^2 R^2+28 r R^3+12 R^4\right)^2\right)\}$$

$$\{X54, KosnitaPoint, X98, TarryPoint, -\left(\left(2 l^{10}+6 l^8 r^2+4 l^6 r^4-4 l^4 r^6-6 l^2 r^8-2 r^{10}-40 l^8 r R-32 l^6 r^3 R+16 l^4 r^5 R-32 l^2 r^7 R-40 r^9 R-19 l^8 R^2+276 l^6 r^2 R^2-242 l^4 r^4 R^2+148 l^2 r^6 R^2-339 r^8 R^2+304 l^6 r R^3-1232 l^4 r^3 R^3+1488 l^2 r^5 R^3-1584 r^7 R^3+60 l^6 R^4-1796 l^4 r^2 R^4+4260 l^2 r^4 R^4-4444 r^6 R^4-720 l^4 r R^5+5472 l^2 r^3 R^5-7632 r^5 R^5-64 l^4 R^6+3056 l^2 r^2 R^6-7808 r^4 R^6+512 l^2 r R^7-4352 r^3 R^7-1024 r^2 R^8\right) / \left(\left(2 l^2-2 r^2-8 r R-5 R^2\right)^2 \left(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)\right)\right)\}$$

$$\{X54, KosnitaPoint, X99, STEINER\ POINT, \left(2 l^{10}+6 l^8 r^2+4 l^6 r^4-4 l^4 r^6-6 l^2 r^8-2 r^{10}-40 l^8 r R-32 l^6 r^3 R+16 l^4 r^5 R-32 l^2 r^7 R-40 r^9 R-7 l^8 R^2+68 l^6 r^2 R^2+342 l^4 r^4 R^2-60 l^2 r^6 R^2-327 r^8 R^2+112 l^6 r R^3+624 l^4 r^3 R^3-368 l^2 r^5 R^3-1392 r^7 R^3+4 l^6 R^4+196 l^4 r^2 R^4-1444 l^2 r^4 R^4-3236 r^6 R^4-48 l^4 r R^5-1632 l^2 r^3 R^5-3888 r^5 R^5+4 l^4 R^6-584 l^2 r^2 R^6-1980 r^4 R^6-32 l^2 r R^7-224 r^3 R^7+64 r^2 R^8\right) / \left(\left(2 l^2-2 r^2-8 r R-5 R^2\right)^2 \left(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)\right)\}$$

$$\{X54, KosnitaPoint, X100, ANTICOMPLEMENT\ OF\ FEUERBACH\ POINT, \left(R \left(-2 l^6-2 l^4 r^2+2 l^2 r^4+2 r^6+44 l^4 r R-56 l^2 r^3 R+28 r^5 R+7 l^4 R^2-186 l^2 r^2 R^2+143 r^4 R^2-140 l^2 r R^3+324 r^3 R^3-4 l^2 R^4+312 r^2 R^4+104 r R^5-4 R^6\right)\right) / \left((2 r-R) \left(-2 l^2+2 r^2+8 r R+5 R^2\right)^2\right)\}$$

$$\{X55, INSIMILICENTER(CIRCUMCIRCLE, INCIRCLE), X56, EXSIMILICENTER(CIRCUMCIRCLE, INCIRCLE), -\frac{4 r^2 (2 r-R) R^3}{(r-R)^2 (r+R)^2}\}$$

$$\{X55, INSIMILICENTER(CIRCUMCIRCLE, INCIRCLE), X57, ISOGONAL\ CONJUGATE\ OF\ X(9), -\frac{r^2 (2 r-R) R (r+4 R)^2}{(r-2 R)^2 (r+R)^2}\}$$

$$\{X55, INSIMILICENTER(CIRCUMCIRCLE, INCIRCLE), X58, ISOGONAL\ CONJUGATE\ OF\ X(10), -\frac{r^2 R^2 \left(-3 l^4+18 l^2 r^2+5 r^4+20 l^2 r R+52 r^3 R-4 l^2 R^2+108 r^2 R^2+64 r R^3\right)}{(r+R)^2 \left(-l^2+3 r^2+4 r R\right)^2}\}$$

$$\{X55, INSIMILICENTER(CIRCUMCIRCLE, INCIRCLE), X59, ISOGONAL\ CONJUGATE\ OF\ X(11), -\frac{r^2 R^2 \left(-3 l^4 r+6 l^2 r^3+r^5+6 l^4 R+14 r^4 R-45 l^2 r R^2+73 r^3 R^2-39 l^2 R^3+172 r^2 R^3+176 r R^4+64 R^5\right)}{(2 r-R) (r+R)^2 \left(-l^2+r^2+5 r R+4 R^2\right)^2}\}$$

$$\{X55, INSIMILICENTER(CIRCUMCIRCLE, INCIRCLE), X60, ISOGONAL\ CONJUGATE\ OF\ X(12), -\left(\left(r^2 R^2 \left(-6 l^4 r^2+12 l^2 r^4+2 r^6-3 l^4 r R+38 l^2 r^3 R+25 r^5 R+26 l^2 r^2 R^2+114 r^4 R^2-21 l^2 r R^3+259 r^3 R^3-9 l^2 R^4+300 r^2 R^4+144 r R^5\right)\right) / \left((r+R)^2 \left(-2 l^2 r+2 r^3-l^2 R+7 r^2 R+7 r R^2\right)^2\right)\right)\}$$

$$\{X55, INSIMILICENTER(CIRCUMCIRCLE, INCIRCLE), X61, ISOGONAL\ CONJUGATE\ OF\ X(17), -\left(\left(3 r^2 R^2 \left(-9 l^4-4 \sqrt{3}\, l^3 r+42 l^2 r^2-4 \sqrt{3}\, l r^3+3 r^4+8 \sqrt{3}\, l^3 R+92 l^2 r R-32 \sqrt{3}\, l r^2 R+36 r^3 R-16 l^2 R^2-64 \sqrt{3}\, l r R^2+144 r^2 R^2+192 r R^3\right)\right) / \left((r+R)^2 \left(3 l^2+2 \sqrt{3}\, l r-3 r^2-12 r R\right)^2\right)\right)\}$$

$$\{X55, INSIMILICENTER(CIRCUMCIRCLE, INCIRCLE), X62, ISOGONAL\ CONJUGATE\ OF\ X(18), -\left(\left(3 r^2 R^2 \left(-9 l^4+4 \sqrt{3}\, l^3 r+42 l^2 r^2+4 \sqrt{3}\, l r^3+3 r^4-8 \sqrt{3}\, l^3 R+92 l^2 r R+32 \sqrt{3}\, l r^2 R+36 r^3 R-16 l^2 R^2+64 \sqrt{3}\, l r R^2+144 r^2 R^2+192 r R^3\right)\right) / \left((r+R)^2 \left(3 l^2-2 \sqrt{3}\, l r-3 r^2-12 r R\right)^2\right)\right)\}$$

$$\{X55, INSIMILICENTER(CIRCUMCIRCLE, INCIRCLE), X63, ISOGONAL\ CONJUGATE\ OF\ X(19), -\frac{R \left(-l^2 r+r^3-l^2 R+8 r^2 R+16 r R^2\right)}{(r+R)^2}\}$$

$$\left\{X55,\ \text{INSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ X64,\ \text{ISOGONAL CONJUGATE OF } X(20),\ \frac{R^2\,(r+2R)^2\,\left(3\,l^4-6\,l^2\,r^2+7\,r^4-28\,l^2\,r\,R+36\,r^3\,R-28\,l^2\,R^2+96\,r^2\,R^2+128\,r\,R^3+64\,R^4\right)}{(r+R)^2\,(-l+r+2R)^2\,(l+r+2R)^2}\right\}$$

$$\left\{X55,\ \text{INSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ X65,\ \text{ORTHOCENTER OF THE INTOUCH TRIANGLE},\ \frac{r^2\,(-2r+R)\,(r+2R)^2}{R\,(r+R)^2}\right\}$$

$$\left\{X55,\ \text{INSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ X66,\ \text{ISOGONAL CONJUGATE OF } X(22),\ \frac{1}{(r+R)^2\,(-l+r+2R)^2\,(l+r+2R)^2\,\left(-l^2+r^2+4\,r\,R\right)^2}\right.$$
$$\left(-l^{10}\,r^2+9\,l^8\,r^4-22\,l^6\,r^6+22\,l^4\,r^8-9\,l^2\,r^{10}+r^{12}-l^{10}\,r\,R+35\,l^8\,r^3\,R-170\,l^6\,r^5\,R+262\,l^4\,r^7\,R-149\,l^2\,r^9\,R+23\,r^{11}\,R+34\,l^8\,r^2\,R^2-452\,l^6\,r^4\,R^2+1220\,l^4\,r^6\,R^2-1028\,l^2\,r^8\,R^2+226\,r^{10}\,R^2+4\,l^8\,r\,R^3-472\,l^6\,r^3\,R^3+2776\,l^4\,r^5\,R^3-3800\,l^2\,r^7\,R^3+1236\,r^9\,R^3-l^8\,R^4-136\,l^6\,r^2\,R^4+3098\,l^4\,r^4\,R^4-8024\,l^2\,r^6\,R^4+4103\,r^8\,R^4+24\,l^6\,r\,R^5+1376\,l^4\,r^3\,R^5-9448\,l^2\,r^5\,R^5+8432\,r^7\,R^5+4\,l^6\,R^6-12\,l^4\,r^2\,R^6-5380\,l^2\,r^4\,R^6+10\,396\,r^6\,R^6-80\,l^4\,r\,R^7-736\,l^2\,r^3\,R^7+6864\,r^5\,R^7+272\,l^2\,r^2\,R^8+1600\,r^4\,R^8-256\,r^3\,R^9\right)\Big\}$$

$$\left\{X55,\ \text{INSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ X67,\ \text{ISOGONAL CONJUGATE OF } X(23),\ \frac{1}{(r+R)^2\,\left(-l^2+r^2+4\,r\,R\right)^2\,\left(-2\,l^2+2\,r^2+8\,r\,R+9\,R^2\right)}\right.$$
$$\left(l^8\,r^2-16\,l^6\,r^4+30\,l^4\,r^6-16\,l^2\,r^8+r^{10}-44\,l^6\,r^3\,R+204\,l^4\,r^5\,R-180\,l^2\,r^7\,R+20\,r^9\,R-l^8\,R^2-16\,l^6\,r^2\,R^2+462\,l^4\,r^4\,R^2-800\,l^2\,r^6\,R^2+163\,r^8\,R^2+22\,l^6\,r\,R^3+342\,l^4\,r^3\,R^3-1726\,l^2\,r^5\,R^3+690\,r^7\,R^3+4\,l^6\,R^4-45\,l^4\,r^2\,R^4-1722\,l^2\,r^4\,R^4+1591\,r^6\,R^4-72\,l^4\,r\,R^5-500\,l^2\,r^3\,R^5+1876\,r^5\,R^5+132\,l^2\,r^2\,R^6+848\,r^4\,R^6-64\,r^3\,R^7\right)\Big\}$$

$$\left\{X55,\ \text{INSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ X68,\ \text{PRASOLOV POINT},\ \left(-l^6\,r^2+7\,l^4\,r^4-7\,l^2\,r^6+r^8-l^6\,r\,R+25\,l^4\,r^3\,R-55\,l^2\,r^5\,R+15\,r^7\,R+28\,l^4\,r^2\,R^2-172\,l^2\,r^4\,R^2+92\,r^6\,R^2+8\,l^4\,r\,R^3-248\,l^2\,r^3\,R^3+296\,r^5\,R^3+l^4\,R^4-150\,l^2\,r^2\,R^4+529\,r^4\,R^4-24\,l^2\,r\,R^5+504\,r^3\,R^5-4\,l^2\,R^6+216\,r^2\,R^6+24\,r\,R^7+4\,R^8\right)\Big/\left((r+R)^2\,(-l+r+2R)^2\,(l+r+2R)^2\right)\right\}$$

$$\left\{X55,\ \text{INSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ X69,\ \text{SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},\ \frac{1}{(r+R)^2\,\left(-l^2+r^2+4\,r\,R\right)^2}\left(8\,l^4\,r^4-8\,l^2\,r^6+l^6\,r\,R+15\,l^4\,r^3\,R-49\,l^2\,r^5\,R+r^7\,R+l^6\,R^2-6\,l^4\,r^2\,R^2-119\,l^2\,r^4\,R^2+12\,r^6\,R^2-16\,l^4\,r\,R^3-96\,l^2\,r^3\,R^3+48\,r^5\,R^3+64\,r^4\,R^4\right)\right\}$$

$$\left\{X55,\ \text{INSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ X70,\ \text{ISOGONAL CONJUGATE OF } X(26),\ \left(-l^{10}\,r^2+9\,l^8\,r^4-22\,l^6\,r^6+22\,l^4\,r^8-9\,l^2\,r^{10}+r^{12}-l^{10}\,r\,R+35\,l^8\,r^3\,R-170\,l^6\,r^5\,R+262\,l^4\,r^7\,R-149\,l^2\,r^9\,R+23\,r^{11}\,R+39\,l^8\,r^2\,R^2-484\,l^6\,r^4\,R^2+1274\,l^4\,r^6\,R^2-1060\,l^2\,r^8\,R^2+231\,r^{10}\,R^2+10\,l^8\,r\,R^3-608\,l^6\,r^3\,R^3+3220\,l^4\,r^5\,R^3-4208\,l^2\,r^7\,R^3+1330\,r^9\,R^3-303\,l^6\,r^2\,R^4+4429\,l^4\,r^4\,R^4-10\,121\,l^2\,r^6\,R^4+4843\,r^8\,R^4-32\,l^6\,r\,R^5+3124\,l^4\,r^3\,R^5-14\,960\,l^2\,r^5\,R^5+11\,596\,r^7\,R^5-l^6\,R^6+905\,l^4\,r^2\,R^6-13\,103\,l^2\,r^4\,R^6+18\,359\,r^6\,R^6+42\,l^4\,r\,R^7-6116\,l^2\,r^3\,R^7+18\,778\,r^5\,R^7+6\,l^4\,R^8-1166\,l^2\,r^2\,R^8+11\,692\,r^4\,R^8-35\,l^2\,r\,R^9+3929\,r^3\,R^9-9\,l^2\,R^{10}+554\,r^2\,R^{10}+16\,r\,R^{11}+4\,R^{12}\right)\Big/\left((r+R)^2\,\left(l^4-2\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-6\,l^2\,R^2+22\,r^2\,R^2+24\,r\,R^3+7\,R^4\right)^2\right)\right\}$$

$$\left\{X55,\ \text{INSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ X71,\ \text{ISOGONAL CONJUGATE OF } X(27),\ -\frac{R^2\,(r+2R)^2\,\left(-3\,l^4+14\,l^2\,r^2+r^4+28\,l^2\,r\,R+12\,r^3\,R-4\,l^2\,R^2+48\,r^2\,R^2+64\,r\,R^3\right)}{(r+R)^2\,\left(l^2+r^2+6\,r\,R+8\,R^2\right)^2}\right\}$$

$$\left\{X55,\ \text{INSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ X72,\ \text{ISOGONAL CONJUGATE OF } X(28),\ -\frac{-l^2\,r^3+r^5-2\,l^2\,r^2\,R+7\,r^4\,R-2\,l^2\,r\,R^2+20\,r^3\,R^2-l^2\,R^3+27\,r^2\,R^3+16\,r\,R^4}{R\,(r+R)^2}\right\}$$

$$\left\{X55,\ \text{INSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ X73,\ \text{CROSSPOINT OF INCENTER AND CIRCUMCENTER},\ \frac{r^2 R^2 \left(3 l^4 - 6 l^2 r^2 + 7 r^4 - 28 l^2 r R + 36 r^3 R - 28 l^2 R^2 + 96 r^2 R^2 + 128 r R^3 + 64 R^4\right)}{(r+R)^2 \left(l^2 + r^2 - 2 r R - 4 R^2\right)^2}\right\}$$

$$\left\{X55,\ \text{INSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ X74,\ \text{ISOGONAL CONJUGATE OF EULER INFINITY POINT},\ \frac{R^2 \left(4 r^4 - 3 l^2 r R + 17 r^3 R - 9 l^2 R^2 + 34 r^2 R^2 + 48 r R^3 + 36 R^4\right)}{(r+R)^2 \left(-2 l^2 + 2 r^2 + 8 r R + 9 R^2\right)}\right\}$$

$$\left\{X55,\ \text{INSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ X75,\ \text{ISOTOMIC CONJUGATE OF INCENTER},\ \frac{1}{(r+R)^2 \left(l^2 + r^2 + 4 r R\right)^2} R \left(l^6 r - 5 l^4 r^3 + 27 l^2 r^5 + r^7 + l^6 R - 18 l^4 r^2 R + 105 l^2 r^4 R + 12 r^6 R - 16 l^4 r R^2 + 96 l^2 r^3 R^2 + 48 r^5 R^2 + 64 r^4 R^3\right)\right\}$$

$$\left\{X55,\ \text{INSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ X76,\ \text{3rd BROCARD POINT},\ \frac{1}{(r+R)^2 \left(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\right)^2} R \left(l^{10} r + 5 l^8 r^3 + 10 l^6 r^5 + 10 l^4 r^7 + 5 l^2 r^9 + r^{11} + l^{10} R - 16 l^8 r^2 R - 66 l^6 r^4 R + 196 l^4 r^6 R + 9 l^2 r^8 R + 20 r^{10} R - 24 l^8 r R^2 + 8 l^6 r^3 R^2 + 632 l^4 r^5 R^2 - 264 l^2 r^7 R^2 + 160 r^9 R^2 + 144 l^6 r^2 R^3 + 544 l^4 r^4 R^3 - 1264 l^2 r^6 R^3 + 640 r^8 R^3 - 256 l^4 r^3 R^4 - 1536 l^2 r^5 R^4 + 1280 r^7 R^4 + 1024 r^6 R^5\right)\right\}$$

$$\left\{X55,\ \text{INSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ X77,\ \text{ISOGONAL CONJUGATE OF } X(33),\ \frac{r^2 R \left(-l^4 r + l^2 r^3 + 2 l^4 R + 3 l^2 r^2 R - 3 l^2 r R^2 + r^3 R^2 - 23 l^2 R^3 + 12 r^2 R^3 + 48 r R^4 + 64 R^5\right)}{(r+R)^2 \left(-l^2 + r R + 4 R^2\right)^2}\right\}$$

$$\left\{X55,\ \text{INSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ X78,\ \text{ISOGONAL CONJUGATE OF } X(34),\ -\frac{R \left(-l^2 r^3 + r^5 - l^2 r^2 R + 4 r^4 R - l^2 r R^2 + 11 r^3 R^2 - l^2 R^3 + 12 r^2 R^3 + 16 r R^4\right)}{(r-R)^2 (r+R)^2}\right\}$$

$$\left\{X55,\ \text{INSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ X79,\ \text{ISOGONAL CONJUGATE OF } X(35),\ \frac{r^2 \left(-12 l^2 r^2 + 4 r^4 - 26 l^2 r R + 38 r^3 R - 14 l^2 R^2 + 126 r^2 R^2 + 170 r R^3 + 81 R^4\right)}{(r+R)^2 (2 r + 3 R)^2}\right\}$$

$$\left\{X55,\ \text{INSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ X80,\ \text{REFLECTION OF INCENTER IN FEUERBACH POINT},\ \frac{r^2 \left(-2 l^2 r + 6 r^3 - 2 l^2 R + 26 r^2 R + 28 r R^2 - R^3\right)}{(2 r - R)(r+R)^2}\right\}$$

$$\left\{X55,\ \text{INSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ X81,\ \text{CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},\ -\frac{r^2 R \left(l^4 r + 2 l^2 r^3 + r^5 - 2 l^4 R + 12 l^2 r^2 R + 10 r^4 R + 9 l^2 r R^2 + 33 r^3 R^2 - l^2 R^3 + 40 r^2 R^3 + 16 r R^4\right)}{(r+R)^2 \left(-l^2 + r^2 + r R\right)^2}\right\}$$

$$\left\{X55,\ \text{INSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ X82,\ \text{ISOGONAL CONJUGATE OF } X(38),\ \left(r^2 R \left(-l^8 r - 2 l^6 r^3 + 2 l^2 r^7 + r^9 + 2 l^8 R - 8 l^6 r^2 R + 28 l^4 r^4 R - 8 l^2 r^6 R + 18 r^8 R - 35 l^6 r R^2 + 143 l^4 r^3 R^2 - 145 l^2 r^5 R^2 + 125 r^7 R^2 + l^6 R^3 + 230 l^4 r^2 R^3 - 463 l^2 r^4 R^3 + 396 r^6 R^3 - 32 l^4 r R^4 - 368 l^2 r^3 R^4 + 432 r^5 R^4 + 320 l^2 r^2 R^5 - 448 r^4 R^5 - 1024 r^3 R^6\right)\right) \Big/ \left((r+R)^2 \left(l^4 - 4 l^2 r^2 + 3 r^4 - 9 l^2 r R + 19 r^3 R + 28 r^2 R^2\right)^2\right)\right\}$$

$$\left\{X55,\ \text{INSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ X83,\ \text{CEVAPOINT OF CENTROID AND SYMMEDIAN POINT},\right.$$
$$\frac{1}{(r+R)^2\left(5l^4-6l^2r^2+5r^4-40l^2rR+40r^3R+80r^2R^2\right)^2}$$
$$\left(-4l^{10}r^2-12l^8r^4-8l^6r^6+8l^4r^8+12l^2r^{10}+4r^{12}-3l^{10}rR+65l^8r^3R+\right.$$
$$50l^6r^5R-14l^4r^7R+97l^2r^9R+93r^{11}R+l^{10}R^2+112l^8r^2R^2-610l^6r^4R^2+$$
$$484l^4r^6R^2-215l^2r^8R^2+884r^{10}R^2-40l^8rR^3-1096l^6r^3R^3+3784l^4r^5R^3-$$
$$\left.\left.3896l^2r^7R^3+4320r^9R^3+592l^6r^2R^4+4000l^4r^4R^4-10544l^2r^6R^4+10880r^8R^4-\right.\right.$$
$$\left.\left.4096l^4r^3R^5-2816l^2r^5R^5+10496r^7R^5+13312l^2r^4R^6-7168r^6R^6-16384r^5R^7\right)\right\}$$

$$\left\{X55,\ \text{INSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ X84,\ \text{ISOGONAL CONJUGATE OF } X(40),\right.$$
$$\left.-\frac{R\left(-2l^2r^3-2l^2r^2R+r^4R+4l^2rR^2+4r^3R^2+4l^2R^3-16r^2R^3-32rR^4-16R^5\right)}{r^2(r+R)^2}\right\}$$

$$\left\{X55,\ \text{INSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ X85,\ \text{ISOTOMIC CONJUGATE OF } X(9),\right.$$
$$\left(R\left(l^6r-21l^4r^3+11l^2r^5+r^7+l^6R-58l^4r^2R+105l^2r^4R+20r^6R-40l^4rR^2+312l^2r^3R^2+\right.\right.$$
$$\left.\left.\left.160r^5R^2+272l^2r^2R^3+640r^4R^3+1280r^3R^4+1024r^2R^5\right)\right)\Big/\left((r+R)^2\left(l^2+r^2+8rR+16R^2\right)^2\right)\right\}$$

$$\left\{X55,\ \text{INSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ X86,\ \text{CEVAPOINT OF INCENTER AND CENTROID},\right.$$
$$\left(-4l^6r^2-8l^4r^4-4l^2r^6-3l^6rR-5l^4r^3R-l^2r^5R+r^7R+l^6R^2+62l^4r^2R^2+73l^2r^4R^2+\right.$$
$$\left.\left.12r^6R^2-16l^4rR^3+160l^2r^3R^3+48r^5R^3+64r^4R^4\right)\Big/\left((r+R)^2\left(5l^2+r^2+4rR\right)^2\right)\right\}$$

$$\left\{X55,\ \text{INSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ X87,\right.$$
$$X(2)\text{-CROSS CONJUGATE OF } X(1),\ \frac{1}{(r+R)^2\left(l^4+2l^2r^2+r^4-20l^2rR+12r^3R+32r^2R^2\right)^2}$$
$$r^2R\left(2l^8r+8l^6r^3+12l^4r^5+8l^2r^7+2r^9+5l^8R-36l^6r^2R-74l^4r^4R-20l^2r^6R+13r^8R-\right.$$
$$\left.\left.160l^6rR^2+128l^4r^3R^2+224l^2r^5R^2-64r^7R^2+16l^6R^3+1408l^4r^2R^3-432l^2r^4R^3-\right.\right.$$
$$\left.\left.800r^6R^3-384l^4rR^4-1152l^2r^3R^4-2816r^5R^4+2304l^2r^2R^5-4864r^4R^5-4096r^3R^6\right)\right\}$$

$$\left\{X55,\ \text{INSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ X88,\ \text{ISOGONAL CONJUGATE OF } X(44),\right.$$
$$-\left(\left(r^2R\left(-l^4r-6l^2r^3+27r^5-4l^4R+24l^2r^2R+144r^4R+129l^2rR^2-\right.\right.\right.$$
$$\left.\left.\left.135r^3R^2-9l^2R^3-1080r^2R^3+144rR^4\right)\right)\Big/\left((r+R)^2\left(l^2+3r^2-15rR\right)^2\right)\right)\right\}$$

$$\left\{X55,\ \text{INSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ X89,\ \text{ISOGONAL CONJUGATE OF } X(45),\right.$$
$$-\left(\left(r^2R\left(2l^4r+24l^2r^3+54r^5-10l^4R+102l^2r^2R+468r^4R-39l^2rR^2+\right.\right.\right.$$
$$\left.\left.\left.1161r^3R^2-9l^2R^3+648r^2R^3+144rR^4\right)\right)\Big/\left((r+R)^2\left(-2l^2+6r^2-3rR\right)^2\right)\right)\right\}$$

$$\left\{X55,\ \text{INSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ X90,\ X(3)\text{-CROSS CONJUGATE OF } X(1),\right.$$
$$\left.-\frac{r^2R\left(-2l^2r^3-2l^2r^2R+r^4R-2l^2rR^2+10r^3R^2-2l^2R^3+32r^2R^3+34rR^4-R^5\right)}{(r+R)^2\left(r^2+2rR-R^2\right)^2}\right\}$$

$$\left\{X55,\ \text{INSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ X91,\ \text{ISOGONAL CONJUGATE OF } X(47),\right.$$
$$-\left(\left(r^2R\left(-2l^6r+6l^4r^3-22l^2r^5+2r^7-2l^6R+37l^4r^2R-112l^2r^4R+25r^6R+50l^4rR^2-\right.\right.\right.$$
$$\left.\left.\left.228l^2r^3R^2+122r^5R^2+7l^4R^3-254l^2r^2R^3+299r^4R^3-144l^2rR^4+400r^3R^4-4l^2R^5+\right.\right.\right.$$
$$\left.\left.\left.296r^2R^5+104rR^6-4R^7\right)\right)\Big/\left((r+R)^2\left(l^2r+r^3-l^2R+3r^2R+2rR^2+2R^3\right)^2\right)\right)\right\}$$

$$\left\{X55,\ \text{INSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ X92,\right.$$
$$\text{CEVAPOINT OF INCENTER AND CLAWSON POINT},\ -\frac{1}{(r+R)^2\left(l^2+r^2-4R^2\right)^2}R\left(-l^2+3r^2+4rR+4R^2\right)$$
$$\left.\left(l^4r-6l^2r^3+r^5+l^4R-23l^2r^2R+12r^4R-24l^2rR^2+52r^3R^2-4l^2R^3+96r^2R^3+64rR^4\right)\right\}$$

$$\{X55,\ \text{INSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ X93,\ \text{ISOGONAL CONJUGATE OF } X(49),$$
$$\left(R\left(l^{10} r+5 l^8 r^3+10 l^6 r^5+10 l^4 r^7+5 l^2 r^9+r^{11}+l^{10} R-12 l^8 r^2 R-98 l^6 r^4 R+124 l^4 r^6 R-23 l^2 r^8 R+24 r^{10} R-30 l^8 r R^2-148 l^6 r^3 R^2+808 l^4 r^5 R^2-620 l^2 r^7 R^2+246 r^9 R^2-10 l^8 R^3+146 l^6 r^2 R^3+2054 l^4 r^4 R^3-3346 l^2 r^6 R^3+1412 r^8 R^3+206 l^6 r R^4+1498 l^4 r^3 R^4-8374 l^2 r^5 R^4+4990 r^7 R^4+32 l^6 R^5-354 l^4 r^2 R^5-10492 l^2 r^4 R^5+11206 r^6 R^5-526 l^4 r R^6-5576 l^2 r^3 R^6+15830 r^5 R^6-34 l^4 R^7-210 l^2 r^2 R^7+13252 r^4 R^7+525 l^2 r R^8+5581 r^3 R^8+7 l^2 R^9+586 r^2 R^9-176 r R^{10}+4 R^{11}\right)\right)/\left((r+R)^2\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-8 l^2 R^2+24 r^2 R^2+32 r R^3+13 R^4\right)^2\right)\}$$

$$\{X55,\ \text{INSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ X94,\ \text{ISOGONAL CONJUGATE OF } X(50),$$
$$\left(R\left(l^{10} r+5 l^8 r^3+10 l^6 r^5+10 l^4 r^7+5 l^2 r^9+r^{11}+l^{10} R-10 l^8 r^2 R-90 l^6 r^4 R+136 l^4 r^6 R-15 l^2 r^8 R+26 r^{10} R-30 l^8 r R^2-172 l^6 r^3 R^2+800 l^4 r^5 R^2-564 l^2 r^7 R^2+286 r^9 R^2-12 l^8 R^3+126 l^6 r^2 R^3+2038 l^4 r^4 R^3-3262 l^2 r^6 R^3+1750 r^8 R^3+264 l^6 r R^4+1616 l^4 r^3 R^4-8664 l^2 r^5 R^4+6560 r^7 R^4+54 l^6 R^5-654 l^4 r^2 R^5-11430 l^2 r^4 R^5+15550 r^6 R^5-1026 l^4 r R^6-5664 l^2 r^3 R^6+22962 r^5 R^6-108 l^4 R^7+1602 l^2 r^2 R^7+19386 r^4 R^7+1863 l^2 r R^8+6687 r^3 R^8+81 l^2 R^9-1512 r^2 R^9-1296 r R^{10}\right)\right)/\left((r+R)^2\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-12 l^2 R^2+28 r^2 R^2+48 r R^3+27 R^4\right)^2\right)\}$$

$$\{X55,\ \text{INSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ X95,\ \text{CEVAPOINT OF CENTROID AND CIRCUMCENTER},$$
$$\left(R\left(l^{10} r+21 l^8 r^3+58 l^6 r^5+58 l^4 r^7+21 l^2 r^9+r^{11}+l^{10} R-274 l^6 r^4 R+116 l^4 r^6 R+153 l^2 r^8 R+20 r^{10} R-32 l^8 r R^2-456 l^6 r^3 R^2+248 l^4 r^5 R^2+72 l^2 r^7 R^2+168 r^9 R^2-8 l^8 R^3+168 l^6 r^2 R^3+3432 l^4 r^4 R^3-1992 l^2 r^6 R^3+768 r^8 R^3+176 l^6 r R^4+1456 l^4 r^3 R^4-6000 l^2 r^5 R^4+2064 r^7 R^4+16 l^6 R^5-608 l^4 r^2 R^5-6000 l^2 r^4 R^5+3264 r^6 R^5-256 l^4 r R^6-1536 l^2 r^3 R^6+2816 r^5 R^6+1024 r^4 R^7\right)\right)/\left((r+R)^2\left(l^4+18 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-4 l^2 R^2+20 r^2 R^2+16 r R^3\right)^2\right)\}$$

$$\{X55,\ \text{INSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ X96,$$
$$\text{ISOGONAL CONJUGATE OF } X(52),\ -\frac{1}{(r+R)^2\left(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2-4 R^4\right)^2}$$
$$R\left(l^{10} r-11 l^8 r^3-38 l^6 r^5-38 l^4 r^7-11 l^2 r^9+r^{11}+l^{10} R-38 l^8 r^2 R+182 l^6 r^4 R-144 l^4 r^6 R-95 l^2 r^8 R+14 r^{10} R-36 l^8 r R^2+512 l^6 r^3 R^2-472 l^4 r^5 R^2-192 l^2 r^7 R^2+60 r^9 R^2-12 l^8 R^3+560 l^6 r^2 R^3-2552 l^4 r^4 R^3+784 l^2 r^6 R^3-60 r^8 R^3+288 l^6 r R^4-4048 l^4 r^3 R^4+5184 l^2 r^5 R^4-1488 r^7 R^4+56 l^6 R^5-2816 l^4 r^2 R^5+11704 l^2 r^4 R^5-6160 r^6 R^5-944 l^4 r R^6+11744 l^2 r^3 R^6-13232 r^5 R^6-128 l^4 R^7+5760 l^2 r^2 R^7-16320 r^4 R^7+1392 l^2 r R^8-11216 r^3 R^8+144 l^2 R^9-4128 r^2 R^9-768 r R^{10}-64 R^{11}\right)\}$$

$$\{X55,\ \text{INSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ X97,\ \text{ISOGONAL CONJUGATE OF } X(53),$$
$$-\left(\left(R^2\left(-4 l^8 r^2+28 l^6 r^4-28 l^4 r^6+4 l^2 r^8-l^8 r R+46 l^6 r^3 R-112 l^4 r^5 R+34 l^2 r^7 R+r^9 R+54 l^6 r^2 R^2-314 l^4 r^4 R^2+130 l^2 r^6 R^2+18 r^8 R^2+5 l^6 r R^3-337 l^4 r^3 R^3+291 l^2 r^5 R^3+137 r^7 R^3-l^6 R^4-158 l^4 r^2 R^4+351 l^2 r^4 R^4+576 r^6 R^4+32 l^4 r R^5+72 l^2 r^3 R^5+1464 r^5 R^5+8 l^4 R^6-280 l^2 r^2 R^6+2304 r^4 R^6-208 l^2 r R^7+2192 r^3 R^7-16 l^2 R^8+1152 r^2 R^8+256 r R^9\right)\right)/\left((r+R)^2\left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-7 l^2 R^2+23 r^2 R^2+28 r R^3+12 R^4\right)^2\right)\right)\}$$

$$\{X55,\ \text{INSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ X98,\ \text{TarryPoint},$$
$$-\left(\left(R\left(l^6 r+3 l^4 r^3+3 l^2 r^5+r^7+l^6 R-12 l^4 r^2 R+13 l^2 r^4 R+10 r^6 R-16 l^4 r R^2+16 l^2 r^3 R^2+32 r^5 R^2-4 l^4 R^3+56 l^2 r^2 R^3+28 r^4 R^3+32 l^2 r R^4-32 r^3 R^4-64 r^2 R^5\right)\right)/\left((r+R)^2\left(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)\right)\right)\}$$

$$\{X55,\ \text{INSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ X99,\ \text{STEINER POINT},$$
$$\frac{R\left(l^6 r+3 l^4 r^3+3 l^2 r^5+r^7+l^6 R-10 l^4 r^2 R-15 l^2 r^4 R+12 r^6 R-16 l^4 r R^2+48 r^5 R^2+64 r^4 R^3\right)}{(r+R)^2\left(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)}\}$$

$$\{X55,\ \text{INSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ X100,$$
$$\text{ANTICOMPLEMENT OF FEUERBACH POINT},\ \frac{R^2\left(-l^2 r+r^3-l^2 R+8 r^2 R+16 r R^2\right)}{(2 r-R)\ (r+R)^2}\}$$

$$\{X56,\ \text{EXSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),$$
$$X57,\ \text{ISOGONAL CONJUGATE OF } X(9),\ -\frac{r^4\ (2 r-R)\ R}{(r-2 R)^2\ (r-R)^2}\}$$

$$\left\{\text{X56, EXSIMILICENTER(CIRCUMCIRCLE, INCIRCLE), X58, ISOGONAL CONJUGATE OF X(10)}, \frac{r^2 R^2 \left(-l^4-10 l^2 r^2+7 r^4+20 l^2 r R+20 r^3 R+4 l^2 R^2-12 r^2 R^2-64 r R^3\right)}{(r-R)^2 \left(-l^2+3 r^2+4 r R\right)^2}\right\}$$

$$\left\{\text{X56, EXSIMILICENTER(CIRCUMCIRCLE, INCIRCLE), X59, ISOGONAL CONJUGATE OF X(11)}, \frac{r^2 R^2 \left(-l^4 r-6 l^2 r^3+3 r^5+20 l^2 r^2 R+16 r^4 R+7 l^2 r R^2-15 r^3 R^2-l^2 R^3-120 r^2 R^3+16 r R^4\right)}{(r-R)^2 (2 r-R) \left(-l^2+r^2+5 r R+4 R^2\right)^2}\right\}$$

$$\left\{\text{X56, EXSIMILICENTER(CIRCUMCIRCLE, INCIRCLE), X60, ISOGONAL CONJUGATE OF X(12)}, \left(r^2 R^2 \left(-2 l^4 r^2-12 l^2 r^4+6 r^6-5 l^4 r R-14 l^2 r^3 R+39 r^5 R-2 l^4 R^2+46 l^2 r^2 R^2+72 r^4 R^2+67 l^2 r R^3-29 r^3 R^3+9 l^2 R^4-200 r^2 R^4-144 r R^5\right)\right) \Big/ \left((r-R)^2 \left(-2 l^2 r+2 r^3-l^2 R+7 r^2 R+7 r R^2\right)^2\right)\right\}$$

$$\left\{\text{X56, EXSIMILICENTER(CIRCUMCIRCLE, INCIRCLE), X61, ISOGONAL CONJUGATE OF X(17)}, \frac{3 r^2 R^2 \left(\sqrt{3}\, l+r+4 R\right) \left(-\sqrt{3}\, l^3-3 l^2 r-13 \sqrt{3}\, l r^2+9 r^3+4 l^2 R+20 \sqrt{3}\, l r R+24 r^2 R-48 r R^2\right)}{(r-R)^2 \left(3 l^2+2 \sqrt{3}\, l r-3 r^2-12 r R\right)^2}\right\}$$

$$\left\{\text{X56, EXSIMILICENTER(CIRCUMCIRCLE, INCIRCLE), X62, ISOGONAL CONJUGATE OF X(18)}, \frac{3 r^2 R^2 \left(-\sqrt{3}\, l+r+4 R\right) \left(\sqrt{3}\, l^3-3 l^2 r+13 \sqrt{3}\, l r^2+9 r^3+4 l^2 R-20 \sqrt{3}\, l r R+24 r^2 R-48 r R^2\right)}{(r-R)^2 \left(3 l^2-2 \sqrt{3}\, l r-3 r^2-12 r R\right)^2}\right\}$$

$$\left\{\text{X56, EXSIMILICENTER(CIRCUMCIRCLE, INCIRCLE), X63, ISOGONAL CONJUGATE OF X(19)}, -\frac{R \left(-l^2 r^3+r^5+3 l^2 r^2 R-l^2 r R^2-9 r^3 R^2-l^2 R^3-4 r^2 R^3+16 r R^4\right)}{(r-R)^2 (r+R)^2}\right\}$$

$$\left\{\text{X56, EXSIMILICENTER(CIRCUMCIRCLE, INCIRCLE), X64, ISOGONAL CONJUGATE OF X(20)}, \left(R^2 \left(7 l^4 r^2-6 l^2 r^4+3 r^6-20 l^4 r R-20 l^2 r^3 R+16 r^5 R+12 l^4 R^2+60 l^2 r^2 R^2+12 r^4 R^2+96 l^2 r R^3-112 r^3 R^3-112 l^2 R^4-256 r^2 R^4+256 R^6\right)\right) \Big/ \left((r-R)^2 (-l+r+2 R)^2 (l+r+2 R)^2\right)\right\}$$

$$\left\{\text{X56, EXSIMILICENTER(CIRCUMCIRCLE, INCIRCLE), X65, ORTHOCENTER OF THE INTOUCH TRIANGLE}, -\frac{r^4 (2 r-R)}{(r-R)^2 R}\right\}$$

$$\left\{\text{X56, EXSIMILICENTER(CIRCUMCIRCLE, INCIRCLE), X66, ISOGONAL CONJUGATE OF X(22)}, \frac{1}{(r-R)^2 (-l+r+2 R)^2 (l+r+2 R)^2 \left(-l^2+r^2+4 r R\right)^2} \left(-l^{10} r^2+9 l^8 r^4-22 l^6 r^6+22 l^4 r^8-9 l^2 r^{10}+r^{12}+l^{10} r R+5 l^8 r^3 R-86 l^6 r^5 R+170 l^4 r^7 R-107 l^2 r^9 R+17 r^{11} R-6 l^8 r^2 R^2-28 l^6 r^4 R^2+380 l^4 r^6 R^2-460 l^2 r^8 R^2+114 r^{10} R^2-8 l^8 r R^3+64 l^6 r^3 R^3+104 l^4 r^5 R^3-784 l^2 r^7 R^3+368 r^9 R^3-l^8 R^4+56 l^6 r^2 R^4-374 l^4 r^4 R^4-120 l^2 r^6 R^4+503 r^8 R^4+40 l^6 r R^5-304 l^4 r^3 R^5+1032 l^2 r^5 R^5-128 r^7 R^5+4 l^6 R^6-204 l^4 r^2 R^6+956 l^2 r^4 R^6-1124 r^6 R^6-80 l^4 r R^7+480 l^2 r^3 R^7-1072 r^5 R^7+272 l^2 r^2 R^8-448 r^4 R^8-256 r^3 R^9\right)\right\}$$

$$\left\{\text{X56, EXSIMILICENTER(CIRCUMCIRCLE, INCIRCLE), X67, ISOGONAL CONJUGATE OF X(23)}, \frac{1}{(r-R)^2 \left(-l^2+r^2+4 r R\right)^2 \left(-2 l^2+2 r^2+8 r R+9 R^2\right)} \left(l^8 r^2-16 l^6 r^4+30 l^4 r^6-16 l^2 r^8+r^{10}+12 l^6 r^3 R+84 l^4 r^5 R-108 l^2 r^7 R+12 r^9 R-l^8 R^2-20 l^6 r^2 R^2-30 l^4 r^4 R^2-188 l^2 r^6 R^2+47 r^8 R^2+22 l^6 r R^3-18 l^4 r^3 R^3+50 l^2 r^5 R^3+42 r^7 R^3+4 l^6 R^4-33 l^4 r^2 R^4+246 l^2 r^4 R^4-133 r^6 R^4-72 l^4 r R^5+124 l^2 r^3 R^5-268 r^5 R^5+132 l^2 r^2 R^6-112 r^4 R^6-64 r^3 R^7\right)\right\}$$

$$\{X56,\ \text{EXSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ X68,\ \text{PRASOLOV POINT},$$
$$\left(-l^6 r^2 + 7 l^4 r^4 - 7 l^2 r^6 + r^8 + l^6 r R - l^4 r^3 R - 25 l^2 r^5 R + 9 r^7 R + 4 l^4 r^2 R^2 - 20 l^2 r^4 R^2 + 28 r^6 R^2 - 12 l^4 r R^3 + 24 l^2 r^3 R^3 + 28 r^5 R^3 + l^4 R^4 + 18 l^2 r^2 R^4 - 23 r^4 R^4 + 32 l^2 r R^5 - 64 r^3 R^5 - 4 l^2 R^6 - 40 r^2 R^6 - 24 r R^7 + 4 R^8\right) \Big/ \left((r-R)^2 (-l + r + 2R)^2 (l + r + 2R)^2\right)\}$$

$$\{X56,\ \text{EXSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),$$
$$X69,\ \text{SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},$$
$$-\left(\left(-8 l^4 r^4 + 8 l^2 r^6 + l^6 r R + 15 l^4 r^3 R + 15 l^2 r^5 R + r^7 R - l^6 R^2 - 22 l^4 r^2 R^2 - l^2 r^4 R^2 + 8 r^6 R^2 + 16 l^4 r R^3 - 32 l^2 r^3 R^3 + 16 r^5 R^3\right) \Big/ \left((r-R)^2 \left(-l^2 + r^2 + 4 r R\right)^2\right)\right)\}$$

$$\{X56,\ \text{EXSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ X70,\ \text{ISOGONAL CONJUGATE OF } X(26),$$
$$\left(-l^{10} r^2 + 9 l^8 r^4 - 22 l^6 r^6 + 22 l^4 r^8 - 9 l^2 r^{10} + r^{12} + l^{10} r R + 5 l^8 r^3 R - 86 l^6 r^5 R + 170 l^4 r^7 R - 107 l^2 r^9 R + 17 r^{11} R - l^8 r^2 R^2 - 60 l^6 r^4 R^2 + 434 l^4 r^6 R^2 - 492 l^2 r^8 R^2 + 119 r^{10} R^2 - 14 l^8 r R^3 + 40 l^6 r^3 R^3 + 332 l^4 r^5 R^3 - 1048 l^2 r^7 R^3 + 434 r^9 R^3 + 85 l^6 r^2 R^4 - 231 l^4 r^4 R^4 - 813 l^2 r^6 R^4 + 831 r^8 R^4 + 76 l^6 r R^5 - 504 l^4 r^3 R^5 + 596 l^2 r^5 R^5 + 584 r^7 R^5 - l^6 R^6 - 427 l^4 r^2 R^6 + 1601 l^2 r^4 R^6 - 709 r^6 R^6 - 182 l^4 r R^7 + 1364 l^2 r^3 R^7 - 1886 r^5 R^7 + 6 l^4 R^8 + 726 l^2 r^2 R^8 - 1792 r^4 R^8 + 175 l^2 r R^9 - 1021 r^3 R^9 - 9 l^2 R^{10} - 370 r^2 R^{10} - 56 r R^{11} + 4 R^{12}\right) \Big/ \left((r-R)^2 \left(l^4 - 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 6 l^2 R^2 + 22 r^2 R^2 + 24 r R^3 + 7 R^4\right)^2\right)\}$$

$$\{X56,\ \text{EXSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ X71,\ \text{ISOGONAL CONJUGATE OF } X(27),$$
$$\left(R^2 \left(7 l^4 r^2 - 6 l^2 r^4 + 3 r^6 - 20 l^4 r R - 4 l^2 r^3 R + 32 r^5 R + 12 l^4 R^2 - 4 l^2 r^2 R^2 + 108 r^4 R^2 - 32 l^2 r R^3 + 80 r^3 R^3 + 16 l^2 R^4 - 192 r^2 R^4 - 256 r R^5\right)\right) \Big/ \left((r-R)^2 \left(l^2 + r^2 + 6 r R + 8 R^2\right)^2\right)\}$$

$$\{X56,\ \text{EXSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ X72,\ \text{ISOGONAL CONJUGATE OF } X(28),$$
$$-\frac{-l^2 r^3 + r^5 + 2 l^2 r^2 R + 3 r^4 R - 6 r^3 R^2 - l^2 R^3 - 13 r^2 R^3 + 16 r R^4}{(r-R)^2 R}\}$$

$$\{X56,\ \text{EXSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ X73,\ \text{CROSSPOINT OF INCENTER AND CIRCUMCENTER},$$
$$\frac{r^2 R^2 \left(-l^4 - 14 l^2 r^2 + 3 r^4 + 20 l^2 r R + 20 r^3 R + 4 l^2 R^2 + 16 r^2 R^2 - 64 r R^3\right)}{(r-R)^2 \left(l^2 + r^2 - 2 r R - 4 R^2\right)^2}\}$$

$$\{X56,\ \text{EXSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ X74,\ \text{ISOGONAL CONJUGATE OF EULER INFINITY POINT},$$
$$-\frac{R^2 \left(4 l^2 r^2 - 15 l^2 r R + 5 r^3 R + 9 l^2 R^2 + 26 r^2 R^2 + 24 r R^3 - 36 R^4\right)}{(r-R)^2 \left(-2 l^2 + 2 r^2 + 8 r R + 9 R^2\right)}\}$$

$$\{X56,\ \text{EXSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ X75,\ \text{ISOTOMIC CONJUGATE OF INCENTER},$$
$$-\frac{R \left(l^6 r + 11 l^4 r^3 - 21 l^2 r^5 + r^7 - l^6 R - 26 l^4 r^2 R - l^2 r^4 R + 8 r^6 R + 16 l^4 r R^2 + 32 l^2 r^3 R^2 + 16 r^5 R^2\right)}{(r-R)^2 \left(l^2 + r^2 + 4 r R\right)^2}\}$$

$$\{X56,\ \text{EXSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ X76,$$
$$\text{3rd BROCARD POINT},\ -\frac{1}{(r-R)^2 \left(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\right)^2}$$
$$R \left(l^{10} r + 5 l^8 r^3 + 10 l^6 r^5 + 10 l^4 r^7 + 5 l^2 r^9 + r^{11} - l^{10} R - 28 l^8 r^2 R - 30 l^6 r^4 R - 220 l^4 r^6 R + 55 l^2 r^8 R + 16 r^{10} R + 24 l^8 r R^2 + 152 l^6 r^3 R^2 + 200 l^4 r^5 R^2 + 168 l^2 r^7 R^2 + 96 r^9 R^2 - 144 l^6 r^2 R^3 - 160 l^4 r^4 R^3 - 16 l^2 r^6 R^3 + 256 r^8 R^3 + 256 l^4 r^3 R^4 - 512 l^2 r^5 R^4 + 256 r^7 R^4\right)\}$$

$$\{X56,\ \text{EXSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ X77,\ \text{ISOGONAL CONJUGATE OF } X(33),$$
$$-\frac{r^2 R \left(l^4 r - l^2 r^3 - l^2 r^2 R - 7 l^2 r R^2 + r^3 R^2 - l^2 R^3 + 8 r^2 R^3 + 16 r R^4\right)}{(r-R)^2 \left(-l^2 + r R + 4 R^2\right)^2}\}$$

$$\{X56,\ \text{EXSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ X78,$$
$$\text{ISOGONAL CONJUGATE OF } X(34),\ -\frac{R \left(-l^2 r + r^3 - l^2 R + 8 r^2 R + 16 r R^2\right)}{(r-R)^2}\}$$

$$\left\{X56,\ \text{EXSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ X79,\ \text{ISOGONAL CONJUGATE OF } X(35),\ \frac{r^2\left(-12 l^2 r^2+4 r^4+14 l^2 r R+14 r^3 R-2 l^2 R^2-6 r^2 R^2-46 r R^3+9 R^4\right)}{(r-R)^2 (2 r+3 R)^2}\right\}$$

$$\left\{X56,\ \text{EXSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ X80,\ \text{REFLECTION OF INCENTER IN FEUERBACH POINT},\ \frac{r^2\left(-2 l^2 r+6 r^3+2 l^2 R-2 r^2 R+4 r R^2-9 R^3\right)}{(r-R)^2 (2 r-R)}\right\}$$

$$\left\{X56,\ \text{EXSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ X81,\ \text{CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},\ -\frac{r^2 R\left(l^4 r+2 l^2 r^3+r^5+4 l^2 r^2 R-9 l^2 r R^2-9 r^3 R^2-l^2 R^3-4 r^2 R^3+16 r R^4\right)}{(r-R)^2\left(-l^2+r^2+r R\right)^2}\right\}$$

$$\left\{X56,\ \text{EXSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ X82,\ \text{ISOGONAL CONJUGATE OF } X(38),\ \left(r^2 R\left(-l^8 r-2 l^6 r^3+2 l^2 r^7+r^9+20 l^6 r^2 R+28 l^4 r^4 R-36 l^2 r^6 R+20 r^8 R+7 l^6 r R^2-139 l^4 r^3 R^2-99 l^2 r^5 R^2+111 r^7 R^2+l^6 R^3-126 l^4 r^2 R^3+393 l^2 r^4 R^3+136 r^6 R^3-32 l^4 r R^4+720 l^2 r^3 R^4-464 r^5 R^4+320 l^2 r^2 R^5-1280 r^4 R^5-1024 r^3 R^6\right)\right)\Big/\left((r-R)^2\left(l^4-4 l^2 r^2+3 r^4-9 l^2 r R+19 r^3 R+28 r^2 R^2\right)^2\right)\right\}$$

$$\left\{X56,\ \text{EXSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ X83,\ \text{CEVAPOINT OF CENTROID AND SYMMEDIAN POINT},\ \frac{1}{(r-R)^2\left(5 l^4-6 l^2 r^2+5 r^4-40 l^2 r R+40 r^3 R+80 r^2 R^2\right)^2}\left(-4 l^{10} r^2-12 l^8 r^4-8 l^6 r^6+8 l^4 r^8+12 l^2 r^{10}+4 r^{12}+3 l^{10} r R+95 l^8 r^3 R+78 l^6 r^5 R-50 l^4 r^7 R+31 l^2 r^9 R+67 r^{11} R+l^{10} R^2-68 l^8 r^2 R^2-738 l^6 r^4 R^2+604 l^4 r^6 R^2-567 l^2 r^8 R^2+464 r^{10} R^2-40 l^8 r R^3+536 l^6 r^3 R^3+2184 l^4 r^5 R^3-3032 l^2 r^7 R^3+1760 r^9 R^3+592 l^6 r^2 R^4-2016 l^4 r^4 R^4-3632 l^2 r^6 R^4+3840 r^8 R^4-4096 l^4 r^3 R^5+5376 l^2 r^5 R^5+2816 r^7 R^5+13312 l^2 r^4 R^6-8192 r^6 R^6-16384 r^5 R^7\right)\right\}$$

$$\left\{X56,\ \text{EXSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ X84,\ \text{ISOGONAL CONJUGATE OF } X(40),\ \frac{R\left(2 l^2 r^3-10 l^2 r^2 R+3 r^4 R+12 l^2 r R^2+12 r^3 R^2-4 l^2 R^3-32 r R^4+16 R^5\right)}{r^2 (r-R)^2}\right\}$$

$$\left\{X56,\ \text{EXSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ X85,\ \text{ISOTOMIC CONJUGATE OF } X(9),\ -\left(\left(R\left(l^6 r+27 l^4 r^3-5 l^2 r^5+r^7-l^6 R-34 l^4 r^2 R-33 l^2 r^4 R+16 r^6 R+8 l^4 r R^2-24 l^2 r^3 R^2+96 r^5 R^2+112 l^2 r^2 R^3+256 r^4 R^3+256 r^3 R^4\right)\right)\Big/\left((r-R)^2\left(l^2+r^2+8 r R+16 R^2\right)^2\right)\right)\right\}$$

$$\left\{X56,\ \text{EXSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ X86,\ \text{CEVAPOINT OF INCENTER AND CENTROID},\ -\frac{\left(l^2+r^2\right)^2\left(4 l^2 r^2-3 l^2 r R+r^3 R-l^2 R^2+8 r^2 R^2+16 r R^3\right)}{(r-R)^2\left(5 l^2+r^2+4 r R\right)^2}\right\}$$

$$\left\{X56,\ \text{EXSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ X87,\ X(2)\text{-CROSS CONJUGATE OF } X(1),\ \left(r^2 R\left(l^2+r^2-4 r R\right)^2\left(2 l^4 r+4 l^2 r^3+2 r^5-3 l^4 R-46 l^2 r^2 R+21 r^4 R+56 l^2 r R^2+56 r^3 R^2+16 l^2 R^3-48 r^2 R^3-256 r R^4\right)\right)\Big/\left((r-R)^2\left(l^4+2 l^2 r^2+r^4-20 l^2 r R+12 r^3 R+32 r^2 R^2\right)^2\right)\right\}$$

$$\left\{X56,\ \text{EXSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ X88,\ \text{ISOGONAL CONJUGATE OF } X(44),\ -\frac{r^2 R\left(-l^4 r-6 l^2 r^3+27 r^5+2 l^4 R+24 l^2 r^2 R-54 r^4 R-33 l^2 r R^2+63 r^3 R^2-9 l^2 R^3-36 r^2 R^3+144 r R^4\right)}{(r-R)^2\left(l^2+3 r^2-15 r R\right)^2}\right\}$$

$$\left\{X56,\ \text{EXSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ X89,\ \text{ISOGONAL CONJUGATE OF } X(45),\ -\frac{r^2 R\left(2 l^4 r+24 l^2 r^3+54 r^5+2 l^4 R+30 l^2 r^2 R-57 l^2 r R^2-153 r^3 R^2-9 l^2 R^3-36 r^2 R^3+144 r R^4\right)}{(r-R)^2\left(-2 l^2+6 r^2-3 r R\right)^2}\right\}$$

$$\left\{X56,\ \text{EXSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ X90,\ X(3)\text{-CROSS CONJUGATE OF } X(1),\ \frac{r^2 R\left(2 l^2 r^3-10 l^2 r^2 R+3 r^4 R+10 l^2 r R^2+14 r^3 R^2-2 l^2 R^3+4 r^2 R^3-34 r R^4+9 R^5\right)}{(r-R)^2\left(r^2+2 r R-R^2\right)^2}\right\}$$

$$\left\{X56,\ \text{EXSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ X91,\ \text{ISOGONAL CONJUGATE OF } X(47),\ -\left(\left(r^2 R\left(12 l^4 r^3-16 l^2 r^5+4 r^7-17 l^4 r^2 R-34 l^2 r^4 R+31 r^6 R+6 l^4 r R^2+4 l^2 r^3 R^2+78 r^5 R^2-l^4 R^3+66 l^2 r^2 R^3+51 r^4 R^3-24 l^2 r R^4-56 r^3 R^4+4 l^2 R^5-64 r^2 R^5+24 r R^6-4 R^7\right)\right)\Big/\left((r-R)^2\left(l^2 r+r^3-l^2 R+3 r^2 R+2 r R^2+2 R^3\right)^2\right)\right)\right\}$$

$$\left\{X56,\ \text{EXSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ X92,\ \text{CEVAPOINT OF INCENTER AND CLAWSON POINT},\ -\frac{1}{(r-R)^2\left(l^2+r^2-4 R^2\right)^2} R\left(l^6 r+15 l^4 r^3-13 l^2 r^5+5 r^7-l^6 R-38 l^4 r^2 R-49 l^2 r^4 R+36 r^6 R+16 l^4 r R^2+64 l^2 r^3 R^2+80 r^5 R^2+8 l^4 R^3+152 l^2 r^2 R^3-32 r^4 R^3-144 l^2 r R^4-272 r^3 R^4-16 l^2 R^5-64 r^2 R^5+256 r R^6\right)\right\}$$

$$\left\{X56,\ \text{EXSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ X93,\ \text{ISOGONAL CONJUGATE OF } X(49),\ -\left(\left(R\left(l^{10} r+5 l^8 r^3+10 l^6 r^5+10 l^4 r^7+5 l^2 r^9+r^{11}-l^{10} R-32 l^8 r^2 R+2 l^6 r^4 R-148 l^4 r^6 R+87 l^2 r^8 R+12 r^{10} R+18 l^8 r R^2+124 l^6 r^3 R^2-264 l^4 r^5 R^2+452 l^2 r^7 R^2+54 r^9 R^2+10 l^8 R^3+86 l^6 r^2 R^3-190 l^4 r^4 R^3+874 l^2 r^6 R^3+116 r^8 R^3-218 l^6 r R^4-190 l^4 r^3 R^4+274 l^2 r^5 R^4+182 r^7 R^4-32 l^6 R^5+402 l^4 r^2 R^5-788 l^2 r^4 R^5+506 r^6 R^5+698 l^4 r R^6-1064 l^2 r^3 R^6+1262 r^5 R^6+34 l^4 R^7-1222 l^2 r^2 R^7+1652 r^4 R^7-795 l^2 r R^8+1253 r^3 R^8-7 l^2 R^9+754 r^2 R^9+296 r R^{10}-4 R^{11}\right)\right)\Big/\left((r-R)^2\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-8 l^2 R^2+24 r^2 R^2+32 r R^3+13 R^4\right)^2\right)\right)\right\}$$

$$\left\{X56,\ \text{EXSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ X94,\ \text{ISOGONAL CONJUGATE OF } X(50),\ -\left(\left(R\left(l^{10} r+5 l^8 r^3+10 l^6 r^5+10 l^4 r^7+5 l^2 r^9+r^{11}-l^{10} R-34 l^8 r^2 R-6 l^6 r^4 R-160 l^4 r^6 R+79 l^2 r^8 R+10 r^{10} R+18 l^8 r R^2+164 l^6 r^3 R^2-208 l^4 r^5 R^2+444 l^2 r^7 R^2+30 r^9 R^2+12 l^8 R^3+114 l^6 r^2 R^3-310 l^4 r^4 R^3+878 l^2 r^6 R^3+10 r^8 R^3-264 l^6 r R^4-608 l^4 r^3 R^4+376 l^2 r^5 R^4+16 r^7 R^4-54 l^6 R^5+582 l^4 r^2 R^5+6 l^2 r^4 R^5+618 r^6 R^5+1134 l^4 r R^6-816 l^2 r^3 R^6+1842 r^5 R^6+108 l^4 R^7-2898 l^2 r^2 R^7+2502 r^4 R^7-2025 l^2 r R^8+3087 r^3 R^8-81 l^2 R^9+3132 r^2 R^9+1296 r R^{10}\right)\right)\Big/\left((r-R)^2\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-12 l^2 R^2+28 r^2 R^2+48 r R^3+27 R^4\right)^2\right)\right)\right\}$$

$$\left\{X56,\ \text{EXSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ X95,\ \text{CEVAPOINT OF CENTROID AND CIRCUMCENTER},\ -\left(\left(R\left(l^{10} r+21 l^8 r^3+58 l^6 r^5+58 l^4 r^7+21 l^2 r^9+r^{11}-l^{10} R-44 l^8 r^2 R-270 l^6 r^4 R-268 l^4 r^6 R+231 l^2 r^8 R+16 r^{10} R+16 l^8 r R^2+264 l^6 r^3 R^2+712 l^4 r^5 R^2+824 l^2 r^7 R^2+104 r^9 R^2+8 l^8 R^3+120 l^6 r^2 R^3-72 l^4 r^4 R^3+1064 l^2 r^6 R^3+352 r^8 R^3-144 l^6 r R^4-720 l^4 r^3 R^4-48 l^2 r^5 R^4+656 r^7 R^4-16 l^6 R^5+160 l^4 r^2 R^5-1040 l^2 r^4 R^5+640 r^6 R^5+256 l^4 r R^6-512 l^2 r^3 R^6+256 r^5 R^6\right)\right)\Big/\left((r-R)^2\left(l^4+18 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-4 l^2 R^2+20 r^2 R^2+16 r R^3\right)^2\right)\right)\right\}$$

$$\left\{X56,\ \text{EXSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ X96,\ \text{ISOGONAL CONJUGATE OF } X(52),\ \frac{1}{(r-R)^2\left(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2-4 R^4\right)^2} R\left(l^{10} r-11 l^8 r^3-38 l^6 r^5-38 l^4 r^7-11 l^2 r^9+r^{11}-l^{10} R-6 l^8 r^2 R+170 l^6 r^4 R+248 l^4 r^6 R-161 l^2 r^8 R+22 r^{10} R+4 l^8 r R^2+112 l^6 r^3 R^2-504 l^4 r^5 R^2-688 l^2 r^7 R^2+180 r^9 R^2+12 l^8 R^3-48 l^6 r^2 R^3-1192 l^4 r^4 R^3-336 l^2 r^6 R^3+668 r^8 R^3-96 l^6 r R^4-112 l^4 r^3 R^4+2688 l^2 r^5 R^4+912 r^7 R^4-56 l^6 R^5+544 l^4 r^2 R^5+2376 l^2 r^4 R^5-784 r^6 R^5+400 l^4 r R^6-736 l^2 r^3 R^6-2992 r^5 R^6+128 l^4 R^7-1408 l^2 r^2 R^7-1216 r^4 R^7-656 l^2 r R^8+1200 r^3 R^8-144 l^2 R^9+1120 r^2 R^9+384 r R^{10}+64 R^{11}\right)\right\}$$

$$\left\{X56,\ \text{EXSIMILICENTER}(\text{CIRCUMCIRCLE},\ \text{INCIRCLE}),\ X97,\ \text{ISOGONAL CONJUGATE OF } X(53),\ \left(R^2\left(-4 l^6 r^4+28 l^4 r^6-28 l^2 r^8+4 r^{10}-l^8 r R+6 l^6 r^3 R+56 l^4 r^5 R-214 l^2 r^7 R+57 r^9 R+26 l^6 r^2 R^2-30 l^4 r^4 R^2-530 l^2 r^6 R^2+326 r^8 R^2+13 l^6 r R^3-289 l^4 r^3 R^3-229 l^2 r^5 R^3+921 r^7 R^3+l^6 R^4-262 l^4 r^2 R^4+1033 l^2 r^4 R^4+1148 r^6 R^4-80 l^4 r R^5+1720 l^2 r^3 R^5-264 r^5 R^5-8 l^4 R^6+1016 l^2 r^2 R^6-2592 r^4 R^6+240 l^2 r R^7-3056 r^3 R^7+16 l^2 R^8-1472 r^2 R^8-256 r R^9\right)\right)\Big/\left((r-R)^2\left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-7 l^2 R^2+23 r^2 R^2+28 r R^3+12 R^4\right)^2\right)\right\}$$

$$\{X56, \text{EXSIMILICENTER}(\text{CIRCUMCIRCLE}, \text{INCIRCLE}), X98, \text{TarryPoint}, \left(R\left(l^6 r + 3 l^4 r^3 + 3 l^2 r^5 + r^7 - l^6 R - 16 l^4 r^2 R - 21 l^2 r^4 R + 10 r^6 R + 8 l^4 r R^2 + 64 l^2 r^3 R^2 + 24 r^5 R^2 + 4 l^4 R^3 + 8 l^2 r^2 R^3 - 28 r^4 R^3 - 32 l^2 r R^4 - 96 r^3 R^4 + 64 r^2 R^5\right)\right) / \left((r - R)^2 \left(l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\right)\right)\}$$

$$\{X56, \text{EXSIMILICENTER}(\text{CIRCUMCIRCLE}, \text{INCIRCLE}), X99, \text{STEINER POINT}, -\frac{R\left(l^6 r + 3 l^4 r^3 + 3 l^2 r^5 + r^7 - l^6 R - 18 l^4 r^2 R + 7 l^2 r^4 R + 8 r^6 R + 16 l^4 r R^2 - 32 l^2 r^3 R^2 + 16 r^5 R^2\right)}{(r - R)^2 \left(l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\right)}\}$$

$$\{X56, \text{EXSIMILICENTER}(\text{CIRCUMCIRCLE}, \text{INCIRCLE}), X100, \text{ANTICOMPLEMENT OF FEUERBACH POINT}, \frac{R^2\left(l^2 r + 3 r^3 - l^2 R - 20 r^2 R + 16 r R^2\right)}{(r - R)^2 (2 r - R)}\}$$

$$\{X57, \text{ISOGONAL CONJUGATE OF } X(9), X58, \text{ISOGONAL CONJUGATE OF } X(10), -\frac{4 r^2 R\left(l^4 r - 4 l^2 r^3 + 3 r^5 + l^4 R - 9 l^2 r^2 R + 18 r^4 R - 24 l^2 r R^2 + 48 r^3 R^2 - 4 l^2 R^3 + 76 r^2 R^3 + 64 r R^4\right)}{(r - 2 R)^2 \left(-l^2 + 3 r^2 + 4 r R\right)^2}\}$$

$$\{X57, \text{ISOGONAL CONJUGATE OF } X(9), X59, \text{ISOGONAL CONJUGATE OF } X(11), -\left(\left(r^2 R\left(6 l^4 r^2 - 8 l^2 r^4 + 2 r^6 + 6 l^4 r R - 56 l^2 r^3 R + 34 r^5 R - 165 l^2 r^2 R^2 + 215 r^4 R^2 - 32 l^2 r R^3 + 596 r^3 R^3 + 4 l^2 R^4 + 592 r^2 R^4 - 64 r R^5\right)\right) / \left((r - 2 R)^2 (2 r - R) \left(-l^2 + r^2 + 5 r R + 4 R^2\right)^2\right)\right)\}$$

$$\{X57, \text{ISOGONAL CONJUGATE OF } X(9), X60, \text{ISOGONAL CONJUGATE OF } X(12), -\left(\left(r^2 R\left(12 l^4 r^3 - 16 l^2 r^5 + 4 r^7 + 34 l^4 r^2 R - 96 l^2 r^4 R + 46 r^6 R + 30 l^4 r R^2 - 298 l^2 r^3 R^2 + 240 r^5 R^2 + 8 l^4 R^3 - 471 l^2 r^2 R^3 + 733 r^4 R^3 - 304 l^2 r R^4 + 1356 r^3 R^4 - 36 l^2 R^5 + 1376 r^2 R^5 + 576 r R^6\right)\right) / \left((r - 2 R)^2 \left(-2 l^2 r + 2 r^3 - l^2 R + 7 r^2 R + 7 r R^2\right)^2\right)\right)\}$$

$$\{X57, \text{ISOGONAL CONJUGATE OF } X(9), X61, \text{ISOGONAL CONJUGATE OF } X(17), -\left(\left(12 r^2 R\left(3 l^4 r + 3 \sqrt{3}\, l^3 r^2 - l^2 r^3 - \sqrt{3}\, l r^4 + 3 l^4 R + 6 \sqrt{3}\, l^3 r R - 2 l^2 r^2 R - 10 \sqrt{3}\, l r^3 R + 3 r^4 R - 68 l^2 r R^2 - 32 \sqrt{3}\, l r^2 R^2 + 36 r^3 R^2 - 16 l^2 R^3 - 32 \sqrt{3}\, l r R^3 + 144 r^2 R^3 + 192 r R^4\right)\right) / \left((r - 2 R)^2 \left(3 l^2 + 2 \sqrt{3}\, l r - 3 r^2 - 12 r R\right)^2\right)\right)\}$$

$$\{X57, \text{ISOGONAL CONJUGATE OF } X(9), X62, \text{ISOGONAL CONJUGATE OF } X(18), -\left(\left(12 r^2 R\left(3 l^4 r - 3 \sqrt{3}\, l^3 r^2 - l^2 r^3 + \sqrt{3}\, l r^4 + 3 l^4 R - 6 \sqrt{3}\, l^3 r R - 2 l^2 r^2 R + 10 \sqrt{3}\, l r^3 R + 3 r^4 R - 68 l^2 r R^2 + 32 \sqrt{3}\, l r^2 R^2 + 36 r^3 R^2 - 16 l^2 R^3 + 32 \sqrt{3}\, l r R^3 + 144 r^2 R^3 + 192 r R^4\right)\right) / \left((r - 2 R)^2 \left(3 l^2 - 2 \sqrt{3}\, l r - 3 r^2 - 12 r R\right)^2\right)\right)\}$$

$$\{X57, \text{ISOGONAL CONJUGATE OF } X(9), X63, \text{ISOGONAL CONJUGATE OF } X(19), -\frac{R^2\left(5 l^2 r^2 + r^4 - 8 l^2 r R + 12 r^3 R - 4 l^2 R^2 + 48 r^2 R^2 + 64 r R^3\right)}{(r - 2 R)^2 (r + R)^2}\}$$

$$\{X57, \text{ISOGONAL CONJUGATE OF } X(9), X64, \text{ISOGONAL CONJUGATE OF } X(20), -\left(\left(4 R\left(-l^2 r^5 + r^7 + 2 l^4 r^2 R - 7 l^2 r^4 R + 8 r^6 R + 8 l^4 r R^2 - 24 l^2 r^3 R^2 + 32 r^5 R^2 - 12 l^4 R^3 - 48 l^2 r^2 R^3 + 80 r^4 R^3 + 16 l^2 r R^4 + 112 r^3 R^4 + 112 l^2 R^5 - 256 r R^6 - 256 R^7\right)\right) / \left((r - 2 R)^2 (-l + r + 2 R)^2 (l + r + 2 R)^2\right)\right)\}$$

$$\{X57, \text{ISOGONAL CONJUGATE OF } X(9), X65, \text{ORTHOCENTER OF THE INTOUCH TRIANGLE}, -\frac{r^4 (2 r - R)}{(r - 2 R)^2 R}\}$$

$$\left\{X57,\ \text{ISOGONAL CONJUGATE OF } X(9),\ X66,\ \text{ISOGONAL CONJUGATE OF } X(22),\right.$$
$$-\frac{1}{(r-2R)^2(-l+r+2R)^2(l+r+2R)^2\left(-l^2+r^2+4rR\right)^2}$$
$$\left(2l^{10}r^2-12l^8r^4+24l^6r^6-20l^4r^8+6l^2r^{10}-4l^{10}rR-2l^8r^3R+76l^6r^5R-128l^4r^7R+56l^2r^9R+\right.$$
$$2r^{11}R+45l^8r^2R^2-100l^6r^4R^2-86l^4r^6R^2+100l^2r^8R^2+41r^{10}R^2+36l^8rR^3-400l^6r^3R^3+$$
$$880l^4r^5R^3-608l^2r^7R^3+348r^9R^3+4l^8R^4-372l^6r^2R^4+2116l^4r^4R^4-3132l^2r^6R^4+1576r^8R^4-$$
$$176l^6rR^5+1984l^4r^3R^5-5776l^2r^5R^5+4096r^7R^5-16l^6R^6+1136l^4r^2R^6-5312l^2r^4R^6+$$
$$\left.\left.6160r^6R^6+320l^4rR^7-3008l^2r^3R^7+5312r^5R^7-1088l^2r^2R^8+2816r^4R^8+1024r^3R^9\right)\right\}$$

$$\left\{X57,\ \text{ISOGONAL CONJUGATE OF } X(9),\ X67,\ \text{ISOGONAL CONJUGATE OF } X(23),\right.$$
$$-\frac{1}{(r-2R)^2\left(-l^2+r^2+4rR\right)^2\left(-2l^2+2r^2+8rR+9R^2\right)}$$
$$\left(-3l^8r^2+20l^6r^4-30l^4r^6+12l^2r^8+r^{10}+4l^8rR-18l^6r^3R-54l^4r^5R+\right.$$
$$50l^2r^7R+18r^9R+4l^8R^2-12l^6r^2R^2+168l^4r^4R^2-100l^2r^6R^2+132r^8R^2-$$
$$104l^6rR^3+324l^4r^3R^3-756l^2r^5R^3+504r^7R^3-16l^6R^4+420l^4r^2R^4-1276l^2r^4R^4+$$
$$\left.\left.1060r^6R^4+288l^4rR^5-1024l^2r^3R^5+1200r^5R^5-528l^2r^2R^6+704r^4R^6+256r^3R^7\right)\right\}$$

$$\left\{X57,\ \text{ISOGONAL CONJUGATE OF } X(9),\ X68,\ \text{PRASOLOV POINT},\right.$$
$$-\left(\left(2l^6r^2-8l^4r^4+6l^2r^6-4l^6rR+6l^4r^3R+12l^2r^5R+2r^7R+11l^4r^2R^2-30l^2r^4R^2+\right.\right.$$
$$\left.\left.23r^6R^2+44l^4rR^3-132l^2r^3R^3+104r^5R^3-4l^4R^4-140l^2r^2R^4+240r^4R^4-112l^2rR^5+\right.\right.$$
$$\left.\left.\left.304r^3R^5+16l^2R^6+204r^2R^6+80rR^7-16R^8\right)\Big/\left((r-2R)^2(-l+r+2R)^2(l+r+2R)^2\right)\right)\right\}$$

$$\left\{X57,\ \text{ISOGONAL CONJUGATE OF } X(9),\ X69,\ \text{SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},\right.$$
$$-\left(\left(l^6r^2-9l^4r^4+7l^2r^6+r^8+20l^4r^3R+12r^7R-4l^6R^2-24l^4r^2R^2-36l^2r^4R^2+\right.\right.$$
$$\left.\left.\left.48r^6R^2+64l^4rR^3-128l^2r^3R^3+64r^5R^3\right)\Big/\left((r-2R)^2\left(-l^2+r^2+4rR\right)^2\right)\right)\right\}$$

$$\left\{X57,\ \text{ISOGONAL CONJUGATE OF } X(9),\ X70,\ \text{ISOGONAL CONJUGATE OF } X(26),\right.$$
$$-\left(\left(2l^{10}r^2-12l^8r^4+24l^6r^6-20l^4r^8+6l^2r^{10}-4l^{10}rR-2l^8r^3R+76l^6r^5R-128l^4r^7R+\right.\right.$$
$$56l^2r^9R+2r^{11}R+36l^8r^2R^2-60l^6r^4R^2-140l^4r^6R^2+124l^2r^8R^2+40r^{10}R^2+$$
$$56l^8rR^3-394l^6r^3R^3+706l^4r^5R^3-454l^2r^7R^3+342r^9R^3-535l^6r^2R^4+2349l^4r^4R^4-$$
$$3065l^2r^6R^4+1635r^8R^4-300l^6rR^5+3086l^4r^3R^5-7260l^2r^5R^5+4810r^7R^5+4l^6R^6+$$
$$2206l^4r^2R^6-9332l^2r^4R^6+9074r^6R^6+704l^4rR^7-7258l^2r^3R^7+11198r^5R^7-24l^4R^8-$$
$$\left.\left.3385l^2r^2R^8+9171r^4R^8-664l^2rR^9+4984r^3R^9+36l^2R^{10}+1628r^2R^{10}+208rR^{11}-16R^{12}\right)\Big/\right.$$
$$\left.\left.\left((r-2R)^2\left(l^4-2l^2r^2+r^4-8l^2rR+8r^3R-6l^2R^2+22r^2R^2+24rR^3+7R^4\right)^2\right)\right)\right\}$$

$$\left\{X57,\ \text{ISOGONAL CONJUGATE OF } X(9),\ X71,\ \text{ISOGONAL CONJUGATE OF } X(27),\right.$$
$$-\left(\left(4R^2\left(2l^4r^2+7l^2r^4+r^6+8l^4rR+32l^2r^3R+16r^5R-12l^4R^2+48l^2r^2R^2+100r^4R^2+16l^2rR^3+\right.\right.\right.$$
$$\left.\left.\left.304r^3R^3-16l^2R^4+448r^2R^4+256rR^5\right)\right)\Big/\left((r-2R)^2\left(l^2+r^2+6rR+8R^2\right)^2\right)\right)\right\}$$

$$\left\{X57,\ \text{ISOGONAL CONJUGATE OF } X(9),\ X72,\ \text{ISOGONAL CONJUGATE OF } X(28),\right.$$
$$\left.-\frac{-l^2r^3+r^5+5l^2r^2R-2r^4R-4l^2rR^2-16r^3R^2-4l^2R^3+12r^2R^3+64rR^4}{(r-2R)^2R}\right\}$$

$$\left\{X57,\ \text{ISOGONAL CONJUGATE OF } X(9),\ X73,\ \text{CROSSPOINT OF INCENTER AND CIRCUMCENTER},\right.$$
$$\left.-\frac{4r^2R\left(l^4r+2l^2r^3+r^5+l^4R+3l^2r^2R-2r^4R-24l^2rR^2-16r^3R^2-4l^2R^3+12r^2R^3+64rR^4\right)}{(r-2R)^2\left(l^2+r^2-2rR-4R^2\right)^2}\right\}$$

$$\left\{X57,\ \text{ISOGONAL CONJUGATE OF } X(9),\ X74,\ \text{ISOGONAL CONJUGATE OF EULER INFINITY POINT},\right.$$
$$\left.-\frac{R\left(-2l^2r^3+6r^5-17l^2r^2R+35r^4R-24l^2rR^2+88r^3R^2+36l^2R^3+92r^2R^3-48rR^4-144R^5\right)}{(r-2R)^2\left(-2l^2+2r^2+8rR+9R^2\right)}\right\}$$

$$\left\{X57,\ \text{ISOGONAL CONJUGATE OF } X(9),\ X75,\ \text{ISOTOMIC CONJUGATE OF INCENTER},\right.$$
$$-\left(\left(l^6r^2+3l^4r^4+3l^2r^6+r^8+4l^4r^3R-16l^2r^5R+12r^7R-4l^6R^2-40l^4r^2R^2+\right.\right.$$
$$\left.\left.\left.28l^2r^4R^2+48r^6R^2+64l^4rR^3+128l^2r^3R^3+64r^5R^3\right)\Big/\left((r-2R)^2\left(l^2+r^2+4rR\right)^2\right)\right)\right\}$$

$$\left\{X57,\ \text{ISOGONAL CONJUGATE OF } X(9),\ X76,\ \text{3rd BROCARD POINT},\ -\frac{1}{(r-2R)^2\left(l^4+2l^2r^2+r^4-8l^2rR+8r^3R+16r^2R^2\right)^2}\right.$$
$$\left(l^{10}r^2+5l^8r^4+10l^6r^6+10l^4r^8+5l^2r^{10}+r^{12}-20l^8r^3R-40l^6r^5R+40l^2r^9R+20r^{11}R-4l^{10}R^2-16l^8r^2R^2+120l^6r^4R^2-208l^4r^6R^2+76l^2r^8R^2+160r^{10}R^2+96l^8rR^3+32l^6r^3R^3+416l^4r^5R^3-160l^2r^7R^3+640r^9R^3-576l^6r^2R^4+384l^4r^4R^4-1088l^2r^6R^4+1280r^8R^4+1024l^4r^3R^5-2048l^2r^5R^5+1024r^7R^5\right)\Big\}$$

$$\left\{X57,\ \text{ISOGONAL CONJUGATE OF } X(9),\ X77,\ \text{ISOGONAL CONJUGATE OF } X(33),\ -\frac{r^2R\left(6l^4r-2l^2r^3-11l^2r^2R+r^4R-40l^2rR^2+12r^3R^2-4l^2R^3+48r^2R^3+64rR^4\right)}{(r-2R)^2\left(-l^2+rR+4R^2\right)^2}\right\}$$

$$\left\{X57,\ \text{ISOGONAL CONJUGATE OF } X(9),\ X78,\ \text{ISOGONAL CONJUGATE OF } X(34),\ -\frac{R\left(-2l^2r^3+6r^5+5l^2r^2R+9r^4R-36r^3R^2-4l^2R^3-32r^2R^3+64rR^4\right)}{(r-2R)^2(r-R)^2}\right\}$$

$$\left\{X57,\ \text{ISOGONAL CONJUGATE OF } X(9),\ X79,\ \text{ISOGONAL CONJUGATE OF } X(35),\ -\frac{4r^2\left(4l^2r^2-9l^2rR+3r^3R+2l^2R^2+19r^2R^2+28rR^3-9R^4\right)}{(r-2R)^2(2r+3R)^2}\right\}$$

$$\left\{X57,\ \text{ISOGONAL CONJUGATE OF } X(9),\ X80,\ \text{REFLECTION OF INCENTER IN FEUERBACH POINT},\ \frac{4r^2\left(-l^2r+r^3+2l^2R-r^2R-2rR^2-9R^3\right)}{(r-2R)^2(2r-R)}\right\}$$

$$\left\{X57,\ \text{ISOGONAL CONJUGATE OF } X(9),\ X81,\ \text{CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},\ -\frac{r^2R\left(6l^4r-2l^2r^3-11l^2r^2R+r^4R-40l^2rR^2+12r^3R^2-4l^2R^3+48r^2R^3+64rR^4\right)}{(r-2R)^2\left(-l^2+r^2+rR\right)^2}\right\}$$

$$\left\{X57,\ \text{ISOGONAL CONJUGATE OF } X(9),\ X82,\ \text{ISOGONAL CONJUGATE OF } X(38),\ -\frac{1}{(r-2R)^2\left(l^4-4l^2r^2+3r^4-9l^2rR+19r^3R+28r^2R^2\right)^2}\right.$$
$$\left.r^2R\left(6l^8r-24l^6r^3+44l^4r^5-40l^2r^7+14r^9-139l^6r^2R+431l^4r^4R-529l^2r^6R+245r^8R-32l^6rR^2+1284l^4r^3R^2-2688l^2r^5R^2+1692r^7R^2-4l^6R^3+632l^4r^2R^3-5700l^2r^4R^3+5808r^6R^3+128l^4rR^4-4160l^2r^3R^4+10\,304r^5R^4-1280l^2r^2R^5+9216r^4R^5+4096r^3R^6\right)\Big\}$$

$$\left\{X57,\ \text{ISOGONAL CONJUGATE OF } X(9),\ X83,\ \text{CEVAPOINT OF CENTROID AND SYMMEDIAN POINT},\ -\frac{1}{(r-2R)^2\left(5l^4-6l^2r^2+5r^4-40l^2rR+40r^3R+80r^2R^2\right)^2}\right.$$
$$\left(9l^{10}r^2+21l^8r^4+10l^6r^6-6l^4r^8-3l^2r^{10}+r^{12}-16l^{10}rR-148l^8r^3R-280l^6r^5R+240l^4r^7R-88l^2r^9R+36r^{11}R-4l^{10}R^2+432l^8r^2R^2+248l^6r^4R^2+1392l^4r^6R^2-1204l^2r^8R^2+544r^{10}R^2+160l^8rR^3-4512l^6r^3R^3+7008l^4r^5R^3-9184l^2r^7R^3+4480r^9R^3-2368l^6r^2R^4+24\,448l^4r^4R^4-37\,696l^2r^6R^4+21\,760r^8R^4+16\,384l^4r^3R^5-74\,752l^2r^5R^5+62\,464r^7R^5-53\,248l^2r^4R^6+98\,304r^6R^6+65\,536r^5R^7\right)\Big\}$$

$$\left\{X57,\ \text{ISOGONAL CONJUGATE OF } X(9),\ X84,\ \text{ISOGONAL CONJUGATE OF } X(40),\ \frac{4R^2\left(-3l^2r^2+r^4+8l^2rR-4l^2R^2-12r^2R^2-16rR^3+16R^4\right)}{r^2(r-2R)^2}\right\}$$

$$\left\{X57,\ \text{ISOGONAL CONJUGATE OF } X(9),\ X85,\ \text{ISOTOMIC CONJUGATE OF } X(9),\ -\left(\left(l^6r^2+3l^4r^4+3l^2r^6+r^8+28l^4r^3R+16l^2r^5R+20r^7R-4l^6R^2-72l^4r^2R^2+12l^2r^4R^2+160r^6R^2+32l^4rR^3+96l^2r^3R^3+640r^5R^3+448l^2r^2R^4+1280r^4R^4+1024r^3R^5\right)\Big/\left((r-2R)^2\left(l^2+r^2+8rR+16R^2\right)^2\right)\right)\right\}$$

$$\{X57,\ \text{ISOGONAL CONJUGATE OF } X(9),\ X86,\ \text{CEVAPOINT OF INCENTER AND CENTROID},$$
$$-\left(\left(9 l^6 r^2+19 l^4 r^4+11 l^2 r^6+r^8-16 l^6 r R+52 l^4 r^3 R+48 l^2 r^5 R+12 r^7 R-4 l^6 R^2+88 l^4 r^2 R^2+156 l^2 r^4 R^2+48 r^6 R^2+64 l^4 r R^3+128 l^2 r^3 R^3+64 r^5 R^3\right)\Big/\left((r-2R)^2\left(5 l^2+r^2+4 r R\right)^2\right)\right)\}$$

$$\{X57,\ \text{ISOGONAL CONJUGATE OF } X(9),\ X87,\ X(2)\text{-CROSS CONJUGATE OF } X(1),$$
$$-\left(\left(4 r^2 R^2\left(3 l^8+4 l^6 r^2+10 l^4 r^4+20 l^2 r^6+11 r^8-96 l^6 r R-288 l^2 r^5 R+128 r^7 R-16 l^6 R^2+896 l^4 r^2 R^2-336 l^2 r^4 R^2+544 r^6 R^2+384 l^4 r R^3-2944 l^2 r^3 R^3+1280 r^5 R^3-2304 l^2 r^2 R^4+2816 r^4 R^4+4096 r^3 R^5\right)\right)\Big/\left((r-2R)^2\left(l^4+2 l^2 r^2+r^4-20 l^2 r R+12 r^3 R+32 r^2 R^2\right)^2\right)\right)\}$$

$$\{X57,\ \text{ISOGONAL CONJUGATE OF } X(9),\ X88,\ \text{ISOGONAL CONJUGATE OF } X(44),$$
$$-\frac{r^2 R\left(2 l^4 r-6 l^2 r^3+8 l^4 R-3 l^2 r^2 R+9 r^4 R-168 l^2 r R^2+108 r^3 R^2-36 l^2 R^3+432 r^2 R^3+576 r R^4\right)}{(r-2R)^2\left(l^2+3 r^2-15 r R\right)^2}\}$$

$$\{X57,\ \text{ISOGONAL CONJUGATE OF } X(9),\ X89,\ \text{ISOGONAL CONJUGATE OF } X(45),$$
$$-\frac{r^2 R\left(20 l^4 r-12 l^2 r^3+8 l^4 R-51 l^2 r^2 R+9 r^4 R-264 l^2 r R^2+108 r^3 R^2-36 l^2 R^3+432 r^2 R^3+576 r R^4\right)}{(r-2R)^2\left(-2 l^2+6 r^2-3 r R\right)^2}\}$$

$$\{X57,\ \text{ISOGONAL CONJUGATE OF } X(9),\ X90,\ X(3)\text{-CROSS CONJUGATE OF } X(1),$$
$$-\frac{4 r^2 R^2\left(4 l^2 r^2-9 l^2 r R+3 r^3 R+2 l^2 R^2+19 r^2 R^2+28 r R^3-9 R^4\right)}{(r-2R)^2\left(r^2+2 r R-R^2\right)^2}\}$$

$$\{X57,\ \text{ISOGONAL CONJUGATE OF } X(9),\ X91,\ \text{ISOGONAL CONJUGATE OF } X(47),$$
$$-\left(\left(r^2\left(l^6 r^2+3 l^4 r^4+3 l^2 r^6+r^8-2 l^6 r R+2 l^4 r^3 R-14 l^2 r^5 R+14 r^7 R-28 l^4 r^2 R^2-8 l^2 r^4 R^2+68 r^6 R^2+32 l^4 r R^3+104 l^2 r^3 R^3+120 r^5 R^3-4 l^4 R^4+92 l^2 r^2 R^4-16 r^4 R^4-104 l^2 r R^5-216 r^3 R^5+16 l^2 R^6-80 r^2 R^6+96 r R^7-16 R^8\right)\right)\Big/\left((r-2R)^2\left(l^2 r+r^3-l^2 R+3 r^2 R+2 r R^2+2 R^3\right)^2\right)\right)\}$$

$$\{X57,\ \text{ISOGONAL CONJUGATE OF } X(9),\ X92,\ \text{CEVAPOINT OF INCENTER AND CLAWSON POINT},$$
$$-\frac{1}{(r-2R)^2\left(l^2+r^2-4R^2\right)^2}\left(l^6 r^2+3 l^4 r^4+3 l^2 r^6+r^8+4 l^4 r^3 R-16 l^2 r^5 R+12 r^7 R-4 l^6 R^2-64 l^4 r^2 R^2-4 l^2 r^4 R^2+40 r^6 R^2+96 l^4 r R^3+224 l^2 r^3 R^3-32 r^5 R^3+32 l^4 R^4-16 l^2 r^2 R^4-368 r^4 R^4-640 l^2 r R^5-320 r^3 R^5-64 l^2 R^6+768 r^2 R^6+1024 r R^7\right)\}$$

$$\{X57,\ \text{ISOGONAL CONJUGATE OF } X(9),\ X93,\ \text{ISOGONAL CONJUGATE OF } X(49),$$
$$-\left(\left(l^{10} r^2+5 l^8 r^4+10 l^6 r^6+10 l^4 r^8+5 l^2 r^{10}+r^{12}-20 l^8 r^3 R-40 l^6 r^5 R+40 l^2 r^9 R+20 r^{11} R-4 l^{10} R^2-34 l^8 r^2 R^2+124 l^6 r^4 R^2-136 l^4 r^6 R^2+136 l^2 r^8 R^2+170 r^{10} R^2+112 l^8 r R^3+180 l^6 r^3 R^3-124 l^4 r^5 R^3+108 l^2 r^7 R^3+812 r^9 R^3+40 l^8 R^4-548 l^6 r^2 R^4+352 l^4 r^4 R^4-1076 l^2 r^6 R^4+2464 r^8 R^4-1000 l^6 r R^5+2252 l^4 r^3 R^5-4520 l^2 r^5 R^5+5220 r^7 R^5-128 l^6 R^6+4262 l^4 r^2 R^6-8344 l^2 r^4 R^6+8434 r^6 R^6+2928 l^4 r R^7-9772 l^2 r^3 R^7+10828 r^5 R^7+136 l^4 R^8-7805 l^2 r^2 R^8+10695 r^4 R^8-3208 l^2 r R^9+7824 r^3 R^9-28 l^2 R^{10}+4076 r^2 R^{10}+1168 r R^{11}-16 R^{12}\right)\Big/\left((r-2R)^2\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-8 l^2 R^2+24 r^2 R^2+32 r R^3+13 R^4\right)^2\right)\right)\}$$

$$\{X57,\ \text{ISOGONAL CONJUGATE OF } X(9),\ X94,\ \text{ISOGONAL CONJUGATE OF } X(50),$$
$$-\left(\left(l^{10} r^2+5 l^8 r^4+10 l^6 r^6+10 l^4 r^8+5 l^2 r^{10}+r^{12}-20 l^8 r^3 R-40 l^6 r^5 R+40 l^2 r^9 R+20 r^{11} R-4 l^{10} R^2-40 l^8 r^2 R^2+108 l^6 r^4 R^2-148 l^4 r^6 R^2+136 l^2 r^8 R^2+172 r^{10} R^2+120 l^8 r R^3+296 l^6 r^3 R^3-64 l^4 r^5 R^3+104 l^2 r^7 R^3+856 r^9 R^3+48 l^8 R^4-654 l^6 r^2 R^4+42 l^4 r^4 R^4-1250 l^2 r^6 R^4+2870 r^8 R^4-1272 l^6 r R^5+2488 l^4 r^3 R^5-5360 l^2 r^5 R^5+7264 r^7 R^5-216 l^6 R^6+6864 l^4 r^2 R^6-11340 l^2 r^4 R^6+14652 r^6 R^6+4968 l^4 r R^7-18744 l^2 r^3 R^7+23208 r^5 R^7+432 l^4 R^8-19611 l^2 r^2 R^8+28593 r^4 R^8-8424 l^2 r R^9+27468 r^3 R^9-324 l^2 R^{10}+17712 r^2 R^{10}+5184 r R^{11}\right)\Big/\left((r-2R)^2\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-12 l^2 R^2+28 r^2 R^2+48 r R^3+27 R^4\right)^2\right)\right)\}$$

$$\{X57,\ \text{ISOGONAL CONJUGATE OF } X(9),\ X95,\ \text{CEVAPOINT OF CENTROID AND CIRCUMCENTER},$$
$$-\Big(\big(l^{10} r^2 + 21 l^8 r^4 + 58 l^6 r^6 + 58 l^4 r^8 + 21 l^2 r^{10} + r^{12} - 20 l^8 r^3 R - 200 l^6 r^5 R + 576 l^4 r^7 R + 264 l^2 r^9 R + 20 r^{11} R - 4 l^{10} R^2 - 88 l^8 r^2 R^2 + 72 l^6 r^4 R^2 + 1584 l^4 r^6 R^2 + 1340 l^2 r^8 R^2 + 168 r^{10} R^2 + 96 l^8 r R^3 + 1056 l^6 r^3 R^3 + 352 l^4 r^5 R^3 + 3232 l^2 r^7 R^3 + 768 r^9 R^3 + 32 l^8 R^4 - 144 l^6 r^2 R^4 - 3120 l^4 r^4 R^4 + 2960 l^2 r^6 R^4 + 2064 r^8 R^4 - 640 l^6 r R^5 - 1472 l^4 r^3 R^5 - 1664 l^2 r^5 R^5 + 3264 r^7 R^5 - 64 l^6 R^6 + 1664 l^4 r^2 R^6 - 4672 l^2 r^4 R^6 + 2816 r^6 R^6 + 1024 l^4 r R^7 - 2048 l^2 r^3 R^7 + 1024 r^5 R^7\big) \Big/ \big((r-2R)^2 \left(l^4 + 18 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 4 l^2 R^2 + 20 r^2 R^2 + 16 r R^3\right)^2\big)\Big)\}$$

$$\{X57,\ \text{ISOGONAL CONJUGATE OF } X(9),\ X96,\ \text{ISOGONAL CONJUGATE OF } X(52),$$
$$\frac{1}{(r-2R)^2 \left(l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2 - 4 R^4\right)^2}$$
$$\big(l^{10} r^2 - 11 l^8 r^4 - 38 l^6 r^6 - 38 l^4 r^8 - 11 l^2 r^{10} + r^{12} - 24 l^8 r^3 R + 232 l^6 r^5 R - 344 l^4 r^7 R - 72 l^2 r^9 R + 16 r^{11} R - 4 l^{10} R^2 + 36 l^8 r^2 R^2 + 560 l^6 r^4 R^2 - 1728 l^4 r^6 R^2 + 148 l^2 r^8 R^2 + 92 r^{10} R^2 + 64 l^8 r R^3 - 288 l^6 r^3 R^3 - 4080 l^4 r^5 R^3 + 2560 l^2 r^7 R^3 + 144 r^9 R^3 + 48 l^8 R^4 - 824 l^6 r^2 R^4 - 1432 l^4 r^4 R^4 + 8504 l^2 r^6 R^4 - 792 r^8 R^4 - 608 l^6 r R^5 + 4128 l^4 r^3 R^5 + 9664 l^2 r^5 R^5 - 4416 r^7 R^5 - 224 l^6 R^6 + 4448 l^4 r^2 R^6 - 3456 l^2 r^4 R^6 - 8320 r^6 R^6 + 2112 l^4 r R^7 - 13056 l^2 r^3 R^7 - 3584 r^5 R^7 + 512 l^4 R^8 - 9136 l^2 r^2 R^8 + 8848 r^4 R^8 - 3200 l^2 r R^9 + 12288 r^3 R^9 - 576 l^2 R^{10} + 6464 r^2 R^{10} + 1792 r R^{11} + 256 R^{12}\big)\}$$

$$\{X57,\ \text{ISOGONAL CONJUGATE OF } X(9),\ X97,\ \text{ISOGONAL CONJUGATE OF } X(53),$$
$$-\Big(\big(R\big(4 l^8 r^3 - 36 l^6 r^5 + 76 l^4 r^7 - 12 l^2 r^9 + 2 l^8 r^2 R - 94 l^6 r^4 R + 434 l^4 r^6 R - 170 l^2 r^8 R + 4 r^{10} R + 4 l^8 r R^2 - 148 l^6 r^3 R^2 + 1128 l^4 r^5 R^2 - 1100 l^2 r^7 R^2 + 84 r^9 R^2 - 139 l^6 r^2 R^3 + 1959 l^4 r^4 R^3 - 4109 l^2 r^6 R^3 + 753 r^8 R^3 - 56 l^6 r R^4 + 2260 l^4 r^3 R^4 - 9456 l^2 r^5 R^4 + 3764 r^7 R^4 - 4 l^6 R^5 + 1328 l^4 r^2 R^5 - 13428 l^2 r^4 R^5 + 11496 r^6 R^5 + 352 l^4 r R^6 - 11232 l^2 r^3 R^6 + 22080 r^5 R^6 + 32 l^4 R^7 - 5008 l^2 r^2 R^7 + 26384 r^4 R^7 - 1024 l^2 r R^8 + 18624 r^3 R^8 - 64 l^2 R^9 + 6912 r^2 R^9 + 1024 r R^{10}\big)\big) \Big/ \big((r-2R)^2 \left(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 7 l^2 R^2 + 23 r^2 R^2 + 28 r R^3 + 12 R^4\right)^2\big)\Big)\}$$

$$\{X57,\ \text{ISOGONAL CONJUGATE OF } X(9),\ X98,\ \text{TarryPoint},$$
$$\big(l^6 r^2 + 3 l^4 r^4 + 3 l^2 r^6 + r^8 - 16 l^4 r^3 R + 24 l^2 r^5 R + 8 r^7 R - 4 l^6 R^2 - 20 l^4 r^2 R^2 + 100 l^2 r^4 R^2 + 4 r^6 R^2 + 48 l^4 r R^3 + 192 l^2 r^3 R^3 - 112 r^5 R^3 + 16 l^4 R^4 - 96 l^2 r^2 R^4 - 304 r^4 R^4 - 128 l^2 r R^5 - 128 r^3 R^5 + 256 r^2 R^6\big) \Big/ \big((r-2R)^2 \left(l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\right)\big)\}$$

$$\{X57,\ \text{ISOGONAL CONJUGATE OF } X(9),\ X99,\ \text{STEINER POINT},$$
$$-\Big(\big(l^6 r^2 + 3 l^4 r^4 + 3 l^2 r^6 + r^8 - 12 l^4 r^3 R - 32 l^2 r^5 R + 12 r^7 R - 4 l^6 R^2 - 8 l^4 r^2 R^2 - 100 l^2 r^4 R^2 + 48 r^6 R^2 + 64 l^4 r R^3 - 128 l^2 r^3 R^3 + 64 r^5 R^3\big) \Big/ \big((r-2R)^2 \left(l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\right)\big)\Big)\}$$

$$\{X57,\ \text{ISOGONAL CONJUGATE OF } X(9),\ X100,$$
$$\text{ANTICOMPLEMENT OF FEUERBACH POINT},\ -\frac{R\left(-l^2 r^2 + 3 r^4 + 20 r^3 R + 4 l^2 R^2 + 16 r^2 R^2 - 64 r R^3\right)}{(r-2R)^2 (2r-R)}\}$$

$$\{X58,\ \text{ISOGONAL CONJUGATE OF } X(10),\ X59,\ \text{ISOGONAL CONJUGATE OF } X(11),$$
$$\big(r^2 R^2 \big(-6 l^6 r - 10 l^4 r^3 - 2 l^2 r^5 + 2 r^7 - 5 l^6 R + 85 l^4 r^2 R + 89 l^2 r^4 R - r^6 R + 156 l^4 r R^2 - 240 l^2 r^3 R^2 - 108 r^5 R^2 + 32 l^4 R^3 - 948 l^2 r^2 R^3 - 228 r^4 R^3 - 672 l^2 r R^4 + 608 r^3 R^4 - 64 l^2 R^5 + 1728 r^2 R^5 + 1024 r R^6\big)\big) \Big/ \big((2r-R)\left(-l^2 + 3 r^2 + 4 r R\right)^2 \left(-l^2 + r^2 + 5 r R + 4 R^2\right)^2\big)\}$$

$$\{X58,\ \text{ISOGONAL CONJUGATE OF } X(10),\ X60,\ \text{ISOGONAL CONJUGATE OF } X(12),$$
$$-\frac{r^2 (2r-R) R^2 \left(l^2 + r^2 + 2 r R\right)^2 \left(6 l^2 r - 2 r^3 + l^2 R - 11 r^2 R - 16 r R^2\right)}{\left(l^2 - 3 r^2 - 4 r R\right)^2 \left(2 l^2 r - 2 r^3 + l^2 R - 7 r^2 R - 7 r R^2\right)^2}\}$$

$$\{X58,\ \text{ISOGONAL CONJUGATE OF } X(10),\ X61,\ \text{ISOGONAL CONJUGATE OF } X(17),$$
$$\frac{4 r^2 \left(\sqrt{3}\, l + 3 r\right)^2 R^2 \left(-l^2 - 2\sqrt{3}\, l r + r^2 + 4 r R\right) \left(-l^2 + 2\sqrt{3}\, l r + r^2 + 4 r R\right)}{\left(3 l^2 + 2\sqrt{3}\, l r - 3 r^2 - 12 r R\right)^2 \left(l^2 - 3 r^2 - 4 r R\right)^2}\}$$

$$\left\{X58,\ \text{ISOGONAL CONJUGATE OF } X(10),\ X62,\ \text{ISOGONAL CONJUGATE OF } X(18),\ \frac{4\left(\sqrt{3}\,l-3r\right)^2 r^2 R^2\left(-l^2-2\sqrt{3}\,l\,r+r^2+4rR\right)\left(-l^2+2\sqrt{3}\,l\,r+r^2+4rR\right)}{\left(3l^2-2\sqrt{3}\,l\,r-3r^2-12rR\right)^2\left(l^2-3r^2-4rR\right)^2}\right\}$$

$$\left\{X58,\ \text{ISOGONAL CONJUGATE OF } X(10),\ X63,\ \text{ISOGONAL CONJUGATE OF } X(19),\ -\frac{R\left(-l^2+r^2+2rR\right)^2\left(-2l^2r+6r^3-l^2R+19r^2R+16rR^2\right)}{(r+R)^2\left(-l^2+3r^2+4rR\right)^2}\right\}$$

$$\left\{X58,\ \text{ISOGONAL CONJUGATE OF } X(10),\ X64,\ \text{ISOGONAL CONJUGATE OF } X(20),\ \left(4R^2\left(3l^8-24l^6r^2+55l^4r^4-46l^2r^6+16r^8-48l^6rR+272l^4r^3R-408l^2r^5R+184r^7R-28l^6R^2+484l^4r^2R^2-1372l^2r^4R^2+916r^6R^2+336l^4rR^3-2208l^2r^3R^3+2480r^5R^3+64l^4R^4-1712l^2r^2R^4+3792r^4R^4-512l^2rR^5+3072r^3R^5+1024r^2R^6\right)\right)\Big/\left((l-r-2R)^2(l+r+2R)^2\left(l^2-3r^2-4rR\right)^2\right)\right\}$$

$$\left\{X58,\ \text{ISOGONAL CONJUGATE OF } X(10),\ X65,\ \text{ORTHOCENTER OF THE INTOUCH TRIANGLE},\ -\frac{r^2\left(-l^2+3r^2+4rR+4R^2\right)\left(-2l^2r+6r^3-l^2R+19r^2R+16rR^2\right)}{R\left(-l^2+3r^2+4rR\right)^2}\right\}$$

$$\left\{X58,\ \text{ISOGONAL CONJUGATE OF } X(10),\ X66,\ \text{ISOGONAL CONJUGATE OF } X(22),\ \frac{1}{(l-r-2R)^2(l+r+2R)^2\left(l^2-3r^2-4rR\right)^2\left(l^2-r^2-4rR\right)^2}\left(10l^{12}r^2-80l^{10}r^4+242l^8r^6-352l^6r^8+254l^4r^{10}-80l^2r^{12}+6r^{14}-208l^{10}r^3R+1344l^8r^5R-3104l^6r^7R+3136l^4r^9R-1296l^2r^{11}R+128r^{13}R-l^{12}R^2-94l^{10}r^2R^2+2397l^8r^4R^2-10196l^6r^6R^2+15513l^4r^8R^2-8782l^2r^{10}R^2+1163r^{12}R^2+24l^{10}rR^3+1528l^8r^3R^3-15632l^6r^5R^3+39472l^4r^7R^3-32264l^2r^9R^3+5848r^{11}R^3+4l^{10}R^4+92l^8r^2R^4-11128l^6r^4R^4+54968l^4r^6R^4-69516l^2r^8R^4+17644r^{10}R^4-80l^8rR^5-2688l^6r^3R^5+40544l^4r^5R^5-88320l^2r^7R^5+32112r^9R^5+208l^6r^2R^6+13408l^4r^4R^6-62384l^2r^6R^6+32704r^8R^6+896l^4r^3R^7-20608l^2r^5R^7+13312r^7R^7-1792l^2r^4R^8-4096r^6R^8-4096r^5R^9\right)\right\}$$

$$\left\{X58,\ \text{ISOGONAL CONJUGATE OF } X(10),\ X67,\ \text{ISOGONAL CONJUGATE OF } X(23),\ \frac{1}{\left(l^2-3r^2-4rR\right)^2\left(l^2-r^2-4rR\right)^2\left(2l^2-2r^2-8rR-9R^2\right)}\left(l^{12}+14l^{10}r^2-133l^8r^4+356l^6r^6-377l^4r^8+142l^2r^{10}-3r^{12}-24l^{10}rR-200l^8r^3R+1552l^6r^5R-2832l^4r^7R+1544l^2r^9R-40r^{11}R-4l^{10}R^2+68l^8r^2R^2+2000l^6r^4R^2-7712l^4r^6R^2+6580l^2r^8R^2-164r^{10}R^2+80l^8rR^3+704l^6r^3R^3-9536l^4r^5R^3+13952l^2r^7R^3+48r^9R^3-208l^6r^2R^4-5220l^4r^4R^4+15368l^2r^6R^4+2268r^8R^4-896l^4r^3R^5+8224l^2r^5R^5+6880r^7R^5+1792l^2r^4R^6+8640r^6R^6+4096r^5R^7\right)\right\}$$

$$\left\{X58,\ \text{ISOGONAL CONJUGATE OF } X(10),\ X68,\ \text{PRASOLOV POINT},\ \frac{1}{(l-r-2R)^2(l+r+2R)^2\left(l^2-3r^2-4rR\right)^2}\left(10l^8r^2-60l^6r^4+112l^4r^6-68l^2r^8+6r^{10}-128l^6r^3R+528l^4r^5R-544l^2r^7R+80r^9R+l^8R^2-104l^6r^2R^2+1018l^4r^4R^2-1824l^2r^6R^2+445r^8R^2-16l^6rR^3+928l^4r^3R^3-3216l^2r^5R^3+1344r^7R^3-4l^6R^4+388l^4r^2R^4-3164l^2r^4R^4+2396r^6R^4+48l^4rR^5-1696l^2r^3R^5+2544r^5R^5+4l^4R^6-440l^2r^2R^6+1540r^4R^6-32l^2rR^7+480r^3R^7+64r^2R^8\right)\right\}$$

$$\left\{X58,\ \text{ISOGONAL CONJUGATE OF } X(10),\ X69,\ \text{SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},\ \left(l^{10}+5l^8r^2-58l^6r^4+126l^4r^6-71l^2r^8-3r^{10}-20l^8rR-32l^6r^3R+392l^4r^5R-416l^2r^7R-52r^9R+52l^6r^2R^2+412l^4r^4R^2-948l^2r^6R^2-348r^8R^2+224l^4r^3R^3-1024l^2r^5R^3-1120r^7R^3-448l^2r^4R^4-1728r^6R^4-1024r^5R^5\right)\Big/\left(\left(l^2-3r^2-4rR\right)^2\left(l^2-r^2-4rR\right)^2\right)\right\}$$

$$\{X58,\ \text{ISOGONAL CONJUGATE OF } X(10),\ X70,\ \text{ISOGONAL CONJUGATE OF } X(26),$$
$$\big(10\,l^{12}r^2-80\,l^{10}r^4+242\,l^8r^6-352\,l^6r^8+254\,l^4r^{10}-80\,l^2r^{12}+6\,r^{14}-208\,l^{10}r^3R+1344\,l^8r^5R-$$
$$3104\,l^6r^7R+3136\,l^4r^9R-1296\,l^2r^{11}R+128\,r^{13}R-140\,l^{10}r^2R^2+2684\,l^8r^4R^2-10\,872\,l^6r^6R^2+$$
$$16\,216\,l^4r^8R^2-9084\,l^2r^{10}R^2+1196\,r^{12}R^2+2336\,l^8r^3R^3-19\,456\,l^6r^5R^3+45\,760\,l^4r^7R^3-$$
$$36\,096\,l^2r^9R^3+6432\,r^{11}R^3-l^{10}R^4+741\,l^8r^2R^4-18\,794\,l^6r^4R^4+76\,842\,l^4r^6R^4-89\,493\,l^2r^8R^4+$$
$$22\,001\,r^{10}R^4+20\,l^8rR^5-9344\,l^6r^3R^5+78\,408\,l^4r^5R^5-143\,648\,l^2r^7R^5+49\,924\,r^9R^5+6\,l^8R^6-$$
$$1936\,l^6r^2R^6+47\,524\,l^4r^4R^6-150\,160\,l^2r^6R^6+76\,086\,r^8R^6-96\,l^6rR^7+15\,840\,l^4r^3R^7-$$
$$100\,576\,l^2r^5R^7+77\,280\,r^7R^7-9\,l^6R^8+2409\,l^4r^2R^8-41\,571\,l^2r^4R^8+51\,179\,r^6R^8+108\,l^4rR^9-$$
$$9816\,l^2r^3R^9+21\,564\,r^5R^9+4\,l^4R^{10}-1100\,l^2r^2R^{10}+5728\,r^4R^{10}-32\,l^2rR^{11}+896\,r^3R^{11}+64\,r^2R^{12}\big)\Big/$$
$$\big((l^2-3r^2-4rR)^2\,(l^4-2\,l^2r^2+r^4-8\,l^2rR+8\,r^3R-6\,l^2R^2+22\,r^2R^2+24\,rR^3+7\,R^4)^2\big)\}$$

$$\{X58,\ \text{ISOGONAL CONJUGATE OF } X(10),\ X71,\ \text{ISOGONAL CONJUGATE OF } X(27),$$
$$\big(4\,R^2\,(3\,l^8-22\,l^6r^2+28\,l^4r^4-10\,l^2r^6+r^8-28\,l^6rR+52\,l^4r^3R-36\,l^2r^5R+$$
$$12\,r^7R+4\,l^6R^2-32\,l^4r^2R^2-32\,l^2r^4R^2+52\,r^6R^2-64\,l^4rR^3+96\,r^5R^3+64\,r^4R^4)\big)\Big/$$
$$\big((l^2-3r^2-4rR)^2\,(l^2+r^2+6rR+8R^2)^2\big)\}$$

$$\{X58,\ \text{ISOGONAL CONJUGATE OF } X(10),\ X72,\ \text{ISOGONAL CONJUGATE OF } X(28),$$
$$-\frac{1}{R\,(-l^2+3r^2+4rR)^2}\big(-l^6r+7\,l^4r^3-15\,l^2r^5+9\,r^7-l^6R+16\,l^4r^2R-61\,l^2r^4R+$$
$$66\,r^6R+20\,l^4rR^2-116\,l^2r^3R^2+168\,r^5R^2-68\,l^2r^2R^3+172\,r^4R^3+64\,r^3R^4\big)\}$$

$$\{X58,\ \text{ISOGONAL CONJUGATE OF } X(10),\ X73,\ \text{CROSSPOINT OF INCENTER AND CIRCUMCENTER},$$
$$-\big((16\,r^2R^2\,(12\,l^2r^4-4\,r^6+l^4rR+18\,l^2r^3R-31\,r^5R+l^4R^2-13\,l^2r^2R^2-74\,r^4R^2-24\,l^2rR^3-$$
$$32\,r^3R^3-4\,l^2R^4+76\,r^2R^4+64\,rR^5)\big)\Big/\big((l^2-3r^2-4rR)^2\,(l^2+r^2-2rR-4R^2)^2\big)\big)\}$$

$$\{X58,\ \text{ISOGONAL CONJUGATE OF } X(10),\ X74,\ \text{ISOGONAL CONJUGATE OF EULER INFINITY POINT},$$
$$\big(R^2\,(9\,l^6-81\,l^4r^2+131\,l^2r^4-35\,r^6-108\,l^4rR+504\,l^2r^3R-284\,r^5R-36\,l^4R^2+684\,l^2r^2R^2-864\,r^4R^2+$$
$$288\,l^2rR^3-1152\,r^3R^3-576\,r^2R^4)\big)\Big/\big((l^2-3r^2-4rR)^2\,(2\,l^2-2r^2-8rR-9R^2)\big)\}$$

$$\{X58,\ \text{ISOGONAL CONJUGATE OF } X(10),\ X75,\ \text{ISOTOMIC CONJUGATE OF INCENTER},$$
$$\big(l^{10}+l^8r^2-6\,l^6r^4-14\,l^4r^6-11\,l^2r^8-3\,r^{10}-20\,l^8rR+80\,l^6r^3R-216\,l^4r^5R+144\,l^2r^7R-$$
$$52\,r^9R+84\,l^6r^2R^2-500\,l^4r^4R^2+860\,l^2r^6R^2-348\,r^8R^2-352\,l^4r^3R^3+1344\,l^2r^5R^3-$$
$$1120\,r^7R^3+576\,l^2r^4R^4-1728\,r^6R^4-1024\,r^5R^5\big)\Big/\big((l^2-3r^2-4rR)^2\,(l^2+r^2+4rR)^2\big)\}$$

$$\{X58,\ \text{ISOGONAL CONJUGATE OF } X(10),\ X76,\ \text{3rd BROCARD POINT},$$
$$\frac{1}{(l^2-3r^2-4rR)^2\,(l^4+2\,l^2r^2+r^4-8\,l^2rR+8\,r^3R+16\,r^2R^2)^2}$$
$$\big(l^{14}+3\,l^{12}r^2-3\,l^{10}r^4-25\,l^8r^6-45\,l^6r^8-39\,l^4r^{10}-17\,l^2r^{12}-3\,r^{14}-28\,l^{12}rR-24\,l^{10}r^3R+$$
$$108\,l^8r^5R+112\,l^6r^7R-132\,l^4r^9R-216\,l^2r^{11}R-76\,r^{13}R+228\,l^{10}r^2R^2+228\,l^8r^4R^2-$$
$$1752\,l^6r^6R^2+2056\,l^4r^8R^2-1100\,l^2r^{10}R^2-812\,r^{12}R^2-512\,l^8r^3R^3-2688\,l^6r^5R^3+7808\,l^4r^7R^3-$$
$$2944\,l^2r^9R^3-4736\,r^{11}R^3-1408\,l^6r^4R^4+10\,624\,l^4r^6R^4-4224\,l^2r^8R^4-16\,256\,r^{10}R^4+$$
$$6144\,l^4r^5R^5-2048\,l^2r^7R^5-32\,768\,r^9R^5+1024\,l^2r^6R^6-35\,840\,r^8R^6-16\,384\,r^7R^7\big)\}$$

$$\{X58,\ \text{ISOGONAL CONJUGATE OF } X(10),\ X77,\ \text{ISOGONAL CONJUGATE OF } X(33),$$
$$\big(r^2R\,(4\,l^6r-16\,l^4r^3+12\,l^2r^5+5\,l^6R-85\,l^4r^2R+83\,l^2r^4R-3\,r^6R-124\,l^4rR^2+336\,l^2r^3R^2-52\,r^5R^2-$$
$$32\,l^4R^3+756\,l^2r^2R^3-348\,r^4R^3+672\,l^2rR^4-1120\,r^3R^4+64\,l^2R^5-1728\,r^2R^5-1024\,rR^6)\big)\Big/$$
$$\big((l^2-3r^2-4rR)^2\,(l^2-rR-4R^2)^2\big)\}$$

$$\{X58,\ \text{ISOGONAL CONJUGATE OF } X(10),\ X78,\ \text{ISOGONAL CONJUGATE OF } X(34),$$
$$-\big((R\,(4\,l^4r^3-16\,l^2r^5+12\,r^7-l^6R+l^4r^2R-23\,l^2r^4R+87\,r^6R+20\,l^4rR^2-96\,l^2r^3R^2+$$
$$204\,r^5R^2-68\,l^2r^2R^3+172\,r^4R^3+64\,r^3R^4)\big)\Big/\big((r-R)^2\,(-l^2+3r^2+4rR)^2\big)\big)\}$$

$$\{X58,\ \text{ISOGONAL CONJUGATE OF } X(10),\ X79,\ \text{ISOGONAL CONJUGATE OF } X(35),$$
$$\big(4\,r^2\,(-2\,l^6+18\,l^4r^2-38\,l^2r^4+6\,r^6+28\,l^4rR-120\,l^2r^3R+44\,r^5R+6\,l^4R^2-124\,l^2r^2R^2+94\,r^4R^2-$$
$$36\,l^2rR^3-4\,r^3R^3+9\,l^2R^4-195\,r^2R^4-144\,rR^5)\big)\Big/\big((2r+3R)^2\,(-l^2+3r^2+4rR)^2\big)\}$$

$$\left\{X58,\ \text{ISOGONAL CONJUGATE OF } X(10),\ X80,\ \text{REFLECTION OF INCENTER IN FEUERBACH POINT},\ \frac{4 r^2 \left(4 l^4 r-16 l^2 r^3+12 r^5-28 l^2 r^2 R+52 r^4 R-18 l^2 r R^2+86 r^3 R^2-l^2 R^3+59 r^2 R^3+16 r R^4\right)}{(2 r-R) \left(-l^2+3 r^2+4 r R\right)^2}\right\}$$

$$\left\{X58,\ \text{ISOGONAL CONJUGATE OF } X(10),\ X81,\ \text{CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},\ \frac{r^2 R \left(l^2+r^2+2 r R\right)^2 \left(2 l^2 r-6 r^3+l^2 R-19 r^2 R-16 r R^2\right)}{\left(l^2-3 r^2-4 r R\right)^2 \left(l^2-r^2-r R\right)^2}\right\}$$

$$\{X58,\ \text{ISOGONAL CONJUGATE OF } X(10),\ X82,\ \text{ISOGONAL CONJUGATE OF } X(38),\ \left(r^2 R^2 \left(l^{10}-7 l^8 r^2+10 l^6 r^4+18 l^4 r^6-27 l^2 r^8-27 r^{10}-28 l^8 r R+256 l^6 r^3 R-664 l^4 r^5 R+608 l^2 r^7 R-492 r^9 R+276 l^6 r^2 R^2-2228 l^4 r^4 R^2+4636 l^2 r^6 R^2-3356 r^8 R^2-1632 l^4 r^3 R^3+9152 l^2 r^5 R^3-10720 r^7 R^3+5184 l^2 r^4 R^4-16064 r^6 R^4-9216 r^5 R^5\right)\right) / \left(\left(l^2-3 r^2-4 r R\right)^2 \left(l^4-4 l^2 r^2+3 r^4-9 l^2 r R+19 r^3 R+28 r^2 R^2\right)^2\right)\}$$

$$\{X58,\ \text{ISOGONAL CONJUGATE OF } X(10),\ X83,\ \text{CEVAPOINT OF CENTROID AND SYMMEDIAN POINT},\ \left(l^{14}+11 l^{12} r^2-3 l^{10} r^4-81 l^8 r^6-109 l^6 r^8-15 l^4 r^{10}+47 l^2 r^{12}+21 r^{14}-28 l^{12} r R-216 l^{10} r^3 R+364 l^8 r^5 R+496 l^6 r^7 R-388 l^4 r^9 R+104 l^2 r^{11} R+436 r^{13} R+228 l^{10} r^2 R^2+1540 l^8 r^4 R^2-4504 l^6 r^6 R^2+3336 l^4 r^8 R^2-3468 l^2 r^{10} R^2+3764 r^{12} R^2-512 l^8 r^3 R^3-6016 l^6 r^5 R^3+20096 l^4 r^7 R^3-22656 l^2 r^9 R^3+17280 r^{11} R^3-1408 l^6 r^4 R^4+16768 l^4 r^6 R^4-48256 l^2 r^8 R^4+44160 r^{10} R^4+6144 l^4 r^5 R^5-30720 l^2 r^7 R^5+57344 r^9 R^5+1024 l^2 r^6 R^6+21504 r^8 R^6-16384 r^7 R^7\right) / \left(\left(l^2-3 r^2-4 r R\right)^2 \left(5 l^4-6 l^2 r^2+5 r^4-40 l^2 r R+40 r^3 R+80 r^2 R^2\right)^2\right)\}$$

$$\left\{X58,\ \text{ISOGONAL CONJUGATE OF } X(10),\ X84,\ \text{ISOGONAL CONJUGATE OF } X(40),\ \frac{1}{r^2 \left(-l^2+3 r^2+4 r R\right)^2} 4 R \left(l^6 r-4 l^4 r^3+3 l^2 r^5-l^6 R-4 l^4 r^2 R+10 l^2 r^4 R+r^6 R+8 l^4 r R^2-4 l^2 r^3 R^2+12 r^5 R^2+4 l^4 R^3-40 l^2 r^2 R^3+52 r^4 R^3-32 l^2 r R^4+96 r^3 R^4+64 r^2 R^5\right)\right\}$$

$$\left\{X58,\ \text{ISOGONAL CONJUGATE OF } X(10),\ X85,\ \text{ISOTOMIC CONJUGATE OF } X(9),\ \frac{1}{\left(l^2-3 r^2-4 r R\right)^2 \left(l^2+r^2+8 r R+16 R^2\right)^2} \left(l^{10}+l^8 r^2-6 l^6 r^4-14 l^4 r^6-11 l^2 r^8-3 r^{10}-28 l^8 r R+160 l^6 r^3 R-312 l^4 r^5 R-64 l^2 r^7 R-76 r^9 R+260 l^6 r^2 R^2-996 l^4 r^4 R^2+236 l^2 r^6 R^2-812 r^8 R^2+64 l^6 r R^3-1472 l^4 r^3 R^3+2432 l^2 r^5 R^3-4736 r^7 R^3-1152 l^4 r^2 R^4+5888 l^2 r^4 R^4-16256 r^6 R^4+5120 l^2 r^3 R^5-32768 r^5 R^5+1024 l^2 r^2 R^6-35840 r^4 R^6-16384 r^3 R^7\right)\right\}$$

$$\{X58,\ \text{ISOGONAL CONJUGATE OF } X(10),\ X86,\ \text{CEVAPOINT OF INCENTER AND CENTROID},\ \left(\left(l^2+r^2+2 r R\right)^2 \left(l^6+15 l^4 r^2-53 l^2 r^4-3 r^6-8 l^4 r R-48 l^2 r^3 R-40 r^5 R-112 l^2 r^2 R^2-176 r^4 R^2-256 r^3 R^3\right)\right) / \left(\left(l^2-3 r^2-4 r R\right)^2 \left(5 l^2+r^2+4 r R\right)^2\right)\}$$

$$\{X58,\ \text{ISOGONAL CONJUGATE OF } X(10),\ X87,\ X(2)\text{-CROSS CONJUGATE OF } X(1),\ -\left(\left(4 r^2 \left(l^2+r^2\right)^2 R \left(2 l^6 r-2 l^4 r^3-10 l^2 r^5-6 r^7-l^6 R-39 l^4 r^2 R+149 l^2 r^4 R-69 r^6 R+8 l^4 r R^2+16 l^2 r^3 R^2-248 r^5 R^2+112 l^2 r^2 R^3-208 r^4 R^3+256 r^3 R^4\right)\right) / \left(\left(l^2-3 r^2-4 r R\right)^2 \left(l^4+2 l^2 r^2+r^4-20 l^2 r R+12 r^3 R+32 r^2 R^2\right)^2\right)\right)\}$$

$$\{X58,\ \text{ISOGONAL CONJUGATE OF } X(10),\ X88,\ \text{ISOGONAL CONJUGATE OF } X(44),\ -\left(\left(r^2 R \left(10 l^6 r+54 l^4 r^3-306 l^2 r^5+162 r^7-l^6 R-119 l^4 r^2 R+117 l^2 r^4 R+747 r^6 R-20 l^4 r R^2-1296 l^2 r^3 R^2+1764 r^5 R^2+252 l^2 r^2 R^3+3852 r^4 R^3+5184 r^3 R^4\right)\right) / \left(\left(l^2+3 r^2-15 r R\right)^2 \left(l^2-3 r^2-4 r R\right)^2\right)\right)\}$$

$$\{X58,\ \text{ISOGONAL CONJUGATE OF } X(10),\ X89,\ \text{ISOGONAL CONJUGATE OF } X(45),\ -\left(\left(r^2 R \left(4 l^6 r+12 l^4 r^3-180 l^2 r^5+324 r^7-l^6 R-59 l^4 r^2 R-531 l^2 r^4 R+2151 r^6 R-20 l^4 r R^2-936 l^2 r^3 R^2+5868 r^5 R^2+252 l^2 r^2 R^3+8172 r^4 R^3+5184 r^3 R^4\right)\right) / \left(\left(l^2-3 r^2-4 r R\right)^2 \left(2 l^2-6 r^2+3 r R\right)^2\right)\right)\}$$

{X58, ISOGONAL CONJUGATE OF X(10), X90, X(3)-CROSS CONJUGATE OF X(1),

$$\left(4 r^2 R \left(l^6 r - 4 l^4 r^3 + 3 l^2 r^5 - 6 l^4 r^2 R + 7 l^2 r^4 R + r^6 R - 7 l^4 r R^2 + 16 l^2 r^3 R^2 + 7 r^5 R^2 + 20 l^2 r^2 R^3 + 12 r^4 R^3 + 16 l^2 r R^4 - 8 r^3 R^4 + l^2 R^5 - 27 r^2 R^5 - 16 r R^6\right)\right) \Big/ \left(\left(l^2 - 3 r^2 - 4 r R\right)^2 \left(r^2 + 2 r R - R^2\right)^2\right)\}$$

{X58, ISOGONAL CONJUGATE OF X(10), X91, ISOGONAL CONJUGATE OF X(47),

$$\frac{1}{\left(l^2 - 3 r^2 - 4 r R\right)^2 \left(l^2 r + r^3 - l^2 R + 3 r^2 R + 2 r R^2 + 2 R^3\right)^2}$$

$$r^2 \left(l^{10} + l^8 r^2 - 6 l^6 r^4 - 14 l^4 r^6 - 11 l^2 r^8 - 3 r^{10} - 28 l^8 r R + 96 l^6 r^3 R - 184 l^4 r^5 R + 128 l^2 r^7 R - 76 r^9 R - 8 l^8 R^2 + 220 l^6 r^2 R^2 - 780 l^4 r^4 R^2 + 1140 l^2 r^6 R^2 - 668 r^8 R^2 + 208 l^6 r R^3 - 1552 l^4 r^3 R^3 + 3504 l^2 r^5 R^3 - 2928 r^7 R^3 + 24 l^6 R^4 - 1384 l^4 r^2 R^4 + 5768 l^2 r^4 R^4 - 7288 r^6 R^4 - 560 l^4 r R^5 + 5536 l^2 r^3 R^5 - 10928 r^5 R^5 - 32 l^4 R^6 + 2832 l^2 r^2 R^6 - 10128 r^4 R^6 + 640 l^2 r R^7 - 5760 r^3 R^7 + 16 l^2 R^8 - 1840 r^2 R^8 - 256 r R^9\right)\}$$

{X58, ISOGONAL CONJUGATE OF X(10), X92,

CEVAPOINT OF INCENTER AND CLAWSON POINT, $\frac{1}{\left(l^2 - 3 r^2 - 4 r R\right)^2 \left(l^2 + r^2 - 4 R^2\right)^2}$

$$\left(l^{10} + l^8 r^2 - 6 l^6 r^4 - 14 l^4 r^6 - 11 l^2 r^8 - 3 r^{10} - 28 l^8 r R + 96 l^6 r^3 R - 184 l^4 r^5 R + 128 l^2 r^7 R - 76 r^9 R - 8 l^8 R^2 + 212 l^6 r^2 R^2 - 772 l^4 r^4 R^2 + 1180 l^2 r^6 R^2 - 644 r^8 R^2 + 192 l^6 r R^3 - 1440 l^4 r^3 R^3 + 3392 l^2 r^5 R^3 - 2656 r^7 R^3 + 16 l^6 R^4 - 1072 l^4 r^2 R^4 + 4784 l^2 r^4 R^4 - 5904 r^6 R^4 - 320 l^4 r R^5 + 3584 l^2 r^3 R^5 - 7104 r^5 R^5 + 1088 l^2 r^2 R^6 - 4288 r^4 R^6 - 1024 r^3 R^7\right)\}$$

{X58, ISOGONAL CONJUGATE OF X(10), X93, ISOGONAL CONJUGATE OF X(49),

$$\left(l^{14} + 3 l^{12} r^2 - 3 l^{10} r^4 - 25 l^8 r^6 - 45 l^6 r^8 - 39 l^4 r^{10} - 17 l^2 r^{12} - 3 r^{14} - 28 l^{12} r R - 24 l^{10} r^3 R + 108 l^8 r^5 R + 112 l^6 r^7 R - 132 l^4 r^9 R - 216 l^2 r^{11} R - 76 r^{13} R - 10 l^{12} R^2 + 172 l^{10} r^2 R^2 + 482 l^8 r^4 R^2 - 1528 l^6 r^6 R^2 + 1562 l^4 r^8 R^2 - 1524 l^2 r^{10} R^2 - 818 r^{12} R^2 + 240 l^{10} r R^3 + 96 l^8 r^3 R^3 - 6368 l^6 r^5 R^3 + 11648 l^4 r^7 R^3 - 7568 l^2 r^9 R^3 - 4960 r^{11} R^3 + 32 l^{10} R^4 - 940 l^8 r^2 R^4 - 8672 l^6 r^4 R^4 + 34344 l^4 r^6 R^4 - 25952 l^2 r^8 R^4 - 18844 r^{10} R^4 - 640 l^8 r R^5 - 4128 l^6 r^3 R^5 + 51872 l^4 r^5 R^5 - 59232 l^2 r^7 R^5 - 47008 r^9 R^5 - 34 l^8 R^6 + 476 l^6 r^2 R^6 + 42096 l^4 r^4 R^6 - 88252 l^2 r^6 R^6 - 78126 r^8 R^6 + 544 l^6 r R^7 + 16816 l^4 r^3 R^7 - 83264 l^2 r^5 R^7 - 85456 r^7 R^7 + 7 l^6 R^8 + 2237 l^4 r^2 R^8 - 47179 l^2 r^4 R^8 - 58753 r^6 R^8 - 84 l^4 r R^9 - 14296 l^2 r^3 R^9 - 22788 r^5 R^9 + 4 l^4 R^{10} - 1820 l^2 r^2 R^{10} - 3696 r^4 R^{10} - 32 l^2 r R^{11} + 64 r^3 R^{11} + 64 r^2 R^{12}\right) \Big/ \left(\left(l^2 - 3 r^2 - 4 r R\right)^2 \left(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 8 l^2 R^2 + 24 r^2 R^2 + 32 r R^3 + 13 R^4\right)^2\right)\}$$

{X58, ISOGONAL CONJUGATE OF X(10), X94, ISOGONAL CONJUGATE OF X(50),

$$\left(l^{14} + 3 l^{12} r^2 - 3 l^{10} r^4 - 25 l^8 r^6 - 45 l^6 r^8 - 39 l^4 r^{10} - 17 l^2 r^{12} - 3 r^{14} - 28 l^{12} r R - 24 l^{10} r^3 R + 108 l^8 r^5 R + 112 l^6 r^7 R - 132 l^4 r^9 R - 216 l^2 r^{11} R - 76 r^{13} R - 12 l^{12} R^2 + 168 l^{10} r^2 R^2 + 492 l^8 r^4 R^2 - 1488 l^6 r^6 R^2 + 1612 l^4 r^8 R^2 - 1496 l^2 r^{10} R^2 - 812 r^{12} R^2 + 288 l^{10} r R^3 + 112 l^8 r^3 R^3 - 6528 l^6 r^5 R^3 + 11552 l^4 r^7 R^3 - 7456 l^2 r^9 R^3 - 4880 r^{11} R^3 + 54 l^{10} R^4 - 1206 l^8 r^2 R^4 - 8740 l^6 r^4 R^4 + 34420 l^4 r^6 R^4 - 25746 l^2 r^8 R^4 - 18494 r^{10} R^4 - 1080 l^8 r R^5 - 3648 l^6 r^3 R^5 + 53136 l^4 r^5 R^5 - 58880 l^2 r^7 R^5 - 47000 r^9 R^5 - 108 l^8 R^6 + 1836 l^6 r^2 R^6 + 44028 l^4 r^4 R^6 - 88892 l^2 r^6 R^6 - 83360 r^8 R^6 + 1728 l^6 r R^7 + 18576 l^4 r^3 R^7 - 87264 l^2 r^5 R^7 - 105904 r^7 R^7 + 81 l^6 R^8 + 2187 l^4 r^2 R^8 - 55053 l^2 r^4 R^8 - 97095 r^6 R^8 - 972 l^4 r R^9 - 22248 l^2 r^3 R^9 - 62748 r^5 R^9 - 4860 l^2 r^2 R^{10} - 26028 r^4 R^{10} - 5184 r^3 R^{11}\right) \Big/ \left(\left(l^2 - 3 r^2 - 4 r R\right)^2 \left(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 12 l^2 R^2 + 28 r^2 R^2 + 48 r R^3 + 27 R^4\right)^2\right)\}$$

{X58, ISOGONAL CONJUGATE OF X(10), X95, CEVAPOINT OF CENTROID AND CIRCUMCENTER,

$$\left(l^{14} + 19 l^{12} r^2 + 13 l^{10} r^4 - 121 l^8 r^6 - 269 l^6 r^8 - 215 l^4 r^{10} - 65 l^2 r^{12} - 3 r^{14} - 28 l^{12} r R - 344 l^{10} r^3 R + 364 l^8 r^5 R + 752 l^6 r^7 R - 900 l^4 r^9 R - 1048 l^2 r^{11} R - 76 r^{13} R - 8 l^{12} R^2 + 132 l^{10} r^2 R^2 + 2012 l^8 r^4 R^2 - 6168 l^6 r^6 R^2 + 1840 l^4 r^8 R^2 - 7340 l^2 r^{10} R^2 - 836 r^{12} R^2 + 192 l^{10} r R^3 + 768 l^8 r^3 R^3 - 9472 l^6 r^5 R^3 + 16256 l^4 r^7 R^3 - 28096 l^2 r^9 R^3 - 5248 r^{11} R^3 + 16 l^{10} R^4 - 976 l^8 r^2 R^4 - 6752 l^6 r^4 R^4 + 34784 l^4 r^6 R^4 - 62128 l^2 r^8 R^4 - 20752 r^{10} R^4 - 320 l^8 r R^5 - 640 l^6 r^3 R^5 + 29952 l^4 r^5 R^5 - 78720 l^2 r^7 R^5 - 53696 r^9 R^5 + 832 l^6 r^2 R^6 + 17344 l^4 r^4 R^6 - 55104 l^2 r^6 R^6 - 91072 r^8 R^6 + 3584 l^4 r^3 R^7 - 22528 l^2 r^5 R^7 - 97792 r^7 R^7 - 7168 l^2 r^4 R^8 - 60416 r^6 R^8 - 16384 r^5 R^9\right) \Big/ \left(\left(l^2 - 3 r^2 - 4 r R\right)^2 \left(l^4 + 18 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 4 l^2 R^2 + 20 r^2 R^2 + 16 r R^3\right)^2\right)\}$$

$$\{X58,\ \text{ISOGONAL CONJUGATE OF } X(10),\ X96,\ \text{ISOGONAL CONJUGATE OF } X(52),$$
$$-\Big(\big(l^{14}-13\,l^{12}r^2-19\,l^{10}r^4+71\,l^8r^6+179\,l^6r^8+137\,l^4r^{10}+31\,l^2r^{12}-3\,r^{14}-28\,l^{12}r\,R+296\,l^{10}r^3R-$$
$$148\,l^8r^5R-528\,l^6r^7R+636\,l^4r^9R+616\,l^2r^{11}R-76\,r^{13}R-12\,l^{12}R^2+484\,l^{10}r^2R^2-$$
$$2856\,l^8r^4R^2+4168\,l^6r^6R^2-2460\,l^4r^8R^2+5524\,l^2r^{10}R^2-880\,r^{12}R^2+288\,l^{10}r\,R^3-5024\,l^8r^3R^3+$$
$$18\,368\,l^6r^5R^3-23\,744\,l^4r^7R^3+28\,448\,l^2r^9R^3-6048\,r^{11}R^3+56\,l^{10}R^4-3544\,l^8r^2R^4+$$
$$30\,928\,l^6r^4R^4-76\,624\,l^4r^6R^4+91\,256\,l^2r^8R^4-26\,968\,r^{10}R^4-1120\,l^8r\,R^5+25\,216\,l^6r^3R^5-$$
$$119\,744\,l^4r^5R^5+190\,848\,l^2r^7R^5-80\,864\,r^9R^5-128\,l^8R^6+10\,432\,l^6r^2R^6-104\,384\,l^4r^4R^6+$$
$$265\,536\,l^2r^6R^6-165\,312\,r^8R^6+2048\,l^6r\,R^7-51\,840\,l^4r^3R^7+238\,336\,l^2r^5R^7-231\,040\,r^7R^7+$$
$$144\,l^6R^8-13\,904\,l^4r^2R^8+133\,168\,l^2r^4R^8-218\,864\,r^6R^8-1728\,l^4r\,R^9+43\,904\,l^2r^3R^9-$$
$$136\,128\,r^5R^9-64\,l^4R^{10}+7616\,l^2r^2R^{10}-52\,480\,r^4R^{10}+512\,l^2r\,R^{11}-11\,264\,r^3R^{11}-1024\,r^2R^{12}\big)\Big/$$
$$\big((l^2-3\,r^2-4\,r\,R)^2\,(l^4-14\,l^2r^2+r^4-8\,l^2r\,R+8\,r^3R+16\,r^2R^2-4\,R^4)^2\big)\Big)\}$$

$$\{X58,\ \text{ISOGONAL CONJUGATE OF } X(10),\ X97,\ \text{ISOGONAL CONJUGATE OF } X(53),$$
$$\Big(R^2\,\big(2\,l^{10}r^2+2\,l^8r^4-60\,l^6r^6-108\,l^4r^8-38\,l^2r^{10}+10\,r^{12}-24\,l^8r^3R+32\,l^6r^5R-464\,l^4r^7R-$$
$$352\,l^2r^9R+168\,r^{11}R+l^{10}R^2+9\,l^8r^2R^2-106\,l^6r^4R^2-378\,l^4r^6R^2-1367\,l^2r^8R^2+$$
$$1201\,r^{10}R^2-20\,l^8r\,R^3-160\,l^6r^3R^3+840\,l^4r^5R^3-2976\,l^2r^7R^3+4748\,r^9R^3-8\,l^8R^4-$$
$$60\,l^6r^2R^4+1852\,l^4r^4R^4-4068\,l^2r^6R^4+11\,244\,r^8R^4+128\,l^6r\,R^5+1184\,l^4r^3R^5-$$
$$3712\,l^2r^5R^5+15\,968\,r^7R^5+16\,l^6R^6+272\,l^4r^2R^6-2704\,l^2r^4R^6+12\,400\,r^6R^6-$$
$$192\,l^4r\,R^7-2048\,l^2r^3R^7+3264\,r^5R^7-960\,l^2r^2R^8-1728\,r^4R^8-1024\,r^3R^9\big)\Big)\Big/$$
$$\big((l^2-3\,r^2-4\,r\,R)^2\,(l^4-6\,l^2r^2+r^4-8\,l^2r\,R+8\,r^3R-7\,l^2R^2+23\,r^2R^2+28\,r\,R^3+12\,R^4)^2\big)\}$$

$$\{X58,\ \text{ISOGONAL CONJUGATE OF } X(10),\ X98,\ \text{TarryPoint},$$
$$-\Big(\big(l^{10}+l^8r^2-6\,l^6r^4-14\,l^4r^6-11\,l^2r^8-3\,r^{10}-20\,l^8r\,R+16\,l^6r^3R+40\,l^4r^5R-48\,l^2r^7R-52\,r^9R-$$
$$4\,l^8R^2+148\,l^6r^2R^2-316\,l^4r^4R^2+188\,l^2r^6R^2-368\,r^8R^2+64\,l^6r\,R^3-640\,l^4r^3R^3+1024\,l^2r^5R^3-$$
$$1344\,r^7R^3-384\,l^4r^2R^4+1856\,l^2r^4R^4-2624\,r^6R^4+1024\,l^2r^3R^5-2560\,r^5R^5-1024\,r^4R^6\big)\Big/$$
$$\big((l^2-3\,r^2-4\,r\,R)^2\,(l^4-14\,l^2r^2+r^4-8\,l^2r\,R+8\,r^3R+16\,r^2R^2)\big)\Big)\}$$

$$\{X58,\ \text{ISOGONAL CONJUGATE OF } X(10),\ X99,\ \text{STEINER POINT},\ \Big(\big(l^2+r^2+2\,r\,R\big)^2$$
$$\big(l^6-l^4r^2-5\,l^2r^4-3\,r^6-24\,l^4r\,R+64\,l^2r^3R-40\,r^5R+144\,l^2r^2R^2-176\,r^4R^2-256\,r^3R^3\big)\Big)\Big/$$
$$\big((l^2-3\,r^2-4\,r\,R)^2\,(l^4-14\,l^2r^2+r^4-8\,l^2r\,R+8\,r^3R+16\,r^2R^2)\big)\}$$

$$\{X58,\ \text{ISOGONAL CONJUGATE OF } X(10),\ X100,\ \text{ANTICOMPLEMENT OF FEUERBACH POINT},$$
$$\frac{R\,\big(-l^6+l^4r^2+5\,l^2r^4+3\,r^6+20\,l^4r\,R-72\,l^2r^3R+36\,r^5R-68\,l^2r^2R^2+76\,r^4R^2+64\,r^3R^3\big)}{(2\,r-R)\,\big(-l^2+3\,r^2+4\,r\,R\big)^2}\}$$

$$\{X59,\ \text{ISOGONAL CONJUGATE OF } X(11),\ X60,$$
$$\text{ISOGONAL CONJUGATE OF } X(12),\ \Big(4\,r^2R^4\,\big(-10\,l^6r+50\,l^4r^3-62\,l^2r^5+6\,r^7-3\,l^6R+$$
$$139\,l^4r^2R-353\,l^2r^4R+81\,r^6R+138\,l^4r\,R^2-836\,l^2r^3R^2+434\,r^5R^2+20\,l^4R^3-$$
$$972\,l^2r^2R^3+1200\,r^4R^3-508\,l^2r\,R^4+1860\,r^3R^4-36\,l^2R^5+1568\,r^2R^5+576\,r\,R^6\big)\Big)\Big/$$
$$\big((2\,r-R)\,\big(-l^2+r^2+5\,r\,R+4\,R^2\big)^2\,\big(-2\,l^2r+2\,r^3-l^2R+7\,r^2R+7\,r\,R^2\big)^2\big)\}$$

$$\Big\{X59,\ \text{ISOGONAL CONJUGATE OF } X(11),\ X61,\ \text{ISOGONAL CONJUGATE OF } X(17),$$
$$\frac{1}{(2\,r-R)\,\big(3\,l^2+2\sqrt{3}\,l\,r-3\,r^2-12\,r\,R\big)^2\,\big(l^2-r^2-5\,r\,R-4\,R^2\big)^2}$$
$$3\,r^2R^2\,\Big(-2\sqrt{3}\,l^7-20\,l^6r+30\sqrt{3}\,l^5r^2+24\,l^4r^3-30\sqrt{3}\,l^3r^4-20\,l^2r^5+$$
$$2\sqrt{3}\,l\,r^6-19\,l^6R+14\sqrt{3}\,l^5r\,R+317\,l^4r^2R-180\sqrt{3}\,l^3r^3R-269\,l^2r^4R+$$
$$30\sqrt{3}\,l\,r^5R+3\,r^6R+8\sqrt{3}\,l^5R^2+484\,l^4r\,R^2-216\sqrt{3}\,l^3r^2R^2-1312\,l^2r^3R^2+$$
$$160\sqrt{3}\,l\,r^4R^2+60\,r^5R^2+128\,l^4R^3+96\sqrt{3}\,l^3r\,R^3-2720\,l^2r^2R^3+320\sqrt{3}\,l\,r^3R^3+$$
$$480\,r^4R^3-2048\,l^2r\,R^4+1920\,r^3R^4-256\,l^2R^5-512\sqrt{3}\,l\,r\,R^5+3840\,r^2R^5+3072\,r\,R^6\Big)\Big\}$$

$$\left\{X59,\ \text{ISOGONAL CONJUGATE OF } X(11),\ X62,\ \text{ISOGONAL CONJUGATE OF } X(18),\right.$$

$$\frac{1}{(2r-R)\left(3l^2-2\sqrt{3}\,l\,r-3r^2-12\,r\,R\right)^2\left(l^2-r^2-5\,r\,R-4R^2\right)^2}$$

$$3r^2R^2\left(2\sqrt{3}\,l^7-20\,l^6\,r-30\sqrt{3}\,l^5r^2+24\,l^4r^3+30\sqrt{3}\,l^3r^4-20\,l^2r^5-\right.$$
$$2\sqrt{3}\,l\,r^6-19\,l^6R-14\sqrt{3}\,l^5r\,R+317\,l^4r^2R+180\sqrt{3}\,l^3r^3R-269\,l^2r^4R-$$
$$30\sqrt{3}\,l\,r^5R+3r^6R-8\sqrt{3}\,l^5R^2+484\,l^4r\,R^2+216\sqrt{3}\,l^3r^2R^2-1312\,l^2r^3R^2-$$
$$160\sqrt{3}\,l\,r^4R^2+60\,r^5R^2+128\,l^4R^3-96\sqrt{3}\,l^3r\,R^3-2720\,l^2r^2R^3-320\sqrt{3}\,l\,r^3R^3+$$
$$\left.\left.480\,r^4R^3-2048\,l^2r\,R^4+1920\,r^3R^4-256\,l^2R^5+512\sqrt{3}\,l\,r\,R^5+3840\,r^2R^5+3072\,r\,R^6\right)\right\}$$

$$\left\{X59,\ \text{ISOGONAL CONJUGATE OF } X(11),\ X63,\ \text{ISOGONAL CONJUGATE OF } X(19),\right.$$
$$-\left(\left(R\left(-3\,l^6r^2+7\,l^4r^4-5\,l^2r^6+r^8+l^6r\,R+40\,l^4r^3R-55\,l^2r^5R+18\,r^7R+l^6R^2+18\,l^4r^2R^2-214\,l^2r^4\right.\right.\right.$$
$$R^2+125\,r^6R^2-32\,l^4r\,R^3-220\,l^2r^3R^3+408\,r^5R^3-8\,l^4R^4+104\,l^2r^2R^4+572\,r^4R^4+176\,l^2r\,R^5+$$
$$\left.\left.\left.80\,r^3R^5+16\,l^2R^6-448\,r^2R^6-256\,r\,R^7\right)\right)\Big/\left((2r-R)\,(r+R)^2\left(-l^2+r^2+5\,r\,R+4R^2\right)^2\right)\right)\Big\}$$

$$\left\{X59,\ \text{ISOGONAL CONJUGATE OF } X(11),\ X64,\ \text{ISOGONAL CONJUGATE OF } X(20),\right.$$

$$\frac{1}{(2r-R)\,(-l+r+2R)^2\,(l+r+2R)^2\left(-l^2+r^2+5\,r\,R+4R^2\right)^2}$$

$$R^2\left(18\,l^8r-72\,l^6r^3+108\,l^4r^5-72\,l^2r^7+18\,r^9-12\,l^8R-255\,l^6r^2R+837\,l^4r^4R-873\,l^2r^6R+\right.$$
$$303\,r^8R-112\,l^6r\,R^2+2276\,l^4r^3R^2-4256\,l^2r^5R^2+2148\,r^7R^2+208\,l^6R^3+2092\,l^4r^2R^3-$$
$$10428\,l^2r^4R^3+8364\,r^6R^3-608\,l^4r\,R^4-12320\,l^2r^3R^4+19328\,r^5R^4-1344\,l^4R^5-3456\,l^2r^2R^5+$$
$$\left.\left.25856\,r^4R^5+5632\,l^2r\,R^6+15872\,r^3R^6+3840\,l^2R^7-3328\,r^2R^7-10240\,r\,R^8-4096\,R^9\right)\right\}$$

$$\left\{X59,\ \text{ISOGONAL CONJUGATE OF } X(11),\ X65,\ \text{ORTHOCENTER OF THE INTOUCH TRIANGLE},\right.$$
$$-\left(\left(r^2\left(4\,l^4r^2-8\,l^2r^4+4\,r^6+2\,l^4r\,R-48\,l^2r^3R+46\,r^5R-68\,l^2r^2R^2+188\,r^4R^2-9\,l^2r\,R^3+\right.\right.\right.$$
$$\left.\left.\left.319\,r^3R^3+l^2R^4+184\,r^2R^4-16\,r\,R^5\right)\right)\Big/\left((2r-R)\,R\left(-l^2+r^2+5\,r\,R+4R^2\right)^2\right)\right)\Big\}$$

$$\left\{X59,\ \text{ISOGONAL CONJUGATE OF } X(11),\ X66,\ \text{ISOGONAL CONJUGATE OF } X(22),\right.$$
$$-\left(\left(l^{14}r-19\,l^{12}r^3+81\,l^{10}r^5-155\,l^8r^7+155\,l^6r^9-81\,l^4r^{11}+19\,l^2r^{13}-r^{15}-23\,l^{12}r^2R+406\,l^{10}r^4R-\right.\right.$$
$$1425\,l^8r^6R+2100\,l^6r^8R-1465\,l^4r^{10}R+438\,l^2r^{12}R-31\,r^{14}R-15\,l^{12}r\,R^2+512\,l^{10}r^3R^2-$$
$$4571\,l^8r^5R^2+11216\,l^6r^7R^2-11117\,l^4r^9R^2+4400\,l^2r^{11}R^2-425\,r^{13}R^2-l^{12}R^3+$$
$$260\,l^{10}r^2R^3-6105\,l^8r^4R^3+29848\,l^6r^6R^3-45803\,l^4r^8R^3+25188\,l^2r^{10}R^3-3387\,r^{12}R^3+$$
$$118\,l^{10}r\,R^4-3508\,l^8r^3R^4+41196\,l^6r^5R^4-110544\,l^4r^7R^4+90078\,l^2r^9R^4-17340\,r^{11}R^4+$$
$$12\,l^{10}R^5-1357\,l^8r^2R^5+28440\,l^6r^4R^5-156918\,l^4r^6R^5+207196\,l^2r^8R^5-59453\,r^{10}R^5-$$
$$560\,l^8r\,R^6+10536\,l^6r^3R^6-125160\,l^4r^5R^6+303672\,l^2r^7R^6-137928\,r^9R^6-48\,l^8R^7+$$
$$4276\,l^6r^2R^7-53228\,l^4r^4R^7+271004\,l^2r^6R^7-213364\,r^8R^7+1376\,l^6r\,R^8-16752\,l^4r^3R^8+$$
$$136000\,l^2r^5R^8-210768\,r^7R^8+64\,l^6R^9-7232\,l^4r^2R^9+39376\,l^2r^4R^9-122240\,r^6R^9-$$
$$\left.\left.1280\,l^4r\,R^{10}+13952\,l^2r^3R^{10}-37376\,r^5R^{10}+4352\,l^2r^2R^{11}-9216\,r^4R^{11}-4096\,r^3R^{12}\right)\Big/\right.$$
$$\left.\left.\left((l-r-2R)^2\,(2r-R)\,(l+r+2R)^2\left(l^2-r^2-4\,r\,R\right)^2\left(l^2-r^2-5\,r\,R-4R^2\right)^2\right)\right)\Big\}$$

$$\left\{X59,\ \text{ISOGONAL CONJUGATE OF } X(11),\ X67,\ \text{ISOGONAL CONJUGATE OF } X(23),\right.$$
$$\left(-32\,l^{10}r^3+128\,l^8r^5-192\,l^6r^7+128\,l^4r^9-32\,l^2r^{11}+l^{12}R+12\,l^{10}r^2R+513\,l^8r^4R-1624\,l^6r^6R+\right.$$
$$1659\,l^4r^8R-564\,l^2r^{10}R+3\,r^{12}R-29\,l^{10}r\,R^2+295\,l^8r^3R^2-4550\,l^6r^5R^2+8402\,l^4r^7R^2-$$
$$4189\,l^2r^9R^2+71\,r^{11}R^2-12\,l^{10}R^3+94\,l^8r^2R^3-4688\,l^6r^4R^3+20924\,l^4r^6R^3-17028\,l^2r^8R^3+$$
$$710\,r^{10}R^3+304\,l^8r\,R^4-1544\,l^6r^3R^4+26040\,l^4r^5R^4-40840\,l^2r^7R^4+3880\,r^9R^4+48\,l^8R^5-$$
$$1301\,l^6r^2R^5+14327\,l^4r^4R^5-57235\,l^2r^6R^5+12481\,r^8R^5-1040\,l^6r\,R^6+4212\,l^4r^3R^6-$$
$$42688\,l^2r^5R^6+23572\,r^7R^6-64\,l^6R^7+3456\,l^4r^2R^7-14068\,l^2r^4R^7+24224\,r^6R^7+$$
$$\left.1152\,l^4r\,R^8-3744\,l^2r^3R^8+10880\,r^5R^8-2112\,l^2r^2R^9+1280\,r^4R^9+1024\,r^3R^{10}\right)\Big/$$
$$\left.\left((2r-R)\left(-l^2+r^2+4\,r\,R\right)^2\left(-l^2+r^2+5\,r\,R+4R^2\right)^2\left(-2\,l^2+2\,r^2+8\,r\,R+9R^2\right)\right)\right\}$$

$$\left\{X59,\ \text{ISOGONAL CONJUGATE OF } X(11),\ X68,\ \text{PRASOLOV POINT},\right.$$
$$\frac{1}{(2r-R)\,(-l+r+2R)^2\,(l+r+2R)^2\,\left(-l^2+r^2+5rR+4R^2\right)^2}$$
$$\left(-l^{10}r+17l^8r^3-46l^6r^5+46l^4r^7-17l^2r^9+r^{11}+15l^8r^2R-232l^6r^4R+442l^4r^6R-248l^2r^8R+\right.$$
$$23r^{10}R+19l^8rR^2-346l^6r^3R^2+1608l^4r^5R^2-1510l^2r^7R^2+229r^9R^2-l^8R^3-210l^6r^2R^3+$$
$$2760l^4r^4R^3-4958l^2r^6R^3+1289r^8R^3-124l^6rR^4+2246l^4r^3R^4-9368l^2r^5R^4+4486r^7R^4+$$
$$12l^6R^5+973l^4r^2R^5-9978l^2r^4R^5+9893r^6R^5+360l^4rR^6-5624l^2r^3R^6+13584r^5R^6-52l^4R^7-$$
$$\left.\left.1804l^2r^2R^7+10960r^4R^7-472l^2rR^8+4752r^3R^8+96l^2R^9+1148r^2R^9+224rR^{10}-64R^{11}\right)\right\}$$

$$\left\{X59,\ \text{ISOGONAL CONJUGATE OF } X(11),\ X69,\ \text{SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},\right.$$
$$-\frac{1}{(2r-R)\,\left(-l^2+r^2+4rR\right)^2\,\left(-l^2+r^2+5rR+4R^2\right)^2}$$
$$\left(-l^{10}r-15l^8r^3+50l^6r^5-50l^4r^7+15l^2r^9+r^{11}+l^{10}R+28l^8r^2R+166l^6r^4R-400l^4r^6R+\right.$$
$$185l^2r^8R+20r^{10}R-16l^8rR^2+8l^6r^3R^2-1072l^4r^5R^2+920l^2r^7R^2+160r^9R^2-$$
$$8l^8R^3-64l^6r^2R^3-1096l^4r^4R^3+2448l^2r^6R^3+640r^8R^3+144l^6rR^4-48l^4r^3R^4+$$
$$\left.\left.3584l^2r^5R^4+1280r^7R^4+16l^6R^5-128l^4r^2R^5+2048l^2r^4R^5+1024r^6R^5-256l^4rR^6\right)\right\}$$

$$\left\{X59,\ \text{ISOGONAL CONJUGATE OF } X(11),\ X70,\ \text{ISOGONAL CONJUGATE OF } X(26),\right.$$
$$-\left(\left(l^{14}r-19l^{12}r^3+81l^{10}r^5-155l^8r^7+155l^6r^9-81l^4r^{11}+19l^2r^{13}-r^{15}-23l^{12}r^2R+\right.\right.$$
$$406l^{10}r^4R-1425l^8r^6R+2100l^6r^8R-1465l^4r^{10}R+438l^2r^{12}R-31r^{14}R-21l^{12}rR^2+$$
$$588l^{10}r^3R^2-4821l^8r^5R^2+11576l^6r^7R^2-11367l^4r^9R^2+4476l^2r^{11}R^2-431r^{13}R^2+$$
$$386l^{10}r^2R^3-7482l^8r^4R^3+33372l^6r^6R^3-49388l^4r^8R^3+26658l^2r^{10}R^3-3546r^{12}R^3+$$
$$189l^{10}rR^4-5717l^8r^3R^4+53870l^6r^5R^4-131390l^4r^7R^4+102229l^2r^9R^4-19181r^{11}R^4-$$
$$l^{10}R^5-2682l^8r^2R^5+49018l^6r^4R^5-219764l^4r^6R^5+263015l^2r^8R^5-71666r^{10}R^5-$$
$$919l^8rR^6+25858l^6r^3R^6-229304l^4r^5R^6+458718l^2r^7R^6-189073r^9R^6+14l^8R^7+$$
$$9710l^6r^2R^7-146366l^4r^4R^7+536338l^2r^6R^7-353776r^8R^7+2524l^6rR^8-59592l^4r^3R^8+$$
$$409396l^2r^5R^8-464840r^7R^8-73l^6R^9-18851l^4r^2R^9+199877l^2r^4R^9-419153r^6R^9-$$
$$3774l^4rR^{10}+66708l^2r^3R^{10}-251438r^5R^{10}+172l^4R^{11}+18060l^2r^2R^{11}-99264r^4R^{11}+$$
$$\left.\left.2736l^2rR^{12}-28304r^3R^{12}-176l^2R^{13}-6524r^2R^{13}-736rR^{14}+64R^{15}\right)\Big/\left((2r-R)\right.\right.$$
$$\left.\left.\left(l^2-r^2-5rR-4R^2\right)^2\left(l^4-2l^2r^2+r^4-8l^2rR+8r^3R-6l^2R^2+22r^2R^2+24rR^3+7R^4\right)^2\right)\right)\right\}$$

$$\left\{X59,\ \text{ISOGONAL CONJUGATE OF } X(11),\ X71,\ \text{ISOGONAL CONJUGATE OF } X(27),\right.$$
$$\frac{1}{(2r-R)\,\left(-l^2+r^2+5rR+4R^2\right)^2\,\left(l^2+r^2+6rR+8R^2\right)^2}$$
$$R^2\left(18l^8r-66l^6r^3+38l^4r^5-6l^2r^7-12l^8R-167l^6r^2R+327l^4r^4R-\right.$$
$$93l^2r^6R+r^8R-24l^6rR^2+904l^4r^3R^2-584l^2r^5R^2+24r^7R^2+80l^6R^3+$$
$$828l^4r^2R^3-1920l^2r^4R^3+244r^6R^3+32l^4rR^4-3568l^2r^3R^4+1360r^5R^4-64l^4R^5-$$
$$\left.\left.3728l^2r^2R^5+4480r^4R^5-1920l^2rR^6+8704r^3R^6-256l^2R^7+9216r^2R^7+4096rR^8\right)\right\}$$

$$\left\{X59,\ \text{ISOGONAL CONJUGATE OF } X(11),\ X72,\ \text{ISOGONAL CONJUGATE OF } X(28),\right.$$
$$-\left(\left(-2l^6r^2+6l^4r^4-6l^2r^6+2r^8+28l^4r^3R-56l^2r^5R+28r^7R+l^6R^2+26l^4r^2R^2-181l^2r^4R^2+\right.\right.$$
$$\left.\left.154r^6R^2-24l^4rR^3-210l^2r^3R^3+418r^5R^3-8l^4R^4+20l^2r^2R^4+549r^4R^4+160l^2rR^5+\right.\right.$$
$$\left.\left.\left.184r^3R^5+16l^2R^6-304r^2R^6-256rR^7\right)\Big/\left((2r-R)\,R\left(-l^2+r^2+5rR+4R^2\right)^2\right)\right)\right\}$$

$$\left\{X59,\ \text{ISOGONAL CONJUGATE OF } X(11),\ X73,\right.$$
$$\text{CROSSPOINT OF INCENTER AND CIRCUMCENTER},\ \left(r^2R^2\left(-6l^6r+38l^4r^3-66l^2r^5+18r^7-\right.\right.$$
$$l^6R+105l^4r^2R-379l^2r^4R+219r^6R+68l^4rR^2-792l^2r^3R^2+996r^5R^2+8l^4R^3-$$
$$\left.\left.712l^2r^2R^3+2128r^4R^3-240l^2rR^4+2256r^3R^4-16l^2R^5+1152r^2R^5+256rR^6\right)\right)\Big/$$
$$\left.\left((2r-R)\left(l^2+r^2-2rR-4R^2\right)^2\left(-l^2+r^2+5rR+4R^2\right)^2\right)\right\}$$

$$\{X59,\ \text{ISOGONAL CONJUGATE OF } X(11),\ X74,\ \text{ISOGONAL CONJUGATE OF EULER INFINITY POINT},$$
$$\left(R^2\left(-12 l^6 r+52 l^4 r^3-52 l^2 r^5+12 r^7+9 l^6 R+103 l^4 r^2 R-333 l^2 r^4 R+149 r^6 R+30 l^4 r R^2-660 l^2 r^3 R^2+686 r^5 R^2-108 l^4 R^3-340 l^2 r^2 R^3+1416 r^4 R^3+336 l^2 r R^4+1136 r^3 R^4+432 l^2 R^5-292 r^2 R^5-1056 r R^6-576 R^7\right)\right)\Big/\left((2 r-R)\left(-l^2+r^2+5 r R+4 R^2\right)^2\left(-2 l^2+2 r^2+8 r R+9 R^2\right)\right)\}$$

$$\{X59,\ \text{ISOGONAL CONJUGATE OF } X(11),\ X75,$$
$$\text{ISOTOMIC CONJUGATE OF INCENTER},\ -\frac{1}{(2 r-R)\left(l^2+r^2+4 r R\right)^2\left(-l^2+r^2+5 r R+4 R^2\right)^2}$$
$$\left(-l^{10} r-3 l^8 r^3-2 l^6 r^5+2 l^4 r^7+3 l^2 r^9+r^{11}+l^{10} R+32 l^8 r^2 R-66 l^6 r^4 R+116 l^4 r^6 R-23 l^2 r^8 R+20 r^{10} R-16 l^8 r R^2-200 l^6 r^3 R^2+704 l^4 r^5 R^2-488 l^2 r^7 R^2+160 r^9 R^2-8 l^8 R^3-80 l^6 r^2 R^3+1224 l^4 r^4 R^3-2160 l^2 r^6 R^3+640 r^8 R^3+144 l^6 r R^4+528 l^4 r^3 R^4-3584 l^2 r^5 R^4+1280 r^7 R^4+16 l^6 R^5-128 l^4 r^2 R^5-2048 l^2 r^4 R^5+1024 r^6 R^5-256 l^4 r R^6\right)\}$$

$$\{X59,\ \text{ISOGONAL CONJUGATE OF } X(11),\ X76,\ \text{3rd BROCARD POINT},$$
$$-\left(\left(-l^{14} r-5 l^{12} r^3-9 l^{10} r^5-5 l^8 r^7+5 l^6 r^9+9 l^4 r^{11}+5 l^2 r^{13}+r^{15}+l^{14} R+34 l^{12} r^2 R+87 l^{10} r^4 R+56 l^8 r^6 R-l^6 r^8 R+42 l^4 r^{10} R+73 l^2 r^{12} R+28 r^{14} R-24 l^{12} r R^2-280 l^{10} r^3 R^2-800 l^8 r^5 R^2+912 l^6 r^7 R^2-536 l^4 r^9 R^2+392 l^2 r^{11} R^2+336 r^{13} R^2-8 l^{12} R^3+96 l^{10} r^2 R^3+336 l^8 r^4 R^3+5152 l^6 r^6 R^3-5448 l^4 r^8 R^3+1088 l^2 r^{10} R^3+2240 r^{12} R^3+208 l^{10} r R^4+208 l^8 r^3 R^4+6192 l^6 r^5 R^4-19408 l^4 r^7 R^4+3328 l^2 r^9 R^4+8960 r^{11} R^4+16 l^{10} R^5-1440 l^8 r^2 R^5-112 l^6 r^4 R^5-29376 l^4 r^6 R^5+13568 l^2 r^8 R^5+21504 r^{10} R^5-384 l^8 r R^6+3456 l^6 r^3 R^6-12288 l^4 r^5 R^6+30720 l^2 r^7 R^6+28672 r^9 R^6+2304 l^6 r^2 R^7-1024 l^4 r^4 R^7+24576 l^2 r^6 R^7+16384 r^8 R^7-4096 l^4 r^3 R^8\right)\Big/\left((2 r-R)\left(-l^2+r^2+5 r R+4 R^2\right)^2\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)^2\right)\right)\}$$

$$\{X59,\ \text{ISOGONAL CONJUGATE OF } X(11),\ X77,\ \text{ISOGONAL CONJUGATE OF } X(33),$$
$$-\left(\left(r^2 R\left(l^8-5 l^6 r^2+7 l^4 r^4-3 l^2 r^6-22 l^6 r R+65 l^4 r^3 R-40 l^2 r^5 R+r^7 R-8 l^6 R^2+185 l^4 r^2 R^2-223 l^2 r^4 R^2+20 r^6 R^2+152 l^4 r R^3-648 l^2 r^3 R^3+160 r^5 R^3+16 l^4 R^4-880 l^2 r^2 R^4+640 r^4 R^4-256 l^2 r R^5+1280 r^3 R^5+1024 r^2 R^6\right)\right)\Big/\left((2 r-R)\left(-l^2+r R+4 R^2\right)^2\left(-l^2+r^2+5 r R+4 R^2\right)^2\right)\right)\}$$

$$\{X59,\ \text{ISOGONAL CONJUGATE OF } X(11),\ X78,\ \text{ISOGONAL CONJUGATE OF } X(34),$$
$$-\left(\left(R\left(-l^6 r^2+5 l^4 r^4-7 l^2 r^6+3 r^8-l^6 r R+14 l^4 r^3 R-45 l^2 r^5 R+36 r^7 R+l^6 R^2+36 l^4 r^2 R^2-152 l^2 r^4 R^2+169 r^6 R^2-16 l^4 r R^3-196 l^2 r^3 R^3+412 r^5 R^3-8 l^4 R^4-80 l^2 r^2 R^4+560 r^4 R^4+144 l^2 r R^5+304 r^3 R^5+16 l^2 R^6-128 r^2 R^6-256 r R^7\right)\right)\Big/\left((r-R)^2(2 r-R)\left(-l^2+r^2+5 r R+4 R^2\right)^2\right)\right)\}$$

$$\{X59,\ \text{ISOGONAL CONJUGATE OF } X(11),\ X79,\ \text{ISOGONAL CONJUGATE OF } X(35),$$
$$\left(r^2\left(-20 l^6 r+60 l^4 r^3-44 l^2 r^5+4 r^7+2 l^6 R+246 l^4 r^2 R-394 l^2 r^4 R+66 r^6 R+178 l^4 r R^2-1212 l^2 r^3 R^2+434 r^5 R^2-28 l^4 R^3-1440 l^2 r^2 R^3+1436 r^4 R^3-462 l^2 r R^4+2466 r^3 R^4+107 l^2 R^5+1991 r^2 R^5+472 r R^6-144 R^7\right)\right)\Big/\left((2 r-R)(2 r+3 R)^2\left(-l^2+r^2+5 r R+4 R^2\right)^2\right)\}$$

$$\{X59,\ \text{ISOGONAL CONJUGATE OF } X(11),\ X80,\ \text{REFLECTION OF INCENTER IN FEUERBACH POINT},$$
$$\left(r^2\left(-2 l^6+22 l^4 r^2-30 l^2 r^4+10 r^6+22 l^4 r R-180 l^2 r^3 R+118 r^5 R+24 l^4 R^2-288 l^2 r^2 R^2+504 r^4 R^2-156 l^2 r R^3+940 r^3 R^3-99 l^2 R^4+745 r^2 R^4+264 r R^5+144 R^6\right)\right)\Big/\left((2 r-R)^2\left(-l^2+r^2+5 r R+4 R^2\right)^2\right)\}$$

$$\{X59,\ \text{ISOGONAL CONJUGATE OF } X(11),\ X81,\ \text{CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},$$
$$-\left(\left(r^2 R\left(l^8-2 l^4 r^4+r^8-10 l^6 r R-18 l^4 r^3 R+10 l^2 r^5 R+18 r^7 R-4 l^6 R^2-27 l^4 r^2 R^2+86 l^2 r^4 R^2+125 r^6 R^2-20 l^4 r R^3+340 l^2 r^3 R^3+408 r^5 R^3+424 l^2 r^2 R^4+572 r^4 R^4+176 l^2 r R^5+80 r^3 R^5+16 l^2 R^6-448 r^2 R^6-256 r R^7\right)\right)\Big/\left((2 r-R)\left(-l^2+r^2+r R\right)^2\left(-l^2+r^2+5 r R+4 R^2\right)^2\right)\right)\}$$

$$\{X59,\ \text{ISOGONAL CONJUGATE OF } X(11),\ X82,\ \text{ISOGONAL CONJUGATE OF } X(38),$$
$$-\Big(\big(r^2 R\,\big(l^{12}+2 l^{10} r^2-l^8 r^4-4 l^6 r^6-l^4 r^8+2 l^2 r^{10}+r^{12}-30 l^{10} r R-18 l^8 r^3 R+20 l^6 r^5 R-$$
$$4 l^4 r^7 R+10 l^2 r^9 R+22 r^{11} R-4 l^{10} R^2+301 l^8 r^2 R^2-164 l^6 r^4 R^2+222 l^4 r^6 R^2-$$
$$144 l^2 r^8 R^2+189 r^{10} R^2+68 l^8 r R^3-1180 l^6 r^3 R^3+1428 l^4 r^5 R^3-1204 l^2 r^7 R^3+$$
$$728 r^9 R^3+1184 l^4 r^4 R^4-1792 l^2 r^6 R^4+544 r^8 R^4+144 l^6 r R^5-4592 l^4 r^3 R^5+$$
$$7040 l^2 r^5 R^5-5696 r^7 R^5+16 l^6 R^6-2880 l^4 r^2 R^6+22848 l^2 r^4 R^6-22272 r^6 R^6-$$
$$512 l^4 r R^7+17920 l^2 r^3 R^7-36864 r^5 R^7+5120 l^2 r^2 R^8-32768 r^4 R^8-16384 r^3 R^9\big)\big)\,/$$
$$\big((2 r-R)\,\big(-l^2+r^2+5 r R+4 R^2\big)^2\,\big(l^4-4 l^2 r^2+3 r^4-9 l^2 r R+19 r^3 R+28 r^2 R^2\big)^2\big)\Big)\}$$

$$\{X59,\ \text{ISOGONAL CONJUGATE OF } X(11),\ X83,\ \text{CEVAPOINT OF CENTROID AND SYMMEDIAN POINT},$$
$$\big(-3 l^{14} r+l^{12} r^3+21 l^{10} r^5+17 l^8 r^7-17 l^6 r^9-21 l^4 r^{11}-l^2 r^{13}+3 r^{15}-l^{14} R+90 l^{12} r^2 R-95 l^{10} r^4 R-$$
$$180 l^8 r^6 R+17 l^6 r^8 R-166 l^4 r^{10} R-81 l^2 r^{12} R+96 r^{14} R+64 l^{12} r R^2-1088 l^{10} r^3 R^2+1728 l^8 r^5 R^2-$$
$$1408 l^6 r^7 R^2+960 l^4 r^9 R^2-1600 l^2 r^{11} R^2+1344 r^{13} R^2+8 l^{12} R^3-1264 l^{10} r^2 R^3+8000 l^8 r^4 R^3-$$
$$14528 l^6 r^6 R^3+16104 l^4 r^8 R^3-14864 l^2 r^{10} R^3+10768 r^{12} R^3-368 l^{10} r R^4+11856 l^8 r^3 R^4-$$
$$45584 l^6 r^5 R^4+77296 l^4 r^7 R^4-77440 l^2 r^9 R^4+54208 r^{11} R^4-16 l^{10} R^5+5984 l^8 r^2 R^5-65872 l^6 r^4 R^5+$$
$$184576 l^4 r^6 R^5-241216 l^2 r^8 R^5+177408 r^{10} R^5+640 l^8 r R^6-46464 l^6 r^3 R^6+246528 l^4 r^5 R^6-$$
$$459776 l^2 r^7 R^6+379904 r^9 R^6-9472 l^6 r^2 R^7+192512 l^4 r^4 R^7-550912 l^2 r^6 R^7+536576 r^8 R^7+$$
$$65536 l^4 r^3 R^8-442368 l^2 r^5 R^8+540672 r^7 R^8-212992 l^2 r^4 R^9+458752 r^6 R^9+262144 r^5 R^{10}\big)\,/$$
$$\big((2 r-R)\,\big(-l^2+r^2+5 r R+4 R^2\big)^2\,\big(5 l^4-6 l^2 r^2+5 r^4-40 l^2 r R+40 r^3 R+80 r^2 R^2\big)^2\big)\}$$

$$\{X59,\ \text{ISOGONAL CONJUGATE OF } X(11),\ X84,\ \text{ISOGONAL CONJUGATE OF } X(40),$$
$$\big(R\,\big(6 l^6 r^2-8 l^4 r^4+2 l^2 r^6-12 l^6 r R-44 l^4 r^3 R+32 l^2 r^5 R+4 l^6 R^2+80 l^4 r^2 R^2+93 l^2 r^4 R^2+$$
$$5 r^6 R^2+88 l^4 r R^3-276 l^2 r^3 R^3+96 r^5 R^3-48 l^4 R^4-668 l^2 r^2 R^4+592 r^4 R^4-128 l^2 r R^5+$$
$$1408 r^3 R^5+192 l^2 R^6+1008 r^2 R^6-128 r R^7-256 R^8\big)\big)\,/\,\big(r^2\,(2 r-R)\,\big(-l^2+r^2+5 r R+4 R^2\big)^2\big)\}$$

$$\{X59,\ \text{ISOGONAL CONJUGATE OF } X(11),\ X85,\ \text{ISOTOMIC CONJUGATE OF } X(9),$$
$$-\frac{1}{(2 r-R)\,\big(-l^2+r^2+5 r R+4 R^2\big)^2\,\big(l^2+r^2+8 r R+16 R^2\big)^2}$$
$$\big(-l^{10} r-3 l^8 r^3-2 l^6 r^5+2 l^4 r^7+3 l^2 r^9+r^{11}+l^{10} R+56 l^8 r^2 R-114 l^6 r^4 R+$$
$$84 l^4 r^6 R+25 l^2 r^8 R+28 r^{10} R-8 l^8 r R^2-544 l^6 r^3 R^2+808 l^4 r^5 R^2-112 l^2 r^7 R^2+$$
$$336 r^9 R^2-8 l^8 R^3-480 l^6 r^2 R^3+3016 l^4 r^4 R^3-1952 l^2 r^6 R^3+2240 r^8 R^3+$$
$$112 l^6 r R^4+4272 l^4 r^3 R^4-8192 l^2 r^5 R^4+8960 r^7 R^4+16 l^6 R^5+1024 l^4 r^2 R^5-$$
$$14080 l^2 r^4 R^5+21504 r^6 R^5-256 l^4 r R^6-8192 l^2 r^3 R^6+28672 r^5 R^6+16384 r^4 R^7\big)\}$$

$$\{X59,\ \text{ISOGONAL CONJUGATE OF } X(11),\ X86,$$
$$\text{CEVAPOINT OF INCENTER AND CENTROID},\ -\frac{1}{(2 r-R)\,\big(5 l^2+r^2+4 r R\big)^2\,\big(-l^2+r^2+5 r R+4 R^2\big)^2}$$
$$\big(3 l^{10} r-11 l^8 r^3-18 l^6 r^5+10 l^4 r^7+15 l^2 r^9+r^{11}+l^{10} R-28 l^8 r^2 R-54 l^6 r^4 R+128 l^4 r^6 R+$$
$$173 l^2 r^8 R+20 r^{10} R-40 l^8 r R^2+104 l^6 r^3 R^2+584 l^4 r^5 R^2+728 l^2 r^7 R^2+160 r^9 R^2-$$
$$8 l^8 R^3+144 l^6 r^2 R^3+872 l^4 r^4 R^3+1296 l^2 r^6 R^3+640 r^8 R^3+176 l^6 r R^4-240 l^4 r^3 R^4+$$
$$512 l^2 r^5 R^4+1280 r^7 R^4+16 l^6 R^5-128 l^4 r^2 R^5-1024 l^2 r^4 R^5+1024 r^6 R^5-256 l^4 r R^6\big)\}$$

$$\{X59,\ \text{ISOGONAL CONJUGATE OF } X(11),\ X87,\ X(2)\text{-CROSS CONJUGATE OF } X(1),$$
$$\big(r^2 R\,\big(2 l^{12}-14 l^8 r^4-16 l^6 r^6+6 l^4 r^8+16 l^2 r^{10}+6 r^{12}-64 l^{10} r R+48 l^8 r^3 R+128 l^6 r^5 R-32 l^4 r^7 R+$$
$$64 l^2 r^9 R+112 r^{11} R-29 l^{10} R^2+683 l^8 r^2 R^2+174 l^6 r^4 R^2-1050 l^4 r^6 R^2+255 l^2 r^8 R^2+$$
$$767 r^{10} R^2+840 l^8 r R^3-4160 l^6 r^3 R^3-2800 l^4 r^5 R^3+4096 l^2 r^7 R^3+1896 r^9 R^3+144 l^8 R^4-$$
$$7616 l^6 r^2 R^4+9248 l^4 r^4 R^4+14272 l^2 r^6 R^4-2736 r^8 R^4-3712 l^6 r R^5+35072 l^4 r^3 R^5-$$
$$4224 l^2 r^5 R^5-24576 r^7 R^5-256 l^6 R^6+26112 l^4 r^2 R^6-64512 l^2 r^4 R^6-42752 r^6 R^6+$$
$$6144 l^4 r R^7-73728 l^2 r^3 R^7+2048 r^5 R^7-36864 l^2 r^2 R^8+77824 r^4 R^8+65536 r^3 R^9\big)\big)\,/$$
$$\big((2 r-R)\,\big(-l^2+r^2+5 r R+4 R^2\big)^2\,\big(l^4+2 l^2 r^2+r^4-20 l^2 r R+12 r^3 R+32 r^2 R^2\big)^2\big)\}$$

$$\Big\{X59,\ \text{ISOGONAL CONJUGATE OF } X(11),\ X88,\ \text{ISOGONAL CONJUGATE OF } X(44),\ -\frac{1}{(2r-R)\left(l^2+3r^2-15rR\right)^2\left(-l^2+r^2+5rR+4R^2\right)^2}$$
$$r^2R\left(-l^8+4l^6r^2+102l^4r^4-132l^2r^6+27r^8+20l^6rR-152l^4r^3R-636l^2r^5R+432r^7R+16l^6R^2-123l^4r^2R^2-1062l^2r^4R^2+2421r^6R^2-300l^4rR^3+2532l^2r^3R^3+4896r^5R^3-80l^4R^4+840l^2r^2R^4-900r^4R^4+1296l^2rR^5-9648r^3R^5+144l^2R^6+576r^2R^6-2304rR^7\right)\Big\}$$

$$\Big\{X59,\ \text{ISOGONAL CONJUGATE OF } X(11),\ X89,\ \text{ISOGONAL CONJUGATE OF } X(45),\ -\frac{1}{(2r-R)\left(-2l^2+6r^2-3rR\right)^2\left(-l^2+r^2+5rR+4R^2\right)^2}$$
$$r^2R\left(2l^8+28l^6r^2+72l^4r^4-156l^2r^6+54r^8+11l^6rR-137l^4r^3R-1155l^2r^5R+945r^7R+l^6R^2-708l^4r^2R^2-3339l^2r^4R^2+6282r^6R^2-420l^4rR^3+924l^2r^3R^3+19152r^5R^3-56l^4R^4+3876l^2r^2R^4+24156r^4R^4+1728l^2rR^5+4176r^3R^5+144l^2R^6-6336r^2R^6-2304rR^7\right)\Big\}$$

$$\Big\{X59,\ \text{ISOGONAL CONJUGATE OF } X(11),\ X90,\ X(3)\text{-CROSS CONJUGATE OF } X(1),$$
$$\left(r^2R\left(6l^6r^2-8l^4r^4+2l^2r^6-8l^6rR-44l^4r^3R+28l^2r^5R+2l^6R^2+16l^4r^2R^2+107l^2r^4R^2+r^6R^2+72l^4rR^3+30l^2r^3R^3+18r^5R^3-24l^4R^4-288l^2r^2R^4+120r^4R^4-210l^2rR^5+370r^3R^5+99l^2R^6+519r^2R^6+216rR^7-144R^8\right)\right)\Big/\left((2r-R)\left(r^2+2rR-R^2\right)^2\left(-l^2+r^2+5rR+4R^2\right)^2\right)\Big\}$$

$$\Big\{X59,\ \text{ISOGONAL CONJUGATE OF } X(11),\ X91,\ \text{ISOGONAL CONJUGATE OF } X(47),$$
$$-\Big(\Big(r^2\left(-l^{10}r-3l^8r^3-2l^6r^5+2l^4r^7+3l^2r^9+r^{11}+41l^8r^2R-60l^6r^4R+102l^4r^6R-28l^2r^8R+25r^{10}R+11l^8rR^2-364l^6r^3R^2+786l^4r^5R^2-620l^2r^7R^2+267r^9R^2-510l^6r^2R^3+2478l^4r^4R^3-3482l^2r^6R^3+1594r^8R^3-12l^6rR^4+3696l^4r^3R^4-9388l^2r^5R^4+5848r^7R^4-3l^6R^5+2083l^4r^2R^5-13833l^2r^4R^5+13665r^6R^5-188l^4rR^6-10840l^2r^3R^6+20388r^5R^6+28l^4R^7-3176l^2r^2R^7+18780r^4R^7+592l^2rR^8+9472r^3R^8-76l^2R^9+1476r^2R^9-480rR^{10}+64R^{11}\right)\Big)\Big/\left((2r-R)\left(-l^2+r^2+5rR+4R^2\right)^2\left(l^2r+r^3-l^2R+3r^2R+2rR^2+2R^3\right)^2\right)\Big)\Big\}$$

$$\Big\{X59,\ \text{ISOGONAL CONJUGATE OF } X(11),\ X92,\ \text{CEVAPOINT OF INCENTER AND CLAWSON POINT},\ -\frac{1}{(2r-R)\left(l^2+r^2-4R^2\right)^2\left(-l^2+r^2+5rR+4R^2\right)^2}$$
$$\left(-l^{10}r-3l^8r^3-2l^6r^5+2l^4r^7+3l^2r^9+r^{11}+l^{10}R+44l^8r^2R-58l^6r^4R+100l^4r^6R-31l^2r^8R+24r^{10}R-16l^8rR^2-396l^6r^3R^2+788l^4r^5R^2-628l^2r^7R^2+252r^9R^2-16l^8R^3-312l^6r^2R^3+2520l^4r^4R^3-3480l^2r^6R^3+1512r^8R^3+352l^6rR^4+3072l^4r^3R^4-9280l^2r^5R^4+5664r^7R^4+96l^6R^5-64l^4r^2R^5-12576l^2r^4R^5+13520r^6R^5-2048l^4rR^6-6080l^2r^3R^6+19840r^5R^6-256l^4R^7+4224l^2r^2R^7+15296r^4R^7+4864l^2rR^8+1280r^3R^8+256l^2R^9-7168r^2R^9-4096rR^{10}\right)\Big\}$$

$$\Big\{X59,\ \text{ISOGONAL CONJUGATE OF } X(11),\ X93,\ \text{ISOGONAL CONJUGATE OF } X(49),$$
$$\Big(l^{14}r+5l^{12}r^3+9l^{10}r^5+5l^8r^7-5l^6r^9-9l^4r^{11}-5l^2r^{13}-r^{15}-l^{14}R-34l^{12}r^2R-87l^{10}r^4R-56l^8r^6R+l^6r^8R-42l^4r^{10}R-73l^2r^{12}R-28r^{14}R+18l^{12}rR^2+172l^{10}r^3R^2+806l^8r^5R^2-696l^6r^7R^2+542l^4r^9R^2-500l^2r^{11}R^2-342r^{13}R^2+18l^{12}R^3+114l^{10}r^2R^3+1424l^8r^4R^3-6732l^6r^6R^3+6882l^4r^8R^3-2790l^2r^{10}R^3-2372r^{12}R^3-452l^{10}rR^4+4l^8r^3R^4-19352l^6r^5R^4+34872l^4r^7R^4-15332l^2r^9R^4-10108r^{11}R^4-128l^{10}R^5+2166l^8r^2R^5-20320l^6r^4R^5+94172l^4r^6R^5-65744l^2r^8R^5-26114r^{10}R^5+3232l^8rR^6-13084l^6r^3R^6+137412l^4r^5R^6-185124l^2r^7R^6-33444r^9R^6+450l^8R^7-16458l^6r^2R^7+106802l^4r^4R^7-322934l^2r^6R^7+14412r^8R^7-10837l^6rR^8+60163l^4r^3R^8-336011l^2r^5R^8+136637r^7R^8-791l^6R^9+43116l^4r^2R^9-205259l^2r^4R^9+245346r^6R^9+18374l^4rR^{10}-91712l^2r^3R^{10}+227482r^5R^{10}+596l^4R^{11}-46536l^2r^2R^{11}+120620r^4R^{11}-14912l^2rR^{12}+44704r^3R^{12}-80l^2R^{13}+17596r^2R^{13}+4576rR^{14}-64R^{15}\Big)\Big/\left((2r-R)\left(l^2-r^2-5rR-4R^2\right)^2\left(l^4+2l^2r^2+r^4-8l^2rR+8r^3R-8l^2R^2+24r^2R^2+32rR^3+13R^4\right)^2\right)\Big\}$$

$$\{X59,\ \text{ISOGONAL CONJUGATE OF } X(11),\ X94,\ \text{ISOGONAL CONJUGATE OF } X(50),$$
$$\big(l^{14} r + 5 l^{12} r^3 + 9 l^{10} r^5 + 5 l^8 r^7 - 5 l^6 r^9 - 9 l^4 r^{11} - 5 l^2 r^{13} - r^{15} - l^{14} R - 34 l^{12} r^2 R - 87 l^{10} r^4 R -$$
$$56 l^8 r^6 R + l^6 r^8 R - 42 l^4 r^{10} R - 73 l^2 r^{12} R - 28 r^{14} R + 18 l^{12} r R^2 + 172 l^{10} r^3 R^2 + 806 l^8 r^5 R^2 -$$
$$696 l^6 r^7 R^2 + 542 l^4 r^9 R^2 - 500 l^2 r^{11} R^2 - 342 r^{13} R^2 + 20 l^{12} R^3 + 114 l^{10} r^2 R^3 + 1410 l^8 r^4 R^3 -$$
$$6748 l^6 r^6 R^3 + 6888 l^4 r^8 R^3 - 2774 l^2 r^{10} R^3 - 2366 r^{12} R^3 - 508 l^{10} r R^4 + 80 l^8 r^3 R^4 - 19224 l^6 r^5 R^4 +$$
$$34816 l^4 r^7 R^4 - 15244 l^2 r^9 R^4 - 9968 r^{11} R^4 - 166 l^{10} R^5 + 2658 l^8 r^2 R^5 - 20948 l^6 r^4 R^5 + 94236 l^4 r^6 R^5 -$$
$$66182 l^2 r^8 R^5 - 24702 r^{10} R^5 + 4194 l^8 r R^6 - 16212 l^6 r^3 R^6 + 140688 l^4 r^5 R^6 - 190428 l^2 r^7 R^6 -$$
$$25378 r^9 R^6 + 732 l^8 R^7 - 23502 l^6 r^2 R^7 + 120634 l^4 r^4 R^7 - 343794 l^2 r^6 R^7 + 43178 r^8 R^7 - 17157 l^6 r R^8 +$$
$$88615 l^4 r^3 R^8 - 382707 l^2 r^5 R^8 + 203457 r^7 R^8 - 1809 l^6 R^9 + 78576 l^4 r^2 R^9 - 277893 l^2 r^4 R^9 +$$
$$349002 r^6 R^9 + 38124 l^4 r R^{10} - 179628 l^2 r^3 R^{10} + 340344 r^5 R^{10} + 2376 l^4 R^{11} - 120564 l^2 r^2 R^{11} +$$
$$220068 r^4 R^{11} - 44064 l^2 r R^{12} + 127152 r^3 R^{12} - 1296 l^2 R^{13} + 70848 r^2 R^{13} + 20736 r R^{14}\big) \big/ \big((2 r - R)$$
$$\left(l^2 - r^2 - 5 r R - 4 R^2\right)^2 \left(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 12 l^2 R^2 + 28 r^2 R^2 + 48 r R^3 + 27 R^4\right)^2\big)\}$$

$$\{X59,\ \text{ISOGONAL CONJUGATE OF } X(11),\ X95,\ \text{CEVAPOINT OF CENTROID AND CIRCUMCENTER},$$
$$\big(l^{14} r + 21 l^{12} r^3 + 57 l^{10} r^5 + 37 l^8 r^7 - 37 l^6 r^9 - 57 l^4 r^{11} - 21 l^2 r^{13} - r^{15} - l^{14} R - 50 l^{12} r^2 R - 471 l^{10} r^4 R -$$
$$408 l^8 r^6 R + 65 l^6 r^8 R - 314 l^4 r^{10} R - 393 l^2 r^{12} R - 28 r^{14} R + 16 l^{12} r R^2 + 376 l^{10} r^3 R^2 +$$
$$2792 l^8 r^5 R^2 - 2000 l^6 r^7 R^2 + 992 l^4 r^9 R^2 - 3112 l^2 r^{11} R^2 - 344 r^{13} R^2 + 16 l^{12} R^3 + 344 l^{10} r^2 R^3 +$$
$$2176 l^8 r^4 R^3 - 7664 l^6 r^6 R^3 + 11824 l^4 r^8 R^3 - 13864 l^2 r^{10} R^3 - 2432 r^{12} R^3 - 352 l^{10} r R^4 -$$
$$3968 l^8 r^3 R^4 - 24496 l^6 r^5 R^4 + 40464 l^4 r^7 R^4 - 40176 l^2 r^9 R^4 - 10896 r^{11} R^4 - 96 l^{10} R^5 +$$
$$288 l^8 r^2 R^5 - 3376 l^6 r^4 R^5 + 79232 l^4 r^6 R^5 - 86544 l^2 r^8 R^5 - 32064 r^{10} R^5 + 2048 l^8 r R^6 +$$
$$9344 l^6 r^3 R^6 + 88576 l^4 r^5 R^6 - 149376 l^2 r^7 R^6 - 61952 r^9 R^6 + 256 l^8 R^7 - 6016 l^6 r^2 R^7 +$$
$$16000 l^4 r^4 R^7 - 186624 l^2 r^6 R^7 - 75776 r^8 R^7 - 4864 l^6 r R^8 - 3328 l^4 r^3 R^8 - 131072 l^2 r^5 R^8 -$$
$$53248 r^7 R^8 - 256 l^6 R^9 + 10240 l^4 r^2 R^9 - 32768 l^2 r^4 R^9 - 16384 r^6 R^9 + 4096 l^4 r R^{10}\big) \big/$$
$$\big((2 r - R) \left(l^2 - r^2 - 5 r R - 4 R^2\right)^2 \left(l^4 + 18 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 4 l^2 R^2 + 20 r^2 R^2 + 16 r R^3\right)^2\big)\}$$

$$\{X59,\ \text{ISOGONAL CONJUGATE OF } X(11),\ X96,\ \text{ISOGONAL CONJUGATE OF } X(52),$$
$$-\big(\big(l^{14} r - 11 l^{12} r^3 - 39 l^{10} r^5 - 27 l^8 r^7 + 27 l^6 r^9 + 39 l^4 r^{11} + 11 l^2 r^{13} - r^{15} - l^{14} R - 18 l^{12} r^2 R +$$
$$297 l^{10} r^4 R + 296 l^8 r^6 R - 63 l^6 r^8 R + 230 l^4 r^{10} R + 247 l^2 r^{12} R - 28 r^{14} R + 6 l^{12} r R^2 +$$
$$332 l^{10} r^3 R^2 - 2414 l^8 r^5 R^2 + 1480 l^6 r^7 R^2 - 1142 l^4 r^9 R^2 + 2476 l^2 r^{11} R^2 - 354 r^{13} R^2 +$$
$$20 l^{12} R^3 + 20 l^{10} r^2 R^3 - 5048 l^8 r^4 R^3 + 12072 l^6 r^6 R^3 - 14620 l^4 r^8 R^3 + 14724 l^2 r^{10} R^3 -$$
$$2688 r^{12} R^3 - 272 l^{10} r R^4 - 1848 l^8 r^3 R^4 + 34960 l^6 r^5 R^4 - 59968 l^4 r^7 R^4 + 58176 l^2 r^9 R^4 -$$
$$13768 r^{11} R^4 - 168 l^{10} R^5 + 1892 l^8 r^2 R^5 + 29744 l^6 r^4 R^5 - 134664 l^4 r^6 R^5 + 161080 l^2 r^8 R^5 -$$
$$50588 r^{10} R^5 + 2272 l^8 r R^6 - 976 l^6 r^3 R^6 - 165840 l^4 r^5 R^6 + 315728 l^2 r^7 R^6 - 137616 r^9 R^6 +$$
$$768 l^8 R^7 - 14352 l^6 r^2 R^7 - 74000 l^4 r^4 R^7 + 418896 l^2 r^6 R^7 - 278576 r^8 R^7 - 8912 l^6 r R^8 +$$
$$29648 l^4 r^3 R^8 + 324048 l^2 r^5 R^8 - 408912 r^7 R^8 - 2064 l^6 R^9 + 43968 l^4 r^2 R^9 + 74864 l^2 r^4 R^9 -$$
$$405408 r^6 R^9 + 18592 l^4 r R^{10} - 73472 l^2 r^3 R^{10} - 226336 r^5 R^{10} + 3264 l^4 R^{11} - 62336 l^2 r^2 R^{11} -$$
$$19392 r^4 R^{11} - 19968 l^2 r R^{12} + 55808 r^3 R^{12} - 2816 l^2 R^{13} + 33856 r^2 R^{13} + 8704 r R^{14} + 1024 R^{15}\big) \big/$$
$$\big((2 r - R) \left(l^2 - r^2 - 5 r R - 4 R^2\right)^2 \left(l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2 - 4 R^4\right)^2\big)\big)\}$$

$$\{X59,\ \text{ISOGONAL CONJUGATE OF } X(11),\ X97,\ \text{ISOGONAL CONJUGATE OF } X(53),$$
$$\big(R^2 \big(l^{12} r - 2 l^{10} r^3 - 17 l^8 r^5 - 28 l^6 r^7 - 17 l^4 r^9 - 2 l^2 r^{11} + r^{13} - 36 l^{10} r^2 R + 108 l^8 r^4 R + 184 l^6 r^6 R -$$
$$72 l^4 r^8 R - 84 l^2 r^{10} R + 28 r^{12} R - 19 l^{10} r R^2 + 553 l^8 r^3 R^2 - 1462 l^6 r^5 R^2 + 1066 l^4 r^7 R^2 -$$
$$1159 l^2 r^9 R^2 + 349 r^{11} R^2 - l^{10} R^3 + 574 l^8 r^2 R^3 - 5106 l^6 r^4 R^3 + 9052 l^4 r^6 R^3 - 8053 l^2 r^8 R^3 +$$
$$2558 r^{10} R^3 + 180 l^8 r R^4 - 6908 l^6 r^3 R^4 + 28220 l^4 r^5 R^4 - 32676 l^2 r^7 R^4 + 12272 r^9 R^4 +$$
$$16 l^8 R^5 - 4012 l^6 r^2 R^5 + 42524 l^4 r^4 R^5 - 82388 l^2 r^6 R^5 + 40596 r^8 R^5 - 1040 l^6 r R^6 +$$
$$35008 l^4 r^3 R^6 - 132112 l^2 r^5 R^6 + 95008 r^7 R^6 - 96 l^6 R^7 + 15488 l^4 r^2 R^7 - 134688 l^2 r^4 R^7 +$$
$$158720 r^6 R^7 + 3520 l^4 r R^8 - 85568 l^2 r^3 R^8 + 188288 r^5 R^8 + 256 l^4 R^9 - 32192 l^2 r^2 R^9 +$$
$$155200 r^4 R^9 - 6144 l^2 r R^{10} + 84736 r^3 R^{10} - 256 l^2 R^{11} + 27648 r^2 R^{11} + 4096 r R^{12}\big)\big) \big/ \big((2 r - R)$$
$$\left(-l^2 + r^2 + 5 r R + 4 R^2\right)^2 \left(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 7 l^2 R^2 + 23 r^2 R^2 + 28 r R^3 + 12 R^4\right)^2\big)\}$$

{X59, ISOGONAL CONJUGATE OF X(11), X98, TarryPoint,

$$\left(-l^{10} r - 3 l^8 r^3 - 2 l^6 r^5 + 2 l^4 r^7 + 3 l^2 r^9 + r^{11} + l^{10} R + 24 l^8 r^2 R + 22 l^6 r^4 R - 4 l^4 r^6 R + 17 l^2 r^8 R + 20 r^{10} R - 10 l^8 r R^2 - 168 l^6 r^3 R^2 + 116 l^4 r^5 R^2 - 72 l^2 r^7 R^2 + 166 r^9 R^2 - 12 l^8 R^3 - 56 l^6 r^2 R^3 + 536 l^4 r^4 R^3 - 728 l^2 r^6 R^3 + 740 r^8 R^3 + 160 l^6 r R^4 + 720 l^4 r^3 R^4 - 1904 l^2 r^5 R^4 + 1920 r^7 R^4 + 48 l^6 R^5 - 516 l^4 r^2 R^5 - 1960 l^2 r^4 R^5 + 2940 r^6 R^5 - 544 l^4 r R^6 - 32 l^2 r^3 R^6 + 2496 r^5 R^6 - 64 l^4 R^7 + 1664 l^2 r^2 R^7 + 640 r^4 R^7 + 512 l^2 r R^8 - 1024 r^3 R^8 - 1024 r^2 R^9\right) \Big/ \left((2 r - R)\left(-l^2 + r^2 + 5 r R + 4 R^2\right)^2 \left(l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\right)\right)\}$$

{X59, ISOGONAL CONJUGATE OF X(11), X99, STEINER POINT,

$$-\left(\left(-l^6 r - l^4 r^3 + l^2 r^5 + r^7 + l^6 R + 2 l^4 r^2 R + 9 l^2 r^4 R + 8 r^6 R + 8 l^2 r^3 R^2 + 16 r^5 R^2 - 4 l^4 R^3\right)\left(l^4 + 2 l^2 r^2 + r^4 - 20 l^2 r R + 12 r^3 R - 4 l^2 R^2 + 48 r^2 R^2 + 64 r R^3\right)\right) \Big/ \left((2 r - R)\left(-l^2 + r^2 + 5 r R + 4 R^2\right)^2 \left(l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\right)\right)\}$$

{X59, ISOGONAL CONJUGATE OF X(11), X100, ANTICOMPLEMENT OF FEUERBACH POINT,

$$\frac{R\left(-l^2 r + r^3 + l^2 R + 2 r^2 R - 4 R^3\right)\left(l^4 + 2 l^2 r^2 + r^4 - 20 l^2 r R + 12 r^3 R - 4 l^2 R^2 + 48 r^2 R^2 + 64 r R^3\right)}{(2 r - R)^2 \left(-l^2 + r^2 + 5 r R + 4 R^2\right)^2}\}$$

{X60, ISOGONAL CONJUGATE OF X(12), X61, ISOGONAL CONJUGATE OF X(17),

$$-\left(\left(3 r^2 R^2 \left(4 \sqrt{3}\, l^7 r + 40 l^6 r^2 - 60 \sqrt{3}\, l^5 r^3 - 48 l^4 r^4 + 60 \sqrt{3}\, l^3 r^5 + 40 l^2 r^6 - 4 \sqrt{3}\, l r^7 + 2 \sqrt{3}\, l^7 R - 18 l^6 r R - 98 \sqrt{3}\, l^5 r^2 R - 30 l^4 r^3 R + 246 \sqrt{3}\, l^3 r^4 R + 122 l^2 r^5 R - 38 \sqrt{3}\, l r^6 R + 6 r^7 R - 7 l^6 R^2 - 26 \sqrt{3}\, l^5 r R^2 + l^4 r^2 R^2 + 396 \sqrt{3}\, l^3 r^3 R^2 + 103 l^2 r^4 R^2 - 122 \sqrt{3}\, l r^5 R^2 + 63 r^6 R^2 + 92 l^4 r R^3 + 232 \sqrt{3}\, l^3 r^2 R^3 - 64 l^2 r^3 R^3 - 152 \sqrt{3}\, l r^4 R^3 + 228 r^5 R^3 - 16 l^2 r^2 R^4 - 64 \sqrt{3}\, l r^3 R^4 + 336 r^4 R^4 + 192 r^3 R^5\right)\right) \Big/ \left(\left(3 l^2 + 2 \sqrt{3}\, l r - 3 r^2 - 12 r R\right)^2 \left(2 l^2 r - 2 r^3 + l^2 R - 7 r^2 R - 7 r R^2\right)^2\right)\right)\}$$

{X60, ISOGONAL CONJUGATE OF X(12), X62, ISOGONAL CONJUGATE OF X(18),

$$-\left(\left(3 r^2 R^2 \left(-4 \sqrt{3}\, l^7 r + 40 l^6 r^2 + 60 \sqrt{3}\, l^5 r^3 - 48 l^4 r^4 - 60 \sqrt{3}\, l^3 r^5 + 40 l^2 r^6 + 4 \sqrt{3}\, l r^7 - 2 \sqrt{3}\, l^7 R - 18 l^6 r R + 98 \sqrt{3}\, l^5 r^2 R - 30 l^4 r^3 R - 246 \sqrt{3}\, l^3 r^4 R + 122 l^2 r^5 R + 38 \sqrt{3}\, l r^6 R + 6 r^7 R - 7 l^6 R^2 + 26 \sqrt{3}\, l^5 r R^2 + l^4 r^2 R^2 - 396 \sqrt{3}\, l^3 r^3 R^2 + 103 l^2 r^4 R^2 + 122 \sqrt{3}\, l r^5 R^2 + 63 r^6 R^2 + 92 l^4 r R^3 - 232 \sqrt{3}\, l^3 r^2 R^3 - 64 l^2 r^3 R^3 + 152 \sqrt{3}\, l r^4 R^3 + 228 r^5 R^3 - 16 l^2 r^2 R^4 + 64 \sqrt{3}\, l r^3 R^4 + 336 r^4 R^4 + 192 r^3 R^5\right)\right) \Big/ \left(\left(3 l^2 - 2 \sqrt{3}\, l r - 3 r^2 - 12 r R\right)^2 \left(2 l^2 r - 2 r^3 + l^2 R - 7 r^2 R - 7 r R^2\right)^2\right)\right)\}$$

{X60, ISOGONAL CONJUGATE OF X(12), X63, ISOGONAL CONJUGATE OF X(19),

$$-\left(\left(R\left(-6 l^6 r^3 + 14 l^4 r^5 - 10 l^2 r^7 + 2 r^9 - 9 l^6 r^2 R + 83 l^4 r^4 R - 91 l^2 r^6 R + 25 r^8 R - 5 l^6 r R^2 + 158 l^4 r^3 R^2 - 335 l^2 r^5 R^2 + 134 r^7 R^2 - l^6 R^3 + 106 l^4 r^2 R^3 - 606 l^2 r^4 R^3 + 395 r^6 R^3 + 24 l^4 r R^4 - 512 l^2 r^3 R^4 + 676 r^5 R^4 - 144 l^2 r^2 R^5 + 636 r^4 R^5 + 256 r^3 R^6\right)\right) \Big/ \left((r + R)^2 \left(-2 l^2 r + 2 r^3 - l^2 R + 7 r^2 R + 7 r R^2\right)^2\right)\right)\}$$

{X60, ISOGONAL CONJUGATE OF X(12), X64, ISOGONAL CONJUGATE OF X(20),

$$\frac{1}{(1 - r - 2 R)^2 (1 + r + 2 R)^2 \left(2 l^2 r - 2 r^3 + l^2 R - 7 r^2 R - 7 r R^2\right)^2}$$

$$R^2\left(36 l^8 r^2 - 144 l^6 r^4 + 216 l^4 r^6 - 144 l^2 r^8 + 36 r^{10} + 42 l^8 r R - 714 l^6 r^3 R + 1890 l^4 r^5 R - 1782 l^2 r^7 R + 564 r^9 R + 12 l^8 R^2 - 1181 l^6 r^2 R^2 + 6535 l^4 r^4 R^2 - 9403 l^2 r^6 R^2 + 3957 r^8 R^2 - 664 l^6 r R^3 + 11\,076 l^4 r^3 R^3 - 27\,216 l^2 r^5 R^3 + 16\,164 r^7 R^3 - 112 l^6 R^4 + 9092 l^4 r^2 R^4 - 46\,100 l^2 r^4 R^4 + 41\,908 r^6 R^4 + 2944 l^4 r R^5 - 44\,704 l^2 r^3 R^5 + 70\,464 r^5 R^5 + 256 l^4 R^6 - 21\,888 l^2 r^2 R^6 + 74\,944 r^4 R^6 - 3584 l^2 r R^7 + 46\,080 r^3 R^7 + 12\,544 r^2 R^8\right)\}$$

{X60, ISOGONAL CONJUGATE OF X(12), X65, ORTHOCENTER OF THE INTOUCH TRIANGLE,

$$-\left(\left(r^2\left(-2 l^2 + 2 r^2 + 8 r R + 9 R^2\right)\left(-4 l^2 r^3 + 4 r^5 - 8 l^2 r^2 R + 20 r^4 R - 5 l^2 r R^2 + 41 r^3 R^2 - l^2 R^3 + 40 r^2 R^3 + 16 r R^4\right)\right) \Big/ \left(R\left(-2 l^2 r + 2 r^3 - l^2 R + 7 r^2 R + 7 r R^2\right)^2\right)\right)\}$$

$$\{X60,\ \text{ISOGONAL CONJUGATE OF } X(12),\ X66,\ \text{ISOGONAL CONJUGATE OF } X(22),$$
$$-\Big(\big(2 l^{14} r^2 - 38 l^{12} r^4 + 162 l^{10} r^6 - 310 l^8 r^8 + 310 l^6 r^{10} - 162 l^4 r^{12} + 38 l^2 r^{14} - 2 r^{16} + l^{14} r R -$$
$$85 l^{12} r^3 R + 901 l^{10} r^5 R - 2825 l^8 r^7 R + 3955 l^6 r^9 R - 2671 l^4 r^{11} R + 775 l^2 r^{13} R - 51 r^{15} R -$$
$$51 l^{12} r^2 R^2 + 1634 l^{10} r^4 R^2 - 9817 l^8 r^6 R^2 + 20732 l^6 r^8 R^2 - 18869 l^4 r^{10} R^2 + 6946 l^2 r^{12} R^2 -$$
$$575 r^{14} R^2 - 5 l^{12} r R^3 + 1144 l^{10} r^3 R^3 - 16321 l^8 r^5 R^3 + 57632 l^6 r^7 R^3 - 74623 l^4 r^9 R^3 +$$
$$35944 l^2 r^{11} R^3 - 3771 r^{13} R^3 + l^{12} R^4 + 236 l^{10} r^2 R^4 - 13107 l^8 r^4 R^4 + 90936 l^6 r^6 R^4 -$$
$$180653 l^4 r^8 R^4 + 118492 l^2 r^{10} R^4 - 15905 r^{12} R^4 - 22 l^{10} r R^5 - 4278 l^8 r^3 R^5 + 79940 l^6 r^5 R^5 -$$
$$273804 l^4 r^7 R^5 + 258450 l^2 r^9 R^5 - 44926 r^{11} R^5 - 4 l^{10} R^6 - 139 l^8 r^2 R^6 + 34808 l^6 r^4 R^6 -$$
$$253274 l^4 r^6 R^6 + 373900 l^2 r^8 R^6 - 85403 r^{10} R^6 + 88 l^8 r R^7 + 4944 l^6 r^3 R^7 - 130864 l^4 r^5 R^7 +$$
$$347824 l^2 r^7 R^7 - 105768 r^9 R^7 - 340 l^6 r^2 R^8 - 29844 l^4 r^4 R^8 + 191876 l^2 r^6 R^8 - 76700 r^8 R^8 -$$
$$944 l^4 r^3 R^9 + 51648 l^2 r^5 R^9 - 20688 r^7 R^9 + 3440 l^2 r^4 R^{10} + 9664 r^6 R^{10} + 6400 r^5 R^{11}\big) \Big/$$
$$\Big((l - r - 2 R)^2 (l + r + 2 R)^2 \left(l^2 - r^2 - 4 r R\right)^2 \left(2 l^2 r - 2 r^3 + l^2 R - 7 r^2 R - 7 r R^2\right)^2\Big)\Big)\}$$

$$\{X60,\ \text{ISOGONAL CONJUGATE OF } X(12),\ X67,\ \text{ISOGONAL CONJUGATE OF } X(23),$$
$$\big(64 l^{10} r^4 - 256 l^8 r^6 + 384 l^6 r^8 - 256 l^4 r^{10} + 64 l^2 r^{12} + 2 l^{12} r R + 56 l^{10} r^3 R - 1150 l^8 r^5 R + 3088 l^6 r^7 R -$$
$$2954 l^4 r^9 R + 952 l^2 r^{11} R + 6 r^{13} R + l^{12} R^2 - 34 l^{10} r^2 R^2 - 1477 l^8 r^4 R^2 + 9348 l^6 r^6 R^2 -$$
$$14009 l^4 r^8 R^2 + 6046 l^2 r^{10} R^2 + 125 r^{12} R^2 - 35 l^{10} r R^3 - 339 l^8 r^3 R^3 + 13046 l^6 r^5 R^3 -$$
$$35210 l^4 r^7 R^3 + 21421 l^2 r^9 R^3 + 1117 r^{11} R^3 - 4 l^{10} R^4 + 290 l^8 r^2 R^4 + 7664 l^6 r^4 R^4 -$$
$$49852 l^4 r^6 R^4 + 46292 l^2 r^8 R^4 + 5594 r^{10} R^4 + 92 l^8 r R^5 + 766 l^6 r^3 R^5 - 38210 l^4 r^5 R^5 +$$
$$62402 l^2 r^7 R^5 + 17190 r^9 R^5 - 409 l^6 r^2 R^6 - 13189 l^4 r^4 R^6 + 51153 l^2 r^6 R^6 + 33245 r^8 R^6 -$$
$$932 l^4 r^3 R^7 + 23224 l^2 r^5 R^7 + 39596 r^7 R^7 + 4444 l^2 r^4 R^8 + 26608 r^6 R^8 + 7744 r^5 R^9\big) \Big/$$
$$\Big(\left(l^2 - r^2 - 4 r R\right)^2 \left(2 l^2 - 2 r^2 - 8 r R - 9 R^2\right) \left(2 l^2 r - 2 r^3 + l^2 R - 7 r^2 R - 7 r R^2\right)^2\Big)\}$$

$$\{X60,\ \text{ISOGONAL CONJUGATE OF } X(12),\ X68,\ \text{PRASOLOV POINT},$$
$$-\frac{1}{(l - r - 2 R)^2 (l + r + 2 R)^2 \left(2 l^2 r - 2 r^3 + l^2 R - 7 r^2 R - 7 r R^2\right)^2}$$
$$\big(2 l^{10} r^2 - 34 l^8 r^4 + 92 l^6 r^6 - 92 l^4 r^8 + 34 l^2 r^{10} - 2 r^{12} + l^{10} r R - 67 l^8 r^3 R + 478 l^6 r^5 R -$$
$$794 l^4 r^7 R + 417 l^2 r^9 R - 35 r^{11} R - 51 l^8 r^2 R^2 + 972 l^6 r^4 R^2 - 2910 l^4 r^6 R^2 + 2260 l^2 r^8 R^2 -$$
$$271 r^{10} R^2 - 13 l^8 r R^3 + 886 l^6 r^3 R^3 - 5704 l^4 r^5 R^3 + 7018 l^2 r^7 R^3 - 1227 r^9 R^3 - l^8 R^4 +$$
$$378 l^6 r^2 R^4 - 6256 l^4 r^4 R^4 + 13566 l^2 r^6 R^4 - 3607 r^8 R^4 + 64 l^6 r R^5 - 3664 l^4 r^3 R^5 +$$
$$16568 l^2 r^5 R^5 - 7192 r^7 R^5 + 4 l^6 R^6 - 1043 l^4 r^2 R^6 + 12350 l^2 r^4 R^6 - 9803 r^6 R^6 - 112 l^4 r R^7 +$$
$$5120 l^2 r^3 R^7 - 8912 r^5 R^7 - 4 l^4 R^8 + 996 l^2 r^2 R^8 - 5056 r^4 R^8 + 56 l^2 r R^9 - 1560 r^3 R^9 - 196 r^2 R^{10}\big)\}$$

$$\{X60,\ \text{ISOGONAL CONJUGATE OF } X(12),\ X69,\ \text{SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},$$
$$\frac{1}{\left(l^2 - r^2 - 4 r R\right)^2 \left(2 l^2 r - 2 r^3 + l^2 R - 7 r^2 R - 7 r R^2\right)^2}$$
$$\big(2 l^{10} r^2 + 30 l^8 r^4 - 100 l^6 r^6 + 100 l^4 r^8 - 30 l^2 r^{10} - 2 r^{12} + 3 l^{10} r R - 9 l^8 r^3 R -$$
$$358 l^6 r^5 R + 690 l^4 r^7 R - 285 l^2 r^9 R - 41 r^{11} R + l^{10} R^2 - 56 l^8 r^2 R^2 - 362 l^6 r^4 R^2 +$$
$$1912 l^4 r^6 R^2 - 1143 l^2 r^8 R^2 - 352 r^{10} R^2 - 24 l^8 r R^3 + 72 l^6 r^3 R^3 + 2624 l^4 r^5 R^3 -$$
$$2568 l^2 r^7 R^3 - 1640 r^9 R^3 + 120 l^6 r^2 R^4 + 1648 l^4 r^4 R^4 - 3624 l^2 r^6 R^4 - 4480 r^8 R^4 +$$
$$224 l^4 r^3 R^5 - 3216 l^2 r^5 R^5 - 7184 r^7 R^5 - 1392 l^2 r^4 R^6 - 6272 r^6 R^6 - 2304 r^5 R^7\big)\}$$

$$\{X60,\ \text{ISOGONAL CONJUGATE OF } X(12),\ X70,\ \text{ISOGONAL CONJUGATE OF } X(26),$$
$$-\Big(\big(2 l^{14} r^2 - 38 l^{12} r^4 + 162 l^{10} r^6 - 310 l^8 r^8 + 310 l^6 r^{10} - 162 l^4 r^{12} + 38 l^2 r^{14} - 2 r^{16} + l^{14} r R - 85 l^{12} r^3 R +$$
$$901 l^{10} r^5 R - 2825 l^8 r^7 R + 3955 l^6 r^9 R - 2671 l^4 r^{11} R + 775 l^2 r^{13} R - 51 r^{15} R - 63 l^{12} r^2 R^2 +$$
$$1786 l^{10} r^4 R^2 - 10317 l^8 r^6 R^2 + 21452 l^6 r^8 R^2 - 19369 l^4 r^{10} R^2 + 7098 l^2 r^{12} R^2 - 587 r^{14} R^2 -$$
$$13 l^{12} r R^3 + 1544 l^{10} r^3 R^3 - 19257 l^8 r^5 R^3 + 64384 l^6 r^7 R^3 - 81143 l^4 r^9 R^3 + 38520 l^2 r^{11} R^3 -$$
$$4035 r^{13} R^3 + 572 l^{10} r^2 R^4 - 19284 l^8 r^4 R^4 + 116216 l^6 r^6 R^4 - 216584 l^4 r^8 R^4 + 137548 l^2 r^{10} R^4 -$$
$$18468 r^{12} R^4 + 67 l^{10} r R^5 - 9973 l^8 r^3 R^5 + 128082 l^6 r^5 R^5 - 382542 l^4 r^7 R^5 + 339115 l^2 r^9 R^5 -$$
$$59389 r^{11} R^5 + l^{10} R^6 - 2360 l^8 r^2 R^6 + 83514 l^6 r^4 R^6 - 449028 l^4 r^6 R^6 + 588773 l^2 r^8 R^6 -$$
$$137956 r^{10} R^6 - 191 l^8 r R^7 + 29734 l^6 r^3 R^7 - 342180 l^4 r^5 R^7 + 720186 l^2 r^7 R^7 - 234301 r^9 R^7 -$$
$$6 l^8 R^8 + 5006 l^6 r^2 R^8 - 160318 l^4 r^4 R^8 + 610130 l^2 r^6 R^8 - 291132 r^8 R^8 + 314 l^6 r R^9 -$$
$$41942 l^4 r^3 R^9 + 344862 l^2 r^5 R^9 - 262162 r^7 R^9 + 9 l^6 R^{10} - 5249 l^4 r^2 R^{10} + 121795 l^2 r^4 R^{10} -$$
$$167587 r^6 R^{10} - 234 l^4 r R^{11} + 24084 l^2 r^3 R^{11} - 73282 r^5 R^{11} - 4 l^4 R^{12} + 2212 l^2 r^2 R^{12} -$$
$$20440 r^4 R^{12} + 56 l^2 r R^{13} - 3136 r^3 R^{13} - 196 r^2 R^{14}\big) \Big/ \Big(\big(2 l^2 r - 2 r^3 + l^2 R - 7 r^2 R - 7 r R^2\big)^2$$
$$\big(l^4 - 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 6 l^2 R^2 + 22 r^2 R^2 + 24 r R^3 + 7 R^4\big)^2\Big)\Big)\}$$

$$\{X60,\ \text{ISOGONAL CONJUGATE OF } X(12),\ X71,\ \text{ISOGONAL CONJUGATE OF } X(27),$$
$$\frac{1}{\big(l^2 + r^2 + 6 r R + 8 R^2\big)^2 \big(2 l^2 r - 2 r^3 + l^2 R - 7 r^2 R - 7 r R^2\big)^2}$$
$$R^2 \big(36 l^8 r^2 - 132 l^6 r^4 + 76 l^4 r^6 - 12 l^2 r^8 + 42 l^8 r R - 500 l^6 r^3 R + 408 l^4 r^5 R -$$
$$76 l^2 r^7 R - 2 r^9 R + 12 l^8 R^2 - 581 l^6 r^2 R^2 + 773 l^4 r^4 R^2 - 135 l^2 r^6 R^2 - 29 r^8 R^2 -$$
$$160 l^6 r R^3 + 488 l^4 r^3 R^3 + 160 l^2 r^5 R^3 - 168 r^7 R^3 + 16 l^6 R^4 - 204 l^4 r^2 R^4 + 912 l^2 r^4 R^4 -$$
$$500 r^6 R^4 - 288 l^4 r R^5 + 1200 l^2 r^3 R^5 - 816 r^5 R^5 + 528 l^2 r^2 R^6 - 704 r^4 R^6 - 256 r^3 R^7\big)\}$$

$$\{X60,\ \text{ISOGONAL CONJUGATE OF } X(12),\ X72,\ \text{ISOGONAL CONJUGATE OF } X(28),$$
$$-\Big(\big(-4 l^6 r^3 + 12 l^4 r^5 - 12 l^2 r^7 + 4 r^9 - 6 l^6 r^2 R + 58 l^4 r^4 R - 98 l^2 r^6 R + 46 r^8 R - 4 l^6 r R^2 + 114 l^4 r^3 R^2 -$$
$$332 l^2 r^5 R^2 + 222 r^7 R^2 - l^6 R^3 + 88 l^4 r^2 R^3 - 563 l^2 r^4 R^3 + 580 r^6 R^3 + 24 l^4 r R^4 - 470 l^2 r^3 R^4 +$$
$$872 r^5 R^4 - 144 l^2 r^2 R^5 + 719 r^4 R^5 + 256 r^3 R^6\big) \Big/ \Big(R \big(-2 l^2 r + 2 r^3 - l^2 R + 7 r^2 R + 7 r R^2\big)^2\Big)\Big)\}$$

$$\{X60,\ \text{ISOGONAL CONJUGATE OF } X(12),\ X73,\ \text{CROSSPOINT OF INCENTER AND CIRCUMCENTER},$$
$$-\frac{1}{\big(l^2 + r^2 - 2 r R - 4 R^2\big)^2 \big(2 l^2 r - 2 r^3 + l^2 R - 7 r^2 R - 7 r R^2\big)^2}$$
$$r^2 R^2 \big(12 l^6 r^2 - 76 l^4 r^4 + 132 l^2 r^6 - 36 r^8 - 12 l^6 r R - 164 l^4 r^3 R + 732 l^2 r^5 R - 396 r^7 R - 5 l^6 R^2 +$$
$$37 l^4 r^2 R^2 + 1353 l^2 r^4 R^2 - 1697 r^6 R^2 + 276 l^4 r R^3 + 344 l^2 r^3 R^3 - 3388 r^5 R^3 + 56 l^4 R^4 -$$
$$1656 l^2 r^2 R^4 - 2384 r^4 R^4 - 1552 l^2 r R^5 + 2192 r^3 R^5 - 144 l^2 R^6 + 4736 r^2 R^6 + 2304 r R^7\big)\}$$

$$\{X60,\ \text{ISOGONAL CONJUGATE OF } X(12),\ X74,\ \text{ISOGONAL CONJUGATE OF EULER INFINITY POINT},$$
$$\Big(R^2 \big(24 l^6 r^2 - 104 l^4 r^4 + 104 l^2 r^6 - 24 r^8 + 30 l^6 r R - 422 l^4 r^3 R + 794 l^2 r^5 R -$$
$$290 r^7 R + 9 l^6 R^2 - 589 l^4 r^2 R^2 + 2411 l^2 r^4 R^2 - 1471 r^6 R^2 - 282 l^4 r R^3 + 3524 l^2 r^3 R^3 -$$
$$4002 r^5 R^3 - 36 l^4 R^4 + 2364 l^2 r^2 R^4 - 6160 r^4 R^4 + 504 l^2 r R^5 - 5088 r^3 R^5 - 1764 r^2 R^6\big)\Big) \Big/$$
$$\Big(\big(2 l^2 - 2 r^2 - 8 r R - 9 R^2\big) \big(2 l^2 r - 2 r^3 + l^2 R - 7 r^2 R - 7 r R^2\big)^2\Big)\}$$

$$\{X60,\ \text{ISOGONAL CONJUGATE OF } X(12),\ X75,$$
$$\text{ISOTOMIC CONJUGATE OF INCENTER},\ \frac{1}{\big(l^2 + r^2 + 4 r R\big)^2 \big(2 l^2 r - 2 r^3 + l^2 R - 7 r^2 R - 7 r R^2\big)^2}$$
$$\big(2 l^{10} r^2 + 6 l^8 r^4 + 4 l^6 r^6 - 4 l^4 r^8 - 6 l^2 r^{10} - 2 r^{12} + 3 l^{10} r R - 45 l^8 r^3 R +$$
$$158 l^6 r^5 R - 218 l^4 r^7 R + 47 l^2 r^9 R - 41 r^{11} R + l^{10} R^2 - 68 l^8 r^2 R^2 + 462 l^6 r^4 R^2 -$$
$$1204 l^4 r^6 R^2 + 729 l^2 r^8 R^2 - 352 r^{10} R^2 - 24 l^8 r R^3 + 488 l^6 r^3 R^3 - 2544 l^4 r^5 R^3 +$$
$$2984 l^2 r^7 R^3 - 1640 r^9 R^3 + 168 l^6 r^2 R^4 - 2304 l^4 r^4 R^4 + 5592 l^2 r^6 R^4 - 4480 r^8 R^4 -$$
$$736 l^4 r^3 R^5 + 4976 l^2 r^5 R^5 - 7184 r^7 R^5 + 1680 l^2 r^4 R^6 - 6272 r^6 R^6 - 2304 r^5 R^7\big)\}$$

$$\{X60,\ \text{ISOGONAL CONJUGATE OF } X(12),\ X76,\ \text{3rd BROCARD POINT},$$
$$\Big(2 l^{14} r^2 + 10 l^{12} r^4 + 18 l^{10} r^6 + 10 l^8 r^8 - 10 l^6 r^{10} - 18 l^4 r^{12} - 10 l^2 r^{14} - 2 r^{16} + 3 l^{14} r R - 39 l^{12} r^3 R - 105 l^{10} r^5 R - 27 l^8 r^7 R + 57 l^6 r^9 R - 69 l^4 r^{11} R - 147 l^2 r^{13} R - 57 r^{15} R + l^{14} R^2 - 82 l^{12} r^2 R^2 + 143 l^{10} r^4 R^2 + 1212 l^8 r^6 R^2 - 1841 l^6 r^8 R^2 + 1150 l^4 r^{10} R^2 - 831 l^2 r^{12} R^2 - 712 r^{14} R^2 - 32 l^{12} r R^3 + 648 l^{10} r^3 R^3 + 1512 l^8 r^5 R^3 - 9392 l^6 r^7 R^3 + 9136 l^4 r^9 R^3 - 2136 l^2 r^{11} R^3 - 5112 r^{13} R^3 + 328 l^{10} r^2 R^4 - 896 l^8 r^4 R^4 - 16432 l^6 r^6 R^4 + 28800 l^4 r^8 R^4 - 1752 l^2 r^{10} R^4 - 23232 r^{12} R^4 - 1120 l^8 r^3 R^5 - 10160 l^6 r^5 R^5 + 47408 l^4 r^7 R^5 + 2544 l^2 r^9 R^5 - 69264 r^{11} R^5 - 1264 l^6 r^4 R^6 + 39712 l^4 r^6 R^6 + 4624 l^2 r^8 R^6 - 135424 r^{10} R^6 + 12416 l^4 r^5 R^7 - 1152 l^2 r^7 R^7 - 167424 r^9 R^7 - 3840 l^2 r^6 R^8 - 118784 r^8 R^8 - 36864 r^7 R^9\Big) \Big/ \Big(\big(2 l^2 r - 2 r^3 + l^2 R - 7 r^2 R - 7 r R^2\big)^2 \big(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\big)^2\Big)\}$$

$$\{X60,\ \text{ISOGONAL CONJUGATE OF } X(12),\ X77,$$
$$\text{ISOGONAL CONJUGATE OF } X(33),\ -\frac{1}{\big(l^2 - r R - 4 R^2\big)^2 \big(2 l^2 r - 2 r^3 + l^2 R - 7 r^2 R - 7 r R^2\big)^2}$$
$$r^2 R \big(2 l^8 r - 10 l^6 r^3 + 14 l^4 r^5 - 6 l^2 r^7 + l^8 R - 45 l^6 r^2 R + 121 l^4 r^4 R - 71 l^2 r^6 R + 2 r^8 R - 64 l^6 r R^2 + 439 l^4 r^3 R^2 - 424 l^2 r^5 R^2 + 41 r^7 R^2 - 16 l^6 R^3 + 775 l^4 r^2 R^3 - 1541 l^2 r^4 R^3 + 352 r^6 R^3 + 580 l^4 r R^4 - 3340 l^2 r^3 R^4 + 1640 r^5 R^4 + 80 l^4 R^5 - 3944 l^2 r^2 R^5 + 4480 r^4 R^5 - 2032 l^2 r R^6 + 7184 r^3 R^6 - 144 l^2 R^7 + 6272 r^2 R^7 + 2304 r R^8\big)\}$$

$$\{X60,\ \text{ISOGONAL CONJUGATE OF } X(12),\ X78,\ \text{ISOGONAL CONJUGATE OF } X(34),$$
$$-\Big(\Big(R \big(-2 l^6 r^3 + 10 l^4 r^5 - 14 l^2 r^7 + 6 r^9 - 3 l^6 r^2 R + 29 l^4 r^4 R - 81 l^2 r^6 R + 63 r^8 R - 3 l^6 r R^2 + 64 l^4 r^3 R^2 - 245 l^2 r^5 R^2 + 272 r^7 R^2 - l^6 R^3 + 68 l^4 r^2 R^3 - 428 l^2 r^4 R^3 + 635 r^6 R^3 + 24 l^4 r R^4 - 400 l^2 r^3 R^4 + 880 r^5 R^4 - 144 l^2 r^2 R^5 + 704 r^4 R^5 + 256 r^3 R^6\big)\Big) \Big/ \Big((r - R)^2 \big(-2 l^2 r + 2 r^3 - l^2 R + 7 r^2 R + 7 r R^2\big)^2\Big)\Big)\}$$

$$\{X60,\ \text{ISOGONAL CONJUGATE OF } X(12),\ X79,$$
$$\text{ISOGONAL CONJUGATE OF } X(35),\ \frac{1}{(2 r + 3 R)^2 \big(-2 l^2 r + 2 r^3 - l^2 R + 7 r^2 R + 7 r R^2\big)^2}$$
$$r^2 \big(-40 l^6 r^2 + 120 l^4 r^4 - 88 l^2 r^6 + 8 r^8 - 48 l^6 r R + 504 l^4 r^3 R - 640 l^2 r^5 R + 88 r^7 R - 14 l^6 R^2 + 730 l^4 r^2 R^2 - 1842 l^2 r^4 R^2 + 358 r^6 R^2 + 342 l^4 r R^3 - 2468 l^2 r^3 R^3 + 550 r^5 R^3 + 36 l^4 R^4 - 1308 l^2 r^2 R^4 - 320 r^4 R^4 + 36 l^2 r R^5 - 2260 r^3 R^5 + 81 l^2 R^6 - 2907 r^2 R^6 - 1296 r R^7\big)\}$$

$$\{X60,\ \text{ISOGONAL CONJUGATE OF } X(12),\ X80,\ \text{REFLECTION OF INCENTER IN FEUERBACH POINT},$$
$$\Big(r^2 \big(-4 l^6 r + 44 l^4 r^3 - 60 l^2 r^5 + 20 r^7 - 2 l^6 R + 90 l^4 r^2 R - 310 l^2 r^4 R + 174 r^6 R + 58 l^4 r R^2 - 620 l^2 r^3 R^2 + 634 r^5 R^2 + 8 l^4 R^3 - 536 l^2 r^2 R^3 + 1216 r^4 R^3 - 178 l^2 r R^4 + 1278 r^3 R^4 - 9 l^2 R^5 + 683 r^2 R^5 + 144 r R^6\big)\Big) \Big/ \Big((2 r - R) \big(-2 l^2 r + 2 r^3 - l^2 R + 7 r^2 R + 7 r R^2\big)^2\Big)\}$$

$$\{X60,\ \text{ISOGONAL CONJUGATE OF } X(12),\ X81,$$
$$\text{CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},\ -\Big(\Big(r^2 R \big(l^2 + r^2 + 2 r R\big)^2 \big(2 l^4 r - 4 l^2 r^3 + 2 r^5 + l^4 R - 18 l^2 r^2 R + 17 r^4 R - 28 l^2 r R^2 + 58 r^3 R^2 - 4 l^2 R^3 + 95 r^2 R^3 + 64 r R^4\big)\Big) \Big/ \Big(\big(l^2 - r^2 - r R\big)^2 \big(2 l^2 r - 2 r^3 + l^2 R - 7 r^2 R - 7 r R^2\big)^2\Big)\Big)\}$$

$$\{X60,\ \text{ISOGONAL CONJUGATE OF } X(12),\ X82,\ \text{ISOGONAL CONJUGATE OF } X(38),$$
$$-\Big(\Big(r^2 R \big(2 l^{12} r + 4 l^{10} r^3 - 2 l^8 r^5 - 8 l^6 r^7 - 2 l^4 r^9 + 4 l^2 r^{11} + 2 r^{13} + l^{12} R - 38 l^{10} r^2 R - 9 l^8 r^4 R + 12 l^6 r^6 R - 49 l^4 r^8 R + 26 l^2 r^{10} R + 57 r^{12} R - 40 l^{10} r R^2 + 334 l^8 r^3 R^2 - 392 l^6 r^5 R^2 + 260 l^4 r^7 R^2 - 352 l^2 r^9 R^2 + 670 r^{11} R^2 - 4 l^{10} R^3 + 471 l^8 r^2 R^3 - 2180 l^6 r^4 R^3 + 3458 l^4 r^6 R^3 - 3968 l^2 r^8 R^3 + 4255 r^{10} R^3 + 112 l^8 r R^4 - 2940 l^6 r^3 R^4 + 10252 l^4 r^5 R^4 - 15604 l^2 r^7 R^4 + 16020 r^9 R^4 - 1024 l^6 r^2 R^5 + 11920 l^4 r^4 R^5 - 30336 l^2 r^6 R^5 + 36784 r^8 R^5 + 4768 l^4 r^3 R^6 - 29616 l^2 r^5 R^6 + 50640 r^7 R^6 - 11536 l^2 r^4 R^7 + 38528 r^6 R^7 + 12544 r^5 R^8\big)\Big) \Big/ \Big(\big(2 l^2 r - 2 r^3 + l^2 R - 7 r^2 R - 7 r R^2\big)^2 \big(l^4 - 4 l^2 r^2 + 3 r^4 - 9 l^2 r R + 19 r^3 R + 28 r^2 R^2\big)^2\Big)\Big)\}$$

$$\{X60,\ \text{ISOGONAL CONJUGATE OF } X(12),\ X83,\ \text{CEVAPOINT OF CENTROID AND SYMMEDIAN POINT},$$
$$-\Big(\big(6 l^{14} r^2 - 2 l^{12} r^4 - 42 l^{10} r^6 - 34 l^8 r^8 + 34 l^6 r^{10} + 42 l^4 r^{12} + 2 l^2 r^{14} - 6 r^{16} + l^{14} r R - 157 l^{12} r^3 R + 205 l^{10} r^5 R + 215 l^8 r^7 R - 269 l^6 r^9 R + 281 l^4 r^{11} R + 255 l^2 r^{13} R - 147 r^{15} R - l^{14} R^2 - 50 l^{12} r^2 R^2 + 1593 l^{10} r^4 R^2 - 3400 l^8 r^6 R^2 + 3297 l^6 r^8 R^2 - 2714 l^4 r^{10} R^2 + 3783 l^2 r^{12} R^2 - 1548 r^{14} R^2 + 24 l^{12} r R^3 + 688 l^{10} r^3 R^3 - 9032 l^8 r^5 R^3 + 21856 l^6 r^7 R^3 - 25784 l^4 r^9 R^3 + 23664 l^2 r^{11} R^3 - 9112 r^{13} R^3 - 136 l^{10} r^2 R^4 - 4672 l^8 r^4 R^4 + 35184 l^6 r^6 R^4 - 73152 l^4 r^8 R^4 + 76760 l^2 r^{10} R^4 - 32576 r^{12} R^4 + 64 l^8 r^3 R^5 + 18832 l^6 r^5 R^5 - 89744 l^4 r^7 R^5 + 135216 l^2 r^9 R^5 - 71664 r^{11} R^5 + 1136 l^6 r^4 R^6 - 43040 l^4 r^6 R^6 + 122224 l^2 r^8 R^6 - 92928 r^{10} R^6 - 1664 l^4 r^5 R^7 + 41600 l^2 r^7 R^7 - 61952 r^9 R^7 - 2304 l^2 r^6 R^8 - 12288 r^8 R^8 + 4096 r^7 R^9\big) \Big/ \big(\big(2 l^2 r - 2 r^3 + l^2 R - 7 r^2 R - 7 r R^2\big)^2 \big(5 l^4 - 6 l^2 r^2 + 5 r^4 - 40 l^2 r R + 40 r^3 R + 80 r^2 R^2\big)^2\big)\Big)\}$$

$$\{X60,\ \text{ISOGONAL CONJUGATE OF } X(12),\ X84,$$
$$\text{ISOGONAL CONJUGATE OF } X(40),\ \frac{1}{r^2 \big(-2 l^2 r + 2 r^3 - l^2 R + 7 r^2 R + 7 r R^2\big)^2}$$
$$R\big(12 l^6 r^3 - 16 l^4 r^5 + 4 l^2 r^7 - 2 l^6 r^2 R - 72 l^4 r^4 R + 42 l^2 r^6 R - 12 l^6 r R^2 - 24 l^4 r^3 R^2 + 114 l^2 r^5 R^2 + 6 r^7 R^2 - 4 l^6 R^3 + 176 l^4 r^2 R^3 - 73 l^2 r^4 R^3 + 87 r^6 R^3 + 120 l^4 r R^4 - 708 l^2 r^3 R^4 + 472 r^5 R^4 + 16 l^4 R^5 - 868 l^2 r^2 R^5 + 1232 r^4 R^5 - 224 l^2 r R^6 + 1568 r^3 R^6 + 784 r^2 R^7\big)\}$$

$$\{X60,\ \text{ISOGONAL CONJUGATE OF } X(12),\ X85,\ \text{ISOTOMIC CONJUGATE OF } X(9),$$
$$\frac{1}{\big(l^2 + r^2 + 8 r R + 16 R^2\big)^2 \big(2 l^2 r - 2 r^3 + l^2 R - 7 r^2 R - 7 r R^2\big)^2}$$
$$\big(2 l^{10} r^2 + 6 l^8 r^4 + 4 l^6 r^6 - 4 l^4 r^8 - 6 l^2 r^{10} - 2 r^{12} + 3 l^{10} r R - 93 l^8 r^3 R + 254 l^6 r^5 R - 154 l^4 r^7 R - 49 l^2 r^9 R - 57 r^{11} R + l^{10} R^2 - 140 l^8 r^2 R^2 + 1102 l^6 r^4 R^2 - 1220 l^4 r^6 R^2 + 153 l^2 r^8 R^2 - 712 r^{10} R^2 - 48 l^8 r R^3 + 1744 l^6 r^3 R^3 - 4520 l^4 r^5 R^3 + 3168 l^2 r^7 R^3 - 5112 r^9 R^3 + 888 l^6 r^2 R^4 - 8576 l^4 r^4 R^4 + 15048 l^2 r^6 R^4 - 23232 r^8 R^4 + 96 l^6 r R^5 - 7552 l^4 r^3 R^5 + 34608 l^2 r^5 R^5 - 69264 r^7 R^5 - 2048 l^4 r^2 R^6 + 40848 l^2 r^4 R^6 - 135424 r^6 R^6 + 21376 l^2 r^3 R^7 - 167424 r^5 R^7 + 2304 l^2 r^2 R^8 - 118784 r^4 R^8 - 36864 r^3 R^9\big)\}$$

$$\{X60,\ \text{ISOGONAL CONJUGATE OF } X(12),\ X86,\ \text{CEVAPOINT OF INCENTER AND CENTROID},$$
$$-\Big(\big(\big(l^2 + r^2 + 2 r R\big)^2 \big(6 l^6 r^2 - 34 l^4 r^4 + 26 l^2 r^6 + 2 r^8 + l^6 r R - 93 l^4 r^3 R + 131 l^2 r^5 R + 33 r^7 R - l^6 R^2 - 50 l^4 r^2 R^2 + 259 l^2 r^4 R^2 + 212 r^6 R^2 + 4 l^4 r R^3 + 280 l^2 r^3 R^3 + 660 r^5 R^3 + 156 l^2 r^2 R^4 + 992 r^4 R^4 + 576 r^3 R^5\big)\big) \Big/ \big(\big(5 l^2 + r^2 + 4 r R\big)^2 \big(2 l^2 r - 2 r^3 + l^2 R - 7 r^2 R - 7 r R^2\big)^2\big)\Big)\}$$

$$\{X60,\ \text{ISOGONAL CONJUGATE OF } X(12),\ X87,\ X(2)\text{-CROSS CONJUGATE OF } X(1),$$
$$\big(r^2 R \big(4 l^{12} r - 28 l^8 r^5 - 32 l^6 r^7 + 12 l^4 r^9 + 32 l^2 r^{11} + 12 r^{13} + 2 l^{12} R - 120 l^{10} r^2 R + 90 l^8 r^4 R + 192 l^6 r^6 R - 170 l^4 r^8 R + 56 l^2 r^{10} R + 206 r^{12} R - 58 l^{10} r R^2 + 1094 l^8 r^3 R^2 - 36 l^6 r^5 R^2 - 2132 l^4 r^7 R^2 + 510 l^2 r^9 R^2 + 1454 r^{11} R^2 + l^{10} R^3 + 521 l^8 r^2 R^3 - 2182 l^6 r^4 R^3 - 4542 l^4 r^6 R^3 + 3637 l^2 r^8 R^3 + 5477 r^{10} R^3 + 16 l^8 r R^4 - 1376 l^6 r^3 R^4 - 3200 l^4 r^5 R^4 + 10080 l^2 r^7 R^4 + 11888 r^9 R^4 - 224 l^6 r^2 R^5 - 352 l^4 r^4 R^5 + 10208 l^2 r^6 R^5 + 14432 r^8 R^5 - 4096 l^4 r^3 R^6 - 1024 l^2 r^5 R^6 + 7168 r^7 R^6 - 7936 l^2 r^4 R^7 - 2816 r^6 R^7 - 4096 r^5 R^8\big)\big) \Big/ \big(\big(2 l^2 r - 2 r^3 + l^2 R - 7 r^2 R - 7 r R^2\big)^2 \big(l^4 + 2 l^2 r^2 + r^4 - 20 l^2 r R + 12 r^3 R + 32 r^2 R^2\big)^2\big)\}$$

$$\{X60,\ \text{ISOGONAL CONJUGATE OF } X(12),\ X88,\ \text{ISOGONAL CONJUGATE OF } X(44),$$
$$\frac{1}{\big(l^2 + 3 r^2 - 15 r R\big)^2 \big(2 l^2 r - 2 r^3 + l^2 R - 7 r^2 R - 7 r R^2\big)^2}$$
$$r^2 R \big(2 l^8 r - 8 l^6 r^3 - 204 l^4 r^5 + 264 l^2 r^7 - 54 r^9 + l^8 R - 64 l^6 r^2 R - 26 l^4 r^4 R + 1008 l^2 r^6 R - 567 r^8 R - 26 l^6 r R^2 + 380 l^4 r^3 R^2 + 2550 l^2 r^5 R^2 - 2880 r^7 R^2 + 85 l^4 r^2 R^3 + 3906 l^2 r^4 R^3 - 9315 r^6 R^3 + 2676 l^2 r^3 R^4 - 19044 r^5 R^4 + 576 l^2 r^2 R^5 - 20988 r^4 R^5 - 9216 r^3 R^6\big)\}$$

$$\left\{X60,\ \text{ISOGONAL CONJUGATE OF } X(12),\ X89,\ \text{ISOGONAL CONJUGATE OF } X(45),\right.$$

$$-\frac{1}{\left(2 l^2-6 r^2+3 r R\right)^2 \left(2 l^2 r-2 r^3+l^2 R-7 r^2 R-7 r R^2\right)^2}$$

$$r^2 R \left(4 l^8 r+56 l^6 r^3+144 l^4 r^5-312 l^2 r^7+108 r^9+2 l^8 R+106 l^6 r^2 R+350 l^4 r^4 R-2106 l^2 r^6 R+1296 r^8 R-19 l^6 r R^2-437 l^4 r^3 R^2-6369 l^2 r^5 R^2+6849 r^7 R^2-9 l^6 R^3-1048 l^4 r^2 R^3-8685 l^2 r^4 R^3+20466 r^6 R^3-36 l^4 r R^4-2940 l^2 r^3 R^4+36216 r^5 R^4+1980 l^2 r^2 R^5+35244 r^4 R^5+14400 r^3 R^6\right)\Big\}$$

$$\left\{X60,\ \text{ISOGONAL CONJUGATE OF } X(12),\ X90,\right.$$

$$X(3)\text{-CROSS CONJUGATE OF } X(1),\ -\frac{1}{\left(r^2+2 r R-R^2\right)^2 \left(-2 l^2 r+2 r^3-l^2 R+7 r^2 R+7 r R^2\right)^2}$$

$$r^2 R \left(-12 l^6 r^3+16 l^4 r^5-4 l^2 r^7-6 l^6 r^2 R+72 l^4 r^4 R-34 l^2 r^6 R-4 l^6 r R^2+136 l^4 r^3 R^2-138 l^2 r^5 R^2+2 r^7 R^2-2 l^6 R^3+96 l^4 r^2 R^3-321 l^2 r^4 R^3+25 r^6 R^3+52 l^4 r R^4-450 l^2 r^3 R^4+126 r^5 R^4+8 l^4 R^5-356 l^2 r^2 R^5+332 r^4 R^5-160 l^2 r R^6+492 r^3 R^6-9 l^2 R^7+395 r^2 R^7+144 r R^8\right)\Big\}$$

$$\left\{X60,\ \text{ISOGONAL CONJUGATE OF } X(12),\ X91,\ \text{ISOGONAL CONJUGATE OF } X(47),\right.$$

$$\left(r^2 \left(2 l^{10} r^2+6 l^8 r^4+4 l^6 r^6-4 l^4 r^8-6 l^2 r^{10}-2 r^{12}+5 l^{10} r R-63 l^8 r^3 R+146 l^6 r^5 R-190 l^4 r^7 R+57 l^2 r^9 R-51 r^{11} R+2 l^{10} R^2-143 l^8 r^2 R^2+720 l^6 r^4 R^2-1410 l^4 r^6 R^2+1030 l^2 r^8 R^2-535 r^{10} R^2-93 l^8 r R^3+1520 l^6 r^3 R^3-4762 l^4 r^5 R^3+5608 l^2 r^7 R^3-3121 r^9 R^3-16 l^8 R^4+1402 l^6 r^2 R^4-8850 l^4 r^4 R^4+16350 l^2 r^6 R^4-11398 r^8 R^4+518 l^6 r R^5-9378 l^4 r^3 R^5+29098 l^2 r^5 R^5-27598 r^7 R^5+49 l^6 R^6-5249 l^4 r^2 R^6+32659 l^2 r^4 R^6-45483 r^6 R^6-1276 l^4 r R^7+22504 l^2 r^3 R^7-51228 r^5 R^7-68 l^4 R^8+8600 l^2 r^2 R^8-38692 r^4 R^8+1432 l^2 r R^9-18584 r^3 R^9+36 l^2 R^{10}-5036 r^2 R^{10}-576 r R^{11}\right)\right) \Big/ \left(\left(2 l^2 r-2 r^3+l^2 R-7 r^2 R-7 r R^2\right)^2 \left(l^2 r+r^3-l^2 R+3 r^2 R+2 r R^2+2 R^3\right)^2\right)\Big\}$$

$$\left\{X60,\ \text{ISOGONAL CONJUGATE OF } X(12),\ X92,\right.$$

$$\text{CEVAPOINT OF INCENTER AND CLAWSON POINT},\ \frac{1}{\left(l^2+r^2-4 R^2\right)^2 \left(2 l^2 r-2 r^3+l^2 R-7 r^2 R-7 r R^2\right)^2}$$

$$\left(2 l^{10} r^2+6 l^8 r^4+4 l^6 r^6-4 l^4 r^8-6 l^2 r^{10}-2 r^{12}+3 l^{10} r R-69 l^8 r^3 R+142 l^6 r^5 R-186 l^4 r^7 R+63 l^2 r^9 R-49 r^{11} R+l^{10} R^2-112 l^8 r^2 R^2+734 l^6 r^4 R^2-1436 l^4 r^6 R^2+1065 l^2 r^8 R^2-492 r^{10} R^2-56 l^8 r R^3+1428 l^6 r^3 R^3-4796 l^4 r^5 R^3+5580 l^2 r^7 R^3-2732 r^9 R^3-8 l^8 R^4+1024 l^6 r^2 R^4-8304 l^4 r^4 R^4+15440 l^2 r^6 R^4-9400 r^8 R^4+272 l^6 r R^5-7456 l^4 r^3 R^5+25136 l^2 r^5 R^5-21056 r^7 R^5+16 l^6 R^6-2944 l^4 r^2 R^6+24016 l^2 r^4 R^6-31056 r^6 R^6-384 l^4 r R^7+12160 l^2 r^3 R^7-29376 r^5 R^7+2304 l^2 r^2 R^8-16320 r^4 R^8-4096 r^3 R^9\right)\Big\}$$

$$\left\{X60,\ \text{ISOGONAL CONJUGATE OF } X(12),\ X93,\ \text{ISOGONAL CONJUGATE OF } X(49),\right.$$

$$\left(2 l^{14} r^2+10 l^{12} r^4+18 l^{10} r^6+10 l^8 r^8-10 l^6 r^{10}-18 l^4 r^{12}-10 l^2 r^{14}-2 r^{16}+3 l^{14} r R-39 l^{12} r^3 R-105 l^{10} r^5 R-27 l^8 r^7 R+57 l^6 r^9 R-69 l^4 r^{11} R-147 l^2 r^{13} R-57 r^{15} R+l^{14} R^2-94 l^{12} r^2 R^2-73 l^{10} r^4 R^2+1224 l^8 r^6 R^2-1409 l^6 r^8 R^2+1162 l^4 r^{10} R^2-1047 l^2 r^{12} R^2-724 r^{14} R^2-58 l^{12} r R^3+696 l^{10} r^3 R^3+4334 l^8 r^5 R^3-12544 l^6 r^7 R^3+12802 l^4 r^9 R^3-5176 l^2 r^{11} R^3-5430 r^{13} R^3-10 l^{12} R^4+886 l^{10} r^2 R^4+3424 l^8 r^4 R^4-39812 l^6 r^6 R^4+59942 l^4 r^8 R^4-20786 l^2 r^{10} R^4-26812 r^{12} R^4+332 l^{10} r R^5-1832 l^8 r^3 R^5-59960 l^6 r^5 R^5+161152 l^4 r^7 R^5-68468 l^2 r^9 R^5-91832 r^{11} R^5+32 l^{10} R^6-2606 l^8 r^2 R^6-41816 l^6 r^4 R^6+264892 l^4 r^6 R^6-173016 l^2 r^8 R^6-223390 r^{10} R^6-700 l^8 r R^7-9496 l^6 r^3 R^7+262592 l^4 r^5 R^7-313896 l^2 r^7 R^7-387396 r^9 R^7-34 l^8 R^8+1104 l^6 r^2 R^8+145636 l^4 r^4 R^8-387472 l^2 r^6 R^8-471490 r^8 R^8+433 l^6 r R^9+38499 l^4 r^3 R^9-305869 l^2 r^5 R^9-386111 r^7 R^9+7 l^6 R^{10}+3788 l^4 r^2 R^{10}-140141 l^2 r^4 R^{10}-193698 r^6 R^{10}+46 l^4 r R^{11}-31584 l^2 r^3 R^{11}-45918 r^5 R^{11}+4 l^4 R^{12}-2904 l^2 r^2 R^{12}+1196 r^4 R^{12}-56 l^2 r R^{13}+1984 r^3 R^{13}+196 r^2 R^{14}\right) \Big/ \left(\left(2 l^2 r-2 r^3+l^2 R-7 r^2 R-7 r R^2\right)^2 \left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-8 l^2 R^2+24 r^2 R^2+32 r R^3+13 R^4\right)^2\right)\Big\}$$

{X60, ISOGONAL CONJUGATE OF X(12), X94, ISOGONAL CONJUGATE OF X(50),

$$\left(2 l^{14} r^2 + 10 l^{12} r^4 + 18 l^{10} r^6 + 10 l^8 r^8 - 10 l^6 r^{10} - 18 l^4 r^{12} - 10 l^2 r^{14} - 2 r^{16} + 3 l^{14} r R - 39 l^{12} r^3 R - 105 l^{10} r^5 R - 27 l^8 r^7 R + 57 l^6 r^9 R - 69 l^4 r^{11} R - 147 l^2 r^{13} R - 57 r^{15} R + l^{14} R^2 - 94 l^{12} r^2 R^2 - 73 l^{10} r^4 R^2 + 1224 l^8 r^6 R^2 - 1409 l^6 r^8 R^2 + 1162 l^4 r^{10} R^2 - 1047 l^2 r^{12} R^2 - 724 r^{14} R^2 - 62 l^{12} r R^3 + 696 l^{10} r^3 R^3 + 4362 l^8 r^5 R^3 - 12512 l^6 r^7 R^3 + 12790 l^4 r^9 R^3 - 5208 l^2 r^{11} R^3 - 5442 r^{13} R^3 - 12 l^{12} R^4 + 982 l^{10} r^2 R^4 + 3382 l^8 r^4 R^4 - 39892 l^6 r^6 R^4 + 60048 l^4 r^8 R^4 - 20994 l^2 r^{10} R^4 - 27066 r^{12} R^4 + 432 l^{10} r R^5 - 2500 l^8 r^3 R^5 - 60080 l^6 r^5 R^5 + 161960 l^4 r^7 R^5 - 68640 l^2 r^9 R^5 - 94212 r^{11} R^5 + 54 l^{10} R^6 - 3894 l^8 r^2 R^6 - 40564 l^6 r^4 R^6 + 267604 l^4 r^6 R^6 - 170978 l^2 r^8 R^6 - 236350 r^{10} R^6 - 1350 l^8 r R^7 - 5352 l^6 r^3 R^7 + 267692 l^4 r^5 R^7 - 306696 l^2 r^7 R^7 - 432726 r^9 R^7 - 108 l^8 R^8 + 5652 l^6 r^2 R^8 + 150084 l^4 r^4 R^8 - 379716 l^2 r^6 R^8 - 577736 r^8 R^8 + 1917 l^6 r R^9 + 37719 l^4 r^3 R^9 - 309801 l^2 r^5 R^9 - 554691 r^7 R^9 + 81 l^6 R^{10} + 324 l^4 r^2 R^{10} - 155547 l^2 r^4 R^{10} - 371646 r^6 R^{10} - 972 l^4 r R^{11} - 42660 l^2 r^3 R^{11} - 164520 r^5 R^{11} - 4860 l^2 r^2 R^{12} - 43308 r^4 R^{12} - 5184 r^3 R^{13}\right) \Big/ \left(\left(2 l^2 r - 2 r^3 + l^2 R - 7 r^2 R - 7 r R^2\right)^2 \left(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 12 l^2 R^2 + 28 r^2 R^2 + 48 r R^3 + 27 R^4\right)^2\right)\}$$

{X60, ISOGONAL CONJUGATE OF X(12), X95, CEVAPOINT OF CENTROID AND CIRCUMCENTER,

$$\left(2 l^{14} r^2 + 42 l^{12} r^4 + 114 l^{10} r^6 + 74 l^8 r^8 - 74 l^6 r^{10} - 114 l^4 r^{12} - 42 l^2 r^{14} - 2 r^{16} + 3 l^{14} r R + 9 l^{12} r^3 R - 569 l^{10} r^5 R - 315 l^8 r^7 R + 409 l^6 r^9 R - 597 l^4 r^{11} R - 803 l^2 r^{13} R - 57 r^{15} R + l^{14} R^2 - 82 l^{12} r^2 R^2 - 1137 l^{10} r^4 R^2 + 3244 l^8 r^6 R^2 - 3953 l^6 r^8 R^2 + 2078 l^4 r^{10} R^2 - 6783 l^2 r^{12} R^2 - 728 r^{14} R^2 - 56 l^{12} r R^3 + 248 l^{10} r^3 R^3 + 10768 l^8 r^5 R^3 - 25936 l^6 r^7 R^3 + 26280 l^4 r^9 R^3 - 32936 l^2 r^{11} R^3 - 5504 r^{13} R^3 - 8 l^{12} R^4 + 848 l^{10} r^2 R^4 + 6896 l^8 r^4 R^4 - 55712 l^6 r^6 R^4 + 95320 l^4 r^8 R^4 - 100720 l^2 r^{10} R^4 - 27392 r^{12} R^4 + 272 l^{10} r R^5 - 2576 l^8 r^3 R^5 - 55216 l^6 r^5 R^5 + 178608 l^4 r^7 R^5 - 201248 l^2 r^9 R^5 - 94304 r^{11} R^5 + 16 l^{10} R^6 - 2624 l^8 r^2 R^6 - 20176 l^6 r^4 R^6 + 194912 l^4 r^6 R^6 - 267040 l^2 r^8 R^6 - 229376 r^{10} R^6 - 384 l^8 r R^7 + 3200 l^6 r^3 R^7 + 127872 l^4 r^5 R^7 - 240768 l^2 r^7 R^7 - 394496 r^9 R^7 + 1920 l^6 r^2 R^8 + 44672 l^4 r^4 R^8 - 156928 l^2 r^6 R^8 - 470528 r^8 R^8 + 3584 l^4 r^3 R^9 - 77568 l^2 r^5 R^9 - 370944 r^7 R^9 - 22272 l^2 r^4 R^{10} - 174080 r^6 R^{10} - 36864 r^5 R^{11}\right) \Big/ \left(\left(2 l^2 r - 2 r^3 + l^2 R - 7 r^2 R - 7 r R^2\right)^2 \left(l^4 + 18 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 4 l^2 R^2 + 20 r^2 R^2 + 16 r R^3\right)^2\right)\}$$

{X60, ISOGONAL CONJUGATE OF X(12), X96, ISOGONAL CONJUGATE OF X(52),

$$-\left(\left(2 l^{14} r^2 - 22 l^{12} r^4 - 78 l^{10} r^6 - 54 l^8 r^8 + 54 l^6 r^{10} + 78 l^4 r^{12} + 22 l^2 r^{14} - 2 r^{16} + 3 l^{14} r R - 87 l^{12} r^3 R + 359 l^{10} r^5 R + 261 l^8 r^7 R - 295 l^6 r^9 R + 459 l^4 r^{11} R + 509 l^2 r^{13} R - 57 r^{15} R + l^{14} R^2 - 134 l^{12} r^2 R^2 + 1719 l^{10} r^4 R^2 - 3264 l^8 r^6 R^2 + 2879 l^6 r^8 R^2 - 2222 l^4 r^{10} R^2 + 5417 l^2 r^{12} R^2 - 748 r^{14} R^2 - 74 l^{12} r R^3 + 2580 l^{10} r^3 R^3 - 16534 l^8 r^5 R^3 + 30104 l^6 r^7 R^3 - 32918 l^4 r^9 R^3 + 34708 l^2 r^{11} R^3 - 5962 r^{13} R^3 - 12 l^{12} R^4 + 1844 l^{10} r^2 R^4 - 27944 l^8 r^4 R^4 + 101960 l^6 r^6 R^4 - 156220 l^4 r^8 R^4 + 147908 l^2 r^{10} R^4 - 32080 r^{12} R^4 + 568 l^{10} r R^5 - 23144 l^8 r^3 R^5 + 173984 l^6 r^5 R^5 - 408256 l^4 r^7 R^5 + 438760 l^2 r^9 R^5 - 122648 r^{11} R^5 + 56 l^{10} R^6 - 10036 l^8 r^2 R^6 + 165040 l^6 r^4 R^6 - 656344 l^4 r^6 R^6 + 922456 l^2 r^8 R^6 - 341940 r^{10} R^6 - 1984 l^8 r R^7 + 88880 l^6 r^3 R^7 - 666448 l^4 r^5 R^7 + 1374032 l^2 r^7 R^7 - 702832 r^9 R^7 - 128 l^8 R^8 + 26000 l^6 r^2 R^8 - 422512 l^4 r^4 R^8 + 1430448 l^2 r^6 R^8 - 1064528 r^8 R^8 + 3472 l^6 r R^9 - 160304 l^4 r^3 R^9 + 1012784 l^2 r^5 R^9 - 1175056 r^7 R^9 + 144 l^6 R^{10} - 33024 l^4 r^2 R^{10} + 466320 l^2 r^4 R^{10} - 924320 r^6 R^{10} - 2912 l^4 r R^{11} + 129408 l^2 r^3 R^{11} - 499360 r^5 R^{11} - 64 l^4 R^{12} + 18560 l^2 r^2 R^{12} - 174528 r^4 R^{12} + 896 l^2 r R^{13} - 35328 r^3 R^{13} - 3136 r^2 R^{14}\right) \Big/ \left(\left(2 l^2 r - 2 r^3 + l^2 R - 7 r^2 R - 7 r R^2\right)^2 \left(l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2 - 4 R^4\right)^2\right)\right)\}$$

{X60, ISOGONAL CONJUGATE OF X(12), X97, ISOGONAL CONJUGATE OF X(53),

$$\left(R^2 \left(2 l^{12} r^2 - 4 l^{10} r^4 - 34 l^8 r^6 - 56 l^6 r^8 - 34 l^4 r^{10} - 4 l^2 r^{12} + 2 r^{14} + l^{12} r R - 26 l^{10} r^3 R - 9 l^8 r^5 R - 76 l^6 r^7 R - 193 l^4 r^9 R - 58 l^2 r^{11} R + 41 r^{13} R - 42 l^{10} r^2 R^2 + 222 l^8 r^4 R^2 - 116 l^6 r^6 R^2 - 180 l^4 r^8 R^2 - 450 l^2 r^{10} R^2 + 374 r^{12} R^2 - 9 l^{10} r R^3 + 381 l^8 r^3 R^3 - 1122 l^6 r^5 R^3 + 1394 l^4 r^7 R^3 - 2261 l^2 r^9 R^3 + 2001 r^{11} R^3 + l^{10} R^4 + 258 l^8 r^2 R^4 - 2294 l^6 r^4 R^4 + 5628 l^4 r^6 R^4 - 7395 l^2 r^8 R^4 + 6954 r^{10} R^4 + 4 l^8 r R^5 - 1724 l^6 r^3 R^5 + 9388 l^4 r^5 R^5 - 15524 l^2 r^7 R^5 + 16368 r^9 R^5 - 8 l^8 R^6 - 548 l^6 r^2 R^6 + 7684 l^4 r^4 R^6 - 20508 l^2 r^6 R^6 + 26244 r^8 R^6 + 112 l^6 r R^7 + 3024 l^4 r^3 R^7 - 16496 l^2 r^5 R^7 + 27760 r^7 R^7 + 16 l^6 R^8 + 544 l^4 r^2 R^8 - 7984 l^2 r^4 R^8 + 17408 r^6 R^8 - 192 l^4 r R^9 - 2880 l^2 r^3 R^9 + 4096 r^5 R^9 - 960 l^2 r^2 R^{10} - 1728 r^4 R^{10} - 1024 r^3 R^{11}\right)\right) \Big/ \left(\left(2 l^2 r - 2 r^3 + l^2 R - 7 r^2 R - 7 r R^2\right)^2 \left(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 7 l^2 R^2 + 23 r^2 R^2 + 28 r R^3 + 12 R^4\right)^2\right)\}$$

$$\{X60,\ \text{ISOGONAL CONJUGATE OF } X(12),\ X98,\ \text{TarryPoint},$$
$$-\Big(\big(2 l^{10} r^2 + 6 l^8 r^4 + 4 l^6 r^6 - 4 l^4 r^8 - 6 l^2 r^{10} - 2 r^{12} + 3 l^{10} r R - 29 l^8 r^3 R - 18 l^6 r^5 R + 22 l^4 r^7 R - 33 l^2 r^9 R - 41 r^{11} R + l^{10} R^2 - 72 l^8 r^2 R^2 + 214 l^6 r^4 R^2 - 228 l^4 r^6 R^2 + 145 l^2 r^8 R^2 - 364 r^{10} R^2 - 38 l^8 r R^3 + 616 l^6 r^3 R^3 - 1508 l^4 r^5 R^3 + 1640 l^2 r^7 R^3 - 1830 r^9 R^3 - 4 l^8 R^4 + 464 l^6 r^2 R^4 - 3136 l^4 r^4 R^4 + 5600 l^2 r^6 R^4 - 5708 r^8 R^4 + 88 l^6 r R^5 - 2608 l^4 r^3 R^5 + 9320 l^2 r^5 R^5 - 11\,344 r^7 R^5 - 708 l^4 r^2 R^6 + 7688 l^2 r^4 R^6 - 14\,084 r^6 R^6 + 2464 l^2 r^3 R^7 - 10\,016 r^5 R^7 - 3136 r^4 R^8\big) \Big/ \big(\big(2 l^2 r - 2 r^3 + l^2 R - 7 r^2 R - 7 r R^2\big)^2 \big(l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\big)\big)\Big)\}$$

$$\{X60,\ \text{ISOGONAL CONJUGATE OF } X(12),\ X99,\ \text{STEINER POINT},\ \Big(\big(l^2 + r^2 + 2 r R\big)^2 \big(2 l^6 r^2 + 2 l^4 r^4 - 2 l^2 r^6 - 2 r^8 + 3 l^6 r R - 43 l^4 r^3 R + 49 l^2 r^5 R - 33 r^7 R + l^6 R^2 - 74 l^4 r^2 R^2 + 305 l^2 r^4 R^2 - 212 r^6 R^2 - 28 l^4 r R^3 + 512 l^2 r^3 R^3 - 660 r^5 R^3 + 228 l^2 r^2 R^4 - 992 r^4 R^4 - 576 r^3 R^5\big)\Big) \Big/ \big(\big(2 l^2 r - 2 r^3 + l^2 R - 7 r^2 R - 7 r R^2\big)^2 \big(l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\big)\big)\}$$

$$\{X60,\ \text{ISOGONAL CONJUGATE OF } X(12),\ X100,\ \text{ANTICOMPLEMENT OF FEUERBACH POINT},$$
$$\Big(R \big(-2 l^6 r^2 - 2 l^4 r^4 + 2 l^2 r^6 + 2 r^8 - 3 l^6 r R + 39 l^4 r^3 R - 57 l^2 r^5 R + 29 r^7 R - l^6 R^2 + 64 l^4 r^2 R^2 - 245 l^2 r^4 R^2 + 154 r^6 R^2 + 24 l^4 r R^3 - 344 l^2 r^3 R^3 + 400 r^5 R^3 - 144 l^2 r^2 R^4 + 508 r^4 R^4 + 256 r^3 R^5\big)\Big) \Big/ \big((2 r - R) \big(-2 l^2 r + 2 r^3 - l^2 R + 7 r^2 R + 7 r R^2\big)^2\big)\}$$

$$\Big\{X61,\ \text{ISOGONAL CONJUGATE OF } X(17),\ X62,\ \text{ISOGONAL CONJUGATE OF } X(18),\ \frac{48 l^2 r^2 R^2 \big(l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\big)}{\big(3 l^4 - 10 l^2 r^2 + 3 r^4 - 24 l^2 r R + 24 r^3 R + 48 r^2 R^2\big)^2}\Big\}$$

$$\Big\{X61,\ \text{ISOGONAL CONJUGATE OF } X(17),\ X63,$$
$$\text{ISOGONAL CONJUGATE OF } X(19),\ -\frac{1}{(r+R)^2 \big(3 l^2 + 2\sqrt{3}\, l r - 3 r^2 - 12 r R\big)^2}$$
$$3 R \big(-6 l^6 r - 6\sqrt{3}\, l^5 r^2 + 8 l^4 r^3 + 8\sqrt{3}\, l^3 r^4 - 2 l^2 r^5 - 2\sqrt{3}\, l r^6 - 3 l^6 R - 2\sqrt{3}\, l^5 r R + 81 l^4 r^2 R + 56\sqrt{3}\, l^3 r^3 R - 25 l^2 r^4 R - 22\sqrt{3}\, l r^5 R + 3 r^6 R + 60 l^4 r R^2 + 48\sqrt{3}\, l^3 r^2 R^2 - 192 l^2 r^3 R^2 - 80\sqrt{3}\, l r^4 R^2 + 36 r^5 R^2 - 208 l^2 r^2 R^3 - 96\sqrt{3}\, l r^3 R^3 + 144 r^4 R^3 + 192 r^3 R^4\big)\Big\}$$

$$\Big\{X61,\ \text{ISOGONAL CONJUGATE OF } X(17),\ X64,\ \text{ISOGONAL CONJUGATE OF } X(20),$$
$$\frac{1}{(1 - r - 2 R)^2 (1 + r + 2 R)^2 \big(3 l^2 + 2\sqrt{3}\, l r - 3 r^2 - 12 r R\big)^2}$$
$$12 R^2 \big(9 l^8 + 8\sqrt{3}\, l^7 r - 43 l^6 r^2 - 24\sqrt{3}\, l^5 r^3 + 72 l^4 r^4 + 24\sqrt{3}\, l^3 r^5 - 43 l^2 r^6 - 8\sqrt{3}\, l r^7 + 9 r^8 - 144 l^6 r R - 96\sqrt{3}\, l^5 r^2 R + 488 l^4 r^3 R + 192\sqrt{3}\, l^3 r^4 R - 488 l^2 r^5 R - 96\sqrt{3}\, l r^6 R + 144 r^7 R - 84 l^6 R^2 - 80\sqrt{3}\, l^5 r R^2 + 1156 l^4 r^2 R^2 + 560\sqrt{3}\, l^3 r^3 R^2 - 2132 l^2 r^4 R^2 - 464\sqrt{3}\, l r^5 R^2 + 948 r^6 R^2 + 1008 l^4 r R^3 + 640\sqrt{3}\, l^3 r^2 R^3 - 4480 l^2 r^3 R^3 - 1152\sqrt{3}\, l r^4 R^3 + 3312 r^5 R^3 + 192 l^4 R^4 + 192\sqrt{3}\, l^3 r R^4 - 4416 l^2 r^2 R^4 - 1472\sqrt{3}\, l r^3 R^4 + 6528 r^4 R^4 - 1536 l^2 r R^5 - 768\sqrt{3}\, l r^2 R^5 + 6912 r^3 R^5 + 3072 r^2 R^6\big)\Big\}$$

$$\Big\{X61,\ \text{ISOGONAL CONJUGATE OF } X(17),\ X65,\ \text{ORTHOCENTER OF THE INTOUCH TRIANGLE},$$
$$-\Big(\Big(3 r^2 \big(-\sqrt{3}\, l + r + 4 R\big) \big(-2\sqrt{3}\, l^3 r - 10 l^2 r^2 - 2\sqrt{3}\, l r^3 + 6 r^4 - \sqrt{3}\, l^3 R - 17 l^2 r R - \sqrt{3}\, l r^2 R + 39 r^3 R - 4 l^2 R^2 + 4\sqrt{3}\, l r R^2 + 72 r^2 R^2 + 48 r R^3\big)\Big) \Big/ \Big(R \big(3 l^2 + 2\sqrt{3}\, l r - 3 r^2 - 12 r R\big)^2\Big)\Big)\}$$

$$\Big\{\text{X61, ISOGONAL CONJUGATE OF X(17), X66, ISOGONAL CONJUGATE OF X(22)},$$

$$-\Big(\Big(3\Big(2\sqrt{3}\,l^{13}r-20\,l^{12}r^2-36\sqrt{3}\,l^{11}r^3+84\,l^{10}r^4+126\sqrt{3}\,l^9r^5-152\,l^8r^6-184\sqrt{3}\,l^7r^7+$$
$$152\,l^6r^8+126\sqrt{3}\,l^5r^9-84\,l^4r^{10}-36\sqrt{3}\,l^3r^{11}+20\,l^2r^{12}+2\sqrt{3}\,l\,r^{13}-48\sqrt{3}\,l^{11}r^2R+$$
$$400\,l^{10}r^3R+624\sqrt{3}\,l^9r^4R-1408\,l^8r^5R-1632\sqrt{3}\,l^7r^6R+2016\,l^6r^7R+1632\sqrt{3}\,l^5r^8R-$$
$$1408\,l^4r^9R-624\sqrt{3}\,l^3r^{10}R+400\,l^2r^{11}R+48\sqrt{3}\,l\,r^{12}R+3\,l^{12}R^2-12\sqrt{3}\,l^{11}r\,R^2+$$
$$214\,l^{10}r^2R^2+748\sqrt{3}\,l^9r^3R^2-3971\,l^8r^4R^2-4968\sqrt{3}\,l^7r^5R^2+9940\,l^6r^6R^2+$$
$$8232\sqrt{3}\,l^5r^7R^2-9603\,l^4r^8R^2-4492\sqrt{3}\,l^3r^9R^2+3414\,l^2r^{10}R^2+492\sqrt{3}\,l\,r^{11}R^2+$$
$$3\,r^{12}R^2-72\,l^{10}r\,R^3+240\sqrt{3}\,l^9r^2R^3-3352\,l^8r^3R^3-6016\sqrt{3}\,l^7r^4R^3+22\,320\,l^6r^5R^3+$$
$$20\,256\sqrt{3}\,l^5r^6R^3-34\,096\,l^4r^7R^3-17\,280\sqrt{3}\,l^3r^8R^3+16\,152\,l^2r^9R^3+2800\sqrt{3}\,l\,r^{10}R^3+$$
$$72\,r^{11}R^3-12\,l^{10}R^4+16\sqrt{3}\,l^9r\,R^4-148\,l^8r^2R^4-2592\sqrt{3}\,l^7r^3R^4+21\,800\,l^6r^4R^4+$$
$$24\,736\sqrt{3}\,l^5r^5R^4-66\,440\,l^4r^6R^4-37\,920\sqrt{3}\,l^3r^7R^4+45\,860\,l^2r^8R^4+9616\sqrt{3}\,l\,r^9R^4+$$
$$732\,r^{10}R^4+240\,l^8r\,R^5-256\sqrt{3}\,l^7r^2R^5+6336\,l^6r^3R^5+13\,312\sqrt{3}\,l^5r^4R^5-$$
$$67\,680\,l^4r^5R^5-46\,592\sqrt{3}\,l^3r^6R^5+78\,528\,l^2r^7R^5+20\,224\sqrt{3}\,l\,r^8R^5+4080\,r^9R^5-$$
$$688\,l^6r^2R^6+2112\sqrt{3}\,l^5r^3R^6-29\,536\,l^4r^4R^6-28\,736\sqrt{3}\,l^3r^5R^6+76\,368\,l^2r^6R^6+$$
$$25\,088\sqrt{3}\,l\,r^7R^6+13\,440\,r^8R^6-2176\,l^4r^3R^7-6400\sqrt{3}\,l^3r^4R^7+35\,456\,l^2r^5R^7+$$
$$16\,384\sqrt{3}\,l\,r^6R^7+26\,112\,r^7R^7+4352\,l^2r^4R^8+4096\sqrt{3}\,l\,r^5R^8+27\,648\,r^6R^8+12\,288\,r^5R^9\Big)\Big)\Big/$$
$$\Big((1-r-2R)^2(1+r+2R)^2\left(3l^2+2\sqrt{3}\,l\,r-3r^2-12rR\right)^2\left(l^2-r^2-4rR)^2\right)\Big)\Big\}$$

$$\Big\{\text{X61, ISOGONAL CONJUGATE OF X(17), X67, ISOGONAL CONJUGATE OF X(23)},$$

$$\Big(3\Big(3\,l^{12}+38\,l^{10}r^2+64\sqrt{3}\,l^9r^3-131\,l^8r^4-192\sqrt{3}\,l^7r^5+180\,l^6r^6+192\sqrt{3}\,l^5r^7-$$
$$131\,l^4r^8-64\sqrt{3}\,l^3r^9+38\,l^2r^{10}+3\,r^{12}-72\,l^{10}r\,R-536\,l^8r^3R-768\sqrt{3}\,l^7r^4R+$$
$$1584\,l^6r^5R+1536\sqrt{3}\,l^5r^6R-1584\,l^4r^7R-768\sqrt{3}\,l^3r^8R+536\,l^2r^9R+72\,r^{11}R-$$
$$12\,l^{10}R^2+228\,l^8r^2R^2-480\sqrt{3}\,l^7r^3R^2+3744\,l^6r^4R^2+4032\sqrt{3}\,l^5r^5R^2-6912\,l^4r^6R^2-$$
$$3552\sqrt{3}\,l^3r^7R^2+2988\,l^2r^8R^2+732\,r^{10}R^2+240\,l^8r\,R^3+1824\,l^6r^3R^3+3840\sqrt{3}\,l^5r^4R^3-$$
$$13\,472\,l^4r^5R^3-7936\sqrt{3}\,l^3r^6R^3+8480\,l^2r^7R^3+4080\,r^9R^3-660\,l^6r^2R^4+864\sqrt{3}\,l^5r^3R^4-$$
$$11\,304\,l^4r^4R^4-8544\sqrt{3}\,l^3r^5R^4+13\,292\,l^2r^6R^4+13\,440\,r^8R^4-2400\,l^4r^3R^5-$$
$$3456\sqrt{3}\,l^3r^4R^5+11\,616\,l^2r^5R^5+26\,112\,r^7R^5+4800\,l^2r^4R^6+27\,648\,r^6R^6+12\,288\,r^5R^7\Big)\Big)\Big/$$
$$\Big(\left(3l^2+2\sqrt{3}\,l\,r-3r^2-12rR\right)^2\left(l^2-r^2-4rR)^2\left(2l^2-2r^2-8rR-9R^2\right)\right)\Big)\Big\}$$

$$\Big\{\text{X61, ISOGONAL CONJUGATE OF X(17), X68, PRASOLOV POINT},$$

$$-\frac{1}{(1-r-2R)^2(1+r+2R)^2\left(3l^2+2\sqrt{3}\,l\,r-3r^2-12rR\right)^2}$$
$$3\Big(2\sqrt{3}\,l^9r-20\,l^8r^2-32\sqrt{3}\,l^7r^3+44\,l^6r^4+60\sqrt{3}\,l^5r^5-44\,l^4r^6-32\sqrt{3}\,l^3r^7+20\,l^2r^8+$$
$$2\sqrt{3}\,l\,r^9-32\sqrt{3}\,l^7r^2R+240\,l^6r^3R+288\sqrt{3}\,l^5r^4R-416\,l^4r^5R-288\sqrt{3}\,l^3r^6R+$$
$$240\,l^2r^7R+32\sqrt{3}\,l\,r^8R-3\,l^8R^2-20\sqrt{3}\,l^7r\,R^2+212\,l^6r^2R^2+428\sqrt{3}\,l^5r^3R^2-1298\,l^4r^4R^2-$$
$$1004\sqrt{3}\,l^3r^5R^2+1172\,l^2r^6R^2+212\sqrt{3}\,l\,r^7R^2-3\,r^8R^2+48\,l^6r\,R^3+240\sqrt{3}\,l^5r^2R^3-$$
$$1744\,l^4r^3R^3-1696\sqrt{3}\,l^3r^4R^3+3024\,l^2r^5R^3+752\sqrt{3}\,l\,r^6R^3-48\,r^7R^3+12\,l^6R^4+56\sqrt{3}\,l^5r\,R^4-$$
$$868\,l^4r^2R^4-1328\sqrt{3}\,l^3r^3R^4+4356\,l^2r^4R^4+1528\sqrt{3}\,l\,r^5R^4-300\,r^6R^4-144\,l^4r\,R^5-$$
$$448\sqrt{3}\,l^3r^2R^5+3232\,l^2r^3R^5+1728\sqrt{3}\,l\,r^4R^5-912\,r^5R^5-12\,l^4R^6-48\sqrt{3}\,l^3r\,R^6+$$
$$1032\,l^2r^2R^6+944\sqrt{3}\,l\,r^3R^6-1356\,r^4R^6+96\,l^2r\,R^7+192\sqrt{3}\,l\,r^2R^7-864\,r^3R^7-192\,r^2R^8\Big)\Big\}$$

$$\left\{X61,\ \text{ISOGONAL CONJUGATE OF } X(17),\ X69,\ \text{SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},\right.$$

$$\frac{1}{\left(3 l^2+2\sqrt{3}\, l\, r-3 r^2-12 r R\right)^2 \left(l^2-r^2-4 r R\right)^2}$$

$$3\left(3 l^{10}+2\sqrt{3}\, l^9 r+21 l^8 r^2+32\sqrt{3}\, l^7 r^3-46 l^6 r^4-68\sqrt{3}\, l^5 r^5+46 l^4 r^6+32\sqrt{3}\, l^3 r^7-21 l^2 r^8+\right.$$
$$2\sqrt{3}\, l\, r^9-3 r^{10}-60 l^8 r R-32\sqrt{3}\, l^7 r^2 R-192 l^6 r^3 R-224\sqrt{3}\, l^5 r^4 R+376 l^4 r^5 R+$$
$$224\sqrt{3}\, l^3 r^6 R-192 l^2 r^7 R+32\sqrt{3}\, l\, r^8 R-60 r^9 R+160 l^6 r^2 R^2-96\sqrt{3}\, l^5 r^3 R^2+736 l^4 r^4 R^2+$$
$$544\sqrt{3}\, l^3 r^5 R^2-608 l^2 r^6 R^2+192\sqrt{3}\, l\, r^7 R^2-480 r^8 R^2+640 l^4 r^3 R^3+640\sqrt{3}\, l^3 r^4 R^3-$$
$$\left.\left.1024 l^2 r^5 R^3+512\sqrt{3}\, l\, r^6 R^3-1920 r^7 R^3-1280 l^2 r^4 R^4+512\sqrt{3}\, l\, r^5 R^4-3840 r^6 R^4-3072 r^5 R^5\right)\right\}$$

$$\left\{X61,\ \text{ISOGONAL CONJUGATE OF } X(17),\ X70,\ \text{ISOGONAL CONJUGATE OF } X(26),\right.$$
$$-\left(\left(3\left(2\sqrt{3}\, l^{13} r-20 l^{12} r^2-36\sqrt{3}\, l^{11} r^3+84 l^{10} r^4+126\sqrt{3}\, l^9 r^5-152 l^8 r^6-184\sqrt{3}\, l^7 r^7+\right.\right.\right.$$
$$152 l^6 r^8+126\sqrt{3}\, l^5 r^9-84 l^4 r^{10}-36\sqrt{3}\, l^3 r^{11}+20 l^2 r^{12}+2\sqrt{3}\, l\, r^{13}-48\sqrt{3}\, l^{11} r^2 R+$$
$$400 l^{10} r^3 R+624\sqrt{3}\, l^9 r^4 R-1408 l^8 r^5 R-1632\sqrt{3}\, l^7 r^6 R+2016 l^6 r^7 R+1632\sqrt{3}\, l^5 r^8 R-$$
$$1408 l^4 r^9 R-624\sqrt{3}\, l^3 r^{10} R+400 l^2 r^{11} R+48\sqrt{3}\, l\, r^{12} R-24\sqrt{3}\, l^{11} r R^2+$$
$$296 l^{10} r^2 R^2+888\sqrt{3}\, l^9 r^3 R^2-4224 l^8 r^4 R^2-5328\sqrt{3}\, l^7 r^5 R^2+10288 l^6 r^6 R^2+$$
$$8592\sqrt{3}\, l^5 r^7 R^2-9856 l^4 r^8 R^2-4632\sqrt{3}\, l^3 r^9 R^2+3496 l^2 r^{10} R^2+504\sqrt{3}\, l\, r^{11} R^2+$$
$$480\sqrt{3}\, l^9 r^2 R^3-4736 l^8 r^3 R^3-7936\sqrt{3}\, l^7 r^4 R^3+25728 l^6 r^5 R^3+23616\sqrt{3}\, l^5 r^6 R^3-$$
$$37504 l^4 r^7 R^3-19200\sqrt{3}\, l^3 r^8 R^3+17536 l^2 r^9 R^3+3040\sqrt{3}\, l\, r^{10} R^3+3 l^{10} R^4+$$
$$108\sqrt{3}\, l^9 r R^4-1639 l^8 r^2 R^4-5504\sqrt{3}\, l^7 r^3 R^4+32790 l^6 r^4 R^4+36136\sqrt{3}\, l^5 r^5 R^4-$$
$$84246 l^4 r^6 R^4-48512\sqrt{3}\, l^3 r^7 R^4+55655 l^2 r^8 R^4+11628\sqrt{3}\, l\, r^9 R^4-3 r^{10} R^4-$$
$$60 l^8 r R^5-1728\sqrt{3}\, l^7 r^2 R^5+19728 l^6 r^3 R^5+30400\sqrt{3}\, l^5 r^4 R^5-113000 l^4 r^5 R^5-$$
$$76480\sqrt{3}\, l^3 r^6 R^5+115984 l^2 r^7 R^5+29376\sqrt{3}\, l\, r^8 R^5-60 r^9 R^5-18 l^8 R^6-224\sqrt{3}\, l^7 r R^6+$$
$$4512 l^6 r^2 R^6+13184\sqrt{3}\, l^5 r^3 R^6-86844 l^4 r^4 R^6-73984\sqrt{3}\, l^3 r^5 R^6+159200 l^2 r^6 R^6+$$
$$49504\sqrt{3}\, l\, r^7 R^6-498 r^8 R^6+288 l^6 r R^7+2688\sqrt{3}\, l^5 r^2 R^7-34464 l^4 r^3 R^7-$$
$$41600\sqrt{3}\, l^3 r^4 R^7+140320 l^2 r^5 R^7+54912\sqrt{3}\, l\, r^6 R^7-2208 r^7 R^7+27 l^6 R^8+$$
$$210\sqrt{3}\, l^5 r R^8-5877 l^4 r^2 R^8-12348\sqrt{3}\, l^3 r^3 R^8+74805 l^2 r^4 R^8+38610\sqrt{3}\, l\, r^5 R^8-$$
$$5595 r^6 R^8-324 l^4 r R^9-1680\sqrt{3}\, l^3 r^2 R^9+21528 l^2 r^3 R^9+16016\sqrt{3}\, l\, r^4 R^9-$$
$$8004 r^5 R^9-12 l^4 R^{10}-72\sqrt{3}\, l^3 r R^{10}+2760 l^2 r^2 R^{10}+3432\sqrt{3}\, l\, r^3 R^{10}-5916 r^4 R^{10}+$$
$$\left.\left.96 l^2 r R^{11}+288\sqrt{3}\, l\, r^2 R^{11}-1824 r^3 R^{11}-192 r^2 R^{12}\right)\right)\Big/\left(\left(3 l^2+2\sqrt{3}\, l\, r-3 r^2-12 r R\right)^2\right.$$
$$\left.\left.\left(l^4-2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-6 l^2 R^2+22 r^2 R^2+24 r R^3+7 R^4\right)^2\right)\right)\Big\}$$

$$\left\{X61,\ \text{ISOGONAL CONJUGATE OF } X(17),\ X71,\ \text{ISOGONAL CONJUGATE OF } X(27),\right.$$
$$\left(12 l^2 R^2\left(9 l^6+8\sqrt{3}\, l^5 r-37 l^4 r^2-24\sqrt{3}\, l^3 r^3-13 l^2 r^4+r^6-84 l^4 r R-64\sqrt{3}\, l^3 r^2 R-72 l^2 r^3 R+\right.\right.$$
$$\left.\left.12 r^5 R+12 l^4 R^2-16\sqrt{3}\, l^3 r R^2-176 l^2 r^2 R^2+52 r^4 R^2-192 l^2 r R^3+96 r^3 R^3+64 r^2 R^4\right)\right)\Big/$$
$$\left.\left(\left(3 l^2+2\sqrt{3}\, l\, r-3 r^2-12 r R\right)^2\left(l^2+r^2+6 r R+8 R^2\right)^2\right)\right\}$$

$$\left\{X61,\ \text{ISOGONAL CONJUGATE OF } X(17),\ X72,\right.$$
$$\text{ISOGONAL CONJUGATE OF } X(28),\ -\frac{1}{R\left(3 l^2+2\sqrt{3}\, l\, r-3 r^2-12 r R\right)^2}$$
$$3\left(-3 l^6 r-4\sqrt{3}\, l^5 r^2+5 l^4 r^3+8\sqrt{3}\, l^3 r^4-5 l^2 r^5-4\sqrt{3}\, l\, r^6+3 r^7-3 l^6 R-2\sqrt{3}\, l^5 r R+\right.$$
$$42 l^4 r^2 R+36\sqrt{3}\, l^3 r^3 R-55 l^2 r^4 R-34\sqrt{3}\, l\, r^5 R+36 r^6 R+60 l^4 r R^2+44\sqrt{3}\, l^3 r^2 R^2-$$
$$\left.\left.192 l^2 r^3 R^2-92\sqrt{3}\, l\, r^4 R^2+156 r^5 R^2-208 l^2 r^2 R^3-80\sqrt{3}\, l\, r^3 R^3+288 r^4 R^3+192 r^3 R^4\right)\right\}$$

$$\left\{\text{X61, ISOGONAL CONJUGATE OF X(17), X73, CROSSPOINT OF INCENTER AND CIRCUMCENTER,}\right.$$

$$\frac{1}{\left(3 l^2+2\sqrt{3}\, l\, r-3 r^2-12 r R\right)^2 \left(l^2+r^2-2 r R-4 R^2\right)^2}$$

$$12 r^2 R^2 \left(l^6-13 l^4 r^2+24\sqrt{3}\, l^3 r^3-37 l^2 r^4-8\sqrt{3}\, l r^5+9 r^6-16 l^4 r R+32\sqrt{3}\, l^3 r^2 R-80 l^2 r^3 R-\right.$$
$$64\sqrt{3}\, l r^4 R+96 r^5 R-20 l^4 R^2-32\sqrt{3}\, l^3 r R^2+128 l^2 r^2 R^2-144\sqrt{3}\, l r^3 R^2+324 r^4 R^2+$$
$$\left.\left.304 l^2 r R^3-32\sqrt{3}\, l r^2 R^3+240 r^3 R^3+64 l^2 R^4+128\sqrt{3}\, l r R^4-576 r^2 R^4-768 r R^5\right)\right\}$$

$$\left\{\text{X61, ISOGONAL CONJUGATE OF X(17), X74, ISOGONAL CONJUGATE OF EULER INFINITY POINT,}\right.$$

$$-\frac{1}{\left(3 l^2+2\sqrt{3}\, l\, r-3 r^2-12 r R\right)^2 \left(2 l^2-2 r^2-8 r R-9 R^2\right)}$$

$$3 R^2 \left(-27 l^6-18\sqrt{3}\, l^5 r+181 l^4 r^2+60\sqrt{3}\, l^3 r^3-181 l^2 r^4-18\sqrt{3}\, l r^5+27 r^6+324 l^4 r R+\right.$$
$$144\sqrt{3}\, l^3 r^2 R-1048 l^2 r^3 R-144\sqrt{3}\, l r^4 R+324 r^5 R+108 l^4 R^2+72\sqrt{3}\, l^3 r R^2-$$
$$\left.\left.1800 l^2 r^2 R^2-360\sqrt{3}\, l r^3 R^2+1404 r^4 R^2-864 l^2 r R^3-288\sqrt{3}\, l r^2 R^3+2592 r^3 R^3+1728 r^2 R^4\right)\right\}$$

$$\left\{\text{X61, ISOGONAL CONJUGATE OF X(17), X75,}\right.$$

$$\text{ISOTOMIC CONJUGATE OF INCENTER, } \frac{1}{\left(3 l^2+2\sqrt{3}\, l\, r-3 r^2-12 r R\right)^2 \left(l^2+r^2+4 r R\right)^2}$$

$$3 \left(3 l^{10}+2\sqrt{3}\, l^9 r+9 l^8 r^2+8\sqrt{3}\, l^7 r^3+6 l^6 r^4+12\sqrt{3}\, l^5 r^5-6 l^4 r^6+8\sqrt{3}\, l^3 r^7-9 l^2 r^8+\right.$$
$$2\sqrt{3}\, l r^9-3 r^{10}-60 l^8 r R-48\sqrt{3}\, l^7 r^2 R+64 l^6 r^3 R+128\sqrt{3}\, l^5 r^4 R-72 l^4 r^5 R-48\sqrt{3}\, l^3 r^6 R+$$
$$32\sqrt{3}\, l r^8 R-60 r^9 R+256 l^6 r^2 R^2+224\sqrt{3}\, l^5 r^3 R^2-640 l^4 r^4 R^2-480\sqrt{3}\, l^3 r^5 R^2+$$
$$544 l^2 r^6 R^2+192\sqrt{3}\, l r^7 R^2-480 r^8 R^2-1024 l^4 r^3 R^3-640\sqrt{3}\, l^3 r^4 R^3+2048 l^2 r^5 R^3+$$
$$\left.\left.512\sqrt{3}\, l r^6 R^3-1920 r^7 R^3+1792 l^2 r^4 R^4+512\sqrt{3}\, l r^5 R^4-3840 r^6 R^4-3072 r^5 R^5\right)\right\}$$

$$\left\{\text{X61, ISOGONAL CONJUGATE OF X(17), X76, 3rd BROCARD POINT,}\right.$$

$$\left(3 \left(3 l^{14}+2\sqrt{3}\, l^{13} r+15 l^{12} r^2+12\sqrt{3}\, l^{11} r^3+27 l^{10} r^4+30\sqrt{3}\, l^9 r^5+15 l^8 r^6+40\sqrt{3}\, l^7 r^7-15 l^6 r^8+\right.\right.$$
$$30\sqrt{3}\, l^5 r^9-27 l^4 r^{10}+12\sqrt{3}\, l^3 r^{11}-15 l^2 r^{12}+2\sqrt{3}\, l r^{13}-3 r^{14}-84 l^{12} r R-48\sqrt{3}\, l^{11} r^2 R-$$
$$216 l^{10} r^3 R-144\sqrt{3}\, l^9 r^4 R-108 l^8 r^5 R-96\sqrt{3}\, l^7 r^6 R+48 l^6 r^7 R+96\sqrt{3}\, l^5 r^8 R-108 l^4 r^9 R+$$
$$144\sqrt{3}\, l^3 r^{10} R-216 l^2 r^{11} R+48\sqrt{3}\, l r^{12} R-84 r^{13} R+688 l^{10} r^2 R^2+224\sqrt{3}\, l^9 r^3 R^2+$$
$$1232 l^8 r^4 R^2+1152\sqrt{3}\, l^7 r^5 R^2-672 l^6 r^6 R^2-960\sqrt{3}\, l^5 r^7 R^2+800 l^4 r^8 R^2+640\sqrt{3}\, l^3 r^9 R^2-$$
$$1040 l^2 r^{10} R^2+480\sqrt{3}\, l r^{11} R^2-1008 r^{12} R^2-1600 l^8 r^3 R^3+512\sqrt{3}\, l^7 r^4 R^3-5376 l^6 r^5 R^3-$$
$$4608\sqrt{3}\, l^5 r^6 R^3+5760 l^4 r^7 R^3+1536\sqrt{3}\, l^3 r^8 R^3-1280 l^2 r^9 R^3+2560\sqrt{3}\, l r^{10} R^3-$$
$$6720 r^{11} R^3-3840 l^6 r^4 R^4-4608\sqrt{3}\, l^5 r^5 R^4+14592 l^4 r^6 R^4+3072\sqrt{3}\, l^3 r^7 R^4+3840 l^2 r^8 R^4+$$
$$7680\sqrt{3}\, l r^9 R^4-26880 r^{10} R^4+17408 l^4 r^5 R^5+4096\sqrt{3}\, l^3 r^6 R^5+10240 l^2 r^7 R^5+$$
$$\left.\left.12288\sqrt{3}\, l r^8 R^5-64512 r^9 R^5+4096 l^2 r^6 R^6+8192\sqrt{3}\, l r^7 R^6-86016 r^8 R^6-49152 r^7 R^7\right)\right)\Big/$$
$$\left.\left.\left(3 l^2+2\sqrt{3}\, l\, r-3 r^2-12 r R\right)^2 \left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)^2\right)\right\}$$

$$\left\{\text{X61, ISOGONAL CONJUGATE OF X(17), X77,}\right.$$

$$\text{ISOGONAL CONJUGATE OF X(33), } -\frac{1}{\left(3 l^2+2\sqrt{3}\, l\, r-3 r^2-12 r R\right)^2 \left(l^2-r R-4 R^2\right)^2}$$

$$3 r^2 R \left(2\sqrt{3}\, l^7-2 l^6 r-8\sqrt{3}\, l^5 r^2+8 l^4 r^3+6\sqrt{3}\, l^3 r^4-6 l^2 r^5-19 l^6 R-46\sqrt{3}\, l^5 r R+121 l^4 r^2 R+\right.$$
$$48\sqrt{3}\, l^3 r^3 R-81 l^2 r^4 R-2\sqrt{3}\, l r^5 R+3 r^6 R-8\sqrt{3}\, l^5 R^2+340 l^4 r R^2+168\sqrt{3}\, l^3 r^2 R^2-480 l^2 r^3$$
$$R^2-32\sqrt{3}\, l r^4 R^2+60 r^5 R^2+128 l^4 R^3+288\sqrt{3}\, l^3 r R^3-1504 l^2 r^2 R^3-192\sqrt{3}\, l r^3 R^3+480 r^4 R^3-$$
$$\left.\left.2048 l^2 r R^4-512\sqrt{3}\, l r^2 R^4+1920 r^3 R^4-256 l^2 R^5-512\sqrt{3}\, l r R^5+3840 r^2 R^5+3072 r R^6\right)\right\}$$

$$\Big\{X61,\ \text{ISOGONAL CONJUGATE OF } X(17),\ X78,$$

$$\text{ISOGONAL CONJUGATE OF } X(34),\ -\frac{1}{(r-R)^2\left(3l^2+2\sqrt{3}\,l\,r-3r^2-12\,r\,R\right)^2}$$

$$3R\Big(-2\sqrt{3}\,l^5r^2+2l^4r^3+8\sqrt{3}\,l^3r^4-8l^2r^5-6\sqrt{3}\,l\,r^6+6r^7-3l^6R-2\sqrt{3}\,l^5r\,R-$$
$$3l^4r^2R+16\sqrt{3}\,l^3r^3R-l^2r^4R-46\sqrt{3}\,l\,r^5R+63r^6R+60l^4r\,R^2+40\sqrt{3}\,l^3r^2R^2-$$
$$144l^2r^3R^2-104\sqrt{3}\,l\,r^4R^2+228r^5R^2-208l^2r^2R^3-64\sqrt{3}\,l\,r^3R^3+336r^4R^3+192r^3R^4\Big)\Big\}$$

$$\Big\{X61,\ \text{ISOGONAL CONJUGATE OF } X(17),\ X79,$$

$$\text{ISOGONAL CONJUGATE OF } X(35),\ -\frac{1}{(2r+3R)^2\left(3l^2+2\sqrt{3}\,l\,r-3r^2-12\,r\,R\right)^2}12r^2$$

$$\Big(6l^6+10\sqrt{3}\,l^5r-12l^4r^2-20\sqrt{3}\,l^3r^3+14l^2r^4+2\sqrt{3}\,l\,r^5+3\sqrt{3}\,l^5R-69l^4r\,R-74\sqrt{3}\,l^3r^2R+$$
$$94l^2r^3R+19\sqrt{3}\,l\,r^4R+3r^5R-18l^4R^2-48\sqrt{3}\,l^3r\,R^2+176l^2r^2R^2+56\sqrt{3}\,l\,r^3R^2+42r^4R^2-$$
$$9\sqrt{3}\,l^3R^3+51l^2r\,R^3+39\sqrt{3}\,l\,r^2R^3+219r^3R^3-36l^2R^4-36\sqrt{3}\,l\,r\,R^4+504r^2R^4+432r\,R^5\Big)\Big\}$$

$$\Big\{X61,\ \text{ISOGONAL CONJUGATE OF } X(17),\ X80,\ \text{REFLECTION OF INCENTER IN FEUERBACH POINT},$$

$$\Big(12r^2\Big(-\sqrt{3}\,l^5+7l^4r+10\sqrt{3}\,l^3r^2-6l^2r^3-5\sqrt{3}\,l\,r^4+3r^5+10\sqrt{3}\,l^3r\,R-42l^2r^2R-$$
$$30\sqrt{3}\,l\,r^3R+30r^4R+3\sqrt{3}\,l^3R^2-37l^2r\,R^2-45\sqrt{3}\,l\,r^2R^2+99r^3R^2-4l^2R^3-$$
$$20\sqrt{3}\,l\,r\,R^3+120r^2R^3+48r\,R^4\Big)\Big)\Big/\Big((2r-R)\left(3l^2+2\sqrt{3}\,l\,r-3r^2-12\,r\,R\right)^2\Big)\Big\}$$

$$\Big\{X61,\ \text{ISOGONAL CONJUGATE OF } X(17),\ X81,$$

$$\text{CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},\ -\frac{1}{\left(3l^2+2\sqrt{3}\,l\,r-3r^2-12\,r\,R\right)^2\left(l^2-r^2-r\,R\right)^2}$$

$$3r^2R\Big(2\sqrt{3}\,l^7+4l^6r+2\sqrt{3}\,l^5r^2+8l^4r^3-2\sqrt{3}\,l^3r^4+4l^2r^5-2\sqrt{3}\,l\,r^6-7l^6R-22\sqrt{3}\,l^5r\,R+$$
$$5l^4r^2R-12\sqrt{3}\,l^3r^3R+47l^2r^4R-22\sqrt{3}\,l\,r^5R+3r^6R+44l^4r\,R^2-64\sqrt{3}\,l^3r^2R^2+$$
$$96l^2r^3R^2-80\sqrt{3}\,l\,r^4R^2+36r^5R^2+176l^2r^2R^3-96\sqrt{3}\,l\,r^3R^3+144r^4R^3+192r^3R^4\Big)\Big\}$$

$$\Big\{X61,\ \text{ISOGONAL CONJUGATE OF } X(17),\ X82,\ \text{ISOGONAL CONJUGATE OF } X(38),$$

$$-\Big(\Big(3r^2R\Big(2\sqrt{3}\,l^{11}+10l^{10}r+6\sqrt{3}\,l^9r^2+14l^8r^3+4\sqrt{3}\,l^7r^4-12l^6r^5-4\sqrt{3}\,l^5r^6-$$
$$20l^4r^7-6\sqrt{3}\,l^3r^8+2l^2r^9-2\sqrt{3}\,l\,r^{10}+6r^{11}-7l^{10}R-62\sqrt{3}\,l^9r\,R-177l^8r^2R+$$
$$80\sqrt{3}\,l^7r^3R+170l^6r^4R-220\sqrt{3}\,l^5r^5R-290l^4r^6R+96\sqrt{3}\,l^3r^7R+29l^2r^8R-$$
$$54\sqrt{3}\,l\,r^9R+147r^{10}R+156l^8r\,R^2+624\sqrt{3}\,l^7r^2R^2+704l^6r^3R^2-1472\sqrt{3}\,l^5r^4R^2-$$
$$1144l^4r^5R^2+1456\sqrt{3}\,l^3r^6R^2-192l^2r^7R^2-544\sqrt{3}\,l\,r^8R^2+1500r^9R^2-1376l^6r^2R^3-$$
$$3104\sqrt{3}\,l^5r^3R^3+704l^4r^4R^3+5792\sqrt{3}\,l^3r^5R^3-3584l^2r^6R^3-2624\sqrt{3}\,l\,r^7R^3+$$
$$8160r^8R^3+6912l^4r^3R^4+7552\sqrt{3}\,l^3r^4R^4-14592l^2r^5R^4-6144\sqrt{3}\,l\,r^6R^4+$$
$$24960r^7R^4-18688l^2r^4R^5-5632\sqrt{3}\,l\,r^5R^5+40704r^6R^5+27648r^5R^6\Big)\Big)\Big/$$
$$\Big(\left(3l^2+2\sqrt{3}\,l\,r-3r^2-12\,r\,R\right)^2\left(l^4-4l^2r^2+3r^4-9l^2r\,R+19r^3R+28r^2R^2\right)^2\Big)\Big)\Big\}$$

$$\Big\{X61,\ \text{ISOGONAL CONJUGATE OF } X(17),\ X83,\ \text{CEVAPOINT OF CENTROID AND SYMMEDIAN POINT},$$

$$\Big(3\left(l^2-2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)\Big(3l^{12}+2l^{10}r^2-19l^8r^4-36l^6r^6-19l^4r^8+2l^2r^{10}+3r^{12}-72l^{10}r\,R+$$
$$40l^8r^3R+112l^6r^5R-112l^4r^7R-40l^2r^9R+72r^{11}R+496l^8r^2R^2-672l^6r^4R^2+$$
$$448l^4r^6R^2-736l^2r^8R^2+720r^{10}R^2-1152l^6r^3R^3+2560l^4r^5R^3-3712l^2r^7R^3+3840r^9R^3+$$
$$768l^4r^4R^4-7168l^2r^6R^4+11520r^8R^4-4096l^2r^5R^5+18432r^7R^5+12288r^6R^6\Big)\Big)\Big/$$
$$\Big(\left(3l^2+2\sqrt{3}\,l\,r-3r^2-12\,r\,R\right)^2\left(5l^4-6l^2r^2+5r^4-40l^2r\,R+40r^3R+80r^2R^2\right)^2\Big)\Big\}$$

$$\left\{X61,\ \text{ISOGONAL CONJUGATE OF } X(17),\ X84,\ \text{ISOGONAL CONJUGATE OF } X(40),\ \frac{1}{r^2\left(3l^2+2\sqrt{3}\,l\,r-3r^2-12\,r\,R\right)^2}\right.$$
$$12R\left(3l^6r+3\sqrt{3}\,l^5r^2-l^4r^3-\sqrt{3}\,l^3r^4-3l^6R-4\sqrt{3}\,l^5rR-28l^4r^2R-12\sqrt{3}\,l^3r^3R+\right.$$
$$7l^2r^4R+24l^4rR^2+20\sqrt{3}\,l^3r^2R^2+56l^2r^3R^2-4\sqrt{3}\,l\,r^4R^2+12l^4R^3+16\sqrt{3}\,l^3rR^3-$$
$$\left.\left.56l^2r^2R^3-32\sqrt{3}\,l\,r^3R^3+12r^4R^3-96l^2rR^4-64\sqrt{3}\,l\,r^2R^4+96r^3R^4+192r^2R^5\right)\right\}$$

$$\left\{X61,\ \text{ISOGONAL CONJUGATE OF } X(17),\ X85,\ \text{ISOTOMIC CONJUGATE OF } X(9),\right.$$
$$\frac{1}{\left(3l^2+2\sqrt{3}\,l\,r-3r^2-12\,r\,R\right)^2\left(l^2+r^2+8\,r\,R+16R^2\right)^2}$$
$$3\left(3l^{10}+2\sqrt{3}\,l^9r+9l^8r^2+8\sqrt{3}\,l^7r^3+6l^6r^4+12\sqrt{3}\,l^5r^5-6l^4r^6+8\sqrt{3}\,l^3r^7-9l^2r^8+\right.$$
$$2\sqrt{3}\,l\,r^9-3r^{10}-84l^8rR-96\sqrt{3}\,l^7r^2R+96l^6r^3R+176\sqrt{3}\,l^5r^4R-88l^4r^5R+$$
$$64\sqrt{3}\,l^3r^6R-96l^2r^7R+48\sqrt{3}\,l\,r^8R-84r^9R-32\sqrt{3}\,l^7rR^2+624l^6r^2R^2+640\sqrt{3}\,l^5r^3R^2-$$
$$624l^4r^4R^2-80l^2r^6R^2+480\sqrt{3}\,l\,r^7R^2-1008r^8R^2+192l^6rR^3+512\sqrt{3}\,l^5r^2R^3-$$
$$2304l^4r^3R^3-1024\sqrt{3}\,l^3r^4R^3+2560l^2r^5R^3+2560\sqrt{3}\,l\,r^6R^3-6720r^7R^3-3328l^4r^2R^4-$$
$$2048\sqrt{3}\,l^3r^3R^4+11520l^2r^4R^4+7680\sqrt{3}\,l\,r^5R^4-26880r^6R^4+16384l^2r^3R^5+$$
$$\left.\left.12288\sqrt{3}\,l\,r^4R^5-64512r^5R^5+4096l^2r^2R^6+8192\sqrt{3}\,l\,r^3R^6-86016r^4R^6-49152r^3R^7\right)\right\}$$

$$\left\{X61,\ \text{ISOGONAL CONJUGATE OF } X(17),\ X86,\ \text{CEVAPOINT OF INCENTER AND CENTROID},\ \frac{1}{\left(3l^2+2\sqrt{3}\,l\,r-3r^2-12\,r\,R\right)^2\left(5l^2+r^2+4\,r\,R\right)^2}\right.$$
$$3\left(3l^{10}-6\sqrt{3}\,l^9r+17l^8r^2+16\sqrt{3}\,l^7r^3-2l^6r^4+52\sqrt{3}\,l^5r^5-46l^4r^6+32\sqrt{3}\,l^3r^7-33l^2r^8+\right.$$
$$2\sqrt{3}\,l\,r^9-3r^{10}-12l^8rR+32\sqrt{3}\,l^7r^2R+96l^6r^3R+224\sqrt{3}\,l^5r^4R-216l^4r^5R+$$
$$224\sqrt{3}\,l^3r^6R-384l^2r^7R+32\sqrt{3}\,l\,r^8R-60r^9R-320l^6r^2R^2+352\sqrt{3}\,l^5r^3R^2-832l^4r^4R^2+$$
$$544\sqrt{3}\,l^3r^5R^2-1760l^2r^6R^2+192\sqrt{3}\,l\,r^7R^2-480r^8R^2-2048l^4r^3R^3+640\sqrt{3}\,l^3r^4R^3-$$
$$\left.\left.4096l^2r^5R^3+512\sqrt{3}\,l\,r^6R^3-1920r^7R^3-4352l^2r^4R^4+512\sqrt{3}\,l\,r^5R^4-3840r^6R^4-3072r^5R^5\right)\right\}$$

$$\left\{X61,\ \text{ISOGONAL CONJUGATE OF } X(17),\ X87,\ X(2)\text{-CROSS CONJUGATE OF } X(1),\right.$$
$$\left(12r^2R\left(\sqrt{3}\,l^{11}-l^{10}r+\sqrt{3}\,l^9r^2-l^8r^3-6\sqrt{3}\,l^7r^4+6l^6r^5-14\sqrt{3}\,l^5r^6+14l^4r^7-\right.\right.$$
$$11\sqrt{3}\,l^3r^8+11l^2r^9-3\sqrt{3}\,l\,r^{10}+3r^{11}+4l^{10}R-24\sqrt{3}\,l^9rR-4l^8r^2R+16\sqrt{3}\,l^7r^3R-$$
$$104l^6r^4R+64\sqrt{3}\,l^5r^5R-120l^4r^6R-16\sqrt{3}\,l^3r^7R+36l^2r^8R-40\sqrt{3}\,l\,r^9R+$$
$$60r^{10}R-64l^8rR^2+96\sqrt{3}\,l^7r^2R^2+672l^6r^3R^2+32\sqrt{3}\,l^5r^4R^2-32l^4r^5R^2-$$
$$224\sqrt{3}\,l^3r^6R^2-288l^2r^7R^2-160\sqrt{3}\,l\,r^8R^2+480r^9R^2+128l^6r^2R^3+512\sqrt{3}\,l^5r^3R^3-$$
$$896l^4r^4R^3-1536\sqrt{3}\,l^3r^5R^3-1152l^2r^6R^3+1920r^8R^3-2048l^4r^3R^4-768\sqrt{3}\,l^3r^4R^4-$$
$$\left.\left.256l^2r^5R^4+1280\sqrt{3}\,l\,r^6R^4+3840r^7R^4+1024l^2r^4R^5+2048\sqrt{3}\,l\,r^5R^5+3072r^6R^5\right)\right)\Big/$$
$$\left.\left(\left(3l^2+2\sqrt{3}\,l\,r-3r^2-12\,r\,R\right)^2\left(l^4+2l^2r^2+r^4-20l^2rR+12r^3R+32r^2R^2\right)^2\right)\right\}$$

$$\left\{X61,\ \text{ISOGONAL CONJUGATE OF } X(17),\ X88,\ \text{ISOGONAL CONJUGATE OF } X(44),\ -\frac{1}{\left(l^2+3r^2-15\,r\,R\right)^2\left(3l^2+2\sqrt{3}\,l\,r-3r^2-12\,r\,R\right)^2}\right.$$
$$3r^2R\left(-2\sqrt{3}\,l^7+20l^6r+6\sqrt{3}\,l^5r^2+168l^4r^3+210\sqrt{3}\,l^3r^4-108l^2r^5-\right.$$
$$54\sqrt{3}\,l\,r^6-7l^6R+42\sqrt{3}\,l^5rR-123l^4r^2R-156\sqrt{3}\,l^3r^3R-225l^2r^4R-$$
$$486\sqrt{3}\,l\,r^5R+243r^6R+60l^4rR^2-96\sqrt{3}\,l^3r^2R^2-5040l^2r^3R^2-1296\sqrt{3}\,l\,r^4R^2+$$
$$\left.\left.2916r^5R^2-144l^2r^2R^3-864\sqrt{3}\,l\,r^3R^3+11664r^4R^3+15552r^3R^4\right)\right\}$$

$$\Big\{X61,\ \text{ISOGONAL CONJUGATE OF } X(17),\ X89,$$

$$\text{ISOGONAL CONJUGATE OF } X(45),\ -\frac{1}{\left(3\,l^2+2\sqrt{3}\,l\,r-3\,r^2-12\,r\,R\right)^2\left(2\,l^2-6\,r^2+3\,r\,R\right)^2}$$

$$3\,r^2\,R\,\Big(4\sqrt{3}\,l^7+32\,l^6\,r+60\sqrt{3}\,l^5\,r^2+288\,l^4\,r^3+204\sqrt{3}\,l^3\,r^4-108\sqrt{3}\,l\,r^6-$$
$$19\,l^6\,R-30\sqrt{3}\,l^5\,r\,R+45\,l^4\,r^2\,R+660\sqrt{3}\,l^3\,r^3\,R+531\,l^2\,r^4\,R-1134\sqrt{3}\,l\,r^5\,R+$$
$$243\,r^6\,R-108\,l^4\,r\,R^2-624\sqrt{3}\,l^3\,r^2\,R^2-3528\,l^2\,r^3\,R^2-3888\sqrt{3}\,l\,r^4\,R^2+$$
$$2916\,r^5\,R^2+720\,l^2\,r^2\,R^3-4320\sqrt{3}\,l\,r^3\,R^3+11\,664\,r^4\,R^3+15\,552\,r^3\,R^4\Big)\Big\}$$

$$\Big\{X61,\ \text{ISOGONAL CONJUGATE OF } X(17),\ X90,\ X(3)\text{-CROSS CONJUGATE OF } X(1),$$

$$-\frac{1}{\left(3\,l^2+2\sqrt{3}\,l\,r-3\,r^2-12\,r\,R\right)^2\left(r^2+2\,r\,R-R^2\right)^2}12\,r^2\,R$$
$$\Big(-3\,l^6\,r-3\sqrt{3}\,l^5\,r^2+l^4\,r^3+\sqrt{3}\,l^3\,r^4+2\sqrt{3}\,l^5\,r\,R+28\,l^4\,r^2\,R+10\sqrt{3}\,l^3\,r^3\,R-4\,l^2\,r^4\,R-\sqrt{3}\,l^5\,R^2+$$
$$16\,l^4\,r\,R^2+4\sqrt{3}\,l^3\,r^2\,R^2-36\,l^2\,r^3\,R^2+\sqrt{3}\,l\,r^4\,R^2+2\sqrt{3}\,l^3\,r\,R^3-60\,l^2\,r^2\,R^3+6\sqrt{3}\,l\,r^3\,R^3+$$
$$3\sqrt{3}\,l^3\,R^4-29\,l^2\,r\,R^4+3\sqrt{3}\,l\,r^2\,R^4+3\,r^3\,R^4-4\,l^2\,R^5-20\sqrt{3}\,l\,r\,R^5+24\,r^2\,R^5+48\,r\,R^6\Big)\Big\}$$

$$\Big\{X61,\ \text{ISOGONAL CONJUGATE OF } X(17),\ X91,\ \text{ISOGONAL CONJUGATE OF } X(47),$$

$$-\Big(\Big(3\,r^2\,\Big(-3\,l^{10}-2\sqrt{3}\,l^9\,r-9\,l^8\,r^2-8\sqrt{3}\,l^7\,r^3-6\,l^6\,r^4-12\sqrt{3}\,l^5\,r^5+6\,l^4\,r^6-8\sqrt{3}\,l^3\,r^7+9\,l^2\,r^8-$$
$$2\sqrt{3}\,l\,r^9+3\,r^{10}-2\sqrt{3}\,l^9\,R+74\,l^8\,r\,R+64\sqrt{3}\,l^7\,r^2\,R-48\,l^6\,r^3\,R-100\sqrt{3}\,l^5\,r^4\,R+$$
$$68\,l^4\,r^5\,R+48\sqrt{3}\,l^3\,r^6\,R-42\sqrt{3}\,l\,r^8\,R+66\,r^9\,R+24\,l^8\,R^2+52\sqrt{3}\,l^7\,r\,R^2-452\,l^6\,r^2\,R^2-$$
$$404\sqrt{3}\,l^5\,r^3\,R^2+692\,l^4\,r^4\,R^2+604\sqrt{3}\,l^3\,r^5\,R^2-652\,l^2\,r^6\,R^2-348\sqrt{3}\,l\,r^7\,R^2+$$
$$612\,r^8\,R^2+12\sqrt{3}\,l^7\,R^3-556\,l^6\,r\,R^3-588\sqrt{3}\,l^5\,r^2\,R^3+2412\,l^4\,r^3\,R^3+1764\sqrt{3}\,l^3\,r^4\,R^3-$$
$$3652\,l^2\,r^5\,R^3-1476\sqrt{3}\,l\,r^6\,R^3+3108\,r^7\,R^3-76\,l^6\,R^4-232\sqrt{3}\,l^5\,r\,R^4+3252\,l^4\,r^2\,R^4+$$
$$2384\sqrt{3}\,l^3\,r^3\,R^4-8820\,l^2\,r^4\,R^4-3464\sqrt{3}\,l\,r^5\,R^4+9420\,r^6\,R^4-24\sqrt{3}\,l^5\,R^5+$$
$$1560\,l^4\,r\,R^5+1552\sqrt{3}\,l^3\,r^2\,R^5-11\,280\,l^2\,r^3\,R^5-4568\sqrt{3}\,l\,r^4\,R^5+17\,496\,r^5\,R^5+112\,l^4\,R^6+$$
$$368\sqrt{3}\,l^3\,r\,R^6-7280\,l^2\,r^2\,R^6-3344\sqrt{3}\,l\,r^3\,R^6+19\,872\,r^4\,R^6+16\sqrt{3}\,l^3\,R^7-1872\,l^2\,r\,R^7-$$
$$1264\sqrt{3}\,l\,r^2\,R^7+13\,488\,r^3\,R^7-64\,l^2\,R^8-192\sqrt{3}\,l\,r\,R^8+4992\,r^2\,R^8+768\,r\,R^9\Big)\Big)\Big/$$
$$\Big(\left(3\,l^2+2\sqrt{3}\,l\,r-3\,r^2-12\,r\,R\right)^2\left(l^2\,r+r^3-l^2\,R+3\,r^2\,R+2\,r\,R^2+2\,R^3\right)^2\Big)\Big)\Big\}$$

$$\Big\{X61,\ \text{ISOGONAL CONJUGATE OF } X(17),\ X92,$$

$$\text{CEVAPOINT OF INCENTER AND CLAWSON POINT},\ \frac{1}{\left(3\,l^2+2\sqrt{3}\,l\,r-3\,r^2-12\,r\,R\right)^2\left(l^2+r^2-4\,R^2\right)^2}$$

$$3\,\Big(3\,l^{10}+2\sqrt{3}\,l^9\,r+9\,l^8\,r^2+8\sqrt{3}\,l^7\,r^3+6\,l^6\,r^4+12\sqrt{3}\,l^5\,r^5-6\,l^4\,r^6+8\sqrt{3}\,l^3\,r^7-$$
$$9\,l^2\,r^8+2\sqrt{3}\,l\,r^9-3\,r^{10}-84\,l^8\,r\,R-72\sqrt{3}\,l^7\,r^2\,R+24\,l^6\,r^3\,R+88\sqrt{3}\,l^5\,r^4\,R-$$
$$80\,l^4\,r^5\,R-56\sqrt{3}\,l^3\,r^6\,R+8\,l^2\,r^7\,R+40\sqrt{3}\,l\,r^8\,R-60\,r^9\,R-24\,l^8\,R^2-16\sqrt{3}\,l^7\,r\,R^2+$$
$$592\,l^6\,r^2\,R^2+448\sqrt{3}\,l^5\,r^3\,R^2-688\,l^4\,r^4\,R^2-624\sqrt{3}\,l^3\,r^5\,R^2+624\,l^2\,r^6\,R^2+320\sqrt{3}\,l\,r^7\,R^2-$$
$$504\,r^8\,R^2+576\,l^6\,r\,R^3+480\sqrt{3}\,l^5\,r^2\,R^3-2560\,l^4\,r^3\,R^3-1792\sqrt{3}\,l^3\,r^4\,R^3+3264\,l^2\,r^5\,R^3+$$
$$1312\sqrt{3}\,l\,r^6\,R^3-2304\,r^7\,R^3+48\,l^6\,R^4+32\sqrt{3}\,l^5\,r\,R^4-3152\,l^4\,r^2\,R^4-2048\sqrt{3}\,l^3\,r^3\,R^4+$$
$$7376\,l^2\,r^4\,R^4+2912\sqrt{3}\,l\,r^5\,R^4-6192\,r^6\,R^4-960\,l^4\,r\,R^5-768\sqrt{3}\,l^3\,r^2\,R^5+7936\,l^2\,r^3\,R^5+$$
$$3328\sqrt{3}\,l\,r^4\,R^5-9792\,r^5\,R^5+3328\,l^2\,r^2\,R^6+1536\sqrt{3}\,l\,r^3\,R^6-8448\,r^4\,R^6-3072\,r^3\,R^7\Big)\Big\}$$

$$\Big\{X61,\ \text{ISOGONAL CONJUGATE OF } X(17),\ X93,\ \text{ISOGONAL CONJUGATE OF } X(49),$$

$$\Big(3\Big(3 l^{14}+2\sqrt{3}\, l^{13} r+15 l^{12} r^2+12\sqrt{3}\, l^{11} r^3+27 l^{10} r^4+30\sqrt{3}\, l^9 r^5+15 l^8 r^6+40\sqrt{3}\, l^7 r^7-$$
$$15 l^6 r^8+30\sqrt{3}\, l^5 r^9-27 l^4 r^{10}+12\sqrt{3}\, l^3 r^{11}-15 l^2 r^{12}+2\sqrt{3}\, l\, r^{13}-3 r^{14}-84 l^{12} r R-$$
$$48\sqrt{3}\, l^{11} r^2 R-216 l^{10} r^3 R-144\sqrt{3}\, l^9 r^4 R-108 l^8 r^5 R-96\sqrt{3}\, l^7 r^6 R+48 l^6 r^7 R+$$
$$96\sqrt{3}\, l^5 r^8 R-108 l^4 r^9 R+144\sqrt{3}\, l^3 r^{10} R-216 l^2 r^{11} R+48\sqrt{3}\, l\, r^{12} R-84 r^{13} R-30 l^{12} R^2-$$
$$12\sqrt{3}\, l^{11} r R^2+500 l^{10} r^2 R^2-4\sqrt{3}\, l^9 r^3 R^2+1134 l^8 r^4 R^2+936\sqrt{3}\, l^7 r^5 R^2-552 l^6 r^6 R^2-$$
$$744\sqrt{3}\, l^5 r^7 R^2+702 l^4 r^8 R^2+868\sqrt{3}\, l^3 r^9 R^2-1228 l^2 r^{10} R^2+492\sqrt{3}\, l\, r^{11} R^2-1038 r^{12} R^2+$$
$$720 l^{10} r R^3+240\sqrt{3}\, l^9 r^2 R^3+688 l^8 r^3 R^3+3008\sqrt{3}\, l^7 r^4 R^3-6880 l^6 r^5 R^3-6240\sqrt{3}\, l^5 r^6 R^3+$$
$$7264 l^4 r^7 R^3+4032\sqrt{3}\, l^3 r^8 R^3-3568 l^2 r^9 R^3+2800\sqrt{3}\, l\, r^{10} R^3-7440 r^{11} R^3+96 l^{10} R^4-$$
$$12\sqrt{3}\, l^9 r R^4-3072 l^8 r^2 R^4+1680\sqrt{3}\, l^7 r^3 R^4-16576 l^6 r^4 R^4-17736\sqrt{3}\, l^5 r^5 R^4+$$
$$30336 l^4 r^6 R^4+14736\sqrt{3}\, l^3 r^7 R^4-6816 l^2 r^8 R^4+9588\sqrt{3}\, l\, r^9 R^4-34176 r^{10} R^4-1920 l^8 r R^5+$$
$$192\sqrt{3}\, l^7 r^2 R^5-9216 l^6 r^3 R^5-21312\sqrt{3}\, l^5 r^4 R^5+68864 l^4 r^5 R^5+36160\sqrt{3}\, l^3 r^6 R^5-$$
$$16384 l^2 r^7 R^5+19776\sqrt{3}\, l\, r^8 R^5-104832 r^9 R^5-102 l^8 R^6+172\sqrt{3}\, l^7 r R^6+2784 l^6 r^2 R^6-$$
$$10068\sqrt{3}\, l^5 r^3 R^6+79244 l^4 r^4 R^6+52692\sqrt{3}\, l^3 r^5 R^6-47392 l^2 r^6 R^6+22228\sqrt{3}\, l\, r^7 R^6-$$
$$216678 r^8 R^6+1632 l^6 r R^7-2064\sqrt{3}\, l^5 r^2 R^7+37536 l^4 r^3 R^7+40800\sqrt{3}\, l^3 r^4 R^7-86688 l^2 r^5 R^7+$$
$$7152\sqrt{3}\, l\, r^6 R^7-296544 r^7 R^7+21 l^6 R^8-270\sqrt{3}\, l^5 r R^8+4501 l^4 r^2 R^8+14308\sqrt{3}\, l^3 r^3 R^8-$$
$$79573 l^2 r^4 R^8-11598\sqrt{3}\, l\, r^5 R^8-255573 r^6 R^8-252 l^4 r R^9+2160\sqrt{3}\, l^3 r^2 R^9-$$
$$30808 l^2 r^3 R^9-13168\sqrt{3}\, l\, r^4 R^9-124668 r^5 R^9+12 l^4 R^{10}+120\sqrt{3}\, l^3 r R^{10}-4200 l^2 r^2 R^{10}-$$
$$4440\sqrt{3}\, l\, r^3 R^{10}-27108 r^4 R^{10}-96 l^2 r R^{11}-480\sqrt{3}\, l\, r^2 R^{11}-1248 r^3 R^{11}+192 r^2 R^{12}\Big)\Big)\Big/$$
$$\Big(\Big(3 l^2+2\sqrt{3}\, l\, r-3 r^2-12 r R\Big)^2\Big(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-8 l^2 R^2+24 r^2 R^2+32 r R^3+13 R^4\Big)^2\Big)\Big\}$$

$$\Big\{X61,\ \text{ISOGONAL CONJUGATE OF } X(17),\ X94,\ \text{ISOGONAL CONJUGATE OF } X(50),$$

$$\Big(3\Big(3 l^{14}+2\sqrt{3}\, l^{13} r+15 l^{12} r^2+12\sqrt{3}\, l^{11} r^3+27 l^{10} r^4+30\sqrt{3}\, l^9 r^5+15 l^8 r^6+40\sqrt{3}\, l^7 r^7-15 l^6 r^8+$$
$$30\sqrt{3}\, l^5 r^9-27 l^4 r^{10}+12\sqrt{3}\, l^3 r^{11}-15 l^2 r^{12}+2\sqrt{3}\, l\, r^{13}-3 r^{14}-84 l^{12} r R-48\sqrt{3}\, l^{11} r^2 R-$$
$$216 l^{10} r^3 R-144\sqrt{3}\, l^9 r^4 R-108 l^8 r^5 R-96\sqrt{3}\, l^7 r^6 R+48 l^6 r^7 R+96\sqrt{3}\, l^5 r^8 R-$$
$$108 l^4 r^9 R+144\sqrt{3}\, l^3 r^{10} R-216 l^2 r^{11} R+48\sqrt{3}\, l\, r^{12} R-84 r^{13} R-36 l^{12} R^2-12\sqrt{3}\, l^{11} r R^2+$$
$$496 l^{10} r^2 R^2-4\sqrt{3}\, l^9 r^3 R^2+1172 l^8 r^4 R^2+936\sqrt{3}\, l^7 r^5 R^2-480 l^6 r^6 R^2-744\sqrt{3}\, l^5 r^7 R^2+$$
$$740 l^4 r^8 R^2+868\sqrt{3}\, l^3 r^9 R^2-1232 l^2 r^{10} R^2+492\sqrt{3}\, l\, r^{11} R^2-1044 r^{12} R^2+864 l^{10} r R^3+$$
$$240\sqrt{3}\, l^9 r^2 R^3+608 l^8 r^3 R^3+3008\sqrt{3}\, l^7 r^4 R^3-7104 l^6 r^5 R^3-6240\sqrt{3}\, l^5 r^6 R^3+7488 l^4 r^7 R^3+$$
$$4032\sqrt{3}\, l^3 r^8 R^3-3488 l^2 r^9 R^3+2800\sqrt{3}\, l\, r^{10} R^3-7584 r^{11} R^3+162 l^{10} R^4-3930 l^8 r^2 R^4+$$
$$1728\sqrt{3}\, l^7 r^3 R^4-16188 l^6 r^4 R^4-17664\sqrt{3}\, l^5 r^5 R^4+30396 l^4 r^6 R^4+14784\sqrt{3}\, l^3 r^7 R^4-$$
$$5478 l^2 r^8 R^4+9600\sqrt{3}\, l\, r^9 R^4-35682 r^{10} R^4-3240 l^8 r R^5-7200 l^6 r^3 R^5-21504\sqrt{3}\, l^5 r^4 R^5+$$
$$67856 l^4 r^5 R^5+36352\sqrt{3}\, l^3 r^6 R^5-9248 l^2 r^7 R^5+19968\sqrt{3}\, l\, r^8 R^5-113832 r^9 R^5-324 l^8 R^6+$$
$$108\sqrt{3}\, l^7 r R^6+7272 l^6 r^2 R^6-10260\sqrt{3}\, l^5 r^3 R^6+79128 l^4 r^4 R^6+53268\sqrt{3}\, l^3 r^5 R^6-$$
$$29720 l^2 r^6 R^6+23444\sqrt{3}\, l\, r^7 R^6-250500 r^8 R^6+5184 l^6 r R^7-1296\sqrt{3}\, l^5 r^2 R^7+$$
$$40320 l^4 r^3 R^7+42336\sqrt{3}\, l^3 r^4 R^7-68736 l^2 r^5 R^7+10992\sqrt{3}\, l\, r^6 R^7-379200 r^7 R^7+$$
$$243 l^6 R^8-162\sqrt{3}\, l^5 r R^8+2835 l^4 r^2 R^8+15228\sqrt{3}\, l^3 r^3 R^8-83475 l^2 r^4 R^8-5346\sqrt{3}\, l\, r^5 R^8-$$
$$386163 r^6 R^8-2916 l^4 r R^9+1296\sqrt{3}\, l^3 r^2 R^9-49896 l^2 r^3 R^9-8208\sqrt{3}\, l\, r^4 R^9-251748 r^5 R^9-$$
$$11664 l^2 r^2 R^{10}-2592\sqrt{3}\, l\, r^3 R^{10}-94608 r^4 R^{10}-15552 r^3 R^{11}\Big)\Big)\Big/\Big(\Big(3 l^2+2\sqrt{3}\, l\, r-3 r^2-12 r R\Big)^2$$
$$\Big(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-12 l^2 R^2+28 r^2 R^2+48 r R^3+27 R^4\Big)^2\Big)\Big\}$$

$$\Big\{\text{X61, ISOGONAL CONJUGATE OF X(17), X95, CEVAPOINT OF CENTROID AND CIRCUMCENTER,}$$

$$\Big(3\Big(3 l^{14}+2\sqrt{3}\, l^{13} r+63 l^{12} r^2+44\sqrt{3}\, l^{11} r^3+171 l^{10} r^4+158\sqrt{3}\, l^9 r^5+111 l^8 r^6+232\sqrt{3}\, l^7 r^7-$$
$$111 l^6 r^8+158\sqrt{3}\, l^5 r^9-171 l^4 r^{10}+44\sqrt{3}\, l^3 r^{11}-63 l^2 r^{12}+2\sqrt{3}\, l r^{13}-3 r^{14}-84 l^{12} r R-$$
$$48\sqrt{3}\, l^{11} r^2 R-1176 l^{10} r^3 R-656\sqrt{3}\, l^9 r^4 R-876 l^8 r^5 R-608\sqrt{3}\, l^7 r^6 R+432 l^6 r^7 R+$$
$$608\sqrt{3}\, l^5 r^8 R-876 l^4 r^9 R+656\sqrt{3}\, l^3 r^{10} R-1176 l^2 r^{11} R+48\sqrt{3}\, l r^{12} R-84 r^{13} R-$$
$$24 l^{12} R^2-16\sqrt{3}\, l^{11} r R^2+352 l^{10} r^2 R^2-144\sqrt{3}\, l^9 r^3 R^2+5352 l^8 r^4 R^2+1824\sqrt{3}\, l^7 r^5 R^2-$$
$$11776 l^6 r^6 R^2-608\sqrt{3}\, l^5 r^7 R^2+1848 l^4 r^8 R^2+4080\sqrt{3}\, l^3 r^9 R^2-9056 l^2 r^{10} R^2+$$
$$496\sqrt{3}\, l r^{11} R^2-1032 r^{12} R^2+576 l^{10} r R^3+320\sqrt{3}\, l^9 r^2 R^3+3200 l^8 r^3 R^3+4608\sqrt{3}\, l^7 r^4 R^3-$$
$$12416 l^6 r^5 R^3-7296\sqrt{3}\, l^5 r^6 R^3+18944 l^4 r^7 R^3+13824\sqrt{3}\, l^3 r^8 R^3-36800 l^2 r^9 R^3+$$
$$2880\sqrt{3}\, l r^{10} R^3-7296 r^{11} R^3+48 l^{10} R^4+32\sqrt{3}\, l^9 r R^4-2864 l^8 r^2 R^4+384\sqrt{3}\, l^7 r^3 R^4-$$
$$16864 l^6 r^4 R^4-16704\sqrt{3}\, l^5 r^5 R^4+41696 l^4 r^6 R^4+28032\sqrt{3}\, l^3 r^7 R^4-83536 l^2 r^8 R^4+$$
$$10272\sqrt{3}\, l r^9 R^4-32688 r^{10} R^4-960 l^8 r R^5-512\sqrt{3}\, l^7 r^2 R^5-3072 l^6 r^3 R^5-12800\sqrt{3}\, l^5 r^4 R^5+$$
$$41856 l^4 r^5 R^5+35328\sqrt{3}\, l^3 r^6 R^5-103424 l^2 r^7 R^5+23040\sqrt{3}\, l r^8 R^5-96192 r^9 R^5+$$
$$2560 l^6 r^2 R^6-1536\sqrt{3}\, l^5 r^3 R^6+42496 l^4 r^4 R^6+27136\sqrt{3}\, l^3 r^5 R^6-67072 l^2 r^6 R^6+$$
$$31744\sqrt{3}\, l r^7 R^6-185856 r^8 R^6+10240 l^4 r^3 R^7+10240\sqrt{3}\, l^3 r^4 R^7-32768 l^2 r^5 R^7+$$
$$24576\sqrt{3}\, l r^6 R^7-227328 r^7 R^7-20480 l^2 r^4 R^8+8192\sqrt{3}\, l r^5 R^8-159744 r^6 R^8-49152 r^5 R^9\Big)\Big)\Big/$$
$$\Big(\Big(3 l^2+2\sqrt{3}\, l r-3 r^2-12 r R\Big)^2\Big(l^4+18 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-4 l^2 R^2+20 r^2 R^2+16 r R^3\Big)^2\Big)\Big\}$$

$$\Big\{\text{X61, ISOGONAL CONJUGATE OF X(17), X96, ISOGONAL CONJUGATE OF X(52),}$$

$$-\Big(\Big(3\Big(3 l^{14}+2\sqrt{3}\, l^{13} r-33 l^{12} r^2-20\sqrt{3}\, l^{11} r^3-117 l^{10} r^4-98\sqrt{3}\, l^9 r^5-81 l^8 r^6-152\sqrt{3}\, l^7 r^7+$$
$$81 l^6 r^8-98\sqrt{3}\, l^5 r^9+117 l^4 r^{10}-20\sqrt{3}\, l^3 r^{11}+33 l^2 r^{12}+2\sqrt{3}\, l r^{13}-3 r^{14}-$$
$$84 l^{12} r R-48\sqrt{3}\, l^{11} r^2 R+744 l^{10} r^3 R+368\sqrt{3}\, l^9 r^4 R+660 l^8 r^5 R+416\sqrt{3}\, l^7 r^6 R-$$
$$336 l^6 r^7 R-416\sqrt{3}\, l^5 r^8 R+660 l^4 r^9 R-368\sqrt{3}\, l^3 r^{10} R+744 l^2 r^{11} R+48\sqrt{3}\, l r^{12} R-$$
$$84 r^{13} R-36 l^{12} R^2-32\sqrt{3}\, l^{11} r R^2+1336 l^{10} r^2 R^2+704\sqrt{3}\, l^9 r^3 R^2-6220 l^8 r^4 R^2-$$
$$1408\sqrt{3}\, l^7 r^5 R^2+7120 l^6 r^6 R^2+576\sqrt{3}\, l^5 r^7 R^2-3580 l^4 r^8 R^2-2912\sqrt{3}\, l^3 r^9 R^2+$$
$$7288 l^2 r^{10} R^2+512\sqrt{3}\, l r^{11} R^2-1044 r^{12} R^2+864 l^{10} r R^3+640\sqrt{3}\, l^9 r^2 R^3-12832 l^8 r^3 R^3-$$
$$5888\sqrt{3}\, l^7 r^4 R^3+34752 l^6 r^5 R^3+7936\sqrt{3}\, l^5 r^6 R^3-40512 l^4 r^7 R^3-13056\sqrt{3}\, l^3 r^8 R^3+$$
$$40672 l^2 r^9 R^3+3200\sqrt{3}\, l r^{10} R^3-7584 r^{11} R^3+168 l^{10} R^4+192\sqrt{3}\, l^9 r R^4-$$
$$9896 l^8 r^2 R^4-6336\sqrt{3}\, l^7 r^3 R^4+70768 l^6 r^4 R^4+25344\sqrt{3}\, l^5 r^5 R^4-140272 l^4 r^6 R^4-$$
$$37056\sqrt{3}\, l^3 r^7 R^4+142568 l^2 r^8 R^4+12992\sqrt{3}\, l r^9 R^4-35688 r^{10} R^4-3360 l^8 r R^5-$$
$$3072\sqrt{3}\, l^7 r^2 R^5+64512 l^6 r^3 R^5+33280\sqrt{3}\, l^5 r^4 R^5-244160 l^4 r^5 R^5-70144\sqrt{3}\, l^3 r^6 R^5+$$
$$326656 l^2 r^7 R^5+35840\sqrt{3}\, l r^8 R^5-113952 r^9 R^5-384 l^8 R^6-544\sqrt{3}\, l^7 r R^6+$$
$$29120 l^6 r^2 R^6+21216\sqrt{3}\, l^5 r^3 R^6-239232 l^4 r^4 R^6-87776\sqrt{3}\, l^3 r^5 R^6+494016 l^2 r^6 R^6+$$
$$68128\sqrt{3}\, l r^7 R^6-251520 r^8 R^6+6144 l^6 r R^7+6528\sqrt{3}\, l^5 r^2 R^7-131584 l^4 r^3 R^7-$$
$$66816\sqrt{3}\, l^3 r^4 R^7+486912 l^2 r^5 R^7+88448\sqrt{3}\, l r^6 R^7-384000 r^7 R^7+432 l^6 R^8+$$
$$736\sqrt{3}\, l^5 r R^8-38608 l^4 r^2 R^8-28480\sqrt{3}\, l^3 r^3 R^8+301776 l^2 r^4 R^8+76000\sqrt{3}\, l r^5 R^8-$$
$$399792 r^6 R^8-5184 l^4 r R^9-5888\sqrt{3}\, l^3 r^2 R^9+110464 l^2 r^3 R^9+40704\sqrt{3}\, l r^4 R^9-$$
$$275520 r^5 R^9-192 l^4 R^{10}-384\sqrt{3}\, l^3 r R^{10}+21120 l^2 r^2 R^{10}+12160\sqrt{3}\, l r^3 R^{10}-$$
$$119232 r^4 R^{10}+1536 l^2 r R^{11}+1536\sqrt{3}\, l r^2 R^{11}-29184 r^3 R^{11}-3072 r^2 R^{12}\Big)\Big)\Big/$$
$$\Big(\Big(3 l^2+2\sqrt{3}\, l r-3 r^2-12 r R\Big)^2\Big(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2-4 R^4\Big)^2\Big)\Big)\Big\}$$

$$\{X61,\ \text{ISOGONAL CONJUGATE OF } X(17),\ X97,\ \text{ISOGONAL CONJUGATE OF } X(53),$$
$$-\Big(\Big(3R^2\Big(-2\sqrt{3}\,l^{11}r-20l^{10}r^2-22\sqrt{3}\,l^9r^3+16l^8r^4+236\sqrt{3}\,l^7r^5+584l^6r^6-236\sqrt{3}\,l^5r^7+$$
$$16l^4r^8+22\sqrt{3}\,l^3r^9-20l^2r^{10}+2\sqrt{3}\,l\,r^{11}+40\sqrt{3}\,l^9r^2R+320l^8r^3R+224\sqrt{3}\,l^7r^4R-$$
$$448l^6r^5R-1168\sqrt{3}\,l^5r^6R+448l^4r^7R+224\sqrt{3}\,l^3r^8R-320l^2r^9R+40\sqrt{3}\,l\,r^{10}R-$$
$$3l^{10}R^2+18\sqrt{3}\,l^9rR^2+123l^8r^2R^2-64\sqrt{3}\,l^7r^3R^2-1474l^6r^4R^2-1764\sqrt{3}\,l^5r^5R^2+$$
$$2370l^4r^6R^2+832\sqrt{3}\,l^3r^7R^2-2043l^2r^8R^2+338\sqrt{3}\,l\,r^9R^2+3r^{10}R^2+60l^8rR^3-$$
$$288\sqrt{3}\,l^7r^2R^3-1536l^6r^3R^3-480\sqrt{3}\,l^5r^4R^3+4872l^4r^5R^3+1248\sqrt{3}\,l^3r^6R^3-6656l^2r^7R^3+$$
$$1568\sqrt{3}\,l\,r^8R^3+60r^9R^3+24l^8R^4-48\sqrt{3}\,l^7rR^4-384l^6r^2R^4+592\sqrt{3}\,l^5r^3R^4+$$
$$3440l^4r^4R^4+368\sqrt{3}\,l^3r^5R^4-11648l^2r^6R^4+4336\sqrt{3}\,l\,r^7R^4+504r^8R^4-384l^6rR^5+$$
$$576\sqrt{3}\,l^5r^2R^5+1536l^4r^3R^5-640\sqrt{3}\,l^3r^4R^5-10368l^2r^5R^5+7232\sqrt{3}\,l\,r^6R^5+2304r^7R^5-$$
$$48l^6R^6+32\sqrt{3}\,l^5rR^6+80l^4r^2R^6-448\sqrt{3}\,l^3r^3R^6-3152l^2r^4R^6+6944\sqrt{3}\,l\,r^5R^6+$$
$$6192r^6R^6+576l^4rR^7-256\sqrt{3}\,l^3r^2R^7+2176l^2r^3R^7+3328\sqrt{3}\,l\,r^4R^7+9792r^5R^7+$$
$$2304l^2r^2R^8+512\sqrt{3}\,l\,r^3R^8+8448r^4R^8+3072r^3R^9\Big)\Big)\Big/\Big(\Big(3l^2+2\sqrt{3}\,l\,r-3r^2-12rR\Big)^2$$
$$\Big(l^4-6l^2r^2+r^4-8l^2rR+8r^3R-7l^2R^2+23r^2R^2+28rR^3+12R^4\Big)^2\Big)\Big)\Big\}$$

$$\{X61,\ \text{ISOGONAL CONJUGATE OF } X(17),\ X98,\ \text{TarryPoint},$$
$$-\Big(\Big(3\Big(3l^{10}+2\sqrt{3}\,l^9r+9l^8r^2+8\sqrt{3}\,l^7r^3+6l^6r^4+12\sqrt{3}\,l^5r^5-6l^4r^6+8\sqrt{3}\,l^3r^7-9l^2r^8+$$
$$2\sqrt{3}\,l\,r^9-3r^{10}-60l^8rR-32\sqrt{3}\,l^7r^2R-48l^6r^3R-32\sqrt{3}\,l^5r^4R+24l^4r^5R+$$
$$32\sqrt{3}\,l^3r^6R-48l^2r^7R+32\sqrt{3}\,l\,r^8R-60r^9R-12l^8R^2-8\sqrt{3}\,l^7rR^2+416l^6r^2R^2+$$
$$120\sqrt{3}\,l^5r^3R^2-520l^4r^4R^2-56\sqrt{3}\,l^3r^5R^2+224l^2r^6R^2+200\sqrt{3}\,l\,r^7R^2-$$
$$492r^8R^2+192l^6rR^3+96\sqrt{3}\,l^5r^2R^3-1600l^4r^3R^3-320\sqrt{3}\,l^3r^4R^3+1984l^2r^5R^3+$$
$$608\sqrt{3}\,l\,r^6R^3-2112r^7R^3-1152l^4r^2R^4-384\sqrt{3}\,l^3r^3R^4+4352l^2r^4R^4+$$
$$896\sqrt{3}\,l\,r^5R^4-4992r^6R^4+3072l^2r^3R^5+512\sqrt{3}\,l\,r^4R^5-6144r^5R^5-3072r^4R^6\Big)\Big)\Big/$$
$$\Big(\Big(3l^2+2\sqrt{3}\,l\,r-3r^2-12rR\Big)^2\Big(l^2-2\sqrt{3}\,l\,r-r^2-4rR\Big)\Big(l^2+2\sqrt{3}\,l\,r-r^2-4rR\Big)\Big)\Big)\Big\}$$

$$\{X61,\ \text{ISOGONAL CONJUGATE OF } X(17),\ X99,\ \text{STEINER POINT},$$
$$\Big(3\Big(3l^{10}+2\sqrt{3}\,l^9r+9l^8r^2+8\sqrt{3}\,l^7r^3+6l^6r^4+12\sqrt{3}\,l^5r^5-6l^4r^6+8\sqrt{3}\,l^3r^7-9l^2r^8+$$
$$2\sqrt{3}\,l\,r^9-3r^{10}-60l^8rR-32\sqrt{3}\,l^7r^2R-48l^6r^3R-32\sqrt{3}\,l^5r^4R+24l^4r^5R+$$
$$32\sqrt{3}\,l^3r^6R-48l^2r^7R+32\sqrt{3}\,l\,r^8R-60r^9R+160l^6r^2R^2+736l^4r^4R^2+64\sqrt{3}\,l^3r^5R^2-$$
$$32l^2r^6R^2+192\sqrt{3}\,l\,r^7R^2-480r^8R^2+640l^4r^3R^3+256\sqrt{3}\,l^3r^4R^3-256l^2r^5R^3+$$
$$512\sqrt{3}\,l\,r^6R^3-1920r^7R^3-1280l^2r^4R^4+512\sqrt{3}\,l\,r^5R^4-3840r^6R^4-3072r^5R^5\Big)\Big)\Big/$$
$$\Big(\Big(3l^2+2\sqrt{3}\,l\,r-3r^2-12rR\Big)^2\Big(l^2-2\sqrt{3}\,l\,r-r^2-4rR\Big)\Big(l^2+2\sqrt{3}\,l\,r-r^2-4rR\Big)\Big)\Big\}$$

$$\{X61,\ \text{ISOGONAL CONJUGATE OF } X(17),\ X100,\ \text{ANTICOMPLEMENT OF FEUERBACH POINT},$$
$$\Big(3R\Big(-3l^6-2\sqrt{3}\,l^5r-3l^4r^2-4\sqrt{3}\,l^3r^3+3l^2r^4-2\sqrt{3}\,l\,r^5+3r^6+60l^4rR+32\sqrt{3}\,l^3r^2R-$$
$$112l^2r^3R-16\sqrt{3}\,l\,r^4R+36r^5R-208l^2r^2R^2-32\sqrt{3}\,l\,r^3R^2+144r^4R^2+192r^3R^3\Big)\Big)\Big/$$
$$\Big((2r-R)\Big(3l^2+2\sqrt{3}\,l\,r-3r^2-12rR\Big)^2\Big)\Big\}$$

$$\{X62,\ \text{ISOGONAL CONJUGATE OF } X(18),\ X63,$$
$$\text{ISOGONAL CONJUGATE OF } X(19),\ -\frac{1}{(r+R)^2\Big(3l^2-2\sqrt{3}\,l\,r-3r^2-12rR\Big)^2}$$
$$3R\Big(-6l^6r+6\sqrt{3}\,l^5r^2+8l^4r^3-8\sqrt{3}\,l^3r^4-2l^2r^5+2\sqrt{3}\,l\,r^6-3l^6R+2\sqrt{3}\,l^5rR+$$
$$81l^4r^2R-56\sqrt{3}\,l^3r^3R-25l^2r^4R+22\sqrt{3}\,l\,r^5R+3r^6R+60l^4rR^2-48\sqrt{3}\,l^3r^2R^2-$$
$$192l^2r^3R^2+80\sqrt{3}\,l\,r^4R^2+36r^5R^2-208l^2r^2R^3+96\sqrt{3}\,l\,r^3R^3+144r^4R^3+192r^3R^4\Big)\Big\}$$

$$\left\{X62,\ \text{ISOGONAL CONJUGATE OF } X(18),\ X64,\ \text{ISOGONAL CONJUGATE OF } X(20),\right.$$

$$\frac{1}{(1-r-2R)^2\,(1+r+2R)^2\,\left(3\,l^2-2\sqrt{3}\,l\,r-3\,r^2-12\,r\,R\right)^2}$$

$$12\,R^2\,\left(9\,l^8-8\sqrt{3}\,l^7\,r-43\,l^6\,r^2+24\sqrt{3}\,l^5\,r^3+72\,l^4\,r^4-24\sqrt{3}\,l^3\,r^5-43\,l^2\,r^6+\right.$$
$$8\sqrt{3}\,l\,r^7+9\,r^8-144\,l^6\,r\,R+96\sqrt{3}\,l^5\,r^2\,R+488\,l^4\,r^3\,R-192\sqrt{3}\,l^3\,r^4\,R-488\,l^2\,r^5\,R+$$
$$96\sqrt{3}\,l\,r^6\,R+144\,r^7\,R-84\,l^6\,R^2+80\sqrt{3}\,l^5\,r\,R^2+1156\,l^4\,r^2\,R^2-560\sqrt{3}\,l^3\,r^3\,R^2-$$
$$2132\,l^2\,r^4\,R^2+464\sqrt{3}\,l\,r^5\,R^2+948\,r^6\,R^2+1008\,l^4\,r\,R^3-640\sqrt{3}\,l^3\,r^2\,R^3-$$
$$4480\,l^2\,r^3\,R^3+1152\sqrt{3}\,l\,r^4\,R^3+3312\,r^5\,R^3+192\,l^4\,R^4-192\sqrt{3}\,l^3\,r\,R^4-4416\,l^2\,r^2\,R^4+$$
$$\left.\left.1472\sqrt{3}\,l\,r^3\,R^4+6528\,r^4\,R^4-1536\,l^2\,r\,R^5+768\sqrt{3}\,l\,r^2\,R^5+6912\,r^3\,R^5+3072\,r^2\,R^6\right)\right\}$$

$$\left\{X62,\ \text{ISOGONAL CONJUGATE OF } X(18),\ X65,\ \text{ORTHOCENTER OF THE INTOUCH TRIANGLE},\right.$$
$$-\left(\left(3\,r^2\,\left(\sqrt{3}\,l+r+4\,R\right)\,\left(2\sqrt{3}\,l^3\,r-10\,l^2\,r^2+2\sqrt{3}\,l\,r^3+6\,r^4+\sqrt{3}\,l^3\,R-17\,l^2\,r\,R+\sqrt{3}\,l\,r^2\,R+\right.\right.\right.$$
$$\left.\left.\left.39\,r^3\,R-4\,l^2\,R^2-4\sqrt{3}\,l\,r\,R^2+72\,r^2\,R^2+48\,r\,R^3\right)\right)\Big/\left(R\,\left(3\,l^2-2\sqrt{3}\,l\,r-3\,r^2-12\,r\,R\right)^2\right)\right)\Big\}$$

$$\left\{X62,\ \text{ISOGONAL CONJUGATE OF } X(18),\ X66,\ \text{ISOGONAL CONJUGATE OF } X(22),\right.$$
$$\left(3\,\left(2\sqrt{3}\,l^{13}\,r+20\,l^{12}\,r^2-36\sqrt{3}\,l^{11}\,r^3-84\,l^{10}\,r^4+126\sqrt{3}\,l^9\,r^5+152\,l^8\,r^6-184\sqrt{3}\,l^7\,r^7-152\,l^6\,r^8+\right.\right.$$
$$126\sqrt{3}\,l^5\,r^9+84\,l^4\,r^{10}-36\sqrt{3}\,l^3\,r^{11}-20\,l^2\,r^{12}+2\sqrt{3}\,l\,r^{13}-48\sqrt{3}\,l^{11}\,r^2\,R-400\,l^{10}\,r^3\,R+$$
$$624\sqrt{3}\,l^9\,r^4\,R+1408\,l^8\,r^5\,R-1632\sqrt{3}\,l^7\,r^6\,R-2016\,l^6\,r^7\,R+1632\sqrt{3}\,l^5\,r^8\,R+1408\,l^4\,r^9\,R-$$
$$624\sqrt{3}\,l^3\,r^{10}\,R-400\,l^2\,r^{11}\,R+48\sqrt{3}\,l\,r^{12}\,R-3\,l^{12}\,R^2-12\sqrt{3}\,l^{11}\,r\,R^2-214\,l^{10}\,r^2\,R^2+$$
$$748\sqrt{3}\,l^9\,r^3\,R^2+3971\,l^8\,r^4\,R^2-4968\sqrt{3}\,l^7\,r^5\,R^2-9940\,l^6\,r^6\,R^2+8232\sqrt{3}\,l^5\,r^7\,R^2+9603\,l^4\,r^8\,R^2-$$
$$4492\sqrt{3}\,l^3\,r^9\,R^2-3414\,l^2\,r^{10}\,R^2+492\sqrt{3}\,l\,r^{11}\,R^2-3\,r^{12}\,R^2+72\,l^{10}\,r\,R^3+240\sqrt{3}\,l^9\,r^2\,R^3+$$
$$3352\,l^8\,r^3\,R^3-6016\sqrt{3}\,l^7\,r^4\,R^3-22\,320\,l^6\,r^5\,R^3+20\,256\sqrt{3}\,l^5\,r^6\,R^3+34\,096\,l^4\,r^7\,R^3-$$
$$17\,280\sqrt{3}\,l^3\,r^8\,R^3-16\,152\,l^2\,r^9\,R^3+2800\sqrt{3}\,l\,r^{10}\,R^3-72\,r^{11}\,R^3+12\,l^{10}\,R^4+16\sqrt{3}\,l^9\,r\,R^4+$$
$$148\,l^8\,r^2\,R^4-2592\sqrt{3}\,l^7\,r^3\,R^4-21\,800\,l^6\,r^4\,R^4+24\,736\sqrt{3}\,l^5\,r^5\,R^4+66\,440\,l^4\,r^6\,R^4-$$
$$37\,920\sqrt{3}\,l^3\,r^7\,R^4-45\,860\,l^2\,r^8\,R^4+9616\sqrt{3}\,l\,r^9\,R^4-732\,r^{10}\,R^4-240\,l^8\,r\,R^5-256\sqrt{3}\,l^7\,r^2\,R^5-$$
$$6336\,l^6\,r^3\,R^5+13\,312\sqrt{3}\,l^5\,r^4\,R^5+67\,680\,l^4\,r^5\,R^5-46\,592\sqrt{3}\,l^3\,r^6\,R^5-78\,528\,l^2\,r^7\,R^5+$$
$$20\,224\sqrt{3}\,l\,r^8\,R^5-4080\,r^9\,R^5+688\,l^6\,r^2\,R^6+2112\sqrt{3}\,l^5\,r^3\,R^6+29\,536\,l^4\,r^4\,R^6-28\,736\sqrt{3}\,l^3\,r^5\,R^6-$$
$$76\,368\,l^2\,r^6\,R^6+25\,088\sqrt{3}\,l\,r^7\,R^6-13\,440\,r^8\,R^6+2176\,l^4\,r^3\,R^7-6400\sqrt{3}\,l^3\,r^4\,R^7-35\,456\,l^2\,r^5\,R^7+$$
$$\left.\left.16\,384\sqrt{3}\,l\,r^6\,R^7-26\,112\,r^7\,R^7-4352\,l^2\,r^4\,R^8+4096\sqrt{3}\,l\,r^5\,R^8-27\,648\,r^6\,R^8-12\,288\,r^5\,R^9\right)\right)\Big/$$
$$\left((1-r-2R)^2\,(1+r+2R)^2\,\left(3\,l^2-2\sqrt{3}\,l\,r-3\,r^2-12\,r\,R\right)^2\,\left(l^2-r^2-4\,r\,R\right)^2\right)\Big\}$$

$$\left\{X62,\ \text{ISOGONAL CONJUGATE OF } X(18),\ X67,\ \text{ISOGONAL CONJUGATE OF } X(23),\right.$$
$$\left(3\,\left(3\,l^{12}+38\,l^{10}\,r^2-64\sqrt{3}\,l^9\,r^3-131\,l^8\,r^4+192\sqrt{3}\,l^7\,r^5+180\,l^6\,r^6-192\sqrt{3}\,l^5\,r^7-\right.\right.$$
$$131\,l^4\,r^8+64\sqrt{3}\,l^3\,r^9+38\,l^2\,r^{10}+3\,r^{12}-72\,l^{10}\,r\,R-536\,l^8\,r^3\,R+768\sqrt{3}\,l^7\,r^4\,R+$$
$$1584\,l^6\,r^5\,R-1536\sqrt{3}\,l^5\,r^6\,R-1584\,l^4\,r^7\,R+768\sqrt{3}\,l^3\,r^8\,R+536\,l^2\,r^9\,R+72\,r^{11}\,R-$$
$$12\,l^{10}\,R^2+228\,l^8\,r^2\,R^2+480\sqrt{3}\,l^7\,r^3\,R^2+3744\,l^6\,r^4\,R^2-4032\sqrt{3}\,l^5\,r^5\,R^2-6912\,l^4\,r^6\,R^2+$$
$$3552\sqrt{3}\,l^3\,r^7\,R^2+2988\,l^2\,r^8\,R^2+732\,r^{10}\,R^2+240\,l^8\,r\,R^3+1824\,l^6\,r^3\,R^3-3840\sqrt{3}\,l^5\,r^4\,R^3-$$
$$13\,472\,l^4\,r^5\,R^3+7936\sqrt{3}\,l^3\,r^6\,R^3+8480\,l^2\,r^7\,R^3+4080\,r^9\,R^3-660\,l^6\,r^2\,R^4-864\sqrt{3}\,l^5\,r^3\,R^4-$$
$$11\,304\,l^4\,r^4\,R^4+8544\sqrt{3}\,l^3\,r^5\,R^4+13\,292\,l^2\,r^6\,R^4+13\,440\,r^8\,R^4-2400\,l^4\,r^3\,R^5+$$
$$\left.\left.3456\sqrt{3}\,l^3\,r^4\,R^5+11\,616\,l^2\,r^5\,R^5+26\,112\,r^7\,R^5+4800\,l^2\,r^4\,R^6+27\,648\,r^6\,R^6+12\,288\,r^5\,R^7\right)\right)\Big/$$
$$\left(\left(3\,l^2-2\sqrt{3}\,l\,r-3\,r^2-12\,r\,R\right)^2\,\left(l^2-r^2-4\,r\,R\right)^2\,\left(2\,l^2-2\,r^2-8\,r\,R-9\,R^2\right)\right)\Big\}$$

$$\left\{X62,\ \text{ISOGONAL CONJUGATE OF } X(18),\ X68,\ \text{PRASOLOV POINT},\ \frac{1}{(1-r-2R)^2\,(1+r+2R)^2\,\left(3l^2-2\sqrt{3}\,l\,r-3r^2-12\,r\,R\right)^2}\right.$$

$$\left.3\left(2\sqrt{3}\,l^9 r+20\,l^8 r^2-32\sqrt{3}\,l^7 r^3-44\,l^6 r^4+60\sqrt{3}\,l^5 r^5+44\,l^4 r^6-32\sqrt{3}\,l^3 r^7-20\,l^2 r^8+2\sqrt{3}\,l\,r^9-32\sqrt{3}\,l^7 r^2 R-240\,l^6 r^3 R+288\sqrt{3}\,l^5 r^4 R+416\,l^4 r^5 R-288\sqrt{3}\,l^3 r^6 R-240\,l^2 r^7 R+32\sqrt{3}\,l\,r^8 R+3\,l^8 R^2-20\sqrt{3}\,l^7 r R^2-212\,l^6 r^2 R^2+428\sqrt{3}\,l^5 r^3 R^2+1298\,l^4 r^4 R^2-1004\sqrt{3}\,l^3 r^5 R^2-1172\,l^2 r^6 R^2+212\sqrt{3}\,l\,r^7 R^2+3\,r^8 R^2-48\,l^6 r R^3+240\sqrt{3}\,l^5 r^2 R^3+1744\,l^4 r^3 R^3-1696\sqrt{3}\,l^3 r^4 R^3-3024\,l^2 r^5 R^3+752\sqrt{3}\,l\,r^6 R^3+48\,r^7 R^3-12\,l^6 R^4+56\sqrt{3}\,l^5 r R^4+868\,l^4 r^2 R^4-1328\sqrt{3}\,l^3 r^3 R^4-4356\,l^2 r^4 R^4+1528\sqrt{3}\,l\,r^5 R^4+300\,r^6 R^4+144\,l^4 r R^5-448\sqrt{3}\,l^3 r^2 R^5-3232\,l^2 r^3 R^5+1728\sqrt{3}\,l\,r^4 R^5+912\,r^5 R^5+12\,l^4 R^6-48\sqrt{3}\,l^3 r R^6-1032\,l^2 r^2 R^6+944\sqrt{3}\,l\,r^3 R^6+1356\,r^4 R^6-96\,l^2 r R^7+192\sqrt{3}\,l\,r^2 R^7+864\,r^3 R^7+192\,r^2 R^8\right)\right\}$$

$$\left\{X62,\ \text{ISOGONAL CONJUGATE OF } X(18),\ X69,\ \text{SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},\ \frac{1}{\left(3l^2-2\sqrt{3}\,l\,r-3r^2-12\,r\,R\right)^2\left(l^2-r^2-4\,r\,R\right)^2}\right.$$

$$\left.3\left(3l^{10}-2\sqrt{3}\,l^9 r+21\,l^8 r^2-32\sqrt{3}\,l^7 r^3-46\,l^6 r^4+68\sqrt{3}\,l^5 r^5+46\,l^4 r^6-32\sqrt{3}\,l^3 r^7-21\,l^2 r^8-2\sqrt{3}\,l\,r^9-3\,r^{10}-60\,l^8 r R+32\sqrt{3}\,l^7 r^2 R-192\,l^6 r^3 R+224\sqrt{3}\,l^5 r^4 R+376\,l^4 r^5 R-224\sqrt{3}\,l^3 r^6 R-192\,l^2 r^7 R-32\sqrt{3}\,l\,r^8 R-60\,r^9 R+160\,l^6 r^2 R^2+96\sqrt{3}\,l^5 r^3 R^2+736\,l^4 r^4 R^2-544\sqrt{3}\,l^3 r^5 R^2-608\,l^2 r^6 R^2-192\sqrt{3}\,l\,r^7 R^2-480\,r^8 R^2+640\,l^4 r^3 R^3-640\sqrt{3}\,l^3 r^4 R^3-1024\,l^2 r^5 R^3-512\sqrt{3}\,l\,r^6 R^3-1920\,r^7 R^3-1280\,l^2 r^4 R^4-512\sqrt{3}\,l\,r^5 R^4-3840\,r^6 R^4-3072\,r^5 R^5\right)\right\}$$

$$\left\{X62,\ \text{ISOGONAL CONJUGATE OF } X(18),\ X70,\ \text{ISOGONAL CONJUGATE OF } X(26),\right.$$

$$\left(3\left(2\sqrt{3}\,l^{13} r+20\,l^{12} r^2-36\sqrt{3}\,l^{11} r^3-84\,l^{10} r^4+126\sqrt{3}\,l^9 r^5+152\,l^8 r^6-184\sqrt{3}\,l^7 r^7-152\,l^6 r^8+126\sqrt{3}\,l^5 r^9+84\,l^4 r^{10}-36\sqrt{3}\,l^3 r^{11}-20\,l^2 r^{12}+2\sqrt{3}\,l\,r^{13}-48\sqrt{3}\,l^{11} r^2 R-400\,l^{10} r^3 R+624\sqrt{3}\,l^9 r^4 R+1408\,l^8 r^5 R-1632\sqrt{3}\,l^7 r^6 R-2016\,l^6 r^7 R+1632\sqrt{3}\,l^5 r^8 R+1408\,l^4 r^9 R-624\sqrt{3}\,l^3 r^{10} R-400\,l^2 r^{11} R+48\sqrt{3}\,l\,r^{12} R-24\sqrt{3}\,l^{11} r R^2-296\,l^{10} r^2 R^2+888\sqrt{3}\,l^9 r^3 R^2+4224\,l^8 r^4 R^2-5328\sqrt{3}\,l^7 r^5 R^2-10288\,l^6 r^6 R^2+8592\sqrt{3}\,l^5 r^7 R^2+9856\,l^4 r^8 R^2-4632\sqrt{3}\,l^3 r^9 R^2-3496\,l^2 r^{10} R^2+504\sqrt{3}\,l\,r^{11} R^2+480\sqrt{3}\,l^9 r^2 R^3+4736\,l^8 r^3 R^3-7936\sqrt{3}\,l^7 r^4 R^3-25728\,l^6 r^5 R^3+23616\sqrt{3}\,l^5 r^6 R^3+37504\,l^4 r^7 R^3-19200\sqrt{3}\,l^3 r^8 R^3-17536\,l^2 r^9 R^3+3040\sqrt{3}\,l\,r^{10} R^3-3\,l^{10} R^4+108\sqrt{3}\,l^9 r R^4+1639\,l^8 r^2 R^4-5504\sqrt{3}\,l^7 r^3 R^4-32790\,l^6 r^4 R^4+36136\sqrt{3}\,l^5 r^5 R^4+84246\,l^4 r^6 R^4-48512\sqrt{3}\,l^3 r^7 R^4-55655\,l^2 r^8 R^4+11628\sqrt{3}\,l\,r^9 R^4+3\,r^{10} R^4+60\,l^8 r R^5-1728\sqrt{3}\,l^7 r^2 R^5-19728\,l^6 r^3 R^5+30400\sqrt{3}\,l^5 r^4 R^5+113000\,l^4 r^5 R^5-76480\sqrt{3}\,l^3 r^6 R^5-115984\,l^2 r^7 R^5+29376\sqrt{3}\,l\,r^8 R^5+60\,r^9 R^5+18\,l^8 R^6-224\sqrt{3}\,l^7 r R^6-4512\,l^6 r^2 R^6+13184\sqrt{3}\,l^5 r^3 R^6+86844\,l^4 r^4 R^6-73984\sqrt{3}\,l^3 r^5 R^6-159200\,l^2 r^6 R^6+49504\sqrt{3}\,l\,r^7 R^6+498\,r^8 R^6-288\,l^6 r R^7+2688\sqrt{3}\,l^5 r^2 R^7+34464\,l^4 r^3 R^7-41600\sqrt{3}\,l^3 r^4 R^7-140320\,l^2 r^5 R^7+54912\sqrt{3}\,l\,r^6 R^7+2208\,r^7 R^7-27\,l^6 R^8+210\sqrt{3}\,l^5 r R^8+5877\,l^4 r^2 R^8-12348\sqrt{3}\,l^3 r^3 R^8-74805\,l^2 r^4 R^8+38610\sqrt{3}\,l\,r^5 R^8+5595\,r^6 R^8+324\,l^4 r R^9-1680\sqrt{3}\,l^3 r^2 R^9-21528\,l^2 r^3 R^9+16016\sqrt{3}\,l\,r^4 R^9+8004\,r^5 R^9+12\,l^4 R^{10}-72\sqrt{3}\,l^3 r R^{10}-2760\,l^2 r^2 R^{10}+3432\sqrt{3}\,l\,r^3 R^{10}+5916\,r^4 R^{10}-96\,l^2 r R^{11}+288\sqrt{3}\,l\,r^2 R^{11}+1824\,r^3 R^{11}+192\,r^2 R^{12}\right)\right)\Big/$$

$$\left.\left(\left(3l^2-2\sqrt{3}\,l\,r-3r^2-12\,r\,R\right)^2\left(l^4-2\,l^2 r^2+r^4-8\,l^2 r R+8\,r^3 R-6\,l^2 R^2+22\,r^2 R^2+24\,r R^3+7\,R^4\right)^2\right)\right\}$$

$$\left\{X62,\ \text{ISOGONAL CONJUGATE OF } X(18),\ X71,\ \text{ISOGONAL CONJUGATE OF } X(27),\right.$$

$$\left(12\,l^2 R^2\left(9\,l^6-8\sqrt{3}\,l^5 r-37\,l^4 r^2+24\sqrt{3}\,l^3 r^3-13\,l^2 r^4+r^6-84\,l^4 r R+64\sqrt{3}\,l^3 r^2 R-72\,l^2 r^3 R+12\,r^5 R+12\,l^4 R^2+16\sqrt{3}\,l^3 r R^2-176\,l^2 r^2 R^2+52\,r^4 R^2-192\,l^2 r R^3+96\,r^3 R^3+64\,r^2 R^4\right)\right)\Big/$$

$$\left.\left(\left(3l^2-2\sqrt{3}\,l\,r-3r^2-12\,r\,R\right)^2\left(l^2+r^2+6\,r R+8\,R^2\right)^2\right)\right\}$$

$$\left\{X62,\ \text{ISOGONAL CONJUGATE OF } X(18),\ X72,\ \text{ISOGONAL CONJUGATE OF } X(28),\ -\frac{1}{R\left(3 l^2-2\sqrt{3}\, l\, r-3 r^2-12 r R\right)^2}\right.$$
$$3\left(-3 l^6 r+4\sqrt{3}\, l^5 r^2+5 l^4 r^3-8\sqrt{3}\, l^3 r^4-5 l^2 r^5+4\sqrt{3}\, l\, r^6+3 r^7-3 l^6 R+2\sqrt{3}\, l^5 r R+\right.$$
$$42 l^4 r^2 R-36\sqrt{3}\, l^3 r^3 R-55 l^2 r^4 R+34\sqrt{3}\, l\, r^5 R+36 r^6 R+60 l^4 r R^2-44\sqrt{3}\, l^3 r^2 R^2-$$
$$\left.\left.192 l^2 r^3 R^2+92\sqrt{3}\, l\, r^4 R^2+156 r^5 R^2-208 l^2 r^2 R^3+80\sqrt{3}\, l\, r^3 R^3+288 r^4 R^3+192 r^3 R^4\right)\right\}$$

$$\left\{X62,\ \text{ISOGONAL CONJUGATE OF } X(18),\ X73,\ \text{CROSSPOINT OF INCENTER AND CIRCUMCENTER},\right.$$
$$\frac{1}{\left(3 l^2-2\sqrt{3}\, l\, r-3 r^2-12 r R\right)^2\left(l^2+r^2-2 r R-4 R^2\right)^2}$$
$$12 r^2 R^2\left(l^6-13 l^4 r^2-24\sqrt{3}\, l^3 r^3-37 l^2 r^4+8\sqrt{3}\, l\, r^5+9 r^6-16 l^4 r R-32\sqrt{3}\, l^3 r^2 R-80 l^2 r^3 R+\right.$$
$$64\sqrt{3}\, l\, r^4 R+96 r^5 R-20 l^4 R^2+32\sqrt{3}\, l^3 r R^2+128 l^2 r^2 R^2+144\sqrt{3}\, l\, r^3 R^2+324 r^4 R^2+$$
$$\left.\left.304 l^2 r R^3+32\sqrt{3}\, l\, r^2 R^3+240 r^3 R^3+64 l^2 R^4-128\sqrt{3}\, l\, r R^4-576 r^2 R^4-768 r R^5\right)\right\}$$

$$\left\{X62,\ \text{ISOGONAL CONJUGATE OF } X(18),\ X74,\ \text{ISOGONAL CONJUGATE OF EULER INFINITY POINT},\right.$$
$$-\frac{1}{\left(3 l^2-2\sqrt{3}\, l\, r-3 r^2-12 r R\right)^2\left(2 l^2-2 r^2-8 r R-9 R^2\right)}$$
$$3 R^2\left(-27 l^6+18\sqrt{3}\, l^5 r+181 l^4 r^2-60\sqrt{3}\, l^3 r^3-181 l^2 r^4+18\sqrt{3}\, l\, r^5+27 r^6+324 l^4 r R-\right.$$
$$144\sqrt{3}\, l^3 r^2 R-1048 l^2 r^3 R+144\sqrt{3}\, l\, r^4 R+324 r^5 R+108 l^4 R^2-72\sqrt{3}\, l^3 r R^2-$$
$$\left.\left.1800 l^2 r^2 R^2+360\sqrt{3}\, l\, r^3 R^2+1404 r^4 R^2-864 l^2 r R^3+288\sqrt{3}\, l\, r^2 R^3+2592 r^3 R^3+1728 r^2 R^4\right)\right\}$$

$$\left\{X62,\ \text{ISOGONAL CONJUGATE OF } X(18),\ X75,\ \text{ISOTOMIC CONJUGATE OF INCENTER},\ \frac{1}{\left(3 l^2-2\sqrt{3}\, l\, r-3 r^2-12 r R\right)^2\left(l^2+r^2+4 r R\right)^2}\right.$$
$$3\left(3 l^{10}-2\sqrt{3}\, l^9 r+9 l^8 r^2-8\sqrt{3}\, l^7 r^3+6 l^6 r^4-12\sqrt{3}\, l^5 r^5-6 l^4 r^6-8\sqrt{3}\, l^3 r^7-9 l^2 r^8-\right.$$
$$2\sqrt{3}\, l\, r^9-3 r^{10}-60 l^8 r R+48\sqrt{3}\, l^7 r^2 R+64 l^6 r^3 R-128\sqrt{3}\, l^5 r^4 R-72 l^4 r^5 R+48\sqrt{3}\, l^3 r^6 R-$$
$$32\sqrt{3}\, l\, r^8 R-60 r^9 R+256 l^6 r^2 R^2-224\sqrt{3}\, l^5 r^3 R^2-640 l^4 r^4 R^2+480\sqrt{3}\, l^3 r^5 R^2+$$
$$544 l^2 r^6 R^2-192\sqrt{3}\, l\, r^7 R^2-480 r^8 R^2-1024 l^4 r^3 R^3+640\sqrt{3}\, l^3 r^4 R^3+2048 l^2 r^5 R^3-$$
$$\left.\left.512\sqrt{3}\, l\, r^6 R^3-1920 r^7 R^3+1792 l^2 r^4 R^4-512\sqrt{3}\, l\, r^5 R^4-3840 r^6 R^4-3072 r^5 R^5\right)\right\}$$

$$\left\{X62,\ \text{ISOGONAL CONJUGATE OF } X(18),\ X76,\ \text{3rd BROCARD POINT},\right.$$
$$\left(3\left(3 l^{14}-2\sqrt{3}\, l^{13} r+15 l^{12} r^2-12\sqrt{3}\, l^{11} r^3+27 l^{10} r^4-30\sqrt{3}\, l^9 r^5+15 l^8 r^6-40\sqrt{3}\, l^7 r^7-15 l^6 r^8-\right.\right.$$
$$30\sqrt{3}\, l^5 r^9-27 l^4 r^{10}-12\sqrt{3}\, l^3 r^{11}-15 l^2 r^{12}-2\sqrt{3}\, l\, r^{13}-3 r^{14}-84 l^{12} r R+48\sqrt{3}\, l^{11} r^2 R-$$
$$216 l^{10} r^3 R+144\sqrt{3}\, l^9 r^4 R-108 l^8 r^5 R+96\sqrt{3}\, l^7 r^6 R+48 l^6 r^7 R-96\sqrt{3}\, l^5 r^8 R-108 l^4 r^9 R-$$
$$144\sqrt{3}\, l^3 r^{10} R-216 l^2 r^{11} R-48\sqrt{3}\, l\, r^{12} R-84 r^{13} R+688 l^{10} r^2 R^2-224\sqrt{3}\, l^9 r^3 R^2+$$
$$1232 l^8 r^4 R^2-1152\sqrt{3}\, l^7 r^5 R^2-672 l^6 r^6 R^2+960\sqrt{3}\, l^5 r^7 R^2+800 l^4 r^8 R^2-640\sqrt{3}\, l^3 r^9 R^2-$$
$$1040 l^2 r^{10} R^2-480\sqrt{3}\, l\, r^{11} R^2-1008 r^{12} R^2-1600 l^8 r^3 R^3-512\sqrt{3}\, l^7 r^4 R^3-5376 l^6 r^5 R^3+$$
$$4608\sqrt{3}\, l^5 r^6 R^3+5760 l^4 r^7 R^3-1536\sqrt{3}\, l^3 r^8 R^3-1280 l^2 r^9 R^3-2560\sqrt{3}\, l\, r^{10} R^3-$$
$$6720 r^{11} R^3-3840 l^6 r^4 R^4+4608\sqrt{3}\, l^5 r^5 R^4+14592 l^4 r^6 R^4-3072\sqrt{3}\, l^3 r^7 R^4+3840 l^2 r^8 R^4-$$
$$7680\sqrt{3}\, l\, r^9 R^4-26880 r^{10} R^4+17408 l^4 r^5 R^5-4096\sqrt{3}\, l^3 r^6 R^5+10240 l^2 r^7 R^5-$$
$$\left.\left.12288\sqrt{3}\, l\, r^8 R^5-64512 r^9 R^5+4096 l^2 r^6 R^6-8192\sqrt{3}\, l\, r^7 R^6-86016 r^8 R^6-49152 r^7 R^7\right)\right)\Big/$$
$$\left.\left(\left(3 l^2-2\sqrt{3}\, l\, r-3 r^2-12 r R\right)^2\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)^2\right)\right\}$$

$$\Big\{X62,\ \text{ISOGONAL CONJUGATE OF } X(18),\ X77,$$

$$\text{ISOGONAL CONJUGATE OF } X(33),\ -\frac{1}{\left(3 l^2-2\sqrt{3}\, l\, r-3 r^2-12 r R\right)^2\left(l^2-r R-4 R^2\right)^2}$$

$$3 r^2 R\left(-2\sqrt{3}\, l^7-2 l^6 r+8\sqrt{3}\, l^5 r^2+8 l^4 r^3-6\sqrt{3}\, l^3 r^4-6 l^2 r^5-19 l^6 R+46\sqrt{3}\, l^5 r R+121 l^4 r^2 R-48\sqrt{3}\, l^3 r^3 R-81 l^2 r^4 R+2\sqrt{3}\, l r^5 R+3 r^6 R+8\sqrt{3}\, l^5 R^2+340 l^4 r R^2-168\sqrt{3}\, l^3 r^2 R^2-480 l^2 r^3 R^2+32\sqrt{3}\, l r^4 R^2+60 r^5 R^2+128 l^4 R^3-288\sqrt{3}\, l^3 r R^3-1504 l^2 r^2 R^3+192\sqrt{3}\, l r^3 R^3+480 r^4 R^3-2048 l^2 r R^4+512\sqrt{3}\, l r^2 R^4+1920 r^3 R^4-256 l^2 R^5+512\sqrt{3}\, l r R^5+3840 r^2 R^5+3072 r R^6\right)\Big\}$$

$$\Big\{X62,\ \text{ISOGONAL CONJUGATE OF } X(18),\ X78,$$

$$\text{ISOGONAL CONJUGATE OF } X(34),\ -\frac{1}{(r-R)^2\left(3 l^2-2\sqrt{3}\, l\, r-3 r^2-12 r R\right)^2}$$

$$3 R\left(2\sqrt{3}\, l^5 r^2+2 l^4 r^3-8\sqrt{3}\, l^3 r^4-8 l^2 r^5+6\sqrt{3}\, l r^6+6 r^7-3 l^6 R+2\sqrt{3}\, l^5 r R-3 l^4 r^2 R-16\sqrt{3}\, l^3 r^3 R-l^2 r^4 R+46\sqrt{3}\, l r^5 R+63 r^6 R+60 l^4 r R^2-40\sqrt{3}\, l^3 r^2 R^2-144 l^2 r^3 R^2+104\sqrt{3}\, l r^4 R^2+228 r^5 R^2-208 l^2 r^2 R^3+64\sqrt{3}\, l r^3 R^3+336 r^4 R^3+192 r^3 R^4\right)\Big\}$$

$$\Big\{X62,\ \text{ISOGONAL CONJUGATE OF } X(18),\ X79,$$

$$\text{ISOGONAL CONJUGATE OF } X(35),\ -\frac{1}{(2 r+3 R)^2\left(3 l^2-2\sqrt{3}\, l\, r-3 r^2-12 r R\right)^2}12 r^2$$

$$\left(6 l^6-10\sqrt{3}\, l^5 r-12 l^4 r^2+20\sqrt{3}\, l^3 r^3+14 l^2 r^4-2\sqrt{3}\, l r^5-3\sqrt{3}\, l^5 R-69 l^4 r R+74\sqrt{3}\, l^3 r^2 R+94 l^2 r^3 R-19\sqrt{3}\, l r^4 R+3 r^5 R-18 l^4 R^2+48\sqrt{3}\, l^3 r R^2+176 l^2 r^2 R^2-56\sqrt{3}\, l r^3 R^2+42 r^4 R^2+9\sqrt{3}\, l^3 R^3+51 l^2 r R^3-39\sqrt{3}\, l r^2 R^3+219 r^3 R^3-36 l^2 R^4+36\sqrt{3}\, l r R^4+504 r^2 R^4+432 r R^5\right)\Big\}$$

$$\Big\{X62,\ \text{ISOGONAL CONJUGATE OF } X(18),\ X80,\ \text{REFLECTION OF INCENTER IN FEUERBACH POINT},$$

$$\left(12 r^2\left(\sqrt{3}\, l^5+7 l^4 r-10\sqrt{3}\, l^3 r^2-6 l^2 r^3+5\sqrt{3}\, l r^4+3 r^5-10\sqrt{3}\, l^3 r R-42 l^2 r^2 R+30\sqrt{3}\, l r^3 R+30 r^4 R-3\sqrt{3}\, l^3 R^2-37 l^2 r R^2+45\sqrt{3}\, l r^2 R^2+99 r^3 R^2-4 l^2 R^3+20\sqrt{3}\, l r R^3+120 r^2 R^3+48 r R^4\right)\right)\Big/\left((2 r-R)\left(3 l^2-2\sqrt{3}\, l\, r-3 r^2-12 r R\right)^2\right)\Big\}$$

$$\Big\{X62,\ \text{ISOGONAL CONJUGATE OF } X(18),\ X81,$$

$$\text{CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},\ -\frac{1}{\left(3 l^2-2\sqrt{3}\, l\, r-3 r^2-12 r R\right)^2\left(l^2-r^2-r R\right)^2}$$

$$3 r^2 R\left(-2\sqrt{3}\, l^7+4 l^6 r-2\sqrt{3}\, l^5 r^2+8 l^4 r^3+2\sqrt{3}\, l^3 r^4+4 l^2 r^5+2\sqrt{3}\, l r^6-7 l^6 R+22\sqrt{3}\, l^5 r R+5 l^4 r^2 R+12\sqrt{3}\, l^3 r^3 R+47 l^2 r^4 R+22\sqrt{3}\, l r^5 R+3 r^6 R+44 l^4 r R^2+64\sqrt{3}\, l^3 r^2 R^2+96 l^2 r^3 R^2+80\sqrt{3}\, l r^4 R^2+36 r^5 R^2+176 l^2 r^2 R^3+96\sqrt{3}\, l r^3 R^3+144 r^4 R^3+192 r^3 R^4\right)\Big\}$$

$$\Big\{X62,\ \text{ISOGONAL CONJUGATE OF } X(18),\ X82,\ \text{ISOGONAL CONJUGATE OF } X(38),$$

$$-\Big(\Big(3 r^2 R\left(-2\sqrt{3}\, l^{11}+10 l^{10} r-6\sqrt{3}\, l^9 r^2+14 l^8 r^3-4\sqrt{3}\, l^7 r^4-12 l^6 r^5+4\sqrt{3}\, l^5 r^6-20 l^4 r^7+6\sqrt{3}\, l^3 r^8+2 l^2 r^9+2\sqrt{3}\, l r^{10}+6 r^{11}-7 l^{10} R+62\sqrt{3}\, l^9 r R-177 l^8 r^2 R-80\sqrt{3}\, l^7 r^3 R+170 l^6 r^4 R+220\sqrt{3}\, l^5 r^5 R-290 l^4 r^6 R-96\sqrt{3}\, l^3 r^7 R+29 l^2 r^8 R+54\sqrt{3}\, l r^9 R+147 r^{10} R+156 l^8 r R^2-624\sqrt{3}\, l^7 r^2 R^2+704 l^6 r^3 R^2+1472\sqrt{3}\, l^5 r^4 R^2-1144 l^4 r^5 R^2-1456\sqrt{3}\, l^3 r^6 R^2-192 l^2 r^7 R^2+544\sqrt{3}\, l r^8 R^2+1500 r^9 R^2-1376 l^6 r^2 R^3+3104\sqrt{3}\, l^5 r^3 R^3+704 l^4 r^4 R^3-5792\sqrt{3}\, l^3 r^5 R^3-3584 l^2 r^6 R^3+2624\sqrt{3}\, l r^7 R^3+8160 r^8 R^3+6912 l^4 r^3 R^4-7552\sqrt{3}\, l^3 r^4 R^4-14592 l^2 r^5 R^4+6144\sqrt{3}\, l r^6 R^4+24960 r^7 R^4-18688 l^2 r^4 R^5+5632\sqrt{3}\, l r^5 R^5+40704 r^6 R^5+27648 r^5 R^6\right)\Big)\Big/\left(\left(3 l^2-2\sqrt{3}\, l\, r-3 r^2-12 r R\right)^2\left(l^4-4 l^2 r^2+3 r^4-9 l^2 r R+19 r^3 R+28 r^2 R^2\right)^2\right)\Big)\Big\}$$

$$\Big\{X62,\ \text{ISOGONAL CONJUGATE OF } X(18),\ X83,\ \text{CEVAPOINT OF CENTROID AND SYMMEDIAN POINT},$$
$$\Big(3\left(l^2+2\sqrt{3}\,l\,r-r^2-4\,r\,R\right)\left(3\,l^{12}+2\,l^{10}\,r^2-19\,l^8\,r^4-36\,l^6\,r^6-19\,l^4\,r^8+2\,l^2\,r^{10}+3\,r^{12}-72\,l^{10}\,r\,R+40\,l^8\,r^3\,R+112\,l^6\,r^5\,R-112\,l^4\,r^7\,R-40\,l^2\,r^9\,R+72\,r^{11}\,R+496\,l^8\,r^2\,R^2-672\,l^6\,r^4\,R^2+448\,l^4\,r^6\,R^2-736\,l^2\,r^8\,R^2+720\,r^{10}\,R^2-1152\,l^6\,r^3\,R^3+2560\,l^4\,r^5\,R^3-3712\,l^2\,r^7\,R^3+3840\,r^9\,R^3+768\,l^4\,r^4\,R^4-7168\,l^2\,r^6\,R^4+11520\,r^8\,R^4-4096\,l^2\,r^5\,R^5+18432\,r^7\,R^5+12288\,r^6\,R^6\right)\Big)\Big/$$
$$\left(\left(3\,l^2-2\sqrt{3}\,l\,r-3\,r^2-12\,r\,R\right)^2\left(5\,l^4-6\,l^2\,r^2+5\,r^4-40\,l^2\,r\,R+40\,r^3\,R+80\,r^2\,R^2\right)^2\right)\Big\}$$

$$\Big\{X62,\ \text{ISOGONAL CONJUGATE OF } X(18),\ X84,$$
$$\text{ISOGONAL CONJUGATE OF } X(40),\ \frac{1}{r^2\left(3\,l^2-2\sqrt{3}\,l\,r-3\,r^2-12\,r\,R\right)^2}$$
$$12\,R\left(3\,l^6\,r-3\sqrt{3}\,l^5\,r^2-l^4\,r^3+\sqrt{3}\,l^3\,r^4-3\,l^6\,R+4\sqrt{3}\,l^5\,r\,R-28\,l^4\,r^2\,R+12\sqrt{3}\,l^3\,r^3\,R+7\,l^2\,r^4\,R+24\,l^4\,r\,R^2-20\sqrt{3}\,l^3\,r^2\,R^2+56\,l^2\,r^3\,R^2+4\sqrt{3}\,l\,r^4\,R^2+12\,l^4\,R^3-16\sqrt{3}\,l^3\,r\,R^3-56\,l^2\,r^2\,R^3+32\sqrt{3}\,l\,r^3\,R^3+12\,r^4\,R^3-96\,l^2\,r\,R^4+64\sqrt{3}\,l\,r^2\,R^4+96\,r^3\,R^4+192\,r^2\,R^5\right)\Big\}$$

$$\Big\{X62,\ \text{ISOGONAL CONJUGATE OF } X(18),\ X85,\ \text{ISOTOMIC CONJUGATE OF } X(9),$$
$$\frac{1}{\left(3\,l^2-2\sqrt{3}\,l\,r-3\,r^2-12\,r\,R\right)^2\left(l^2+r^2+8\,r\,R+16\,R^2\right)^2}$$
$$3\left(3\,l^{10}-2\sqrt{3}\,l^9\,r+9\,l^8\,r^2-8\sqrt{3}\,l^7\,r^3+6\,l^6\,r^4-12\sqrt{3}\,l^5\,r^5-6\,l^4\,r^6-8\sqrt{3}\,l^3\,r^7-9\,l^2\,r^8-2\sqrt{3}\,l\,r^9-3\,r^{10}-84\,l^8\,r\,R+96\sqrt{3}\,l^7\,r^2\,R+96\,l^6\,r^3\,R-176\sqrt{3}\,l^5\,r^4\,R-88\,l^4\,r^5\,R-64\sqrt{3}\,l^3\,r^6\,R-96\,l^2\,r^7\,R-48\sqrt{3}\,l\,r^8\,R-84\,r^9\,R+32\sqrt{3}\,l^7\,r\,R^2+624\,l^6\,r^2\,R^2-640\sqrt{3}\,l^5\,r^3\,R^2-624\,l^4\,r^4\,R^2-80\,l^2\,r^6\,R^2-480\sqrt{3}\,l\,r^7\,R^2-1008\,r^8\,R^2+192\,l^6\,r\,R^3-512\sqrt{3}\,l^5\,r^2\,R^3-2304\,l^4\,r^3\,R^3+1024\sqrt{3}\,l^3\,r^4\,R^3+2560\,l^2\,r^5\,R^3-2560\sqrt{3}\,l\,r^6\,R^3-6720\,r^7\,R^3-3328\,l^4\,r^2\,R^4+2048\sqrt{3}\,l^3\,r^3\,R^4+11520\,l^2\,r^4\,R^4-7680\sqrt{3}\,l\,r^5\,R^4-26880\,r^6\,R^4+16384\,l^2\,r^3\,R^5-12288\sqrt{3}\,l\,r^4\,R^5-64512\,r^5\,R^5+4096\,l^2\,r^2\,R^6-8192\sqrt{3}\,l\,r^3\,R^6-86016\,r^4\,R^6-49152\,r^3\,R^7\right)\Big\}$$

$$\Big\{X62,\ \text{ISOGONAL CONJUGATE OF } X(18),\ X86,$$
$$\text{CEVAPOINT OF INCENTER AND CENTROID},\ \frac{1}{\left(3\,l^2-2\sqrt{3}\,l\,r-3\,r^2-12\,r\,R\right)^2\left(5\,l^2+r^2+4\,r\,R\right)^2}$$
$$3\left(3\,l^{10}+6\sqrt{3}\,l^9\,r+17\,l^8\,r^2-16\sqrt{3}\,l^7\,r^3-2\,l^6\,r^4-52\sqrt{3}\,l^5\,r^5-46\,l^4\,r^6-32\sqrt{3}\,l^3\,r^7-33\,l^2\,r^8-2\sqrt{3}\,l\,r^9-3\,r^{10}-12\,l^8\,r\,R-32\sqrt{3}\,l^7\,r^2\,R+96\,l^6\,r^3\,R-224\sqrt{3}\,l^5\,r^4\,R-216\,l^4\,r^5\,R-224\sqrt{3}\,l^3\,r^6\,R-384\,l^2\,r^7\,R-32\sqrt{3}\,l\,r^8\,R-60\,r^9\,R-320\,l^6\,r^2\,R^2-352\sqrt{3}\,l^5\,r^3\,R^2-832\,l^4\,r^4\,R^2-544\sqrt{3}\,l^3\,r^5\,R^2-1760\,l^2\,r^6\,R^2-192\sqrt{3}\,l\,r^7\,R^2-480\,r^8\,R^2-2048\,l^4\,r^3\,R^3-640\sqrt{3}\,l^3\,r^4\,R^3-4096\,l^2\,r^5\,R^3-512\sqrt{3}\,l\,r^6\,R^3-1920\,r^7\,R^3-4352\,l^2\,r^4\,R^4-512\sqrt{3}\,l\,r^5\,R^4-3840\,r^6\,R^4-3072\,r^5\,R^5\right)\Big\}$$

$$\Big\{X62,\ \text{ISOGONAL CONJUGATE OF } X(18),\ X87,\ X(2)\text{-CROSS CONJUGATE OF } X(1),$$
$$\Big(12\,r^2\,R\left(-\sqrt{3}\,l^{11}-l^{10}\,r-\sqrt{3}\,l^9\,r^2-l^8\,r^3+6\sqrt{3}\,l^7\,r^4+6\,l^6\,r^5+14\sqrt{3}\,l^5\,r^6+14\,l^4\,r^7+11\sqrt{3}\,l^3\,r^8+11\,l^2\,r^9+3\sqrt{3}\,l\,r^{10}+3\,r^{11}+4\,l^{10}\,R+24\sqrt{3}\,l^9\,r\,R-4\,l^8\,r^2\,R-16\sqrt{3}\,l^7\,r^3\,R-104\,l^6\,r^4\,R-64\sqrt{3}\,l^5\,r^5\,R-120\,l^4\,r^6\,R+16\sqrt{3}\,l^3\,r^7\,R+36\,l^2\,r^8\,R+40\sqrt{3}\,l\,r^9\,R+60\,r^{10}\,R-64\,l^8\,r\,R^2-96\sqrt{3}\,l^7\,r^2\,R^2+672\,l^6\,r^3\,R^2-32\sqrt{3}\,l^5\,r^4\,R^2-32\,l^4\,r^5\,R^2+224\sqrt{3}\,l^3\,r^6\,R^2-288\,l^2\,r^7\,R^2+160\sqrt{3}\,l\,r^8\,R^2+480\,r^9\,R^2+128\,l^6\,r^2\,R^3-512\sqrt{3}\,l^5\,r^3\,R^3-896\,l^4\,r^4\,R^3+1536\sqrt{3}\,l^3\,r^5\,R^3-1152\,l^2\,r^6\,R^3+1920\,r^8\,R^3-2048\,l^4\,r^3\,R^4+768\sqrt{3}\,l^3\,r^4\,R^4-256\,l^2\,r^5\,R^4-1280\sqrt{3}\,l\,r^6\,R^4+3840\,r^7\,R^4+1024\,l^2\,r^4\,R^5-2048\sqrt{3}\,l\,r^5\,R^5+3072\,r^6\,R^5\right)\Big)\Big/$$
$$\left(\left(3\,l^2-2\sqrt{3}\,l\,r-3\,r^2-12\,r\,R\right)^2\left(l^4+2\,l^2\,r^2+r^4-20\,l^2\,r\,R+12\,r^3\,R+32\,r^2\,R^2\right)^2\right)\Big\}$$

$$\Big\{X62,\ \text{ISOGONAL CONJUGATE OF } X(18),\ X88,$$

$$\text{ISOGONAL CONJUGATE OF } X(44),\ -\frac{1}{\left(l^2+3r^2-15rR\right)^2\left(3l^2-2\sqrt{3}\,lr-3r^2-12rR\right)^2}$$

$$3r^2R\Big(2\sqrt{3}\,l^7+20l^6r-6\sqrt{3}\,l^5r^2+168l^4r^3-210\sqrt{3}\,l^3r^4-108l^2r^5+$$
$$54\sqrt{3}\,lr^6-7l^6R-42\sqrt{3}\,l^5rR-123l^4r^2R+156\sqrt{3}\,l^3r^3R-225l^2r^4R+$$
$$486\sqrt{3}\,lr^5R+243r^6R+60l^4rR^2+96\sqrt{3}\,l^3r^2R^2-5040l^2r^3R^2+1296\sqrt{3}\,lr^4R^2+$$
$$2916r^5R^2-144l^2r^2R^3+864\sqrt{3}\,lr^3R^3+11664r^4R^3+15552r^3R^4\Big)\Big\}$$

$$\Big\{X62,\ \text{ISOGONAL CONJUGATE OF } X(18),\ X89,$$

$$\text{ISOGONAL CONJUGATE OF } X(45),\ -\frac{1}{\left(3l^2-2\sqrt{3}\,lr-3r^2-12rR\right)^2\left(2l^2-6r^2+3rR\right)^2}$$

$$3r^2R\Big(-4\sqrt{3}\,l^7+32l^6r-60\sqrt{3}\,l^5r^2+288l^4r^3-204\sqrt{3}\,l^3r^4+108\sqrt{3}\,lr^6-$$
$$19l^6R+30\sqrt{3}\,l^5rR+45l^4r^2R-660\sqrt{3}\,l^3r^3R+531l^2r^4R+1134\sqrt{3}\,lr^5R+$$
$$243r^6R-108l^4rR^2+624\sqrt{3}\,l^3r^2R^2-3528l^2r^3R^2+3888\sqrt{3}\,lr^4R^2+$$
$$2916r^5R^2+720l^2r^2R^3+4320\sqrt{3}\,lr^3R^3+11664r^4R^3+15552r^3R^4\Big)\Big\}$$

$$\Big\{X62,\ \text{ISOGONAL CONJUGATE OF } X(18),\ X90,\ X(3)\text{-CROSS CONJUGATE OF } X(1),$$

$$\frac{1}{\left(3l^2-2\sqrt{3}\,lr-3r^2-12rR\right)^2\left(r^2+2rR-R^2\right)^2}12r^2R$$

$$\Big(3l^6r-3\sqrt{3}\,l^5r^2-l^4r^3+\sqrt{3}\,l^3r^4+2\sqrt{3}\,l^5rR-28l^4r^2R+10\sqrt{3}\,l^3r^3R+4l^2r^4R-\sqrt{3}\,l^5R^2-$$
$$16l^4rR^2+4\sqrt{3}\,l^3r^2R^2+36l^2r^3R^2+\sqrt{3}\,lr^4R^2+2\sqrt{3}\,l^3rR^3+60l^2r^2R^3+6\sqrt{3}\,lr^3R^3+$$
$$3\sqrt{3}\,l^3R^4+29l^2rR^4+3\sqrt{3}\,lr^2R^4-3r^3R^4+4l^2R^5-20\sqrt{3}\,lrR^5-24r^2R^5-48rR^6\Big)\Big\}$$

$$\Big\{X62,\ \text{ISOGONAL CONJUGATE OF } X(18),\ X91,\ \text{ISOGONAL CONJUGATE OF } X(47),$$

$$-\Big(\Big(3r^2\Big(-3l^{10}+2\sqrt{3}\,l^9r-9l^8r^2+8\sqrt{3}\,l^7r^3-6l^6r^4+12\sqrt{3}\,l^5r^5+6l^4r^6+8\sqrt{3}\,l^3r^7+9l^2r^8+$$
$$2\sqrt{3}\,lr^9+3r^{10}+2\sqrt{3}\,l^9R+74l^8rR-64\sqrt{3}\,l^7r^2R-48l^6r^3R+100\sqrt{3}\,l^5r^4R+$$
$$68l^4r^5R-48\sqrt{3}\,l^3r^6R+42\sqrt{3}\,lr^8R+66r^9R+24l^8R^2-52\sqrt{3}\,l^7rR^2-452l^6r^2R^2+$$
$$404\sqrt{3}\,l^5r^3R^2+692l^4r^4R^2-604\sqrt{3}\,l^3r^5R^2-652l^2r^6R^2+348\sqrt{3}\,lr^7R^2+$$
$$612r^8R^2-12\sqrt{3}\,l^7R^3-556l^6rR^3+588\sqrt{3}\,l^5r^2R^3+2412l^4r^3R^3-1764\sqrt{3}\,l^3r^4R^3-$$
$$3652l^2r^5R^3+1476\sqrt{3}\,lr^6R^3+3108r^7R^3-76l^6R^4+232\sqrt{3}\,l^5rR^4+3252l^4r^2R^4-$$
$$2384\sqrt{3}\,l^3r^3R^4-8820l^2r^4R^4+3464\sqrt{3}\,lr^5R^4+9420r^6R^4+24\sqrt{3}\,l^5R^5+$$
$$1560l^4rR^5-1552\sqrt{3}\,l^3r^2R^5-11280l^2r^3R^5+4568\sqrt{3}\,lr^4R^5+17496r^5R^5+112l^4R^6-$$
$$368\sqrt{3}\,l^3rR^6-7280l^2r^2R^6+3344\sqrt{3}\,lr^3R^6+19872r^4R^6-16\sqrt{3}\,l^3R^7-1872l^2rR^7+$$
$$1264\sqrt{3}\,lr^2R^7+13488r^3R^7-64l^2R^8+192\sqrt{3}\,lrR^8+4992r^2R^8+768rR^9\Big)\Big)\Big/$$
$$\Big(\left(3l^2-2\sqrt{3}\,lr-3r^2-12rR\right)^2\left(l^2r+r^3-l^2R+3r^2R+2rR^2+2R^3\right)^2\Big)\Big)\Big\}$$

$$\Big\{X62,\ \text{ISOGONAL CONJUGATE OF } X(18),\ X92,$$

$$\text{CEVAPOINT OF INCENTER AND CLAWSON POINT},\ \frac{1}{\left(3 l^2-2\sqrt{3}\, l\, r-3 r^2-12 r R\right)^2 \left(l^2+r^2-4 R^2\right)^2}$$

$$3\Big(3 l^{10}-2\sqrt{3}\, l^9 r+9 l^8 r^2-8\sqrt{3}\, l^7 r^3+6 l^6 r^4-12\sqrt{3}\, l^5 r^5-6 l^4 r^6-8\sqrt{3}\, l^3 r^7-$$
$$9 l^2 r^8-2\sqrt{3}\, l\, r^9-3 r^{10}-84 l^8 r R+72\sqrt{3}\, l^7 r^2 R+24 l^6 r^3 R-88\sqrt{3}\, l^5 r^4 R-$$
$$80 l^4 r^5 R+56\sqrt{3}\, l^3 r^6 R+8 l^2 r^7 R-40\sqrt{3}\, l\, r^8 R-60 r^9 R-24 l^8 R^2+16\sqrt{3}\, l^7 r R^2+$$
$$592 l^6 r^2 R^2-448\sqrt{3}\, l^5 r^3 R^2-688 l^4 r^4 R^2+624\sqrt{3}\, l^3 r^5 R^2+624 l^2 r^6 R^2-320\sqrt{3}\, l\, r^7 R^2-$$
$$504 r^8 R^2+576 l^6 r R^3-480\sqrt{3}\, l^5 r^2 R^3-2560 l^4 r^3 R^3+1792\sqrt{3}\, l^3 r^4 R^3+3264 l^2 r^5 R^3-$$
$$1312\sqrt{3}\, l\, r^6 R^3-2304 r^7 R^3+48 l^6 R^4-32\sqrt{3}\, l^5 r R^4-3152 l^4 r^2 R^4+2048\sqrt{3}\, l^3 r^3 R^4+$$
$$7376 l^2 r^4 R^4-2912\sqrt{3}\, l\, r^5 R^4-6192 r^6 R^4-960 l^4 r R^5+768\sqrt{3}\, l^3 r^2 R^5+7936 l^2 r^3 R^5-$$
$$3328\sqrt{3}\, l\, r^4 R^5-9792 r^5 R^5+3328 l^2 r^2 R^6-1536\sqrt{3}\, l\, r^3 R^6-8448 r^4 R^6-3072 r^3 R^7\Big)\Big\}$$

$$\Big\{X62,\ \text{ISOGONAL CONJUGATE OF } X(18),\ X93,\ \text{ISOGONAL CONJUGATE OF } X(49),$$

$$\Big(3\Big(3 l^{14}-2\sqrt{3}\, l^{13} r+15 l^{12} r^2-12\sqrt{3}\, l^{11} r^3+27 l^{10} r^4-30\sqrt{3}\, l^9 r^5+15 l^8 r^6-40\sqrt{3}\, l^7 r^7-$$
$$15 l^6 r^8-30\sqrt{3}\, l^5 r^9-27 l^4 r^{10}-12\sqrt{3}\, l^3 r^{11}-15 l^2 r^{12}-2\sqrt{3}\, l\, r^{13}-3 r^{14}-84 l^{12} r R+$$
$$48\sqrt{3}\, l^{11} r^2 R-216 l^{10} r^3 R+144\sqrt{3}\, l^9 r^4 R-108 l^8 r^5 R+96\sqrt{3}\, l^7 r^6 R+48 l^6 r^7 R-$$
$$96\sqrt{3}\, l^5 r^8 R-108 l^4 r^9 R-144\sqrt{3}\, l^3 r^{10} R-216 l^2 r^{11} R-48\sqrt{3}\, l\, r^{12} R-84 r^{13} R-30 l^{12} R^2+$$
$$12\sqrt{3}\, l^{11} r R^2+500 l^{10} r^2 R^2+4\sqrt{3}\, l^9 r^3 R^2+1134 l^8 r^4 R^2-936\sqrt{3}\, l^7 r^5 R^2-552 l^6 r^6 R^2+$$
$$744\sqrt{3}\, l^5 r^7 R^2+702 l^4 r^8 R^2-868\sqrt{3}\, l^3 r^9 R^2-1228 l^2 r^{10} R^2-492\sqrt{3}\, l\, r^{11} R^2-1038 r^{12} R^2+$$
$$720 l^{10} r R^3-240\sqrt{3}\, l^9 r^2 R^3+688 l^8 r^3 R^3-3008\sqrt{3}\, l^7 r^4 R^3-6880 l^6 r^5 R^3+6240\sqrt{3}\, l^5 r^6 R^3+$$
$$7264 l^4 r^7 R^3-4032\sqrt{3}\, l^3 r^8 R^3-3568 l^2 r^9 R^3-2800\sqrt{3}\, l\, r^{10} R^3-7440 r^{11} R^3+96 l^{10} R^4+$$
$$12\sqrt{3}\, l^9 r R^4-3072 l^8 r^2 R^4-1680\sqrt{3}\, l^7 r^3 R^4-16576 l^6 r^4 R^4+17736\sqrt{3}\, l^5 r^5 R^4+$$
$$30336 l^4 r^6 R^4-14736\sqrt{3}\, l^3 r^7 R^4-6816 l^2 r^8 R^4-9588\sqrt{3}\, l\, r^9 R^4-34176 r^{10} R^4-1920 l^8 r R^5-$$
$$192\sqrt{3}\, l^7 r^2 R^5-9216 l^6 r^3 R^5+21312\sqrt{3}\, l^5 r^4 R^5+68864 l^4 r^5 R^5-36160\sqrt{3}\, l^3 r^6 R^5-$$
$$16384 l^2 r^7 R^5-19776\sqrt{3}\, l\, r^8 R^5-104832 r^9 R^5-102 l^8 R^6-172\sqrt{3}\, l^7 r R^6+2784 l^6 r^2 R^6+$$
$$10068\sqrt{3}\, l^5 r^3 R^6+79244 l^4 r^4 R^6-52692\sqrt{3}\, l^3 r^5 R^6-47392 l^2 r^6 R^6-22228\sqrt{3}\, l\, r^7 R^6-$$
$$216678 r^8 R^6+1632 l^6 r R^7+2064\sqrt{3}\, l^5 r^2 R^7+37536 l^4 r^3 R^7-40800\sqrt{3}\, l^3 r^4 R^7-86688 l^2 r^5 R^7-$$
$$7152\sqrt{3}\, l\, r^6 R^7-296544 r^7 R^7+21 l^6 R^8+270\sqrt{3}\, l^5 r R^8+4501 l^4 r^2 R^8-14308\sqrt{3}\, l^3 r^3 R^8-$$
$$79573 l^2 r^4 R^8+11598\sqrt{3}\, l\, r^5 R^8-255573 r^6 R^8-252 l^4 r R^9-2160\sqrt{3}\, l^3 r^2 R^9-$$
$$30808 l^2 r^3 R^9+13168\sqrt{3}\, l\, r^4 R^9-124668 r^5 R^9+12 l^4 R^{10}-120\sqrt{3}\, l^3 r R^{10}-4200 l^2 r^2 R^{10}+$$
$$4440\sqrt{3}\, l\, r^3 R^{10}-27108 r^4 R^{10}-96 l^2 r R^{11}+480\sqrt{3}\, l\, r^2 R^{11}-1248 r^3 R^{11}+192 r^2 R^{12}\Big)\Big)\Big/$$
$$\Big(\left(3 l^2-2\sqrt{3}\, l\, r-3 r^2-12 r R\right)^2 \left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-8 l^2 R^2+24 r^2 R^2+32 r R^3+13 R^4\right)^2\Big)\Big\}$$

$$\Big\{X62,\ \text{ISOGONAL CONJUGATE OF } X(18),\ X94,\ \text{ISOGONAL CONJUGATE OF } X(50),$$

$$\Big(3\Big(3 l^{14} - 2\sqrt{3}\, l^{13} r + 15 l^{12} r^2 - 12\sqrt{3}\, l^{11} r^3 + 27 l^{10} r^4 - 30\sqrt{3}\, l^9 r^5 + 15 l^8 r^6 - 40\sqrt{3}\, l^7 r^7 - 15 l^6 r^8 -$$
$$30\sqrt{3}\, l^5 r^9 - 27 l^4 r^{10} - 12\sqrt{3}\, l^3 r^{11} - 15 l^2 r^{12} - 2\sqrt{3}\, l\, r^{13} - 3 r^{14} - 84 l^{12} r R + 48\sqrt{3}\, l^{11} r^2 R -$$
$$216 l^{10} r^3 R + 144\sqrt{3}\, l^9 r^4 R - 108 l^8 r^5 R + 96\sqrt{3}\, l^7 r^6 R + 48 l^6 r^7 R - 96\sqrt{3}\, l^5 r^8 R -$$
$$108 l^4 r^9 R - 144\sqrt{3}\, l^3 r^{10} R - 216 l^2 r^{11} R - 48\sqrt{3}\, l\, r^{12} R - 84 r^{13} R - 36 l^{12} R^2 + 12\sqrt{3}\, l^{11} r R^2 +$$
$$496 l^{10} r^2 R^2 + 4\sqrt{3}\, l^9 r^3 R^2 + 1172 l^8 r^4 R^2 - 936\sqrt{3}\, l^7 r^5 R^2 - 480 l^6 r^6 R^2 + 744\sqrt{3}\, l^5 r^7 R^2 +$$
$$740 l^4 r^8 R^2 - 868\sqrt{3}\, l^3 r^9 R^2 - 1232 l^2 r^{10} R^2 - 492\sqrt{3}\, l\, r^{11} R^2 - 1044 r^{12} R^2 + 864 l^{10} r R^3 -$$
$$240\sqrt{3}\, l^9 r^2 R^3 + 608 l^8 r^3 R^3 - 3008\sqrt{3}\, l^7 r^4 R^3 - 7104 l^6 r^5 R^3 + 6240\sqrt{3}\, l^5 r^6 R^3 + 7488 l^4 r^7 R^3 -$$
$$4032\sqrt{3}\, l^3 r^8 R^3 - 3488 l^2 r^9 R^3 - 2800\sqrt{3}\, l\, r^{10} R^3 - 7584 r^{11} R^3 + 162 l^{10} R^4 - 3930 l^8 r^2 R^4 -$$
$$1728\sqrt{3}\, l^7 r^3 R^4 - 16188 l^6 r^4 R^4 + 17664\sqrt{3}\, l^5 r^5 R^4 + 30396 l^4 r^6 R^4 - 14784\sqrt{3}\, l^3 r^7 R^4 -$$
$$5478 l^2 r^8 R^4 - 9600\sqrt{3}\, l\, r^9 R^4 - 35682 r^{10} R^4 - 3240 l^8 r R^5 - 7200 l^6 r^3 R^5 + 21504\sqrt{3}\, l^5 r^4 R^5 +$$
$$67856 l^4 r^5 R^5 - 36352\sqrt{3}\, l^3 r^6 R^5 - 9248 l^2 r^7 R^5 - 19968\sqrt{3}\, l\, r^8 R^5 - 113832 r^9 R^5 - 324 l^8 R^6 -$$
$$108\sqrt{3}\, l^7 r R^6 + 7272 l^6 r^2 R^6 + 10260\sqrt{3}\, l^5 r^3 R^6 + 79128 l^4 r^4 R^6 - 53268\sqrt{3}\, l^3 r^5 R^6 -$$
$$29720 l^2 r^6 R^6 - 23444\sqrt{3}\, l\, r^7 R^6 - 250500 r^8 R^6 + 5184 l^6 r R^7 + 1296\sqrt{3}\, l^5 r^2 R^7 +$$
$$40320 l^4 r^3 R^7 - 42336\sqrt{3}\, l^3 r^4 R^7 - 68736 l^2 r^5 R^7 - 10992\sqrt{3}\, l\, r^6 R^7 - 379200 r^7 R^7 +$$
$$243 l^6 R^8 + 162\sqrt{3}\, l^5 r R^8 + 2835 l^4 r^2 R^8 - 15228\sqrt{3}\, l^3 r^3 R^8 - 83475 l^2 r^4 R^8 + 5346\sqrt{3}\, l\, r^5 R^8 -$$
$$386163 r^6 R^8 - 2916 l^4 r R^9 - 1296\sqrt{3}\, l^3 r^2 R^9 - 49896 l^2 r^3 R^9 + 8208\sqrt{3}\, l\, r^4 R^9 - 251748 r^5 R^9 -$$
$$11664 l^2 r^2 R^{10} + 2592\sqrt{3}\, l\, r^3 R^{10} - 94608 r^4 R^{10} - 15552 r^3 R^{11}\Big)\Big) \Big/ \Big(\Big(3 l^2 - 2\sqrt{3}\, l\, r - 3 r^2 - 12 r R\Big)^2$$
$$\Big(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 12 l^2 R^2 + 28 r^2 R^2 + 48 r R^3 + 27 R^4\Big)^2\Big)\Big\}$$

$$\Big\{X62,\ \text{ISOGONAL CONJUGATE OF } X(18),\ X95,\ \text{CEVAPOINT OF CENTROID AND CIRCUMCENTER},$$

$$\Big(3\Big(3 l^{14} - 2\sqrt{3}\, l^{13} r + 63 l^{12} r^2 - 44\sqrt{3}\, l^{11} r^3 + 171 l^{10} r^4 - 158\sqrt{3}\, l^9 r^5 + 111 l^8 r^6 - 232\sqrt{3}\, l^7 r^7 -$$
$$111 l^6 r^8 - 158\sqrt{3}\, l^5 r^9 - 171 l^4 r^{10} - 44\sqrt{3}\, l^3 r^{11} - 63 l^2 r^{12} - 2\sqrt{3}\, l\, r^{13} - 3 r^{14} - 84 l^{12} r R +$$
$$48\sqrt{3}\, l^{11} r^2 R - 1176 l^{10} r^3 R + 656\sqrt{3}\, l^9 r^4 R - 876 l^8 r^5 R + 608\sqrt{3}\, l^7 r^6 R + 432 l^6 r^7 R -$$
$$608\sqrt{3}\, l^5 r^8 R - 876 l^4 r^9 R - 656\sqrt{3}\, l^3 r^{10} R - 1176 l^2 r^{11} R - 48\sqrt{3}\, l\, r^{12} R - 84 r^{13} R -$$
$$24 l^{12} R^2 + 16\sqrt{3}\, l^{11} r R^2 + 352 l^{10} r^2 R^2 + 144\sqrt{3}\, l^9 r^3 R^2 + 5352 l^8 r^4 R^2 - 1824\sqrt{3}\, l^7 r^5 R^2 -$$
$$11776 l^6 r^6 R^2 + 608\sqrt{3}\, l^5 r^7 R^2 + 1848 l^4 r^8 R^2 - 4080\sqrt{3}\, l^3 r^9 R^2 - 9056 l^2 r^{10} R^2 -$$
$$496\sqrt{3}\, l\, r^{11} R^2 - 1032 r^{12} R^2 + 576 l^{10} r R^3 - 320\sqrt{3}\, l^9 r^2 R^3 + 3200 l^8 r^3 R^3 - 4608\sqrt{3}\, l^7 r^4 R^3 -$$
$$12416 l^6 r^5 R^3 + 7296\sqrt{3}\, l^5 r^6 R^3 + 18944 l^4 r^7 R^3 - 13824\sqrt{3}\, l^3 r^8 R^3 - 36800 l^2 r^9 R^3 -$$
$$2880\sqrt{3}\, l\, r^{10} R^3 - 7296 r^{11} R^3 + 48 l^{10} R^4 - 32\sqrt{3}\, l^9 r R^4 - 2864 l^8 r^2 R^4 - 384\sqrt{3}\, l^7 r^3 R^4 -$$
$$16864 l^6 r^4 R^4 + 16704\sqrt{3}\, l^5 r^5 R^4 + 41696 l^4 r^6 R^4 - 28032\sqrt{3}\, l^3 r^7 R^4 - 83536 l^2 r^8 R^4 -$$
$$10272\sqrt{3}\, l\, r^9 R^4 - 32688 r^{10} R^4 - 960 l^8 r R^5 + 512\sqrt{3}\, l^7 r^2 R^5 - 3072 l^6 r^3 R^5 + 12800\sqrt{3}\, l^5 r^4 R^5 +$$
$$41856 l^4 r^5 R^5 - 35328\sqrt{3}\, l^3 r^6 R^5 - 103424 l^2 r^7 R^5 - 23040\sqrt{3}\, l\, r^8 R^5 - 96192 r^9 R^5 +$$
$$2560 l^6 r^2 R^6 + 1536\sqrt{3}\, l^5 r^3 R^6 + 42496 l^4 r^4 R^6 - 27136\sqrt{3}\, l^3 r^5 R^6 - 67072 l^2 r^6 R^6 -$$
$$31744\sqrt{3}\, l\, r^7 R^6 - 185856 r^8 R^6 + 10240 l^4 r^3 R^7 - 10240\sqrt{3}\, l^3 r^4 R^7 - 32768 l^2 r^5 R^7 -$$
$$24576\sqrt{3}\, l\, r^6 R^7 - 227328 r^7 R^7 - 20480 l^2 r^4 R^8 - 8192\sqrt{3}\, l\, r^5 R^8 - 159744 r^6 R^8 - 49152 r^5 R^9\Big)\Big) \Big/$$
$$\Big(\Big(3 l^2 - 2\sqrt{3}\, l\, r - 3 r^2 - 12 r R\Big)^2 \Big(l^4 + 18 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 4 l^2 R^2 + 20 r^2 R^2 + 16 r R^3\Big)^2\Big)\Big\}$$

$$\{X62,\ \text{ISOGONAL CONJUGATE OF } X(18),\ X96,\ \text{ISOGONAL CONJUGATE OF } X(52),$$
$$-\Big(\Big(3\Big(3 l^{14} - 2\sqrt{3}\, l^{13} r - 33 l^{12} r^2 + 20\sqrt{3}\, l^{11} r^3 - 117 l^{10} r^4 + 98\sqrt{3}\, l^9 r^5 - 81 l^8 r^6 + 152\sqrt{3}\, l^7 r^7 +$$
$$81 l^6 r^8 + 98\sqrt{3}\, l^5 r^9 + 117 l^4 r^{10} + 20\sqrt{3}\, l^3 r^{11} + 33 l^2 r^{12} - 2\sqrt{3}\, l r^{13} - 3 r^{14} -$$
$$84 l^{12} r R + 48\sqrt{3}\, l^{11} r^2 R + 744 l^{10} r^3 R - 368\sqrt{3}\, l^9 r^4 R + 660 l^8 r^5 R - 416\sqrt{3}\, l^7 r^6 R -$$
$$336 l^6 r^7 R + 416\sqrt{3}\, l^5 r^8 R + 660 l^4 r^9 R + 368\sqrt{3}\, l^3 r^{10} R + 744 l^2 r^{11} R - 48\sqrt{3}\, l r^{12} R -$$
$$84 r^{13} R - 36 l^{12} R^2 + 32\sqrt{3}\, l^{11} r R^2 + 1336 l^{10} r^2 R^2 - 704\sqrt{3}\, l^9 r^3 R^2 - 6220 l^8 r^4 R^2 +$$
$$1408\sqrt{3}\, l^7 r^5 R^2 + 7120 l^6 r^6 R^2 - 576\sqrt{3}\, l^5 r^7 R^2 - 3580 l^4 r^8 R^2 + 2912\sqrt{3}\, l^3 r^9 R^2 +$$
$$7288 l^2 r^{10} R^2 - 512\sqrt{3}\, l r^{11} R^2 - 1044 r^{12} R^2 + 864 l^{10} r R^3 - 640\sqrt{3}\, l^9 r^2 R^3 - 12832 l^8 r^3 R^3 +$$
$$5888\sqrt{3}\, l^7 r^4 R^3 + 34752 l^6 r^5 R^3 - 7936\sqrt{3}\, l^5 r^6 R^3 - 40512 l^4 r^7 R^3 + 13056\sqrt{3}\, l^3 r^8 R^3 +$$
$$40672 l^2 r^9 R^3 - 3200\sqrt{3}\, l r^{10} R^3 - 7584 r^{11} R^3 + 168 l^{10} R^4 - 192\sqrt{3}\, l^9 r R^4 -$$
$$9896 l^8 r^2 R^4 + 6336\sqrt{3}\, l^7 r^3 R^4 + 70768 l^6 r^4 R^4 - 25344\sqrt{3}\, l^5 r^5 R^4 - 140272 l^4 r^6 R^4 +$$
$$37056\sqrt{3}\, l^3 r^7 R^4 + 142568 l^2 r^8 R^4 - 12992\sqrt{3}\, l r^9 R^4 - 35688 r^{10} R^4 - 3360 l^8 r R^5 +$$
$$3072\sqrt{3}\, l^7 r^2 R^5 + 64512 l^6 r^3 R^5 - 33280\sqrt{3}\, l^5 r^4 R^5 - 244160 l^4 r^5 R^5 + 70144\sqrt{3}\, l^3 r^6 R^5 +$$
$$326656 l^2 r^7 R^5 - 35840\sqrt{3}\, l r^8 R^5 - 113952 r^9 R^5 - 384 l^8 R^6 + 544\sqrt{3}\, l^7 r R^6 +$$
$$29120 l^6 r^2 R^6 - 21216\sqrt{3}\, l^5 r^3 R^6 - 239232 l^4 r^4 R^6 + 87776\sqrt{3}\, l^3 r^5 R^6 + 494016 l^2 r^6 R^6 -$$
$$68128\sqrt{3}\, l r^7 R^6 - 251520 r^8 R^6 + 6144 l^6 r R^7 - 6528\sqrt{3}\, l^5 r^2 R^7 - 131584 l^4 r^3 R^7 +$$
$$66816\sqrt{3}\, l^3 r^4 R^7 + 486912 l^2 r^5 R^7 - 88448\sqrt{3}\, l r^6 R^7 - 384000 r^7 R^7 + 432 l^6 R^8 -$$
$$736\sqrt{3}\, l^5 r R^8 - 38608 l^4 r^2 R^8 + 28480\sqrt{3}\, l^3 r^3 R^8 + 301776 l^2 r^4 R^8 - 76000\sqrt{3}\, l r^5 R^8 -$$
$$399792 r^6 R^8 - 5184 l^4 r R^9 + 5888\sqrt{3}\, l^3 r^2 R^9 + 110464 l^2 r^3 R^9 - 40704\sqrt{3}\, l r^4 R^9 -$$
$$275520 r^5 R^9 - 192 l^4 R^{10} + 384\sqrt{3}\, l^3 r R^{10} + 21120 l^2 r^2 R^{10} - 12160\sqrt{3}\, l r^3 R^{10} -$$
$$119232 r^4 R^{10} + 1536 l^2 r R^{11} - 1536\sqrt{3}\, l r^2 R^{11} - 29184 r^3 R^{11} - 3072 r^2 R^{12}\Big)\Big)\Big/$$
$$\Big(\Big(3 l^2 - 2\sqrt{3}\, l r - 3 r^2 - 12 r R\Big)^2 \Big(l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2 - 4 R^4\Big)^2\Big)\Big)\Big\}$$

$$\{X62,\ \text{ISOGONAL CONJUGATE OF } X(18),\ X97,\ \text{ISOGONAL CONJUGATE OF } X(53),$$
$$-\Big(\Big(3 R^2 \Big(2\sqrt{3}\, l^{11} r - 20 l^{10} r^2 + 22\sqrt{3}\, l^9 r^3 + 16 l^8 r^4 - 236\sqrt{3}\, l^7 r^5 + 584 l^6 r^6 + 236\sqrt{3}\, l^5 r^7 + 16 l^4 r^8 -$$
$$22\sqrt{3}\, l^3 r^9 - 20 l^2 r^{10} - 2\sqrt{3}\, l r^{11} - 40\sqrt{3}\, l^9 r^2 R + 320 l^8 r^3 R - 224\sqrt{3}\, l^7 r^4 R -$$
$$448 l^6 r^5 R + 1168\sqrt{3}\, l^5 r^6 R + 448 l^4 r^7 R - 224\sqrt{3}\, l^3 r^8 R - 320 l^2 r^9 R - 40\sqrt{3}\, l r^{10} R -$$
$$3 l^{10} R^2 - 18\sqrt{3}\, l^9 r R^2 + 123 l^8 r^2 R^2 + 64\sqrt{3}\, l^7 r^3 R^2 - 1474 l^6 r^4 R^2 + 1764\sqrt{3}\, l^5 r^5 R^2 +$$
$$2370 l^4 r^6 R^2 - 832\sqrt{3}\, l^3 r^7 R^2 - 2043 l^2 r^8 R^2 - 338\sqrt{3}\, l r^9 R^2 + 3 r^{10} R^2 + 60 l^8 r R^3 +$$
$$288\sqrt{3}\, l^7 r^2 R^3 - 1536 l^6 r^3 R^3 + 480\sqrt{3}\, l^5 r^4 R^3 + 4872 l^4 r^5 R^3 - 1248\sqrt{3}\, l^3 r^6 R^3 - 6656 l^2 r^7 R^3 -$$
$$1568\sqrt{3}\, l r^8 R^3 + 60 r^9 R^3 + 24 l^8 R^4 + 48\sqrt{3}\, l^7 r R^4 - 384 l^6 r^2 R^4 - 592\sqrt{3}\, l^5 r^3 R^4 +$$
$$3440 l^4 r^4 R^4 - 368\sqrt{3}\, l^3 r^5 R^4 - 11648 l^2 r^6 R^4 - 4336\sqrt{3}\, l r^7 R^4 + 504 r^8 R^4 - 384 l^6 r R^5 -$$
$$576\sqrt{3}\, l^5 r^2 R^5 + 1536 l^4 r^3 R^5 + 640\sqrt{3}\, l^3 r^4 R^5 - 10368 l^2 r^5 R^5 - 7232\sqrt{3}\, l r^6 R^5 + 2304 r^7 R^5 -$$
$$48 l^6 R^6 - 32\sqrt{3}\, l^5 r R^6 + 80 l^4 r^2 R^6 + 448\sqrt{3}\, l^3 r^3 R^6 - 3152 l^2 r^4 R^6 - 6944\sqrt{3}\, l r^5 R^6 +$$
$$6192 r^6 R^6 + 576 l^4 r R^7 + 256\sqrt{3}\, l^3 r^2 R^7 + 2176 l^2 r^3 R^7 - 3328\sqrt{3}\, l r^4 R^7 + 9792 r^5 R^7 +$$
$$2304 l^2 r^2 R^8 - 512\sqrt{3}\, l r^3 R^8 + 8448 r^4 R^8 + 3072 r^3 R^9\Big)\Big)\Big/\Big(\Big(3 l^2 - 2\sqrt{3}\, l r - 3 r^2 - 12 r R\Big)^2$$
$$\Big(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 7 l^2 R^2 + 23 r^2 R^2 + 28 r R^3 + 12 R^4\Big)^2\Big)\Big)\Big\}$$

$$\{X62,\ \text{ISOGONAL CONJUGATE OF } X(18),\ X98,\ \text{TarryPoint},$$
$$-\Big(\Big(3\Big(3 l^{10} - 2\sqrt{3}\, l^9 r + 9 l^8 r^2 - 8\sqrt{3}\, l^7 r^3 + 6 l^6 r^4 - 12\sqrt{3}\, l^5 r^5 - 6 l^4 r^6 - 8\sqrt{3}\, l^3 r^7 - 9 l^2 r^8 -$$
$$2\sqrt{3}\, l r^9 - 3 r^{10} - 60 l^8 r R + 32\sqrt{3}\, l^7 r^2 R - 48 l^6 r^3 R + 32\sqrt{3}\, l^5 r^4 R + 24 l^4 r^5 R -$$
$$32\sqrt{3}\, l^3 r^6 R - 48 l^2 r^7 R - 32\sqrt{3}\, l r^8 R - 60 r^9 R - 12 l^8 R^2 + 8\sqrt{3}\, l^7 r R^2 + 416 l^6 r^2 R^2 -$$
$$120\sqrt{3}\, l^5 r^3 R^2 - 520 l^4 r^4 R^2 + 56\sqrt{3}\, l^3 r^5 R^2 + 224 l^2 r^6 R^2 - 200\sqrt{3}\, l r^7 R^2 -$$
$$492 r^8 R^2 + 192 l^6 r R^3 - 96\sqrt{3}\, l^5 r^2 R^3 - 1600 l^4 r^3 R^3 + 320\sqrt{3}\, l^3 r^4 R^3 + 1984 l^2 r^5 R^3 -$$
$$608\sqrt{3}\, l r^6 R^3 - 2112 r^7 R^3 - 1152 l^4 r^2 R^4 + 384\sqrt{3}\, l^3 r^3 R^4 + 4352 l^2 r^4 R^4 -$$
$$896\sqrt{3}\, l r^5 R^4 - 4992 r^6 R^4 + 3072 l^2 r^3 R^5 - 512\sqrt{3}\, l r^4 R^5 - 6144 r^5 R^5 - 3072 r^4 R^6\Big)\Big)\Big/$$
$$\Big(\Big(3 l^2 - 2\sqrt{3}\, l r - 3 r^2 - 12 r R\Big)^2 \Big(l^2 - 2\sqrt{3}\, l r - r^2 - 4 r R\Big)\Big(l^2 + 2\sqrt{3}\, l r - r^2 - 4 r R\Big)\Big)\Big)\Big\}$$

$$\{X62,\ \text{ISOGONAL CONJUGATE OF } X(18),\ X99,\ \text{STEINER POINT},$$
$$\Big(3\big(3\,l^{10}-2\sqrt{3}\,l^9 r+9\,l^8 r^2-8\sqrt{3}\,l^7 r^3+6\,l^6 r^4-12\sqrt{3}\,l^5 r^5-6\,l^4 r^6-8\sqrt{3}\,l^3 r^7-9\,l^2 r^8-$$
$$2\sqrt{3}\,l\,r^9-3\,r^{10}-60\,l^8 r R+32\sqrt{3}\,l^7 r^2 R-48\,l^6 r^3 R+32\sqrt{3}\,l^5 r^4 R+24\,l^4 r^5 R-$$
$$32\sqrt{3}\,l^3 r^6 R-48\,l^2 r^7 R-32\sqrt{3}\,l\,r^8 R-60\,r^9 R+160\,l^6 r^2 R^2+736\,l^4 r^4 R^2-64\sqrt{3}\,l^3 r^5 R^2-$$
$$32\,l^2 r^6 R^2-192\sqrt{3}\,l\,r^7 R^2-480\,r^8 R^2+640\,l^4 r^3 R^3-256\sqrt{3}\,l^3 r^4 R^3-256\,l^2 r^5 R^3-$$
$$512\sqrt{3}\,l\,r^6 R^3-1920\,r^7 R^3-1280\,l^2 r^4 R^4-512\sqrt{3}\,l\,r^5 R^4-3840\,r^6 R^4-3072\,r^5 R^5\big)\Big)\Big/$$
$$\Big(\big(3\,l^2-2\sqrt{3}\,l\,r-3\,r^2-12\,r R\big)^2\big(l^2-2\sqrt{3}\,l\,r-r^2-4\,r R\big)\big(l^2+2\sqrt{3}\,l\,r-r^2-4\,r R\big)\Big)\}$$

$$\{X62,\ \text{ISOGONAL CONJUGATE OF } X(18),\ X100,\ \text{ANTICOMPLEMENT OF FEUERBACH POINT},$$
$$\Big(3R\big(-3\,l^6+2\sqrt{3}\,l^5 r-3\,l^4 r^2+4\sqrt{3}\,l^3 r^3+3\,l^2 r^4+2\sqrt{3}\,l\,r^5+3\,r^6+60\,l^4 r R-32\sqrt{3}\,l^3 r^2 R-$$
$$112\,l^2 r^3 R+16\sqrt{3}\,l\,r^4 R+36\,r^5 R-208\,l^2 r^2 R^2+32\sqrt{3}\,l\,r^3 R^2+144\,r^4 R^2+192\,r^3 R^3\big)\Big)\Big/$$
$$\Big((2r-R)\big(3\,l^2-2\sqrt{3}\,l\,r-3\,r^2-12\,r R\big)^2\Big)\}$$

$$\{X63,\ \text{ISOGONAL CONJUGATE OF } X(19),\ X64,\ \text{ISOGONAL CONJUGATE OF } X(20),$$
$$-\Big(\big(R\big(2\,l^4 r^3-4\,l^2 r^5+2\,r^7+l^6 R-3\,l^4 r^2 R-17\,l^2 r^4 R+15\,r^6 R-20\,l^4 r R^2+16\,l^2 r^3 R^2+28\,r^5 R^2-$$
$$20\,l^4 R^3+164\,l^2 r^2 R^3-84\,r^4 R^3+256\,l^2 r R^4-480\,r^3 R^4+128\,l^2 R^5-896\,r^2 R^5-768\,r R^6-256\,R^7\big)\big)\Big/$$
$$\Big((r+R)^2(-l+r+2R)^2(l+r+2R)^2\Big)\Big)\}$$

$$\{X63,\ \text{ISOGONAL CONJUGATE OF } X(19),\ X65,\ \text{ORTHOCENTER OF THE INTOUCH TRIANGLE},$$
$$-\frac{2\,r^5-l^2 r^2 R+10\,r^4 R-3\,l^2 r R^2+23\,r^3 R^2-l^2 R^3+28\,r^2 R^3+16\,r R^4}{R\,(r+R)^2}\}$$

$$\{X63,\ \text{ISOGONAL CONJUGATE OF } X(19),\ X66,\ \text{ISOGONAL CONJUGATE OF } X(22),$$
$$-\frac{1}{(r+R)^2(-l+r+2R)^2(l+r+2R)^2\big(-l^2+r^2+4\,r R\big)^2}$$
$$\big(2\,l^{10} r^2-12\,l^8 r^4+24\,l^6 r^6-20\,l^4 r^8+6\,l^2 r^{10}+l^{10} r R-43\,l^8 r^3 R+170\,l^6 r^5 R-214\,l^4 r^7 R+85\,l^2 r^9 R+$$
$$r^{11} R-33\,l^8 r^2 R^2+392\,l^6 r^4 R^2-854\,l^4 r^6 R^2+472\,l^2 r^8 R^2+23\,r^{10} R^2-2\,l^8 r R^3+316\,l^6 r^3 R^3-$$
$$1520\,l^4 r^5 R^3+1236\,l^2 r^7 R^3+226\,r^9 R^3+l^8 R^4+20\,l^6 r^2 R^4-982\,l^4 r^4 R^4+1196\,l^2 r^6 R^4+1237\,r^8 R^4-$$
$$40\,l^6 r R^5+328\,l^4 r^3 R^5-1208\,l^2 r^5 R^5+4120\,r^7 R^5-4\,l^6 R^6+556\,l^4 r^2 R^6-3996\,l^2 r^4 R^6+$$
$$8548\,r^6 R^6+112\,l^4 r R^7-3392\,l^2 r^3 R^7+10\,800\,r^5 R^7-912\,l^2 r^2 R^8+7616\,r^4 R^8+2304\,r^3 R^9\big)\}$$

$$\{X63,\ \text{ISOGONAL CONJUGATE OF } X(19),\ X67,$$
$$\text{ISOGONAL CONJUGATE OF } X(23),\ -\frac{1}{(r+R)^2\big(-l^2+r^2+4\,r R\big)^2\big(-2\,l^2+2\,r^2+8\,r R+9\,R^2\big)}$$
$$\big(-3\,l^8 r^2+20\,l^6 r^4-30\,l^4 r^6+12\,l^2 r^8+r^{10}-l^8 r R+54\,l^6 r^3 R-180\,l^4 r^5 R+$$
$$106\,l^2 r^7 R+21\,r^9 R+30\,l^6 r^2 R^2-330\,l^4 r^4 R^2+306\,l^2 r^6 R^2+186\,r^8 R^2-2\,l^6 r R^3-$$
$$168\,l^4 r^3 R^3+198\,l^2 r^5 R^3+900\,r^7 R^3-l^6 R^4+75\,l^4 r^2 R^4-551\,l^2 r^4 R^4+2569\,r^6 R^4+$$
$$36\,l^4 r R^5-984\,l^2 r^3 R^5+4332\,r^5 R^5-420\,l^2 r^2 R^6+4016\,r^4 R^6+1600\,r^3 R^7\big)\}$$

$$\{X63,\ \text{ISOGONAL CONJUGATE OF } X(19),\ X68,\ \text{PRASOLOV POINT},$$
$$-\Big(\big(2\,l^6 r^2-8\,l^4 r^4+6\,l^2 r^6+l^6 r R-25\,l^4 r^3 R+39\,l^2 r^5 R+r^7 R-27\,l^4 r^2 R^2+98\,l^2 r^4 R^2+$$
$$13\,r^6 R^2-4\,l^4 r R^3+104\,l^2 r^3 R^3+68\,r^5 R^3+l^4 R^4+26\,l^2 r^2 R^4+185\,r^4 R^4-24\,l^2 r R^5+$$
$$280\,r^3 R^5-4\,l^2 R^6+224\,r^2 R^6+72\,r R^7-4\,R^8\big)\Big/\Big((r+R)^2(-l+r+2R)^2(l+r+2R)^2\Big)\Big)\}$$

$$\{X63,\ \text{ISOGONAL CONJUGATE OF } X(19),\ X69,\ \text{SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},$$
$$-\Big(\big(r^2\big(l^6-9\,l^4 r^2+7\,l^2 r^4+r^6-16\,l^4 r R+32\,l^2 r^3 R+16\,r^5 R-4\,l^4 R^2+48\,l^2 r^2 R^2+100\,r^4 R^2+$$
$$16\,l^2 r R^3+304\,r^3 R^3-16\,l^2 R^4+448\,r^2 R^4+256\,r R^5\big)\big)\Big/\Big((r+R)^2\big(-l^2+r^2+4\,r R\big)^2\Big)\Big)\}$$

$$\{X63,\ \text{ISOGONAL CONJUGATE OF } X(19),\ X70,\ \text{ISOGONAL CONJUGATE OF } X(26),$$
$$-\Big(\big(2 l^{10} r^2 - 12 l^8 r^4 + 24 l^6 r^6 - 20 l^4 r^8 + 6 l^2 r^{10} + l^{10} r R - 43 l^8 r^3 R + 170 l^6 r^5 R - 214 l^4 r^7 R + 85 l^2 r^9 R + r^{11} R - 42 l^8 r^2 R^2 + 432 l^6 r^4 R^2 - 908 l^4 r^6 R^2 + 496 l^2 r^8 R^2 + 22 r^{10} R^2 - 7 l^8 r R^3 + 466 l^6 r^3 R^3 - 1916 l^4 r^5 R^3 + 1502 l^2 r^7 R^3 + 211 r^9 R^3 + l^8 R^4 + 163 l^6 r^2 R^4 - 1991 l^4 r^4 R^4 + 2333 l^2 r^6 R^4 + 1158 r^8 R^4 - 21 l^6 r R^5 - 691 l^4 r^3 R^5 + 1069 l^2 r^5 R^5 + 4011 r^7 R^5 - 8 l^6 R^6 + 320 l^4 r^2 R^6 - 2144 l^2 r^4 R^6 + 9112 r^6 R^6 + 229 l^4 r R^7 - 3724 l^2 r^3 R^7 + 13639 r^5 R^7 + 19 l^4 R^8 - 2209 l^2 r^2 R^8 + 13112 r^4 R^8 - 466 l^2 r R^9 + 7582 r^3 R^9 - 12 l^2 R^{10} + 2296 r^2 R^{10} + 264 r R^{11} - 4 R^{12}\big) \Big/ \big((r+R)^2 \left(l^4 - 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 6 l^2 R^2 + 22 r^2 R^2 + 24 r R^3 + 7 R^4\right)^2\big)\Big)\}$$

$$\{X63,\ \text{ISOGONAL CONJUGATE OF } X(19),\ X71,\ \text{ISOGONAL CONJUGATE OF } X(27),$$
$$-\Big(\big(R^2 \left(l^6 - 9 l^4 r^2 + 7 l^2 r^4 + r^6 - 16 l^4 r R + 32 l^2 r^3 R + 16 r^5 R - 4 l^4 R^2 + 48 l^2 r^2 R^2 + 100 r^4 R^2 + 16 l^2 r R^3 + 304 r^3 R^3 - 16 l^2 R^4 + 448 r^2 R^4 + 256 r R^5\right)\big) \Big/ \big((r+R)^2 \left(l^2 + r^2 + 6 r R + 8 R^2\right)^2\big)\Big)\}$$

$$\{X63,\ \text{ISOGONAL CONJUGATE OF } X(19),\ X72,$$
$$\text{ISOGONAL CONJUGATE OF } X(28),\ \frac{r^2 \left(l^2 r - r^3 - 5 r^2 R - 6 r R^2 + R^3\right)}{R (r+R)^2}\}$$

$$\{X63,\ \text{ISOGONAL CONJUGATE OF } X(19),\ X73,\ \text{CROSSPOINT OF INCENTER AND CIRCUMCENTER},$$
$$-\Big(\big(R \left(-2 l^6 r - 2 l^4 r^3 + 2 l^2 r^5 + 2 r^7 - l^6 R + 21 l^4 r^2 R + 33 l^2 r^4 R - 5 r^6 R + 36 l^4 r R^2 - 16 l^2 r^3 R^2 - 84 r^5 R^2 + 8 l^4 R^3 - 200 l^2 r^2 R^3 - 160 r^4 R^3 - 176 l^2 r R^4 + 112 r^3 R^4 - 16 l^2 R^5 + 448 r^2 R^5 + 256 r R^6\right)\big) \Big/ \big((r+R)^2 \left(l^2 + r^2 - 2 r R - 4 R^2\right)^2\big)\Big)\}$$

$$\{X63,\ \text{ISOGONAL CONJUGATE OF } X(19),\ X74,\ \text{ISOGONAL CONJUGATE OF EULER INFINITY POINT},$$
$$-\frac{R \left(l^4 r - 4 l^2 r^3 + 3 r^5 - l^4 R - 9 l^2 r^2 R + 20 r^4 R - 2 l^2 r R^2 + 46 r^3 R^2 + 12 l^2 R^3 + 32 r^2 R^3 - 24 r R^4 - 36 R^5\right)}{(r+R)^2 \left(-2 l^2 + 2 r^2 + 8 r R + 9 R^2\right)}\}$$

$$\{X63,\ \text{ISOGONAL CONJUGATE OF } X(19),\ X75,\ \text{ISOTOMIC CONJUGATE OF INCENTER},$$
$$-\frac{1}{(r+R)^2 \left(l^2 + r^2 + 4 r R\right)^2} r^2 \left(l^6 + 3 l^4 r^2 + 3 l^2 r^4 + r^6 + 8 l^4 r R - 8 l^2 r^3 R + 16 r^5 R - 4 l^4 R^2 - 80 l^2 r^2 R^2 + 100 r^4 R^2 - 112 l^2 r R^3 + 304 r^3 R^3 - 16 l^2 R^4 + 448 r^2 R^4 + 256 r R^5\right)\}$$

$$\{X63,\ \text{ISOGONAL CONJUGATE OF } X(19),\ X76,$$
$$\text{3rd BROCARD POINT},\ -\frac{1}{(r+R)^2 \left(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\right)^2}$$
$$r^2 \left(l^{10} + 5 l^8 r^2 + 10 l^6 r^4 + 10 l^4 r^6 + 5 l^2 r^8 + r^{10} - 16 l^8 r R - 24 l^6 r^3 R + 24 l^4 r^5 R + 56 l^2 r^7 R + 24 r^9 R - 4 l^8 R^2 + 88 l^6 r^2 R^2 - 208 l^4 r^4 R^2 + 200 l^2 r^6 R^2 + 244 r^8 R^2 + 48 l^6 r R^3 - 464 l^4 r^3 R^3 + 80 l^2 r^5 R^3 + 1360 r^7 R^3 - 16 l^6 R^4 - 32 l^4 r^2 R^4 - 1168 l^2 r^4 R^4 + 4480 r^6 R^4 + 384 l^4 r R^5 - 2944 l^2 r^3 R^5 + 8704 r^5 R^5 - 2304 l^2 r^2 R^6 + 9216 r^4 R^6 + 4096 r^3 R^7\right)\}$$

$$\{X63,\ \text{ISOGONAL CONJUGATE OF } X(19),\ X77,\ \text{ISOGONAL CONJUGATE OF } X(33),$$
$$-\Big(\big(R \left(-2 l^6 r + 4 l^4 r^3 - 2 l^2 r^5 - l^6 R + 23 l^4 r^2 R - 19 l^2 r^4 R + r^6 R + 36 l^4 r R^2 - 92 l^2 r^3 R^2 + 16 r^5 R^2 + 8 l^4 R^3 - 208 l^2 r^2 R^3 + 100 r^4 R^3 - 176 l^2 r R^4 + 304 r^3 R^4 - 16 l^2 R^5 + 448 r^2 R^5 + 256 r R^6\right)\big) \Big/ \big((r+R)^2 \left(-l^2 + r R + 4 R^2\right)^2\big)\Big)\}$$

$$\{X63,\ \text{ISOGONAL CONJUGATE OF } X(19),\ X78,$$
$$\text{ISOGONAL CONJUGATE OF } X(34),\ -\frac{4 r^2 R \left(-l^2 r + r^3 + 5 r^2 R + 6 r R^2 - R^3\right)}{(r-R)^2 (r+R)^2}\}$$

$$\{X63,\ \text{ISOGONAL CONJUGATE OF } X(19),\ X79,\ \text{ISOGONAL CONJUGATE OF } X(35),$$
$$-\frac{16 l^2 r^4 + 24 l^2 r^3 R + 8 r^5 R - 18 l^2 r^2 R^2 + 74 r^4 R^2 - 36 l^2 r R^3 + 240 r^3 R^3 - 9 l^2 R^4 + 315 r^2 R^4 + 144 r R^5}{(r+R)^2 (2 r + 3 R)^2}\}$$

$$\left\{X63,\ \text{ISOGONAL CONJUGATE OF } X(19),\ X80,\ \text{REFLECTION OF INCENTER IN FEUERBACH POINT},\ \frac{-4 l^2 r^3+4 r^5-2 l^2 r^2 R+18 r^4 R-2 l^2 r R^2+34 r^3 R^2-l^2 R^3+27 r^2 R^3+16 r R^4}{(2 r-R)\ (r+R)^2}\right\}$$

$$\left\{X63,\ \text{ISOGONAL CONJUGATE OF } X(19),\ X81,\ \text{CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},\ -\frac{l^4 R\left(-2 l^2 r+6 r^3-l^2 R+19 r^2 R+16 r R^2\right)}{(r+R)^2\left(-l^2+r^2+r R\right)^2}\right\}$$

$$\left\{X63,\ \text{ISOGONAL CONJUGATE OF } X(19),\ X82,\ \text{ISOGONAL CONJUGATE OF } X(38),\ -\frac{1}{(r+R)^2\left(l^4-4 l^2 r^2+3 r^4-9 l^2 r R+19 r^3 R+28 r^2 R^2\right)^2} R\left(-2 l^{10} r+16 l^8 r^3-36 l^6 r^5+40 l^4 r^7-26 l^2 r^9+8 r^{11}-l^{10} R+55 l^8 r^2 R-297 l^6 r^4 R+529 l^4 r^6 R-434 l^2 r^8 R+156 r^{10} R+32 l^8 r R^2-640 l^6 r^3 R^2+2288 l^4 r^5 R^2-2776 l^2 r^7 R^2+1240 r^9 R^2-360 l^6 r^2 R^3+3756 l^4 r^4 R^3-8248 l^2 r^6 R^3+5124 r^8 R^3+1984 l^4 r^3 R^4-11184 l^2 r^5 R^4+11568 r^7 R^4-5520 l^2 r^4 R^5+13504 r^6 R^5+6400 r^5 R^6\right)\right\}$$

$$\left\{X63,\ \text{ISOGONAL CONJUGATE OF } X(19),\ X83,\ \text{CEVAPOINT OF CENTROID AND SYMMEDIAN POINT},\ -\frac{1}{(r+R)^2\left(5 l^4-6 l^2 r^2+5 r^4-40 l^2 r R+40 r^3 R+80 r^2 R^2\right)^2}\left(9 l^{10} r^2+21 l^8 r^4+10 l^6 r^6-6 l^4 r^8-3 l^2 r^{10}+r^{12}-32 l^{10} r R-8 l^8 r^3 R-216 l^6 r^5 R+136 l^4 r^7 R-104 l^2 r^9 R+32 r^{11} R-16 l^{10} R^2+716 l^8 r^2 R^2-1336 l^6 r^4 R^2+1952 l^4 r^6 R^2-1432 l^2 r^8 R^2+436 r^{10} R^2+480 l^8 r R^3-6448 l^6 r^3 R^3+11344 l^4 r^5 R^3-9936 l^2 r^7 R^3+3280 r^9 R^3-4752 l^6 r^2 R^4+29152 l^4 r^4 R^4-36368 l^2 r^6 R^4+14720 r^8 R^4+21376 l^4 r^3 R^5-65920 l^2 r^5 R^5+39424 r^7 R^5-45312 l^2 r^4 R^6+58368 r^6 R^6+36864 r^5 R^7\right)\right\}$$

$$\left\{X63,\ \text{ISOGONAL CONJUGATE OF } X(19),\ X84,\ \text{ISOGONAL CONJUGATE OF } X(40),\ \frac{R^2\ (r+2 R)^2\left(-l^2+3 r^2+4 r R+4 R^2\right)}{r^2\ (r+R)^2}\right\}$$

$$\left\{X63,\ \text{ISOGONAL CONJUGATE OF } X(19),\ X85,\ \text{ISOTOMIC CONJUGATE OF } X(9),\ -\left(\left(l^6 r^2+3 l^4 r^4+3 l^2 r^6+r^8+32 l^4 r^3 R+24 l^2 r^5 R+24 r^7 R+44 l^4 r^2 R^2+16 l^2 r^4 R^2+244 r^6 R^2-304 l^2 r^3 R^3+1360 r^5 R^3-912 l^2 r^2 R^4+4480 r^4 R^4-896 l^2 r R^5+8704 r^3 R^5-256 l^2 R^6+9216 r^2 R^6+4096 r R^7\right)\Big/\left((r+R)^2\left(l^2+r^2+8 r R+16 R^2\right)^2\right)\right)\right\}$$

$$\left\{X63,\ \text{ISOGONAL CONJUGATE OF } X(19),\ X86,\ \text{CEVAPOINT OF INCENTER AND CENTROID},\ -\left(\left(9 l^6 r^2+19 l^4 r^4+11 l^2 r^6+r^8-32 l^6 r R+72 l^4 r^3 R+88 l^2 r^5 R+16 r^7 R-16 l^6 R^2+172 l^4 r^2 R^2+336 l^2 r^4 R^2+100 r^6 R^2+224 l^4 r R^3+656 l^2 r^3 R^3+304 r^5 R^3+496 l^2 r^2 R^4+448 r^4 R^4+256 r^3 R^5\right)\Big/\left((r+R)^2\left(5 l^2+r^2+4 r R\right)^2\right)\right)\right\}$$

$$\left\{X63,\ \text{ISOGONAL CONJUGATE OF } X(19),\ X87,\ X(2)\text{-CROSS CONJUGATE OF } X(1),\ \frac{1}{(r+R)^2\left(l^4+2 l^2 r^2+r^4-20 l^2 r R+12 r^3 R+32 r^2 R^2\right)^2} R\left(2 l^{10} r+10 l^8 r^3+20 l^6 r^5+20 l^4 r^7+10 l^2 r^9+2 r^{11}+l^{10} R-79 l^8 r^2 R-166 l^6 r^4 R-78 l^4 r^6 R+21 l^2 r^8 R+13 r^{10} R-48 l^8 r R^2+1008 l^6 r^3 R^2-208 l^4 r^5 R^2+720 l^2 r^7 R^2-64 r^9 R^2+800 l^6 r^2 R^3-4576 l^4 r^4 R^3+3040 l^2 r^6 R^3-800 r^8 R^3-5120 l^4 r^3 R^4+8448 l^2 r^5 R^4-2816 r^7 R^4+8448 l^2 r^4 R^5-4864 r^6 R^5-4096 r^5 R^6\right)\right\}$$

$$\left\{X63,\ \text{ISOGONAL CONJUGATE OF } X(19),\ X88,\ \text{ISOGONAL CONJUGATE OF } X(44),\ -\left(\left(R\left(-2 l^6 r-6 l^4 r^3-12 l^2 r^5-l^6 R+67 l^4 r^2 R+60 l^2 r^4 R+36 r^6 R+40 l^4 r R^2-672 l^2 r^3 R^2+432 r^5 R^2-528 l^2 r^2 R^3+1728 r^4 R^3+2304 r^3 R^4\right)\right)\Big/\left((r+R)^2\left(l^2+3 r^2-15 r R\right)^2\right)\right)\right\}$$

$$\left\{X63,\ \text{ISOGONAL CONJUGATE OF } X(19),\ X89,\ \text{ISOGONAL CONJUGATE OF } X(45),\ -\left(\left(R\left(-8 l^6 r+36 l^4 r^3+12 l^2 r^5-4 l^6 R+28 l^4 r^2 R+165 l^2 r^4 R+9 r^6 R+40 l^4 r R^2+312 l^2 r^3 R^2+108 r^5 R^2+348 l^2 r^2 R^3+432 r^4 R^3+576 r^3 R^4\right)\right)\Big/\left((r+R)^2\left(-2 l^2+6 r^2-3 r R\right)^2\right)\right)\right\}$$

$$\left\{X63,\ \text{ISOGONAL CONJUGATE OF } X(19),\ X90,\ X(3)\text{-CROSS CONJUGATE OF } X(1),\ \frac{R^2\left(-3 l^2 r^4+r^6+8 r^5 R-2 l^2 r^2 R^2+22 r^4 R^2+24 r^3 R^3+l^2 R^4+5 r^2 R^4-16 r R^5\right)}{(r+R)^2\left(r^2+2 r R-R^2\right)^2}\right\}$$

$$\left\{X63,\ \text{ISOGONAL CONJUGATE OF } X(19),\ X91,\ \text{ISOGONAL CONJUGATE OF } X(47),\ -\frac{1}{(r+R)^2\left(l^2 r+r^3-l^2 R+3 r^2 R+2 r R^2+2 R^3\right)^2}\left(l^6 r^4+3 l^4 r^6+3 l^2 r^8+r^{10}-2 l^6 r^3 R+6 l^4 r^5 R-6 l^2 r^7 R+18 r^9 R+12 l^4 r^4 R^2-96 l^2 r^6 R^2+132 r^8 R^2-2 l^6 r R^3+46 l^4 r^3 R^3-286 l^2 r^5 R^3+514 r^7 R^3-l^6 R^4+45 l^4 r^2 R^4-463 l^2 r^4 R^4+1171 r^6 R^4+32 l^4 r R^5-480 l^2 r^3 R^5+1648 r^5 R^5+4 l^4 R^6-272 l^2 r^2 R^6+1500 r^4 R^6-88 l^2 r R^7+904 r^3 R^7-4 l^2 R^8+332 r^2 R^8+64 r R^9\right)\right\}$$

$$\left\{X63,\ \text{ISOGONAL CONJUGATE OF } X(19),\ X92,\ \text{CEVAPOINT OF INCENTER AND CLAWSON POINT},\ -\frac{1}{(r+R)^2\left(l^2+r^2-4 R^2\right)^2} r^2\left(l^6+3 l^4 r^2+3 l^2 r^4+r^6+8 l^4 r R-8 l^2 r^3 R+16 r^5 R-4 l^4 R^2-80 l^2 r^2 R^2+100 r^4 R^2-112 l^2 r R^3+304 r^3 R^3-16 l^2 R^4+448 r^2 R^4+256 r R^5\right)\right\}$$

$$\left\{X63,\ \text{ISOGONAL CONJUGATE OF } X(19),\ X93,\ \text{ISOGONAL CONJUGATE OF } X(49),\ -\left(\left(l^{10} r^2+5 l^8 r^4+10 l^6 r^6+10 l^4 r^8+5 l^2 r^{10}+r^{12}-16 l^8 r^3 R-24 l^6 r^5 R+24 l^4 r^7 R+56 l^2 r^9 R+24 r^{11} R-22 l^8 r^2 R^2+92 l^6 r^4 R^2-136 l^4 r^6 R^2+260 l^2 r^8 R^2+254 r^{10} R^2-2 l^8 r R^3+304 l^6 r^3 R^3-700 l^4 r^5 R^3+560 l^2 r^7 R^3+1566 r^9 R^3+160 l^6 r^2 R^4-1292 l^4 r^4 R^4+72 l^2 r^6 R^4+6260 r^8 R^4-14 l^6 r R^5-690 l^4 r^3 R^5-2610 l^2 r^5 R^5+17074 r^7 R^5-8 l^6 R^6+338 l^4 r^2 R^6-6576 l^2 r^4 R^6+32486 r^6 R^6+342 l^4 r R^7-7820 l^2 r^3 R^7+43142 r^5 R^7+48 l^4 R^8-4697 l^2 r^2 R^8+39115 r^4 R^8-1222 l^2 r R^9+22930 r^3 R^9-72 l^2 R^{10}+7724 r^2 R^{10}+1112 r R^{11}-4 R^{12}\right)\Big/\left((r+R)^2\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-8 l^2 R^2+24 r^2 R^2+32 r R^3+13 R^4\right)^2\right)\right)\right\}$$

$$\left\{X63,\ \text{ISOGONAL CONJUGATE OF } X(19),\ X94,\ \text{ISOGONAL CONJUGATE OF } X(50),\ -\left(\left(l^{10} r^2+5 l^8 r^4+10 l^6 r^6+10 l^4 r^8+5 l^2 r^{10}+r^{12}-16 l^8 r^3 R-24 l^6 r^5 R+24 l^4 r^7 R+56 l^2 r^9 R+24 r^{11} R-28 l^8 r^2 R^2+76 l^6 r^4 R^2-148 l^4 r^6 R^2+260 l^2 r^8 R^2+256 r^{10} R^2+372 l^6 r^3 R^3-716 l^4 r^5 R^3+524 l^2 r^7 R^3+1612 r^9 R^3+194 l^6 r^2 R^4-1310 l^4 r^4 R^4-418 l^2 r^6 R^4+6718 r^8 R^4-120 l^6 r R^5-252 l^4 r^3 R^5-5176 l^2 r^5 R^5+19660 r^7 R^5-36 l^6 R^6+1860 l^4 r^2 R^6-13752 l^2 r^4 R^6+41616 r^6 R^6+1584 l^4 r R^7-19668 l^2 r^3 R^7+64132 r^5 R^7+216 l^4 R^8-15435 l^2 r^2 R^8+70785 r^4 R^8-5400 l^2 r R^9+53388 r^3 R^9-324 l^2 R^{10}+24624 r^2 R^{10}+5184 r R^{11}\right)\Big/\left((r+R)^2\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-12 l^2 R^2+28 r^2 R^2+48 r R^3+27 R^4\right)^2\right)\right)\right\}$$

$$\left\{X63,\ \text{ISOGONAL CONJUGATE OF } X(19),\ X95,\ \text{CEVAPOINT OF CENTROID AND CIRCUMCENTER},\ -\left(\left(r^2\left(l^{10}+21 l^8 r^2+58 l^6 r^4+58 l^4 r^6+21 l^2 r^8+r^{10}-32 l^8 r R-424 l^6 r^3 R+424 l^4 r^5 R+328 l^2 r^7 R+24 r^9 R-12 l^8 R^2+200 l^6 r^2 R^2+816 l^4 r^4 R^2+2136 l^2 r^6 R^2+252 r^8 R^2+368 l^6 r R^3-1008 l^4 r^3 R^3+7312 l^2 r^5 R^3+1520 r^7 R^3+32 l^6 R^4-3728 l^4 r^2 R^4+13568 l^2 r^4 R^4+5808 r^6 R^4-640 l^4 r R^5+12160 l^2 r^3 R^5+14592 r^5 R^5+64 l^4 R^6+2432 l^2 r^2 R^6+24128 r^4 R^6-2304 l^2 r R^7+25344 r^3 R^7-256 l^2 R^8+15360 r^2 R^8+4096 r R^9\right)\right)\Big/\left((r+R)^2\left(l^4+18 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-4 l^2 R^2+20 r^2 R^2+16 r R^3\right)^2\right)\right)\right\}$$

$$\left\{X63,\ \text{ISOGONAL CONJUGATE OF } X(19),\ X96,\ \text{ISOGONAL CONJUGATE OF } X(52),\ \frac{1}{(r+R)^2\left(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2-4 R^4\right)^2}\left(l^{10} r^2-11 l^8 r^4-38 l^6 r^6-38 l^4 r^8-11 l^2 r^{10}+r^{12}+2 l^{10} r R-58 l^8 r^3 R+316 l^6 r^5 R-316 l^4 r^7 R-158 l^2 r^9 R+22 r^{11} R-44 l^8 r^2 R^2+704 l^6 r^4 R^2-1192 l^4 r^6 R^2-960 l^2 r^8 R^2+212 r^{10} R^2+392 l^6 r^3 R^3-2008 l^4 r^5 R^3-3272 l^2 r^7 R^3+1176 r^9 R^3+12 l^8 R^4-264 l^6 r^2 R^4+400 l^4 r^4 R^4-7320 l^2 r^6 R^4+4164 r^8 R^4-288 l^6 r R^5+3440 l^4 r^3 R^5-12576 l^2 r^5 R^5+9936 r^7 R^5-64 l^6 R^6+3136 l^4 r^2 R^6-16832 l^2 r^4 R^6+16640 r^6 R^6+1120 l^4 r R^7-13920 l^2 r^3 R^7+20224 r^5 R^7+128 l^4 R^8-6320 l^2 r^2 R^8+17680 r^4 R^8-1440 l^2 r R^9+10080 r^3 R^9-128 l^2 R^{10}+3392 r^2 R^{10}+640 r R^{11}+64 R^{12}\right)\right\}$$

$$\{X63,\ \text{ISOGONAL CONJUGATE OF } X(19),\ X97,\ \text{ISOGONAL CONJUGATE OF } X(53),$$
$$-\Big(\Big(R\,\big(-2\,l^{10}\,r+20\,l^8\,r^3-56\,l^6\,r^5+44\,l^4\,r^7-6\,l^2\,r^9-l^{10}\,R+47\,l^8\,r^2\,R-276\,l^6\,r^4\,R+$$
$$408\,l^4\,r^6\,R-99\,l^2\,r^8\,R+r^{10}\,R+52\,l^8\,r\,R^2-614\,l^6\,r^3\,R^2+1574\,l^4\,r^5\,R^2-714\,l^2\,r^7\,R^2+$$
$$22\,r^9\,R^2+12\,l^8\,R^3-687\,l^6\,r^2\,R^3+3379\,l^4\,r^4\,R^3-2897\,l^2\,r^6\,R^3+209\,r^8\,R^3-400\,l^6\,r\,R^4+$$
$$4420\,l^4\,r^3\,R^4-7224\,l^2\,r^5\,R^4+1124\,r^7\,R^4-52\,l^6\,R^5+3392\,l^4\,r^2\,R^5-11\,460\,l^2\,r^4\,R^5+$$
$$3768\,r^6\,R^5+1312\,l^4\,r\,R^6-11\,520\,l^2\,r^3\,R^6+8160\,r^5\,R^6+96\,l^4\,R^7-6864\,l^2\,r^2\,R^7+$$
$$11\,408\,r^4\,R^7-1920\,l^2\,r\,R^8+9920\,r^3\,R^8-64\,l^2\,R^9+4864\,r^2\,R^9+1024\,r\,R^{10}\big)\Big)\Big/$$
$$\Big((r+R)^2\,\big(l^4-6\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-7\,l^2\,R^2+23\,r^2\,R^2+28\,r\,R^3+12\,R^4\big)^2\Big)\Big)\Big\}$$

$$\{X63,\ \text{ISOGONAL CONJUGATE OF } X(19),\ X98,\ \text{TarryPoint},$$
$$\big(l^6\,r^2+3\,l^4\,r^4+3\,l^2\,r^6+r^8+2\,l^6\,r\,R-22\,l^4\,r^3\,R+22\,l^2\,r^5\,R+14\,r^7\,R-28\,l^4\,r^2\,R^2+64\,l^2\,r^4\,R^2+76\,r^6\,R^2-$$
$$8\,l^4\,r\,R^3+96\,l^2\,r^3\,R^3+200\,r^5\,R^3+4\,l^4\,R^4-8\,l^2\,r^2\,R^4+260\,r^4\,R^4-32\,l^2\,r\,R^5+160\,r^3\,R^5+64\,r^2\,R^6\big)\Big/$$
$$\Big((r+R)^2\,\big(l^4-14\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R+16\,r^2\,R^2\big)\Big)\Big\}$$

$$\{X63,\ \text{ISOGONAL CONJUGATE OF } X(19),\ X99,\ \text{STEINER POINT},$$
$$-\Big(\Big(r^2\,\big(l^6+3\,l^4\,r^2+3\,l^2\,r^4+r^6+8\,l^4\,r\,R-8\,l^2\,r^3\,R+16\,r^5\,R-4\,l^4\,R^2-$$
$$80\,l^2\,r^2\,R^2+100\,r^4\,R^2-112\,l^2\,r\,R^3+304\,r^3\,R^3-16\,l^2\,R^4+448\,r^2\,R^4+256\,r\,R^5\big)\Big)\Big/$$
$$\Big((r+R)^2\,\big(l^4-14\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R+16\,r^2\,R^2\big)\Big)\Big)\Big\}$$

$$\Big\{X63,\ \text{ISOGONAL CONJUGATE OF } X(19),\ X100,$$
$$\text{ANTICOMPLEMENT OF FEUERBACH POINT},\ -\frac{r^2\,R\,\big(-3\,l^2+r^2+8\,r\,R+16\,R^2\big)}{(2\,r-R)\,(r+R)^2}\Big\}$$

$$\{X64,\ \text{ISOGONAL CONJUGATE OF } X(20),\ X65,\ \text{ORTHOCENTER OF THE INTOUCH TRIANGLE},$$
$$\Big((r+2\,R)^2\,\big(-2\,l^4\,r+4\,l^2\,r^3-2\,r^5+3\,l^4\,R+6\,l^2\,r^2\,R-9\,r^4\,R-4\,l^2\,r\,R^2-$$
$$12\,r^3\,R^2-28\,l^2\,R^3+16\,r^2\,R^3+64\,r\,R^4+64\,R^5\big)\Big)\Big/\Big(R\,(-l+r+2\,R)^2\,(l+r+2\,R)^2\Big)\Big\}$$

$$\Big\{X64,\ \text{ISOGONAL CONJUGATE OF } X(20),\ X66,$$
$$\text{ISOGONAL CONJUGATE OF } X(22),\ -\frac{1}{(l-r-2\,R)^2\,(l+r+2\,R)^2\,\big(l^2-r^2-4\,r\,R\big)^2}$$
$$\big(2\,l^{10}-10\,l^8\,r^2+20\,l^6\,r^4-20\,l^4\,r^6+10\,l^2\,r^8-2\,r^{10}-40\,l^8\,r\,R+160\,l^6\,r^3\,R-$$
$$240\,l^4\,r^5\,R+160\,l^2\,r^7\,R-40\,r^9\,R-31\,l^8\,R^2+452\,l^6\,r^2\,R^2-1162\,l^4\,r^4\,R^2+1092\,l^2\,r^6\,R^2-$$
$$351\,r^8\,R^2+496\,l^6\,r\,R^3-2832\,l^4\,r^3\,R^3+4112\,l^2\,r^5\,R^3-1776\,r^7\,R^3+156\,l^6\,R^4-$$
$$3492\,l^4\,r^2\,R^4+9156\,l^2\,r^4\,R^4-5692\,r^6\,R^4-1872\,l^4\,r\,R^5+11\,872\,l^2\,r^3\,R^5-11\,856\,r^5\,R^5-$$
$$256\,l^4\,R^6+8048\,l^2\,r^2\,R^6-15\,680\,r^4\,R^6+2048\,l^2\,r\,R^7-12\,032\,r^3\,R^7-4096\,r^2\,R^8\big)\Big\}$$

$$\{X64,\ \text{ISOGONAL CONJUGATE OF } X(20),\ X67,\ \text{ISOGONAL CONJUGATE OF } X(23),$$
$$-\Big(\Big(\big(l^2-r^2-4\,r\,R-6\,R^2\big)^2\,\big(3\,l^8-16\,l^6\,r^2+26\,l^4\,r^4-16\,l^2\,r^6+3\,r^8-48\,l^6\,r\,R+176\,l^4\,r^3\,R-176\,l^2\,r^5\,R+$$
$$48\,r^7\,R-28\,l^6\,R^2+404\,l^4\,r^2\,R^2-756\,l^2\,r^4\,R^2+316\,r^6\,R^2+336\,l^4\,r\,R^3-1568\,l^2\,r^3\,R^3+$$
$$1104\,r^5\,R^3+64\,l^4\,R^4-1520\,l^2\,r^2\,R^4+2176\,r^4\,R^4-512\,l^2\,r\,R^5+2304\,r^3\,R^5+1024\,r^2\,R^6\big)\Big)\Big/$$
$$\Big((l-r-2\,R)^2\,(l+r+2\,R)^2\,\big(l^2-r^2-4\,r\,R\big)^2\,\big(2\,l^2-2\,r^2-8\,r\,R-9\,R^2\big)\Big)\Big)\Big\}$$

$$\Big\{X64,\ \text{ISOGONAL CONJUGATE OF } X(20),\ X68,$$
$$\text{PRASOLOV POINT},\ -\frac{\big(2\,l^2-2\,r^2-8\,r\,R-9\,R^2\big)\,\big(l^2-r^2-4\,r\,R-6\,R^2\big)^2}{(l-r-2\,R)^2\,(l+r+2\,R)^2}\Big\}$$

$$\{X64,\ \text{ISOGONAL CONJUGATE OF } X(20),\ X69,\ \text{SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},$$
$$-\Big(\Big(\big(l^2-r^2-4\,r\,R-8\,R^2\big)^2\,\big(l^6-7\,l^4\,r^2+7\,l^2\,r^4-r^6-12\,l^4\,r\,R+40\,l^2\,r^3\,R-12\,r^5\,R-4\,l^4\,R^2+68\,l^2\,r^2\,R^2-$$
$$52\,r^4\,R^2+32\,l^2\,r\,R^3-96\,r^3\,R^3-64\,r^2\,R^4\big)\Big)\Big/\Big((l-r-2\,R)^2\,(l+r+2\,R)^2\,\big(l^2-r^2-4\,r\,R\big)^2\Big)\Big)\Big\}$$

$$\{X64,\ \text{ISOGONAL CONJUGATE OF } X(20),\ X70,\ \text{ISOGONAL CONJUGATE OF } X(26),$$
$$-\Big(\Big(\big(l^2-r^2-4\,r\,R-5\,R^2\big)^2\,\big(2\,l^{10}-10\,l^8\,r^2+20\,l^6\,r^4-20\,l^4\,r^6+10\,l^2\,r^8-2\,r^{10}-40\,l^8\,r\,R+160\,l^6\,r^3\,R-$$
$$240\,l^4\,r^5\,R+160\,l^2\,r^7\,R-40\,r^9\,R-36\,l^8\,R^2+468\,l^6\,r^2\,R^2-1184\,l^4\,r^4\,R^2+1108\,l^2\,r^6\,R^2-$$
$$356\,r^8\,R^2+576\,l^6\,r\,R^3-3040\,l^4\,r^3\,R^3+4320\,l^2\,r^5\,R^3-1856\,r^7\,R^3+243\,l^6\,R^4-4213\,l^4\,r^2\,R^4+$$
$$10\,293\,l^2\,r^4\,R^4-6259\,r^6\,R^4-2916\,l^4\,r\,R^5+15\,160\,l^2\,r^3\,R^5-14\,180\,r^5\,R^5-760\,l^4\,R^6+13\,228\,l^2\,r^2\,R^6-$$
$$21\,640\,r^4\,R^6+6080\,l^2\,r\,R^7-21\,632\,r^3\,R^7+1088\,l^2\,R^8-13\,248\,r^2\,R^8-4352\,r\,R^9-576\,R^{10}\big)\big)\,/$$
$$\big((l-r-2\,R)^2\,(l+r+2\,R)^2\,\big(l^4-2\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-6\,l^2\,R^2+22\,r^2\,R^2+24\,r\,R^3+7\,R^4\big)^2\big)\big)\}$$

$$\{X64,\ \text{ISOGONAL CONJUGATE OF } X(20),\ X71,\ \text{ISOGONAL CONJUGATE OF } X(27),$$
$$\frac{4\,R^2\,(r+2\,R)^4\,\big(7\,l^4-6\,l^2\,r^2+3\,r^4-44\,l^2\,r\,R+36\,r^3\,R-92\,l^2\,R^2+160\,r^2\,R^2+320\,r\,R^3+256\,R^4\big)}{(l-r-2\,R)^2\,(l+r+2\,R)^2\,\big(l^2+r^2+6\,r\,R+8\,R^2\big)^2}\}$$

$$\{X64,\ \text{ISOGONAL CONJUGATE OF } X(20),\ X72,$$
$$\text{ISOGONAL CONJUGATE OF } X(28),\ \frac{\big(-l^2+r^2+6\,r\,R+8\,R^2\big)^2\,\big(l^2\,r-r^3-l^2\,R-2\,r^2\,R+4\,R^3\big)}{R\,(-l+r+2\,R)^2\,(l+r+2\,R)^2}\}$$

$$\{X64,\ \text{ISOGONAL CONJUGATE OF } X(20),\ X73,\ \text{CROSSPOINT OF INCENTER AND CIRCUMCENTER},$$
$$\frac{4\,R^2\,\big(l^2-2\,r\,R-4\,R^2\big)^2\,\big(3\,l^4-6\,l^2\,r^2+7\,r^4-28\,l^2\,r\,R+36\,r^3\,R-28\,l^2\,R^2+96\,r^2\,R^2+128\,r\,R^3+64\,R^4\big)}{(l-r-2\,R)^2\,(l+r+2\,R)^2\,\big(l^2+r^2-2\,r\,R-4\,R^2\big)^2}\}$$

$$\{X64,\ \text{ISOGONAL CONJUGATE OF } X(20),\ X74,\ \text{ISOGONAL CONJUGATE OF EULER INFINITY POINT},$$
$$\big(R^2\,\big(3\,l^6-5\,l^4\,r^2+5\,l^2\,r^4-3\,r^6-36\,l^4\,r\,R+56\,l^2\,r^3\,R-36\,r^5\,R-56\,l^4\,R^2+236\,l^2\,r^2\,R^2-$$
$$200\,r^4\,R^2+448\,l^2\,r\,R^3-640\,r^3\,R^3+320\,l^2\,R^4-1216\,r^2\,R^4-1280\,r\,R^5-576\,R^6\big)\big)\,/$$
$$\big((l-r-2\,R)^2\,(l+r+2\,R)^2\,\big(2\,l^2-2\,r^2-8\,r\,R-9\,R^2\big)\big)\}$$

$$\{X64,\ \text{ISOGONAL CONJUGATE OF } X(20),\ X75,$$
$$\text{ISOTOMIC CONJUGATE OF INCENTER},\ -\frac{1}{(l-r-2\,R)^2\,(l+r+2\,R)^2\,\big(l^2+r^2+4\,r\,R\big)^2}$$
$$\big(l^{10}+3\,l^8\,r^2+2\,l^6\,r^4-2\,l^4\,r^6-3\,l^2\,r^8-r^{10}-4\,l^8\,r\,R-48\,l^6\,r^3\,R+56\,l^4\,r^5\,R-48\,l^2\,r^7\,R-20\,r^9\,R-$$
$$20\,l^8\,R^2-148\,l^6\,r^2\,R^2+448\,l^4\,r^4\,R^2-308\,l^2\,r^6\,R^2-180\,r^8\,R^2+1248\,l^4\,r^3\,R^3-1120\,l^2\,r^5\,R^3-$$
$$960\,r^7\,R^3+128\,l^6\,R^4+1472\,l^4\,r^2\,R^4-2560\,l^2\,r^4\,R^4-3328\,r^6\,R^4+512\,l^4\,r\,R^5-3840\,l^2\,r^3\,R^5-$$
$$7680\,r^5\,R^5-256\,l^4\,R^6-3840\,l^2\,r^2\,R^6-11\,520\,r^4\,R^6-2048\,l^2\,r\,R^7-10\,240\,r^3\,R^7-4096\,r^2\,R^8\big)\}$$

$$\{X64,\ \text{ISOGONAL CONJUGATE OF } X(20),\ X76,\ \text{3rd BROCARD POINT},$$
$$-\Big(\Big(l^{14}+5\,l^{12}\,r^2+9\,l^{10}\,r^4+5\,l^8\,r^6-5\,l^6\,r^8-9\,l^4\,r^{10}-5\,l^2\,r^{12}-r^{14}-28\,l^{12}\,r\,R-72\,l^{10}\,r^3\,R-36\,l^8\,r^5\,R+$$
$$16\,l^6\,r^7\,R-36\,l^4\,r^9\,R-72\,l^2\,r^{11}\,R-28\,r^{13}\,R-20\,l^{12}\,R^2+244\,l^{10}\,r^2\,R^2-76\,l^8\,r^4\,R^2+$$
$$440\,l^6\,r^6\,R^2-220\,l^4\,r^8\,R^2-332\,l^2\,r^{10}\,R^2-356\,r^{12}\,R^2+480\,l^{10}\,r\,R^3-1248\,l^8\,r^3\,R^3+$$
$$2816\,l^6\,r^5\,R^3-2688\,l^4\,r^7\,R^3+288\,l^2\,r^9\,R^3-2720\,r^{11}\,R^3+128\,l^{10}\,R^4-4224\,l^8\,r^2\,R^4+$$
$$10\,304\,l^6\,r^4\,R^4-15\,936\,l^4\,r^6\,R^4+9792\,l^2\,r^8\,R^4-13\,888\,r^{10}\,R^4-2560\,l^8\,r\,R^5+21\,248\,l^6\,r^3\,R^5-$$
$$49\,664\,l^4\,r^5\,R^5+48\,896\,l^2\,r^7\,R^5-49\,664\,r^9\,R^5-256\,l^8\,R^6+19\,200\,l^6\,r^2\,R^6-86\,016\,l^4\,r^4\,R^6+$$
$$129\,792\,l^2\,r^6\,R^6-126\,208\,r^8\,R^6+4096\,l^6\,r\,R^7-75\,776\,l^4\,r^3\,R^7+202\,752\,l^2\,r^5\,R^7-225\,280\,r^7\,R^7-$$
$$24\,576\,l^4\,r^2\,R^8+176\,128\,l^2\,r^4\,R^8-270\,336\,r^6\,R^8+65\,536\,l^2\,r^3\,R^9-196\,608\,r^5\,R^9-65\,536\,r^4\,R^{10}\Big)\,/$$
$$\big((l-r-2\,R)^2\,(l+r+2\,R)^2\,\big(l^4+2\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R+16\,r^2\,R^2\big)^2\big)\big)\}$$

$$\{X64,\ \text{ISOGONAL CONJUGATE OF } X(20),\ X77,$$
$$\text{ISOGONAL CONJUGATE OF } X(33),\ -\frac{1}{(l-r-2\,R)^2\,(l+r+2\,R)^2\,\big(l^2-r\,R-4\,R^2\big)^2}$$
$$R\,\big(2\,l^8\,r-4\,l^6\,r^3+2\,l^4\,r^5-12\,l^8\,R+9\,l^6\,r^2\,R-7\,l^4\,r^4\,R+7\,l^2\,r^6\,R-r^8\,R+112\,l^6\,r\,R^2-$$
$$156\,l^4\,r^3\,R^2+104\,l^2\,r^5\,R^2-20\,r^7\,R^2+208\,l^6\,R^3-756\,l^4\,r^2\,R^3+692\,l^2\,r^4\,R^3-180\,r^6\,R^3-$$
$$1632\,l^4\,r\,R^4+2592\,l^2\,r^3\,R^4-960\,r^5\,R^4-1344\,l^4\,R^5+5760\,l^2\,r^2\,R^5-3328\,r^4\,R^5+$$
$$7168\,l^2\,r\,R^6-7680\,r^3\,R^6+3840\,l^2\,R^7-11\,520\,r^2\,R^7-10\,240\,r\,R^8-4096\,R^9\big)\}$$

$$\{X64,\ \text{ISOGONAL CONJUGATE OF } X(20),\ X78,\ \text{ISOGONAL CONJUGATE OF } X(34),$$
$$-\left(\left(R\left(-2 l^6 r+4 l^4 r^3-2 l^2 r^5+l^6 R+17 l^4 r^2 R-25 l^2 r^4 R+3 r^6 R+28 l^4 r R^2-96 l^2 r^3 R^2+44 r^5 R^2-20 l^4 R^3-188 l^2 r^2 R^3+204 r^4 R^3-96 l^2 r R^4+448 r^3 R^4+128 l^2 R^5+448 r^2 R^5-256 R^7\right)\right)\Big/\left((r-R)^2(-l+r+2R)^2(l+r+2R)^2\right)\right)\}$$

$$\{X64,\ \text{ISOGONAL CONJUGATE OF } X(20),\ X79,\ \text{ISOGONAL CONJUGATE OF } X(35),$$
$$\left(4\left(-4 l^6 r^2+6 l^4 r^4-4 l^2 r^6+2 r^8-3 l^6 r R+42 l^4 r^3 R-53 l^2 r^5 R+30 r^7 R+98 l^4 r^2 R^2-276 l^2 r^4 R^2+206 r^6 R^2+87 l^4 r R^3-739 l^2 r^3 R^3+832 r^5 R^3+27 l^4 R^4-1079 l^2 r^2 R^4+2137 r^4 R^4-816 l^2 r R^5+3548 r^3 R^5-252 l^2 R^6+3700 r^2 R^6+2208 r R^7+576 R^8\right)\right)\Big/\left((-l+r+2R)^2(l+r+2R)^2(2r+3R)^2\right)\}$$

$$\{X64,\ \text{ISOGONAL CONJUGATE OF } X(20),\ X80,\ \text{REFLECTION OF INCENTER IN FEUERBACH POINT},$$
$$\left(4\left(-l^6 r+2 l^4 r^3-3 l^2 r^5+2 r^7+14 l^4 r^2 R-26 l^2 r^4 R+20 r^6 R+19 l^4 r R^2-95 l^2 r^3 R^2+94 r^5 R^2-3 l^4 R^3-161 l^2 r^2 R^3+263 r^4 R^3-88 l^2 r R^4+444 r^3 R^4+28 l^2 R^5+396 r^2 R^5+96 r R^6-64 R^7\right)\right)\Big/\left((2r-R)(-l+r+2R)^2(l+r+2R)^2\right)\}$$

$$\{X64,\ \text{ISOGONAL CONJUGATE OF } X(20),\ X81,$$
$$\text{CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},\ -\frac{1}{(l-r-2R)^2(l+r+2R)^2\left(l^2-r^2-r R\right)^2}$$
$$R\left(2 l^8 r-4 l^4 r^5+2 r^9-12 l^8 R+37 l^6 r^2 R-75 l^4 r^4 R+35 l^2 r^6 R+15 r^8 R+104 l^6 r R^2-356 l^4 r^3 R^2+304 l^2 r^5 R^2+28 r^7 R^2+112 l^6 R^3-708 l^4 r^2 R^3+1044 l^2 r^4 R^3-84 r^6 R^3-640 l^4 r R^4+1792 l^2 r^3 R^4-480 r^5 R^4-256 l^4 R^5+1536 l^2 r^2 R^5-896 r^4 R^5+512 l^2 r R^6-768 r^3 R^6-256 r^2 R^7\right)\}$$

$$\{X64,\ \text{ISOGONAL CONJUGATE OF } X(20),\ X82,\ \text{ISOGONAL CONJUGATE OF } X(38),$$
$$-\left(\left(R\left(2 l^{12} r-2 l^{10} r^3-8 l^8 r^5+4 l^6 r^7+10 l^4 r^9-2 l^2 r^{11}-4 r^{13}-12 l^{12} R+61 l^{10} r^2 R-301 l^8 r^4 R+682 l^6 r^6 R-670 l^4 r^8 R+409 l^2 r^{10} R-169 r^{12} R+296 l^{10} r R^2-1932 l^8 r^3 R^2+6168 l^6 r^5 R^2-9280 l^4 r^7 R^2+6944 l^2 r^9 R^2-2516 r^{11} R^2+112 l^{10} R^3-4164 l^8 r^2 R^3+22236 l^6 r^4 R^3-49520 l^4 r^6 R^3+48972 l^2 r^8 R^3-19764 r^{10} R^3-2432 l^8 r R^4+36736 l^6 r^3 R^4-135648 l^4 r^5 R^4+190368 l^2 r^7 R^4-94848 r^9 R^4-256 l^8 R^5+24704 l^6 r^2 R^5-197952 l^4 r^4 R^5+440192 l^2 r^6 R^5-295552 r^8 R^5+4608 l^6 r R^6-140288 l^4 r^3 R^6+599808 l^2 r^5 R^6-605696 r^7 R^6-35072 l^4 r^2 R^7+438528 l^2 r^4 R^7-791808 r^6 R^7+129024 l^2 r^3 R^8-600064 r^5 R^8-200704 r^4 R^9\right)\right)\Big/\left((l-r-2R)^2(l+r+2R)^2\left(l^4-4 l^2 r^2+3 r^4-9 l^2 r R+19 r^3 R+28 r^2 R^2\right)^2\right)\right)\}$$

$$\{X64,\ \text{ISOGONAL CONJUGATE OF } X(20),\ X83,\ \text{CEVAPOINT OF CENTROID AND SYMMEDIAN POINT},$$
$$-\left(\left(9 l^{14}+13 l^{12} r^2-15 l^{10} r^4-19 l^8 r^6+19 l^6 r^8+15 l^4 r^{10}-13 l^2 r^{12}-9 r^{14}-252 l^{12} r R-8 l^{10} r^3 R+188 l^8 r^5 R-112 l^6 r^7 R+188 l^4 r^9 R-8 l^2 r^{11} R-252 r^{13} R-372 l^{12} R^2+3956 l^{10} r^2 R^2-4972 l^8 r^4 R^2+4792 l^6 r^6 R^2-4220 l^4 r^8 R^2+3892 l^2 r^{10} R^2-3396 r^{12} R^2+8928 l^{10} r R^3-44000 l^8 r^3 R^3+71936 l^6 r^5 R^3-74880 l^4 r^7 R^3+55840 l^2 r^9 R^3-29088 r^{11} R^3+2944 l^{10} R^4-96768 l^8 r^2 R^4+326080 l^6 r^4 R^4-469952 l^4 r^6 R^4+384448 l^2 r^8 R^4-172864 r^{10} R^4-58880 l^8 r R^5+624896 l^6 r^3 R^5-1490432 l^4 r^5 R^5+1553664 l^2 r^7 R^5-728576 r^9 R^5-6400 l^8 R^6+482048 l^6 r^2 R^6-2512896 l^4 r^4 R^6+3859200 l^2 r^6 R^6-2163968 r^8 R^6+102400 l^6 r R^7-2074624 l^4 r^3 R^7+5781504 l^2 r^5 R^7-4419584 r^7 R^7-614400 l^4 r^2 R^8+4763648 l^2 r^4 R^8-5906432 r^6 R^8+1638400 l^2 r^3 R^9-4653056 r^5 R^9-1638400 r^4 R^{10}\right)\Big/\left((l-r-2R)^2(l+r+2R)^2\left(5 l^4-6 l^2 r^2+5 r^4-40 l^2 r R+40 r^3 R+80 r^2 R^2\right)^2\right)\right)\}$$

$$\{X64,\ \text{ISOGONAL CONJUGATE OF } X(20),\ X84,\ \text{ISOGONAL CONJUGATE OF } X(40),$$
$$\left(4 R\left(-l^4 r^3+l^2 r^5-l^6 R+5 l^4 r^2 R-2 l^2 r^4 R+3 r^6 R+16 l^4 r R^2-44 l^2 r^3 R^2+32 r^5 R^2+12 l^4 R^3-124 l^2 r^2 R^3+144 r^4 R^3-128 l^2 r R^4+336 r^3 R^4-48 l^2 R^5+416 r^2 R^5+256 r R^6+64 R^7\right)\right)\Big/\left(r^2(-l+r+2R)^2(l+r+2R)^2\right)\}$$

$$\Big\{X64,\ \text{ISOGONAL CONJUGATE OF } X(20),\ X85,$$

$$\text{ISOTOMIC CONJUGATE OF } X(9),\ -\frac{1}{(1-r-2R)^2\,(1+r+2R)^2\,\left(1^2+r^2+8\,r\,R+16\,R^2\right)^2}$$

$$\Big(1^{10}+3\,1^8\,r^2+2\,1^6\,r^4-2\,1^4\,r^6-3\,1^2\,r^8-r^{10}+20\,1^8\,r\,R-48\,1^6\,r^3\,R+40\,1^4\,r^5\,R-48\,1^2\,r^7\,R-$$
$$28\,r^9\,R+12\,1^8\,R^2-356\,1^6\,r^2\,R^2+528\,1^4\,r^4\,R^2-292\,1^2\,r^6\,R^2-356\,r^8\,R^2-800\,1^6\,r\,R^3+$$
$$2272\,1^4\,r^3\,R^3-672\,1^2\,r^5\,R^3-2720\,r^7\,R^3-512\,1^6\,R^4+4480\,1^4\,r^2\,R^4+1088\,1^2\,r^4\,R^4-13\,888\,r^6\,R^4+$$
$$3840\,1^4\,r\,R^5+11\,008\,1^2\,r^3\,R^5-49\,664\,r^5\,R^5+768\,1^4\,R^6+29\,952\,1^2\,r^2\,R^6-126\,208\,r^4\,R^6+$$
$$38\,912\,1^2\,r\,R^7-225\,280\,r^3\,R^7+20\,480\,1^2\,R^8-270\,336\,r^2\,R^8-196\,608\,r\,R^9-65\,536\,R^{10}\Big)\Big\}$$

$$\Big\{X64,\ \text{ISOGONAL CONJUGATE OF } X(20),\ X86,$$

$$\text{CEVAPOINT OF INCENTER AND CENTROID},\ -\frac{1}{(1-r-2R)^2\,(1+r+2R)^2\,\left(5\,1^2+r^2+4\,r\,R\right)^2}$$

$$\Big(9\,1^{10}+11\,1^8\,r^2-6\,1^6\,r^4-10\,1^4\,r^6-3\,1^2\,r^8-r^{10}-68\,1^8\,r\,R-32\,1^6\,r^3\,R-8\,1^4\,r^5\,R-64\,1^2\,r^7\,R-20\,r^9\,R-$$
$$372\,1^8\,R^2+396\,1^6\,r^2\,R^2+128\,1^4\,r^4\,R^2-564\,1^2\,r^6\,R^2-180\,r^8\,R^2+2176\,1^6\,r\,R^3+32\,1^4\,r^3\,R^3-2848\,1^2\,r^5\,R^3-$$
$$960\,r^7\,R^3+2944\,1^6\,R^4-2112\,1^4\,r^2\,R^4-8960\,1^2\,r^4\,R^4-3328\,r^6\,R^4-6656\,1^4\,r\,R^5-17\,664\,1^2\,r^3\,R^5-$$
$$7680\,r^5\,R^5-6400\,1^4\,R^6-20\,224\,1^2\,r^2\,R^6-11\,520\,r^4\,R^6-10\,240\,1^2\,r\,R^7-10\,240\,r^3\,R^7-4096\,r^2\,R^8\Big)\Big\}$$

$$\Big\{X64,\ \text{ISOGONAL CONJUGATE OF } X(20),\ X87,\ X(2)\text{-CROSS CONJUGATE OF } X(1),$$

$$\Big(4\,R\,\Big(1^{12}\,r+3\,1^{10}\,r^3+2\,1^8\,r^5-2\,1^6\,r^7-3\,1^4\,r^9-1^2\,r^{11}+3\,1^{12}\,R-31\,1^{10}\,r^2\,R-41\,1^8\,r^4\,R+$$
$$22\,1^6\,r^6\,R+21\,1^4\,r^8\,R-15\,1^2\,r^{10}\,R-7\,r^{12}\,R-152\,1^{10}\,r\,R^2+420\,1^8\,r^3\,R^2+104\,1^6\,r^5\,R^2-$$
$$240\,1^4\,r^7\,R^2+112\,1^2\,r^9\,R^2-116\,r^{11}\,R^2-28\,1^{10}\,R^3+2580\,1^8\,r^2\,R^3-4920\,1^6\,r^4\,R^3+$$
$$2296\,1^4\,r^6\,R^3-12\,1^2\,r^8\,R^3-620\,r^{10}\,R^3+1248\,1^8\,r\,R^4-18\,496\,1^6\,r^3\,R^4+26\,816\,1^4\,r^5\,R^4-$$
$$11\,840\,1^2\,r^7\,R^4-32\,r^9\,R^4+64\,1^8\,R^5-17\,664\,1^6\,r^2\,R^5+78\,464\,1^4\,r^4\,R^5-69\,632\,1^2\,r^6\,R^5+$$
$$13\,376\,r^8\,R^5-2560\,1^6\,r\,R^6+87\,040\,1^4\,r^3\,R^6-169\,472\,1^2\,r^5\,R^6+62\,464\,r^7\,R^6+29\,696\,1^4\,r^2\,R^7-$$
$$191\,488\,1^2\,r^4\,R^7+135\,168\,r^6\,R^7-81\,920\,1^2\,r^3\,R^8+147\,456\,r^5\,R^8+65\,536\,r^4\,R^9\Big)\Big)\Big/$$
$$\Big((1-r-2R)^2\,(1+r+2R)^2\,\left(1^4+2\,1^2\,r^2+r^4-20\,1^2\,r\,R+12\,r^3\,R+32\,r^2\,R^2\right)^2\Big)\Big\}$$

$$\Big\{X64,\ \text{ISOGONAL CONJUGATE OF } X(20),\ X88,$$

$$\text{ISOGONAL CONJUGATE OF } X(44),\ \frac{1}{(1-r-2R)^2\,(1+r+2R)^2\,\left(1^2+3\,r^2-15\,r\,R\right)^2}$$

$$R\,\Big(2\,1^8\,r+16\,1^6\,r^3-12\,1^4\,r^5+48\,1^2\,r^7-54\,r^9+12\,1^8\,R-53\,1^6\,r^2\,R-245\,1^4\,r^4\,R+$$
$$381\,1^2\,r^6\,R-351\,r^8\,R-472\,1^6\,r\,R^2+564\,1^4\,r^3\,R^2+576\,1^2\,r^5\,R^2-972\,r^7\,R^2-112\,1^6\,R^3+$$
$$5956\,1^4\,r^2\,R^3-4884\,1^2\,r^4\,R^3+468\,r^6\,R^3+3840\,1^4\,r\,R^4-27\,072\,1^2\,r^3\,R^4+14\,688\,r^5\,R^4+$$
$$256\,1^4\,R^5-38\,400\,1^2\,r^2\,R^5+54\,144\,r^4\,R^5-7680\,1^2\,r\,R^6+89\,856\,r^3\,R^6+57\,600\,r^2\,R^7\Big)\Big\}$$

$$\Big\{X64,\ \text{ISOGONAL CONJUGATE OF } X(20),\ X89,$$

$$\text{ISOGONAL CONJUGATE OF } X(45),\ -\frac{1}{(1-r-2R)^2\,(1+r+2R)^2\,\left(2\,1^2-6\,r^2+3\,r\,R\right)^2}$$

$$R\,\Big(4\,1^8\,r+32\,1^6\,r^3-48\,1^4\,r^5-96\,1^2\,r^7+108\,r^9-48\,1^8\,R+341\,1^6\,r^2\,R-643\,1^4\,r^4\,R-$$
$$285\,1^2\,r^6\,R+891\,r^8\,R+208\,1^6\,r\,R^2-1836\,1^4\,r^3\,R^2+504\,1^2\,r^5\,R^2+3348\,r^7\,R^2+448\,1^6\,R^3-$$
$$2644\,1^4\,r^2\,R^3+1668\,1^2\,r^4\,R^3+7740\,r^6\,R^3-384\,1^4\,r\,R^4+2016\,1^2\,r^3\,R^4+12\,960\,r^5\,R^4-$$
$$1024\,1^4\,R^5+1344\,1^2\,r^2\,R^5+14\,976\,r^4\,R^5-3072\,1^2\,r\,R^6+6912\,r^3\,R^6-2304\,r^2\,R^7\Big)\Big\}$$

$$\Big\{X64,\ \text{ISOGONAL CONJUGATE OF } X(20),\ X90,$$

$$X(3)\text{-CROSS CONJUGATE OF } X(1),\ -\frac{1}{(1-r-2R)^2\,(1+r+2R)^2\,\left(r^2+2\,r\,R-R^2\right)^2}$$

$$4\,R\,\Big(1^4\,r^5-1^2\,r^7+2\,1^6\,r^2\,R-5\,1^4\,r^4\,R+1^2\,r^6\,R-3\,r^8\,R-1^6\,r\,R^2-31\,1^4\,r^3\,R^2+55\,1^2\,r^5\,R^2-$$
$$39\,r^7\,R^2-22\,1^4\,r^2\,R^3+214\,1^2\,r^4\,R^3-210\,r^6\,R^3+25\,1^4\,r\,R^4+267\,1^2\,r^3\,R^4-584\,r^5\,R^4-3\,1^4\,R^5-$$
$$9\,1^2\,r^2\,R^5-825\,r^4\,R^5-144\,1^2\,r\,R^6-396\,r^3\,R^6+28\,1^2\,R^7+268\,r^2\,R^7+224\,r\,R^8-64\,R^9\Big)\Big\}$$

$$\{X64,\ \text{ISOGONAL CONJUGATE OF } X(20),\ X91,\ \text{ISOGONAL CONJUGATE OF } X(47),$$
$$-\Big(\big(l^{10} r^2 + 3 l^8 r^4 + 2 l^6 r^6 - 2 l^4 r^8 - 3 l^2 r^{10} - r^{12} - 2 l^{10} r R - 4 l^8 r^3 R - 48 l^6 r^5 R + 52 l^4 r^7 R - 46 l^2 r^9 R - 16 r^{11} R + 16 l^8 r^2 R^2 - 192 l^6 r^4 R^2 + 508 l^4 r^6 R^2 - 360 l^2 r^8 R^2 - 116 r^{10} R^2 + 52 l^8 r R^3 - 292 l^6 r^3 R^3 + 1740 l^4 r^5 R^3 - 1676 l^2 r^7 R^3 - 496 r^9 R^3 - 12 l^8 R^4 - 408 l^6 r^2 R^4 + 2876 l^4 r^4 R^4 - 4704 l^2 r^6 R^4 - 1384 r^8 R^4 - 280 l^6 r R^5 + 2544 l^4 r^3 R^5 - 7784 l^2 r^5 R^5 - 2736 r^7 R^5 + 160 l^6 R^6 + 1344 l^4 r^2 R^6 - 6896 l^2 r^4 R^6 - 4384 r^6 R^6 - 16 l^4 r R^7 - 1936 l^2 r^3 R^7 - 6656 r^5 R^7 - 752 l^4 R^8 + 1904 l^2 r^2 R^8 - 9360 r^4 R^8 + 2560 l^2 r R^9 - 10176 r^3 R^9 + 1472 l^2 R^{10} - 7488 r^2 R^{10} - 3584 r R^{11} - 1024 R^{12}\big) \Big/ \big((1 - r - 2R)^2 (1 + r + 2R)^2 \left(l^2 r + r^3 - l^2 R + 3 r^2 R + 2 r R^2 + 2 R^3\right)^2\big)\Big)\}$$

$$\{X64,\ \text{ISOGONAL CONJUGATE OF } X(20),\ X92,$$
$$\text{CEVAPOINT OF INCENTER AND CLAWSON POINT},\ -\frac{1}{(1 - r - 2R)^2 (1 + r + 2R)^2 \left(l^2 + r^2 - 4R^2\right)^2}$$
$$\big(l^{10} + 3 l^8 r^2 + 2 l^6 r^4 - 2 l^4 r^6 - 3 l^2 r^8 - r^{10} - 4 l^8 r R - 56 l^6 r^3 R + 48 l^4 r^5 R - 40 l^2 r^7 R - 12 r^9 R - 28 l^8 R^2 - 148 l^6 r^2 R^2 + 512 l^4 r^4 R^2 - 372 l^2 r^6 R^2 - 44 r^8 R^2 + 96 l^6 r R^3 + 1600 l^4 r^3 R^3 - 2080 l^2 r^5 R^3 + 128 r^7 R^3 + 304 l^6 R^4 + 1552 l^4 r^2 R^4 - 6416 l^2 r^4 R^4 + 1808 r^6 R^4 - 832 l^4 r R^5 - 10240 l^2 r^3 R^5 + 7488 r^5 R^5 - 1600 l^4 R^6 - 6080 l^2 r^2 R^6 + 16320 r^4 R^6 + 3072 l^2 r R^7 + 18944 r^3 R^7 + 4096 l^2 R^8 + 8192 r^2 R^8 - 4096 r R^9 - 4096 R^{10}\big)\}$$

$$\{X64,\ \text{ISOGONAL CONJUGATE OF } X(20),\ X93,\ \text{ISOGONAL CONJUGATE OF } X(49),$$
$$-\Big(\big(l^{14} + 5 l^{12} r^2 + 9 l^{10} r^4 + 5 l^8 r^6 - 5 l^6 r^8 - 9 l^4 r^{10} - 5 l^2 r^{12} - r^{14} - 28 l^{12} r R - 72 l^{10} r^3 R - 36 l^8 r^5 R + 16 l^6 r^7 R - 36 l^4 r^9 R - 72 l^2 r^{11} R - 28 r^{13} R - 38 l^{12} R^2 + 256 l^{10} r^2 R^2 - 58 l^8 r^4 R^2 + 416 l^6 r^6 R^2 - 202 l^4 r^8 R^2 - 320 l^2 r^{10} R^2 - 374 r^{12} R^2 + 912 l^{10} r R^3 - 1872 l^8 r^3 R^3 + 3296 l^6 r^5 R^3 - 3168 l^4 r^7 R^3 + 912 l^2 r^9 R^3 - 3152 r^{11} R^3 + 580 l^{10} R^4 - 8828 l^8 r^2 R^4 + 17632 l^6 r^4 R^4 - 24224 l^4 r^6 R^4 + 18140 l^2 r^8 R^4 - 18660 r^{10} R^4 - 11600 l^8 r R^5 + 56736 l^6 r^3 R^5 - 103712 l^4 r^5 R^5 + 105888 l^2 r^7 R^5 - 81744 r^9 R^5 - 4690 l^8 R^6 + 95672 l^6 r^2 R^6 - 277228 l^4 r^4 R^6 + 369720 l^2 r^6 R^6 - 272082 r^8 R^6 + 75040 l^6 r R^7 - 469216 l^4 r^3 R^7 + 869600 l^2 r^5 R^7 - 696096 r^7 R^7 + 21755 l^6 R^8 - 478477 l^4 r^2 R^8 + 1416909 l^2 r^4 R^8 - 1370043 r^6 R^8 - 261060 l^4 r R^9 + 1574648 l^2 r^3 R^9 - 2055620 r^5 R^9 - 57784 l^4 R^{10} + 1128140 l^2 r^2 R^{10} - 2302664 r^4 R^{10} + 462272 l^2 r R^{11} - 1854592 r^3 R^{11} + 81216 l^2 R^{12} - 1005760 r^2 R^{12} - 324864 r R^{13} - 46656 R^{14}\big) \Big/ \big((1 - r - 2R)^2 (1 + r + 2R)^2 \left(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 8 l^2 R^2 + 24 r^2 R^2 + 32 r R^3 + 13 R^4\right)^2\big)\Big)\}$$

$$\{X64,\ \text{ISOGONAL CONJUGATE OF } X(20),\ X94,\ \text{ISOGONAL CONJUGATE OF } X(50),$$
$$-\Big(\big(l^{14} + 5 l^{12} r^2 + 9 l^{10} r^4 + 5 l^8 r^6 - 5 l^6 r^8 - 9 l^4 r^{10} - 5 l^2 r^{12} - r^{14} - 28 l^{12} r R - 72 l^{10} r^3 R - 36 l^8 r^5 R + 16 l^6 r^7 R - 36 l^4 r^9 R - 72 l^2 r^{11} R - 28 r^{13} R - 44 l^{12} R^2 + 244 l^{10} r^2 R^2 - 52 l^8 r^4 R^2 + 440 l^6 r^6 R^2 - 196 l^4 r^8 R^2 - 332 l^2 r^{10} R^2 - 380 r^{12} R^2 + 1056 l^{10} r R^3 - 1824 l^8 r^3 R^3 + 3200 l^6 r^5 R^3 - 3072 l^4 r^7 R^3 + 864 l^2 r^9 R^3 - 3296 r^{11} R^3 + 770 l^{10} R^4 - 9858 l^8 r^2 R^4 + 17468 l^6 r^4 R^4 - 23868 l^4 r^6 R^4 + 18882 l^2 r^8 R^4 - 20290 r^{10} R^4 - 15400 l^8 r R^5 + 63296 l^6 r^3 R^5 - 108080 l^4 r^5 R^5 + 115520 l^2 r^7 R^5 - 93224 r^9 R^5 - 7432 l^8 R^6 + 125064 l^6 r^2 R^6 - 320544 l^4 r^4 R^6 + 428424 l^2 r^6 R^6 - 328264 r^8 R^6 + 118912 l^6 r R^7 - 626624 l^4 r^3 R^7 + 1098432 l^2 r^5 R^7 - 898432 r^7 R^7 + 42549 l^6 R^8 - 761667 l^4 r^2 R^8 + 2014915 l^2 r^4 R^8 - 1921845 r^6 R^8 - 510588 l^4 r R^9 + 2605960 l^2 r^3 R^9 - 3201660 r^5 R^9 - 142164 l^4 R^{10} + 2242116 l^2 r^2 R^{10} - 4087108 r^4 R^{10} + 1137312 l^2 r R^{11} - 3860448 r^3 R^{11} + 254016 l^2 R^{12} - 2528640 r^2 R^{12} - 1016064 r R^{13} - 186624 R^{14}\big) \Big/ \big((1 - r - 2R)^2 (1 + r + 2R)^2 \left(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 12 l^2 R^2 + 28 r^2 R^2 + 48 r R^3 + 27 R^4\right)^2\big)\Big)\}$$

$$\{X64,\ \text{ISOGONAL CONJUGATE OF } X(20),\ X95,\ \text{CEVAPOINT OF CENTROID AND CIRCUMCENTER},$$
$$-\Big(\big(l^{14} + 21 l^{12} r^2 + 57 l^{10} r^4 + 37 l^8 r^6 - 37 l^6 r^8 - 57 l^4 r^{10} - 21 l^2 r^{12} - r^{14} - 28 l^{12} r R - 392 l^{10} r^3 R - 292 l^8 r^5 R + 144 l^6 r^7 R - 292 l^4 r^9 R - 392 l^2 r^{11} R - 28 r^{13} R - 28 l^{12} R^2 - 188 l^{10} r^2 R^2 - 196 l^8 r^4 R^2 + 2584 l^6 r^6 R^2 - 1364 l^4 r^8 R^2 - 3324 l^2 r^{10} R^2 - 364 r^{12} R^2 + 672 l^{10} r R^3 + 5472 l^8 r^3 R^3 + 7296 l^6 r^5 R^3 - 5120 l^4 r^7 R^3 - 16672 l^2 r^9 R^3 - 2912 r^{11} R^3 + 304 l^{10} R^4 - 2192 l^8 r^2 R^4 - 5632 l^6 r^4 R^4 - 8960 l^4 r^6 R^4 - 53040 l^2 r^8 R^4 - 15984 r^{10} R^4 - 6080 l^8 r R^5 - 12416 l^6 r^3 R^5 - 3456 l^4 r^5 R^5 - 103552 l^2 r^7 R^5 - 63424 r^9 R^5 - 1600 l^8 R^6 + 33472 l^6 r^2 R^6 - 15616 l^4 r^4 R^6 - 92992 l^2 r^6 R^6 - 186432 r^8 R^6 + 25600 l^6 r R^7 - 98816 l^4 r^3 R^7 + 78336 l^2 r^5 R^7 - 408576 r^7 R^7 + 4096 l^6 R^8 - 142336 l^4 r^2 R^8 + 339968 l^2 r^4 R^8 - 661504 r^6 R^8 - 49152 l^4 r R^9 + 413696 l^2 r^3 R^9 - 770048 r^5 R^9 - 4096 l^4 R^{10} + 217088 l^2 r^2 R^{10} - 610304 r^4 R^{10} + 32768 l^2 r R^{11} - 294912 r^3 R^{11} - 65536 r^2 R^{12}\big) \Big/ \big((1 - r - 2R)^2 (1 + r + 2R)^2 \left(l^4 + 18 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 4 l^2 R^2 + 20 r^2 R^2 + 16 r R^3\right)^2\big)\Big)\}$$

$$\{X64,\ \text{ISOGONAL CONJUGATE OF } X(20),\ X96,\ \text{ISOGONAL CONJUGATE OF } X(52),$$
$$\big(l^{14} - 11 l^{12} r^2 - 39 l^{10} r^4 - 27 l^8 r^6 + 27 l^6 r^8 + 39 l^4 r^{10} + 11 l^2 r^{12} - r^{14} - 28 l^{12} r R + 248 l^{10} r^3 R + 220 l^8 r^5 R - 112 l^6 r^7 R + 220 l^4 r^9 R + 248 l^2 r^{11} R - 28 r^{13} R - 8 l^{12} R^2 + 308 l^{10} r^2 R^2 + 328 l^8 r^4 R^2 - 2440 l^6 r^6 R^2 + 1208 l^4 r^8 R^2 + 2292 l^2 r^{10} R^2 - 344 r^{12} R^2 + 192 l^{10} r R^3 - 1984 l^8 r^3 R^3 - 9920 l^6 r^5 R^3 + 8000 l^4 r^7 R^3 + 11264 l^2 r^9 R^3 - 2432 r^{11} R^3 + 8 l^{10} R^4 - 1384 l^8 r^2 R^4 - 10864 l^6 r^4 R^4 + 30704 l^4 r^6 R^4 + 31848 l^2 r^8 R^4 - 10888 r^{10} R^4 - 160 l^8 r R^5 + 3968 l^6 r^3 R^5 + 54336 l^4 r^5 R^5 + 52096 l^2 r^7 R^5 - 31904 r^9 R^5 + 64 l^8 R^6 + 4448 l^6 r^2 R^6 + 25408 l^4 r^4 R^6 + 50016 l^2 r^6 R^6 - 60608 r^8 R^6 - 1024 l^6 r R^7 - 29440 l^4 r^3 R^7 + 46848 l^2 r^5 R^7 - 69632 r^7 R^7 - 688 l^6 R^8 - 17072 l^4 r^2 R^8 + 75952 l^2 r^4 R^8 - 36176 r^6 R^8 + 8256 l^4 r R^9 + 68224 l^2 r^3 R^9 + 16448 r^5 R^9 + 4480 l^4 R^{10} - 8384 l^2 r^2 R^{10} + 53888 r^4 R^{10} - 35840 l^2 r R^{11} + 79872 r^3 R^{11} - 11264 l^2 R^{12} + 82944 r^2 R^{12} + 45056 r R^{13} + 9216 R^{14}\big) \Big/$$
$$\big((l - r - 2R)^2 (l + r + 2R)^2 (l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2 - 4 R^4)^2\big)\}$$

$$\{X64,\ \text{ISOGONAL CONJUGATE OF } X(20),\ X97,\ \text{ISOGONAL CONJUGATE OF } X(53),$$
$$\big(R^2 (14 l^{12} - 160 l^{10} r^2 + 578 l^8 r^4 - 800 l^6 r^6 + 578 l^4 r^8 - 160 l^2 r^{10} + 14 r^{12} - 336 l^{10} r R + 2896 l^8 r^3 R - 7520 l^6 r^5 R + 7520 l^4 r^7 R - 2896 l^2 r^9 R + 336 r^{11} R - 317 l^{10} R^2 + 6213 l^8 r^2 R^2 - 28510 l^6 r^4 R^2 + 43550 l^4 r^6 R^2 - 23589 l^2 r^8 R^2 + 3677 r^{10} R^2 + 6340 l^8 r R^3 - 58496 l^6 r^3 R^3 + 144888 l^4 r^5 R^3 - 113792 l^2 r^7 R^3 + 24260 r^9 R^3 + 2972 l^8 R^4 - 70396 l^6 r^2 R^4 + 302368 l^4 r^4 R^4 - 359676 l^2 r^6 R^4 + 107452 r^8 R^4 - 47552 l^6 r R^5 + 407840 l^4 r^3 R^5 - 777888 l^2 r^5 R^5 + 336448 r^7 R^5 - 14768 l^6 R^6 + 350512 l^4 r^2 R^6 - 1166192 l^2 r^4 R^6 + 763184 r^6 R^6 + 177216 l^4 r R^7 - 1198848 l^2 r^3 R^7 + 1262656 r^5 R^7 + 41024 l^4 R^8 - 811584 l^2 r^2 R^8 + 1510720 r^4 R^8 - 328192 l^2 r R^9 + 1273344 r^3 R^9 - 60416 l^2 R^{10} + 716800 r^2 R^{10} + 241664 r R^{11} + 36864 R^{12})\big) \Big/$$
$$\big((l - r - 2R)^2 (l + r + 2R)^2 (l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 7 l^2 R^2 + 23 r^2 R^2 + 28 r R^3 + 12 R^4)^2\big)\}$$

$$\{X64,\ \text{ISOGONAL CONJUGATE OF } X(20),\ X98,\ \text{TarryPoint},$$
$$\big(l^{10} + 3 l^8 r^2 + 2 l^6 r^4 - 2 l^4 r^6 - 3 l^2 r^8 - r^{10} - 20 l^8 r R - 16 l^6 r^3 R + 8 l^4 r^5 R - 16 l^2 r^7 R - 20 r^9 R - 8 l^8 R^2 - 12 l^6 r^2 R^2 + 152 l^4 r^4 R^2 - 76 l^2 r^6 R^2 - 168 r^8 R^2 + 128 l^6 r R^3 + 608 l^4 r^3 R^3 - 480 l^2 r^5 R^3 - 768 r^7 R^3 + 704 l^4 r^2 R^4 - 1920 l^2 r^4 R^4 - 2048 r^6 R^4 - 3840 l^2 r^3 R^5 - 3072 r^5 R^5 + 64 l^4 R^6 - 3200 l^2 r^2 R^6 - 1984 r^4 R^6 - 512 l^2 r R^7 + 512 r^3 R^7 + 1024 r^2 R^8\big) \Big/$$
$$\big((l - r - 2R)^2 (l + r + 2R)^2 (l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2)\big)\}$$

$$\{X64,\ \text{ISOGONAL CONJUGATE OF } X(20),\ X99,\ \text{STEINER POINT},$$
$$-\big(\big(l^{10} + 3 l^8 r^2 + 2 l^6 r^4 - 2 l^4 r^6 - 3 l^2 r^8 - r^{10} - 20 l^8 r R - 16 l^6 r^3 R + 8 l^4 r^5 R - 16 l^2 r^7 R - 20 r^9 R - 20 l^8 R^2 + 172 l^6 r^2 R^2 - 96 l^4 r^4 R^2 + 108 l^2 r^6 R^2 - 180 r^8 R^2 + 320 l^6 r R^3 - 1056 l^4 r^3 R^3 + 1184 l^2 r^5 R^3 - 960 r^7 R^3 + 128 l^6 R^4 - 2368 l^4 r^2 R^4 + 4480 l^2 r^4 R^4 - 3328 r^6 R^4 - 1536 l^4 r R^5 + 8448 l^2 r^3 R^5 - 7680 r^5 R^5 - 256 l^4 R^6 + 7424 l^2 r^2 R^6 - 11520 r^4 R^6 + 2048 l^2 r R^7 - 10240 r^3 R^7 - 4096 r^2 R^8\big) \Big/$$
$$\big((l - r - 2R)^2 (l + r + 2R)^2 (l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2)\big)\big)\}$$

$$\{X64,\ \text{ISOGONAL CONJUGATE OF } X(20),\ X100,\ \text{ANTICOMPLEMENT OF FEUERBACH POINT},$$
$$-\big(\big(R\,(-l^6 - l^4 r^2 + l^2 r^4 + r^6 + 4 l^4 r R + 8 l^2 r^3 R - 4 r^5 R + 20 l^4 R^2 + 12 l^2 r^2 R^2 - 44 r^4 R^2 - 64 l^2 r R^3 - 96 r^3 R^3 - 128 l^2 R^4 + 256 r R^5 + 256 R^6)\big) \Big/ \big((2r - R)\,(-l + r + 2R)^2 (l + r + 2R)^2\big)\big)\}$$

$$\{X65,\ \text{ORTHOCENTER OF THE INTOUCH TRIANGLE},\ X66,\ \text{ISOGONAL CONJUGATE OF } X(22),$$
$$-\big(\big((-l^2 + r^2 + 2 r R)^2 (-l^6 r + 3 l^4 r^3 - 3 l^2 r^5 + r^7 + 13 l^4 r^2 R - 26 l^2 r^4 R + 13 r^6 R + 10 l^4 r R^2 - 76 l^2 r^3 R^2 + 66 r^5 R^2 + l^4 R^3 - 90 l^2 r^2 R^3 + 169 r^4 R^3 - 44 l^2 r R^4 + 236 r^3 R^4 - 4 l^2 R^5 + 176 r^2 R^5 + 64 r R^6)\big) \Big/$$
$$\big(R\,(-l + r + 2R)^2 (l + r + 2R)^2 (-l^2 + r^2 + 4 r R)^2\big)\big)\}$$

$$\{X65,\ \text{ORTHOCENTER OF THE INTOUCH TRIANGLE},\ X67,\ \text{ISOGONAL CONJUGATE OF } X(23),$$
$$-\big(\big((-l^2 + r^2 + r R)^2 (2 l^4 r - 4 l^2 r^3 + 2 r^5 + l^4 R - 22 l^2 r^2 R + 21 r^4 R - 28 l^2 r R^2 + 76 r^3 R^2 - 4 l^2 R^3 + 112 r^2 R^3 + 64 r R^4)\big) \Big/ \big(R\,(-l^2 + r^2 + 4 r R)^2 (-2 l^2 + 2 r^2 + 8 r R + 9 R^2)\big)\big)\}$$

$$\{X65,\ \text{ORTHOCENTER OF THE INTOUCH TRIANGLE},\ X68,$$
$$\text{PRASOLOV POINT},\ \frac{(-l^2 + r^2 + 2 r R + 2 R^2)^2 (l^2 r - r^3 - 5 r^2 R - 6 r R^2 + R^3)}{R\,(-l + r + 2R)^2 (l + r + 2R)^2}\}$$

$$\left\{\text{X65, ORTHOCENTER OF THE INTOUCH TRIANGLE, X69, SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE}, -\frac{(l-r)^2 (l+r)^2 \left(-l^2 r+r^3-l^2 R+8 r^2 R+16 r R^2\right)}{R \left(-l^2+r^2+4 r R\right)^2}\right\}$$

$$\left\{\text{X65, ORTHOCENTER OF THE INTOUCH TRIANGLE, X70, ISOGONAL CONJUGATE OF X(26)}, \left((-l+r+R)^2 (l+r+R)^2 \left(l^6 r-3 l^4 r^3+3 l^2 r^5-r^7-13 l^4 r^2 R+26 l^2 r^4 R-13 r^6 R-12 l^4 r R^2+80 l^2 r^3 R^2-68 r^5 R^2+104 l^2 r^2 R^3-184 r^4 R^3+49 l^2 r R^4-273 r^3 R^4-l^2 R^5-210 r^2 R^5-64 r R^6+4 R^7\right)\right) \Big/ \left(R \left(l^4-2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-6 l^2 R^2+22 r^2 R^2+24 r R^3+7 R^4\right)^2\right)\right\}$$

$$\left\{\text{X65, ORTHOCENTER OF THE INTOUCH TRIANGLE, X71, ISOGONAL CONJUGATE OF X(27)}, -\frac{1}{R \left(l^2+r^2+6 r R+8 R^2\right)^2} (r+2 R)^2 \left(2 l^4 r+4 l^2 r^3+2 r^5-3 l^4 R+18 l^2 r^2 R+21 r^4 R+4 l^2 r R^2+76 r^3 R^2-4 l^2 R^3+112 r^2 R^3+64 r R^4\right)\right\}$$

$$\left\{\text{X65, ORTHOCENTER OF THE INTOUCH TRIANGLE, X72, ISOGONAL CONJUGATE OF X(28)}, -\frac{-2 l^2 r+6 r^3-l^2 R+19 r^2 R+16 r R^2}{R}\right\}$$

$$\left\{\text{X65, ORTHOCENTER OF THE INTOUCH TRIANGLE, X73, CROSSPOINT OF INCENTER AND CIRCUMCENTER}, -\frac{r^2 \left(2 l^4 r+4 l^2 r^3+2 r^5+l^4 R-6 l^2 r^2 R-7 r^4 R-28 l^2 r R^2-20 r^3 R^2-4 l^2 R^3+32 r^2 R^3+64 r R^4\right)}{R \left(-l^2-r^2+2 r R+4 R^2\right)^2}\right\}$$

$$\left\{\text{X65, ORTHOCENTER OF THE INTOUCH TRIANGLE, X74, ISOGONAL CONJUGATE OF EULER INFINITY POINT}, \frac{(2 r+3 R)^2 \left(l^2 r-r^3-l^2 R-2 r^2 R+4 R^3\right)}{R \left(-2 l^2+2 r^2+8 r R+9 R^2\right)}\right\}$$

$$\left\{\text{X65, ORTHOCENTER OF THE INTOUCH TRIANGLE, X75, ISOTOMIC CONJUGATE OF INCENTER}, -\frac{\left(l^2+r^2\right)^2 \left(-l^2 r+r^3-l^2 R+8 r^2 R+16 r R^2\right)}{R \left(l^2+r^2+4 r R\right)^2}\right\}$$

$$\left\{\text{X65, ORTHOCENTER OF THE INTOUCH TRIANGLE, X76, 3rd BROCARD POINT}, -\frac{1}{R \left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)^2} \left(-l^{10} r-3 l^8 r^3-2 l^6 r^5+2 l^4 r^7+3 l^2 r^9+r^{11}-l^{10} R+20 l^8 r^2 R+18 l^6 r^4 R-12 l^4 r^6 R+7 l^2 r^8 R+16 r^{10} R+24 l^8 r R^2-136 l^6 r^3 R^2+136 l^4 r^5 R^2-120 l^2 r^7 R^2+96 r^9 R^2-144 l^6 r^2 R^3+352 l^4 r^4 R^3-528 l^2 r^6 R^3+256 r^8 R^3+256 l^4 r^3 R^4-512 l^2 r^5 R^4+256 r^7 R^4\right)\right\}$$

$$\left\{\text{X65, ORTHOCENTER OF THE INTOUCH TRIANGLE, X77, ISOGONAL CONJUGATE OF X(33)}, -\frac{r^2 \left(2 l^4 r-3 l^2 r^2 R-13 l^2 r R^2+r^3 R^2-l^2 R^3+8 r^2 R^3+16 r R^4\right)}{R \left(-l^2+r R+4 R^2\right)^2}\right\}$$

$$\left\{\text{X65, ORTHOCENTER OF THE INTOUCH TRIANGLE, X78, ISOGONAL CONJUGATE OF X(34)}, -\frac{2 r^5+l^2 r^2 R-4 r^4 R-l^2 r R^2-11 r^3 R^2-l^2 R^3+8 r^2 R^3+16 r R^4}{(r-R)^2 R}\right\}$$

$$\left\{\text{X65, ORTHOCENTER OF THE INTOUCH TRIANGLE, X79, ISOGONAL CONJUGATE OF X(35)}, \frac{r^2 (-2 r+R) \left(-2 l^2+2 r^2+8 r R+9 R^2\right)}{R (2 r+3 R)^2}\right\}$$

$$\left\{X65,\ \text{ORTHOCENTER OF THE INTOUCH TRIANGLE},\ X80,\ \text{REFLECTION OF INCENTER IN FEUERBACH POINT},\ -\frac{r^2\left(-2\,l^2+2\,r^2+8\,r\,R+9\,R^2\right)}{(2\,r-R)\,R}\right\}$$

$$\left\{X65,\ \text{ORTHOCENTER OF THE INTOUCH TRIANGLE},\ X81,\ \text{CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},\ -\frac{r^2\left(2\,l^4\,r-4\,l^2\,r^3+2\,r^5-10\,l^2\,r^2\,R+10\,r^4\,R-11\,l^2\,r\,R^2+23\,r^3\,R^2-l^2\,R^3+28\,r^2\,R^3+16\,r\,R^4\right)}{R\left(-l^2+r^2+r\,R\right)^2}\right\}$$

$$\left\{X65,\ \text{ORTHOCENTER OF THE INTOUCH TRIANGLE},\ X82,\ \text{ISOGONAL CONJUGATE OF X(38)},\ -\left(\left(r^2\left(-l^2+3\,r^2+8\,r\,R\right)^2\left(2\,l^4\,r-4\,l^2\,r^3+2\,r^5-18\,l^2\,r^2\,R+18\,r^4\,R-9\,l^2\,r\,R^2+49\,r^3\,R^2-l^2\,R^3+40\,r^2\,R^3+16\,r\,R^4\right)\right)\Big/\left(R\left(l^4-4\,l^2\,r^2+3\,r^4-9\,l^2\,r\,R+19\,r^3\,R+28\,r^2\,R^2\right)^2\right)\right)\right\}$$

$$\left\{X65,\ \text{ORTHOCENTER OF THE INTOUCH TRIANGLE},\ X83,\ \text{CEVAPOINT OF CENTROID AND SYMMEDIAN POINT},\ -\frac{1}{R\left(5\,l^4-6\,l^2\,r^2+5\,r^4-40\,l^2\,r\,R+40\,r^3\,R+80\,r^2\,R^2\right)^2}\left(-5\,l^{10}\,r+41\,l^8\,r^3-122\,l^6\,r^5+170\,l^4\,r^7-129\,l^2\,r^9+45\,r^{11}-l^{10}\,R+148\,l^8\,r^2\,R-910\,l^6\,r^4\,R+2004\,l^4\,r^6\,R-2009\,l^2\,r^8\,R+816\,r^{10}\,R+40\,l^8\,r\,R^2-1720\,l^6\,r^3\,R^2+7736\,l^4\,r^5\,R^2-11\,464\,l^2\,r^7\,R^2+5920\,r^9\,R^2-592\,l^6\,r^2\,R^3+10\,208\,l^4\,r^4\,R^3-29\,136\,l^2\,r^6\,R^3+21\,760\,r^8\,R^3+4096\,l^4\,r^3\,R^4-32\,000\,l^2\,r^5\,R^4+42\,240\,r^7\,R^4-13\,312\,l^2\,r^4\,R^5+40\,960\,r^6\,R^5+16\,384\,r^5\,R^6\right)\right\}$$

$$\left\{X65,\ \text{ORTHOCENTER OF THE INTOUCH TRIANGLE},\ X84,\ \text{ISOGONAL CONJUGATE OF X(40)},\ -\frac{2\,r^5-2\,l^2\,r^2\,R+5\,r^4\,R-4\,l^2\,r\,R^2+12\,r^3\,R^2+4\,l^2\,R^3+16\,r^2\,R^3-16\,R^5}{r^2\,R}\right\}$$

$$\left\{X65,\ \text{ORTHOCENTER OF THE INTOUCH TRIANGLE},\ X85,\ \text{ISOTOMIC CONJUGATE OF X(9)},\ -\frac{\left(l^2+r^2+4\,r\,R\right)^2\left(-l^2\,r+r^3-l^2\,R+8\,r^2\,R+16\,r\,R^2\right)}{R\left(l^2+r^2+8\,r\,R+16\,R^2\right)^2}\right\}$$

$$\left\{X65,\ \text{ORTHOCENTER OF THE INTOUCH TRIANGLE},\ X86,\ \text{CEVAPOINT OF INCENTER AND CENTROID},\ -\frac{-5\,l^6\,r+39\,l^4\,r^3+13\,l^2\,r^5+r^7-l^6\,R+38\,l^4\,r^2\,R+63\,l^2\,r^4\,R+8\,r^6\,R+16\,l^4\,r\,R^2+32\,l^2\,r^3\,R^2+16\,r^5\,R^2}{R\left(5\,l^2+r^2+4\,r\,R\right)^2}\right\}$$

$$\left\{X65,\ \text{ORTHOCENTER OF THE INTOUCH TRIANGLE},\ X87,\ \text{X(2)-CROSS CONJUGATE OF X(1)},\ -\frac{1}{R\left(l^4+2\,l^2\,r^2+r^4-20\,l^2\,r\,R+12\,r^3\,R+32\,r^2\,R^2\right)^2}r^2\left(2\,l^8\,r+8\,l^6\,r^3+12\,l^4\,r^5+8\,l^2\,r^7+2\,r^9+3\,l^8\,R-68\,l^6\,r^2\,R-94\,l^4\,r^4\,R+28\,l^2\,r^6\,R+51\,r^8\,R-112\,l^6\,r\,R^2+784\,l^4\,r^3\,R^2-656\,l^2\,r^5\,R^2+496\,r^7\,R^2-16\,l^6\,R^3+1280\,l^4\,r^2\,R^3-3536\,l^2\,r^4\,R^3+2336\,r^6\,R^3+384\,l^4\,r\,R^4-5248\,l^2\,r^3\,R^4+5632\,r^5\,R^4-2304\,l^2\,r^2\,R^5+6912\,r^4\,R^5+4096\,r^3\,R^6\right)\right\}$$

$$\left\{X65,\ \text{ORTHOCENTER OF THE INTOUCH TRIANGLE},\ X88,\ \text{ISOGONAL CONJUGATE OF X(44)},\ -\frac{1}{R\left(-l^2-3\,r^2+15\,r\,R\right)^2}r^2\left(2\,l^4\,r+12\,l^2\,r^3+18\,r^5+2\,l^4\,R-30\,l^2\,r^2\,R-108\,r^4\,R-51\,l^2\,r\,R^2+63\,r^3\,R^2-9\,l^2\,R^3+252\,r^2\,R^3+144\,r\,R^4\right)\right\}$$

$$\left\{X65,\ \text{ORTHOCENTER OF THE INTOUCH TRIANGLE},\ X89,\ \text{ISOGONAL CONJUGATE OF X(45)},\ -\frac{1}{R\left(2\,l^2-6\,r^2+3\,r\,R\right)^2}r^2\left(8\,l^4\,r-48\,l^2\,r^3+72\,r^5+2\,l^4\,R-60\,l^2\,r^2\,R+162\,r^4\,R-75\,l^2\,r\,R^2+279\,r^3\,R^2-9\,l^2\,R^3+252\,r^2\,R^3+144\,r\,R^4\right)\right\}$$

$$\left\{X65,\ \text{ORTHOCENTER OF THE INTOUCH TRIANGLE},\ X90,\ X(3)\text{-CROSS CONJUGATE OF } X(1),\ \frac{r^2\left(-2r^5+2l^2r^2R-13r^4R+8l^2rR^2-32r^3R^2-2l^2R^3-40r^2R^3-22rR^4+9R^5\right)}{R\left(-r^2-2rR+R^2\right)^2}\right\}$$

$$\left\{X65,\ \text{ORTHOCENTER OF THE INTOUCH TRIANGLE},\ X91,\ \text{ISOGONAL CONJUGATE OF } X(47),\ \frac{r^2\left(-l^2-r^2+2R^2\right)^2\left(l^2r-r^3-5r^2R-6rR^2+R^3\right)}{R\left(l^2r+r^3-l^2R+3r^2R+2rR^2+2R^3\right)^2}\right\}$$

$$\left\{X65,\ \text{ORTHOCENTER OF THE INTOUCH TRIANGLE},\ X92,\ \text{CEVAPOINT OF INCENTER AND CLAWSON POINT},\ -\frac{1}{R\left(-l^2-r^2+4R^2\right)^2}\left(-l^6r-l^4r^3+l^2r^5+r^7-l^6R+10l^4r^2R+7l^2r^4R-4r^6R+32l^4rR^2-32l^2r^3R^2-32r^5R^2+8l^4R^3-168l^2r^2R^3-176l^2rR^4+240r^3R^4-16l^2R^5+448r^2R^5+256rR^6\right)\right\}$$

$$\left\{X65,\ \text{ORTHOCENTER OF THE INTOUCH TRIANGLE},\ X93,\ \text{ISOGONAL CONJUGATE OF } X(49),\ \left(l^{10}r+3l^8r^3+2l^6r^5-2l^4r^7-3l^2r^9-r^{11}+l^{10}R-20l^8r^2R-18l^6r^4R+12l^4r^6R-7l^2r^8R-16r^{10}R-38l^8rR^2+140l^6r^3R^2-104l^4r^5R^2+116l^2r^7R^2-114r^9R^2-10l^8R^3+376l^6r^2R^3-660l^4r^4R^3+776l^2r^6R^3-482r^8R^3+282l^6rR^4-1622l^4r^3R^4+2246l^2r^5R^4-1354r^7R^4+32l^6R^5-1746l^4r^2R^5+3812l^2r^4R^5-2666r^6R^5-766l^4rR^6+4152l^2r^3R^6-3770r^5R^6-34l^4R^7+2684l^2r^2R^7-3850r^4R^7+809l^2rR^8-2777r^3R^8+7l^2R^9-1282r^2R^9-288rR^{10}+4R^{11}\right)\Big/\left(R\left(l^4+2l^2r^2+r^4-8l^2rR+8r^3R-8l^2R^2+24r^2R^2+32rR^3+13R^4\right)^2\right)\right\}$$

$$\left\{X65,\ \text{ORTHOCENTER OF THE INTOUCH TRIANGLE},\ X94,\ \text{ISOGONAL CONJUGATE OF } X(50),\ -\left(\left(-l^{10}r-3l^8r^3-2l^6r^5+2l^4r^7+3l^2r^9+r^{11}-l^{10}R+20l^8r^2R+18l^6r^4R-12l^4r^6R+7l^2r^8R+16r^{10}R+42l^8rR^2-148l^6r^3R^2+88l^4r^5R^2-108l^2r^7R^2+126r^9R^2+12l^8R^3-468l^6r^2R^3+820l^4r^4R^3-876l^2r^6R^3+640r^8R^3-372l^6rR^4+2392l^4r^3R^4-3284l^2r^5R^4+2272r^7R^4-54l^6R^5+2904l^4r^2R^5-7206l^2r^4R^5+5772r^6R^5+1350l^4rR^6-9528l^2r^3R^6+10482r^5R^6+108l^4R^7-6948l^2r^2R^7+13320r^4R^7-2187l^2rR^8+11295r^3R^8-81l^2R^9+5724r^2R^9+1296rR^{10}\right)\Big/\left(R\left(l^4+2l^2r^2+r^4-8l^2rR+8r^3R-12l^2R^2+28r^2R^2+48rR^3+27R^4\right)^2\right)\right)\right\}$$

$$\left\{X65,\ \text{ORTHOCENTER OF THE INTOUCH TRIANGLE},\ X95,\ \text{CEVAPOINT OF CENTROID AND CIRCUMCENTER},\ -\left(\left(-l^{10}r-19l^8r^3+14l^6r^5+594l^4r^7+51l^2r^9+r^{11}-l^{10}R+4l^8r^2R+290l^6r^4R+452l^4r^6R+439l^2r^8R+16r^{10}R+32l^8rR^2+184l^6r^3R^2-1032l^4r^5R^2+1224l^2r^7R^2+104r^9R^2+8l^8R^3-200l^6r^2R^3-1288l^4r^4R^3+1064l^2r^6R^3+352r^8R^3-176l^6rR^4+112l^4r^3R^4-592l^2r^5R^4+656r^7R^4-16l^6R^5+672l^4r^2R^5-1296l^2r^4R^5+640r^6R^5+256l^4rR^6-512l^2r^3R^6+256r^5R^6\right)\Big/\left(R\left(l^4+18l^2r^2+r^4-8l^2rR+8r^3R-4l^2R^2+20r^2R^2+16rR^3\right)^2\right)\right)\right\}$$

$$\left\{X65,\ \text{ORTHOCENTER OF THE INTOUCH TRIANGLE},\ X96,\ \text{ISOGONAL CONJUGATE OF } X(52),\ \frac{1}{R\left(-l^4+14l^2r^2-r^4+8l^2rR-8r^3R-16r^2R^2+4R^4\right)^2}\left(-l^{10}r+9l^8r^3+94l^6r^5-358l^4r^7+67l^2r^9-3r^{11}-l^{10}R+30l^8r^2R-22l^6r^4R-1088l^4r^6R+703l^2r^8R-54r^{10}R+28l^8rR^2-352l^6r^3R^2-792l^4r^5R^2+2528l^2r^7R^2-388r^9R^2+12l^8R^3-392l^6r^2R^3+1248l^4r^4R^3+3336l^2r^6R^3-1388r^8R^3-208l^6rR^4+2512l^4r^3R^4-432l^2r^5R^4-2384r^7R^4-56l^6R^5+1744l^4r^2R^5-5784l^2r^4R^5-800r^6R^5+656l^4rR^6-6304l^2r^3R^6+3856r^5R^6+128l^4R^7-3232l^2r^2R^7+6880r^4R^7-944l^2rR^8+5232r^3R^8-144l^2R^9+2144r^2R^9+512rR^{10}+64R^{11}\right)\right\}$$

$$\left\{X65,\ \text{ORTHOCENTER OF THE INTOUCH TRIANGLE},\ X97,\ \text{ISOGONAL CONJUGATE OF } X(53),\ -\left(\left(2l^8r^3-24l^6r^5+76l^4r^7-24l^2r^9+2r^{11}+l^8r^2R-56l^6r^4R+338l^4r^6R-272l^2r^8R+37r^{10}R+l^8rR^2-70l^6r^3R^2+752l^4r^5R^2-1306l^2r^7R^2+303r^9R^2-44l^6r^2R^3+1028l^4r^4R^3-3500l^2r^6R^3+1444r^8R^3-15l^6rR^4+869l^4r^3R^4-5789l^2r^5R^4+4423r^7R^4-l^6R^5+406l^4r^2R^5-6105l^2r^4R^5+9060r^6R^5+96l^4rR^6-4008l^2r^3R^6+12488r^5R^6+8l^4R^7-1496l^2r^2R^7+11328r^4R^7-272l^2rR^8+6384r^3R^8-16l^2R^9+1984r^2R^9+256rR^{10}\right)\Big/\left(R\left(l^4-6l^2r^2+r^4-8l^2rR+8r^3R-7l^2R^2+23r^2R^2+28rR^3+12R^4\right)^2\right)\right)\right\}$$

$$\{X65,\ \text{ORTHOCENTER OF THE INTOUCH TRIANGLE},\ X98,\ \text{TarryPoint},\ \left(-l^6 r-5 l^4 r^3+25 l^2 r^5-3 r^7-l^6 R+8 l^4 r^2 R+59 l^2 r^4 R-30 r^6 R+16 l^4 r R^2+16 l^2 r^3 R^2-96 r^5 R^2+4 l^4 R^3-56 l^2 r^2 R^3-92 r^4 R^3-32 l^2 r R^4+32 r^3 R^4+64 r^2 R^5\right)/\left(R\left(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)\right)\}$$

$$\{X65,\ \text{ORTHOCENTER OF THE INTOUCH TRIANGLE},\ X99,\ \text{STEINER POINT},\ -\frac{-l^6 r-l^4 r^3-31 l^2 r^5+r^7-l^6 R+14 l^4 r^2 R-57 l^2 r^4 R+8 r^6 R+16 l^4 r R^2-32 l^2 r^3 R^2+16 r^5 R^2}{R\left(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)}\}$$

$$\{X65,\ \text{ORTHOCENTER OF THE INTOUCH TRIANGLE},\ X100,\ \text{ANTICOMPLEMENT OF FEUERBACH POINT},\ -\frac{4 r^4+l^2 r R+5 r^3 R+l^2 R^2-12 r^2 R^2-16 r R^3}{(2 r-R) R}\}$$

$$\{X66,\ \text{ISOGONAL CONJUGATE OF } X(22),\ X67,\ \text{ISOGONAL CONJUGATE OF } X(23),\ -\left(\left(R^2\left(8 l^8 r^2-24 l^6 r^4+24 l^4 r^6-8 l^2 r^8-96 l^6 r^3 R+192 l^4 r^5 R-96 l^2 r^7 R-l^8 R^2-84 l^6 r^2 R^2+554 l^4 r^4 R^2-468 l^2 r^6 R^2-r^8 R^2+16 l^6 r R^3+656 l^4 r^3 R^3-1168 l^2 r^5 R^3-16 r^7 R^3+4 l^6 R^4+228 l^4 r^2 R^4-1540 l^2 r^4 R^4-100 r^6 R^4-48 l^4 r R^5-992 l^2 r^3 R^5-304 r^5 R^5-240 l^2 r^2 R^6-448 r^4 R^6-256 r^3 R^7\right)\right)/\left((1-r-2 R)^2 (1+r+2 R)^2\left(l^2-r^2-4 r R\right)^2\left(2 l^2-2 r^2-8 r R-9 R^2\right)\right)\right)\}$$

$$\{X66,\ \text{ISOGONAL CONJUGATE OF } X(22),\ X68,\ \text{PRASOLOV POINT},\ \frac{4 R^6\left(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)}{(1-r-2 R)^2 (1+r+2 R)^2\left(l^2-r^2-4 r R\right)^2}\}$$

$$\{X66,\ \text{ISOGONAL CONJUGATE OF } X(22),\ X69,\ \text{SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},\ -\left(\left(R^2\left(l^8+16 l^6 r^2-34 l^4 r^4+16 l^2 r^6+r^8-16 l^6 r R-112 l^4 r^3 R+112 l^2 r^5 R+16 r^7 R-4 l^6 R^2-84 l^4 r^2 R^2+308 l^2 r^4 R^2+100 r^6 R^2+48 l^4 r R^3+416 l^2 r^3 R^3+304 r^5 R^3+240 l^2 r^2 R^4+448 r^4 R^4+256 r^3 R^5\right)\right)/\left((1-r-2 R)^2 (1+r+2 R)^2\left(l^2-r^2-4 r R\right)^2\right)\right)\}$$

$$\{X66,\ \text{ISOGONAL CONJUGATE OF } X(22),\ X70,\ \text{ISOGONAL CONJUGATE OF } X(26),\ \left(R^6\left(l^{12}-18 l^{10} r^2+63 l^8 r^4-92 l^6 r^6+63 l^4 r^8-18 l^2 r^{10}+r^{12}-24 l^{10} r R+312 l^8 r^3 R-816 l^6 r^5 R+816 l^4 r^7 R-312 l^2 r^9 R+24 r^{11} R-12 l^{10} R^2+476 l^8 r^2 R^2-2760 l^6 r^4 R^2+4392 l^4 r^6 R^2-2348 l^2 r^8 R^2+252 r^{10} R^2+240 l^8 r R^3-4352 l^6 r^3 R^3+12576 l^4 r^5 R^3-9984 l^2 r^7 R^3+1520 r^9 R^3+51 l^8 R^4-3104 l^6 r^2 R^4+20314 l^4 r^4 R^4-26144 l^2 r^6 R^4+5811 r^8 R^4-816 l^6 r R^5+17968 l^4 r^3 R^5-43056 l^2 r^5 R^5+14640 r^7 R^5-92 l^6 R^6+7636 l^4 r^2 R^6-43572 l^2 r^4 R^6+24444 r^6 R^6+1104 l^4 r R^7-25120 l^2 r^3 R^7+26448 r^5 R^7+64 l^4 R^8-6896 l^2 r^2 R^8+17536 r^4 R^8-512 l^2 r R^9+6400 r^3 R^9+1024 r^2 R^{10}\right)\right)/\left((1-r-2 R)^2 (1+r+2 R)^2\left(l^2-r^2-4 r R\right)^2\left(l^4-2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-6 l^2 R^2+22 r^2 R^2+24 r R^3+7 R^4\right)^2\right)\}$$

$$\{X66,\ \text{ISOGONAL CONJUGATE OF } X(22),\ X71,\ \text{ISOGONAL CONJUGATE OF } X(27),\ -\left(\left(\left(l^4-r^4-8 r^3 R-20 r^2 R^2-16 r R^3\right)^2\left(2 l^6-8 l^4 r^2+6 l^2 r^4-24 l^4 r R+40 l^2 r^3 R-7 l^4 R^2+82 l^2 r^2 R^2+r^4 R^2+44 l^2 r R^3+12 r^3 R^3-4 l^2 R^4+48 r^2 R^4+64 r R^5\right)\right)/\left((1-r-2 R)^2 (1+r+2 R)^2\left(l^2-r^2-4 r R\right)^2\left(l^2+r^2+6 r R+8 R^2\right)^2\right)\right)\}$$

$$\{X66,\ \text{ISOGONAL CONJUGATE OF } X(22),\ X72,\ \text{ISOGONAL CONJUGATE OF } X(28),\ -\left(\left(\left(-l^2 r+r^3-l^2 R+5 r^2 R+6 r R^2\right)^2\left(2 l^4 r-4 l^2 r^3+2 r^5+l^4 R-22 l^2 r^2 R+21 r^4 R-28 l^2 r R^2+76 r^3 R^2-4 l^2 R^3+112 r^2 R^3+64 r R^4\right)\right)/\left(R(-1+r+2 R)^2 (1+r+2 R)^2\left(-l^2+r^2+4 r R\right)^2\right)\right)\}$$

$$\{X66,\ \text{ISOGONAL CONJUGATE OF } X(22),\ X73,\ \text{CROSSPOINT OF INCENTER AND CIRCUMCENTER},\ \left(\left(l^4-r^4-4 l^2 r R-4 r^3 R-4 l^2 R^2+8 r R^3\right)^2\left(6 l^4 r^2-8 l^2 r^4+2 r^6-4 l^4 r R-32 l^2 r^3 R+20 r^5 R-l^4 R^2-10 l^2 r^2 R^2+63 r^4 R^2+36 l^2 r R^3+52 r^3 R^3+4 l^2 R^4-48 r^2 R^4-64 r R^5\right)\right)/\left((1-r-2 R)^2 (1+r+2 R)^2\left(l^2-r^2-4 r R\right)^2\left(l^2+r^2-2 r R-4 R^2\right)^2\right)\}$$

$$\{X66,\ \text{ISOGONAL CONJUGATE OF } X(22),\ X74,\ \text{ISOGONAL CONJUGATE OF EULER INFINITY POINT},$$
$$-\Big(\Big(\big(l^2-r^2-4\,r\,R-3\,R^2\big)^2\,\big(3\,l^8-16\,l^6\,r^2+26\,l^4\,r^4-16\,l^2\,r^6+3\,r^8-48\,l^6\,r\,R+176\,l^4\,r^3\,R-176\,l^2\,r^5\,R+48\,r^7\,R-28\,l^6\,R^2+404\,l^4\,r^2\,R^2-756\,l^2\,r^4\,R^2+316\,r^6\,R^2+336\,l^4\,r\,R^3-1568\,l^2\,r^3\,R^3+1104\,r^5\,R^3+64\,l^4\,R^4-1520\,l^2\,r^2\,R^4+2176\,r^4\,R^4-512\,l^2\,r\,R^5+2304\,r^3\,R^5+1024\,r^2\,R^6\big)\Big)\Big/\Big((l-r-2\,R)^2\,(l+r+2\,R)^2\,\big(l^2-r^2-4\,r\,R\big)^2\,\big(2\,l^2-2\,r^2-8\,r\,R-9\,R^2\big)\Big)\Big)\Big\}$$

$$\Big\{X66,\ \text{ISOGONAL CONJUGATE OF } X(22),\ X75,\ \text{ISOTOMIC CONJUGATE OF INCENTER},$$
$$-\frac{1}{(l-r-2\,R)^2\,(l+r+2\,R)^2\,\big(l^2-r^2-4\,r\,R\big)^2\,\big(l^2+r^2+4\,r\,R\big)^2}\,R\,\Big(8\,l^{12}\,r-72\,l^{10}\,r^3+176\,l^8\,r^5-176\,l^6\,r^7+72\,l^4\,r^9-8\,l^2\,r^{11}+l^{12}\,R-190\,l^{10}\,r^2\,R+1119\,l^8\,r^4\,R-1828\,l^6\,r^6\,R+1055\,l^4\,r^8\,R-158\,l^2\,r^{10}\,R+r^{12}\,R-72\,l^{10}\,r\,R^2+2136\,l^8\,r^3\,R^2-7024\,l^6\,r^5\,R^2+6288\,l^4\,r^7\,R^2-1352\,l^2\,r^9\,R^2+24\,r^{11}\,R^2-4\,l^{10}\,R^3+1204\,l^8\,r^2\,R^3-12\,088\,l^6\,r^4\,R^3+19\,416\,l^4\,r^6\,R^3-6468\,l^2\,r^8\,R^3+244\,r^{10}\,R^3+144\,l^8\,r\,R^4-8640\,l^6\,r^3\,R^4+32\,288\,l^4\,r^5\,R^4-18\,496\,l^2\,r^7\,R^4+1360\,r^9\,R^4-1744\,l^6\,r^2\,R^5+26\,592\,l^4\,r^4\,R^5-31\,184\,l^2\,r^6\,R^5+4480\,r^8\,R^5+8064\,l^4\,r^3\,R^6-28\,288\,l^2\,r^5\,R^6+8704\,r^7\,R^6-10\,496\,l^2\,r^4\,R^7+9216\,r^6\,R^7+4096\,r^5\,R^8\Big)\Big\}$$

$$\{X66,\ \text{ISOGONAL CONJUGATE OF } X(22),\ X76,\ \text{3rd BROCARD POINT},$$
$$-\Big(\Big(R^2\,\big(l^{16}+20\,l^{14}\,r^2-284\,l^{12}\,r^4+1004\,l^{10}\,r^6-1482\,l^8\,r^8+1004\,l^6\,r^{10}-284\,l^4\,r^{12}+20\,l^2\,r^{14}+r^{16}-32\,l^{14}\,r\,R-448\,l^{12}\,r^3\,R+4992\,l^{10}\,r^5\,R-13\,024\,l^8\,r^7\,R+13\,024\,l^6\,r^9\,R-4992\,l^4\,r^{11}\,R+448\,l^2\,r^{13}\,R+32\,r^{15}\,R-4\,l^{14}\,R^2+252\,l^{12}\,r^2\,R^2+6156\,l^{10}\,r^4\,R^2-39\,860\,l^8\,r^6\,R^2+65\,908\,l^6\,r^8\,R^2-36\,108\,l^4\,r^{10}\,R^2+4228\,l^2\,r^{12}\,R^2+452\,r^{14}\,R^2+112\,l^{12}\,r\,R^3+224\,l^{10}\,r^3\,R^3-47\,216\,l^8\,r^5\,R^3+161\,344\,l^6\,r^7\,R^3-137\,840\,l^4\,r^9\,R^3+21\,728\,l^2\,r^{11}\,R^3+3696\,r^{13}\,R^3-912\,l^{10}\,r^2\,R^4-15\,104\,l^8\,r^4\,R^4+189\,856\,l^6\,r^6\,R^4-294\,592\,l^4\,r^8\,R^4+65\,392\,l^2\,r^{10}\,R^4+19\,264\,r^{12}\,R^4+2048\,l^8\,r^3\,R^5+88\,320\,l^6\,r^5\,R^5-340\,736\,l^4\,r^7\,R^5+114\,432\,l^2\,r^9\,R^5+66\,304\,r^{11}\,R^5+5632\,l^6\,r^4\,R^6-182\,272\,l^4\,r^6\,R^6+105\,984\,l^2\,r^8\,R^6+150\,528\,r^{10}\,R^6-24\,576\,l^4\,r^5\,R^7+36\,864\,l^2\,r^7\,R^7+217\,088\,r^9\,R^7-4096\,l^2\,r^6\,R^8+180\,224\,r^8\,R^8+65\,536\,r^7\,R^9\big)\Big)\Big/\Big((l-r-2\,R)^2\,(l+r+2\,R)^2\,\big(l^2-r^2-4\,r\,R\big)^2\,\big(l^4+2\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R+16\,r^2\,R^2\big)^2\Big)\Big)\Big\}$$

$$\Big\{X66,\ \text{ISOGONAL CONJUGATE OF } X(22),\ X77,\ \text{ISOGONAL CONJUGATE OF } X(33),$$
$$\frac{1}{(l-r-2\,R)^2\,(l+r+2\,R)^2\,\big(l^2-r^2-4\,r\,R\big)^2\,\big(l^2-r\,R-4\,R^2\big)^2}\,\Big(6\,l^{12}\,r^2-20\,l^{10}\,r^4+24\,l^8\,r^6-12\,l^6\,r^8+2\,l^4\,r^{10}-5\,l^{12}\,r\,R-69\,l^{10}\,r^3\,R+190\,l^8\,r^5\,R-154\,l^6\,r^7\,R+39\,l^4\,r^9\,R-l^2\,r^{11}\,R-l^{12}\,R^2+2\,l^{10}\,r^2\,R^2+474\,l^8\,r^4\,R^2-780\,l^6\,r^6\,R^2+327\,l^4\,r^8\,R^2-22\,l^2\,r^{10}\,R^2+86\,l^{10}\,r\,R^3+220\,l^8\,r^3\,R^3-1824\,l^6\,r^5\,R^3+1460\,l^4\,r^7\,R^3-198\,l^2\,r^9\,R^3+12\,l^{10}\,R^4-629\,l^8\,r^2\,R^4-1300\,l^6\,r^4\,R^4+3414\,l^4\,r^6\,R^4-920\,l^2\,r^8\,R^4-r^{10}\,R^4-528\,l^8\,r\,R^5+2072\,l^6\,r^3\,R^5+2824\,l^4\,r^5\,R^5-2168\,l^2\,r^7\,R^5-24\,r^9\,R^5-48\,l^8\,R^6+3636\,l^6\,r^2\,R^6-4076\,l^4\,r^4\,R^6-1300\,l^2\,r^6\,R^6-244\,r^8\,R^6+1376\,l^6\,r\,R^7-10\,608\,l^4\,r^3\,R^7+5824\,l^2\,r^5\,R^7-1360\,r^7\,R^7+64\,l^6\,R^8-7232\,l^4\,r^2\,R^8+15\,056\,l^2\,r^4\,R^8-4480\,r^6\,R^8-1280\,l^4\,r\,R^9+13\,952\,l^2\,r^3\,R^9-8704\,r^5\,R^9+4352\,l^2\,r^2\,R^{10}-9216\,r^4\,R^{10}-4096\,r^3\,R^{11}\Big)\Big\}$$

$$\Big\{X66,\ \text{ISOGONAL CONJUGATE OF } X(22),\ X78,$$
$$\text{ISOGONAL CONJUGATE OF } X(34),\ \frac{1}{(r-R)^2\,(-l+r+2\,R)^2\,(l+r+2\,R)^2\,\big(-l^2+r^2+4\,r\,R\big)^2}\,\Big(6\,l^8\,r^4-20\,l^6\,r^6+24\,l^4\,r^8-12\,l^2\,r^{10}+2\,r^{12}+l^{10}\,r\,R-7\,l^8\,r^3\,R-70\,l^6\,r^5\,R+194\,l^4\,r^7\,R-155\,l^2\,r^9\,R+37\,r^{11}\,R-27\,l^8\,r^2\,R^2+64\,l^6\,r^4\,R^2+422\,l^4\,r^6\,R^2-736\,l^2\,r^8\,R^2+277\,r^{10}\,R^2-10\,l^8\,r\,R^3+324\,l^6\,r^3\,R^3-248\,l^4\,r^5\,R^3-1364\,l^2\,r^7\,R^3+1042\,r^9\,R^3-l^8\,R^4+236\,l^6\,r^2\,R^4-1834\,l^4\,r^4\,R^4+340\,l^2\,r^6\,R^4+1835\,r^8\,R^4+56\,l^6\,r\,R^5-2040\,l^4\,r^3\,R^5+5096\,l^2\,r^5\,R^5+88\,r^7\,R^5+4\,l^6\,R^6-812\,l^4\,r^2\,R^6+7452\,l^2\,r^4\,R^6-5604\,r^6\,R^6-112\,l^4\,r\,R^7+4352\,l^2\,r^3\,R^7-10\,032\,r^5\,R^7+912\,l^2\,r^2\,R^8-7616\,r^4\,R^8-2304\,r^3\,R^9\Big)\Big\}$$

$$\left\{X66,\ \text{ISOGONAL CONJUGATE OF } X(22),\ X79,\ \text{ISOGONAL CONJUGATE OF } X(35),\right.$$

$$-\frac{1}{(-l+r+2R)^2\,(l+r+2R)^2\,(2r+3R)^2\,\left(-l^2+r^2+4rR\right)^2}$$

$$R\left(-12\,l^{10}\,r+40\,l^8\,r^3-48\,l^6\,r^5+24\,l^4\,r^7-4\,l^2\,r^9+190\,l^8\,r^2\,R-460\,l^6\,r^4\,R+352\,l^4\,r^6\,R-\right.$$
$$84\,l^2\,r^8\,R+2\,r^{10}\,R+126\,l^8\,r\,R^2-1428\,l^6\,r^3\,R^2+2008\,l^4\,r^5\,R^2-748\,l^2\,r^7\,R^2+42\,r^9\,R^2+$$
$$9\,l^8\,R^3-1564\,l^6\,r^2\,R^3+5450\,l^4\,r^4\,R^3-3492\,l^2\,r^6\,R^3+365\,r^8\,R^3-528\,l^6\,r\,R^4+7144\,l^4\,r^3\,R^4-$$
$$9088\,l^2\,r^5\,R^4+1704\,r^7\,R^4-36\,l^6\,R^5+3996\,l^4\,r^2\,R^5-13\,068\,l^2\,r^4\,R^5+4628\,r^6\,R^5+$$
$$\left.\left.720\,l^4\,r\,R^6-9408\,l^2\,r^3\,R^6+7344\,r^5\,R^6-2448\,l^2\,r^2\,R^7+6336\,r^4\,R^7+2304\,r^3\,R^8\right)\right\}$$

$$\left\{X66,\ \text{ISOGONAL CONJUGATE OF } X(22),\ X80,\ \text{REFLECTION OF INCENTER IN FEUERBACH POINT},\right.$$

$$-\frac{1}{(2r-R)\,(-l+r+2R)^2\,(l+r+2R)^2\,\left(-l^2+r^2+4rR\right)^2}$$

$$R\left(2\,l^8\,r^2-12\,l^6\,r^4+24\,l^4\,r^6-20\,l^2\,r^8+6\,r^{10}-36\,l^6\,r^3\,R+164\,l^4\,r^5\,R-220\,l^2\,r^7\,R+\right.$$
$$92\,r^9\,R-l^8\,R^2-20\,l^6\,r^2\,R^2+358\,l^4\,r^4\,R^2-908\,l^2\,r^6\,R^2+571\,r^8\,R^2+24\,l^6\,r\,R^3+$$
$$224\,l^4\,r^3\,R^3-1704\,l^2\,r^5\,R^3+1840\,r^7\,R^3+4\,l^6\,R^4-92\,l^4\,r^2\,R^4-1300\,l^2\,r^4\,R^4+$$
$$\left.\left.3244\,r^6\,R^4-80\,l^4\,r\,R^5-32\,l^2\,r^3\,R^5+2896\,r^5\,R^5+272\,l^2\,r^2\,R^6+832\,r^4\,R^6-256\,r^3\,R^7\right)\right\}$$

$$\left\{X66,\ \text{ISOGONAL CONJUGATE OF } X(22),\ X81,\ \text{CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},\right.$$

$$\frac{1}{(l-r-2R)^2\,(l+r+2R)^2\,\left(l^2-r^2-4rR\right)^2\,\left(l^2-r^2-rR\right)^2}$$

$$\left(8\,l^{12}\,r^2-40\,l^{10}\,r^4+80\,l^8\,r^6-80\,l^6\,r^8+40\,l^4\,r^{10}-8\,l^2\,r^{12}-l^{12}\,r\,R-126\,l^{10}\,r^3\,R+513\,l^8\,r^5\,R-772\,l^6\,r^7\,R+\right.$$
$$513\,l^4\,r^9\,R-126\,l^2\,r^{11}\,R-r^{13}\,R-l^{12}\,R^2-60\,l^{10}\,r^2\,R^2+1083\,l^8\,r^4\,R^2-2856\,l^6\,r^6\,R^2+2685\,l^4\,r^8\,R^2-$$
$$828\,l^2\,r^{10}\,R^2-23\,r^{12}\,R^2+26\,l^{10}\,r\,R^3+822\,l^8\,r^3\,R^3-5116\,l^6\,r^5\,R^3+7436\,l^4\,r^7\,R^3-2942\,l^2\,r^9\,R^3-$$
$$226\,r^{11}\,R^3+4\,l^{10}\,R^4+43\,l^8\,r^2\,R^4-4472\,l^6\,r^4\,R^4+11\,786\,l^4\,r^6\,R^4-6124\,l^2\,r^8\,R^4-1237\,r^{10}\,R^4-72\,l^8\,r\,R^5-$$
$$1440\,l^6\,r^3\,R^5+10\,656\,l^4\,r^5\,R^5-7584\,l^2\,r^7\,R^5-4120\,r^9\,R^5+84\,l^6\,r^2\,R^6+4948\,l^4\,r^4\,R^6-5508\,l^2\,r^6\,R^6-$$
$$\left.\left.8548\,r^8\,R^6+752\,l^4\,r^3\,R^7-2368\,l^2\,r^5\,R^7-10\,800\,r^7\,R^7-624\,l^2\,r^4\,R^8-7616\,r^6\,R^8-2304\,r^5\,R^9\right)\right\}$$

$$\left\{X66,\ \text{ISOGONAL CONJUGATE OF } X(22),\ X82,\ \text{ISOGONAL CONJUGATE OF } X(38),\right.$$

$$\left(10\,l^{16}\,r^2-100\,l^{14}\,r^4+412\,l^{12}\,r^6-916\,l^{10}\,r^8+1200\,l^8\,r^{10}-940\,l^6\,r^{12}+420\,l^4\,r^{14}-92\,l^2\,r^{16}+6\,r^{18}-\right.$$
$$l^{16}\,r\,R-308\,l^{14}\,r^3\,R+2672\,l^{12}\,r^5\,R-9236\,l^{10}\,r^7\,R+16\,614\,l^8\,r^9\,R-16\,700\,l^6\,r^{11}\,R+9192\,l^4\,r^{13}\,R-$$
$$2428\,l^2\,r^{15}\,R+195\,r^{17}\,R-l^{16}\,R^2-54\,l^{14}\,r^2\,R^2+4970\,l^{12}\,r^4\,R^2-33\,454\,l^{10}\,r^6\,R^2+90\,872\,l^8\,r^8\,R^2-$$
$$123\,586\,l^6\,r^{10}\,R^2+86\,678\,l^4\,r^{12}\,R^2-28\,250\,l^2\,r^{14}\,R^2+2825\,r^{16}\,R^2+42\,l^{14}\,r\,R^3+1854\,l^{12}\,r^3\,R^3-$$
$$50\,406\,l^{10}\,r^5\,R^3+245\,838\,l^8\,r^7\,R^3-490\,034\,l^6\,r^9\,R^3+458\,666\,l^4\,r^{11}\,R^3-189\,970\,l^2\,r^{13}\,R^3+$$
$$24\,010\,r^{15}\,R^3+4\,l^{14}\,R^4-469\,l^{12}\,r^2\,R^4-25\,102\,l^{10}\,r^4\,R^4+332\,445\,l^8\,r^6\,R^4-1\,110\,672\,l^6\,r^8\,R^4+$$
$$1\,483\,813\,l^4\,r^{10}\,R^4-812\,518\,l^2\,r^{12}\,R^4+132\,499\,r^{14}\,R^4-136\,l^{12}\,r\,R^5+1000\,l^{10}\,r^3\,R^5+$$
$$191\,552\,l^8\,r^5\,R^5-1\,408\,528\,l^6\,r^7\,R^5+2\,988\,440\,l^4\,r^9\,R^5-2\,288\,600\,l^2\,r^{11}\,R^5+495\,792\,r^{13}\,R^5+$$
$$1652\,l^{10}\,r^2\,R^6+18\,796\,l^8\,r^4\,R^6-883\,048\,l^6\,r^6\,R^6+3\,628\,968\,l^4\,r^8\,R^6-4\,238\,476\,l^2\,r^{10}\,R^6+$$
$$1\,273\,196\,r^{12}\,R^6-9520\,l^8\,r^3\,R^7-172\,000\,l^6\,r^5\,R^7+2\,393\,472\,l^4\,r^7\,R^7-4\,971\,552\,l^2\,r^9\,R^7+$$
$$2\,214\,320\,r^{11}\,R^7+25\,680\,l^6\,r^4\,R^8+626\,848\,l^4\,r^6\,R^8-3\,356\,208\,l^2\,r^8\,R^8+2\,494\,080\,r^{10}\,R^8-$$
$$\left.20\,352\,l^4\,r^5\,R^9-1\,011\,584\,l^2\,r^7\,R^9+1\,639\,936\,r^9\,R^9-22\,272\,l^2\,r^6\,R^{10}+474\,112\,r^8\,R^{10}-4096\,r^7\,R^{11}\right)\Big/$$
$$\left.\left.\left((l-r-2R)^2\,(l+r+2R)^2\,\left(l^2-r^2-4rR\right)^2\,\left(l^4-4\,l^2\,r^2+3\,r^4-9\,l^2\,r\,R+19\,r^3\,R+28\,r^2\,R^2\right)^2\right)\right\}$$

$$\{X66,\ \text{ISOGONAL CONJUGATE OF } X(22),\ X83,\ \text{CEVAPOINT OF CENTROID AND SYMMEDIAN POINT},$$
$$-\Big(\big(4 l^{18} - 164 l^{16} r^2 + 976 l^{14} r^4 - 2704 l^{12} r^6 + 4344 l^{10} r^8 - 4344 l^8 r^{10} + 2704 l^6 r^{12} - 976 l^4 r^{14} +$$
$$164 l^2 r^{16} - 4 r^{18} - 144 l^{16} r R + 4736 l^{14} r^3 R - 24256 l^{12} r^5 R + 56704 l^{10} r^7 R - 74080 l^8 r^9 R +$$
$$56704 l^6 r^{11} R - 24256 l^4 r^{13} R + 4736 l^2 r^{15} R - 144 r^{17} R - 7 l^{16} R^2 + 3572 l^{14} r^2 R^2 -$$
$$65980 l^{12} r^4 R^2 + 269324 l^{10} r^6 R^2 - 501114 l^8 r^8 R^2 + 496140 l^6 r^{10} R^2 - 260028 l^4 r^{12} R^2 +$$
$$60404 l^2 r^{14} R^2 - 2311 r^{16} R^2 + 224 l^{14} r R^3 - 52160 l^{12} r^3 R^3 + 555904 l^{10} r^5 R^3 - 1697760 l^8 r^7 R^3 +$$
$$2337760 l^6 r^9 R^3 - 1568640 l^4 r^{11} R^3 + 446400 l^2 r^{13} R^3 - 21728 r^{15} R^3 - 36 l^{14} R^4 -$$
$$6756 l^{12} r^2 R^4 + 455084 l^{10} r^4 R^4 - 2973908 l^8 r^6 R^4 + 6369428 l^6 r^8 R^4 - 5815980 l^4 r^{10} R^4 +$$
$$2105316 l^2 r^{12} R^4 - 132124 r^{14} R^4 + 1008 l^{12} r R^5 + 96480 l^{10} r^3 R^5 - 2460656 l^8 r^5 R^5 +$$
$$9954880 l^6 r^7 R^5 - 13549040 l^4 r^9 R^5 + 6565088 l^2 r^{11} R^5 - 540176 r^{13} R^5 - 8208 l^{10} r^2 R^6 -$$
$$697600 l^8 r^4 R^6 + 8181408 l^6 r^6 R^6 - 19343040 l^4 r^8 R^6 + 13517552 l^2 r^{10} R^6 - 1489600 r^{12} R^6 +$$
$$18432 l^8 r^3 R^7 + 2724096 l^6 r^5 R^7 - 15506176 l^4 r^7 R^7 + 17684224 l^2 r^9 R^7 - 2680064 r^{11} R^7 +$$
$$50688 l^6 r^4 R^8 - 5498880 l^4 r^6 R^8 + 13291008 l^2 r^8 R^8 - 2839552 r^{10} R^8 - 221184 l^4 r^5 R^9 +$$
$$4329472 l^2 r^7 R^9 - 1191936 r^9 R^9 - 36864 l^2 r^6 R^{10} + 573440 r^8 R^{10} + 589824 r^7 R^{11}\big) \Big/$$
$$\big((1 - r - 2R)^2 (1 + r + 2R)^2 (l^2 - r^2 - 4 r R)^2 (5 l^4 - 6 l^2 r^2 + 5 r^4 - 40 l^2 r R + 40 r^3 R + 80 r^2 R^2)^2\big)\Big)\}$$

$$\{X66,\ \text{ISOGONAL CONJUGATE OF } X(22),\ X84,$$
$$\text{ISOGONAL CONJUGATE OF } X(40),\ -\frac{1}{r^2 (-l + r + 2R)^2 (l + r + 2R)^2 (-l^2 + r^2 + 4 r R)^2}$$
$$\big(2 l^{10} r^2 - 12 l^8 r^4 + 24 l^6 r^6 - 20 l^4 r^8 + 6 l^2 r^{10} - 6 l^{10} r R + 80 l^6 r^5 R - 132 l^4 r^7 R +$$
$$54 l^2 r^9 R + 4 r^{11} R + 4 l^{10} R^2 + 77 l^8 r^2 R^2 - 164 l^6 r^4 R^2 - 30 l^4 r^6 R^2 + 32 l^2 r^8 R^2 + 81 r^{10} R^2 -$$
$$16 l^8 r R^3 - 616 l^6 r^3 R^3 + 1424 l^4 r^5 R^3 - 1224 l^2 r^7 R^3 + 688 r^9 R^3 - 48 l^8 R^4 - 100 l^6 r^2 R^4 +$$
$$3180 l^4 r^4 R^4 - 5484 l^2 r^6 R^4 + 3156 r^8 R^4 + 544 l^6 r R^5 + 1104 l^4 r^3 R^5 - 9312 l^2 r^5 R^5 +$$
$$8304 r^7 R^5 + 192 l^6 R^6 - 2624 l^4 r^2 R^6 - 4112 l^2 r^4 R^6 + 11840 r^6 R^6 - 2048 l^4 r R^7 + 6400 l^2 r^3 R^7 +$$
$$5888 r^5 R^7 - 256 l^4 R^8 + 7680 l^2 r^2 R^8 - 6400 r^4 R^8 + 2048 l^2 r R^9 - 10240 r^3 R^9 - 4096 r^2 R^{10}\big)\}$$

$$\{X66,\ \text{ISOGONAL CONJUGATE OF } X(22),\ X85,\ \text{ISOTOMIC CONJUGATE OF } X(9),$$
$$-\Big(\big(R\,(8 l^{12} r - 72 l^{10} r^3 + 176 l^8 r^5 - 176 l^6 r^7 + 72 l^4 r^9 - 8 l^2 r^{11} + 17 l^{12} R - 430 l^{10} r^2 R +$$
$$1791 l^8 r^4 R - 2564 l^6 r^6 R + 1391 l^4 r^8 R - 206 l^2 r^{10} R + r^{12} R - 672 l^{10} r R^2 + 6496 l^8 r^3 R^2 -$$
$$14912 l^6 r^5 R^2 + 11392 l^4 r^7 R^2 - 2336 l^2 r^9 R^2 + 32 r^{11} R^2 - 100 l^{10} R^3 + 9668 l^8 r^2 R^3 -$$
$$43832 l^6 r^4 R^3 + 51448 l^4 r^6 R^3 - 15332 l^2 r^8 R^3 + 452 r^{10} R^3 + 4720 l^8 r R^4 - 67584 l^6 r^3 R^4 +$$
$$139296 l^4 r^5 R^4 - 64256 l^2 r^7 R^4 + 3696 r^9 R^4 + 384 l^8 R^5 - 50960 l^6 r^2 R^5 + 229280 l^4 r^4 R^5 -$$
$$178320 l^2 r^6 R^5 + 19264 r^8 R^5 - 15360 l^6 r R^6 + 220160 l^4 r^3 R^6 - 326912 l^2 r^5 R^6 +$$
$$66304 r^7 R^6 - 1024 l^6 R^7 + 109056 l^4 r^2 R^7 - 379392 l^2 r^4 R^7 + 150528 r^6 R^7 + 20480 l^4 r R^8 -$$
$$249856 l^2 r^3 R^8 + 217088 r^5 R^8 - 69632 l^2 r^2 R^9 + 180224 r^4 R^9 + 65536 r^3 R^{10}\big)\Big) \Big/$$
$$\big((1 - r - 2R)^2 (1 + r + 2R)^2 (l^2 - r^2 - 4 r R)^2 (l^2 + r^2 + 8 r R + 16 R^2)^2\big)\Big)\}$$

$$\{X66,\ \text{ISOGONAL CONJUGATE OF } X(22),\ X86,\ \text{CEVAPOINT OF INCENTER AND CENTROID},$$
$$-\frac{1}{(1 - r - 2R)^2 (1 + r + 2R)^2 (l^2 - r^2 - 4 r R)^2 (5 l^2 + r^2 + 4 r R)^2}$$
$$\big(4 l^{14} - 128 l^{12} r^2 + 372 l^{10} r^4 - 384 l^8 r^6 + 140 l^6 r^8 - 4 l^2 r^{12} - 64 l^{12} r R + 1568 l^{10} r^3 R -$$
$$3072 l^8 r^5 R + 1600 l^6 r^7 R + 64 l^4 r^9 R - 96 l^2 r^{11} R - 7 l^{12} R^2 + 1370 l^{10} r^2 R^2 - 8529 l^8 r^4 R^2 +$$
$$7404 l^6 r^6 R^2 + 727 l^4 r^8 R^2 - 966 l^2 r^{10} R^2 + r^{12} R^2 + 24 l^{10} r R^3 - 9352 l^8 r^3 R^3 + 17840 l^6 r^5 R^3 +$$
$$2928 l^4 r^7 R^3 - 5320 l^2 r^9 R^3 + 24 r^{11} R^3 - 36 l^{10} R^4 - 2572 l^8 r^2 R^4 + 22728 l^6 r^4 R^4 +$$
$$4504 l^4 r^6 R^4 - 17444 l^2 r^8 R^4 + 244 r^{10} R^4 + 528 l^8 r R^5 + 12352 l^6 r^3 R^5 + 160 l^4 r^5 R^5 -$$
$$34368 l^2 r^7 R^5 + 1360 r^9 R^5 + 944 l^6 r^2 R^6 - 5280 l^4 r^4 R^6 - 38352 l^2 r^6 R^6 + 4480 r^8 R^6 -$$
$$2688 l^4 r^3 R^7 - 20096 l^2 r^5 R^7 + 8704 r^7 R^7 - 2304 l^2 r^4 R^8 + 9216 r^6 R^8 + 4096 r^5 R^9\big)\}$$

$$\{X66,\ \text{ISOGONAL CONJUGATE OF } X(22),\ X87,\ X(2)\text{-CROSS CONJUGATE OF } X(1),$$
$$\big(6 l^{16} r^2 + 4 l^{14} r^4 - 20 l^{12} r^6 - 12 l^{10} r^8 + 24 l^8 r^{10} + 12 l^6 r^{12} - 12 l^4 r^{14} - 4 l^2 r^{16} + 2 r^{18} +$$
$$2 l^{16} r R - 316 l^{14} r^3 R + 332 l^{12} r^5 R + 340 l^{10} r^7 R - 592 l^8 r^9 R + 268 l^6 r^{11} R + 180 l^4 r^{13} R -$$
$$292 l^2 r^{15} R + 78 r^{17} R - l^{16} R^2 - 144 l^{14} r^2 R^2 + 6280 l^{12} r^4 R^2 - 13352 l^{10} r^6 R^2 + 14102 l^8 r^8 R^2 -$$
$$13056 l^6 r^{10} R^2 + 11072 l^4 r^{12} R^2 - 6216 l^2 r^{14} R^2 + 1315 r^{16} R^2 + 40 l^{14} r R^3 + 4112 l^{12} r^3 R^3 -$$
$$63624 l^{10} r^5 R^3 + 143360 l^8 r^7 R^3 - 169192 l^6 r^9 R^3 + 132688 l^4 r^{11} R^3 - 64184 l^2 r^{13} R^3 +$$
$$12704 r^{15} R^3 + 4 l^{14} R^4 - 380 l^{12} r^2 R^4 - 57260 l^{10} r^4 R^4 + 408596 l^8 r^6 R^4 - 775092 l^6 r^8 R^4 +$$
$$740940 l^4 r^{10} R^4 - 381604 l^2 r^{12} R^4 + 78108 r^{14} R^4 - 176 l^{12} r R^5 - 4224 l^{10} r^3 R^5 + 408784 l^8 r^5 R^5 -$$
$$1657984 l^6 r^7 R^5 + 2269424 l^4 r^9 R^5 - 1402624 l^2 r^{11} R^5 + 319216 r^{13} R^5 + 2640 l^{10} r^2 R^6 +$$
$$99008 l^8 r^4 R^6 - 1652256 l^6 r^6 R^6 + 3940928 l^4 r^8 R^6 - 3250608 l^2 r^{10} R^6 + 873856 r^{12} R^6 -$$
$$13952 l^8 r^3 R^7 - 601472 l^6 r^5 R^7 + 3682944 l^4 r^7 R^7 - 4639872 l^2 r^9 R^7 + 1559040 r^{11} R^7 -$$
$$768 l^6 r^4 R^8 + 1525248 l^4 r^6 R^8 - 3746560 l^2 r^8 R^8 + 1657856 r^{10} R^8 + 114688 l^4 r^5 R^9 -$$
$$1347584 l^2 r^7 R^9 + 765952 r^9 R^9 - 49152 l^2 r^6 R^{10} - 196608 r^8 R^{10} - 262144 r^7 R^{11}\big) \Big/$$
$$\big((1 - r - 2R)^2 (1 + r + 2R)^2 \left(l^2 - r^2 - 4 r R\right)^2 \left(l^4 + 2 l^2 r^2 + r^4 - 20 l^2 r R + 12 r^3 R + 32 r^2 R^2\right)^2\big)\}$$

$$\{X66,\ \text{ISOGONAL CONJUGATE OF } X(22),\ X88,\ \text{ISOGONAL CONJUGATE OF } X(44),$$
$$\frac{1}{(1 - r - 2R)^2 (1 + r + 2R)^2 \left(l^2 + 3 r^2 - 15 r R\right)^2 \left(l^2 - r^2 - 4 r R\right)^2}$$
$$\big(16 l^{10} r^4 - 96 l^6 r^8 + 128 l^4 r^{10} - 48 l^2 r^{12} + l^{12} r R - 22 l^{10} r^3 R - 477 l^8 r^5 R + 812 l^6 r^7 R -$$
$$137 l^4 r^9 R - 150 l^2 r^{11} R - 27 r^{13} R - l^{12} R^2 - 44 l^{10} r^2 R^2 + 563 l^8 r^4 R^2 + 3432 l^6 r^6 R^2 -$$
$$5795 l^4 r^8 R^2 + 2340 l^2 r^{10} R^2 - 495 r^{12} R^2 + 38 l^{10} r R^3 + 866 l^8 r^3 R^3 - 3572 l^6 r^5 R^3 -$$
$$12684 l^4 r^7 R^3 + 14766 l^2 r^9 R^3 - 3510 r^{11} R^3 + 4 l^{10} R^4 - 469 l^8 r^2 R^4 - 9176 l^6 r^4 R^4 +$$
$$12874 l^4 r^6 R^4 + 22452 l^2 r^8 R^4 - 11349 r^{10} R^4 - 152 l^8 r R^5 + 1440 l^6 r^3 R^5 + 42336 l^4 r^5 R^5 -$$
$$26400 l^2 r^7 R^5 - 11592 r^9 R^5 + 1940 l^6 r^2 R^6 + 10388 l^4 r^4 R^6 - 91332 l^2 r^6 R^6 + 24156 r^8 R^6 -$$
$$9040 l^4 r^3 R^7 - 51072 l^2 r^5 R^7 + 69840 r^7 R^7 + 8592 l^2 r^4 R^8 + 46656 r^6 R^8 - 2304 r^5 R^9\big)\}$$

$$\{X66,\ \text{ISOGONAL CONJUGATE OF } X(22),\ X89,\ \text{ISOGONAL CONJUGATE OF } X(45),$$
$$\frac{1}{(1 - r - 2R)^2 (1 + r + 2R)^2 \left(l^2 - r^2 - 4 r R\right)^2 \left(2 l^2 - 6 r^2 + 3 r R\right)^2}$$
$$\big(48 l^{12} r^2 - 368 l^{10} r^4 + 1056 l^8 r^6 - 1440 l^6 r^8 + 944 l^4 r^{10} - 240 l^2 r^{12} - 2 l^{12} r R - 664 l^{10} r^3 R +$$
$$4398 l^8 r^5 R - 9904 l^6 r^7 R + 9226 l^4 r^9 R - 3000 l^2 r^{11} R - 54 r^{13} R - 4 l^{12} R^2 - 434 l^{10} r^2 R^2 +$$
$$5990 l^8 r^4 R^2 - 23628 l^6 r^6 R^2 + 32944 l^4 r^8 R^2 - 13698 l^2 r^{10} R^2 - 1170 r^{12} R^2 + 68 l^{10} r R^3 +$$
$$4412 l^8 r^3 R^3 - 26408 l^6 r^5 R^3 + 51912 l^4 r^7 R^3 - 23388 l^2 r^9 R^3 - 10692 r^{11} R^3 + 16 l^{10} R^4 + 1271 l^8 r^2 R^4 -$$
$$17744 l^6 r^4 R^4 + 33202 l^4 r^6 R^4 + 14304 l^2 r^8 R^4 - 53577 r^{10} R^4 - 176 l^8 r R^5 - 9072 l^6 r^3 R^5 + 3696 l^4 r^5 R^5 +$$
$$113232 l^2 r^7 R^5 - 160416 r^9 R^5 - 1660 l^6 r^2 R^6 + 2228 l^4 r^4 R^6 + 167724 l^2 r^6 R^6 - 293796 r^8 R^6 +$$
$$4880 l^4 r^3 R^7 + 105504 l^2 r^5 R^7 - 324144 r^7 R^7 + 22800 l^2 r^4 R^8 - 202176 r^6 R^8 - 57600 r^5 R^9\big)\}$$

$$\{X66,\ \text{ISOGONAL CONJUGATE OF } X(22),\ X90,\ X(3)\text{-CROSS CONJUGATE OF } X(1),$$
$$-\frac{1}{(-l + r + 2R)^2 (l + r + 2R)^2 \left(-l^2 + r^2 + 4 r R\right)^2 \left(r^2 + 2 r R - R^2\right)^2}$$
$$\big(2 l^{10} r^4 - 12 l^8 r^6 + 24 l^6 r^8 - 20 l^4 r^{10} + 6 l^2 r^{12} - 42 l^8 r^5 R + 172 l^6 r^7 R - 216 l^4 r^9 R +$$
$$84 l^2 r^{11} R + 2 r^{13} R - 2 l^{10} r^2 R^2 + 3 l^8 r^4 R^2 + 320 l^6 r^6 R^2 - 786 l^4 r^8 R^2 + 418 l^2 r^{10} R^2 +$$
$$47 r^{12} R^2 + 60 l^8 r^3 R^3 - 136 l^6 r^5 R^3 - 744 l^4 r^7 R^3 + 600 l^2 r^9 R^3 + 476 r^{11} R^3 + 12 l^8 r^2 R^4 -$$
$$720 l^6 r^4 R^4 + 1872 l^4 r^6 R^4 - 2144 l^2 r^8 R^4 + 2708 r^{10} R^4 - 2 l^8 r R^5 - 340 l^6 r^3 R^5 + 4712 l^4 r^5 R^5 -$$
$$10348 l^2 r^7 R^5 + 9434 r^9 R^5 + l^8 R^6 + 44 l^6 r^2 R^6 + 2978 l^4 r^4 R^6 - 17052 l^2 r^6 R^6 + 20477 r^8 R^6 -$$
$$16 l^6 r R^7 + 72 l^4 r^3 R^7 - 11648 l^2 r^5 R^7 + 26632 r^7 R^7 - 4 l^6 R^8 - 68 l^4 r^2 R^8 - 1548 l^2 r^4 R^8 +$$
$$18036 r^6 R^8 + 80 l^4 r R^9 + 576 l^2 r^3 R^9 + 3376 r^5 R^9 - 272 l^2 r^2 R^{10} - 1344 r^4 R^{10} + 256 r^3 R^{11}\big)\}$$

$$\{X66,\ \text{ISOGONAL CONJUGATE OF } X(22),\ X91,\ \text{ISOGONAL CONJUGATE OF } X(47),$$
$$\Big(R\,\big(l^{14} r - 15 l^{12} r^3 + 77 l^{10} r^5 - 163 l^8 r^7 + 163 l^6 r^9 - 77 l^4 r^{11} + 15 l^2 r^{13} - r^{15} - 29 l^{12} r^2 R +$$
$$342 l^{10} r^4 R - 1315 l^8 r^6 R + 2004 l^6 r^8 R - 1315 l^4 r^{10} R + 342 l^2 r^{12} R - 29 r^{14} R - 12 l^{12} r R^2 +$$
$$512 l^{10} r^3 R^2 - 3836 l^8 r^5 R^2 + 9696 l^6 r^7 R^2 - 9348 l^4 r^9 R^2 + 3360 l^2 r^{11} R^2 - 372 r^{13} R^2 - l^{12} R^3 +$$
$$306 l^{10} r^2 R^3 - 5339 l^8 r^4 R^3 + 24\,028 l^6 r^6 R^3 - 36\,167 l^4 r^8 R^3 + 18\,674 l^2 r^{10} R^3 - 2781 r^{12} R^3 +$$
$$84 l^{10} r R^4 - 3868 l^8 r^3 R^4 + 33\,400 l^6 r^5 R^4 - 83\,560 l^4 r^7 R^4 + 64\,820 l^2 r^9 R^4 - 13\,436 r^{11} R^4 +$$
$$8 l^{10} R^5 - 1460 l^8 r^2 R^5 + 26\,880 l^6 r^4 R^5 - 119\,032 l^4 r^6 R^5 + 146\,328 l^2 r^8 R^5 - 43\,956 r^{10} R^5 -$$
$$320 l^8 r R^6 + 12\,640 l^6 r^3 R^6 - 104\,768 l^4 r^5 R^6 + 216\,800 l^2 r^7 R^6 - 99\,136 r^9 R^6 - 20 l^8 R^7 +$$
$$3504 l^6 r^2 R^7 - 56\,408 l^4 r^4 R^7 + 207\,920 l^2 r^6 R^7 - 153\,780 r^8 R^7 + 544 l^6 r R^8 - 18\,496 l^4 r^3 R^8 +$$
$$124\,960 l^2 r^5 R^8 - 160\,512 r^7 R^8 + 16 l^6 R^9 - 3632 l^4 r^2 R^9 + 45\,360 l^2 r^4 R^9 - 107\,600 r^6 R^9 -$$
$$320 l^4 r R^{10} + 9856 l^2 r^3 R^{10} - 42\,688 r^5 R^{10} + 1088 l^2 r^2 R^{11} - 8960 r^4 R^{11} - 1024 r^3 R^{12}\big)\Big) \Big/$$
$$\Big((l - r - 2R)^2 (l + r + 2R)^2 \left(l^2 - r^2 - 4 r R\right)^2 \left(l^2 r + r^3 - l^2 R + 3 r^2 R + 2 r R^2 + 2 R^3\right)^2\Big)\}$$

$$\{X66,\ \text{ISOGONAL CONJUGATE OF } X(22),\ X92,\ \text{CEVAPOINT OF INCENTER AND CLAWSON POINT},$$
$$-\frac{1}{(l - r - 2R)^2 (l + r + 2R)^2 \left(l^2 - r^2 - 4 r R\right)^2 \left(l^2 + r^2 - 4 R^2\right)^2}$$
$$R\,\big(4 l^{12} r - 40 l^{10} r^3 + 124 l^8 r^5 - 176 l^6 r^7 + 124 l^4 r^9 - 40 l^2 r^{11} + 4 r^{13} + l^{12} R -$$
$$134 l^{10} r^2 R + 903 l^8 r^4 R - 2004 l^6 r^6 R + 1935 l^4 r^8 R - 806 l^2 r^{10} R + 105 r^{12} R - 80 l^{10} r R^2 +$$
$$2112 l^8 r^3 R^2 - 8736 l^6 r^5 R^2 + 12\,544 l^4 r^7 R^2 - 7056 l^2 r^9 R^2 + 1216 r^{11} R^2 - 12 l^{10} R^3 +$$
$$1820 l^8 r^2 R^3 - 18\,312 l^6 r^4 R^3 + 43\,624 l^4 r^6 R^3 - 35\,052 l^2 r^8 R^3 + 8188 r^{10} R^3 + 560 l^8 r R^4 -$$
$$19\,008 l^6 r^3 R^4 + 87\,776 l^4 r^5 R^4 - 108\,480 l^2 r^7 R^4 + 35\,568 r^9 R^4 + 48 l^8 R^5 - 9040 l^6 r^2 R^5 +$$
$$102\,400 l^4 r^4 R^5 - 216\,144 l^2 r^6 R^5 + 104\,496 r^8 R^5 - 1664 l^6 r R^6 + 65\,152 l^4 r^3 R^6 -$$
$$275\,840 l^2 r^5 R^6 + 211\,328 r^7 R^6 - 64 l^6 R^7 + 19\,264 l^4 r^2 R^7 - 215\,104 l^2 r^4 R^7 + 292\,416 r^6 R^7 +$$
$$1792 l^4 r R^8 - 90\,624 l^2 r^3 R^8 + 267\,008 r^5 R^8 - 14\,592 l^2 r^2 R^9 + 146\,432 r^4 R^9 + 36\,864 r^3 R^{10}\big)\}$$

$$\{X66,\ \text{ISOGONAL CONJUGATE OF } X(22),\ X93,\ \text{ISOGONAL CONJUGATE OF } X(49),$$
$$\Big(R^2\,\big(l^{16} - 36 l^{14} r^2 + 308 l^{12} r^4 - 988 l^{10} r^6 + 1430 l^8 r^8 - 988 l^6 r^{10} + 308 l^4 r^{12} - 36 l^2 r^{14} + r^{16} - 32 l^{14} r R +$$
$$896 l^{12} r^3 R - 5824 l^{10} r^5 R + 13\,728 l^8 r^7 R - 13\,728 l^6 r^9 R + 5824 l^4 r^{11} R - 896 l^2 r^{13} R + 32 r^{15} R -$$
$$12 l^{14} R^2 + 836 l^{12} r^2 R^2 - 12\,204 l^{10} r^4 R^2 + 51\,396 l^8 r^6 R^2 - 78\,852 l^6 r^8 R^2 + 47\,148 l^4 r^{10} R^2 -$$
$$9796 l^2 r^{12} R^2 + 460 r^{14} R^2 + 336 l^{12} r R^3 - 11\,680 l^{10} r^3 R^3 + 95\,408 l^8 r^5 R^3 - 241\,856 l^6 r^7 R^3 +$$
$$213\,680 l^4 r^9 R^3 - 61\,856 l^2 r^{11} R^3 + 3920 r^{13} R^3 + 48 l^{12} R^4 - 5256 l^{10} r^2 R^4 + 93\,456 l^8 r^4 R^4 -$$
$$426\,480 l^6 r^6 R^4 + 593\,360 l^4 r^8 R^4 - 249\,224 l^2 r^{10} R^4 + 22\,000 r^{12} R^4 - 1152 l^{10} r R^5 + 47\,616 l^8 r^3 R^5 -$$
$$434\,048 l^6 r^5 R^5 + 1\,034\,624 l^4 r^7 R^5 - 666\,880 l^2 r^9 R^5 + 85\,376 r^{11} R^5 - 56 l^{10} R^6 + 11\,624 l^8 r^2 R^6 -$$
$$242\,208 l^6 r^4 R^6 + 1\,110\,304 l^4 r^6 R^6 - 1\,191\,784 l^2 r^8 R^6 + 233\,784 r^{10} R^6 + 1120 l^8 r R^7 - 63\,808 l^6 r^3 R^7 +$$
$$679\,360 l^4 r^5 R^7 - 1\,384\,768 l^2 r^7 R^7 + 451\,680 r^9 R^7 - 69 l^8 R^8 - 4464 l^6 r^2 R^8 + 188\,906 l^4 r^4 R^8 -$$
$$966\,256 l^2 r^6 R^8 + 602\,811 r^8 R^8 + 1104 l^6 r R^9 - 1232 l^4 r^3 R^9 - 318\,256 l^2 r^5 R^9 + 526\,256 r^7 R^9 +$$
$$132 l^6 R^{10} - 8268 l^4 r^2 R^{10} + 10\,732 l^2 r^4 R^{10} + 261\,532 r^6 R^{10} - 1584 l^4 r R^{11} + 25\,824 l^2 r^3 R^{11} +$$
$$38\,096 r^5 R^{11} + 64 l^4 R^{12} - 1904 l^2 r^2 R^{12} - 23\,936 r^4 R^{12} - 512 l^2 r R^{13} - 7936 r^3 R^{13} + 1024 r^2 R^{14}\big)\Big) \Big/$$
$$\Big((l - r - 2R)^2 (l + r + 2R)^2 \left(l^2 - r^2 - 4 r R\right)^2$$
$$\left(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 8 l^2 R^2 + 24 r^2 R^2 + 32 r R^3 + 13 R^4\right)^2\Big)\}$$

$$\{X66,\ \text{ISOGONAL CONJUGATE OF } X(22),\ X94,\ \text{ISOGONAL CONJUGATE OF } X(50),$$
$$\Big(R^2\big(5 l^{16} - 68 l^{14} r^2 + 356 l^{12} r^4 - 956 l^{10} r^6 + 1326 l^8 r^8 - 956 l^6 r^{10} + 356 l^4 r^{12} - 68 l^2 r^{14} + 5 r^{16} -$$
$$160 l^{14} r R + 1792 l^{12} r^3 R - 7488 l^{10} r^5 R + 15136 l^8 r^7 R - 15136 l^6 r^9 R + 7488 l^4 r^{11} R -$$
$$1792 l^2 r^{13} R + 160 r^{15} R - 74 l^{14} R^2 + 3078 l^{12} r^2 R^2 - 23538 l^{10} r^4 R^2 + 72062 l^8 r^6 R^2 -$$
$$102334 l^6 r^8 R^2 + 68466 l^4 r^{10} R^2 - 20998 l^2 r^{12} R^2 + 2314 r^{14} R^2 + 2072 l^{12} r R^3 - 36752 l^{10} r^3 R^3 +$$
$$184808 l^8 r^5 R^3 - 386272 l^6 r^7 R^3 + 358376 l^4 r^9 R^3 - 144272 l^2 r^{11} R^3 + 19992 r^{13} R^3 + 396 l^{12} R^4 -$$
$$28512 l^{10} r^2 R^4 + 274580 l^8 r^4 R^4 - 892096 l^6 r^6 R^4 + 1187380 l^4 r^8 R^4 - 645088 l^2 r^{10} R^4 +$$
$$114860 r^{12} R^4 - 9504 l^{10} r R^5 + 233632 l^8 r^3 R^5 - 1298112 l^6 r^5 R^5 + 2594240 l^4 r^7 R^5 -$$
$$1967904 l^2 r^9 R^5 + 461984 r^{11} R^5 - 882 l^{10} R^6 + 102978 l^8 r^2 R^6 - 1175500 l^6 r^4 R^6 +$$
$$3771724 l^4 r^6 R^6 - 4170498 l^2 r^8 R^6 + 1332402 r^{10} R^6 + 17640 l^8 r R^7 - 619776 l^6 r^3 R^7 +$$
$$3591216 l^4 r^5 R^7 - 6124800 l^2 r^7 R^7 + 2771176 r^9 R^7 + 567 l^8 R^8 - 157968 l^6 r^2 R^8 + 2135538 l^4 r^4 R^8 -$$
$$6098192 l^2 r^6 R^8 + 4111735 r^8 R^8 - 9072 l^6 r R^9 + 708336 l^4 r^3 R^9 - 3931632 l^2 r^5 R^9 +$$
$$4218992 r^7 R^9 + 324 l^6 R^{10} + 92340 l^4 r^2 R^{10} - 1509012 l^2 r^4 R^{10} + 2805084 r^6 R^{10} - 3888 l^4 r R^{11} -$$
$$292896 l^2 r^3 R^{11} + 1044432 r^5 R^{11} - 19440 l^2 r^2 R^{12} + 129600 r^4 R^{12} - 20736 r^3 R^{13}\big)\Big) \Big/$$
$$\Big((1 - r - 2R)^2 (1 + r + 2R)^2 \left(l^2 - r^2 - 4 r R\right)^2$$
$$\left(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 12 l^2 R^2 + 28 r^2 R^2 + 48 r R^3 + 27 R^4\right)^2\Big)\}$$

$$\{X66,\ \text{ISOGONAL CONJUGATE OF } X(22),\ X95,\ \text{CEVAPOINT OF CENTROID AND CIRCUMCENTER},$$
$$-\Big(\big(16 l^{16} r^2 + 144 l^{14} r^4 - 2224 l^{12} r^6 + 5840 l^{10} r^8 - 5840 l^8 r^{10} + 2224 l^6 r^{12} - 144 l^4 r^{14} - 16 l^2 r^{16} -$$
$$448 l^{14} r^3 R - 2432 l^{12} r^5 R + 29120 l^{10} r^7 R - 52480 l^8 r^9 R + 29120 l^6 r^{11} R - 2432 l^4 r^{13} R -$$
$$448 l^2 r^{15} R + l^{16} R^2 - 140 l^{14} r^2 R^2 + 3620 l^{12} r^4 R^2 + 31628 l^{10} r^6 R^2 - 161866 l^8 r^8 R^2 +$$
$$148108 l^6 r^{10} R^2 - 15836 l^4 r^{12} R^2 - 5516 l^2 r^{14} R^2 + r^{16} R^2 - 32 l^{14} r R^3 + 3392 l^{12} r^3 R^3 -$$
$$11136 l^{10} r^5 R^3 - 185568 l^8 r^7 R^3 + 359648 l^6 r^9 R^3 - 45184 l^4 r^{11} R^3 - 39232 l^2 r^{13} R^3 +$$
$$32 r^{15} R^3 - 12 l^{14} R^4 + 628 l^{12} r^2 R^4 - 23900 l^{10} r^4 R^4 - 25756 l^8 r^6 R^4 + 396892 l^6 r^8 R^4 -$$
$$21924 l^4 r^{10} R^4 - 177908 l^2 r^{12} R^4 + 460 r^{14} R^4 + 336 l^{12} r R^5 - 7520 l^{10} r^3 R^5 + 65200 l^8 r^5 R^5 +$$
$$115392 l^6 r^7 R^5 + 187568 l^4 r^9 R^5 - 534880 l^2 r^{11} R^5 + 3920 r^{13} R^5 + 48 l^{12} R^6 - 2416 l^{10} r^2 R^6 +$$
$$20816 l^8 r^4 R^6 - 46240 l^6 r^6 R^6 + 436752 l^4 r^8 R^6 - 1071216 l^2 r^{10} R^6 + 22000 r^{12} R^6 -$$
$$1152 l^{10} r R^7 + 2176 l^8 r^3 R^7 + 59392 l^6 r^5 R^7 + 264704 l^4 r^7 R^7 - 1389440 l^2 r^9 R^7 + 85376 r^{11} R^7 -$$
$$64 l^{10} R^8 + 5312 l^8 r^2 R^8 + 71168 l^6 r^4 R^8 - 189952 l^4 r^6 R^8 - 1072576 l^2 r^8 R^8 + 233792 r^{10} R^8 +$$
$$1280 l^8 r R^9 + 11776 l^6 r^3 R^9 - 286208 l^4 r^5 R^9 - 369152 l^2 r^7 R^9 + 451840 r^9 R^9 - 3328 l^6 r^2 R^{10} -$$
$$112128 l^4 r^4 R^{10} + 64256 l^2 r^6 R^{10} + 604160 r^8 R^{10} - 14336 l^4 r^3 R^{11} + 96256 l^2 r^5 R^{11} +$$
$$532480 r^7 R^{11} + 28672 l^2 r^4 R^{12} + 278528 r^6 R^{12} + 65536 r^5 R^{13}\big) \Big/ \Big((1 - r - 2R)^2 (1 + r + 2R)^2$$
$$\left(l^2 - r^2 - 4 r R\right)^2 \left(l^4 + 18 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 4 l^2 R^2 + 20 r^2 R^2 + 16 r R^3\right)^2\Big)\Big)\}$$

$$\{X66,\ \text{ISOGONAL CONJUGATE OF } X(22),\ X96,\ \text{ISOGONAL CONJUGATE OF } X(52),$$
$$-\Big(\big(2 l^{18} - 58 l^{16} r^2 + 576 l^{14} r^4 - 2512 l^{12} r^6 + 5044 l^{10} r^8 - 5044 l^8 r^{10} + 2512 l^6 r^{12} - 576 l^4 r^{14} +$$
$$58 l^2 r^{16} - 2 r^{18} - 72 l^{16} r R + 1696 l^{14} r^3 R - 13216 l^{12} r^5 R + 43360 l^{10} r^7 R - 63536 l^8 r^9 R +$$
$$43360 l^6 r^{11} R - 13216 l^4 r^{13} R + 1696 l^2 r^{15} R - 72 r^{17} R - 31 l^{16} R^2 + 1892 l^{14} r^2 R^2 -$$
$$27516 l^{12} r^4 R^2 + 147996 l^{10} r^6 R^2 - 331594 l^8 r^8 R^2 + 321436 l^6 r^{10} R^2 - 133244 l^4 r^{12} R^2 +$$
$$22244 l^2 r^{14} R^2 - 1183 r^{16} R^2 + 992 l^{14} r R^3 - 29504 l^{12} r^3 R^3 + 269056 l^{10} r^5 R^3 -$$
$$944096 l^8 r^7 R^3 + 1344992 l^6 r^9 R^3 - 777984 l^4 r^{11} R^3 + 172864 l^2 r^{13} R^3 - 11744 r^{15} R^3 +$$
$$212 l^{14} R^4 - 17804 l^{12} r^2 R^4 + 290788 l^{10} r^4 R^4 - 1636220 l^8 r^6 R^4 + 3524412 l^6 r^8 R^4 -$$
$$2922980 l^4 r^{10} R^4 + 886284 l^2 r^{12} R^4 - 78612 r^{14} R^4 - 5936 l^{12} r R^5 + 195360 l^{10} r^3 R^5 -$$
$$1826000 l^8 r^5 R^5 + 6093248 l^6 r^7 R^5 - 7442128 l^4 r^9 R^5 + 3161888 l^2 r^{11} R^5 - 375088 r^{13} R^5 -$$
$$824 l^{12} R^6 + 81920 l^{10} r^2 R^6 - 1349704 l^8 r^4 R^6 + 7160448 l^6 r^6 R^6 - 13208968 l^4 r^8 R^6 +$$
$$8078592 l^2 r^{10} R^6 - 1315704 r^{12} R^6 + 19776 l^{10} r R^7 - 665664 l^8 r^3 R^7 + 5815680 l^6 r^5 R^7 -$$
$$16608128 l^4 r^7 R^7 + 15017280 l^2 r^9 R^7 - 3451968 r^{11} R^7 + 1952 l^{10} R^8 - 212768 l^8 r^2 R^8 +$$
$$3282368 l^6 r^4 R^8 - 14913728 l^4 r^6 R^8 + 20474528 l^2 r^8 R^8 - 6834208 r^{10} R^8 - 39040 l^8 r R^9 +$$
$$1273856 l^6 r^3 R^9 - 9574144 l^4 r^5 R^9 + 20525056 l^2 r^7 R^9 - 10240128 r^9 R^9 - 2864 l^8 R^{10} +$$
$$322688 l^6 r^2 R^{10} - 4363424 l^4 r^4 R^{10} + 15076480 l^2 r^6 R^{10} - 11589424 r^8 R^{10} + 45824 l^6 r R^{11} -$$
$$1378048 l^4 r^3 R^{11} + 8025856 l^2 r^5 R^{11} - 9831168 r^7 R^{11} + 2496 l^6 R^{12} - 279872 l^4 r^2 R^{12} +$$
$$3035968 l^2 r^4 R^{12} - 6151104 r^6 R^{12} - 29952 l^4 r R^{13} + 782848 l^2 r^3 R^{13} - 2761984 r^5 R^{13} -$$
$$1024 l^4 R^{14} + 122624 l^2 r^2 R^{14} - 854016 r^4 R^{14} + 8192 l^2 r R^{15} - 167936 r^3 R^{15} - 16384 r^2 R^{16}\big) \Big/$$
$$\Big((1 - r - 2R)^2 (1 + r + 2R)^2 \left(l^2 - r^2 - 4 r R\right)^2 \left(l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2 - 4 R^4\right)^2\Big)\Big)\}$$

$$\{X66,\ \text{ISOGONAL CONJUGATE OF } X(22),\ X97,\ \text{ISOGONAL CONJUGATE OF } X(53),$$
$$\big(12\,l^{16}r^2-148\,l^{14}r^4+636\,l^{12}r^6-1252\,l^{10}r^8+1252\,l^8r^{10}-636\,l^6r^{12}+148\,l^4r^{14}-12\,l^2r^{16}-$$
$$336\,l^{14}r^3R+3296\,l^{12}r^5R-10928\,l^{10}r^7R+15936\,l^8r^9R-10928\,l^6r^{11}R+3296\,l^4r^{13}R-$$
$$336\,l^2r^{15}R-232\,l^{14}r^2R^2+6240\,l^{12}r^4R^2-37592\,l^{10}r^6R^2+84544\,l^8r^8R^2-81304\,l^6r^{10}R^2+$$
$$32608\,l^4r^{12}R^2-4264\,l^2r^{14}R^2+5568\,l^{12}r^3R^3-67776\,l^{10}r^5R^3+246912\,l^8r^7R^3-345728\,l^6r^9R^3+$$
$$189376\,l^4r^{11}R^3-32448\,l^2r^{13}R^3+1920\,l^{12}r^2R^4-69376\,l^{10}r^4R^4+441088\,l^8r^6R^4-$$
$$934912\,l^6r^8R^4+719232\,l^4r^{10}R^4-165120\,l^2r^{12}R^4-38400\,l^{10}r^3R^5+499712\,l^8r^5R^5-$$
$$1690624\,l^6r^7R^5+1884160\,l^4r^9R^5-593408\,l^2r^{11}R^5-l^{12}R^6-8718\,l^{10}r^2R^6+352065\,l^8r^4R^6-$$
$$2082148\,l^6r^6R^6+3497793\,l^4r^8R^6-1550862\,l^2r^{10}R^6-r^{12}R^6+24\,l^{10}rR^7+139464\,l^8r^3R^7-$$
$$1727184\,l^6r^5R^7+4643536\,l^4r^7R^7-2990280\,l^2r^9R^7-24\,r^{11}R^7+12\,l^{10}R^8+22708\,l^8r^2R^8-$$
$$916840\,l^6r^4R^8+4371208\,l^4r^6R^8-4267364\,l^2r^8R^8-252\,r^{10}R^8-240\,l^8rR^9-273856\,l^6r^3R^9+$$
$$2825824\,l^4r^5R^9-4470720\,l^2r^7R^9-1520\,r^9R^9-48\,l^8R^{10}-31920\,l^6r^2R^{10}+1167168\,l^4r^4R^{10}-$$
$$3358128\,l^2r^6R^{10}-5808\,r^8R^{10}+768\,l^6rR^{11}+262272\,l^4r^3R^{11}-1720960\,l^2r^5R^{11}-14592\,r^7R^{11}+$$
$$64\,l^6R^{12}+20160\,l^4r^2R^{12}-544704\,l^2r^4R^{12}-24128\,r^6R^{12}-768\,l^4rR^{13}-86016\,l^2r^3R^{13}-$$
$$25344\,r^5R^{13}-3840\,l^2r^2R^{14}-15360\,r^4R^{14}-4096\,r^3R^{15}\big)\Big/\Big((l-r-2R)^2(l+r+2R)^2$$
$$\big(l^2-r^2-4rR\big)^2\big(l^4-6l^2r^2+r^4-8l^2rR+8r^3R-7l^2R^2+23r^2R^2+28rR^3+12R^4\big)^2\Big)\}$$

$$\{X66,\ \text{ISOGONAL CONJUGATE OF } X(22),\ X98,\ \text{TarryPoint},$$
$$-\Big(\big(2\,l^{14}-30\,l^{12}r^2+154\,l^{10}r^4-326\,l^8r^6+326\,l^6r^8-154\,l^4r^{10}+30\,l^2r^{12}-2\,r^{14}-$$
$$56\,l^{12}rR+656\,l^{10}r^3R-2504\,l^8r^5R+3808\,l^6r^7R-2504\,l^4r^9R+656\,l^2r^{11}R-$$
$$56\,r^{13}R-19\,l^{12}R^2+922\,l^{10}r^2R^2-6989\,l^8r^4R^2+17612\,l^6r^6R^2-17005\,l^4r^8R^2+$$
$$6170\,l^2r^{10}R^2-691\,r^{12}R^2+456\,l^{10}rR^3-8936\,l^8r^3R^3+41168\,l^6r^5R^3-62416\,l^4r^7R^3+$$
$$32616\,l^2r^9R^3-4936\,r^{11}R^3+60\,l^{10}R^4-5260\,l^8r^2R^4+51656\,l^6r^4R^4-133992\,l^4r^6R^4+$$
$$106236\,l^2r^8R^4-22540\,r^{10}R^4-1200\,l^8rR^5+33920\,l^6r^3R^5-170144\,l^4r^5R^5+$$
$$219776\,l^2r^7R^5-68528\,r^9R^5-64\,l^8R^6+10288\,l^6r^2R^6-122784\,l^4r^4R^6+286768\,l^2r^6R^6-$$
$$139968\,r^8R^6+1024\,l^6rR^7-44928\,l^4r^3R^7+225664\,l^2r^5R^7-188928\,r^7R^7-$$
$$6144\,l^4r^2R^8+96000\,l^2r^4R^8-160768\,r^6R^8+16384\,l^2r^3R^9-77824\,r^5R^9-16384\,r^4R^{10}\big)\Big/$$
$$\Big((l-r-2R)^2(l+r+2R)^2\big(l^2-r^2-4rR\big)^2\big(l^4-14l^2r^2+r^4-8l^2rR+8r^3R+16r^2R^2\big)\Big)\Big)\}$$

$$\{X66,\ \text{ISOGONAL CONJUGATE OF } X(22),\ X99,\ \text{STEINER POINT},$$
$$\big(16\,l^{12}r^2-144\,l^{10}r^4+352\,l^8r^6-352\,l^6r^8+144\,l^4r^{10}-16\,l^2r^{12}-320\,l^{10}r^3R+2048\,l^8r^5R-$$
$$3456\,l^6r^7R+2048\,l^4r^9R-320\,l^2r^{11}R-l^{12}R^2-130\,l^{10}r^2R^2+3521\,l^8r^4R^2-12412\,l^6r^6R^2+$$
$$11713\,l^4r^8R^2-2690\,l^2r^{10}R^2-r^{12}R^2+24\,l^{10}rR^3+2056\,l^8r^3R^3-19984\,l^6r^5R^3+$$
$$34320\,l^4r^7R^3-12296\,l^2r^9R^3-24\,r^{11}R^3+4\,l^{10}R^4+140\,l^8r^2R^4-14152\,l^6r^4R^4+$$
$$54120\,l^4r^6R^4-32956\,l^2r^8R^4-244\,r^{10}R^4-80\,l^8rR^5-3200\,l^6r^3R^5+43680\,l^4r^5R^5-$$
$$51840\,l^2r^7R^5-1360\,r^9R^5+208\,l^6r^2R^6+14880\,l^4r^4R^6-44848\,l^2r^6R^6-4480\,r^8R^6+$$
$$896\,l^4r^3R^7-17792\,l^2r^5R^7-8704\,r^7R^7-1792\,l^2r^4R^8-9216\,r^6R^8-4096\,r^5R^9\big)\Big/$$
$$\Big((l-r-2R)^2(l+r+2R)^2\big(l^2-r^2-4rR\big)^2\big(l^4-14l^2r^2+r^4-8l^2rR+8r^3R+16r^2R^2\big)\Big)\}$$

$$\{X66,\ \text{ISOGONAL CONJUGATE OF } X(22),\ X100,$$
$$\text{ANTICOMPLEMENT OF FEUERBACH POINT},\ \frac{1}{(2r-R)(-l+r+2R)^2(l+r+2R)^2\big(-l^2+r^2+4rR\big)^2}$$
$$\big(-2\,l^{10}r+18\,l^8r^3-44\,l^6r^5+44\,l^4r^7-18\,l^2r^9+2\,r^{11}+44\,l^8r^2R-272\,l^6r^4R+$$
$$456\,l^4r^6R-272\,l^2r^8R+44\,r^{10}R+18\,l^8rR^2-520\,l^6r^3R^2+1780\,l^4r^5R^2-1688\,l^2r^7R^2+$$
$$410\,r^9R^2+l^8R^3-344\,l^6r^2R^3+3238\,l^4r^4R^3-5512\,l^2r^6R^3+2105\,r^8R^3-72\,l^6rR^4+$$
$$2760\,l^4r^3R^4-10072\,l^2r^5R^4+6488\,r^7R^4-4\,l^6R^5+972\,l^4r^2R^5-10092\,l^2r^4R^5+$$
$$12260\,r^6R^5+112\,l^4rR^6-4992\,l^2r^3R^6+13872\,r^5R^6-912\,l^2r^2R^7+8640\,r^4R^7+2304\,r^3R^8\big)\}$$

$$\{X67,\ \text{ISOGONAL CONJUGATE OF } X(23),\ X68,\ \text{PRASOLOV POINT},$$
$$-\Big(\big(R^2\big(l^2-r^2-4rR-6R^2\big)^2\big(8l^4r^2-8l^2r^4-32l^2r^3R+l^4R^2-50l^2r^2R^2+r^4R^2-8l^2rR^3+8r^3R^3+$$
$$16r^2R^4\big)\big)\Big/\Big((l-r-2R)^2(l+r+2R)^2\big(l^2-r^2-4rR\big)^2\big(2l^2-2r^2-8rR-9R^2\big)\Big)\Big)\}$$

$$\{X67,\ \text{ISOGONAL CONJUGATE OF } X(23),\ X69,\ \text{SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},$$
$$-\frac{R^2\big(l^6+9l^4r^2-9l^2r^4-r^6-12l^4rR-24l^2r^3R-12r^5R-60l^2r^2R^2-48r^4R^2-64r^3R^3\big)}{\big(l^2-r^2-4rR\big)^2\big(2l^2-2r^2-8rR-9R^2\big)}\}$$

$$\{X67,\ \text{ISOGONAL CONJUGATE OF } X(23),\ X70,\ \text{ISOGONAL CONJUGATE OF } X(26),$$
$$-\Big(\big(R^2\,(l^2-r^2-4\,r\,R-3\,R^2)^2\,(8\,l^8\,r^2-24\,l^6\,r^4+24\,l^4\,r^6-8\,l^2\,r^8-96\,l^6\,r^3\,R+192\,l^4\,r^5\,R-$$
$$96\,l^2\,r^7\,R-100\,l^6\,r^2\,R^2+584\,l^4\,r^4\,R^2-484\,l^2\,r^6\,R^2+800\,l^4\,r^3\,R^3-1312\,l^2\,r^5\,R^3-$$
$$l^6\,R^4+423\,l^4\,r^2\,R^4-2023\,l^2\,r^4\,R^4+r^6\,R^4+12\,l^4\,r\,R^5-1704\,l^2\,r^3\,R^5+12\,r^5\,R^5+$$
$$4\,l^4\,R^6-644\,l^2\,r^2\,R^6+52\,r^4\,R^6-32\,l^2\,r\,R^7+96\,r^3\,R^7+64\,r^2\,R^8)\big)\Big/\Big((l^2-r^2-4\,r\,R)^2$$
$$(2\,l^2-2\,r^2-8\,r\,R-9\,R^2)\,(l^4-2\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-6\,l^2\,R^2+22\,r^2\,R^2+24\,r\,R^3+7\,R^4)^2\Big)\Big)\}$$

$$\{X67,\ \text{ISOGONAL CONJUGATE OF } X(23),\ X71,\ \text{ISOGONAL CONJUGATE OF } X(27),$$
$$-\Big(\big((3\,l^4-14\,l^2\,r^2-r^4-28\,l^2\,r\,R-12\,r^3\,R+4\,l^2\,R^2-48\,r^2\,R^2-64\,r\,R^3)$$
$$(l^4-r^4-8\,r^3\,R-2\,l^2\,R^2-20\,r^2\,R^2-16\,r\,R^3)^2\big)\Big/$$
$$\big((l^2-r^2-4\,r\,R)^2\,(2\,l^2-2\,r^2-8\,r\,R-9\,R^2)\,(l^2+r^2+6\,r\,R+8\,R^2)^2\big)\Big)\}$$

$$\{X67,\ \text{ISOGONAL CONJUGATE OF } X(23),\ X72,\ \text{ISOGONAL CONJUGATE OF } X(28),$$
$$-\frac{(-2\,l^2\,r+2\,r^3-l^2\,R+9\,r^2\,R+10\,r\,R^2)^2\,(-l^2\,r+r^3-l^2\,R+8\,r^2\,R+16\,r\,R^2)}{R\,(-l^2+r^2+4\,r\,R)^2\,(-2\,l^2+2\,r^2+8\,r\,R+9\,R^2)}\}$$

$$\{X67,\ \text{ISOGONAL CONJUGATE OF } X(23),\ X73,$$
$$\text{CROSSPOINT OF INCENTER AND CIRCUMCENTER},\ \big((l^4-r^4-4\,l^2\,r\,R-4\,r^3\,R-4\,l^2\,R^2-2\,r^2\,R^2+4\,r\,R^3)^2$$
$$(l^4+14\,l^2\,r^2-3\,r^4-20\,l^2\,r\,R-20\,r^3\,R-4\,l^2\,R^2-16\,r^2\,R^2+64\,r\,R^3)\big)\Big/$$
$$\big((l^2-r^2-4\,r\,R)^2\,(2\,l^2-2\,r^2-8\,r\,R-9\,R^2)\,(l^2+r^2-2\,r\,R-4\,R^2)^2\big)\}$$

$$\{X67,\ \text{ISOGONAL CONJUGATE OF } X(23),\ X74,\ \text{ISOGONAL CONJUGATE OF EULER INFINITY POINT},$$
$$-\frac{1}{(l^2-r^2-4\,r\,R)^2}\,(l^6-7\,l^4\,r^2+7\,l^2\,r^4-r^6-12\,l^4\,r\,R+40\,l^2\,r^3\,R-$$
$$12\,r^5\,R-4\,l^4\,R^2+68\,l^2\,r^2\,R^2-52\,r^4\,R^2+32\,l^2\,r\,R^3-96\,r^3\,R^3-64\,r^2\,R^4)\}$$

$$\{X67,\ \text{ISOGONAL CONJUGATE OF } X(23),\ X75,\ \text{ISOTOMIC CONJUGATE OF INCENTER},$$
$$-\frac{1}{(l^2-r^2-4\,r\,R)^2\,(l^2+r^2+4\,r\,R)^2\,(2\,l^2-2\,r^2-8\,r\,R-9\,R^2)}$$
$$R\,(8\,l^{10}\,r-128\,l^8\,r^3+240\,l^6\,r^5-128\,l^4\,r^7+8\,l^2\,r^9+l^{10}\,R-237\,l^8\,r^2\,R+1522\,l^6\,r^4\,R-$$
$$1426\,l^4\,r^6\,R+141\,l^2\,r^8\,R-r^{10}\,R-52\,l^8\,r\,R^2+2720\,l^6\,r^3\,R^2-5784\,l^4\,r^5\,R^2+$$
$$1024\,l^2\,r^7\,R^2-20\,r^9\,R^2+916\,l^6\,r^2\,R^3-9944\,l^4\,r^4\,R^3+3764\,l^2\,r^6\,R^3-160\,r^8\,R^3-$$
$$5728\,l^4\,r^3\,R^4+6816\,l^2\,r^5\,R^4-640\,r^7\,R^4+4672\,l^2\,r^4\,R^5-1280\,r^6\,R^5-1024\,r^5\,R^6)\}$$

$$\{X67,\ \text{ISOGONAL CONJUGATE OF } X(23),\ X76,\ \text{3rd BROCARD POINT},$$
$$-\Big(\big(R^2\,(l^4-14\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R+16\,r^2\,R^2)\,(l^{10}+19\,l^8\,r^2-110\,l^6\,r^4+110\,l^4\,r^6-19\,l^2\,r^8-r^{10}-$$
$$20\,l^8\,r\,R-208\,l^6\,r^3\,R+648\,l^4\,r^5\,R-208\,l^2\,r^7\,R-20\,r^9\,R+52\,l^6\,r^2\,R^2+1032\,l^4\,r^4\,R^2-780\,l^2\,r^6\,R^2-$$
$$160\,r^8\,R^2+224\,l^4\,r^3\,R^3-1120\,l^2\,r^5\,R^3-640\,r^7\,R^3-448\,l^2\,r^4\,R^4-1280\,r^6\,R^4-1024\,r^5\,R^5)\big)\Big/$$
$$\big((l^2-r^2-4\,r\,R)^2\,(2\,l^2-2\,r^2-8\,r\,R-9\,R^2)\,(l^4+2\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R+16\,r^2\,R^2)^2\big)\Big)\}$$

$$\{X67,\ \text{ISOGONAL CONJUGATE OF } X(23),\ X77,\ \text{ISOGONAL CONJUGATE OF } X(33),$$
$$\frac{1}{(l^2-r^2-4\,r\,R)^2\,(2\,l^2-2\,r^2-8\,r\,R-9\,R^2)\,(l^2-r\,R-4\,R^2)^2}$$
$$(l^{12}+12\,l^{10}\,r^2-30\,l^8\,r^4+20\,l^6\,r^6-3\,l^4\,r^8-29\,l^{10}\,r\,R-82\,l^8\,r^3\,R+156\,l^6\,r^5\,R-46\,l^4\,r^7\,R+$$
$$l^2\,r^9\,R-12\,l^{10}\,R^2+90\,l^8\,r^2\,R^2+378\,l^6\,r^4\,R^2-282\,l^4\,r^6\,R^2+18\,l^2\,r^8\,R^2+304\,l^8\,r\,R^3-22\,l^6\,r^3\,R^3-$$
$$756\,l^4\,r^5\,R^3+122\,l^2\,r^7\,R^3+48\,l^8\,R^4-1285\,l^6\,r^2\,R^4-349\,l^4\,r^4\,R^4+349\,l^2\,r^6\,R^4+r^8\,R^4-$$
$$1040\,l^6\,r\,R^5+2148\,l^4\,r^3\,R^5+96\,l^2\,r^5\,R^5+20\,r^7\,R^5-64\,l^6\,R^6+3456\,l^4\,r^2\,R^6-1780\,l^2\,r^4\,R^6+$$
$$160\,r^6\,R^6+1152\,l^4\,r\,R^7-3744\,l^2\,r^3\,R^7+640\,r^5\,R^7-2112\,l^2\,r^2\,R^8+1280\,r^4\,R^8+1024\,r^3\,R^9)\}$$

$$\Big\{X67,\ \text{ISOGONAL CONJUGATE OF } X(23),\ X78,\ \text{ISOGONAL CONJUGATE OF } X(34),\ \frac{1}{(r-R)^2\left(-l^2+r^2+4rR\right)^2\left(-2l^2+2r^2+8rR+9R^2\right)}$$
$$\left(-l^8r^2-12l^6r^4+30l^4r^6-20l^2r^8+3r^{10}-l^8rR+30l^6r^3R+84l^4r^5R-158l^2r^7R+45r^9R+34l^6r^2R^2-126l^4r^4R^2-354l^2r^6R^2+254r^8R^2+8l^6rR^3-414l^4r^3R^3+148l^2r^5R^3+610r^7R^3+l^6R^4-207l^4r^2R^4+1471l^2r^4R^4+227r^6R^4-36l^4rR^5+1608l^2r^3R^5-1708r^5R^5+420l^2r^2R^6-3056r^4R^6-1600r^3R^7\right)\Big\}$$

$$\Big\{X67,\ \text{ISOGONAL CONJUGATE OF } X(23),\ X79,\ \text{ISOGONAL CONJUGATE OF } X(35),\ \frac{1}{(2r+3R)^2\left(-l^2+r^2+4rR\right)^2\left(-2l^2+2r^2+8rR+9R^2\right)}$$
$$R\left(-30l^8r+64l^6r^3-36l^4r^5+2r^9-9l^8R+388l^6r^2R-378l^4r^4R-36l^2r^6R+35r^8R+318l^6rR^2-1530l^4r^3R^2+18l^2r^5R^2+234r^7R^2+36l^6R^3-1944l^4r^2R^3+972l^2r^4R^3+728r^6R^3-648l^4rR^4+2268l^2r^3R^4+956r^5R^4+1188l^2r^2R^5+96r^4R^5-576r^3R^6\right)\Big\}$$

$$\Big\{X67,\ \text{ISOGONAL CONJUGATE OF } X(23),\ X80,\ \text{REFLECTION OF INCENTER IN FEUERBACH POINT},$$
$$-\Big(\Big(R\left(-l^8+18l^4r^4-32l^2r^6+15r^8+22l^6rR-42l^4r^3R-150l^2r^5R+170r^7R+4l^6R^2-96l^4r^2R^2-108l^2r^4R^2+680r^6R^2-72l^4rR^3+196l^2r^3R^3+1116r^5R^3+132l^2r^2R^4+608r^4R^4-64r^3R^5\right)\Big)\Big/\Big((2r-R)\left(-l^2+r^2+4rR\right)^2\left(-2l^2+2r^2+8rR+9R^2\right)\Big)\Big)\Big\}$$

$$\Big\{X67,\ \text{ISOGONAL CONJUGATE OF } X(23),\ X81,\ \text{CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},\ \frac{1}{\left(l^2-r^2-4rR\right)^2\left(l^2-r^2-rR\right)^2\left(2l^2-2r^2-8rR-9R^2\right)}$$
$$\left(l^{12}+14l^{10}r^2-65l^8r^4+100l^6r^6-65l^4r^8+14l^2r^{10}+r^{12}-21l^{10}rR-139l^8r^3R+522l^6r^5R-522l^4r^7R+139l^2r^9R+21r^{11}R-4l^{10}R^2+10l^8r^2R^2+888l^6r^4R^2-1604l^4r^6R^2+524l^2r^8R^2+186r^{10}R^2+68l^8rR^3+552l^6r^3R^3-2456l^4r^5R^3+936l^2r^7R^3+900r^9R^3-25l^6r^2R^4-1953l^4r^4R^4+817l^2r^6R^4+2569r^8R^4-644l^4r^3R^5+392l^2r^5R^5+4332r^7R^5+220l^2r^4R^6+4016r^6R^6+1600r^5R^7\right)\Big\}$$

$$\Big\{X67,\ \text{ISOGONAL CONJUGATE OF } X(23),\ X82,\ \text{ISOGONAL CONJUGATE OF } X(38),$$
$$\Big(l^{16}+12l^{14}r^2-160l^{12}r^4+636l^{10}r^6-1222l^8r^8+1252l^6r^{10}-664l^4r^{12}+148l^2r^{14}-3r^{16}-37l^{14}rR-281l^{12}r^3R+3423l^{10}r^5R-11045l^8r^7R+16049l^6r^9R-11115l^4r^{11}R+3093l^2r^{13}R-87r^{15}R-4l^{14}R^2+458l^{12}r^2R^2+3956l^{10}r^4R^2-33814l^8r^6R^2+79460l^6r^8R^2-76658l^4r^{10}R^2+27692l^2r^{12}R^2-1090r^{14}R^2+132l^{12}rR^3-2426l^{10}r^3R^3-35694l^8r^5R^3+186196l^6r^7R^3-278544l^4r^9R^3+138022l^2r^{11}R^3-7686r^{13}R^3-1529l^{10}r^2R^4+973l^8r^4R^4+194974l^6r^6R^4-560782l^4r^8R^4+414939l^2r^{10}R^4-33215r^{12}R^4+8188l^8r^3R^5+52968l^6r^5R^5-589712l^4r^7R^5+756920l^2r^9R^5-89292r^{11}R^5-18196l^6r^4R^6-251144l^4r^6R^6+789036l^2r^8R^6-142688r^{10}R^6-1696l^4r^5R^7+392160l^2r^7R^7-114560r^9R^7+47040l^2r^6R^8-15104r^8R^8+25600r^7R^9\Big)\Big/\Big(\left(l^2-r^2-4rR\right)^2\left(2l^2-2r^2-8rR-9R^2\right)\left(l^4-4l^2r^2+3r^4-9l^2rR+19r^3R+28r^2R^2\right)^2\Big)\Big\}$$

$$\Big\{X67,\ \text{ISOGONAL CONJUGATE OF } X(23),\ X83,\ \text{CEVAPOINT OF CENTROID AND SYMMEDIAN POINT},$$
$$\Big(12l^{16}+256l^{14}r^2-1584l^{12}r^4+3840l^{10}r^6-5048l^8r^8+3840l^6r^{10}-1584l^4r^{12}+256l^2r^{14}+12r^{16}-384l^{14}rR-5760l^{12}r^3R+31104l^{10}r^5R-61824l^8r^7R+61824l^6r^9R-31104l^4r^{11}R+5760l^2r^{13}R+384r^{15}R-49l^{14}R^2+2923l^{12}r^2R^2+62823l^{10}r^4R^2-258613l^8r^6R^2+382261l^6r^8R^2-249447l^4r^{10}R^2+54677l^2r^{12}R^2+5425r^{14}R^2+1372l^{12}rR^3+4680l^{10}r^3R^3-410396l^8r^5R^3+1126384l^6r^7R^3-1047324l^4r^9R^3+283208l^2r^{11}R^3+44380r^{13}R^3-11172l^{10}r^2R^4-165696l^8r^4R^4+1578600l^6r^6R^4-2444208l^4r^8R^4+861852l^2r^{10}R^4+231504r^{12}R^4+25088l^8r^3R^5+872512l^6r^5R^5-3078336l^4r^7R^5+1533376l^2r^9R^5+797888r^{11}R^5+68992l^6r^4R^6-1814016l^4r^6R^6+1459072l^2r^8R^6+1815296r^{10}R^6-301056l^4r^5R^7+537600l^2r^7R^7+2626560r^9R^7-50176l^2r^6R^8+2191360r^8R^8+802816r^7R^9\Big)\Big/\Big(\left(l^2-r^2-4rR\right)^2\left(2l^2-2r^2-8rR-9R^2\right)\left(5l^4-6l^2r^2+5r^4-40l^2rR+40r^3R+80r^2R^2\right)^2\Big)\Big\}$$

$$\Big\{X67,\ \text{ISOGONAL CONJUGATE OF } X(23),\ X84,$$
$$\text{ISOGONAL CONJUGATE OF } X(40),\ -\frac{1}{r^2\left(-l^2+r^2+4\,r\,R\right)^2\left(-2\,l^2+2\,r^2+8\,r\,R+9\,R^2\right)}$$
$$\left(-3\,l^8\,r^2+20\,l^6\,r^4-30\,l^4\,r^6+12\,l^2\,r^8+r^{10}+10\,l^8\,r\,R-18\,l^6\,r^3\,R-66\,l^4\,r^5\,R+50\,l^2\,r^7\,R+24\,r^9\,R-8\,l^8\,R^2-96\,l^6\,r^2\,R^2+276\,l^4\,r^4\,R^2-208\,l^2\,r^6\,R^2+228\,r^8\,R^2+52\,l^6\,r\,R^3+588\,l^4\,r^3\,R^3-1392\,l^2\,r^5\,R^3+1104\,r^7\,R^3+68\,l^6\,R^4-144\,l^4\,r^2\,R^4-2104\,l^2\,r^4\,R^4+2848\,r^6\,R^4-672\,l^4\,r\,R^5+128\,l^2\,r^3\,R^5+3456\,r^5\,R^5-144\,l^4\,R^6+2400\,l^2\,r^2\,R^6+368\,r^4\,R^6+1152\,l^2\,r\,R^7-3200\,r^3\,R^7-2304\,r^2\,R^8\right)\Big\}$$

$$\Big\{X67,\ \text{ISOGONAL CONJUGATE OF } X(23),\ X85,\ \text{ISOTOMIC CONJUGATE OF } X(9),$$
$$-\Big(\Big(R\left(8\,l^{10}\,r-128\,l^8\,r^3+240\,l^6\,r^5-128\,l^4\,r^7+8\,l^2\,r^9+17\,l^{10}\,R-717\,l^8\,r^2\,R+2482\,l^6\,r^4\,R-1970\,l^4\,r^6\,R+189\,l^2\,r^8\,R-r^{10}\,R-1116\,l^8\,r\,R^2+9376\,l^6\,r^3\,R^2-12\,264\,l^4\,r^5\,R^2+1920\,l^2\,r^7\,R^2-28\,r^9\,R^2-320\,l^8\,R^3+15\,396\,l^6\,r^2\,R^3-39\,464\,l^4\,r^4\,R^3+10\,852\,l^2\,r^6\,R^3-336\,r^8\,R^3+9664\,l^6\,r\,R^4-68\,672\,l^4\,r^3\,R^4+36\,672\,l^2\,r^5\,R^4-2240\,r^7\,R^4+1024\,l^6\,R^5-59\,520\,l^4\,r^2\,R^5+73\,344\,l^2\,r^4\,R^5-8960\,r^6\,R^5-18\,432\,l^4\,r\,R^6+78\,848\,l^2\,r^3\,R^6-21\,504\,r^5\,R^6+33\,792\,l^2\,r^2\,R^7-28\,672\,r^4\,R^7-16\,384\,r^3\,R^8\right)\Big)\Big/\left(\left(l^2-r^2-4\,r\,R\right)^2\left(2\,l^2-2\,r^2-8\,r\,R-9\,R^2\right)\left(l^2+r^2+8\,r\,R+16\,R^2\right)^2\right)\Big)\Big\}$$

$$\Big\{X67,\ \text{ISOGONAL CONJUGATE OF } X(23),\ X86,\ \text{CEVAPOINT OF INCENTER AND CENTROID},$$
$$\frac{1}{\left(l^2-r^2-4\,r\,R\right)^2\left(5\,l^2+r^2+4\,r\,R\right)^2\left(2\,l^2-2\,r^2-8\,r\,R-9\,R^2\right)}$$
$$\left(12\,l^{12}+252\,l^{10}\,r^2-536\,l^8\,r^4+264\,l^6\,r^6+12\,l^4\,r^8-4\,l^2\,r^{10}-208\,l^{10}\,r\,R-1792\,l^8\,r^3\,R+1824\,l^6\,r^5\,R+256\,l^4\,r^7\,R-80\,l^2\,r^9\,R-49\,l^{10}\,R^2-1035\,l^8\,r^2\,R^2+4790\,l^6\,r^4\,R^2+1546\,l^4\,r^6\,R^2-645\,l^2\,r^8\,R^2+r^{10}\,R^2+644\,l^8\,r\,R^3+6112\,l^6\,r^3\,R^3+3528\,l^4\,r^5\,R^3-2688\,l^2\,r^7\,R^3+20\,r^9\,R^3+2252\,l^6\,r^2\,R^4+2680\,l^4\,r^4\,R^4-6068\,l^2\,r^6\,R^4+160\,r^8\,R^4-32\,l^4\,r^3\,R^5-6816\,l^2\,r^5\,R^5+640\,r^7\,R^5-2624\,l^2\,r^4\,R^6+1280\,r^6\,R^6+1024\,r^5\,R^7\right)\Big\}$$

$$\Big\{X67,\ \text{ISOGONAL CONJUGATE OF } X(23),\ X87,\ X(2)\text{-CROSS CONJUGATE OF } X(1),$$
$$\Big(l^{16}+16\,l^{14}\,r^2+24\,l^{12}\,r^4-24\,l^{10}\,r^6-54\,l^8\,r^8+32\,l^4\,r^{12}+8\,l^2\,r^{14}-3\,r^{16}-50\,l^{14}\,r\,R-678\,l^{12}\,r^3\,R+206\,l^{10}\,r^5\,R+874\,l^8\,r^7\,R-646\,l^6\,r^9\,R-98\,l^4\,r^{11}\,R+490\,l^2\,r^{13}\,R-98\,r^{15}\,R-4\,l^{14}\,R^2+824\,l^{12}\,r^2\,R^2+10\,012\,l^{10}\,r^4\,R^2-16\,936\,l^8\,r^6\,R^2+15\,924\,l^6\,r^8\,R^2-13\,816\,l^4\,r^{10}\,R^2+8372\,l^2\,r^{12}\,R^2-1304\,r^{14}\,R^2+184\,l^{12}\,r\,R^3-3764\,l^{10}\,r^3\,R^3-67\,524\,l^8\,r^5\,R^3+131\,672\,l^6\,r^7\,R^3-124\,464\,l^4\,r^9\,R^3+64\,348\,l^2\,r^{11}\,R^3-9156\,r^{13}\,R^3-2852\,l^{10}\,r^2\,R^4-22\,528\,l^8\,r^4\,R^4+295\,048\,l^6\,r^6\,R^4-440\,016\,l^4\,r^8\,R^4+258\,172\,l^2\,r^{10}\,R^4-35\,664\,r^{12}\,R^4+14\,880\,l^8\,r^3\,R^5+207\,712\,l^6\,r^5\,R^5-720\,928\,l^4\,r^7\,R^5+558\,624\,l^2\,r^9\,R^5-67\,712\,r^{11}\,R^5+8128\,l^6\,r^4\,R^6-534\,656\,l^4\,r^6\,R^6+615\,872\,l^2\,r^8\,R^6-512\,r^{10}\,R^6-123\,904\,l^4\,r^5\,R^7+276\,480\,l^2\,r^7\,R^7+257\,024\,r^9\,R^7+16\,384\,l^2\,r^6\,R^8+454\,656\,r^8\,R^8+262\,144\,r^7\,R^9\Big)\Big/\left(\left(l^2-r^2-4\,r\,R\right)^2\left(2\,l^2-2\,r^2-8\,r\,R-9\,R^2\right)\left(l^4+2\,l^2\,r^2+r^4-20\,l^2\,r\,R+12\,r^3\,R+32\,r^2\,R^2\right)^2\right)\Big\}$$

$$\Big\{X67,\ \text{ISOGONAL CONJUGATE OF } X(23),\ X88,\ \text{ISOGONAL CONJUGATE OF } X(44),$$
$$\frac{1}{\left(l^2+3\,r^2-15\,r\,R\right)^2\left(l^2-r^2-4\,r\,R\right)^2\left(2\,l^2-2\,r^2-8\,r\,R-9\,R^2\right)}$$
$$\left(l^{12}+6\,l^{10}\,r^2+39\,l^8\,r^4+20\,l^6\,r^6-177\,l^4\,r^8+102\,l^2\,r^{10}+9\,r^{12}-43\,l^{10}\,r\,R-201\,l^8\,r^3\,R-858\,l^6\,r^5\,R+1090\,l^4\,r^7\,R-123\,l^2\,r^9\,R+135\,r^{11}\,R-4\,l^{10}\,R^2+618\,l^8\,r^2\,R^2+2016\,l^6\,r^4\,R^2+3316\,l^4\,r^6\,R^2-3612\,l^2\,r^8\,R^2+738\,r^{10}\,R^2+156\,l^8\,r\,R^3-2944\,l^6\,r^3\,R^3-4824\,l^4\,r^5\,R^3-6480\,l^2\,r^7\,R^3+1548\,r^9\,R^3-1977\,l^6\,r^2\,R^4-1985\,l^4\,r^4\,R^4+7329\,l^2\,r^6\,R^4-423\,r^8\,R^4+7804\,l^4\,r^3\,R^5+19\,176\,l^2\,r^5\,R^5-6228\,r^7\,R^5+4380\,l^2\,r^4\,R^6-6480\,r^6\,R^6+576\,r^5\,R^7\right)\Big\}$$

$$\Big\{X67,\ \text{ISOGONAL CONJUGATE OF } X(23),\ X89,\ \text{ISOGONAL CONJUGATE OF } X(45),$$
$$\frac{1}{\left(l^2-r^2-4\,r\,R\right)^2\left(2\,l^2-6\,r^2+3\,r\,R\right)^2\left(2\,l^2-2\,r^2-8\,r\,R-9\,R^2\right)}$$
$$\left(4\,l^{12}+72\,l^{10}\,r^2-612\,l^8\,r^4+1520\,l^6\,r^6-1476\,l^4\,r^8+456\,l^2\,r^{10}+36\,r^{12}-58\,l^{10}\,r\,R-546\,l^8\,r^3\,R+4308\,l^6\,r^5\,R-7580\,l^4\,r^7\,R+3174\,l^2\,r^9\,R+702\,r^{11}\,R-16\,l^{10}\,R^2-558\,l^8\,r^2\,R^2+4824\,l^6\,r^4\,R^2-12\,188\,l^4\,r^6\,R^2+5304\,l^2\,r^8\,R^2+5706\,r^{10}\,R^2+168\,l^8\,r\,R^3+3416\,l^6\,r^3\,R^3-8544\,l^4\,r^5\,R^3-7992\,l^2\,r^7\,R^3+24\,984\,r^9\,R^3+1623\,l^6\,r^2\,R^4-2465\,l^4\,r^4\,R^4-34\,383\,l^2\,r^6\,R^4+63\,513\,r^8\,R^4-2516\,l^4\,r^3\,R^5-39\,624\,l^2\,r^5\,R^5+93\,996\,r^7\,R^5-16\,548\,l^2\,r^4\,R^6+76\,464\,r^6\,R^6+28\,224\,r^5\,R^7\right)\Big\}$$

$$\left\{X67,\ \text{ISOGONAL CONJUGATE OF } X(23),\ X90,\ X(3)\text{-CROSS CONJUGATE OF } X(1),\right.$$

$$-\frac{1}{\left(l^2-r^2-4\,r\,R\right)^2\left(2\,l^2-2\,r^2-8\,r\,R-9\,R^2\right)\left(r^2+2\,r\,R-R^2\right)^2}$$

$$\left(3\,l^8\,r^4-20\,l^6\,r^6+30\,l^4\,r^8-12\,l^2\,r^{10}-r^{12}-2\,l^8\,r^3\,R-54\,l^6\,r^5\,R+186\,l^4\,r^7\,R-106\,l^2\,r^9\,R-\right.$$
$$24\,r^{11}\,R-2\,l^8\,r^2\,R^2+44\,l^6\,r^4\,R^2+228\,l^4\,r^6\,R^2-220\,l^2\,r^8\,R^2-242\,r^{10}\,R^2+2\,l^8\,r\,R^3+68\,l^6\,r^3\,R^3-$$
$$384\,l^4\,r^5\,R^3+520\,l^2\,r^7\,R^3-1326\,r^9\,R^3-l^8\,R^4-36\,l^6\,r^2\,R^4-666\,l^4\,r^4\,R^4+2616\,l^2\,r^6\,R^4-$$
$$4245\,r^8\,R^4+14\,l^6\,r\,R^5-54\,l^4\,r^3\,R^5+3242\,l^2\,r^5\,R^5-7858\,r^7\,R^5+4\,l^6\,R^6+48\,l^4\,r^2\,R^6+$$
$$\left.\left.964\,l^2\,r^4\,R^6-7536\,r^6\,R^6-72\,l^4\,r\,R^7-68\,l^2\,r^3\,R^7-2340\,r^5\,R^7+132\,l^2\,r^2\,R^8+736\,r^4\,R^8-64\,r^3\,R^9\right)\right\}$$

$$\left\{X67,\ \text{ISOGONAL CONJUGATE OF } X(23),\ X91,\ \text{ISOGONAL CONJUGATE OF } X(47),\right.$$

$$\left(R\left(l^{12}\,r-22\,l^{10}\,r^3+127\,l^8\,r^5-212\,l^6\,r^7+127\,l^4\,r^9-22\,l^2\,r^{11}+r^{13}+l^{12}\,R-37\,l^{10}\,r^2\,R+454\,l^8\,r^4\,R-\right.\right.$$
$$1706\,l^6\,r^6\,R+1693\,l^4\,r^8\,R-433\,l^2\,r^{10}\,R+28\,r^{12}\,R-38\,l^{10}\,r\,R^2+744\,l^8\,r^3\,R^2-4664\,l^6\,r^5\,R^2+$$
$$8492\,l^4\,r^7\,R^2-3522\,l^2\,r^9\,R^2+332\,r^{11}\,R^2-8\,l^{10}\,R^3+532\,l^8\,r^2\,R^3-6216\,l^6\,r^4\,R^3+20\,796\,l^4\,r^6\,R^3-$$
$$15\,128\,l^2\,r^8\,R^3+2184\,r^{10}\,R^3+228\,l^8\,r\,R^4-4796\,l^6\,r^3\,R^4+27\,364\,l^4\,r^5\,R^4-37\,012\,l^2\,r^7\,R^4+$$
$$8744\,r^9\,R^4+20\,l^8\,R^5-1968\,l^6\,r^2\,R^5+20\,564\,l^4\,r^4\,R^5-52\,232\,l^2\,r^6\,R^5+21\,920\,r^8\,R^5-456\,l^6\,r\,R^6+$$
$$9392\,l^4\,r^3\,R^6-41\,752\,l^2\,r^5\,R^6+33\,968\,r^7\,R^6-16\,l^6\,R^7+2304\,l^4\,r^2\,R^7-18\,624\,l^2\,r^4\,R^7+$$
$$\left.\left.30\,752\,r^6\,R^7+288\,l^4\,r\,R^8-4880\,l^2\,r^3\,R^8+14\,352\,r^5\,R^8-528\,l^2\,r^2\,R^9+2688\,r^4\,R^9+256\,r^3\,R^{10}\right)\right)\Big/$$
$$\left.\left(\left(l^2-r^2-4\,r\,R\right)^2\left(2\,l^2-2\,r^2-8\,r\,R-9\,R^2\right)\left(l^2\,r+r^3-l^2\,R+3\,r^2\,R+2\,r\,R^2+2\,R^3\right)^2\right)\right\}$$

$$\left\{X67,\ \text{ISOGONAL CONJUGATE OF } X(23),\ X92,\ \text{CEVAPOINT OF INCENTER AND CLAWSON POINT},\right.$$

$$-\frac{1}{\left(l^2-r^2-4\,r\,R\right)^2\left(2\,l^2-2\,r^2-8\,r\,R-9\,R^2\right)\left(l^2+r^2-4\,R^2\right)^2}$$

$$R\left(4\,l^{10}\,r-68\,l^8\,r^3+184\,l^6\,r^5-184\,l^4\,r^7+68\,l^2\,r^9-4\,r^{11}+l^{10}\,R-181\,l^8\,r^2\,R+1362\,l^6\,r^4\,R-\right.$$
$$2146\,l^4\,r^6\,R+1069\,l^2\,r^8\,R-105\,r^{10}\,R-76\,l^8\,r\,R^2+2888\,l^6\,r^3\,R^2-9600\,l^4\,r^5\,R^2+7384\,l^2\,r^7\,R^2-$$
$$1172\,r^9\,R^2-8\,l^8\,R^3+1892\,l^6\,r^2\,R^3-19\,912\,l^4\,r^4\,R^3+27\,940\,l^2\,r^6\,R^3-7272\,r^8\,R^3+384\,l^6\,r\,R^4-$$
$$18\,688\,l^4\,r^3\,R^4+60\,352\,l^2\,r^5\,R^4-27\,456\,r^7\,R^4+16\,l^6\,R^5-6288\,l^4\,r^2\,R^5+71\,632\,l^2\,r^4\,R^5-$$
$$\left.\left.64\,656\,r^6\,R^5-576\,l^4\,r\,R^6+40\,448\,l^2\,r^3\,R^6-92\,864\,r^5\,R^6+6720\,l^2\,r^2\,R^7-74\,496\,r^4\,R^7-25\,600\,r^3\,R^8\right)\right\}$$

$$\left\{X67,\ \text{ISOGONAL CONJUGATE OF } X(23),\ X93,\ \text{ISOGONAL CONJUGATE OF } X(49),\right.$$

$$\left(R^2\left(l^{14}-35\,l^{12}\,r^2+401\,l^{10}\,r^4-1611\,l^8\,r^6+1611\,l^6\,r^8-401\,l^4\,r^{10}+35\,l^2\,r^{12}-r^{14}-28\,l^{12}\,r\,R+\right.\right.$$
$$728\,l^{10}\,r^3\,R-5540\,l^8\,r^5\,R+11\,984\,l^6\,r^7\,R-5540\,l^4\,r^9\,R+728\,l^2\,r^{11}\,R-28\,r^{13}\,R-6\,l^{12}\,R^2+$$
$$464\,l^{10}\,r^2\,R^2-7002\,l^8\,r^4\,R^2+31\,488\,l^6\,r^6\,R^2-29\,162\,l^4\,r^8\,R^2+6288\,l^2\,r^{10}\,R^2-342\,r^{12}\,R^2+$$
$$144\,l^{10}\,r\,R^3-4432\,l^8\,r^3\,R^3+35\,808\,l^6\,r^5\,R^3-73\,568\,l^4\,r^7\,R^3+29\,072\,l^2\,r^9\,R^3-2384\,r^{11}\,R^3-6\,l^{10}\,R^4-$$
$$1090\,l^8\,r^2\,R^4+17\,636\,l^6\,r^4\,R^4-89\,252\,l^4\,r^6\,R^4+76\,962\,l^2\,r^8\,R^4-10\,394\,r^{10}\,R^4+120\,l^8\,r\,R^5+$$
$$3360\,l^6\,r^3\,R^5-40\,112\,l^4\,r^5\,R^5+113\,952\,l^2\,r^7\,R^5-29\,064\,r^9\,R^5+98\,l^8\,R^6-1016\,l^6\,r^2\,R^6+6348\,l^4\,r^4\,R^6+$$
$$80\,008\,l^2\,r^6\,R^6-50\,654\,r^8\,R^6-1568\,l^6\,r\,R^7+5856\,l^4\,r^3\,R^7+6688\,l^2\,r^5\,R^7-47\,840\,r^7\,R^7-159\,l^6\,R^8+$$
$$57\,l^4\,r^2\,R^8-11\,769\,l^2\,r^4\,R^8-7329\,r^6\,R^8+1908\,l^4\,r\,R^9+10\,408\,l^2\,r^3\,R^9+33\,140\,r^5\,R^9-36\,l^4\,R^{10}+$$
$$\left.\left.10\,692\,l^2\,r^2\,R^{10}+32\,684\,r^4\,R^{10}+288\,l^2\,r\,R^{11}+9888\,r^3\,R^{11}-576\,r^2\,R^{12}\right)\right)\Big/\left(\left(l^2-r^2-4\,r\,R\right)^2\right.$$
$$\left.\left.\left(2\,l^2-2\,r^2-8\,r\,R-9\,R^2\right)\left(l^4+2\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-8\,l^2\,R^2+24\,r^2\,R^2+32\,r\,R^3+13\,R^4\right)^2\right)\right\}$$

$$\left\{X67,\ \text{ISOGONAL CONJUGATE OF } X(23),\ X94,\ \text{ISOGONAL CONJUGATE OF } X(50),\right.$$

$$\left(R^2\left(5\,l^{14}-95\,l^{12}\,r^2+453\,l^{10}\,r^4-1495\,l^8\,r^6+1495\,l^6\,r^8-453\,l^4\,r^{10}+95\,l^2\,r^{12}-5\,r^{14}-140\,l^{12}\,r\,R+\right.\right.$$
$$2040\,l^{10}\,r^3\,R-7476\,l^8\,r^5\,R+13\,456\,l^6\,r^7\,R-7476\,l^4\,r^9\,R+2040\,l^2\,r^{11}\,R-140\,r^{13}\,R-30\,l^{12}\,R^2+$$
$$2400\,l^{10}\,r^2\,R^2-18\,306\,l^8\,r^4\,R^2+48\,864\,l^6\,r^6\,R^2-48\,210\,l^4\,r^8\,R^2+18\,720\,l^2\,r^{10}\,R^2-1710\,r^{12}\,R^2+$$
$$720\,l^{10}\,r\,R^3-23\,440\,l^8\,r^3\,R^3+97\,888\,l^6\,r^5\,R^3-161\,760\,l^4\,r^7\,R^3+95\,440\,l^2\,r^9\,R^3-11\,920\,r^{11}\,R^3-$$
$$36\,l^{10}\,R^4-11\,340\,l^8\,r^2\,R^4+122\,488\,l^6\,r^4\,R^4-318\,264\,l^4\,r^6\,R^4+295\,980\,l^2\,r^8\,R^4-51\,964\,r^{10}\,R^4+$$
$$720\,l^8\,r\,R^5+87\,360\,l^6\,r^3\,R^5-398\,112\,l^4\,r^5\,R^5+578\,880\,l^2\,r^7\,R^5-145\,200\,r^9\,R^5+486\,l^8\,R^6+$$
$$19\,512\,l^6\,r^2\,R^6-333\,468\,l^4\,r^4\,R^6+727\,352\,l^2\,r^6\,R^6-252\,314\,r^8\,R^6-7776\,l^6\,r\,R^7-171\,360\,l^4\,r^3\,R^7+$$
$$609\,120\,l^2\,r^5\,R^7-235\,424\,r^7\,R^7-729\,l^6\,R^8-29\,889\,l^4\,r^2\,R^8+372\,609\,l^2\,r^4\,R^8-29\,415\,r^6\,R^8+$$
$$\left.\left.8748\,l^4\,r\,R^9+173\,016\,l^2\,r^3\,R^9+170\,028\,r^5\,R^9+43\,740\,l^2\,r^2\,R^{10}+159\,408\,r^4\,R^{10}+46\,656\,r^3\,R^{11}\right)\right)\Big/$$
$$\left.\left(\left(l^2-r^2-4\,r\,R\right)^2\left(2\,l^2-2\,r^2-8\,r\,R-9\,R^2\right)\right.\right.$$
$$\left.\left.\left(l^4+2\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-12\,l^2\,R^2+28\,r^2\,R^2+48\,r\,R^3+27\,R^4\right)^2\right)\right\}$$

$$\{X67,\ \text{ISOGONAL CONJUGATE OF } X(23),\ X95,\ \text{CEVAPOINT OF CENTROID AND CIRCUMCENTER},$$
$$-\Big(\big(16 l^{14} r^2 + 32 l^{12} r^4 - 4112 l^{10} r^6 + 8128 l^8 r^8 - 4112 l^6 r^{10} + 32 l^4 r^{12} + 16 l^2 r^{14} - 384 l^{12} r^3 R -$$
$$128 l^{10} r^5 R + 33024 l^8 r^7 R - 33024 l^6 r^9 R + 128 l^4 r^{11} R + 384 l^2 r^{13} R + l^{14} R^2 - 107 l^{12} r^2 R^2 +$$
$$2233 l^{10} r^4 R^2 + 28197 l^8 r^6 R^2 - 94245 l^6 r^8 R^2 - 1465 l^4 r^{10} R^2 + 3947 l^2 r^{12} R^2 - r^{14} R^2 -$$
$$28 l^{12} r R^3 + 2168 l^{10} r^3 R^3 - 3364 l^8 r^5 R^3 - 113520 l^6 r^7 R^3 - 11556 l^4 r^9 R^3 + 22648 l^2 r^{11} R^3 -$$
$$28 r^{13} R^3 - 8 l^{12} R^4 + 372 l^{10} r^2 R^4 - 6712 l^8 r^4 R^4 - 54536 l^6 r^6 R^4 - 28360 l^4 r^8 R^4 +$$
$$79156 l^2 r^{10} R^4 - 344 r^{12} R^4 + 192 l^{10} r R^5 - 3008 l^8 r^3 R^5 - 14016 l^6 r^5 R^5 - 16576 l^4 r^7 R^5 +$$
$$172032 l^2 r^9 R^5 - 2432 r^{11} R^5 + 16 l^{10} R^6 - 944 l^8 r^2 R^6 - 4800 l^6 r^4 R^6 + 32832 l^4 r^6 R^6 +$$
$$225968 l^2 r^8 R^6 - 10896 r^{10} R^6 - 320 l^8 r R^7 - 1152 l^6 r^3 R^7 + 43392 l^4 r^5 R^7 + 161664 l^2 r^7 R^7 -$$
$$32064 r^9 R^7 + 832 l^6 r^2 R^8 + 15744 l^4 r^4 R^8 + 42304 l^2 r^6 R^8 - 61952 r^8 R^8 + 3584 l^4 r^3 R^9 -$$
$$11776 l^2 r^5 R^9 - 75776 r^7 R^9 - 7168 l^2 r^4 R^{10} - 53248 r^6 R^{10} - 16384 r^5 R^{11}\big) \Big/ \Big(\big(l^2 - r^2 - 4 r R\big)^2$$
$$\big(2 l^2 - 2 r^2 - 8 r R - 9 R^2\big)\ \big(l^4 + 18 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 4 l^2 R^2 + 20 r^2 R^2 + 16 r R^3\big)^2\Big)\Big)\}$$

$$\{X67,\ \text{ISOGONAL CONJUGATE OF } X(23),\ X96,\ \text{ISOGONAL CONJUGATE OF } X(52),$$
$$-\Big(\big(2 l^{16} - 72 l^{14} r^2 + 872 l^{12} r^4 - 4024 l^{10} r^6 + 6444 l^8 r^8 - 4024 l^6 r^{10} + 872 l^4 r^{12} - 72 l^2 r^{14} + 2 r^{16} -$$
$$64 l^{14} r R + 1792 l^{12} r^3 R - 15744 l^{10} r^5 R + 47936 l^8 r^7 R - 47936 l^6 r^9 R + 15744 l^4 r^{11} R -$$
$$1792 l^2 r^{13} R + 64 r^{15} R - 37 l^{14} R^2 + 1847 l^{12} r^2 R^2 - 27773 l^{10} r^4 R^2 + 144295 l^8 r^6 R^2 -$$
$$240167 l^6 r^8 R^2 + 122237 l^4 r^{10} R^2 - 19767 l^2 r^{12} R^2 + 933 r^{14} R^2 + 1036 l^{12} r R^3 - 27224 l^{10} r^3 R^3 +$$
$$235060 l^8 r^5 R^3 - 661200 l^6 r^7 R^3 + 537140 l^4 r^9 R^3 - 127576 l^2 r^{11} R^3 + 8204 r^{13} R^3 +$$
$$244 l^{12} R^4 - 16532 l^{10} r^2 R^4 + 236076 l^8 r^4 R^4 - 1103992 l^6 r^6 R^4 + 1478396 l^4 r^8 R^4 -$$
$$535380 l^2 r^{10} R^4 + 48516 r^{12} R^4 - 5856 l^{10} r R^5 + 154336 l^8 r^3 R^5 - 1179392 l^6 r^5 R^5 +$$
$$2663552 l^4 r^7 R^5 - 1533984 l^2 r^9 R^5 + 203424 r^{11} R^5 - 776 l^{10} R^6 + 65128 l^8 r^2 R^6 -$$
$$840400 l^6 r^4 R^6 + 3199184 l^4 r^6 R^6 - 3062312 l^2 r^8 R^6 + 620232 r^{10} R^6 + 15520 l^8 r R^7 -$$
$$406656 l^6 r^3 R^7 + 2588096 l^4 r^5 R^7 - 4268160 l^2 r^7 R^7 + 1385632 r^9 R^7 + 1344 l^8 R^8 -$$
$$127136 l^6 r^2 R^8 + 1431360 l^4 r^4 R^8 - 4114080 l^2 r^6 R^8 + 2254400 r^8 R^8 - 21504 l^6 r R^9 +$$
$$541952 l^4 r^3 R^9 - 2709760 l^2 r^5 R^9 + 2623488 r^7 R^9 - 1296 l^6 R^{10} + 130032 l^4 r^2 R^{10} -$$
$$1213936 l^2 r^4 R^{10} + 2123024 r^6 R^{10} + 15552 l^4 r R^{11} - 363648 l^2 r^3 R^{11} + 1154240 r^5 R^{11} +$$
$$576 l^4 R^{12} - 65088 l^2 r^2 R^{12} + 406848 r^4 R^{12} - 4608 l^2 r R^{13} + 87552 r^3 R^{13} + 9216 r^2 R^{14}\big) \Big/$$
$$\Big(\big(l^2 - r^2 - 4 r R\big)^2\ \big(2 l^2 - 2 r^2 - 8 r R - 9 R^2\big)\ \big(l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2 - 4 R^4\big)^2\Big)\Big)\}$$

$$\{X67,\ \text{ISOGONAL CONJUGATE OF } X(23),\ X97,\ \text{ISOGONAL CONJUGATE OF } X(53),$$
$$\big(l^{16} + 12 l^{14} r^2 - 236 l^{12} r^4 + 1012 l^{10} r^6 - 1578 l^8 r^8 + 1012 l^6 r^{10} - 236 l^4 r^{12} + 12 l^2 r^{14} +$$
$$r^{16} - 32 l^{14} r R - 256 l^{12} r^3 R + 4032 l^{10} r^5 R - 12128 l^8 r^7 R + 12128 l^6 r^9 R - 4032 l^4 r^{11} R +$$
$$256 l^2 r^{13} R + 32 r^{15} R - 15 l^{14} R^2 + 121 l^{12} r^2 R^2 + 5765 l^{10} r^4 R^2 - 36675 l^8 r^6 R^2 + 60931 l^6 r^8 R^2 -$$
$$29957 l^4 r^{10} R^2 + 2439 l^2 r^{12} R^2 + 463 r^{14} R^2 + 420 l^{12} r R^3 + 2536 l^{10} r^3 R^3 - 57636 l^8 r^5 R^3 +$$
$$169264 l^6 r^7 R^3 - 127780 l^4 r^9 R^3 + 13800 l^2 r^{11} R^3 + 4004 r^{13} R^3 + 86 l^{12} R^4 - 1912 l^{10} r^2 R^4 -$$
$$47542 l^8 r^4 R^4 + 287248 l^6 r^6 R^4 - 348230 l^4 r^8 R^4 + 52168 l^2 r^{10} R^4 + 23046 r^{12} R^4 - 2064 l^{10} r R^5 -$$
$$14384 l^8 r^3 R^5 + 305056 l^6 r^5 R^5 - 638240 l^4 r^7 R^5 + 140912 l^2 r^9 R^5 + 93008 r^{11} R^5 - 233 l^{10} R^6 +$$
$$6417 l^8 r^2 R^6 + 192538 l^6 r^4 R^6 - 802650 l^4 r^6 R^6 + 283791 l^2 r^8 R^6 + 269961 r^{10} R^6 + 4660 l^8 r R^7 +$$
$$55936 l^6 r^3 R^7 - 684776 l^4 r^5 R^7 + 434816 l^2 r^7 R^7 + 568372 r^9 R^7 + 296 l^8 R^8 - 4372 l^6 r^2 R^8 -$$
$$373320 l^4 r^4 R^8 + 501996 l^2 r^6 R^8 + 863432 r^8 R^8 - 4736 l^6 r R^9 - 109408 l^4 r^3 R^9 + 416736 l^2 r^5 R^9 +$$
$$928000 r^7 R^9 - 144 l^6 R^{10} - 8304 l^4 r^2 R^{10} + 227120 l^2 r^4 R^{10} + 679056 r^6 R^{10} + 1728 l^4 r R^{11} +$$
$$69376 l^2 r^3 R^{11} + 316096 r^5 R^{11} + 8640 l^2 r^2 R^{12} + 82688 r^4 R^{12} + 9216 r^3 R^{13}\big) \Big/ \Big(\big(l^2 - r^2 - 4 r R\big)^2$$
$$\big(2 l^2 - 2 r^2 - 8 r R - 9 R^2\big)\ \big(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 7 l^2 R^2 + 23 r^2 R^2 + 28 r R^3 + 12 R^4\big)^2\Big)\}$$

$$\{X67,\ \text{ISOGONAL CONJUGATE OF } X(23),\ X98,\ \text{TarryPoint},$$
$$-\frac{1}{\big(l^2 - r^2 - 4 r R\big)^2}\big(l^6 - 7 l^4 r^2 + 7 l^2 r^4 - r^6 - 12 l^4 r R + 40 l^2 r^3 R -$$
$$12 r^5 R - 4 l^4 R^2 + 68 l^2 r^2 R^2 - 52 r^4 R^2 + 32 l^2 r R^3 - 96 r^3 R^3 - 64 r^2 R^4\big)\}$$

$$\{X67,\ \text{ISOGONAL CONJUGATE OF } X(23),\ X99,\ \text{STEINER POINT},$$
$$\big(16 l^6 r^2 - 32 l^4 r^4 + 16 l^2 r^6 - 128 l^4 r^3 R + 128 l^2 r^5 R - l^6 R^2 - 81 l^4 r^2 R^2 + 337 l^2 r^4 R^2 + r^6 R^2 + 12 l^4 r R^3 +$$
$$312 l^2 r^3 R^3 + 12 r^5 R^3 + 60 l^2 r^2 R^4 + 48 r^4 R^4 + 64 r^3 R^5\big) \Big/ \Big(\big(l^2 - r^2 - 4 r R\big)^2\ \big(2 l^2 - 2 r^2 - 8 r R - 9 R^2\big)\Big)\}$$

$$\Big\{X67,\ \text{ISOGONAL CONJUGATE OF } X(23),\ X100,$$

$$\text{ANTICOMPLEMENT OF FEUERBACH POINT},\ \frac{1}{(2r-R)\left(-l^2+r^2+4rR\right)^2\left(-2l^2+2r^2+8rR+9R^2\right)}$$

$$\left(2l^8r-32l^6r^3+60l^4r^5-32l^2r^7+2r^9-40l^6r^2R+312l^4r^4R-312l^2r^6R+40r^8R-12l^6rR^2+492l^4r^3R^2-1188l^2r^5R^2+324r^7R^2-l^6R^3+231l^4r^2R^3-2159l^2r^4R^3+1353r^6R^3+36l^4rR^4-1752l^2r^3R^4+3052r^5R^4-420l^2r^2R^5+3504r^4R^5+1600r^3R^6\right)\Big\}$$

$$\Big\{X68,\ \text{PRASOLOV POINT},\ X69,\ \text{SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},$$

$$-\Big(\Big(R^2\left(l^8+16l^6r^2-34l^4r^4+16l^2r^6+r^8-16l^6rR-112l^4r^3R+112l^2r^5R+16r^7R-4l^6R^2-148l^4r^2R^2+372l^2r^4R^2+100r^6R^2+48l^4rR^3+672l^2r^3R^3+304r^5R^3-4l^4R^4+584l^2r^2R^4+444r^4R^4+32l^2rR^5+224r^3R^5-64r^2R^6\right)\Big)\Big/\Big((1-r-2R)^2(1+r+2R)^2\left(l^2-r^2-4rR\right)^2\Big)\Big)\Big\}$$

$$\Big\{X68,\ \text{PRASOLOV POINT},\ X70,\ \text{ISOGONAL CONJUGATE OF } X(26),$$

$$\Big(R^6\left(l^8-16l^6r^2+30l^4r^4-16l^2r^6+r^8-16l^6rR+144l^4r^3R-144l^2r^5R+16r^7R-12l^6R^2+244l^4r^2R^2-532l^2r^4R^2+108r^6R^2+144l^4rR^3-992l^2r^3R^3+400r^5R^3+47l^4R^4-930l^2r^2R^4+879r^4R^4-376l^2rR^5+1144r^3R^5-68l^2R^6+820r^2R^6+272rR^7+36R^8\right)\Big)\Big/\Big((1-r-2R)^2(1+r+2R)^2\left(l^4-2l^2r^2+r^4-8l^2rR+8r^3R-6l^2R^2+22r^2R^2+24rR^3+7R^4\right)^2\Big)\Big\}$$

$$\Big\{X68,\ \text{PRASOLOV POINT},\ X71,\ \text{ISOGONAL CONJUGATE OF } X(27),$$

$$-\Big(\Big(\left(l^2+r^2+4rR+2R^2\right)^2\left(2l^6-8l^4r^2+6l^2r^4-24l^4rR+40l^2r^3R-17l^4R^2+102l^2r^2R^2-r^4R^2+116l^2rR^3-12r^3R^3+48l^2R^4-52r^2R^4-96rR^5-64R^6\right)\Big)\Big/\Big((1-r-2R)^2(1+r+2R)^2\left(l^2+r^2+6rR+8R^2\right)^2\Big)\Big)\Big\}$$

$$\Big\{X68,\ \text{PRASOLOV POINT},\ X72,\ \text{ISOGONAL CONJUGATE OF } X(28),$$

$$\Big((r+R)^2\left(-2l^4r+4l^2r^3-2r^5-l^4R+22l^2r^2R-21r^4R+36l^2rR^2-84r^3R^2+4l^2R^3-152r^2R^3-104rR^4+4R^5\right)\Big)\Big/\Big(R(-l+r+2R)^2(l+r+2R)^2\Big)\Big\}$$

$$\Big\{X68,\ \text{PRASOLOV POINT},\ X73,\ \text{CROSSPOINT OF INCENTER AND CIRCUMCENTER},$$

$$\Big(\left(l^2+r^2-2R^2\right)^2\left(6l^4r^2-8l^2r^4+2r^6-4l^4rR-32l^2r^3R+20r^5R+l^4R^2-30l^2r^2R^2+73r^4R^2+28l^2rR^3+108r^3R^3-8l^2R^4+28r^2R^4-48rR^5+16R^6\right)\Big)\Big/\Big((1-r-2R)^2(1+r+2R)^2\left(l^2+r^2-2rR-4R^2\right)^2\Big)\Big\}$$

$$\Big\{X68,\ \text{PRASOLOV POINT},\ X74,\ \text{ISOGONAL CONJUGATE OF EULER INFINITY POINT},$$

$$-\frac{\left(l^2-r^2-4rR-5R^2\right)^2\left(3l^4-10l^2r^2+3r^4-24l^2rR+24r^3R-20l^2R^2+68r^2R^2+80rR^3+36R^4\right)}{(1-r-2R)^2(1+r+2R)^2\left(2l^2-2r^2-8rR-9R^2\right)}\Big\}$$

$$\Big\{X68,\ \text{PRASOLOV POINT},\ X75,\ \text{ISOTOMIC CONJUGATE OF INCENTER},$$

$$-\frac{1}{(1-r-2R)^2(1+r+2R)^2\left(l^2+r^2+4rR\right)^2}$$

$$R\left(8l^8r-56l^6r^3+56l^4r^5-8l^2r^7+l^8R-124l^6r^2R+358l^4r^4R-92l^2r^6R+r^8R-80l^6rR^2+848l^4r^3R^2-464l^2r^5R^2+16r^7R^2-4l^6R^3+668l^4r^2R^3-1148l^2r^4R^3+100r^6R^3+176l^4rR^4-1312l^2r^3R^4+304r^5R^4-4l^4R^5-456l^2r^2R^5+444r^4R^5-32l^2rR^6+224r^3R^6-64r^2R^7\right)\Big\}$$

$$\Big\{X68,\ \text{PRASOLOV POINT},\ X76,\ \text{3rd BROCARD POINT},$$

$$-\Big(\Big(R^2\left(l^{12}+22l^{10}r^2-241l^8r^4+500l^6r^6-241l^4r^8+22l^2r^{10}+r^{12}-24l^{10}rR-328l^8r^3R+2256l^6r^5R-2256l^4r^7R+328l^2r^9R+24r^{11}R-4l^{10}R^2-60l^8r^2R^2+3480l^6r^4R^2-7992l^4r^6R^2+2028l^2r^8R^2+244r^{10}R^2+80l^8rR^3+2240l^6r^3R^3-13856l^4r^5R^3+6848l^2r^7R^3+1360r^9R^3-4l^8R^4+240l^6r^2R^4-11928l^4r^4R^4+13808l^2r^6R^4+4476r^8R^4+64l^6rR^5-4544l^4r^3R^5+16320l^2r^5R^5+8640r^7R^5-384l^4r^2R^6+9472l^2r^4R^6+8832r^6R^6+1024l^2r^3R^7+3072r^5R^7-1024r^4R^8\right)\Big)\Big/\Big((1-r-2R)^2(1+r+2R)^2\left(l^4+2l^2r^2+r^4-8l^2rR+8r^3R+16r^2R^2\right)^2\Big)\Big)\Big\}$$

$$\Big\{\text{X68, PRASOLOV POINT, X77, ISOGONAL CONJUGATE OF X(33)},$$
$$\frac{1}{(l-r-2R)^2\,(l+r+2R)^2\,\left(l^2-rR-4R^2\right)^2}\big(6\,l^8 r^2-8\,l^6 r^4+2\,l^4 r^6-5\,l^8 r R-31\,l^6 r^3 R+$$
$$21\,l^4 r^5 R-l^2 r^7 R+l^8 R^2-36\,l^6 r^2 R^2+93\,l^4 r^4 R^2-14\,l^2 r^6 R^2+56\,l^6 r R^3+152\,l^4 r^3 R^3-$$
$$72\,l^2 r^5 R^3-12\,l^6 R^4-9\,l^4 r^2 R^4-158\,l^2 r^4 R^4-r^6 R^4-224\,l^4 r R^5-48\,l^2 r^3 R^5-16\,r^5 R^5+$$
$$52\,l^4 R^6+340\,l^2 r^2 R^6-100\,r^4 R^6+376\,l^2 r R^7-304\,r^3 R^7-96\,l^2 R^8-444\,r^2 R^8-224\,r R^9+64\,R^{10}\big)\Big\}$$

$$\Big\{\text{X68, PRASOLOV POINT, X78, ISOGONAL CONJUGATE OF X(34)},$$
$$\big(6\,l^4 r^4-8\,l^2 r^6+2\,r^8+l^6 r R-5\,l^4 r^3 R-33\,l^2 r^5 R+21\,r^7 R-17\,l^4 r^2 R^2-18\,l^2 r^4 R^2+$$
$$79\,r^6 R^2-12\,l^4 r R^3+112\,l^2 r^3 R^3+100\,r^5 R^3-l^4 R^4+158\,l^2 r^2 R^4-113\,r^4 R^4+64\,l^2 r R^5-$$
$$448\,r^3 R^5+4\,l^2 R^6-416\,r^2 R^6-120\,r R^7+4\,R^8\big)\Big/\big((r-R)^2\,(-l+r+2R)^2\,(l+r+2R)^2\big)\Big\}$$

$$\Big\{\text{X68, PRASOLOV POINT, X79, ISOGONAL CONJUGATE OF X(35)},$$
$$-\Big(\big(R\,\big(-12\,l^6 r+16\,l^4 r^3-4\,l^2 r^5+94\,l^4 r^2 R-48\,l^2 r^4 R+2\,r^6 R+114\,l^4 r R^2-240\,l^2 r^3 R^2+30\,r^5 R^2-$$
$$9\,l^4 R^3-478\,l^2 r^2 R^3+171\,r^4 R^3-300\,l^2 r R^4+460\,r^3 R^4+36\,l^2 R^5+572\,r^2 R^5+240\,r R^6-36\,R^7\big)\big)\Big/$$
$$\big((-l+r+2R)^2\,(l+r+2R)^2\,(2r+3R)^2\big)\Big)\Big\}$$

$$\Big\{\text{X68, PRASOLOV POINT, X80, REFLECTION OF INCENTER IN FEUERBACH POINT},$$
$$-\Big(\big(R\,\big(2\,l^4 r^2-8\,l^2 r^4+6\,r^6-20\,l^2 r^3 R+44\,r^5 R+l^4 R^2-26\,l^2 r^2 R^2+117\,r^4 R^2-12\,l^2 r R^3+$$
$$140\,r^3 R^3-4\,l^2 R^4+84\,r^2 R^4+24\,r R^5+4\,R^6\big)\big)\Big/\big((2r-R)\,(-l+r+2R)^2\,(l+r+2R)^2\big)\Big)\Big\}$$

$$\Big\{\text{X68, PRASOLOV POINT, X81, CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},$$
$$\frac{1}{(l-r-2R)^2\,(l+r+2R)^2\,\left(l^2-r^2-rR\right)^2}$$
$$\big(8\,l^8 r^2-24\,l^6 r^4+24\,l^4 r^6-8\,l^2 r^8-l^8 r R-64\,l^6 r^3 R+130\,l^4 r^5 R-64\,l^2 r^7 R-$$
$$r^9 R+l^8 R^2-70\,l^6 r^2 R^2+308\,l^4 r^4 R^2-226\,l^2 r^6 R^2-13\,r^8 R^2-4\,l^6 r R^3+364\,l^4 r^3 R^3-$$
$$452\,l^2 r^5 R^3-68\,r^7 R^3-4\,l^6 R^4+207\,l^4 r^2 R^4-566\,l^2 r^4 R^4-185\,r^6 R^4+16\,l^4 r R^5-$$
$$440\,l^2 r^3 R^5-280\,r^5 R^5+4\,l^4 R^6-180\,l^2 r^2 R^6-224\,r^4 R^6-8\,l^2 r R^7-72\,r^3 R^7+4\,r^2 R^8\big)\Big\}$$

$$\Big\{\text{X68, PRASOLOV POINT, X82, ISOGONAL CONJUGATE OF X(38)},$$
$$\big(10\,l^{12} r^2-80\,l^{10} r^4+242\,l^8 r^6-352\,l^6 r^8+254\,l^4 r^{10}-80\,l^2 r^{12}+6\,r^{14}-l^{12} r R-230\,l^{10} r^3 R+$$
$$1493\,l^8 r^5 R-3444\,l^6 r^7 R+3481\,l^4 r^9 R-1446\,l^2 r^{11} R+147\,r^{13} R+l^{12} R^2-76\,l^{10} r^2 R^2+$$
$$2865\,l^8 r^4 R^2-12\,600\,l^6 r^6 R^2+19\,371\,l^4 r^8 R^2-11\,132\,l^2 r^{10} R^2+1571\,r^{12} R^2-20\,l^{10} r R^3+$$
$$1728\,l^8 r^3 R^3-21\,048\,l^6 r^5 R^3+55\,936\,l^4 r^7 R^3-47\,476\,l^2 r^9 R^3+9600\,r^{11} R^3-4\,l^{10} R^4+439\,l^8 r^2 R^4-$$
$$15\,828\,l^6 r^4 R^4+88\,498\,l^4 r^6 R^4-121\,808\,l^2 r^8 R^4+36\,911\,r^{10} R^4+80\,l^8 r R^5-5184\,l^6 r^3 R^5+$$
$$74\,432\,l^4 r^5 R^5-190\,368\,l^2 r^7 R^5+92\,432\,r^9 R^5+4\,l^8 R^6-908\,l^6 r^2 R^6+30\,508\,l^4 r^4 R^6-$$
$$174\,516\,l^2 r^6 R^6+150\,416\,r^8 R^6-72\,l^6 r R^7+5960\,l^4 r^3 R^7-85\,784\,l^2 r^5 R^7+153\,176\,r^7 R^7+$$
$$548\,l^4 r^2 R^8-19\,992\,l^2 r^4 R^8+89\,476\,r^6 R^8-2016\,l^2 r^3 R^9+25\,504\,r^5 R^9+3136\,r^4 R^{10}\big)\Big/$$
$$\big((l-r-2R)^2\,(l+r+2R)^2\,\left(l^4-4\,l^2 r^2+3\,r^4-9\,l^2 r R+19\,r^3 R+28\,r^2 R^2\right)^2\big)\Big\}$$

$$\Big\{\text{X68, PRASOLOV POINT, X83, CEVAPOINT OF CENTROID AND SYMMEDIAN POINT},$$
$$-\Big(\big(4\,l^{14}-156\,l^{12} r^2+660\,l^{10} r^4-1228\,l^8 r^6+1228\,l^6 r^8-660\,l^4 r^{10}+156\,l^2 r^{12}-4\,r^{14}-$$
$$112\,l^{12} r R+3232\,l^{10} r^3 R-11\,152\,l^8 r^5 R+16\,064\,l^6 r^7 R-11\,152\,l^4 r^9 R+3232\,l^2 r^{11} R-$$
$$112\,r^{13} R-47\,l^{12} R^2+2646\,l^{10} r^2 R^2-31\,489\,l^8 r^4 R^2+77\,940\,l^6 r^6 R^2-76\,097\,l^4 r^8 R^2+$$
$$28\,502\,l^2 r^{10} R^2-1391\,r^{12} R^2+1128\,l^{10} r R^3-30\,920\,l^8 r^3 R^3+174\,032\,l^6 r^5 R^3-269\,776\,l^4 r^7 R^3+$$
$$139\,720\,l^2 r^9 R^3-10\,088\,r^{11} R^3+124\,l^{10} R^4-13\,884\,l^8 r^2 R^4+185\,880\,l^6 r^4 R^4-533\,944\,l^4 r^6 R^4+$$
$$417\,004\,l^2 r^8 R^4-47\,244\,r^{10} R^4-2480\,l^8 r R^5+93\,888\,l^6 r^3 R^5-589\,344\,l^4 r^5 R^5+$$
$$778\,432\,l^2 r^7 R^5-148\,656\,r^9 R^5-100\,l^8 R^6+21\,488\,l^6 r^2 R^6-338\,904\,l^4 r^4 R^6+893\,168\,l^2 r^6 R^6-$$
$$315\,108\,r^8 R^6+1600\,l^6 r R^7-94\,144\,l^4 r^3 R^7+589\,248\,l^2 r^5 R^7-435\,264\,r^7 R^7-9600\,l^4 r^2 R^8+$$
$$197\,888\,l^2 r^4 R^8-360\,832\,r^6 R^8+25\,600\,l^2 r^3 R^9-152\,576\,r^5 R^9-25\,600\,r^4 R^{10}\big)\Big/$$
$$\big((l-r-2R)^2\,(l+r+2R)^2\,\left(5\,l^4-6\,l^2 r^2+5\,r^4-40\,l^2 r R+40\,r^3 R+80\,r^2 R^2\right)^2\big)\Big)\Big\}$$

$$\{X68,\ \text{PRASOLOV POINT},\ X84,\ \text{ISOGONAL CONJUGATE OF } X(40),$$
$$-\Big(\big(2 l^6 r^2 - 8 l^4 r^4 + 6 l^2 r^6 - 6 l^6 r R + 4 l^4 r^3 R + 14 l^2 r^5 R + 4 r^7 R + 4 l^6 R^2 + 35 l^4 r^2 R^2 - 50 l^2 r^4 R^2 + 47 r^6 R^2 + 20 l^4 r R^3 - 204 l^2 r^3 R^3 + 216 r^5 R^3 - 48 l^4 R^4 - 156 l^2 r^2 R^4 + 476 r^4 R^4 + 128 l^2 r R^5 + 448 r^3 R^5 + 192 l^2 R^6 - 68 r^2 R^6 - 448 r R^7 - 256 R^8\big) \big/ \big(r^2 (-l + r + 2 R)^2 (l + r + 2 R)^2\big)\Big)\}$$

$$\{X68,\ \text{PRASOLOV POINT},\ X85,\ \text{ISOTOMIC CONJUGATE OF } X(9),$$
$$-\frac{1}{(l - r - 2 R)^2 (l + r + 2 R)^2 \left(l^2 + r^2 + 8 r R + 16 R^2\right)^2}$$
$$R\big(8 l^8 r - 56 l^6 r^3 + 56 l^4 r^5 - 8 l^2 r^7 + 17 l^8 R - 332 l^6 r^2 R + 598 l^4 r^4 R - 140 l^2 r^6 R + r^8 R - 552 l^6 r R^2 + 2472 l^4 r^3 R^2 - 1048 l^2 r^5 R^2 + 24 r^7 R^2 - 132 l^6 R^3 + 4780 l^4 r^2 R^3 - 4316 l^2 r^4 R^3 + 244 r^6 R^3 + 3728 l^4 r R^4 - 10272 l^2 r^3 R^4 + 1360 r^5 R^4 - 4 l^4 R^5 - 13192 l^2 r^2 R^5 + 4476 r^4 R^5 - 6720 l^2 r R^6 + 8640 r^3 R^6 + 896 l^2 R^7 + 8832 r^2 R^7 + 3072 r R^8 - 1024 R^9\big)\}$$

$$\{X68,\ \text{PRASOLOV POINT},\ X86,\ \text{CEVAPOINT OF INCENTER AND CENTROID},$$
$$-\frac{1}{(l - r - 2 R)^2 (l + r + 2 R)^2 \left(5 l^2 + r^2 + 4 r R\right)^2}$$
$$\big(4 l^{10} - 120 l^8 r^2 + 128 l^6 r^4 - 8 l^4 r^6 - 4 l^2 r^8 - 32 l^8 r R + 512 l^6 r^3 R - 32 l^4 r^5 R - 64 l^2 r^7 R - 47 l^8 R^2 + 948 l^6 r^2 R^2 - 234 l^4 r^4 R^2 - 396 l^2 r^6 R^2 + r^8 R^2 + 256 l^6 r R^3 - 880 l^4 r^3 R^3 - 1248 l^2 r^5 R^3 + 16 r^7 R^3 + 124 l^6 R^4 - 1380 l^4 r^2 R^4 - 2044 l^2 r^4 R^4 + 100 r^6 R^4 - 272 l^4 r R^5 - 1504 l^2 r^3 R^5 + 304 r^5 R^5 - 100 l^4 R^6 - 232 l^2 r^2 R^6 + 444 r^4 R^6 - 160 l^2 r R^7 + 224 r^3 R^7 - 64 r^2 R^8\big)\}$$

$$\{X68,\ \text{PRASOLOV POINT},\ X87,\ X(2)\text{-CROSS CONJUGATE OF } X(1),$$
$$\big(6 l^{12} r^2 + 16 l^{10} r^4 + 6 l^8 r^6 - 16 l^6 r^8 - 14 l^4 r^{10} + 2 r^{14} + 2 l^{12} r R - 264 l^{10} r^3 R - 118 l^8 r^5 R + 288 l^6 r^7 R - 74 l^4 r^9 R - 152 l^2 r^{11} R + 62 r^{13} R + l^{12} R^2 - 118 l^{10} r^2 R^2 + 3827 l^8 r^4 R^2 - 4676 l^6 r^6 R^2 + 4055 l^4 r^8 R^2 - 2918 l^2 r^{10} R^2 + 789 r^{12} R^2 - 60 l^{10} r R^3 + 2812 l^8 r^3 R^3 - 22072 l^6 r^5 R^3 + 30488 l^4 r^7 R^3 - 21004 l^2 r^9 R^3 + 5484 r^{11} R^3 - 4 l^{10} R^4 + 1252 l^8 r^2 R^4 - 29928 l^6 r^4 R^4 + 85448 l^4 r^6 R^4 - 77332 l^2 r^8 R^4 + 23124 r^{10} R^4 + 192 l^8 r R^5 - 12480 l^6 r^3 R^5 + 115136 l^4 r^5 R^5 - 162624 l^2 r^7 R^5 + 61824 r^9 R^5 + 4 l^8 R^6 - 2928 l^6 r^2 R^6 + 70168 l^4 r^4 R^6 - 201584 l^2 r^6 R^6 + 106244 r^8 R^6 - 160 l^6 r R^7 + 16672 l^4 r^3 R^7 - 141280 l^2 r^5 R^7 + 116320 r^7 R^7 + 1856 l^4 r^2 R^8 - 47488 l^2 r^4 R^8 + 77632 r^6 R^8 - 5120 l^2 r^3 R^9 + 27648 r^5 R^9 + 4096 r^4 R^{10}\big) \big/$$
$$\big((l - r - 2 R)^2 (l + r + 2 R)^2 \left(l^4 + 2 l^2 r^2 + r^4 - 20 l^2 r R + 12 r^3 R + 32 r^2 R^2\right)^2\big)\}$$

$$\{X68,\ \text{PRASOLOV POINT},\ X88,\ \text{ISOGONAL CONJUGATE OF } X(44),$$
$$\frac{1}{(l - r - 2 R)^2 (l + r + 2 R)^2 \left(l^2 + 3 r^2 - 15 r R\right)^2}$$
$$\big(16 l^6 r^4 + 32 l^4 r^6 - 48 l^2 r^8 + l^8 r R - 20 l^6 r^3 R - 390 l^4 r^5 R + 180 l^2 r^7 R - 27 r^9 R + l^8 R^2 - 22 l^6 r^2 R^2 + 364 l^4 r^4 R^2 + 942 l^2 r^6 R^2 - 261 r^8 R^2 - 44 l^6 r R^3 + 260 l^4 r^3 R^3 + 420 l^2 r^5 R^3 - 828 r^7 R^3 - 4 l^6 R^4 + 559 l^4 r^2 R^4 - 3078 l^2 r^4 R^4 - 585 r^6 R^4 + 144 l^4 r R^5 - 2040 l^2 r^3 R^5 + 2088 r^5 R^5 + 4 l^4 R^6 - 1428 l^2 r^2 R^6 + 4608 r^4 R^6 - 120 l^2 r R^7 + 2376 r^3 R^7 + 900 r^2 R^8\big)\}$$

$$\{X68,\ \text{PRASOLOV POINT},\ X89,\ \text{ISOGONAL CONJUGATE OF } X(45),$$
$$\frac{1}{(l - r - 2 R)^2 (l + r + 2 R)^2 \left(2 l^2 - 6 r^2 + 3 r R\right)^2}$$
$$\big(48 l^8 r^2 - 272 l^6 r^4 + 464 l^4 r^6 - 240 l^2 r^8 - 2 l^8 r R - 284 l^6 r^3 R + 1272 l^4 r^5 R - 1188 l^2 r^7 R - 54 r^9 R + 4 l^8 R^2 - 490 l^6 r^2 R^2 + 2038 l^4 r^4 R^2 - 2166 l^2 r^6 R^2 - 666 r^8 R^2 - 8 l^6 r R^3 + 1280 l^4 r^3 R^3 - 1032 l^2 r^5 R^3 - 3312 r^7 R^3 - 16 l^6 R^4 + 1411 l^4 r^2 R^4 + 630 l^2 r^4 R^4 - 8685 r^6 R^4 + 744 l^2 r^3 R^5 - 13032 r^5 R^5 + 16 l^4 R^6 - 1164 l^2 r^2 R^6 - 10836 r^4 R^6 + 48 l^2 r R^7 - 4320 r^3 R^7 + 36 r^2 R^8\big)\}$$

$$\Big\{\text{X68, PRASOLOV POINT, X90, X(3)-CROSS CONJUGATE OF X(1)},$$
$$-\frac{1}{(1-r-2R)^2(1+r+2R)^2\left(r^2+2rR-R^2\right)^2}$$
$$\left(2l^6r^4-8l^4r^6+6l^2r^8-26l^4r^5R+40l^2r^7R+2r^9R-2l^6r^2R^2-3l^4r^4R^2+76l^2r^6R^2+29r^8R^2+40l^4r^3R^3-36l^2r^5R^3+172r^7R^3+16l^4r^2R^4-272l^2r^4R^4+536r^6R^4+2l^4rR^5-264l^2r^3R^5+934r^5R^5-l^4R^6-46l^2r^2R^6+879r^4R^6+4l^2rR^7+364r^3R^7+4l^2R^8+4r^2R^8-16rR^9-4R^{10}\right)\Big\}$$

$$\Big\{\text{X68, PRASOLOV POINT, X91, ISOGONAL CONJUGATE OF X(47)},$$
$$\frac{R\left(l^2-2lr-r^2-4rR-2R^2\right)^2\left(l^2+2lr-r^2-4rR-2R^2\right)^2\left(l^2r-r^3-5r^2R-6rR^2+R^3\right)}{(1-r-2R)^2(1+r+2R)^2\left(l^2r+r^3-l^2R+3r^2R+2rR^2+2R^3\right)^2}\Big\}$$

$$\Big\{\text{X68, PRASOLOV POINT, X92, CEVAPOINT OF INCENTER AND CLAWSON POINT},$$
$$-\frac{1}{(1-r-2R)^2(1+r+2R)^2\left(l^2+r^2-4R^2\right)^2}$$
$$R\left(4l^8r-32l^6r^3+56l^4r^5-32l^2r^7+4r^9+l^8R-100l^6r^2R+414l^4r^4R-372l^2r^6R+73r^8R-80l^6rR^2+1088l^4r^3R^2-1840l^2r^5R^2+576r^7R^2-12l^6R^3+1220l^4r^2R^3-4788l^2r^4R^3+2556r^6R^3+528l^4rR^4-6752l^2r^3R^4+6928r^5R^4+44l^4R^5-4840l^2r^2R^5+11628r^4R^5-1408l^2rR^6+11648r^3R^6-32l^2R^7+6240r^2R^7+1280rR^8-64R^9\right)\Big\}$$

$$\Big\{\text{X68, PRASOLOV POINT, X93, ISOGONAL CONJUGATE OF X(49)},$$
$$\left(R^2\left(l^{12}-34l^{10}r^2+239l^8r^4-476l^6r^6+239l^4r^8-34l^2r^{10}+r^{12}-24l^{10}rR+568l^8r^3R-2480l^6r^5R+2480l^4r^7R-568l^2r^9R+24r^{11}R-16l^{10}R^2+688l^8r^2R^2-5744l^6r^4R^2+10704l^4r^6R^2-4096l^2r^8R^2+256r^{10}R^2+320l^8rR^3-6976l^6r^3R^3+25088l^4r^5R^3-16704l^2r^7R^3+1600r^9R^3+108l^8R^4-4904l^6r^2R^4+35352l^4r^4R^4-42536l^2r^6R^4+6508r^8R^4-1728l^6rR^5+30720l^4r^3R^5-70656l^2r^5R^5+18112r^7R^5-388l^6R^6+16236l^4r^2R^6-77676l^2r^4R^6+35332r^6R^6+4656l^4rR^7-55776l^2r^3R^7+48688r^5R^7+763l^4R^8-24890l^2r^2R^8+47035r^4R^8-6104l^2rR^9+30936r^3R^9-756l^2R^{10}+12964r^2R^{10}+3024rR^{11}+324R^{12}\right)\right)\Big/$$
$$\left((1-r-2R)^2(1+r+2R)^2\left(l^4+2l^2r^2+r^4-8l^2rR+8r^3R-8l^2R^2+24r^2R^2+32rR^3+13R^4\right)^2\right)\Big\}$$

$$\Big\{\text{X68, PRASOLOV POINT, X94, ISOGONAL CONJUGATE OF X(50)},$$
$$\left(R^2\left(5l^{12}-58l^{10}r^2+235l^8r^4-428l^6r^6+235l^4r^8-58l^2r^{10}+5r^{12}-120l^{10}rR+1048l^8r^3R-2928l^6r^5R+2928l^4r^7R-1048l^2r^9R+120r^{11}R-86l^{10}R^2+1950l^8r^2R^2-9468l^6r^4R^2+15324l^4r^6R^2-8238l^2r^8R^2+1286r^{10}R^2+1720l^8rR^3-17120l^6r^3R^3+45008l^4r^5R^3-37088l^2r^7R^3+8120r^9R^3+628l^8R^4-17784l^6r^2R^4+82728l^4r^4R^4-106232l^2r^6R^4+33588r^8R^4-10048l^6rR^5+97280l^4r^3R^5-203520l^2r^5R^5+95808r^7R^5-2454l^6R^6+71034l^4r^2R^6-265594l^2r^4R^6+193302r^6R^6+29448l^4rR^7-233200l^2r^3R^7+278280r^5R^7+5355l^4R^8-131418l^2r^2R^8+283915r^4R^8-42840l^2rR^9+199896r^3R^9-6156l^2R^{10}+91836r^2R^{10}+24624rR^{11}+2916R^{12}\right)\right)\Big/$$
$$\left((1-r-2R)^2(1+r+2R)^2\left(l^4+2l^2r^2+r^4-8l^2rR+8r^3R-12l^2R^2+28r^2R^2+48rR^3+27R^4\right)^2\right)\Big\}$$

$$\Big\{\text{X68, PRASOLOV POINT, X95, CEVAPOINT OF CENTROID AND CIRCUMCENTER},$$
$$-\left(\left(16l^{12}r^2+176l^{10}r^4-1888l^8r^6+1888l^6r^8-176l^4r^{10}-16l^2r^{12}-320l^{10}r^3R-1792l^8r^5R+9344l^6r^7R-1792l^4r^9R-320l^2r^{11}R+l^{12}R^2-170l^{10}r^2R^2-113l^8r^4R^2+17012l^6r^6R^2-7281l^4r^8R^2-2730l^2r^{10}R^2+r^{12}R^2-24l^{10}rR^3+2744l^8r^3R^3+8400l^6r^5R^3-14544l^4r^7R^3-12984l^2r^9R^3+24r^{11}R^3-12l^{10}R^4+620l^8r^2R^4-3000l^6r^4R^4-13800l^4r^6R^4-37564l^2r^8R^4+252r^{10}R^4+240l^8rR^5-6080l^6r^3R^5-4192l^4r^5R^5-67008l^2r^7R^5+1520r^9R^5+44l^8R^6-272l^6r^2R^6-2040l^4r^4R^6-69136l^2r^6R^6+5804r^8R^6-704l^6rR^7-4800l^4r^3R^7-29504l^2r^5R^7+14528r^7R^7-32l^6R^8-4768l^4r^2R^8+14368l^2r^4R^8+23712r^6R^8+384l^4rR^9+24320l^2r^3R^9+23936r^5R^9-64l^4R^{10}+10880l^2r^2R^{10}+12736r^4R^{10}+512l^2rR^{11}+1536r^3R^{11}-1024r^2R^{12}\right)\Big/$$
$$\left((1-r-2R)^2(1+r+2R)^2\left(l^4+18l^2r^2+r^4-8l^2rR+8r^3R-4l^2R^2+20r^2R^2+16rR^3\right)^2\right)\Big)\Big\}$$

$$\{X68,\ \text{PRASOLOV POINT},\ X96,\ \text{ISOGONAL CONJUGATE OF } X(52),$$
$$-\Big(\Big(\big(l^2-2\,l\,r-r^2-4\,r\,R-2\,R^2\big)^2\,\big(l^2+2\,l\,r-r^2-4\,r\,R-2\,R^2\big)^2\,\big(2\,l^6-30\,l^4\,r^2+30\,l^2\,r^4-2\,r^6-24\,l^4\,r\,R+144\,l^2\,r^3\,R-24\,r^5\,R-19\,l^4\,R^2+266\,l^2\,r^2\,R^2-115\,r^4\,R^2+152\,l^2\,r\,R^3-280\,r^3\,R^3+44\,l^2\,R^4-348\,r^2\,R^4-176\,r\,R^5-36\,R^6\big)\Big)\Big/\Big((l-r-2\,R)^2\,(l+r+2\,R)^2\,\big(l^4-14\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R+16\,r^2\,R^2-4\,R^4\big)^2\Big)\Big)\}$$

$$\{X68,\ \text{PRASOLOV POINT},\ X97,\ \text{ISOGONAL CONJUGATE OF } X(53),$$
$$\big(12\,l^{12}\,r^2-124\,l^{10}\,r^4+376\,l^8\,r^6-376\,l^6\,r^8+124\,l^4\,r^{10}-12\,l^2\,r^{12}-240\,l^{10}\,r^3\,R+1728\,l^8\,r^5\,R-3232\,l^6\,r^7\,R+1728\,l^4\,r^9\,R-240\,l^2\,r^{11}\,R+2\,l^{12}\,R^2-252\,l^{10}\,r^2\,R^2+3694\,l^8\,r^4\,R^2-12\,200\,l^6\,r^6\,R^2+10\,606\,l^4\,r^8\,R^2-2172\,l^2\,r^{10}\,R^2+2\,r^{12}\,R^2-48\,l^{10}\,r\,R^3+4080\,l^8\,r^3\,R^3-25\,952\,l^6\,r^5\,R^3+37\,728\,l^4\,r^7\,R^3-11\,760\,l^2\,r^9\,R^3+48\,r^{11}\,R^3-34\,l^{10}\,R^4+2538\,l^8\,r^2\,R^4-34\,132\,l^6\,r^4\,R^4+86\,036\,l^4\,r^6\,R^4-42\,378\,l^2\,r^8\,R^4+514\,r^{10}\,R^4+680\,l^8\,r\,R^5-27\,936\,l^6\,r^3\,R^5+131\,184\,l^4\,r^5\,R^5-106\,784\,l^2\,r^7\,R^5+3240\,r^9\,R^5+231\,l^8\,R^6-13\,744\,l^6\,r^2\,R^6+135\,058\,l^4\,r^4\,R^6-192\,048\,l^2\,r^6\,R^6+13\,351\,r^8\,R^6-3696\,l^6\,r\,R^7+91\,888\,l^4\,r^3\,R^7-246\,768\,l^2\,r^5\,R^7+37\,744\,r^7\,R^7-796\,l^6\,R^8+39\,028\,l^4\,r^2\,R^8-222\,804\,l^2\,r^4\,R^8+74\,684\,r^6\,R^8+9552\,l^4\,r\,R^9-136\,096\,l^2\,r^3\,R^9+103\,504\,r^5\,R^9+1460\,l^4\,R^{10}-52\,584\,l^2\,r^2\,R^{10}+98\,804\,r^4\,R^{10}-11\,680\,l^2\,r\,R^{11}+62\,624\,r^3\,R^{11}-1376\,l^2\,R^{12}+24\,736\,r^2\,R^{12}+5504\,r\,R^{13}+576\,R^{14}\big)\Big/\Big((l-r-2\,R)^2\,(l+r+2\,R)^2\,\big(l^4-6\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-7\,l^2\,R^2+23\,r^2\,R^2+28\,r\,R^3+12\,R^4\big)^2\Big)\}$$

$$\{X68,\ \text{PRASOLOV POINT},\ X98,\ \text{TarryPoint},$$
$$-\Big(\big(2\,l^{10}-26\,l^8\,r^2+100\,l^6\,r^4-100\,l^4\,r^6+26\,l^2\,r^8-2\,r^{10}-40\,l^8\,r\,R+352\,l^6\,r^3\,R-752\,l^4\,r^5\,R+352\,l^2\,r^7\,R-40\,r^9\,R-23\,l^8\,R^2+548\,l^6\,r^2\,R^2-2314\,l^4\,r^4\,R^2+1956\,l^2\,r^6\,R^2-343\,r^8\,R^2+368\,l^6\,r\,R^3-3472\,l^4\,r^3\,R^3+5776\,l^2\,r^5\,R^3-1648\,r^7\,R^3+84\,l^6\,R^4-2732\,l^4\,r^2\,R^4+9676\,l^2\,r^4\,R^4-4852\,r^6\,R^4-1008\,l^4\,r\,R^5+8992\,l^2\,r^3\,R^5-8944\,r^5\,R^5-100\,l^4\,R^6+4280\,l^2\,r^2\,R^6-10\,020\,r^4\,R^6+800\,l^2\,r\,R^7-6176\,r^3\,R^7-1600\,r^2\,R^8\big)\Big/\Big((l-r-2\,R)^2\,(l+r+2\,R)^2\,\big(l^4-14\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R+16\,r^2\,R^2\big)\Big)\Big)\}$$

$$\{X68,\ \text{PRASOLOV POINT},\ X99,\ \text{STEINER POINT},$$
$$\big(16\,l^8\,r^2-112\,l^6\,r^4+112\,l^4\,r^6-16\,l^2\,r^8-192\,l^6\,r^3\,R+640\,l^4\,r^5\,R-192\,l^2\,r^7\,R-l^8\,R^2-164\,l^6\,r^2\,R^2+1402\,l^4\,r^4\,R^2-932\,l^2\,r^6\,R^2-r^8\,R^2+16\,l^6\,r\,R^3+1296\,l^4\,r^3\,R^3-2320\,l^2\,r^5\,R^3-16\,r^7\,R^3+4\,l^6\,R^4+580\,l^4\,r^2\,R^4-3172\,l^2\,r^4\,R^4-100\,r^6\,R^4-48\,l^4\,r\,R^5-2400\,l^2\,r^3\,R^5-304\,r^5\,R^5+4\,l^4\,R^6-1016\,l^2\,r^2\,R^6-444\,r^4\,R^6-32\,l^2\,r\,R^7-224\,r^3\,R^7+64\,r^2\,R^8\big)\Big/\Big((l-r-2\,R)^2\,(l+r+2\,R)^2\,\big(l^4-14\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R+16\,r^2\,R^2\big)\Big)\}$$

$$\{X68,\ \text{PRASOLOV POINT},\ X100,\ \text{ANTICOMPLEMENT OF FEUERBACH POINT},$$
$$\big(-2\,l^6\,r+14\,l^4\,r^3-14\,l^2\,r^5+2\,r^7+28\,l^4\,r^2\,R-88\,l^2\,r^4\,R+28\,r^6\,R+22\,l^4\,r\,R^2-220\,l^2\,r^3\,R^2+158\,r^5\,R^2+l^4\,R^3-230\,l^2\,r^2\,R^3+457\,r^4\,R^3-96\,l^2\,r\,R^4+704\,r^3\,R^4-4\,l^2\,R^5+532\,r^2\,R^5+152\,r\,R^6-4\,R^7\big)\Big/\Big((2\,r-R)\,(-l+r+2\,R)^2\,(l+r+2\,R)^2\Big)\}$$

$$\{X69,\ \text{SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},\ X70,\ \text{ISOGONAL CONJUGATE OF } X(26),$$
$$-\Big(\Big(R^2\,\big(l^2-r^2-4\,r\,R-2\,R^2\big)^2\,\big(l^8+16\,l^6\,r^2-34\,l^4\,r^4+16\,l^2\,r^6+r^8-16\,l^6\,r\,R-112\,l^4\,r^3\,R+112\,l^2\,r^5\,R+16\,r^7\,R-4\,l^6\,R^2-116\,l^4\,r^2\,R^2+340\,l^2\,r^4\,R^2+100\,r^6\,R^2+48\,l^4\,r\,R^3+544\,l^2\,r^3\,R^3+304\,r^5\,R^3-l^4\,R^4+398\,l^2\,r^2\,R^4+447\,r^4\,R^4+8\,l^2\,r\,R^5+248\,r^3\,R^5-16\,r^2\,R^6\big)\Big)\Big/\Big(\big(l^2-r^2-4\,r\,R\big)^2\,\big(l^4-2\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-6\,l^2\,R^2+22\,r^2\,R^2+24\,r\,R^3+7\,R^4\big)^2\Big)\Big)\}$$

$$\{X69,\ \text{SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},$$
$$X71,\ \text{ISOGONAL CONJUGATE OF } X(27),\ -\Big(\Big(\big(l^2+r^2+4\,r\,R\big)^2\,\big(l^6-9\,l^4\,r^2+7\,l^2\,r^4+r^6-16\,l^4\,r\,R+32\,l^2\,r^3\,R+16\,r^5\,R-4\,l^4\,R^2+48\,l^2\,r^2\,R^2+100\,r^4\,R^2+16\,l^2\,r\,R^3+304\,r^3\,R^3-16\,l^2\,R^4+448\,r^2\,R^4+256\,r\,R^5\big)\Big)\Big/\Big(\big(l^2-r^2-4\,r\,R\big)^2\,\big(l^2+r^2+6\,r\,R+8\,R^2\big)^2\Big)\Big)\}$$

$$\{X69,\ \text{SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},$$
$$X72,\ \text{ISOGONAL CONJUGATE OF } X(28),\ -\frac{1}{R\,\big(-l^2+r^2+4\,r\,R\big)^2}\,r^2\,\big(2\,l^4\,r-4\,l^2\,r^3+2\,r^5+3\,l^4\,R-30\,l^2\,r^2\,R+27\,r^4\,R-72\,l^2\,r\,R^2+136\,r^3\,R^2-16\,l^2\,R^3+304\,r^2\,R^3+256\,r\,R^4\big)\}$$

$$\{X69,\ \text{SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},\ X73,\ \text{CROSSPOINT OF INCENTER AND CIRCUMCENTER},\ \left(\left(l^2+r^2\right)^2\left(l^6+7\,l^4\,r^2-9\,l^2\,r^4+r^6-20\,l^4\,r\,R-24\,l^2\,r^3\,R+12\,r^5\,R-8\,l^4\,R^2+8\,l^2\,r^2\,R^2+48\,r^4\,R^2+144\,l^2\,r\,R^3+48\,r^3\,R^3+16\,l^2\,R^4-128\,r^2\,R^4-256\,r\,R^5\right)\right)\Big/\left(\left(l^2-r^2-4\,r\,R\right)^2\left(l^2+r^2-2\,r\,R-4\,R^2\right)^2\right)\}$$

$$\{X69,\ \text{SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},\ X74,\ \text{ISOGONAL CONJUGATE OF EULER INFINITY POINT},\ -\frac{\left(l^2-r^2-4\,r\,R-6\,R^2\right)^2\left(l^4-14\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R+16\,r^2\,R^2\right)}{\left(l^2-r^2-4\,r\,R\right)^2\left(2\,l^2-2\,r^2-8\,r\,R-9\,R^2\right)}\}$$

$$\{X69,\ \text{SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},\ X75,\ \text{ISOTOMIC CONJUGATE OF INCENTER},\ \frac{64\,l^4\,r^2\,R\left(l^2\,r-r^3+l^2\,R-8\,r^2\,R-16\,r\,R^2\right)}{\left(l^2-r^2-4\,r\,R\right)^2\left(l^2+r^2+4\,r\,R\right)^2}\}$$

$$\{X69,\ \text{SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},\ X76,\ \text{3rd BROCARD POINT},\ \frac{64\,l^4\,r^4\,R^2\left(l^4-14\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R+16\,r^2\,R^2\right)}{\left(l^2-r^2-4\,r\,R\right)^2\left(l^4+2\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R+16\,r^2\,R^2\right)^2}\}$$

$$\{X69,\ \text{SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},\ X77,\ \text{ISOGONAL CONJUGATE OF X(33)},\ \left(l^4\left(l^6+7\,l^4\,r^2-9\,l^2\,r^4+r^6-20\,l^4\,r\,R-24\,l^2\,r^3\,R+12\,r^5\,R-8\,l^4\,R^2+8\,l^2\,r^2\,R^2+48\,r^4\,R^2+144\,l^2\,r\,R^3+48\,r^3\,R^3+16\,l^2\,R^4-128\,r^2\,R^4-256\,r\,R^5\right)\right)\Big/\left(\left(l^2-r^2-4\,r\,R\right)^2\left(l^2-r\,R-4\,R^2\right)^2\right)\}$$

$$\{X69,\ \text{SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},\ X78,\ \text{ISOGONAL CONJUGATE OF X(34)},\ \frac{1}{(r-R)^2\left(-l^2+r^2+4\,r\,R\right)^2}\ r^2\left(l^6+7\,l^4\,r^2-9\,l^2\,r^4+r^6-20\,l^4\,r\,R-24\,l^2\,r^3\,R+12\,r^5\,R-8\,l^4\,R^2+8\,l^2\,r^2\,R^2+48\,r^4\,R^2+144\,l^2\,r\,R^3+48\,r^3\,R^3+16\,l^2\,R^4-128\,r^2\,R^4-256\,r\,R^5\right)\}$$

$$\{X69,\ \text{SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},\ X79,\ \text{ISOGONAL CONJUGATE OF X(35)},\ \left(R\left(18\,l^6\,r-18\,l^4\,r^3-2\,l^2\,r^5+2\,r^7+9\,l^6\,R-177\,l^4\,r^2\,R-113\,l^2\,r^4\,R+25\,r^6\,R-144\,l^4\,r\,R^2-120\,l^2\,r^3\,R^2+104\,r^5\,R^2+144\,r^4\,R^3\right)\right)\Big/\left((2\,r+3\,R)^2\left(-l^2+r^2+4\,r\,R\right)^2\right)\}$$

$$\{X69,\ \text{SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},\ X80,\ \text{REFLECTION OF INCENTER IN FEUERBACH POINT},\ -\frac{R\left(l^6-l^4\,r^2-9\,l^2\,r^4+9\,r^6-16\,l^4\,r\,R+72\,l^2\,r^3\,R+72\,r^5\,R+144\,r^4\,R^2\right)}{(2\,r-R)\left(-l^2+r^2+4\,r\,R\right)^2}\}$$

$$\{X69,\ \text{SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},\ X81,\ \text{CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},\ \frac{\left(l^2-r^2-2\,r\,R\right)^2\left(l^6+9\,l^4\,r^2-9\,l^2\,r^4-r^6-12\,l^4\,r\,R-24\,l^2\,r^3\,R-12\,r^5\,R-60\,l^2\,r^2\,R^2-48\,r^4\,R^2-64\,r^3\,R^3\right)}{\left(l^2-r^2-4\,r\,R\right)^2\left(l^2-r^2-r\,R\right)^2}\}$$

$$\{X69,\ \text{SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},\ X82,\ \text{ISOGONAL CONJUGATE OF X(38)},\ \left(l^{14}+3\,l^{12}\,r^2-67\,l^{10}\,r^4+247\,l^8\,r^6-381\,l^6\,r^8+265\,l^4\,r^{10}-65\,l^2\,r^{12}-3\,r^{14}-32\,l^{12}\,r\,R-32\,l^{10}\,r^3\,R+1080\,l^8\,r^5\,R-3072\,l^6\,r^7\,R+3120\,l^4\,r^9\,R-992\,l^2\,r^{11}\,R-72\,r^{13}\,R+352\,l^{10}\,r^2\,R^2+528\,l^8\,r^4\,R^2-7984\,l^6\,r^6\,R^2+14\,032\,l^4\,r^8\,R^2-6192\,l^2\,r^{10}\,R^2-736\,r^{12}\,R^2-1728\,l^8\,r^3\,R^3-5696\,l^6\,r^5\,R^3+29\,504\,l^4\,r^7\,R^3-20\,480\,l^2\,r^9\,R^3-4160\,r^{11}\,R^3+2816\,l^6\,r^4\,R^4+26\,624\,l^4\,r^6\,R^4-38\,336\,l^2\,r^8\,R^4-14\,080\,r^{10}\,R^4+5120\,l^4\,r^5\,R^5-38\,400\,l^2\,r^7\,R^5-28\,672\,r^9\,R^5-15\,360\,l^2\,r^6\,R^6-32\,768\,r^8\,R^6-16\,384\,r^7\,R^7\right)\Big/\left(\left(l^2-r^2-4\,r\,R\right)^2\left(l^4-4\,l^2\,r^2+3\,r^4-9\,l^2\,r\,R+19\,r^3\,R+28\,r^2\,R^2\right)^2\right)\}$$

$$\{X69,\ \text{SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},\ X83,\ \text{CEVAPOINT OF CENTROID AND SYMMEDIAN POINT},\ \left(16\left(l^{14}+7 l^{12} r^2-41 l^{10} r^4+81 l^8 r^6-81 l^6 r^8+41 l^4 r^{10}-7 l^2 r^{12}-r^{14}-28 l^{12} r R-112 l^{10} r^3 R+604 l^8 r^5 R-928 l^6 r^7 R+604 l^4 r^9 R-112 l^2 r^{11} R-28 r^{13} R+228 l^{10} r^2 R^2+852 l^8 r^4 R^2-3392 l^6 r^6 R^2+3268 l^4 r^8 R^2-668 l^2 r^{10} R^2-336 r^{12} R^2-512 l^8 r^3 R^3-4064 l^6 r^5 R^3+8032 l^4 r^7 R^3-1728 l^2 r^9 R^3-2240 r^{11} R^3-1408 l^6 r^4 R^4+9536 l^4 r^6 R^4-1408 l^2 r^8 R^4-8960 r^{10} R^4+6144 l^4 r^5 R^5+1024 l^2 r^7 R^5-21504 r^9 R^5+1024 l^2 r^6 R^6-28672 r^8 R^6-16384 r^7 R^7\right)\right)\Big/\left(\left(l^2-r^2-4 r R\right)^2\left(5 l^4-6 l^2 r^2+5 r^4-40 l^2 r R+40 r^3 R+80 r^2 R^2\right)^2\right)\}$$

$$\{X69,\ \text{SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},\ X84,\ \text{ISOGONAL CONJUGATE OF } X(40),\ -\frac{1}{r^2\left(-l^2+r^2+4 r R\right)^2}\left(l^6 r^2-9 l^4 r^4+7 l^2 r^6+r^8-4 l^6 r R+16 l^4 r^3 R+4 l^2 r^5 R+16 r^7 R+4 l^6 R^2+24 l^4 r^2 R^2-76 l^2 r^4 R^2+96 r^6 R^2-32 l^4 r R^3-96 l^2 r^3 R^3+256 r^5 R^3-16 l^4 R^4+96 l^2 r^2 R^4+240 r^4 R^4+128 l^2 r R^5-128 r^3 R^5-256 r^2 R^6\right)\}$$

$$\{X69,\ \text{SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},\ X85,\ \text{ISOTOMIC CONJUGATE OF } X(9),\ \frac{64 l^4 R (r+2 R)^2\left(l^2 r-r^3+l^2 R-8 r^2 R-16 r R^2\right)}{\left(l^2-r^2-4 r R\right)^2\left(l^2+r^2+8 r R+16 R^2\right)^2}\}$$

$$\{X69,\ \text{SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},\ X86,\ \text{CEVAPOINT OF INCENTER AND CENTROID},\ \frac{16 l^4\left(l^6+9 l^4 r^2-9 l^2 r^4-r^6-12 l^4 r R-24 l^2 r^3 R-12 r^5 R-60 l^2 r^2 R^2-48 r^4 R^2-64 r^3 R^3\right)}{\left(l^2-r^2-4 r R\right)^2\left(5 l^2+r^2+4 r R\right)^2}\}$$

$$\{X69,\ \text{SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},\ X87,\ X(2)\text{-CROSS CONJUGATE OF } X(1),\ \left(l^{14}+11 l^{12} r^2+25 l^{10} r^4+11 l^8 r^6-21 l^6 r^8-23 l^4 r^{10}-5 l^2 r^{12}+r^{14}-48 l^{12} r R-392 l^{10} r^3 R-168 l^8 r^5 R+368 l^6 r^7 R-64 l^4 r^9 R-232 l^2 r^{11} R+24 r^{13} R+768 l^{10} r^2 R^2+4208 l^8 r^4 R^2-5376 l^6 r^6 R^2+4448 l^4 r^8 R^2-2944 l^2 r^{10} R^2+176 r^{12} R^2-3968 l^8 r^3 R^3-14208 l^6 r^5 R^3+24448 l^4 r^7 R^3-14464 l^2 r^9 R^3-4096 l^6 r^4 R^4+36608 l^4 r^6 R^4-27136 l^2 r^8 R^4-6400 r^{10} R^4+32768 l^4 r^5 R^5-10240 l^2 r^7 R^5-34816 r^9 R^5+4096 l^2 r^6 R^6-77824 r^8 R^6-65536 r^7 R^7\right)\Big/\left(\left(l^2-r^2-4 r R\right)^2\left(l^4+2 l^2 r^2+r^4-20 l^2 r R+12 r^3 R+32 r^2 R^2\right)^2\right)\}$$

$$\{X69,\ \text{SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},\ X88,\ \text{ISOGONAL CONJUGATE OF } X(44),\ \left(l^{10}+7 l^8 r^2+30 l^6 r^4+34 l^4 r^6-63 l^2 r^8-9 r^{10}-40 l^8 r R-192 l^6 r^3 R-496 l^4 r^5 R+288 l^2 r^7 R-72 r^9 R+504 l^6 r^2 R^2+1276 l^4 r^4 R^2+432 l^2 r^6 R^2-36 r^8 R^2-1632 l^4 r^3 R^3+720 l^2 r^5 R^3+720 r^7 R^3-4464 l^2 r^4 R^4+576 r^6 R^4-2304 r^5 R^5\right)\Big/\left(\left(l^2+3 r^2-15 r R\right)^2\left(l^2-r^2-4 r R\right)^2\right)\}$$

$$\{X69,\ \text{SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},\ X89,\ \text{ISOGONAL CONJUGATE OF } X(45),\ \left(4\left(l^{10}+7 l^8 r^2-66 l^6 r^4+130 l^4 r^6-63 l^2 r^8-9 r^{10}-10 l^8 r R+152 l^4 r^5 R-144 l^2 r^7 R-126 r^9 R-99 l^6 r^2 R^2+313 l^4 r^4 R^2+27 l^2 r^6 R^2-657 r^8 R^2+12 l^4 r^3 R^3+720 l^2 r^5 R^3-1548 r^7 R^3+612 l^2 r^4 R^4-1584 r^6 R^4-576 r^5 R^5\right)\right)\Big/\left(\left(l^2-r^2-4 r R\right)^2\left(2 l^2-6 r^2+3 r R\right)^2\right)\}$$

$$\{X69,\ \text{SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},\ X90,\ X(3)\text{-CROSS CONJUGATE OF } X(1),\ -\left(\left(l^6 r^4-9 l^4 r^6+7 l^2 r^8+r^{10}-2 l^6 r^3 R-18 l^4 r^5 R+34 l^2 r^7 R+18 r^9 R+32 l^4 r^4 R^2+16 l^2 r^6 R^2+128 r^8 R^2+2 l^6 r R^3+10 l^4 r^3 R^3-74 l^2 r^5 R^3+446 r^7 R^3-l^6 R^4-31 l^4 r^2 R^4-39 l^2 r^4 R^4+743 r^6 R^4+16 l^4 r R^5-72 l^2 r^3 R^5+408 r^5 R^5-144 r^4 R^6\right)\Big/\left(\left(l^2-r^2-4 r R\right)^2\left(r^2+2 r R-R^2\right)^2\right)\right)\}$$

$$\{X69,\ \text{SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},\ X91,\ \text{ISOGONAL CONJUGATE OF } X(47),\ \frac{1}{\left(l^2-r^2-4 r R\right)^2\left(l^2 r+r^3-l^2 R+3 r^2 R+2 r R^2+2 R^3\right)^2}\ R\left(-8 l^8 r^3+56 l^6 r^5-56 l^4 r^7+8 l^2 r^9+l^{10} R-11 l^8 r^2 R+134 l^6 r^4 R-562 l^4 r^6 R+121 l^2 r^8 R-3 r^{10} R-24 l^8 r R^2+312 l^6 r^3 R^2-1400 l^4 r^5 R^2+776 l^2 r^7 R^2-48 r^9 R^2-4 l^8 R^3+168 l^6 r^2 R^3-1328 l^4 r^4 R^3+2168 l^2 r^6 R^3-300 r^8 R^3+80 l^6 r R^4-976 l^4 r^3 R^4+2576 l^2 r^5 R^4-912 r^7 R^4+4 l^6 R^5-260 l^4 r^2 R^5+1148 l^2 r^4 R^5-1340 r^6 R^5-64 l^4 r R^6+416 l^2 r^3 R^6-736 r^5 R^6+64 r^4 R^7\right)\}$$

{X69, SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE,
X92, CEVAPOINT OF INCENTER AND CLAWSON POINT,
$(16 r^2 R (2 l^6 r - 4 l^4 r^3 + 2 l^2 r^5 + 3 l^6 R - 35 l^4 r^2 R + 21 l^2 r^4 R - r^6 R - 64 l^4 r R^2 + 112 l^2 r^3 R^2 - 16 r^5 R^2 - 12 l^4 R^3 + 272 l^2 r^2 R^3 - 100 r^4 R^3 + 240 l^2 r R^4 - 304 r^3 R^4 + 16 l^2 R^5 - 448 r^2 R^5 - 256 r R^6)) / ((l^2 - r^2 - 4 r R)^2 (l^2 + r^2 - 4 R^2)^2)$}

{X69, SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE, X93, ISOGONAL CONJUGATE OF X(49),
$-((4 R^2 (4 l^{10} r^2 - 16 l^8 r^4 + 216 l^6 r^6 - 16 l^4 r^8 + 4 l^2 r^{10} - 64 l^8 r^3 R + 192 l^6 r^5 R - 192 l^4 r^7 R + 64 l^2 r^9 R - 2 l^{10} R^2 - 14 l^8 r^2 R^2 - 12 l^6 r^4 R^2 - 372 l^4 r^6 R^2 + 398 l^2 r^8 R^2 + 2 r^{10} R^2 + 40 l^8 r R^3 + 128 l^6 r^3 R^3 + 432 l^4 r^5 R^3 + 1152 l^2 r^7 R^3 + 40 r^9 R^3 + 12 l^8 R^4 - 68 l^6 r^2 R^4 + 528 l^4 r^4 R^4 + 1468 l^2 r^6 R^4 + 332 r^8 R^4 - 192 l^6 r R^5 - 544 l^4 r^3 R^5 + 800 l^2 r^5 R^5 + 1472 r^7 R^5 - 18 l^6 R^6 - 250 l^4 r^2 R^6 + 1338 l^2 r^4 R^6 + 3730 r^6 R^6 + 216 l^4 r R^7 + 2320 l^2 r^3 R^7 + 5336 r^5 R^7 - l^4 R^8 + 1166 l^2 r^2 R^8 + 3935 r^4 R^8 + 8 l^2 r R^9 + 1144 r^3 R^9 - 16 r^2 R^{10})) / ((l^2 - r^2 - 4 r R)^2 (l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 8 l^2 R^2 + 24 r^2 R^2 + 32 r R^3 + 13 R^4)^2))$}

{X69, SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE, X94, ISOGONAL CONJUGATE OF X(50),
$-((4 R^2 (12 l^{10} r^2 - 16 l^8 r^4 + 200 l^6 r^6 - 16 l^4 r^8 + 12 l^2 r^{10} - 192 l^8 r^3 R + 320 l^6 r^5 R - 320 l^4 r^7 R + 192 l^2 r^9 R - 9 l^{10} R^2 - 99 l^8 r^2 R^2 + 486 l^6 r^4 R^2 - 1126 l^4 r^6 R^2 + 1251 l^2 r^8 R^2 + 9 r^{10} R^2 + 180 l^8 r R^3 + 1008 l^6 r^3 R^3 - 1416 l^4 r^5 R^3 + 4080 l^2 r^7 R^3 + 180 r^9 R^3 + 54 l^8 R^4 - 36 l^6 r^2 R^4 - 2916 l^4 r^4 R^4 + 7068 l^2 r^6 R^4 + 1494 r^8 R^4 - 864 l^6 r R^5 - 4608 l^4 r^3 R^5 + 8064 l^2 r^5 R^5 + 6624 r^7 R^5 - 81 l^6 R^6 - 1377 l^4 r^2 R^6 + 10593 l^2 r^4 R^6 + 16785 r^6 R^6 + 972 l^4 r R^7 + 11448 l^2 r^3 R^7 + 24012 r^5 R^7 + 4860 l^2 r^2 R^8 + 17712 r^4 R^8 + 5184 r^3 R^9)) / ((l^2 - r^2 - 4 r R)^2 (l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 12 l^2 R^2 + 28 r^2 R^2 + 48 r R^3 + 27 R^4)^2))$}

{X69, SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE,
X95, CEVAPOINT OF CENTROID AND CIRCUMCENTER,
$(64 l^4 r^4 (2 l^6 + 34 l^4 r^2 - 34 l^2 r^4 - 2 r^6 - 24 l^4 r R - 112 l^2 r^3 R - 24 r^5 R + l^4 R^2 - 206 l^2 r^2 R^2 - 95 r^4 R^2 - 8 l^2 r R^3 - 120 r^3 R^3 + 16 r^2 R^4)) / ((l^2 - r^2 - 4 r R)^2 (l^4 + 18 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 4 l^2 R^2 + 20 r^2 R^2 + 16 r R^3)^2)$}

{X69, SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE, X96, ISOGONAL CONJUGATE OF X(52),
$(4 (4 l^{12} r^2 - 84 l^{10} r^4 + 424 l^8 r^6 - 424 l^6 r^8 + 84 l^4 r^{10} - 4 l^2 r^{12} - 80 l^{10} r^3 R + 1088 l^8 r^5 R - 2784 l^6 r^7 R + 1088 l^4 r^9 R - 80 l^2 r^{11} R + 3 l^{12} R^2 - 90 l^{10} r^2 R^2 + 1677 l^8 r^4 R^2 - 8620 l^6 r^6 R^2 + 6029 l^4 r^8 R^2 - 730 l^2 r^{10} R^2 + 3 r^{12} R^2 - 72 l^{10} r R^3 + 1512 l^8 r^3 R^3 - 12368 l^6 r^5 R^3 + 19024 l^4 r^7 R^3 - 4072 l^2 r^9 R^3 + 72 r^{11} R^3 - 16 l^{10} R^4 + 912 l^8 r^2 R^4 - 10800 l^6 r^4 R^4 + 35536 l^4 r^6 R^4 - 15104 l^2 r^8 R^4 + 736 r^{10} R^4 + 320 l^8 r R^5 - 6464 l^6 r^3 R^5 + 36608 l^4 r^5 R^5 - 36672 l^2 r^7 R^5 + 4160 r^9 R^5 + 32 l^8 R^6 - 2512 l^6 r^2 R^6 + 23264 l^4 r^4 R^6 - 54480 l^2 r^6 R^6 + 14112 r^8 R^6 - 512 l^6 r R^7 + 10368 l^4 r^3 R^7 - 46208 l^2 r^5 R^7 + 29184 r^7 R^7 - 32 l^6 R^8 + 2976 l^4 r^2 R^8 - 23712 l^2 r^4 R^8 + 35872 r^6 R^8 + 384 l^4 r R^9 - 8192 l^2 r^3 R^9 + 24960 r^5 R^9 + 16 l^4 R^{10} - 1760 l^2 r^2 R^{10} + 9744 r^4 R^{10} - 128 l^2 r R^{11} + 2176 r^3 R^{11} + 256 r^2 R^{12})) / ((l^2 - r^2 - 4 r R)^2 (l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2 - 4 R^4)^2)$}

{X69, SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE, X97, ISOGONAL CONJUGATE OF X(53),
$(l^{14} + l^{12} r^2 - 99 l^{10} r^4 + 413 l^8 r^6 - 413 l^6 r^8 + 99 l^4 r^{10} - l^2 r^{12} - r^{14} - 28 l^{12} r R + 8 l^{10} r^3 R + 1180 l^8 r^5 R - 2832 l^6 r^7 R + 1180 l^4 r^9 R + 8 l^2 r^{11} R - 28 r^{13} R - 12 l^{12} R^2 + 180 l^{10} r^2 R^2 + 1404 l^8 r^4 R^2 - 8360 l^6 r^6 R^2 + 6124 l^4 r^8 R^2 + 244 l^2 r^{10} R^2 - 348 r^{12} R^2 + 288 l^{10} r R^3 - 32 l^8 r^3 R^3 - 12800 l^6 r^5 R^3 + 18560 l^4 r^7 R^3 + 1632 l^2 r^9 R^3 - 2528 r^{11} R^3 + 52 l^{10} R^4 - 1252 l^8 r^2 R^4 - 10648 l^6 r^4 R^4 + 36248 l^4 r^6 R^4 + 4644 l^2 r^8 R^4 - 11892 r^{10} R^4 - 1040 l^8 r R^5 - 3136 l^6 r^3 R^5 + 46240 l^4 r^5 R^5 + 4032 l^2 r^7 R^5 - 37904 r^9 R^5 - 96 l^8 R^6 + 1936 l^6 r^2 R^6 + 37152 l^4 r^4 R^6 - 9584 l^2 r^6 R^6 - 83168 r^8 R^6 + 1536 l^6 r R^7 + 16256 l^4 r^3 R^7 - 30080 l^2 r^5 R^7 - 124928 r^7 R^7 + 64 l^6 R^8 + 1728 l^4 r^2 R^8 - 34240 l^2 r^4 R^8 - 124992 r^6 R^8 - 768 l^4 r R^9 - 18432 l^2 r^3 R^9 - 78592 r^5 R^9 - 3840 l^2 r^2 R^{10} - 27648 r^4 R^{10} - 4096 r^3 R^{11}) / ((l^2 - r^2 - 4 r R)^2 (l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 7 l^2 R^2 + 23 r^2 R^2 + 28 r R^3 + 12 R^4)^2)$}

$$\{X69,\ \text{SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},\ X98,\ \text{TarryPoint},$$
$$\big(4\,(4\,l^8 r^2 - 28\,l^6 r^4 + 28\,l^4 r^6 - 4\,l^2 r^8 - 48\,l^6 r^3 R + 160\,l^4 r^5 R - 48\,l^2 r^7 R + l^8 R^2 - 40\,l^6 r^2 R^2 + 414\,l^4 r^4 R^2 - 232\,l^2 r^6 R^2 + r^8 R^2 - 16\,l^6 r R^3 + 336\,l^4 r^3 R^3 - 592\,l^2 r^5 R^3 + 16\,r^7 R^3 + 96\,l^4 r^2 R^4 - 768\,l^2 r^4 R^4 + 96\,r^6 R^4 - 256\,l^2 r^3 R^5 + 256\,r^5 R^5 + 256\,r^4 R^6)\big) \big/ \big((l^2 - r^2 - 4\,r R)^2\,(l^4 - 14\,l^2 r^2 + r^4 - 8\,l^2 r R + 8\,r^3 R + 16\,r^2 R^2)\big)\}$$

$$\{X69,\ \text{SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},\ X99,\ \text{STEINER POINT},\ -\frac{64\,l^4 r^4\,(2\,l^2 - 2\,r^2 - 8\,r R - 9\,R^2)}{(l^2 - r^2 - 4\,r R)^2\,(l^4 - 14\,l^2 r^2 + r^4 - 8\,l^2 r R + 8\,r^3 R + 16\,r^2 R^2)}\}$$

$$\{X69,\ \text{SYMMEDIAN POINT OF THE ANTICOMPLEMENTARY TRIANGLE},\ X100,\ \text{ANTICOMPLEMENT OF FEUERBACH POINT},\ \frac{4\,r^2\,(4\,l^4 r - 4\,l^2 r^3 + l^4 R - 18\,l^2 r^2 R + r^4 R - 36\,l^2 r R^2 + 12\,r^3 R^2 - 4\,l^2 R^3 + 48\,r^2 R^3 + 64\,r R^4)}{(2\,r - R)\,(-l^2 + r^2 + 4\,r R)^2}\}$$

$$\{X70,\ \text{ISOGONAL CONJUGATE OF X(26)},\ X71,\ \text{ISOGONAL CONJUGATE OF X(27)},$$
$$-\big(\big((l^4 - r^4 - 8\,r^3 R - l^2 R^2 - 21\,r^2 R^2 - 20\,r R^3 - 4\,R^4)^2\,(2\,l^6 - 8\,l^4 r^2 + 6\,l^2 r^4 - 24\,l^4 r R + 40\,l^2 r^3 R - 12\,l^4 R^2 + 92\,l^2 r^2 R^2 + 80\,l^2 r R^3 + 19\,l^2 R^4 - r^2 R^4 - 8\,r R^5 - 16\,R^6)\big) \big/ \big((l^2 + r^2 + 6\,r R + 8\,R^2)^2\,(l^4 - 2\,l^2 r^2 + r^4 - 8\,l^2 r R + 8\,r^3 R - 6\,l^2 R^2 + 22\,r^2 R^2 + 24\,r R^3 + 7\,R^4)^2\big)\big)\}$$

$$\{X70,\ \text{ISOGONAL CONJUGATE OF X(26)},\ X72,\ \text{ISOGONAL CONJUGATE OF X(28)},$$
$$\big((-l^2 r + r^3 - l^2 R + 5\,r^2 R + 7\,r R^2 + 2\,R^3)^2\,(-2\,l^4 r + 4\,l^2 r^3 - 2\,r^5 - l^4 R + 22\,l^2 r^2 R - 21\,r^4 R + 32\,l^2 r R^2 - 80\,r^3 R^2 + 4\,l^2 R^3 - 132\,r^2 R^3 - 82\,r R^4 + R^5)\big) \big/ \big(R\,(l^4 - 2\,l^2 r^2 + r^4 - 8\,l^2 r R + 8\,r^3 R - 6\,l^2 R^2 + 22\,r^2 R^2 + 24\,r R^3 + 7\,R^4)^2\big)\}$$

$$\{X70,\ \text{ISOGONAL CONJUGATE OF X(26)},\ X73,\ \text{CROSSPOINT OF INCENTER AND CIRCUMCENTER},$$
$$\big((l^4 - r^4 - 4\,l^2 r R - 4\,r^3 R - 5\,l^2 R^2 - r^2 R^2 + 8\,r R^3 + 4\,R^4)^2\,(6\,l^4 r^2 - 8\,l^2 r^4 + 2\,r^6 - 4\,l^4 r R - 32\,l^2 r^3 R + 20\,r^5 R - 20\,l^2 r^2 R^2 + 68\,r^4 R^2 + 32\,l^2 r R^3 + 80\,r^3 R^3 - l^2 R^4 - 13\,r^2 R^4 - 60\,r R^5 + 4\,R^6)\big) \big/ \big((l^2 + r^2 - 2\,r R - 4\,R^2)^2\,(l^4 - 2\,l^2 r^2 + r^4 - 8\,l^2 r R + 8\,r^3 R - 6\,l^2 R^2 + 22\,r^2 R^2 + 24\,r R^3 + 7\,R^4)^2\big)\}$$

$$\{X70,\ \text{ISOGONAL CONJUGATE OF X(26)},\ X74,\ \text{ISOGONAL CONJUGATE OF EULER INFINITY POINT},\ -\big(\big((1 - r - 2\,R)^2\,(1 + r + 2\,R)^2\,(3\,l^8 - 16\,l^6 r^2 + 26\,l^4 r^4 - 16\,l^2 r^6 + 3\,r^8 - 48\,l^6 r R + 176\,l^4 r^3 R - 176\,l^2 r^5 R + 48\,r^7 R - 36\,l^6 R^2 + 428\,l^4 r^2 R^2 - 780\,l^2 r^4 R^2 + 324\,r^6 R^2 + 432\,l^4 r R^3 - 1760\,l^2 r^3 R^3 + 1200\,r^5 R^3 + 149\,l^4 R^4 - 2086\,l^2 r^2 R^4 + 2645\,r^4 R^4 - 1192\,l^2 r R^5 + 3496\,r^3 R^5 - 248\,l^2 R^6 + 2632\,r^2 R^6 + 992\,r R^7 + 144\,R^8)\big) \big/ \big((2\,l^2 - 2\,r^2 - 8\,r R - 9\,R^2)\,(l^4 - 2\,l^2 r^2 + r^4 - 8\,l^2 r R + 8\,r^3 R - 6\,l^2 R^2 + 22\,r^2 R^2 + 24\,r R^3 + 7\,R^4)^2\big)\big)\}$$

$$\{X70,\ \text{ISOGONAL CONJUGATE OF X(26)},\ X75,\ \text{ISOTOMIC CONJUGATE OF INCENTER},$$
$$-\big(\big(R\,(8\,l^{12} r - 72\,l^{10} r^3 + 176\,l^8 r^5 - 176\,l^6 r^7 + 72\,l^4 r^9 - 8\,l^2 r^{11} + l^{12} R - 190\,l^{10} r^2 R + 1119\,l^8 r^4 R - 1828\,l^6 r^6 R + 1055\,l^4 r^8 R - 158\,l^2 r^{10} R + r^{12} R - 112\,l^{10} r R^2 + 2392\,l^8 r^3 R^2 - 7456\,l^6 r^5 R^2 + 6544\,l^4 r^7 R^2 - 1392\,l^2 r^9 R^2 + 24\,r^{11} R^2 - 8\,l^{10} R^3 + 1896\,l^8 r^2 R^3 - 14\,816\,l^6 r^4 R^3 + 22\,048\,l^4 r^6 R^3 - 7064\,l^2 r^8 R^3 + 248\,r^{10} R^3 + 504\,l^8 r R^4 - 14\,312\,l^6 r^3 R^4 + 42\,856\,l^4 r^5 R^4 - 22\,296\,l^2 r^7 R^4 + 1440\,r^9 R^4 + 19\,l^8 R^5 - 5972\,l^6 r^2 R^5 + 47\,058\,l^4 r^4 R^5 - 44\,340\,l^2 r^6 R^5 + 5139\,r^8 R^5 - 872\,l^6 r R^6 + 26\,624\,l^4 r^3 R^6 - 53\,992\,l^2 r^5 R^6 + 11\,568\,r^7 R^6 - 12\,l^6 R^7 + 6436\,l^4 r^2 R^7 - 37\,284\,l^2 r^4 R^7 + 16\,172\,r^6 R^7 + 512\,l^4 r R^8 - 12\,496\,l^2 r^3 R^8 + 13\,200\,r^5 R^8 - 4\,l^4 R^9 - 1496\,l^2 r^2 R^9 + 5436\,r^4 R^9 - 32\,l^2 r R^{10} + 736\,r^3 R^{10} - 64\,r^2 R^{11})\big) \big/ \big((l^2 + r^2 + 4\,r R)^2\,(l^4 - 2\,l^2 r^2 + r^4 - 8\,l^2 r R + 8\,r^3 R - 6\,l^2 R^2 + 22\,r^2 R^2 + 24\,r R^3 + 7\,R^4)^2\big)\big)\}$$

{X70, ISOGONAL CONJUGATE OF X(26), X76, 3rd BROCARD POINT,

$$-\left(\left(R^2\left(l^{16}+20 l^{14} r^2-284 l^{12} r^4+1004 l^{10} r^6-1482 l^8 r^8+1004 l^6 r^{10}-284 l^4 r^{12}+20 l^2 r^{14}+r^{16}-32 l^{14} r R-448 l^{12} r^3 R+4992 l^{10} r^5 R-13024 l^8 r^7 R+13024 l^6 r^9 R-4992 l^4 r^{11} R+448 l^2 r^{13} R+32 r^{15} R-8 l^{14} R^2+120 l^{12} r^2 R^2+7320 l^{10} r^4 R^2-42664 l^8 r^6 R^2+68712 l^6 r^8 R^2-37272 l^4 r^{10} R^2+4360 l^2 r^{12} R^2+456 r^{14} R^2+224 l^{12} r R^3+2752 l^{10} r^3 R^3-63712 l^8 r^5 R^3+189056 l^6 r^7 R^3-154336 l^4 r^9 R^3+24256 l^2 r^{11} R^3+3808 r^{13} R^3+19 l^{12} R^4-958 l^{10} r^2 R^4-42659 l^8 r^4 R^4+289628 l^6 r^6 R^4-388131 l^4 r^8 R^4+85570 l^2 r^{10} R^4+20627 r^{12} R^4-456 l^{10} r R^5-9304 l^8 r^3 R^5+244592 l^6 r^5 R^5-610160 l^4 r^7 R^5+201304 l^2 r^9 R^5+75720 r^{11} R^5-12 l^{10} R^6+972 l^8 r^2 R^6+105032 l^6 r^4 R^6-594216 l^4 r^6 R^6+324164 l^2 r^8 R^6+190940 r^{10} R^6+240 l^8 r R^7+18496 l^6 r^3 R^7-341600 l^4 r^5 R^7+360000 l^2 r^7 R^7+327664 r^9 R^7-4 l^8 R^8+640 l^6 r^2 R^8-103800 l^4 r^4 R^8+268672 l^2 r^6 R^8+369788 r^8 R^8+64 l^6 r R^9-12864 l^4 r^3 R^9+121920 l^2 r^5 R^9+255424 r^7 R^9-384 l^4 r^2 R^{10}+26112 l^2 r^4 R^{10}+92800 r^6 R^{10}+1024 l^2 r^3 R^{11}+11264 r^5 R^{11}-1024 r^4 R^{12}\right)\right)\Big/\left(\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)^2\left(l^4-2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-6 l^2 R^2+22 r^2 R^2+24 r R^3+7 R^4\right)^2\right)\right)\}$$

{X70, ISOGONAL CONJUGATE OF X(26), X77, ISOGONAL CONJUGATE OF X(33),

$$\left(6 l^{12} r^2-20 l^{10} r^4+24 l^8 r^6-12 l^6 r^8+2 l^4 r^{10}-5 l^{12} r R-69 l^{10} r^3 R+190 l^8 r^5 R-154 l^6 r^7 R+39 l^4 r^9 R-l^2 r^{11} R-22 l^{10} r^2 R^2+528 l^8 r^4 R^2-820 l^6 r^6 R^2+336 l^4 r^8 R^2-22 l^2 r^{10} R^2+87 l^{10} r R^3+438 l^8 r^3 R^3-2172 l^6 r^5 R^3+1594 l^4 r^7 R^3-203 l^2 r^9 R^3-l^{10} R^4-440 l^8 r^2 R^4-2429 l^6 r^4 R^4+4265 l^4 r^6 R^4-1010 l^2 r^8 R^4-r^{10} R^4-591 l^8 r R^5+671 l^6 r^3 R^5+5551 l^4 r^5 R^5-2807 l^2 r^7 R^5-24 r^9 R^5+14 l^8 R^6+3666 l^6 r^2 R^6-70 l^4 r^4 R^6-3538 l^2 r^6 R^6-248 r^8 R^6+1971 l^6 r R^7-9708 l^4 r^3 R^7+2201 l^2 r^5 R^7-1440 r^7 R^7-73 l^6 R^8-10650 l^4 r^2 R^8+14672 l^2 r^4 R^8-5139 r^6 R^8-3318 l^4 r R^9+21078 l^2 r^3 R^9-11568 r^5 R^9+172 l^4 R^{10}+12952 l^2 r^2 R^{10}-16172 r^4 R^{10}+2592 l^2 r R^{11}-13200 r^3 R^{11}-176 l^2 R^{12}-5436 r^2 R^{12}-736 r R^{13}+64 R^{14}\right)\Big/\left(\left(l^2-r R-4 R^2\right)^2\left(l^4-2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-6 l^2 R^2+22 r^2 R^2+24 r R^3+7 R^4\right)^2\right)\}$$

{X70, ISOGONAL CONJUGATE OF X(26), X78, ISOGONAL CONJUGATE OF X(34),

$$\left(6 l^8 r^4-20 l^6 r^6+24 l^4 r^8-12 l^2 r^{10}+2 r^{12}+l^{10} r R-7 l^8 r^3 R-70 l^6 r^5 R+194 l^4 r^7 R-155 l^2 r^9 R+37 r^{11} R-26 l^8 r^2 R^2+40 l^6 r^4 R^2+476 l^4 r^6 R^2-776 l^2 r^8 R^2+286 r^{10} R^2-15 l^8 r R^3+330 l^6 r^3 R^3-20 l^4 r^5 R^3-1722 l^2 r^7 R^3+1171 r^9 R^3-l^8 R^4+333 l^6 r^2 R^4-1825 l^4 r^4 R^4-669 l^2 r^6 R^4+2546 r^8 R^4+111 l^6 r R^5-2863 l^4 r^3 R^5+4729 l^2 r^5 R^5+1847 r^7 R^5+8 l^6 R^6-1728 l^4 r^2 R^6+10360 l^2 r^4 R^6-4464 r^6 R^6-403 l^4 r R^7+9356 l^2 r^3 R^7-13689 r^5 R^7-19 l^4 R^8+3911 l^2 r^2 R^8-16458 r^4 R^8+634 l^2 r R^9-10178 r^3 R^9+12 l^2 R^{10}-3052 r^2 R^{10}-336 r R^{11}+4 R^{12}\right)\Big/\left((r-R)^2\left(l^4-2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-6 l^2 R^2+22 r^2 R^2+24 r R^3+7 R^4\right)^2\right)\}$$

{X70, ISOGONAL CONJUGATE OF X(26), X79, ISOGONAL CONJUGATE OF X(35),

$$-\left(\left(R\left(-12 l^{10} r+40 l^8 r^3-48 l^6 r^5+24 l^4 r^7-4 l^2 r^9+190 l^8 r^2 R-460 l^6 r^4 R+352 l^4 r^6 R-84 l^2 r^8 R+2 r^{10} R+168 l^8 r R^2-1532 l^6 r^3 R^2+2092 l^4 r^5 R^2-772 l^2 r^7 R^2+44 r^9 R^2-2036 l^6 r^2 R^3+6276 l^4 r^4 R^3-3884 l^2 r^6 R^3+412 r^8 R^3-876 l^6 r R^4+9848 l^4 r^3 R^4-11508 l^2 r^5 R^4+2152 r^7 R^4+9 l^6 R^5+7441 l^4 r^2 R^5-20337 l^2 r^4 R^5+6887 r^6 R^5+2004 l^4 r R^6-20580 l^2 r^3 R^6+13912 r^5 R^6-54 l^4 R^7-10536 l^2 r^2 R^7+17518 r^4 R^7-1920 l^2 r R^8+12952 r^3 R^8+81 l^2 R^9+4877 r^2 R^9+636 r R^{10}-36 R^{11}\right)\right)\Big/\left((2 r+3 R)^2\left(l^4-2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-6 l^2 R^2+22 r^2 R^2+24 r R^3+7 R^4\right)^2\right)\right)\}$$

{X70, ISOGONAL CONJUGATE OF X(26), X80, REFLECTION OF INCENTER IN FEUERBACH POINT,

$$-\left(\left(R\left(2 l^8 r^2-12 l^6 r^4+24 l^4 r^6-20 l^2 r^8+6 r^{10}-36 l^6 r^3 R+164 l^4 r^5 R-220 l^2 r^7 R+92 r^9 R-32 l^6 r^2 R^2+400 l^4 r^4 R^2-960 l^2 r^6 R^2+592 r^8 R^2+2 l^6 r R^3+414 l^4 r^3 R^3-2114 l^2 r^5 R^3+2082 r^7 R^3-l^6 R^4+159 l^4 r^2 R^4-2463 l^2 r^4 R^4+4353 r^6 R^4-1444 l^2 r^3 R^5+5484 r^5 R^5+6 l^4 R^6-364 l^2 r^2 R^6+4014 r^4 R^6-30 l^2 r R^7+1570 r^3 R^7-9 l^2 R^8+299 r^2 R^8+28 r R^9+4 R^{10}\right)\right)\Big/\left((2 r-R)\left(l^4-2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-6 l^2 R^2+22 r^2 R^2+24 r R^3+7 R^4\right)^2\right)\right)\}$$

$$\{X70,\ \text{ISOGONAL CONJUGATE OF } X(26),\ X81,\ \text{CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},$$
$$\Big(8 l^{12} r^2 - 40 l^{10} r^4 + 80 l^8 r^6 - 80 l^6 r^8 + 40 l^4 r^{10} - 8 l^2 r^{12} - l^{12} r R - 126 l^{10} r^3 R + 513 l^8 r^5 R -$$
$$772 l^6 r^7 R + 513 l^4 r^9 R - 126 l^2 r^{11} R - r^{13} R - 94 l^{10} r^2 R^2 + 1210 l^8 r^4 R^2 - 3044 l^6 r^6 R^2 +$$
$$2812 l^4 r^8 R^2 - 862 l^2 r^{10} R^2 - 22 r^{12} R^2 + 11 l^{10} r R^3 + 1253 l^8 r^3 R^3 - 6334 l^6 r^5 R^3 + 8654 l^4 r^7 R^3 -$$
$$3373 l^2 r^9 R^3 - 211 r^{11} R^3 - l^{10} R^4 + 434 l^8 r^2 R^4 - 7350 l^6 r^4 R^4 + 16468 l^4 r^6 R^4 - 8393 l^2 r^8 R^4 -$$
$$1158 r^{10} R^4 - 27 l^8 r R^5 - 4456 l^6 r^3 R^5 + 19990 l^4 r^5 R^5 - 14056 l^2 r^7 R^5 - 4011 r^9 R^5 +$$
$$6 l^8 R^6 - 1042 l^6 r^2 R^6 + 15186 l^4 r^4 R^6 - 16494 l^2 r^6 R^6 - 9112 r^8 R^6 - l^6 r R^7 + 6543 l^4 r^3 R^7 -$$
$$13927 l^2 r^5 R^7 - 13639 r^7 R^7 - 9 l^6 R^8 + 1206 l^4 r^2 R^8 - 8281 l^2 r^4 R^8 - 13112 r^6 R^8 + 26 l^4 r R^9 -$$
$$3020 l^2 r^3 R^9 - 7582 r^5 R^9 + 4 l^4 R^{10} - 488 l^2 r^2 R^{10} - 2296 r^4 R^{10} - 8 l^2 r R^{11} - 264 r^3 R^{11} + 4 r^2 R^{12}\Big) \Big/$$
$$\Big(\big(l^2 - r^2 - r R\big)^2 \big(l^4 - 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 6 l^2 R^2 + 22 r^2 R^2 + 24 r R^3 + 7 R^4\big)^2\Big)\}$$

$$\{X70,\ \text{ISOGONAL CONJUGATE OF } X(26),\ X82,\ \text{ISOGONAL CONJUGATE OF } X(38),$$
$$\Big(10 l^{16} r^2 - 100 l^{14} r^4 + 412 l^{12} r^6 - 916 l^{10} r^8 + 1200 l^8 r^{10} - 940 l^6 r^{12} + 420 l^4 r^{14} - 92 l^2 r^{16} + 6 r^{18} -$$
$$l^{16} r R - 308 l^{14} r^3 R + 2672 l^{12} r^5 R - 9236 l^{10} r^7 R + 16614 l^8 r^9 R - 16700 l^6 r^{11} R + 9192 l^4 r^{13} R -$$
$$2428 l^2 r^{15} R + 195 r^{17} R - 102 l^{14} r^2 R^2 + 5350 l^{12} r^4 R^2 - 34750 l^{10} r^6 R^2 + 93214 l^8 r^8 R^2 -$$
$$125970 l^6 r^{10} R^2 + 88018 l^4 r^{12} R^2 - 28618 l^2 r^{14} R^2 + 2858 r^{16} R^2 + 11 l^{14} r R^3 + 3187 l^{12} r^3 R^3 -$$
$$59241 l^{10} r^5 R^3 + 270223 l^8 r^7 R^3 - 523983 l^6 r^9 R^3 + 483209 l^4 r^{11} R^3 - 198355 l^2 r^{13} R^3 + 24949 r^{15} R^3 -$$
$$l^{14} R^4 + 368 l^{12} r^2 R^4 - 44071 l^{10} r^4 R^4 + 426790 l^8 r^6 R^4 - 1305167 l^6 r^8 R^4 + 1673284 l^4 r^{10} R^4 -$$
$$895497 l^2 r^{12} R^4 + 144294 r^{14} R^4 - 11 l^{12} r R^5 - 12178 l^{10} r^3 R^5 + 355799 l^8 r^5 R^5 - 1977468 l^6 r^7 R^5 +$$
$$3786195 l^4 r^9 R^5 - 2754546 l^2 r^{11} R^5 + 581729 r^{13} R^5 + 6 l^{12} R^6 - 950 l^{10} r^2 R^6 + 141864 l^8 r^4 R^6 -$$
$$1771012 l^6 r^6 R^6 + 5606286 l^4 r^8 R^6 - 5864774 l^2 r^{10} R^6 + 1674308 r^{12} R^6 - 97 l^{10} r R^7 + 23661 l^8 r^3 R^7 -$$
$$873498 l^6 r^5 R^7 + 5291690 l^4 r^7 R^7 - 8601861 l^2 r^9 R^7 + 3463529 r^{11} R^7 - 9 l^{10} R^8 + 2074 l^8 r^2 R^8 -$$
$$214246 l^6 r^4 R^8 + 3011480 l^4 r^6 R^8 - 8485545 l^2 r^8 R^8 + 5113014 r^{10} R^8 + 170 l^8 r R^9 - 25776 l^6 r^3 R^9 +$$
$$948916 l^4 r^5 R^9 - 5378016 l^2 r^7 R^9 + 5274386 r^9 R^9 + 4 l^8 R^{10} - 1920 l^6 r^2 R^{10} + 153344 l^4 r^4 R^{10} -$$
$$2038128 l^2 r^6 R^{10} + 3662412 r^8 R^{10} - 72 l^6 r R^{11} + 12904 l^4 r^3 R^{11} - 421064 l^2 r^5 R^{11} + 1615080 r^7 R^{11} +$$
$$548 l^4 r^2 R^{12} - 43592 l^2 r^4 R^{12} + 415172 r^6 R^{12} - 2016 l^2 r^3 R^{13} + 54432 r^5 R^{13} + 3136 r^4 R^{14}\Big) \Big/$$
$$\Big(\big(l^4 - 4 l^2 r^2 + 3 r^4 - 9 l^2 r R + 19 r^3 R + 28 r^2 R^2\big)^2$$
$$\big(l^4 - 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 6 l^2 R^2 + 22 r^2 R^2 + 24 r R^3 + 7 R^4\big)^2\Big)\}$$

$$\{X70,\ \text{ISOGONAL CONJUGATE OF } X(26),\ X83,\ \text{CEVAPOINT OF CENTROID AND SYMMEDIAN POINT},$$
$$-\Big(\Big(4 l^{18} - 164 l^{16} r^2 + 976 l^{14} r^4 - 2704 l^{12} r^6 + 4344 l^{10} r^8 - 4344 l^8 r^{10} + 2704 l^6 r^{12} - 976 l^4 r^{14} +$$
$$164 l^2 r^{16} - 4 r^{18} - 144 l^{16} r R + 4736 l^{14} r^3 R - 24256 l^{12} r^5 R + 56704 l^{10} r^7 R - 74080 l^8 r^9 R +$$
$$56704 l^6 r^{11} R - 24256 l^4 r^{13} R + 4736 l^2 r^{15} R - 144 r^{17} R - 43 l^{16} R^2 + 4276 l^{14} r^2 R^2 - 69292 l^{12} r^4 R^2 +$$
$$276812 l^{10} r^6 R^2 - 510802 l^8 r^8 R^2 + 503628 l^6 r^{10} R^2 - 263340 l^4 r^{12} R^2 + 61108 l^2 r^{14} R^2 -$$
$$2347 r^{16} R^2 + 1376 l^{14} r R^3 - 70208 l^{12} r^3 R^3 + 626944 l^{10} r^5 R^3 - 1828704 l^8 r^7 R^3 + 2468704 l^6 r^9 R^3 -$$
$$1639680 l^4 r^{11} R^3 + 464448 l^2 r^{13} R^3 - 22880 r^{15} R^3 + 180 l^{14} R^4 - 28076 l^{12} r^2 R^4 + 673348 l^{10} r^4 R^4 -$$
$$3637276 l^8 r^6 R^4 + 7294684 l^6 r^8 R^4 - 6460484 l^4 r^{10} R^4 + 2307116 l^2 r^{12} R^4 - 148468 r^{14} R^4 -$$
$$5040 l^{12} r R^5 + 335392 l^{10} r^3 R^5 - 4008016 l^8 r^5 R^5 + 13325248 l^6 r^7 R^5 - 16757328 l^4 r^9 R^5 +$$
$$7852576 l^2 r^{11} R^5 - 675248 r^{13} R^5 - 361 l^{12} R^6 + 77738 l^{10} r^2 R^6 - 2342119 l^8 r^4 R^6 +$$
$$14859660 l^6 r^6 R^6 - 28837927 l^4 r^8 R^6 + 18660522 l^2 r^{10} R^6 - 2207657 r^{12} R^6 + 8664 l^{10} r R^7 -$$
$$687992 l^8 r^3 R^7 + 9683376 l^6 r^5 R^7 - 32391088 l^4 r^7 R^7 + 30946424 l^2 r^9 R^7 - 5236952 r^{11} R^7 +$$
$$316 l^{10} R^8 - 100188 l^8 r^2 R^8 + 3448088 l^6 r^4 R^8 - 22814840 l^4 r^6 R^8 + 35204652 l^2 r^8 R^8 -$$
$$8990636 r^{10} R^8 - 6320 l^8 r R^9 + 630976 l^6 r^3 R^9 - 9448992 l^4 r^5 R^9 + 26529472 l^2 r^7 R^9 -$$
$$11023792 r^9 R^9 - 100 l^8 R^{10} + 54272 l^6 r^2 R^{10} - 2121912 l^4 r^4 R^{10} + 12526848 l^2 r^6 R^{10} -$$
$$9415908 r^8 R^{10} + 1600 l^6 r R^{11} - 233536 l^4 r^3 R^{11} + 3419712 l^2 r^5 R^{11} - 5370944 r^7 R^{11} -$$
$$9600 l^4 r^2 R^{12} + 476672 l^2 r^4 R^{12} - 1892736 r^6 R^{12} + 25600 l^2 r^3 R^{13} - 349184 r^5 R^{13} - 25600 r^4 R^{14}\Big) \Big/$$
$$\Big(\big(5 l^4 - 6 l^2 r^2 + 5 r^4 - 40 l^2 r R + 40 r^3 R + 80 r^2 R^2\big)^2$$
$$\big(l^4 - 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 6 l^2 R^2 + 22 r^2 R^2 + 24 r R^3 + 7 R^4\big)^2\Big)\Big)\}$$

$$\{X70,\ \text{ISOGONAL CONJUGATE OF } X(26),\ X84,\ \text{ISOGONAL CONJUGATE OF } X(40),$$
$$-\Big(\big(2 l^{10} r^2 - 12 l^8 r^4 + 24 l^6 r^6 - 20 l^4 r^8 + 6 l^2 r^{10} - 6 l^{10} r R + 80 l^6 r^5 R - 132 l^4 r^7 R + 54 l^2 r^9 R + 4 r^{11} R +$$
$$4 l^{10} R^2 + 68 l^8 r^2 R^2 - 124 l^6 r^4 R^2 - 84 l^4 r^6 R^2 + 56 l^2 r^8 R^2 + 80 r^{10} R^2 + 10 l^8 r R^3 - 610 l^6 r^3 R^3 +$$
$$1238 l^4 r^5 R^3 - 1070 l^2 r^7 R^3 + 688 r^9 R^3 - 64 l^8 R^4 - 347 l^6 r^2 R^4 + 3521 l^4 r^4 R^4 - 5525 l^2 r^6 R^4 +$$
$$3311 r^8 R^4 + 506 l^6 r R^5 + 2740 l^4 r^3 R^5 - 11682 l^2 r^5 R^5 + 9668 r^7 R^5 + 392 l^6 R^6 - 1674 l^4 r^2 R^6 -$$
$$10376 l^2 r^4 R^6 + 17098 r^6 R^6 - 3286 l^4 r R^7 + 1618 l^2 r^3 R^7 + 16160 r^5 R^7 - 1136 l^4 R^8 + 10499 l^2 r^2 R^8 +$$
$$2295 r^4 R^8 + 7256 l^2 r R^9 - 11976 r^3 R^9 + 1540 l^2 R^{10} - 12756 r^2 R^{10} - 5264 r R^{11} - 784 R^{12}\big) \Big/$$
$$\big(r^2 \big(l^4 - 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 6 l^2 R^2 + 22 r^2 R^2 + 24 r R^3 + 7 R^4\big)^2\big)\Big)\}$$

$$\{X70,\ \text{ISOGONAL CONJUGATE OF } X(26),\ X85,\ \text{ISOTOMIC CONJUGATE OF } X(9),$$
$$-\Big(\big(R\ \big(8 l^{12} r - 72 l^{10} r^3 + 176 l^8 r^5 - 176 l^6 r^7 + 72 l^4 r^9 - 8 l^2 r^{11} + 17 l^{12} R - 430 l^{10} r^2 R +$$
$$1791 l^8 r^4 R - 2564 l^6 r^6 R + 1391 l^4 r^8 R - 206 l^2 r^{10} R + r^{12} R - 712 l^{10} r R^2 + 6752 l^8 r^3 R^2 -$$
$$15344 l^6 r^5 R^2 + 11648 l^4 r^7 R^2 - 2376 l^2 r^9 R^2 + 32 r^{11} R^2 - 184 l^{10} R^3 + 11224 l^8 r^2 R^3 -$$
$$48288 l^6 r^4 R^3 + 55264 l^4 r^6 R^3 - 16168 l^2 r^8 R^3 + 456 r^{10} R^3 + 7224 l^8 r R^4 - 84264 l^6 r^3 R^4 +$$
$$162408 l^4 r^5 R^4 - 71768 l^2 r^7 R^4 + 3808 r^9 R^4 + 707 l^8 R^5 - 77252 l^6 r^2 R^5 + 301730 l^4 r^4 R^5 -$$
$$216260 l^2 r^6 R^5 + 20627 r^8 R^5 - 29296 l^6 r R^6 + 343176 l^4 r^3 R^6 - 444736 l^2 r^5 R^6 +$$
$$75720 r^7 R^6 - 892 l^6 R^7 + 214676 l^4 r^2 R^7 - 609172 l^2 r^4 R^7 + 190940 r^6 R^7 + 54368 l^4 r R^8 -$$
$$522064 l^2 r^3 R^8 + 327664 r^5 R^8 - 804 l^4 R^9 - 244280 l^2 r^2 R^9 + 369788 r^4 R^9 -$$
$$42688 l^2 r R^{10} + 255424 r^3 R^{10} + 2176 l^2 R^{11} + 92800 r^2 R^{11} + 11264 r R^{12} - 1024 R^{13}\big)\Big) \Big/$$
$$\big(\big(l^2 + r^2 + 8 r R + 16 R^2\big)^2 \big(l^4 - 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 6 l^2 R^2 + 22 r^2 R^2 + 24 r R^3 + 7 R^4\big)^2\big)\Big)\}$$

$$\{X70,\ \text{ISOGONAL CONJUGATE OF } X(26),\ X86,\ \text{CEVAPOINT OF INCENTER AND CENTROID},$$
$$-\Big(\big(4 l^{14} - 128 l^{12} r^2 + 372 l^{10} r^4 - 384 l^8 r^6 + 140 l^6 r^8 - 4 l^2 r^{12} - 64 l^{12} r R + 1568 l^{10} r^3 R -$$
$$3072 l^8 r^5 R + 1600 l^6 r^7 R + 64 l^4 r^9 R - 96 l^2 r^{11} R - 43 l^{12} R^2 + 1862 l^{10} r^2 R^2 - 9481 l^8 r^4 R^2 +$$
$$7956 l^6 r^6 R^2 + 691 l^4 r^8 R^2 - 986 l^2 r^{10} R^2 + r^{12} R^2 + 520 l^{10} r R^3 - 13704 l^8 r^3 R^3 +$$
$$22352 l^6 r^5 R^3 + 2672 l^4 r^7 R^3 - 5720 l^2 r^9 R^3 + 24 r^{11} R^3 + 180 l^{10} R^4 - 8304 l^8 r^2 R^4 +$$
$$37136 l^6 r^4 R^4 + 3448 l^4 r^6 R^4 - 20676 l^2 r^8 R^4 + 248 r^{10} R^4 - 1536 l^8 r R^5 + 34112 l^6 r^3 R^5 -$$
$$4448 l^4 r^5 R^5 - 48128 l^2 r^7 R^5 + 1440 r^9 R^5 - 361 l^8 R^6 + 14248 l^6 r^2 R^6 - 18306 l^4 r^4 R^6 -$$
$$71552 l^2 r^6 R^6 + 5139 r^8 R^6 + 1904 l^6 r R^7 - 19376 l^4 r^3 R^7 - 64624 l^2 r^5 R^7 + 11568 r^7 R^7 +$$
$$316 l^6 R^8 - 7276 l^4 r^2 R^8 - 31612 l^2 r^4 R^8 + 16172 r^6 R^8 - 624 l^4 r R^9 - 6560 l^2 r^3 R^9 +$$
$$13200 r^5 R^9 - 100 l^4 R^{10} - 440 l^2 r^2 R^{10} + 5436 r^4 R^{10} - 160 l^2 r R^{11} + 736 r^3 R^{11} - 64 r^2 R^{12}\big) \Big/$$
$$\big(\big(5 l^2 + r^2 + 4 r R\big)^2 \big(l^4 - 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 6 l^2 R^2 + 22 r^2 R^2 + 24 r R^3 + 7 R^4\big)^2\big)\Big)\}$$

$$\{X70,\ \text{ISOGONAL CONJUGATE OF } X(26),\ X87,\ X(2)\text{-CROSS CONJUGATE OF } X(1),$$
$$\big(6 l^{16} r^2 + 4 l^{14} r^4 - 20 l^{12} r^6 - 12 l^{10} r^8 + 24 l^8 r^{10} + 12 l^6 r^{12} - 12 l^4 r^{14} - 4 l^2 r^{16} + 2 r^{18} + 2 l^{16} r R -$$
$$316 l^{14} r^3 R + 332 l^{12} r^5 R + 340 l^{10} r^7 R - 592 l^8 r^9 R + 268 l^6 r^{11} R + 180 l^4 r^{13} R - 292 l^2 r^{15} R +$$
$$78 r^{17} R - 164 l^{14} r^2 R^2 + 6244 l^{12} r^4 R^2 - 13316 l^{10} r^6 R^2 + 14180 l^8 r^8 R^2 - 13068 l^6 r^{10} R^2 +$$
$$11020 l^4 r^{12} R^2 - 6220 l^2 r^{14} R^2 + 1324 r^{16} R^2 - 22 l^{14} r R^3 + 5174 l^{12} r^3 R^3 - 63910 l^{10} r^5 R^3 +$$
$$141942 l^8 r^7 R^3 - 168050 l^6 r^9 R^3 + 132722 l^4 r^{11} R^3 - 64978 l^2 r^{13} R^3 + 13026 r^{15} R^3 - l^{14} R^4 +$$
$$1223 l^{12} r^2 R^4 - 77225 l^{10} r^4 R^4 + 439879 l^8 r^6 R^4 - 804635 l^6 r^8 R^4 + 767149 l^4 r^{10} R^4 - 399163 l^2 r^{12} R^4 +$$
$$83013 r^{14} R^4 + 134 l^{12} r R^5 - 28336 l^{10} r^3 R^5 + 582134 l^8 r^5 R^5 - 1954000 l^6 r^7 R^5 + 2551570 l^4 r^9 R^5 -$$
$$1567488 l^2 r^{11} R^5 + 361458 r^{13} R^5 + 6 l^{12} R^6 - 4568 l^{10} r^2 R^6 + 326638 l^8 r^4 R^6 - 2574560 l^6 r^6 R^6 +$$
$$5203202 l^4 r^8 R^6 - 4092488 l^2 r^{10} R^6 + 1102346 r^{12} R^6 - 406 l^{10} r R^7 + 72090 l^8 r^3 R^7 -$$
$$1790396 l^6 r^5 R^7 + 6576724 l^4 r^7 R^7 - 7196622 l^2 r^9 R^7 + 2369778 r^{11} R^7 - 9 l^{10} R^8 + 8927 l^8 r^2 R^8 -$$
$$596618 l^6 r^4 R^8 + 5010894 l^4 r^6 R^8 - 8467741 l^2 r^8 R^8 + 3561379 r^{10} R^8 + 452 l^8 r R^9 - 88016 l^6 r^3 R^9 +$$
$$2144248 l^4 r^5 R^9 - 6507920 l^2 r^7 R^9 + 3662052 r^9 R^9 + 4 l^8 R^{10} - 7168 l^6 r^2 R^{10} + 457640 l^4 r^4 R^{10} -$$
$$3127456 l^2 r^6 R^{10} + 2498484 r^8 R^{10} - 160 l^6 r R^{11} + 42336 l^4 r^3 R^{11} - 868704 l^2 r^5 R^{11} + 1104032 r^7 R^{11} +$$
$$1856 l^4 r^2 R^{12} - 117632 l^2 r^4 R^{12} + 317760 r^6 R^{12} - 5120 l^2 r^3 R^{13} + 54272 r^5 R^{13} + 4096 r^4 R^{14}\big) \Big/$$
$$\big(\big(l^4 + 2 l^2 r^2 + r^4 - 20 l^2 r R + 12 r^3 R + 32 r^2 R^2\big)^2$$
$$\big(l^4 - 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 6 l^2 R^2 + 22 r^2 R^2 + 24 r R^3 + 7 R^4\big)^2\big)\}$$

{X70, ISOGONAL CONJUGATE OF X(26), X88, ISOGONAL CONJUGATE OF X(44),

$$\left(16 l^{10} r^4 - 96 l^6 r^8 + 128 l^4 r^{10} - 48 l^2 r^{12} + l^{12} r R - 22 l^{10} r^3 R - 477 l^8 r^5 R + 812 l^6 r^7 R - 137 l^4 r^9 R - 150 l^2 r^{11} R - 27 r^{13} R - 38 l^{10} r^2 R^2 + 506 l^8 r^4 R^2 + 3356 l^6 r^6 R^2 - 5492 l^4 r^8 R^2 + 2154 l^2 r^{10} R^2 - 486 r^{12} R^2 - 11 l^{10} r R^3 + 791 l^8 r^3 R^3 - 1826 l^6 r^5 R^3 - 14246 l^4 r^7 R^3 + 14733 l^2 r^9 R^3 - 3537 r^{11} R^3 - l^{10} R^4 + 362 l^8 r^2 R^4 - 9870 l^6 r^4 R^4 + 3292 l^4 r^6 R^4 + 30351 l^2 r^8 R^4 - 12870 r^{10} R^4 + 83 l^8 r R^5 - 5172 l^6 r^3 R^5 + 45038 l^4 r^5 R^5 - 2172 l^2 r^7 R^5 - 21393 r^9 R^5 + 6 l^8 R^6 - 1738 l^6 r^2 R^6 + 44514 l^4 r^4 R^6 - 95094 l^2 r^6 R^6 + 2520 r^8 R^6 - 287 l^6 r R^7 + 14717 l^4 r^3 R^7 - 134433 l^2 r^5 R^7 + 72531 r^7 R^7 - 9 l^6 R^8 + 4070 l^4 r^2 R^8 - 73401 l^2 r^4 R^8 + 123192 r^6 R^8 + 334 l^4 r R^9 - 18348 l^2 r^3 R^9 + 94158 r^5 R^9 + 4 l^4 R^{10} - 3480 l^2 r^2 R^{10} + 35784 r^4 R^{10} - 120 l^2 r R^{11} + 6984 r^3 R^{11} + 900 r^2 R^{12}\right) \Big/ \left(\left(l^2 + 3 r^2 - 15 r R\right)^2 \left(l^4 - 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 6 l^2 R^2 + 22 r^2 R^2 + 24 r R^3 + 7 R^4\right)^2\right)\}$$

{X70, ISOGONAL CONJUGATE OF X(26), X89, ISOGONAL CONJUGATE OF X(45),

$$\left(48 l^{12} r^2 - 368 l^{10} r^4 + 1056 l^8 r^6 - 1440 l^6 r^8 + 944 l^4 r^{10} - 240 l^2 r^{12} - 2 l^{12} r R - 664 l^{10} r^3 R + 4398 l^8 r^5 R - 9904 l^6 r^7 R + 9226 l^4 r^9 R - 3000 l^2 r^{11} R - 54 r^{13} R - 650 l^{10} r^2 R^2 + 7298 l^8 r^4 R^2 - 26524 l^6 r^6 R^2 + 35692 l^4 r^8 R^2 - 14682 l^2 r^{10} R^2 - 1134 r^{12} R^2 + 22 l^{10} r R^3 + 6710 l^8 r^3 R^3 - 37964 l^6 r^5 R^3 + 70228 l^4 r^7 R^3 - 32778 l^2 r^9 R^3 - 10314 r^{11} R^3 - 4 l^{10} R^4 + 3401 l^8 r^2 R^4 - 34224 l^6 r^4 R^4 + 76150 l^4 r^6 R^4 - 17580 l^2 r^8 R^4 - 53343 r^{10} R^4 - 46 l^8 r R^5 - 22644 l^6 r^3 R^5 + 50360 l^4 r^5 R^5 + 72948 l^2 r^7 R^5 - 173322 r^9 R^5 + 24 l^8 R^6 - 8362 l^6 r^2 R^6 + 31998 l^4 r^4 R^6 + 176778 l^2 r^6 R^6 - 369270 r^8 R^6 - 2 l^6 r R^7 + 24746 l^4 r^3 R^7 + 172314 l^2 r^5 R^7 - 522738 r^7 R^7 - 36 l^6 R^8 + 8927 l^4 r^2 R^8 + 73266 l^2 r^4 R^8 - 486225 r^6 R^8 - 20 l^4 r R^9 + 4488 l^2 r^3 R^9 - 284004 r^5 R^9 + 16 l^4 R^{10} - 3252 l^2 r^2 R^{10} - 92844 r^4 R^{10} + 48 l^2 r R^{11} - 12672 r^3 R^{11} + 36 r^2 R^{12}\right) \Big/ \left(\left(2 l^2 - 6 r^2 + 3 r R\right)^2 \left(l^4 - 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 6 l^2 R^2 + 22 r^2 R^2 + 24 r R^3 + 7 R^4\right)^2\right)\}$$

{X70, ISOGONAL CONJUGATE OF X(26), X90, X(3)-CROSS CONJUGATE OF X(1),

$$-\left(\left(2 l^{10} r^4 - 12 l^8 r^6 + 24 l^6 r^8 - 20 l^4 r^{10} + 6 l^2 r^{12} - 42 l^8 r^5 R + 172 l^6 r^7 R - 216 l^4 r^9 R + 84 l^2 r^{11} R + 2 r^{13} R - 2 l^{10} r^2 R^2 - 6 l^8 r^4 R^2 + 360 l^6 r^6 R^2 - 840 l^4 r^8 R^2 + 442 l^2 r^{10} R^2 + 46 r^{12} R^2 + 58 l^8 r^3 R^3 + 14 l^6 r^5 R^3 - 1146 l^4 r^7 R^3 + 866 l^2 r^9 R^3 + 464 r^{11} R^3 + 22 l^8 r^2 R^4 - 683 l^6 r^4 R^4 + 1013 l^4 r^6 R^4 - 1125 l^2 r^8 R^4 + 2693 r^{10} R^4 - 566 l^6 r^3 R^5 + 4788 l^4 r^5 R^5 - 9314 l^2 r^7 R^5 + 9908 r^9 R^5 - 70 l^6 r^2 R^6 + 5028 l^4 r^4 R^6 - 20218 l^2 r^6 R^6 + 23964 r^8 R^6 - 4 l^6 r R^7 + 1770 l^4 r^3 R^7 - 21506 l^2 r^5 R^7 + 38136 r^7 R^7 + l^6 R^8 + 53 l^4 r^2 R^8 - 10994 l^2 r^4 R^8 + 38654 r^6 R^8 + 12 l^4 r R^9 - 1918 l^2 r^3 R^9 + 22990 r^5 R^9 - 6 l^4 R^{10} + 112 l^2 r^2 R^{10} + 6570 r^4 R^{10} + 12 l^2 r R^{11} + 312 r^3 R^{11} + 9 l^2 R^{12} - 179 r^2 R^{12} - 20 r R^{13} - 4 R^{14}\right) \Big/ \left(\left(r^2 + 2 r R - R^2\right)^2 \left(l^4 - 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 6 l^2 R^2 + 22 r^2 R^2 + 24 r R^3 + 7 R^4\right)^2\right)\right)\}$$

{X70, ISOGONAL CONJUGATE OF X(26), X91, ISOGONAL CONJUGATE OF X(47),

$$\left(R \left(l^{14} r - 15 l^{12} r^3 + 77 l^{10} r^5 - 163 l^8 r^7 + 163 l^6 r^9 - 77 l^4 r^{11} + 15 l^2 r^{13} - r^{15} - 29 l^{12} r^2 R + 342 l^{10} r^4 R - 1315 l^8 r^6 R + 2004 l^6 r^8 R - 1315 l^4 r^{10} R + 342 l^2 r^{12} R - 29 r^{14} R - 17 l^{12} r R^2 + 574 l^{10} r^3 R^2 - 4087 l^8 r^5 R^2 + 10084 l^6 r^7 R^2 - 9599 l^4 r^9 R^2 + 3422 l^2 r^{11} R^2 - 377 r^{13} R^2 + 418 l^{10} r^2 R^3 - 6438 l^8 r^4 R^3 + 27148 l^6 r^6 R^3 - 39300 l^4 r^8 R^3 + 19794 l^2 r^{10} R^3 - 2902 r^{12} R^3 + 121 l^{10} r R^4 - 5513 l^8 r^3 R^4 + 42850 l^6 r^5 R^4 - 99450 l^4 r^7 R^4 + 73381 l^2 r^9 R^4 - 14717 r^{11} R^4 - l^{10} R^5 - 2424 l^8 r^2 R^5 + 40830 l^6 r^4 R^5 - 161648 l^4 r^6 R^5 + 182635 l^2 r^8 R^5 - 51760 r^{10} R^5 - 445 l^8 r R^6 + 23100 l^6 r^3 R^6 - 170262 l^4 r^5 R^6 + 310764 l^2 r^7 R^6 - 129413 r^9 R^6 + 10 l^8 R^7 + 7062 l^6 r^2 R^7 - 114714 l^4 r^4 R^7 + 361474 l^2 r^6 R^7 - 231960 r^8 R^7 + 876 l^6 r R^8 - 47392 l^4 r^3 R^8 + 283260 l^2 r^5 R^8 - 296856 r^7 R^8 - 37 l^6 R^9 - 10691 l^4 r^2 R^9 + 145201 l^2 r^4 R^9 - 267169 r^6 R^9 - 888 l^4 r R^{10} + 46064 l^2 r^3 R^{10} - 164696 r^5 R^{10} + 64 l^4 R^{11} + 7872 l^2 r^2 R^{11} - 66848 r^4 R^{11} + 400 l^2 r R^{12} - 16736 r^3 R^{12} - 52 l^2 R^{13} - 2180 r^2 R^{13} - 48 r R^{14} + 16 R^{15}\right)\right) \Big/ \left(\left(l^2 r + r^3 - l^2 R + 3 r^2 R + 2 r R^2 + 2 R^3\right)^2 \left(l^4 - 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 6 l^2 R^2 + 22 r^2 R^2 + 24 r R^3 + 7 R^4\right)^2\right)\}$$

$$\{X70,\ \text{ISOGONAL CONJUGATE OF } X(26),\ X92,\ \text{CEVAPOINT OF INCENTER AND CLAWSON POINT},$$
$$-\Big(\Big(R\,\big(4\,l^{12}\,r-40\,l^{10}\,r^3+124\,l^8\,r^5-176\,l^6\,r^7+124\,l^4\,r^9-40\,l^2\,r^{11}+4\,r^{13}+l^{12}\,R-134\,l^{10}\,r^2\,R+$$
$$903\,l^8\,r^4\,R-2004\,l^6\,r^6\,R+1935\,l^4\,r^8\,R-806\,l^2\,r^{10}\,R+105\,r^{12}\,R-100\,l^{10}\,r\,R^2+$$
$$2260\,l^8\,r^3\,R^2-9080\,l^6\,r^5\,R^2+12888\,l^4\,r^7\,R^2-7204\,l^2\,r^9\,R^2+1236\,r^{11}\,R^2-16\,l^{10}\,R^3+$$
$$2328\,l^8\,r^2\,R^3-20816\,l^6\,r^4\,R^3+47552\,l^4\,r^6\,R^3-37408\,l^2\,r^8\,R^3+8616\,r^{10}\,R^3+924\,l^8\,r\,R^4-$$
$$25312\,l^6\,r^3\,R^4+105576\,l^4\,r^5\,R^4-124320\,l^2\,r^7\,R^4+39548\,r^9\,R^4+99\,l^8\,R^5-15548\,l^6\,r^2\,R^5+$$
$$143242\,l^4\,r^4\,R^5-274700\,l^2\,r^6\,R^5+125643\,r^8\,R^5-4140\,l^6\,r\,R^6+114948\,l^4\,r^3\,R^6-$$
$$405716\,l^2\,r^5\,R^6+282364\,r^7\,R^6-292\,l^6\,R^7+49812\,l^4\,r^2\,R^7-391548\,l^2\,r^4\,R^7+449996\,r^6\,R^7+$$
$$9528\,l^4\,r\,R^8-233136\,l^2\,r^3\,R^8+500664\,r^5\,R^8+396\,l^4\,R^9-76248\,l^2\,r^2\,R^9+374348\,r^4\,R^9-$$
$$10592\,l^2\,r\,R^{10}+174816\,r^3\,R^{10}-160\,l^2\,R^{11}+44256\,r^2\,R^{11}+4352\,r\,R^{12}-64\,R^{13}\big)\Big)\Big/$$
$$\Big(\big(l^2+r^2-4\,R^2\big)^2\,\big(l^4-2\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-6\,l^2\,R^2+22\,r^2\,R^2+24\,r\,R^3+7\,R^4\big)^2\Big)\Big)\}$$

$$\{X70,\ \text{ISOGONAL CONJUGATE OF } X(26),\ X93,\ \text{ISOGONAL CONJUGATE OF } X(49),$$
$$\Big(R^2\,\big(l^{16}-36\,l^{14}\,r^2+308\,l^{12}\,r^4-988\,l^{10}\,r^6+1430\,l^8\,r^8-988\,l^6\,r^{10}+308\,l^4\,r^{12}-36\,l^2\,r^{14}+r^{16}-32\,l^{14}\,r\,R+$$
$$896\,l^{12}\,r^3\,R-5824\,l^{10}\,r^5\,R+13728\,l^8\,r^7\,R-13728\,l^6\,r^9\,R+5824\,l^4\,r^{11}\,R-896\,l^2\,r^{13}\,R+32\,r^{15}\,R-$$
$$18\,l^{14}\,R^2+1022\,l^{12}\,r^2\,R^2-13402\,l^{10}\,r^4\,R^2+54102\,l^8\,r^6\,R^2-81558\,l^6\,r^8\,R^2+48346\,l^4\,r^{10}\,R^2-$$
$$9982\,l^2\,r^{12}\,R^2+466\,r^{14}\,R^2+504\,l^{12}\,r\,R^3-15568\,l^{10}\,r^3\,R^3+113672\,l^8\,r^5\,R^3-270944\,l^6\,r^7\,R^3+$$
$$231944\,l^4\,r^9\,R^3-65744\,l^2\,r^{11}\,R^3+4088\,r^{13}\,R^3+135\,l^{12}\,R^4-9718\,l^{10}\,r^2\,R^4+139241\,l^8\,r^4\,R^4-$$
$$553460\,l^6\,r^6\,R^4+712201\,l^4\,r^8\,R^4-284790\,l^2\,r^{10}\,R^4+24103\,r^{12}\,R^4-3240\,l^{10}\,r\,R^5+102280\,l^8\,r^3\,R^5-$$
$$722512\,l^6\,r^5\,R^5+1464656\,l^4\,r^7\,R^5-854024\,l^2\,r^9\,R^5+100904\,r^{11}\,R^5-548\,l^{10}\,R^6+44412\,l^8\,r^2\,R^6-$$
$$609136\,l^6\,r^4\,R^6+2054160\,l^4\,r^6\,R^6-1817516\,l^2\,r^8\,R^6+308916\,r^{10}\,R^6+10960\,l^8\,r\,R^7-$$
$$327904\,l^6\,r^3\,R^7+1967520\,l^4\,r^5\,R^7-2769632\,l^2\,r^7\,R^7+701904\,r^9\,R^7+1307\,l^8\,R^8-108824\,l^6\,r^2\,R^8+$$
$$1272090\,l^4\,r^4\,R^8-3014296\,l^2\,r^6\,R^8+1189019\,r^8\,R^8-20912\,l^6\,r\,R^9+540784\,l^4\,r^3\,R^9-$$
$$2314352\,l^2\,r^5\,R^9+1495984\,r^7\,R^9-1866\,l^6\,R^{10}+144502\,l^4\,r^2\,R^{10}-1226070\,l^2\,r^4\,R^{10}+$$
$$1381738\,r^6\,R^{10}+22392\,l^4\,r\,R^{11}-433104\,l^2\,r^3\,R^{11}+918136\,r^5\,R^{11}+1573\,l^4\,R^{12}-97062\,l^2\,r^2\,R^{12}+$$
$$425733\,r^4\,R^{12}-12584\,l^2\,r\,R^{13}+132008\,r^3\,R^{13}-728\,l^2\,R^{14}+25896\,r^2\,R^{14}+2912\,r\,R^{15}+144\,R^{16}\big)\Big)\Big/$$
$$\Big(\big(l^4-2\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-6\,l^2\,R^2+22\,r^2\,R^2+24\,r\,R^3+7\,R^4\big)^2$$
$$\big(l^4+2\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-8\,l^2\,R^2+24\,r^2\,R^2+32\,r\,R^3+13\,R^4\big)^2\Big)\}$$

$$\{X70,\ \text{ISOGONAL CONJUGATE OF } X(26),\ X94,\ \text{ISOGONAL CONJUGATE OF } X(50),$$
$$\Big(R^2\,\big(5\,l^{16}-68\,l^{14}\,r^2+356\,l^{12}\,r^4-956\,l^{10}\,r^6+1326\,l^8\,r^8-956\,l^6\,r^{10}+356\,l^4\,r^{12}-68\,l^2\,r^{14}+5\,r^{16}-$$
$$160\,l^{14}\,r\,R+1792\,l^{12}\,r^3\,R-7488\,l^{10}\,r^5\,R+15136\,l^8\,r^7\,R-15136\,l^6\,r^9\,R+7488\,l^4\,r^{11}\,R-$$
$$1792\,l^2\,r^{13}\,R+160\,r^{15}\,R-100\,l^{14}\,R^2+3372\,l^{12}\,r^2\,R^2-24804\,l^{10}\,r^4\,R^2+74572\,l^8\,r^6\,R^2-$$
$$104844\,l^6\,r^8\,R^2+69732\,l^4\,r^{10}\,R^2-21292\,l^2\,r^{12}\,R^2+2340\,r^{14}\,R^2+2800\,l^{12}\,r\,R^3-$$
$$43360\,l^{10}\,r^3\,R^3+206608\,l^8\,r^5\,R^3-418112\,l^6\,r^7\,R^3+380176\,l^4\,r^9\,R^3-150880\,l^2\,r^{11}\,R^3+$$
$$20720\,r^{13}\,R^3+845\,l^{12}\,R^4-41402\,l^{10}\,r^2\,R^4+350531\,l^8\,r^4\,R^4-1062380\,l^6\,r^6\,R^4+$$
$$1350531\,l^4\,r^8\,R^4-710842\,l^2\,r^{10}\,R^4+124045\,r^{12}\,R^4-20280\,l^{10}\,r\,R^5+369112\,l^8\,r^3\,R^5-$$
$$1794800\,l^6\,r^5\,R^5+3289328\,l^4\,r^7\,R^5-2349784\,l^2\,r^9\,R^5+531000\,r^{11}\,R^5-3948\,l^{10}\,R^6+$$
$$232284\,l^8\,r^2\,R^6-2034152\,l^6\,r^4\,R^6+5623752\,l^4\,r^6\,R^6-5605484\,l^2\,r^8\,R^6+$$
$$1676188\,r^{10}\,R^6+78960\,l^8\,r\,R^7-1514368\,l^6\,r^3\,R^7+6786080\,l^4\,r^5\,R^7-9775488\,l^2\,r^7\,R^7+$$
$$3966320\,r^9\,R^7+11179\,l^8\,R^8-699424\,l^6\,r^2\,R^8+5713386\,l^4\,r^4\,R^8-12486688\,l^2\,r^6\,R^8+$$
$$7082539\,r^8\,R^8-178864\,l^6\,r\,R^9+3247536\,l^4\,r^3\,R^9-11589552\,l^2\,r^5\,R^9+9535664\,r^7\,R^9-$$
$$19644\,l^6\,R^{10}+1167828\,l^4\,r^2\,R^{10}-7662900\,l^2\,r^4\,R^{10}+9607388\,r^6\,R^{10}+235728\,l^4\,r\,R^{11}-$$
$$3476128\,l^2\,r^3\,R^{11}+7140304\,r^5\,R^{11}+20799\,l^4\,R^{12}-1010754\,l^2\,r^2\,R^{12}+3825535\,r^4\,R^{12}-$$
$$166392\,l^2\,r\,R^{13}+1423608\,r^3\,R^{13}-11988\,l^2\,R^{14}+344772\,r^2\,R^{14}+47952\,r\,R^{15}+2916\,R^{16}\big)\Big)\Big/$$
$$\Big(\big(l^4-2\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-6\,l^2\,R^2+22\,r^2\,R^2+24\,r\,R^3+7\,R^4\big)^2$$
$$\big(l^4+2\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-12\,l^2\,R^2+28\,r^2\,R^2+48\,r\,R^3+27\,R^4\big)^2\Big)\}$$

$$\{X70, \text{ISOGONAL CONJUGATE OF } X(26), X95, \text{CEVAPOINT OF CENTROID AND CIRCUMCENTER},$$
$$-\Big(\big(16 l^{16} r^2 + 144 l^{14} r^4 - 2224 l^{12} r^6 + 5840 l^{10} r^8 - 5840 l^8 r^{10} + 2224 l^6 r^{12} - 144 l^4 r^{14} - 16 l^2 r^{16} -$$
$$448 l^{14} r^3 R - 2432 l^{12} r^5 R + 29120 l^{10} r^7 R - 52480 l^8 r^9 R + 29120 l^6 r^{11} R - 2432 l^4 r^{13} R -$$
$$448 l^2 r^{15} R + l^{16} R^2 - 220 l^{14} r^2 R^2 + 2692 l^{12} r^4 R^2 + 39900 l^{10} r^6 R^2 - 176394 l^8 r^8 R^2 +$$
$$156380 l^6 r^{10} R^2 - 16764 l^4 r^{12} R^2 - 5596 l^2 r^{14} R^2 + r^{16} R^2 - 32 l^{14} r R^3 + 5312 l^{12} r^3 R^3 +$$
$$1792 l^{10} r^5 R^3 - 264672 l^8 r^7 R^3 + 438752 l^6 r^9 R^3 - 58112 l^4 r^{11} R^3 - 41152 l^2 r^{13} R^3 + 32 r^{15} R^3 -$$
$$16 l^{14} R^4 + 1408 l^{12} r^2 R^4 - 32416 l^{10} r^4 R^4 - 141808 l^8 r^6 R^4 + 671152 l^6 r^8 R^4 - 90976 l^4 r^{10} R^4 -$$
$$197888 l^2 r^{12} R^4 + 464 r^{14} R^4 + 448 l^{12} r R^5 - 23232 l^{10} r^3 R^5 + 55104 l^8 r^5 R^5 + 511872 l^6 r^7 R^5 +$$
$$21824 l^4 r^9 R^5 - 652992 l^2 r^{11} R^5 + 4032 r^{13} R^5 + 99 l^{12} R^6 - 5326 l^{10} r^2 R^6 + 93773 l^8 r^4 R^6 +$$
$$112380 l^6 r^6 R^6 + 313677 l^4 r^8 R^6 - 1507022 l^2 r^{10} R^6 + 23395 r^{12} R^6 - 2376 l^{10} r R^7 + 37416 l^8 r^3 R^7 -$$
$$51344 l^6 r^5 R^7 + 436368 l^4 r^7 R^7 - 2424360 l^2 r^9 R^7 + 95560 r^{11} R^7 - 292 l^{10} R^8 + 9988 l^8 r^2 R^8 +$$
$$10648 l^6 r^4 R^8 + 92040 l^4 r^6 R^8 - 2632692 l^2 r^8 R^8 + 282100 r^{10} R^8 + 5840 l^8 r R^9 + 32704 l^6 r^3 R^9 -$$
$$348960 l^4 r^5 R^9 - 1743424 l^2 r^7 R^9 + 607696 r^9 R^9 + 396 l^8 R^{10} + 896 l^6 r^2 R^{10} - 403864 l^4 r^4 R^{10} -$$
$$415616 l^2 r^6 R^{10} + 951564 r^8 R^{10} - 6336 l^6 r R^{11} - 187712 l^4 r^3 R^{11} + 367424 l^2 r^5 R^{11} + 1063616 r^7 R^{11} -$$
$$160 l^6 R^{12} - 30752 l^4 r^2 R^{12} + 406176 l^2 r^4 R^{12} + 817440 r^6 R^{12} + 1920 l^4 r R^{13} + 171776 l^2 r^3 R^{13} +$$
$$402304 r^5 R^{13} - 64 l^4 R^{14} + 30080 l^2 r^2 R^{14} + 108992 r^4 R^{14} + 512 l^2 r R^{15} + 9728 r^3 R^{15} - 1024 r^2 R^{16}\big) /$$
$$\big(\big(l^4 + 18 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 4 l^2 R^2 + 20 r^2 R^2 + 16 r R^3\big)^2$$
$$\big(l^4 - 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 6 l^2 R^2 + 22 r^2 R^2 + 24 r R^3 + 7 R^4\big)^2\big)\Big)\}$$

$$\{X70, \text{ISOGONAL CONJUGATE OF } X(26), X96, \text{ISOGONAL CONJUGATE OF } X(52),$$
$$-\Big(\big(2 l^{18} - 58 l^{16} r^2 + 576 l^{14} r^4 - 2512 l^{12} r^6 + 5044 l^{10} r^8 - 5044 l^8 r^{10} + 2512 l^6 r^{12} - 576 l^4 r^{14} + 58 l^2 r^{16} -$$
$$2 r^{18} - 72 l^{16} r R + 1696 l^{14} r^3 R - 13216 l^{12} r^5 R + 43360 l^{10} r^7 R - 63536 l^8 r^9 R + 43360 l^6 r^{11} R -$$
$$13216 l^4 r^{13} R + 1696 l^2 r^{15} R - 72 r^{17} R - 41 l^{16} R^2 + 2156 l^{14} r^2 R^2 - 29764 l^{12} r^4 R^2 +$$
$$155924 l^{10} r^6 R^2 - 343462 l^8 r^8 R^2 + 329364 l^6 r^{10} R^2 - 135492 l^4 r^{12} R^2 + 22508 l^2 r^{14} R^2 -$$
$$1193 r^{16} R^2 + 1312 l^{14} r R^3 - 36160 l^{12} r^3 R^3 + 311680 l^{10} r^5 R^3 - 1050144 l^8 r^7 R^3 + 1451040 l^6 r^9 R^3 -$$
$$820608 l^4 r^{11} R^3 + 179520 l^2 r^{13} R^3 - 12064 r^{15} R^3 + 366 l^{14} R^4 - 25642 l^{12} r^2 R^4 + 384238 l^{10} r^4 R^4 -$$
$$2021050 l^8 r^6 R^4 + 4121338 l^6 r^8 R^4 - 3272174 l^4 r^{10} R^4 + 960682 l^2 r^{12} R^4 - 83246 r^{14} R^4 -$$
$$10248 l^{12} r R^5 + 302672 l^{10} r^3 R^5 - 2581112 l^8 r^5 R^5 + 7951968 l^6 r^7 R^5 - 9068664 l^4 r^9 R^5 +$$
$$3648080 l^2 r^{11} R^5 - 415240 r^{13} R^5 - 1867 l^{12} R^6 + 151550 l^{10} r^2 R^6 - 2240581 l^8 r^4 R^6 +$$
$$10721316 l^6 r^6 R^6 - 17991717 l^4 r^8 R^6 + 10143358 l^2 r^{10} R^6 - 1547691 r^{12} R^6 + 44808 l^{10} r R^7 -$$
$$1321832 l^8 r^3 R^7 + 10244624 l^6 r^5 R^7 - 25961232 l^4 r^7 R^7 + 21018344 l^2 r^9 R^7 - 4395400 r^{11} R^7 +$$
$$6024 l^{10} R^8 - 514424 l^8 r^2 R^8 + 6952720 l^6 r^4 R^8 - 27441968 l^4 r^6 R^8 + 32748776 l^2 r^8 R^8 -$$
$$9615320 r^{10} R^8 - 120480 l^8 r R^9 + 3306368 l^6 r^3 R^9 - 21256896 l^4 r^5 R^9 + 38473088 l^2 r^7 R^9 -$$
$$16278944 r^9 R^9 - 12864 l^8 R^{10} + 1057776 l^6 r^2 R^{10} - 11978912 l^4 r^4 R^{10} + 34003952 l^2 r^6 R^{10} -$$
$$21326912 r^8 R^{10} + 205824 l^6 r R^{11} - 4812672 l^4 r^3 R^{11} + 22457216 l^2 r^5 R^{11} - 21528576 r^7 R^{11} +$$
$$18368 l^6 R^{12} - 1315968 l^4 r^2 R^{12} + 10941312 l^2 r^4 R^{12} - 16611264 r^6 R^{12} - 220416 l^4 r R^{13} +$$
$$3837696 l^2 r^3 R^{13} - 9682176 r^5 R^{13} - 17040 l^4 R^{14} + 922144 l^2 r^2 R^{14} - 4191888 r^4 R^{14} +$$
$$136320 l^2 r R^{15} - 1311872 r^3 R^{15} + 9344 l^2 R^{16} - 281984 r^2 R^{16} - 37376 r R^{17} - 2304 R^{18}\big) /$$
$$\big(\big(l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2 - 4 R^4\big)^2$$
$$\big(l^4 - 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 6 l^2 R^2 + 22 r^2 R^2 + 24 r R^3 + 7 R^4\big)^2\big)\Big)\}$$

$$\{X70,\ \text{ISOGONAL CONJUGATE OF } X(26),\ X97,\ \text{ISOGONAL CONJUGATE OF } X(53),$$
$$\big(12\,l^{16}r^2-148\,l^{14}r^4+636\,l^{12}r^6-1252\,l^{10}r^8+1252\,l^8r^{10}-636\,l^6r^{12}+148\,l^4r^{14}-12\,l^2r^{16}-$$
$$336\,l^{14}r^3R+3296\,l^{12}r^5R-10928\,l^{10}r^7R+15936\,l^8r^9R-10928\,l^6r^{11}R+3296\,l^4r^{13}R-$$
$$336\,l^2r^{15}R+l^{16}R^2-292\,l^{14}r^2R^2+6820\,l^{12}r^4R^2-39580\,l^{10}r^6R^2+87478\,l^8r^8R^2-83292\,l^6r^{10}R^2+$$
$$33188\,l^4r^{12}R^2-4324\,l^2r^{14}R^2+r^{16}R^2-32\,l^{14}rR^3+7040\,l^{12}r^3R^3-78528\,l^{10}r^5R^3+273568\,l^8r^7R^3-$$
$$372384\,l^6r^9R^3+200128\,l^4r^{11}R^3-33920\,l^2r^{13}R^3+32\,r^{15}R^3-22\,l^{14}R^4+3478\,l^{12}r^2R^4-$$
$$92634\,l^{10}r^4R^4+540730\,l^8r^6R^4-1087866\,l^6r^8R^4+807002\,l^4r^{10}R^4-181398\,l^2r^{12}R^4+$$
$$470\,r^{14}R^4+616\,l^{12}rR^5-64800\,l^{10}r^3R^5+704088\,l^8r^5R^5-2187328\,l^6r^7R^5+2301016\,l^4r^9R^5-$$
$$700704\,l^2r^{11}R^5+4200\,r^{13}R^5+202\,l^{12}R^6-24720\,l^{10}r^2R^6+605206\,l^8r^4R^6-3098336\,l^6r^6R^6+$$
$$4780918\,l^4r^8R^6-2020752\,l^2r^{10}R^6+25514\,r^{12}R^6-4848\,l^{10}rR^7+331376\,l^8r^3R^7-$$
$$3098528\,l^6r^5R^7+7341728\,l^4r^7R^7-4433392\,l^2r^9R^7+111472\,r^{11}R^7-1002\,l^{10}R^8+107298\,l^8r^2R^8-$$
$$2146196\,l^6r^4R^8+8343252\,l^4r^6R^8-7465154\,l^2r^8R^8+361290\,r^{10}R^8+20040\,l^8rR^9-$$
$$984416\,l^6r^3R^9+6932400\,l^4r^5R^9-9649504\,l^2r^7R^9+882760\,r^9R^9+2905\,l^8R^{10}-278604\,l^6r^2R^{10}+$$
$$4093366\,l^4r^4R^{10}-9489868\,l^2r^6R^{10}+1635225\,r^8R^{10}-46480\,l^6rR^{11}+1634032\,l^4r^3R^{11}-$$
$$6960112\,l^2r^5R^{11}+2289296\,r^7R^{11}-4980\,l^6R^{12}+409612\,l^4r^2R^{12}-3677676\,l^2r^4R^{12}+$$
$$2393812\,r^6R^{12}+59760\,l^4rR^{13}-1326368\,l^2r^3R^{13}+1829488\,r^5R^{13}+4884\,l^4R^{14}-301736\,l^2r^2R^{14}+$$
$$987604\,r^4R^{14}-39072\,l^2rR^{15}+357792\,r^3R^{15}-2528\,l^2R^{16}+80672\,r^2R^{16}+10112\,rR^{17}+576\,R^{18}\big)\Big/$$
$$\big((l^4-2\,l^2r^2+r^4-8\,l^2rR+8\,r^3R-6\,l^2R^2+22\,r^2R^2+24\,rR^3+7\,R^4)^2$$
$$(l^4-6\,l^2r^2+r^4-8\,l^2rR+8\,r^3R-7\,l^2R^2+23\,r^2R^2+28\,rR^3+12\,R^4)^2\big)\}$$

$$\{X70,\ \text{ISOGONAL CONJUGATE OF } X(26),\ X98,\ \text{TarryPoint},$$
$$-\big((2\,l^{14}-30\,l^{12}r^2+154\,l^{10}r^4-326\,l^8r^6+326\,l^6r^8-154\,l^4r^{10}+30\,l^2r^{12}-2\,r^{14}-56\,l^{12}rR+$$
$$656\,l^{10}r^3R-2504\,l^8r^5R+3808\,l^6r^7R-2504\,l^4r^9R+656\,l^2r^{11}R-56\,r^{13}R-29\,l^{12}R^2+$$
$$1046\,l^{10}r^2R^2-7491\,l^8r^4R^2+18388\,l^6r^6R^2-17507\,l^4r^8R^2+6294\,l^2r^{10}R^2-701\,r^{12}R^2+$$
$$696\,l^{10}rR^3-11160\,l^8r^3R^3+47408\,l^6r^5R^3-68656\,l^4r^7R^3+34840\,l^2r^9R^3-5176\,r^{11}R^3+$$
$$162\,l^{10}R^4-8682\,l^8r^2R^4+70500\,l^6r^4R^4-165316\,l^4r^6R^4+123002\,l^2r^8R^4-25042\,r^{10}R^4-$$
$$3240\,l^8rR^5+61024\,l^6r^3R^5-251632\,l^4r^5R^5+288864\,l^2r^7R^5-83368\,r^9R^5-431\,l^8R^6+$$
$$29412\,l^6r^2R^6-240410\,l^4r^4R^6+456292\,l^2r^6R^6-195055\,r^8R^6+6896\,l^6rR^7-138512\,l^4r^3R^7+$$
$$478736\,l^2r^5R^7-321520\,r^7R^7+540\,l^6R^8-44196\,l^4r^2R^8+321220\,l^2r^4R^8-368060\,r^6R^8-$$
$$6480\,l^4rR^9+128096\,l^2r^3R^9-282704\,r^5R^9-256\,l^4R^{10}+26480\,l^2r^2R^{10}-136512\,r^4R^{10}+$$
$$2048\,l^2rR^{11}-36608\,r^3R^{11}-4096\,r^2R^{12}\big)\Big/\big((l^4-14\,l^2r^2+r^4-8\,l^2rR+8\,r^3R+16\,r^2R^2)$$
$$(l^4-2\,l^2r^2+r^4-8\,l^2rR+8\,r^3R-6\,l^2R^2+22\,r^2R^2+24\,rR^3+7\,R^4)^2\big)\big)\}$$

$$\{X70,\ \text{ISOGONAL CONJUGATE OF } X(26),\ X99,\ \text{STEINER POINT},$$
$$\big(16\,l^{12}r^2-144\,l^{10}r^4+352\,l^8r^6-352\,l^6r^8+144\,l^4r^{10}-16\,l^2r^{12}-320\,l^{10}r^3R+2048\,l^8r^5R-$$
$$3456\,l^6r^7R+2048\,l^4r^9R-320\,l^2r^{11}R-l^{12}R^2-210\,l^{10}r^2R^2+4033\,l^8r^4R^2-13276\,l^6r^6R^2+$$
$$12225\,l^4r^8R^2-2770\,l^2r^{10}R^2-r^{12}R^2+24\,l^{10}rR^3+3336\,l^8r^3R^3-25360\,l^6r^5R^3+39696\,l^4r^7R^3-$$
$$13576\,l^2r^9R^3-24\,r^{11}R^3+8\,l^{10}R^4+920\,l^8r^2R^4-25280\,l^6r^4R^4+76000\,l^4r^6R^4-41416\,l^2r^8R^4-$$
$$248\,r^{10}R^4-160\,l^8rR^5-12480\,l^6r^3R^5+87232\,l^4r^5R^5-81600\,l^2r^7R^5-1440\,r^9R^5-19\,l^8R^6-$$
$$2108\,l^6r^2R^6+58798\,l^4r^4R^6-104764\,l^2r^6R^6-5139\,r^8R^6+304\,l^6rR^7+21680\,l^4r^3R^7-$$
$$87216\,l^2r^5R^7-11568\,r^7R^7+12\,l^6R^8+3276\,l^4r^2R^8-46636\,l^2r^4R^8-16172\,r^6R^8-144\,l^4rR^9-$$
$$15392\,l^2r^3R^9-13200\,r^5R^9+4\,l^4R^{10}-2504\,l^2r^2R^{10}-5436\,r^4R^{10}-32\,l^2rR^{11}-736\,r^3R^{11}+64\,r^2R^{12}\big)\Big/$$
$$\big((l^4-14\,l^2r^2+r^4-8\,l^2rR+8\,r^3R+16\,r^2R^2)$$
$$(l^4-2\,l^2r^2+r^4-8\,l^2rR+8\,r^3R-6\,l^2R^2+22\,r^2R^2+24\,rR^3+7\,R^4)^2\big)\}$$

$$\{X70,\ \text{ISOGONAL CONJUGATE OF } X(26),\ X100,\ \text{ANTICOMPLEMENT OF FEUERBACH POINT},$$
$$\big(-2\,l^{10}r+18\,l^8r^3-44\,l^6r^5+44\,l^4r^7-18\,l^2r^9+2\,r^{11}+44\,l^8r^2R-272\,l^6r^4R+$$
$$456\,l^4r^6R-272\,l^2r^8R+44\,r^{10}R+28\,l^8rR^2-584\,l^6r^3R^2+1888\,l^4r^5R^2-1752\,l^2r^7R^2+$$
$$420\,r^9R^2+l^8R^3-520\,l^6r^2R^3+3958\,l^4r^4R^3-6232\,l^2r^6R^3+2281\,r^8R^3-174\,l^6rR^4+$$
$$4378\,l^4r^3R^4-13250\,l^2r^5R^4+7766\,r^7R^4-8\,l^6R^5+2408\,l^4r^2R^5-17016\,l^2r^4R^5+$$
$$17208\,r^6R^5+544\,l^4rR^6-12680\,l^2r^3R^6+24904\,r^5R^6+19\,l^4R^7-4930\,l^2r^2R^7+$$
$$22923\,r^4R^7-780\,l^2rR^8+12564\,r^3R^8-12\,l^2R^9+3584\,r^2R^9+392\,rR^{10}-4\,R^{11}\big)\Big/$$
$$\big((2\,r-R)\ (l^4-2\,l^2r^2+r^4-8\,l^2rR+8\,r^3R-6\,l^2R^2+22\,r^2R^2+24\,rR^3+7\,R^4)^2\big)\}$$

$$\left\{X71,\ \text{ISOGONAL CONJUGATE OF } X(27),\ X72,\ \text{ISOGONAL CONJUGATE OF } X(28),\ -\frac{1}{R\left(l^2+r^2+6\,r\,R+8\,R^2\right)^2}\right.$$
$$\left(-l^6\,r-l^4\,r^3+l^2\,r^5+r^7+l^6\,R-6\,l^4\,r^2\,R+9\,l^2\,r^4\,R+16\,r^6\,R-8\,l^4\,r\,R^2+24\,l^2\,r^3\,R^2+104\,r^5\,R^2-\right.$$
$$\left.\left.4\,l^4\,R^3+16\,l^2\,r^2\,R^3+352\,r^4\,R^3-16\,l^2\,r\,R^4+656\,r^3\,R^4-16\,l^2\,R^5+640\,r^2\,R^5+256\,r\,R^6\right)\right\}$$

$$\left\{X71,\ \text{ISOGONAL CONJUGATE OF } X(27),\ X73,\right.$$
$$\text{CROSSPOINT OF INCENTER AND CIRCUMCENTER},\ \frac{1}{\left(l^2+r^2-2\,r\,R-4\,R^2\right)^2\left(l^2+r^2+6\,r\,R+8\,R^2\right)^2}$$
$$4\,R^2\left(3\,l^8-4\,l^6\,r^2-14\,l^4\,r^4-4\,l^2\,r^6+3\,r^8-20\,l^6\,r\,R-60\,l^4\,r^3\,R+4\,l^2\,r^5\,R+44\,r^7\,R-\right.$$
$$\left.\left.20\,l^6\,R^2-48\,l^4\,r^2\,R^2+156\,l^2\,r^4\,R^2+248\,r^6\,R^2+32\,l^4\,r\,R^3+544\,l^2\,r^3\,R^3+640\,r^5\,R^3+\right.\right.$$
$$\left.\left.16\,l^4\,R^4+768\,l^2\,r^2\,R^4+560\,r^4\,R^4+448\,l^2\,r\,R^5-704\,r^3\,R^5+64\,l^2\,R^6-1792\,r^2\,R^6-1024\,r\,R^7\right)\right\}$$

$$\left\{X71,\ \text{ISOGONAL CONJUGATE OF } X(27),\ X74,\ \text{ISOGONAL CONJUGATE OF EULER INFINITY POINT},\right.$$
$$\left.\frac{R^2\left(3\,l^2-r^2-8\,r\,R-16\,R^2\right)\left(l^2-3\,r^2-12\,r\,R-12\,R^2\right)^2}{\left(2\,l^2-2\,r^2-8\,r\,R-9\,R^2\right)\left(l^2+r^2+6\,r\,R+8\,R^2\right)^2}\right\}$$

$$\left\{X71,\ \text{ISOGONAL CONJUGATE OF } X(27),\ X75,\right.$$
$$\text{ISOTOMIC CONJUGATE OF INCENTER},\ -\frac{1}{\left(l^2+r^2+4\,r\,R\right)^2\left(l^2+r^2+6\,r\,R+8\,R^2\right)^2}$$
$$\left(l^{10}+5\,l^8\,r^2+10\,l^6\,r^4+10\,l^4\,r^6+5\,l^2\,r^8+r^{10}+8\,l^8\,r\,R+16\,l^6\,r^3\,R+32\,l^4\,r^5\,R+\right.$$
$$48\,l^2\,r^7\,R+24\,r^9\,R-4\,l^8\,R^2-24\,l^6\,r^2\,R^2-176\,l^4\,r^4\,R^2+88\,l^2\,r^6\,R^2+244\,r^8\,R^2-16\,l^6\,r\,R^3-$$
$$720\,l^4\,r^3\,R^3-496\,l^2\,r^5\,R^3+1360\,r^7\,R^3-16\,l^6\,R^4-480\,l^4\,r^2\,R^4-2448\,l^2\,r^4\,R^4+4480\,r^6\,R^4+$$
$$\left.\left.384\,l^4\,r\,R^5-3968\,l^2\,r^3\,R^5+8704\,r^5\,R^5-2304\,l^2\,r^2\,R^6+9216\,r^4\,R^6+4096\,r^3\,R^7\right)\right\}$$

$$\left\{X71,\ \text{ISOGONAL CONJUGATE OF } X(27),\ X76,\ \text{3rd BROCARD POINT},\right.$$
$$-\left(\left(l^{14}+7\,l^{12}\,r^2+21\,l^{10}\,r^4+35\,l^8\,r^6+35\,l^6\,r^8+21\,l^4\,r^{10}+7\,l^2\,r^{12}+r^{14}-16\,l^{12}\,r\,R-48\,l^{10}\,r^3\,R+\right.\right.$$
$$160\,l^6\,r^7\,R+240\,l^4\,r^9\,R+144\,l^2\,r^{11}\,R+32\,r^{13}\,R-4\,l^{12}\,R^2+48\,l^{10}\,r^2\,R^2-212\,l^8\,r^4\,R^2-$$
$$256\,l^6\,r^6\,R^2+788\,l^4\,r^8\,R^2+1232\,l^2\,r^{10}\,R^2+452\,r^{12}\,R^2+16\,l^{10}\,r\,R^3+240\,l^8\,r^3\,R^3-$$
$$2336\,l^6\,r^5\,R^3-608\,l^4\,r^7\,R^3+5648\,l^2\,r^9\,R^3+3696\,r^{11}\,R^3-16\,l^{10}\,R^4+448\,l^8\,r^2\,R^4-$$
$$3296\,l^6\,r^4\,R^4-9216\,l^4\,r^6\,R^4+14\,832\,l^2\,r^8\,R^4+19\,264\,r^{10}\,R^4+256\,l^8\,r\,R^5-256\,l^6\,r^3\,R^5-$$
$$21\,504\,l^4\,r^5\,R^5+21\,760\,l^2\,r^7\,R^5+66\,304\,r^9\,R^5+512\,l^6\,r^2\,R^6-21\,504\,l^4\,r^4\,R^6+14\,848\,l^2\,r^6\,R^6+$$
$$\left.\left.150\,528\,r^8\,R^6-8192\,l^4\,r^3\,R^7+217\,088\,r^7\,R^7-4096\,l^2\,r^4\,R^8+180\,224\,r^6\,R^8+65\,536\,r^5\,R^9\right)\Big/$$
$$\left.\left.\left(\left(l^2+r^2+6\,r\,R+8\,R^2\right)^2\left(l^4+2\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R+16\,r^2\,R^2\right)^2\right)\right)\right\}$$

$$\left\{X71,\ \text{ISOGONAL CONJUGATE OF } X(27),\ X77,\right.$$
$$\text{ISOGONAL CONJUGATE OF } X(33),\ -\frac{1}{\left(l^2-r\,R-4\,R^2\right)^2\left(l^2+r^2+6\,r\,R+8\,R^2\right)^2}$$
$$R\left(2\,l^8\,r+2\,l^6\,r^3-2\,l^4\,r^5-2\,l^2\,r^7-12\,l^8\,R+33\,l^6\,r^2\,R-5\,l^4\,r^4\,R-33\,l^2\,r^6\,R+r^8\,R+\right.$$
$$72\,l^6\,r\,R^2+16\,l^4\,r^3\,R^2-240\,l^2\,r^5\,R^2+24\,r^7\,R^2+80\,l^6\,R^3-4\,l^4\,r^2\,R^3-992\,l^2\,r^4\,R^3+$$
$$244\,r^6\,R^3-96\,l^4\,r\,R^4-2416\,l^2\,r^3\,R^4+1360\,r^5\,R^4-64\,l^4\,R^5-3216\,l^2\,r^2\,R^5+$$
$$\left.\left.4480\,r^4\,R^5-1920\,l^2\,r\,R^6+8704\,r^3\,R^6-256\,l^2\,R^7+9216\,r^2\,R^7+4096\,r\,R^8\right)\right\}$$

$$\left\{X71,\ \text{ISOGONAL CONJUGATE OF } X(27),\ X78,\ \text{ISOGONAL CONJUGATE OF } X(34),\right.$$
$$-\left(\left(R\left(-2\,l^6\,r-2\,l^4\,r^3+2\,l^2\,r^5+2\,r^7+l^6\,R-13\,l^4\,r^2\,R+31\,l^2\,r^4\,R+\right.\right.\right.$$
$$\left.\left.\left.29\,r^6\,R+88\,l^2\,r^3\,R^2+168\,r^5\,R^2-4\,l^4\,R^3+48\,l^2\,r^2\,R^3+500\,r^4\,R^3-48\,l^2\,r\,R^4+\right.\right.\right.$$
$$\left.\left.\left.816\,r^3\,R^4-16\,l^2\,R^5+704\,r^2\,R^5+256\,r\,R^6\right)\right)\Big/\left((r-R)^2\left(l^2+r^2+6\,r\,R+8\,R^2\right)^2\right)\right)\right\}$$

$$\left\{X71,\ \text{ISOGONAL CONJUGATE OF } X(27),\ X79,\ \text{ISOGONAL CONJUGATE OF } X(35),\right.$$
$$-\left(\left(4\left(4\,l^6\,r^2+8\,l^4\,r^4+4\,l^2\,r^6+3\,l^6\,r\,R+39\,l^4\,r^3\,R+37\,l^2\,r^5\,R+r^7\,R+38\,l^4\,r^2\,R^2+120\,l^2\,r^4\,R^2+\right.\right.\right.$$
$$\left.\left.\left.18\,r^6\,R^2-27\,l^4\,r\,R^3+146\,l^2\,r^3\,R^3+133\,r^5\,R^3-27\,l^4\,R^4+5\,l^2\,r^2\,R^4+516\,r^4\,R^4-96\,l^2\,r\,R^5+\right.\right.\right.$$
$$\left.\left.\left.1108\,r^3\,R^5-36\,l^2\,R^6+1248\,r^2\,R^6+576\,r\,R^7\right)\right)\Big/\left((2\,r+3\,R)^2\left(l^2+r^2+6\,r\,R+8\,R^2\right)^2\right)\right)\right\}$$

$$\{X71,\ \text{ISOGONAL CONJUGATE OF } X(27),\ X80,\ \text{REFLECTION OF INCENTER IN FEUERBACH POINT},\ \left(4\left(-l^6 r - l^4 r^3 + l^2 r^5 + r^7 - 2 l^4 r^2 R + 12 l^2 r^4 R + 14 r^6 R - l^4 r R^2 + 44 l^2 r^3 R^2 + 77 r^5 R^2 - 3 l^4 R^3 + 61 l^2 r^2 R^3 + 212 r^4 R^3 + 24 l^2 r R^4 + 308 r^3 R^4 - 4 l^2 R^5 + 224 r^2 R^5 + 64 r R^6\right)\right) / \left((2 r - R)\left(l^2 + r^2 + 6 r R + 8 R^2\right)^2\right)\}$$

$$\{X71,\ \text{ISOGONAL CONJUGATE OF } X(27),\ X81,\ \text{CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},\ -\left(\left(R\left(2 l^8 r + 6 l^6 r^3 + 6 l^4 r^5 + 2 l^2 r^7 - 12 l^8 R + 61 l^6 r^2 R + 47 l^4 r^4 R + 39 l^2 r^6 R + r^8 R + 64 l^6 r R^2 + 216 l^4 r^3 R^2 + 232 l^2 r^5 R^2 + 16 r^7 R^2 - 16 l^6 R^3 + 396 l^4 r^2 R^3 + 656 l^2 r^4 R^3 + 100 r^6 R^3 + 224 l^4 r R^4 + 912 l^2 r^3 R^4 + 304 r^5 R^4 + 496 l^2 r^2 R^5 + 448 r^4 R^5 + 256 r^3 R^6\right)\right) / \left(\left(l^2 - r^2 - r R\right)^2\left(l^2 + r^2 + 6 r R + 8 R^2\right)^2\right)\right)\}$$

$$\{X71,\ \text{ISOGONAL CONJUGATE OF } X(27),\ X82,\ \text{ISOGONAL CONJUGATE OF } X(38),\ -\left(\left(R\left(2 l^{12} r + 4 l^{10} r^3 - 2 l^8 r^5 - 8 l^6 r^7 - 2 l^4 r^9 + 4 l^2 r^{11} + 2 r^{13} - 12 l^{12} R + 85 l^{10} r^2 R - 283 l^8 r^4 R + 370 l^6 r^6 R - 258 l^4 r^8 R + 73 l^2 r^{10} R + 57 r^{12} R + 256 l^{10} r R^2 - 1488 l^8 r^3 R^2 + 3152 l^6 r^5 R^2 - 2608 l^4 r^7 R^2 + 368 l^2 r^9 R^2 + 704 r^{11} R^2 - 16 l^{10} R^3 - 1908 l^8 r^2 R^3 + 7896 l^6 r^4 R^3 - 9088 l^4 r^6 R^3 - 648 l^2 r^8 R^3 + 4916 r^{10} R^3 + 480 l^8 r R^4 + 4240 l^6 r^3 R^4 - 8880 l^4 r^5 R^4 - 12560 l^2 r^7 R^4 + 21200 r^9 R^4 - 4752 l^6 r^2 R^5 + 12320 l^4 r^4 R^5 - 46864 l^2 r^6 R^5 + 57728 r^8 R^5 + 21376 l^4 r^3 R^6 - 75136 l^2 r^5 R^6 + 96768 r^7 R^6 - 45312 l^2 r^4 R^7 + 91136 r^6 R^7 + 36864 r^5 R^8\right)\right) / \left(\left(l^2 + r^2 + 6 r R + 8 R^2\right)^2\left(l^4 - 4 l^2 r^2 + 3 r^4 - 9 l^2 r R + 19 r^3 R + 28 r^2 R^2\right)^2\right)\right)\}$$

$$\{X71,\ \text{ISOGONAL CONJUGATE OF } X(27),\ X83,\ \text{CEVAPOINT OF CENTROID AND SYMMEDIAN POINT},\ -\left(\left(9 l^{14} + 39 l^{12} r^2 + 61 l^{10} r^4 + 35 l^8 r^6 - 5 l^6 r^8 - 11 l^4 r^{10} - l^2 r^{12} + r^{14} - 112 l^{12} r R - 144 l^{10} r^3 R + 64 l^8 r^5 R - 32 l^6 r^7 R - 240 l^4 r^9 R - 80 l^2 r^{11} R + 32 r^{13} R - 196 l^{12} R^2 + 1360 l^{10} r^2 R^2 - 1428 l^8 r^4 R^2 + 1152 l^6 r^6 R^2 - 1900 l^4 r^8 R^2 - 1488 l^2 r^{10} R^2 + 452 r^{12} R^2 + 3344 l^{10} r R^3 - 11792 l^8 r^3 R^3 + 11488 l^6 r^5 R^3 - 6496 l^4 r^7 R^3 - 13040 l^2 r^9 R^3 + 3696 r^{11} R^3 - 144 l^{10} R^4 - 18624 l^8 r^2 R^4 + 35232 l^6 r^4 R^4 - 4480 l^4 r^6 R^4 - 64528 l^2 r^8 R^4 + 19264 r^{10} R^4 + 3840 l^8 r R^5 + 23296 l^6 r^3 R^5 + 35328 l^4 r^5 R^5 - 191232 l^2 r^7 R^5 + 66304 r^9 R^5 - 30208 l^6 r^2 R^6 + 107520 l^4 r^4 R^6 - 337408 l^2 r^6 R^6 + 150528 r^8 R^6 + 98304 l^4 r^3 R^7 - 327680 l^2 r^5 R^7 + 217088 r^7 R^7 - 135168 l^2 r^4 R^8 + 180224 r^6 R^8 + 65536 r^5 R^9\right) / \left(\left(l^2 + r^2 + 6 r R + 8 R^2\right)^2\left(5 l^4 - 6 l^2 r^2 + 5 r^4 - 40 l^2 r R + 40 r^3 R + 80 r^2 R^2\right)^2\right)\right)\}$$

$$\left\{X71,\ \text{ISOGONAL CONJUGATE OF } X(27),\ X84,\ \text{ISOGONAL CONJUGATE OF } X(40),\ \frac{1}{r^2\left(l^2 + r^2 + 6 r R + 8 R^2\right)^2} 4 R^2\left(-l^6 + 5 l^4 r^2 + 2 l^2 r^4 + 24 l^2 r^3 R - 12 l^4 R^2 + 64 l^2 r^2 R^2 + 4 r^4 R^2 + 48 l^2 r R^3 + 48 r^3 R^3 + 208 r^2 R^4 + 384 r R^5 + 256 R^6\right)\right\}$$

$$\{X71,\ \text{ISOGONAL CONJUGATE OF } X(27),\ X85,\ \text{ISOTOMIC CONJUGATE OF } X(9),\ -\frac{1}{\left(l^2 + r^2 + 6 r R + 8 R^2\right)^2\left(l^2 + r^2 + 8 r R + 16 R^2\right)^2}\left(l^{10} + 5 l^8 r^2 + 10 l^6 r^4 + 10 l^4 r^6 + 5 l^2 r^8 + r^{10} + 32 l^8 r R + 96 l^6 r^3 R + 128 l^4 r^5 R + 96 l^2 r^7 R + 32 r^9 R + 28 l^8 R^2 + 280 l^6 r^2 R^2 + 544 l^4 r^4 R^2 + 744 l^2 r^6 R^2 + 452 r^8 R^2 + 208 l^6 r R^3 + 592 l^4 r^3 R^3 + 2928 l^2 r^5 R^3 + 3696 r^7 R^3 - 16 l^6 R^4 - 1568 l^4 r^2 R^4 + 5872 l^2 r^4 R^4 + 19264 r^6 R^4 - 4096 l^4 r R^5 + 4352 l^2 r^3 R^5 + 66304 r^5 R^5 - 2560 l^4 R^6 - 3584 l^2 r^2 R^6 + 150528 r^4 R^6 - 8192 l^2 r R^7 + 217088 r^3 R^7 - 4096 l^2 R^8 + 180224 r^2 R^8 + 65536 r R^9\right)\}$$

$$\{X71,\ \text{ISOGONAL CONJUGATE OF } X(27),\ X86,\ \text{CEVAPOINT OF INCENTER AND CENTROID},\ -\frac{1}{\left(5 l^2 + r^2 + 4 r R\right)^2\left(l^2 + r^2 + 6 r R + 8 R^2\right)^2}\left(9 l^{10} + 37 l^8 r^2 + 58 l^6 r^4 + 42 l^4 r^6 + 13 l^2 r^8 + r^{10} + 72 l^8 r R + 304 l^6 r^3 R + 416 l^4 r^5 R + 208 l^2 r^7 R + 24 r^9 R - 196 l^8 R^2 + 584 l^6 r^2 R^2 + 1680 l^4 r^4 R^2 + 1400 l^2 r^6 R^2 + 244 r^8 R^2 + 176 l^6 r R^3 + 3696 l^4 r^3 R^3 + 5136 l^2 r^5 R^3 + 1360 r^7 R^3 - 144 l^6 R^4 + 4256 l^4 r^2 R^4 + 10864 l^2 r^4 R^4 + 4480 r^6 R^4 + 1920 l^4 r R^5 + 12416 l^2 r^3 R^5 + 8704 r^5 R^5 + 5888 l^2 r^2 R^6 + 9216 r^4 R^6 + 4096 r^3 R^7\right)\}$$

$$\{X71,\ \text{ISOGONAL CONJUGATE OF } X(27),\ X87,\ X(2)\text{-CROSS CONJUGATE OF } X(1),$$
$$\big(4R\,(l^{12}r+6l^{10}r^3+15l^8r^5+20l^6r^7+15l^4r^9+6l^2r^{11}+r^{13}+3l^{12}R-13l^{10}r^2R-58l^8r^4R-$$
$$42l^6r^6R+47l^4r^8R+71l^2r^{10}R+24r^{12}R-112l^{10}rR^2-12l^8r^3R^2+112l^6r^5R^2+56l^4r^7R^2+$$
$$288l^2r^9R^2+244r^{11}R^2+4l^{10}R^3+1200l^8r^2R^3-1016l^6r^4R^3+864l^4r^6R^3+340l^2r^8R^3+$$
$$1360r^{10}R^3-160l^8rR^4-2336l^6r^3R^4+800l^4r^5R^4-736l^2r^7R^4+4480r^9R^4+2112l^6r^2R^5-$$
$$6016l^4r^4R^5-2496l^2r^6R^5+8704r^8R^5-9216l^4r^3R^6-2048l^2r^5R^6+9216r^7R^6+4096r^6R^7)\big)\,/$$
$$\big((l^2+r^2+6rR+8R^2)^2\,(l^4+2l^2r^2+r^4-20l^2rR+12r^3R+32r^2R^2)^2\big)\}$$

$$\{X71,\ \text{ISOGONAL CONJUGATE OF } X(27),\ X88,$$
$$\text{ISOGONAL CONJUGATE OF } X(44),\ \frac{1}{(l^2+3r^2-15rR)^2\,(l^2+r^2+6rR+8R^2)^2}$$
$$R\,(2l^8r+22l^6r^3+38l^4r^5+18l^2r^7+12l^8R-13l^6r^2R-159l^4r^4R-279l^2r^6R-81r^8R-$$
$$352l^6rR^2-232l^4r^3R^2-792l^2r^5R^2-1296r^7R^2+16l^6R^3+2292l^4r^2R^3+1584l^2r^4R^3-$$
$$8100r^6R^3-544l^4rR^4+6768l^2r^3R^4-24624r^5R^4+5904l^2r^2R^5-36288r^4R^5-20736r^3R^6)\}$$

$$\{X71,\ \text{ISOGONAL CONJUGATE OF } X(27),\ X89,$$
$$\text{ISOGONAL CONJUGATE OF } X(45),\ -\frac{1}{(2l^2-6r^2+3rR)^2\,(l^2+r^2+6rR+8R^2)^2}$$
$$R\,(4l^8r+44l^6r^3+76l^4r^5+36l^2r^7-48l^8R+373l^6r^2R+459l^4r^4R+1143l^2r^6R+81r^8R-$$
$$32l^6rR^2+2176l^4r^3R^2+6192l^2r^5R^2+1296r^7R^2-64l^6R^3+2124l^4r^2R^3+14832l^2r^4R^3+$$
$$8100r^6R^3+448l^4rR^4+17424l^2r^3R^4+24624r^5R^4+7920l^2r^2R^5+36288r^4R^5+20736r^3R^6)\}$$

$$\{X71,\ \text{ISOGONAL CONJUGATE OF } X(27),\ X90,\ X(3)\text{-CROSS CONJUGATE OF } X(1),$$
$$\big(4R^2\,(-2l^6r^2+3l^4r^4+l^2r^6+l^6rR+6l^4r^3R+13l^2r^5R-2l^4r^2R^2+50l^2r^4R^2-5l^4rR^3+70l^2r^3R^3-$$
$$r^5R^3+3l^4R^4+11l^2r^2R^4-12r^4R^4-32l^2rR^5-52r^3R^5+4l^2R^6-96r^2R^6-64rR^7)\big)\,/$$
$$\big((r^2+2rR-R^2)^2\,(l^2+r^2+6rR+8R^2)^2\big)\}$$

$$\{X71,\ \text{ISOGONAL CONJUGATE OF } X(27),\ X91,\ \text{ISOGONAL CONJUGATE OF } X(47),$$
$$-\frac{1}{(l^2+r^2+6rR+8R^2)^2\,(l^2r+r^3-l^2R+3r^2R+2rR^2+2R^3)^2}$$
$$(l^{10}r^2+5l^8r^4+10l^6r^6+10l^4r^8+5l^2r^{10}+r^{12}-2l^{10}rR+2l^8r^3R+12l^6r^5R+36l^4r^7R+$$
$$54l^2r^9R+26r^{11}R-24l^6r^4R^2-136l^4r^6R^2+184l^2r^8R^2+296r^{10}R^2+12l^8rR^3+$$
$$72l^6r^3R^3-768l^4r^5R^3-40l^2r^7R^3+1940r^9R^3-12l^8R^4+224l^6r^2R^4-1144l^4r^4R^4-$$
$$2048l^2r^6R^4+8100r^8R^4+104l^6rR^5-616l^4r^3R^5-6728l^2r^5R^5+22536r^7R^5+32l^6R^6-$$
$$80l^4r^2R^6-11232l^2r^4R^6+42512r^6R^6+80l^4rR^7-10560l^2r^3R^7+54320r^5R^7+16l^4R^8-$$
$$5232l^2r^2R^8+46144r^4R^8-1152l^2rR^9+24896r^3R^9-64l^2R^{10}+7680r^2R^{10}+1024rR^{11})\}$$

$$\{X71,\ \text{ISOGONAL CONJUGATE OF } X(27),\ X92,$$
$$\text{CEVAPOINT OF INCENTER AND CLAWSON POINT},\ -\frac{1}{(l^2+r^2-4R^2)^2\,(l^2+r^2+6rR+8R^2)^2}$$
$$(l^{10}+5l^8r^2+10l^6r^4+10l^4r^6+5l^2r^8+r^{10}+8l^8rR+16l^6r^3R+32l^4r^5R+48l^2r^7R+24r^9R-$$
$$12l^8R^2-8l^6r^2R^2-112l^4r^4R^2+136l^2r^6R^2+252r^8R^2+16l^6rR^3-496l^4r^3R^3-144l^2r^5R^3+$$
$$1520r^7R^3+32l^6R^4-400l^4r^2R^4-1728l^2r^4R^4+5808r^6R^4+128l^4rR^5-4224l^2r^3R^5+14592r^5R^5+$$
$$64l^4R^6-4736l^2r^2R^6+24128r^4R^6-2304l^2rR^7+25344r^3R^7-256l^2R^8+15360r^2R^8+4096rR^9)\}$$

$$\{X71,\ \text{ISOGONAL CONJUGATE OF } X(27),\ X93,\ \text{ISOGONAL CONJUGATE OF } X(49),$$
$$-\Big(\big(l^{14}+7 l^{12} r^2+21 l^{10} r^4+35 l^8 r^6+35 l^6 r^8+21 l^4 r^{10}+7 l^2 r^{12}+r^{14}-16 l^{12} r R-48 l^{10} r^3 R+160 l^6 r^7 R+240 l^4 r^9 R+144 l^2 r^{11} R+32 r^{13} R-22 l^{12} R^2+16 l^{10} r^2 R^2-150 l^8 r^4 R^2-48 l^6 r^6 R^2+990 l^4 r^8 R^2+1312 l^2 r^{10} R^2+462 r^{12} R^2+200 l^{10} r R^3+552 l^8 r^3 R^3-1456 l^6 r^5 R^3+1232 l^4 r^7 R^3+7016 l^2 r^9 R^3+3976 r^{11} R^3+116 l^{10} R^4+840 l^8 r^2 R^4-4024 l^6 r^4 R^4-3792 l^4 r^6 R^4+24676 l^2 r^8 R^4+22696 r^{10} R^4-80 l^8 r R^5-6704 l^6 r^3 R^5-17712 l^4 r^5 R^5+60912 l^2 r^7 R^5+90432 r^9 R^5-226 l^8 R^6-6244 l^6 r^2 R^6-30336 l^4 r^4 R^6+110372 l^2 r^6 R^6+257570 r^8 R^6-1944 l^6 r R^7-24328 l^4 r^3 R^7+150328 l^2 r^5 R^7+527528 r^7 R^7+251 l^6 R^8-6315 l^4 r^2 R^8+150633 l^2 r^4 R^8+769487 r^6 R^8+1168 l^4 r R^9+100288 l^2 r^3 R^9+777712 r^5 R^9-152 l^4 R^{10}+34336 l^2 r^2 R^{10}+516024 r^4 R^{10}+1568 l^2 r R^{11}+202784 r^3 R^{11}-720 l^2 R^{12}+37744 r^2 R^{12}+1408 r R^{13}-256 R^{14}\big)\Big/\Big(\big(l^2+r^2+6 r R+8 R^2\big)^2\big(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-8 l^2 R^2+24 r^2 R^2+32 r R^3+13 R^4\big)^2\Big)\Big)\}$$

$$\{X71,\ \text{ISOGONAL CONJUGATE OF } X(27),\ X94,\ \text{ISOGONAL CONJUGATE OF } X(50),$$
$$-\Big(\big(l^{14}+7 l^{12} r^2+21 l^{10} r^4+35 l^8 r^6+35 l^6 r^8+21 l^4 r^{10}+7 l^2 r^{12}+r^{14}-16 l^{12} r R-48 l^{10} r^3 R+160 l^6 r^7 R+240 l^4 r^9 R+144 l^2 r^{11} R+32 r^{13} R-28 l^{12} R^2-12 l^{10} r^2 R^2-200 l^8 r^4 R^2-88 l^6 r^6 R^2+980 l^4 r^8 R^2+1316 l^2 r^{10} R^2+464 r^{12} R^2+256 l^{10} r R^3+576 l^8 r^3 R^3-1664 l^6 r^5 R^3+1024 l^4 r^7 R^3+7040 l^2 r^9 R^3+4032 r^{11} R^3+194 l^{10} R^4+1150 l^8 r^2 R^4-4268 l^6 r^4 R^4-5220 l^4 r^6 R^4+24426 l^2 r^8 R^4+23398 r^{10} R^4-608 l^8 r R^5-5776 l^6 r^3 R^5-22896 l^4 r^5 R^5+57424 l^2 r^7 R^5+95632 r^9 R^5-1080 l^8 R^6-2116 l^6 r^2 R^6-42492 l^4 r^4 R^6+92404 l^2 r^6 R^6+282852 r^8 R^6+4368 l^6 r R^7-44432 l^4 r^3 R^7+99504 l^2 r^5 R^7+612176 r^7 R^7+3717 l^6 R^8-28965 l^4 r^2 R^8+66071 l^2 r^4 R^8+968321 r^6 R^8-13680 l^4 r R^9+19680 l^2 r^3 R^9+1104400 r^5 R^9-4212 l^4 R^{10}-4752 l^2 r^2 R^{10}+882084 r^4 R^{10}-5616 l^2 r R^{11}+466992 r^3 R^{11}-1296 l^2 R^{12}+146880 r^2 R^{12}+20736 r R^{13}\big)\Big/\Big(\big(l^2+r^2+6 r R+8 R^2\big)^2\big(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-12 l^2 R^2+28 r^2 R^2+48 r R^3+27 R^4\big)^2\Big)\Big)\}$$

$$\{X71,\ \text{ISOGONAL CONJUGATE OF } X(27),\ X95,\ \text{CEVAPOINT OF CENTROID AND CIRCUMCENTER},$$
$$-\Big(\big(l^{14}+23 l^{12} r^2+101 l^{10} r^4+195 l^8 r^6+195 l^6 r^8+101 l^4 r^{10}+23 l^2 r^{12}+r^{14}-16 l^{12} r R-176 l^{10} r^3 R+928 l^6 r^7 R+1264 l^4 r^9 R+528 l^2 r^{11} R+32 r^{13} R-12 l^{12} R^2-144 l^{10} r^2 R^2-2364 l^8 r^4 R^2+3072 l^6 r^6 R^2+6012 l^4 r^8 R^2+5264 l^2 r^{10} R^2+460 r^{12} R^2+112 l^{10} r R^3+1744 l^8 r^3 R^3+4640 l^6 r^5 R^3+12512 l^4 r^7 R^3+29808 l^2 r^9 R^3+3920 r^{11} R^3+32 l^{10} R^4+1520 l^8 r^2 R^4-2880 l^6 r^4 R^4+6176 l^4 r^6 R^4+105248 l^2 r^8 R^4+22000 r^{10} R^4+128 l^8 r R^5-11264 l^6 r^3 R^5-15872 l^4 r^5 R^5+239616 l^2 r^7 R^5+85376 r^9 R^5+64 l^8 R^6-6656 l^6 r^2 R^6-21888 l^4 r^4 R^6+352768 l^2 r^6 R^6+233792 r^8 R^6-1792 l^6 r R^7-8448 l^4 r^3 R^7+332544 l^2 r^5 R^7+451840 r^7 R^7-256 l^6 R^8-2560 l^4 r^2 R^8+204544 l^2 r^4 R^8+604160 r^6 R^8+2048 l^4 r R^9+92160 l^2 r^3 R^9+532480 r^5 R^9+28672 l^2 r^2 R^{10}+278528 r^4 R^{10}+65536 r^3 R^{11}\big)\Big/\Big(\big(l^2+r^2+6 r R+8 R^2\big)^2\big(l^4+18 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-4 l^2 R^2+20 r^2 R^2+16 r R^3\big)^2\Big)\Big)\}$$

$$\{X71,\ \text{ISOGONAL CONJUGATE OF } X(27),\ X96,\ \text{ISOGONAL CONJUGATE OF } X(52),$$
$$\Big(l^{14}-9 l^{12} r^2-59 l^{10} r^4-125 l^8 r^6-125 l^6 r^8-59 l^4 r^{10}-9 l^2 r^{12}+r^{14}-16 l^{12} r R+80 l^{10} r^3 R-608 l^6 r^7 R-784 l^4 r^9 R-240 l^2 r^{11} R+32 r^{13} R+8 l^{12} R^2-136 l^{10} r^2 R^2+2208 l^8 r^4 R^2-2000 l^6 r^6 R^2-3576 l^4 r^8 R^2-2856 l^2 r^{10} R^2+464 r^{12} R^2-192 l^{10} r R^3+3456 l^8 r^3 R^3-8256 l^6 r^5 R^3-3136 l^4 r^7 R^3-19968 l^2 r^9 R^3+4032 r^{11} R^3-8 l^{10} R^4+2152 l^8 r^2 R^4-21232 l^6 r^4 R^4+29232 l^4 r^6 R^4-90888 l^2 r^8 R^4+23400 r^{10} R^4+640 l^8 r R^5-27200 l^6 r^3 R^5+121792 l^4 r^5 R^5-282048 l^2 r^7 R^5+95680 r^9 R^5+192 l^8 R^6-19552 l^6 r^2 R^6+220128 l^4 r^4 R^6-607776 l^2 r^6 R^6+283360 r^8 R^6-8064 l^6 r R^7+217984 l^4 r^3 R^7-909696 l^2 r^5 R^7+615296 r^7 R^7-1712 l^6 R^8+123056 l^4 r^2 R^8-932112 l^2 r^4 R^8+980624 r^6 R^8+37632 l^4 r R^9-634368 l^2 r^3 R^9+1136896 r^5 R^9+4992 l^4 R^{10}-271872 l^2 r^2 R^{10}+940160 r^4 R^{10}-66048 l^2 r R^{11}+536064 r^3 R^{11}-6912 l^2 R^{12}+198912 r^2 R^{12}+43008 r R^{13}+4096 R^{14}\Big)\Big/\Big(\big(l^2+r^2+6 r R+8 R^2\big)^2\big(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2-4 R^4\big)^2\Big)\}$$

$$\{X71,\ \text{ISOGONAL CONJUGATE OF } X(27),\ X97,\ \text{ISOGONAL CONJUGATE OF } X(53),$$
$$\Big(R^2\big(14 l^{12} - 146 l^{10} r^2 + 444 l^8 r^4 - 404 l^6 r^6 + 22 l^4 r^8 + 6 l^2 r^{10} - 224 l^{10} r R + 1504 l^8 r^3 R - 2336 l^6 r^5 R + 160 l^4 r^7 R + 128 l^2 r^9 R - 149 l^{10} R^2 + 2215 l^8 r^2 R^2 - 5534 l^6 r^4 R^2 + 186 l^4 r^6 R^2 + 1171 l^2 r^8 R^2 - r^{10} R^2 + 1624 l^8 r R^3 - 7152 l^6 r^3 R^3 - 1664 l^4 r^5 R^3 + 6064 l^2 r^7 R^3 - 24 r^9 R^3 + 540 l^8 R^4 - 5464 l^6 r^2 R^4 - 7136 l^4 r^4 R^4 + 19736 l^2 r^6 R^4 - 252 r^8 R^4 - 2512 l^6 r R^5 - 12240 l^4 r^3 R^5 + 42384 l^2 r^5 R^5 - 1520 r^7 R^5 - 736 l^6 R^6 - 10544 l^4 r^2 R^6 + 61248 l^2 r^4 R^6 - 5808 r^6 R^6 - 3968 l^4 r R^7 + 59008 l^2 r^3 R^7 - 14592 r^5 R^7 + 192 l^4 R^8 + 35456 l^2 r^2 R^8 - 24128 r^4 R^8 + 10496 l^2 r R^9 - 25344 r^3 R^9 + 256 l^2 R^{10} - 15360 r^2 R^{10} - 4096 r R^{11}\big)\Big) \Big/ \Big(\big(l^2 + r^2 + 6 r R + 8 R^2\big)^2 \big(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 7 l^2 R^2 + 23 r^2 R^2 + 28 r R^3 + 12 R^4\big)^2\Big)\}$$

$$\{X71,\ \text{ISOGONAL CONJUGATE OF } X(27),\ X98,\ \text{TarryPoint},$$
$$\Big(l^{10} + 5 l^8 r^2 + 10 l^6 r^4 + 10 l^4 r^6 + 5 l^2 r^8 + r^{10} - 8 l^8 r R + 48 l^4 r^5 R + 64 l^2 r^7 R + 24 r^9 R + 8 l^8 R^2 - 144 l^6 r^2 R^2 + 128 l^4 r^4 R^2 + 272 l^2 r^6 R^2 + 248 r^8 R^2 - 160 l^6 r R^3 + 416 l^4 r^3 R^3 + 224 l^2 r^5 R^3 + 1440 r^7 R^3 - 48 l^6 R^4 + 880 l^4 r^2 R^4 - 1552 l^2 r^4 R^4 + 5136 r^6 R^4 + 768 l^4 r R^5 - 4864 l^2 r^3 R^5 + 11520 r^5 R^5 + 256 l^4 R^6 - 5376 l^2 r^2 R^6 + 15872 r^4 R^6 - 2048 l^2 r R^7 + 12288 r^3 R^7 + 4096 r^2 R^8\Big) \Big/ \Big(\big(l^2 + r^2 + 6 r R + 8 R^2\big)^2 \big(l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\big)\Big)\}$$

$$\{X71,\ \text{ISOGONAL CONJUGATE OF } X(27),\ X99,\ \text{STEINER POINT},$$
$$-\Big(\big(l^{10} + 5 l^8 r^2 + 10 l^6 r^4 + 10 l^4 r^6 + 5 l^2 r^8 + r^{10} - 8 l^8 r R + 48 l^4 r^5 R + 64 l^2 r^7 R + 24 r^9 R - 4 l^8 R^2 + 40 l^6 r^2 R^2 - 112 l^4 r^4 R^2 + 344 l^2 r^6 R^2 + 244 r^8 R^2 - 16 l^6 r R^3 - 528 l^4 r^3 R^3 + 1104 l^2 r^5 R^3 + 1360 r^7 R^3 - 16 l^6 R^4 - 352 l^4 r^2 R^4 + 2416 l^2 r^4 R^4 + 4480 r^6 R^4 + 128 l^4 r R^5 + 3200 l^2 r^3 R^5 + 8704 r^5 R^5 + 1792 l^2 r^2 R^6 + 9216 r^4 R^6 + 4096 r^3 R^7\big) \Big/ \Big(\big(l^2 + r^2 + 6 r R + 8 R^2\big)^2 \big(l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\big)\Big)\Big)\}$$

$$\{X71,\ \text{ISOGONAL CONJUGATE OF } X(27),\ X100,\ \text{ANTICOMPLEMENT OF FEUERBACH POINT},$$
$$\Big(R\big(l^6 + 3 l^4 r^2 + 3 l^2 r^4 + r^6 + 8 l^4 r R - 8 l^2 r^3 R + 16 r^5 R - 4 l^4 R^2 - 80 l^2 r^2 R^2 + 100 r^4 R^2 - 112 l^2 r R^3 + 304 r^3 R^3 - 16 l^2 R^4 + 448 r^2 R^4 + 256 r R^5\big)\Big) \Big/ \Big((2 r - R)\big(l^2 + r^2 + 6 r R + 8 R^2\big)^2\Big)\}$$

$$\{X72,\ \text{ISOGONAL CONJUGATE OF } X(28),\ X73,\ \text{CROSSPOINT OF INCENTER AND CIRCUMCENTER},$$
$$-\frac{1}{R\left(-l^2 - r^2 + 2 r R + 4 R^2\right)^2}\Big(-l^6 r - l^4 r^3 + l^2 r^5 + r^7 - l^6 R + 8 l^4 r^2 R + 11 l^2 r^4 R + 2 r^6 R + 28 l^4 r R^2 - 20 r^5 R^2 + 8 l^4 R^3 - 112 l^2 r^2 R^3 - 60 r^4 R^3 - 160 l^2 r R^4 + 48 r^3 R^4 - 16 l^2 R^5 + 304 r^2 R^5 + 256 r R^6\Big)\}$$

$$\{X72,\ \text{ISOGONAL CONJUGATE OF } X(28),\ X74,$$
$$\text{ISOGONAL CONJUGATE OF EULER INFINITY POINT},\ \frac{(-2 r + R)\left(-l^2 + r^2 + 5 r R + 6 R^2\right)^2}{R\left(-2 l^2 + 2 r^2 + 8 r R + 9 R^2\right)}\}$$

$$\{X72,\ \text{ISOGONAL CONJUGATE OF } X(28),\ X75,\ \text{ISOTOMIC CONJUGATE OF INCENTER},$$
$$-\frac{r^2\left(2 l^4 r + 4 l^2 r^3 + 2 r^5 - 5 l^4 R + 22 l^2 r^2 R + 27 r^4 R + 8 l^2 r R^2 + 136 r^3 R^2 - 16 l^2 R^3 + 304 r^2 R^3 + 256 r R^4\right)}{R\left(l^2 + r^2 + 4 r R\right)^2}$$
$$\}$$

$$\{X72,\ \text{ISOGONAL CONJUGATE OF } X(28),\ X76,$$
$$\text{3rd BROCARD POINT},\ -\frac{1}{R\left(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\right)^2}$$
$$r^2\Big(2 l^8 r + 8 l^6 r^3 + 12 l^4 r^5 + 8 l^2 r^7 + 2 r^9 + 3 l^8 R - 12 l^6 r^2 R + 10 l^4 r^4 R + 68 l^2 r^6 R + 43 r^8 R - 80 l^6 r R^2 + 96 l^4 r^3 R^2 + 48 l^2 r^5 R^2 + 384 r^7 R^2 - 16 l^6 R^3 + 512 l^4 r^2 R^3 - 976 l^2 r^4 R^3 + 1824 r^6 R^3 + 384 l^4 r R^4 - 2944 l^2 r^3 R^4 + 4864 r^5 R^4 - 2304 l^2 r^2 R^5 + 6912 r^4 R^5 + 4096 r^3 R^6\Big)\}$$

$$\{X72,\ \text{ISOGONAL CONJUGATE OF } X(28),\ X77,\ \text{ISOGONAL CONJUGATE OF } X(33),$$
$$-\frac{1}{R\left(-l^2 + r R + 4 R^2\right)^2}\Big(-l^6 r + l^4 r^3 - l^6 R + 9 l^4 r^2 R - 3 l^2 r^4 R + 28 l^4 r R^2 - 32 l^2 r^3 R^2 + 2 r^5 R^2 + 8 l^4 R^3 - 116 l^2 r^2 R^3 + 27 r^4 R^3 - 160 l^2 r R^4 + 136 r^3 R^4 - 16 l^2 R^5 + 304 r^2 R^5 + 256 r R^6\Big)\}$$

$$\left\{X72,\ \text{ISOGONAL CONJUGATE OF } X(28),\ X78,\ \text{ISOGONAL CONJUGATE OF } X(34),\ -\frac{r^2\left(-l^2 r+r^3+5 r^2 R+6 r R^2-R^3\right)}{(r-R)^2 R}\right\}$$

$$\left\{X72,\ \text{ISOGONAL CONJUGATE OF } X(28),\ X79,\ \text{ISOGONAL CONJUGATE OF } X(35),\ -\frac{8 r^5-6 l^2 r^2 R+62 r^4 R-27 l^2 r R^2+183 r^3 R^2-9 l^2 R^3+252 r^2 R^3+144 r R^4}{R\,(2 r+3 R)^2}\right\}$$

$$\left\{X72,\ \text{ISOGONAL CONJUGATE OF } X(28),\ X80,\ \text{REFLECTION OF INCENTER IN FEUERBACH POINT},\ -\frac{4 r^4+l^2 r R+5 r^3 R+l^2 R^2-12 r^2 R^2-16 r R^3}{(2 r-R)\,R}\right\}$$

$$\left\{X72,\ \text{ISOGONAL CONJUGATE OF } X(28),\ X81,\ \text{CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},\ \frac{l^6 r-3 l^4 r^3+3 l^2 r^5-r^7+l^6 R-9 l^4 r^2 R+13 l^2 r^4 R-5 r^6 R-16 l^4 r R^2+20 l^2 r^3 R^2-6 r^5 R^2+r^4 R^3}{R\left(-l^2+r^2+r R\right)^2}\right\}$$

$$\left\{X72,\ \text{ISOGONAL CONJUGATE OF } X(28),\ X82,\ \text{ISOGONAL CONJUGATE OF } X(38),\ -\frac{1}{R\left(l^4-4 l^2 r^2+3 r^4-9 l^2 r R+19 r^3 R+28 r^2 R^2\right)^2}\left(-l^{10} r+9 l^8 r^3-30 l^6 r^5+46 l^4 r^7-33 l^2 r^9+9 r^{11}-l^{10} R+29 l^8 r^2 R-176 l^6 r^4 R+420 l^4 r^6 R-431 l^2 r^8 R+159 r^{10} R+32 l^8 r R^2-392 l^6 r^3 R^2+1522 l^4 r^5 R^2-2292 l^2 r^7 R^2+1170 r^9 R^2-360 l^6 r^2 R^3+2667 l^4 r^4 R^3-6298 l^2 r^6 R^3+4611 r^8 R^3+1984 l^4 r^3 R^4-9048 l^2 r^5 R^4+10\,312 r^7 R^4-5520 l^2 r^4 R^5+12\,464 r^6 R^5+6400 r^5 R^6\right)\right\}$$

$$\left\{X72,\ \text{ISOGONAL CONJUGATE OF } X(28),\ X83,\ \text{CEVAPOINT OF CENTROID AND SYMMEDIAN POINT},\ -\frac{1}{R\left(5 l^4-6 l^2 r^2+5 r^4-40 l^2 r R+40 r^3 R+80 r^2 R^2\right)^2}\left(-20 l^{10} r+94 l^8 r^3-144 l^6 r^5+148 l^4 r^7-76 l^2 r^9+30 r^{11}-16 l^{10} R+491 l^8 r^2 R-1596 l^6 r^4 R+2154 l^4 r^6 R-1532 l^2 r^8 R+611 r^{10} R+480 l^8 r R^2-5104 l^6 r^3 R^2+11\,776 l^4 r^5 R^2-11\,568 l^2 r^7 R^2+5120 r^9 R^2-4752 l^6 r^2 R^3+26\,880 l^4 r^4 R^3-41\,296 l^2 r^6 R^3+22\,560 r^8 R^3+21\,376 l^4 r^3 R^4-70\,016 l^2 r^5 R^4+55\,040 r^7 R^4-45\,312 l^2 r^4 R^5+70\,400 r^6 R^5+36\,864 r^5 R^6\right)\right\}$$

$$\left\{X72,\ \text{ISOGONAL CONJUGATE OF } X(28),\ X84,\ \text{ISOGONAL CONJUGATE OF } X(40),\ -\frac{-l^2 r^3+r^5+3 l^2 r^2 R+4 r^4 R-4 l^2 r R^2+4 l^2 R^3-8 r^2 R^3-16 R^5}{r^2 R}\right\}$$

$$\left\{X72,\ \text{ISOGONAL CONJUGATE OF } X(28),\ X85,\ \text{ISOTOMIC CONJUGATE OF } X(9),\ -\frac{1}{R\left(l^2+r^2+8 r R+16 R^2\right)^2}\left(2 l^4 r^3+4 l^2 r^5+2 r^7-5 l^4 r^2 R+38 l^2 r^4 R+43 r^6 R-16 l^4 r R^2+80 l^2 r^3 R^2+384 r^5 R^2-176 l^2 r^2 R^3+1824 r^4 R^3-640 l^2 r R^4+4864 r^3 R^4-256 l^2 R^5+6912 r^2 R^5+4096 r R^6\right)\right\}$$

$$\left\{X72,\ \text{ISOGONAL CONJUGATE OF } X(28),\ X86,\ \text{CEVAPOINT OF INCENTER AND CENTROID},\ -\frac{1}{R\left(5 l^2+r^2+4 r R\right)^2}\left(-20 l^6 r+26 l^4 r^3+16 l^2 r^5+2 r^7-16 l^6 R+123 l^4 r^2 R+150 l^2 r^4 R+27 r^6 R+224 l^4 r R^2+456 l^2 r^3 R^2+136 r^5 R^2+496 l^2 r^2 R^3+304 r^4 R^3+256 r^3 R^4\right)\right\}$$

$$\left\{X72,\ \text{ISOGONAL CONJUGATE OF } X(28),\ X87,\ X(2)\text{-CROSS CONJUGATE OF } X(1),\ -\frac{1}{R\left(l^4+2l^2r^2+r^4-20l^2rR+12r^3R+32r^2R^2\right)^2}\left(-l^{10}r-3l^8r^3-2l^6r^5+2l^4r^7+3l^2r^9+r^{11}-l^{10}R+40l^8r^2R+26l^6r^4R-44l^4r^6R-l^2r^8R+28r^{10}R+48l^8rR^2-544l^6r^3R^2+608l^4r^5R^2-544l^2r^7R^2+304r^9R^2-800l^6r^2R^3+3120l^4r^4R^3-3648l^2r^6R^3+1648r^8R^3+5120l^4r^3R^4-9600l^2r^5R^4+4736r^7R^4-8448l^2r^4R^5+6912r^6R^5+4096r^5R^6\right)\right\}$$

$$\left\{X72,\ \text{ISOGONAL CONJUGATE OF } X(28),\ X88,\ \text{ISOGONAL CONJUGATE OF } X(44),\ -\frac{1}{R\left(-l^2-3r^2+15rR\right)^2}\left(-l^6r-5l^4r^3-3l^2r^5+9r^7-l^6R+35l^4r^2R+87l^2r^4R-81r^6R+40l^4rR^2-384l^2r^3R^2-126r^5R^2-528l^2r^2R^3+1215r^4R^3+2304r^3R^4\right)\right\}$$

$$\left\{X72,\ \text{ISOGONAL CONJUGATE OF } X(28),\ X89,\ \text{ISOGONAL CONJUGATE OF } X(45),\ -\frac{1}{R\left(2l^2-6r^2+3rR\right)^2}\left(-4l^6r+28l^4r^3-60l^2r^5+36r^7-4l^6R+14l^4r^2R-24l^2r^4R+54r^6R+40l^4rR^2+6l^2r^3R^2-288r^5R^2+348l^2r^2R^3-297r^4R^3+576r^3R^4\right)\right\}$$

$$\left\{X72,\ \text{ISOGONAL CONJUGATE OF } X(28),\ X90,\ X(3)\text{-CROSS CONJUGATE OF } X(1),\ -\frac{-l^2r^5+r^7-l^2r^4R+8r^6R+20r^5R^2+2l^2r^2R^3+8r^4R^3+l^2rR^4-29r^3R^4-l^2R^5-20r^2R^5+16rR^6}{R\left(-r^2-2rR+R^2\right)^2}\right\}$$

$$\left\{X72,\ \text{ISOGONAL CONJUGATE OF } X(28),\ X91,\ \text{ISOGONAL CONJUGATE OF } X(47),\ -\frac{1}{R\left(l^2r+r^3-l^2R+3r^2R+2rR^2+2R^3\right)^2}\left(2l^4r^5+4l^2r^7+2r^9+l^6r^2R-6l^4r^4R+17l^2r^6R+24r^8R-l^6rR^2-5l^4r^3R^2-7l^2r^5R^2+125r^7R^2-l^6R^3+22l^4r^2R^3-117l^2r^4R^3+372r^6R^3+28l^4rR^4-232l^2r^3R^4+692r^5R^4+4l^4R^5-208l^2r^2R^5+824r^4R^5-84l^2rR^6+628r^3R^6-4l^2R^7+288r^2R^7+64rR^8\right)\right\}$$

$$\left\{X72,\ \text{ISOGONAL CONJUGATE OF } X(28),\ X92,\ \text{CEVAPOINT OF INCENTER AND CLAWSON POINT},\ \frac{r^2(-2r+R)\left(l^2+r^2+4rR+4R^2\right)^2}{R\left(-l^2-r^2+4R^2\right)^2}\right\}$$

$$\left\{X72,\ \text{ISOGONAL CONJUGATE OF } X(28),\ X93,\ \text{ISOGONAL CONJUGATE OF } X(49),\ \left(-2l^8r^3-8l^6r^5-12l^4r^7-8l^2r^9-2r^{11}-3l^8r^2R+12l^6r^4R-10l^4r^6R-68l^2r^8R-43r^{10}R-2l^8rR^2+108l^6r^3R^2-64l^4r^5R^2-76l^2r^7R^2-414r^9R^2+100l^6r^2R^3-796l^4r^4R^3+1116l^2r^6R^3-2340r^8R^3+44l^6rR^4-1800l^4r^3R^4+5612l^2r^5R^4-8544r^7R^4+8l^6R^5-1338l^4r^2R^5+11756l^2r^4R^5-20882r^6R^5-414l^4rR^6+12296l^2r^3R^6-34218r^5R^6-48l^4R^7+6132l^2r^2R^7-36564r^4R^7+1292l^2rR^8-23870r^3R^8+72l^2R^9-8359r^2R^9-1172rR^{10}+4R^{11}\right)\Big/\left(R\left(l^4+2l^2r^2+r^4-8l^2rR+8r^3R-8l^2R^2+24r^2R^2+32rR^3+13R^4\right)^2\right)\right\}$$

$$\left\{X72,\ \text{ISOGONAL CONJUGATE OF } X(28),\ X94,\ \text{ISOGONAL CONJUGATE OF } X(50),\ -\left(\left(2l^8r^3+8l^6r^5+12l^4r^7+8l^2r^9+2r^{11}+3l^8r^2R-12l^6r^4R+10l^4r^6R+68l^2r^8R+43r^{10}R+6l^8rR^2-116l^6r^3R^2+48l^4r^5R^2+84l^2r^7R^2+426r^9R^2-184l^6r^2R^3+896l^4r^4R^3-1240l^2r^6R^3+2544r^8R^3-138l^6rR^4+2718l^4r^3R^4-7174l^2r^5R^4+10066r^7R^4-36l^6R^5+3174l^4r^2R^5-18000l^2r^4R^5+27366r^6R^5+1530l^4rR^6-24096l^2r^3R^6+51382r^5R^6+216l^4R^7-16920l^2r^2R^7+65304r^4R^7-5238l^2rR^8+53388r^3R^8-324l^2R^9+25191r^2R^9+5184rR^{10}\right)\Big/\left(R\left(l^4+2l^2r^2+r^4-8l^2rR+8r^3R-12l^2R^2+28r^2R^2+48rR^3+27R^4\right)^2\right)\right)\right\}$$

$$\{X72,\ \text{ISOGONAL CONJUGATE OF } X(28),\ X95,\ \text{CEVAPOINT OF CENTROID AND CIRCUMCENTER},$$
$$-\Big(\Big(r^2\big(-14 l^8 r - 232 l^6 r^3 + 348 l^4 r^5 + 56 l^2 r^7 + 2 r^9 + 3 l^8 R + 244 l^6 r^2 R + 1162 l^4 r^4 R + 708 l^2 r^6 R + 43 r^8 R + 64 l^6 r R^2 - 240 l^4 r^3 R^2 + 3424 l^2 r^5 R^2 + 400 r^7 R^2 - 40 l^6 R^3 - 2392 l^4 r^2 R^3 + 7688 l^2 r^4 R^3 + 2104 r^6 R^3 + 640 l^4 r R^4 + 6976 l^2 r^3 R^4 + 6848 r^5 R^4 + 176 l^4 R^5 - 736 l^2 r^2 R^5 + 14128 r^4 R^5 - 3712 l^2 r R^6 + 18048 r^3 R^6 - 256 l^2 R^7 + 13056 r^2 R^7 + 4096 r R^8\big)\Big) \Big/ \Big(R\big(l^4 + 18 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 4 l^2 R^2 + 20 r^2 R^2 + 16 r R^3\big)^2\Big)\Big)\}$$

$$\{X72,\ \text{ISOGONAL CONJUGATE OF } X(28),\ X96,$$
$$\text{ISOGONAL CONJUGATE OF } X(52),\ \frac{1}{R\left(-l^4 + 14 l^2 r^2 - r^4 + 8 l^2 r R - 8 r^3 R - 16 r^2 R^2 + 4 R^4\right)^2}$$
$$\big(2 l^{10} r - 40 l^8 r^3 + 188 l^6 r^5 - 264 l^4 r^7 + 18 l^2 r^9 - 39 l^8 r^2 R + 524 l^6 r^4 R - 1522 l^4 r^6 R + 220 l^2 r^8 R + r^{10} R - 16 l^8 r R^2 + 568 l^6 r^3 R^2 - 2888 l^4 r^5 R^2 + 904 l^2 r^7 R^2 + 24 r^9 R^2 + 12 l^8 R^3 + 16 l^6 r^2 R^3 - 1688 l^4 r^4 R^3 + 1104 l^2 r^6 R^3 + 236 r^8 R^3 - 184 l^6 r R^4 + 808 l^4 r^3 R^4 - 1864 l^2 r^5 R^4 + 1240 r^7 R^4 - 64 l^6 R^5 + 1720 l^4 r^2 R^5 - 6576 l^2 r^4 R^5 + 3800 r^6 R^5 + 848 l^4 r R^6 - 7104 l^2 r^3 R^6 + 6960 r^5 R^6 + 128 l^4 R^7 - 3840 l^2 r^2 R^7 + 7552 r^4 R^7 - 1088 l^2 r R^8 + 4768 r^3 R^8 - 128 l^2 R^9 + 1808 r^2 R^9 + 448 r R^{10} + 64 R^{11}\big)\}$$

$$\{X72,\ \text{ISOGONAL CONJUGATE OF } X(28),\ X97,\ \text{ISOGONAL CONJUGATE OF } X(53),$$
$$-\Big(\Big(-l^{10} r + 13 l^8 r^3 - 50 l^6 r^5 + 50 l^4 r^7 - 13 l^2 r^9 + r^{11} - l^{10} R + 28 l^8 r^2 R - 194 l^6 r^4 R + 408 l^4 r^6 R - 181 l^2 r^8 R + 20 r^{10} R + 41 l^8 r R^2 - 458 l^6 r^3 R^2 + 1428 l^4 r^5 R^2 - 1094 l^2 r^7 R^2 + 179 r^9 R^2 + 12 l^8 R^3 - 526 l^6 r^2 R^3 + 2922 l^4 r^4 R^3 - 3786 l^2 r^6 R^3 + 946 r^8 R^3 - 358 l^6 r R^4 + 3824 l^4 r^3 R^4 - 8310 l^2 r^5 R^4 + 3276 r^7 R^4 - 52 l^6 R^5 + 2975 l^4 r^2 R^5 - 12018 l^2 r^4 R^5 + 7783 r^6 R^5 + 1248 l^4 r R^6 - 11368 l^2 r^3 R^6 + 12872 r^5 R^6 + 96 l^4 R^7 - 6584 l^2 r^2 R^7 + 14664 r^4 R^7 - 1888 l^2 r R^8 + 11040 r^3 R^8 - 64 l^2 R^9 + 4976 r^2 R^9 + 1024 r R^{10}\Big) \Big/ \Big(R\big(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 7 l^2 R^2 + 23 r^2 R^2 + 28 r R^3 + 12 R^4\big)^2\Big)\Big)\}$$

$$\{X72,\ \text{ISOGONAL CONJUGATE OF } X(28),\ X98,\ \text{TarryPoint},$$
$$\big(2 l^6 r - 12 l^4 r^3 + 18 l^2 r^5 - 23 l^4 r^2 R + 90 l^2 r^4 R + r^6 R - 12 l^4 r R^2 + 128 l^2 r^3 R^2 + 12 r^5 R^2 + 4 l^4 R^3 + 24 l^2 r^2 R^3 + 52 r^4 R^3 - 32 l^2 r R^4 + 96 r^3 R^4 + 64 r^2 R^5\big) \Big/ \big(R\big(l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\big)\big)\}$$

$$\{X72,\ \text{ISOGONAL CONJUGATE OF } X(28),\ X99,\ \text{STEINER POINT},$$
$$-\frac{r^2\left(-3 l^2 + r^2 + 8 r R + 16 R^2\right)\left(-6 l^2 r + 2 r^3 - l^2 R + 11 r^2 R + 16 r R^2\right)}{R\left(l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\right)}\}$$

$$\{X72,\ \text{ISOGONAL CONJUGATE OF } X(28),\ X100,$$
$$\text{ANTICOMPLEMENT OF FEUERBACH POINT},\ -\frac{r^2\left(-2 l^2 + 2 r^2 + 8 r R + 9 R^2\right)}{(2 r - R) R}\}$$

$$\{X73,\ \text{CROSSPOINT OF INCENTER AND CIRCUMCENTER},\ X74,$$
$$\text{ISOGONAL CONJUGATE OF EULER INFINITY POINT},\ \frac{R^2\left(3 l^2 - r^2 - 8 r R - 12 R^2\right)^2\left(l^2 - 3 r^2 - 4 r R - 4 R^2\right)}{\left(2 l^2 - 2 r^2 - 8 r R - 9 R^2\right)\left(l^2 + r^2 - 2 r R - 4 R^2\right)^2}\}$$

$$\{X73,\ \text{CROSSPOINT OF INCENTER AND CIRCUMCENTER},\ X75,$$
$$\text{ISOTOMIC CONJUGATE OF INCENTER},\ \frac{1}{\left(l^2 + r^2 + 4 r R\right)^2\left(l^2 + r^2 - 2 r R - 4 R^2\right)^2}$$
$$\big(l^{10} + 5 l^8 r^2 + 10 l^6 r^4 + 10 l^4 r^6 + 5 l^2 r^8 + r^{10} - 20 l^8 r R - 16 l^6 r^3 R + 40 l^4 r^5 R + 48 l^2 r^7 R + 12 r^9 R - 8 l^8 R^2 + 24 l^6 r^2 R^2 - 8 l^4 r^4 R^2 + 8 l^2 r^6 R^2 + 48 r^8 R^2 + 144 l^6 r R^3 - 112 l^4 r^3 R^3 - 80 l^2 r^5 R^3 + 48 r^7 R^3 + 16 l^6 R^4 - 160 l^4 r^2 R^4 + 272 l^2 r^4 R^4 - 128 r^6 R^4 - 256 l^4 r R^5 + 512 l^2 r^3 R^5 - 256 r^5 R^5\big)\}$$

$$\{X73,\ \text{CROSSPOINT OF INCENTER AND CIRCUMCENTER},\ X76,\ \text{3rd BROCARD POINT},$$
$$\big(l^{14}+7l^{12}r^2+21l^{10}r^4+35l^8r^6+35l^6r^8+21l^4r^{10}+7l^2r^{12}+r^{14}-28l^{12}rR-120l^{10}r^3R-$$
$$180l^8r^5R-80l^6r^7R+60l^4r^9R+72l^2r^{11}R+20r^{13}R-8l^{12}R^2+184l^{10}r^2R^2+592l^8r^4R^2+$$
$$496l^6r^6R^2+152l^4r^8R^2+216l^2r^{10}R^2+160r^{12}R^2+208l^{10}rR^3-16l^8r^3R^3-672l^6r^5R^3-$$
$$864l^4r^7R^3+208l^2r^9R^3+624r^{11}R^3+16l^{10}R^4-1408l^8r^2R^4-3104l^6r^4R^4-896l^4r^6R^4+$$
$$784l^2r^8R^4+1024r^{10}R^4-384l^8rR^5+2688l^6r^3R^5+6528l^4r^5R^5+1920l^2r^7R^5-512r^9R^5+$$
$$2304l^6r^2R^6+3584l^4r^4R^6-3840l^2r^6R^6-4096r^8R^6-4096l^4r^3R^7-8192l^2r^5R^7-4096r^7R^7\big)\Big/$$
$$\big((l^2+r^2-2rR-4R^2)^2\,(l^4+2l^2r^2+r^4-8l^2rR+8r^3R+16r^2R^2)^2\big)\}$$

$$\{X73,\ \text{CROSSPOINT OF INCENTER AND CIRCUMCENTER},\ X77,\ \text{ISOGONAL CONJUGATE OF } X(33),$$
$$\big(r^2R^2\,(l^6+7l^4r^2-9l^2r^4+r^6-20l^4rR-24l^2r^3R+12r^5R-8l^4R^2+8l^2r^2R^2+48r^4R^2+144l^2rR^3+$$
$$48r^3R^3+16l^2R^4-128r^2R^4-256rR^5)\big)\Big/\big((l^2+r^2-2rR-4R^2)^2\,(l^2-rR-4R^2)^2\big)\}$$

$$\{X73,\ \text{CROSSPOINT OF INCENTER AND CIRCUMCENTER},\ X78,\ \text{ISOGONAL CONJUGATE OF } X(34),$$
$$\big(R^2\,(l^6+7l^4r^2-9l^2r^4+r^6-20l^4rR-24l^2r^3R+12r^5R-8l^4R^2+8l^2r^2R^2+48r^4R^2+$$
$$144l^2rR^3+48r^3R^3+16l^2R^4-128r^2R^4-256rR^5)\big)\Big/\big((r-R)^2\,(l^2+r^2-2rR-4R^2)^2\big)\}$$

$$\{X73,\ \text{CROSSPOINT OF INCENTER AND CIRCUMCENTER},\ X79,\ \text{ISOGONAL CONJUGATE OF } X(35),$$
$$\big(4r^2\,(-2l^6-2l^4r^2+2l^2r^4+2r^6+10l^4rR+20l^2r^3R+10r^5R+16l^4R^2+20l^2r^2R^2+4r^4R^2-$$
$$36l^2rR^3-44r^3R^3-41l^2R^4-53r^2R^4+20rR^5+36R^6)\big)\Big/\big((2r+3R)^2\,(l^2+r^2-2rR-4R^2)^2\big)\}$$

$$\{X73,\ \text{CROSSPOINT OF INCENTER AND CIRCUMCENTER},\ X80,\ \text{REFLECTION OF INCENTER IN FEUERBACH POINT},$$
$$\big(4r^2\,(2l^4r+4l^2r^3+2r^5-2l^4R-4l^2r^2R-2r^4R-10l^2rR^2-$$
$$10r^3R^2+17l^2R^3+13r^2R^3+4rR^4-36R^5)\big)\Big/\big((2r-R)\,(l^2+r^2-2rR-4R^2)^2\big)\}$$

$$\{X73,\ \text{CROSSPOINT OF INCENTER AND CIRCUMCENTER},\ X81,\ \text{CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},$$
$$-\big((r^2R\,(2l^6r+6l^4r^3+6l^2r^5+2r^7+3l^6R-15l^4r^2R+41l^2r^4R-5r^6R-28l^4rR^2+16l^2r^3R^2-$$
$$84r^5R^2-8l^4R^3-56l^2r^2R^3-160r^4R^3-48l^2rR^4+112r^3R^4-16l^2R^5+448r^2R^5+256rR^6)\big)\Big/$$
$$\big((l^2-r^2-rR)^2\,(l^2+r^2-2rR-4R^2)^2\big)\big)\}$$

$$\{X73,\ \text{CROSSPOINT OF INCENTER AND CIRCUMCENTER},\ X82,\ \text{ISOGONAL CONJUGATE OF } X(38),$$
$$-\big((r^2R\,(4l^{10}r+12l^8r^3+8l^6r^5-8l^4r^7-12l^2r^9-4r^{11}+3l^{10}R-89l^8r^2R+94l^6r^4R-434l^4r^6R+$$
$$271l^2r^8R-133r^{10}R-92l^8rR^2+800l^6r^3R^2-2424l^4r^5R^2+3392l^2r^7R^2-1484r^9R^2-$$
$$8l^8R^3+888l^6r^2R^3-5384l^4r^4R^3+13\,288l^2r^6R^3-8080r^8R^3+112l^6rR^4-3728l^4r^3R^4+$$
$$22\,096l^2r^5R^4-23\,856r^7R^4-16l^6R^5+160l^4r^2R^5+11\,248l^2r^4R^5-36\,992r^6R^5+$$
$$512l^4rR^6-5888l^2r^3R^6-21\,248r^5R^6-5120l^2r^2R^7+12\,288r^4R^7+16\,384r^3R^8)\big)\Big/$$
$$\big((l^2+r^2-2rR-4R^2)^2\,(l^4-4l^2r^2+3r^4-9l^2rR+19r^3R+28r^2R^2)^2\big)\big)\}$$

$$\{X73,\ \text{CROSSPOINT OF INCENTER AND CIRCUMCENTER},\ X83,\ \text{CEVAPOINT OF CENTROID AND SYMMEDIAN POINT},$$
$$\big(l^{14}-l^{12}r^2-11l^{10}r^4-5l^8r^6+35l^6r^8+61l^4r^{10}+39l^2r^{12}+9r^{14}-44l^{12}rR+8l^{10}r^3R+124l^8r^5R+$$
$$48l^6r^7R+140l^4r^9R+328l^2r^{11}R+164r^{13}R-8l^{12}R^2+632l^{10}r^2R^2+304l^8r^4R^2-$$
$$1360l^6r^6R^2+1304l^4r^8R^2-424l^2r^{10}R^2+1344r^{12}R^2+336l^{10}rR^3-3792l^8r^3R^3-5024l^6r^5R^3+$$
$$14\,112l^4r^7R^3-14\,512l^2r^9R^3+7344r^{11}R^3+16l^{10}R^4-4864l^8r^2R^4+9824l^6r^4R^4+$$
$$37\,376l^4r^6R^4-67\,440l^2r^8R^4+31\,744r^{10}R^4-640l^8rR^5+32\,640l^6r^3R^5-11\,648l^4r^5R^5-$$
$$123\,264l^2r^7R^5+98\,816r^9R^5+9472l^6r^2R^6-115\,200l^4r^4R^6-11\,008l^2r^6R^6+167\,936r^8R^6-$$
$$65\,536l^4r^3R^7+241\,664l^2r^5R^7+45\,056r^7R^7+212\,992l^2r^4R^8-262\,144r^6R^8-262\,144r^5R^9\big)\Big/$$
$$\big((l^2+r^2-2rR-4R^2)^2\,(5l^4-6l^2r^2+5r^4-40l^2rR+40r^3R+80r^2R^2)^2\big)\}$$

$$\{X73,\ \text{CROSSPOINT OF INCENTER AND CIRCUMCENTER},$$
$$X84,\ \text{ISOGONAL CONJUGATE OF } X(40),\ \frac{1}{r^2\,(l^2+r^2-2rR-4R^2)^2}$$
$$4R\,(l^6r+2l^4r^3+l^2r^5-l^6R-10l^4r^2R-10l^2r^4R+3r^6R-4l^4rR^2+20l^2r^3R^2+$$
$$16r^5R^2+12l^4R^3+60l^2r^2R^3-16l^2rR^4-96r^3R^4-48l^2R^5-80r^2R^5+64rR^6+64R^7)\}$$

$$\left\{X73,\ \text{CROSSPOINT OF INCENTER AND CIRCUMCENTER},\ X85,\ \text{ISOTOMIC CONJUGATE OF } X(9),\ \frac{1}{\left(l^2+r^2-2\,r\,R-4\,R^2\right)^2\left(l^2+r^2+8\,r\,R+16\,R^2\right)^2}\right.$$
$$\left(l^{10}+5\,l^8\,r^2+10\,l^6\,r^4+10\,l^4\,r^6+5\,l^2\,r^8+r^{10}-28\,l^8\,r\,R-32\,l^6\,r^3\,R+40\,l^4\,r^5\,R+64\,l^2\,r^7\,R+20\,r^9\,R-8\,l^8\,R^2+72\,l^6\,r^2\,R^2+200\,l^4\,r^4\,R^2+280\,l^2\,r^6\,R^2+160\,r^8\,R^2+208\,l^6\,r\,R^3+16\,l^4\,r^3\,R^3+560\,l^2\,r^5\,R^3+624\,r^7\,R^3+16\,l^6\,R^4-928\,l^4\,r^2\,R^4+1168\,l^2\,r^4\,R^4+1024\,r^6\,R^4-384\,l^4\,r\,R^5+2944\,l^2\,r^3\,R^5-512\,r^5\,R^5+2304\,l^2\,r^2\,R^6-4096\,r^4\,R^6-4096\,r^3\,R^7\right)\Big\}$$

$$\left\{X73,\ \text{CROSSPOINT OF INCENTER AND CIRCUMCENTER},\ X86,\ \text{CEVAPOINT OF INCENTER AND CENTROID},\ \frac{1}{\left(5\,l^2+r^2+4\,r\,R\right)^2\left(l^2+r^2-2\,r\,R-4\,R^2\right)^2}\right.$$
$$\left(l^{10}+5\,l^8\,r^2+10\,l^6\,r^4+10\,l^4\,r^6+5\,l^2\,r^8+r^{10}-20\,l^8\,r\,R+16\,l^6\,r^3\,R+104\,l^4\,r^5\,R+80\,l^2\,r^7\,R+12\,r^9\,R-8\,l^8\,R^2-104\,l^6\,r^2\,R^2+312\,l^4\,r^4\,R^2+200\,l^2\,r^6\,R^2+48\,r^8\,R^2+144\,l^6\,r\,R^3+208\,l^4\,r^3\,R^3+112\,l^2\,r^5\,R^3+48\,r^7\,R^3+16\,l^6\,R^4+352\,l^4\,r^2\,R^4+16\,l^2\,r^4\,R^4-128\,r^6\,R^4-256\,l^4\,r\,R^5+512\,l^2\,r^3\,R^5-256\,r^5\,R^5\right)\Big\}$$

$$\left\{X73,\ \text{CROSSPOINT OF INCENTER AND CIRCUMCENTER},\ X87,\ X(2)\text{-CROSS CONJUGATE OF } X(1),\right.$$
$$\left(4\,r^2\,R^2\left(3\,l^{10}+3\,l^8\,r^2-18\,l^6\,r^4-42\,l^4\,r^6-33\,l^2\,r^8-9\,r^{10}-60\,l^8\,r\,R+16\,l^6\,r^3\,R+152\,l^4\,r^5\,R+16\,l^2\,r^7\,R-60\,r^9\,R-28\,l^8\,R^2+96\,l^6\,r^2\,R^2+1672\,l^4\,r^4\,R^2-2176\,l^2\,r^6\,R^2+372\,r^8\,R^2+640\,l^6\,r\,R^3+576\,l^4\,r^3\,R^3-7936\,l^2\,r^5\,R^3+4416\,r^7\,R^3+64\,l^6\,R^4-3328\,l^4\,r^2\,R^4-5312\,l^2\,r^4\,R^4+13\,440\,r^6\,R^4-1536\,l^4\,r\,R^5+7680\,l^2\,r^3\,R^5+11\,264\,r^5\,R^5+9216\,l^2\,r^2\,R^6-11\,264\,r^4\,R^6-16\,384\,r^3\,R^7\right)\Big)\Big/\left(\left(l^2+r^2-2\,r\,R-4\,R^2\right)^2\left(l^4+2\,l^2\,r^2+r^4-20\,l^2\,r\,R+12\,r^3\,R+32\,r^2\,R^2\right)^2\right)\Big\}$$

$$\left\{X73,\ \text{CROSSPOINT OF INCENTER AND CIRCUMCENTER},\ X88,\ \text{ISOGONAL CONJUGATE OF } X(44),\right.$$
$$-\left(\left(r^2\,R\left(6\,l^6\,r+66\,l^4\,r^3+114\,l^2\,r^5+54\,r^7-5\,l^6\,R-87\,l^4\,r^2\,R-207\,l^2\,r^4\,R-189\,r^6\,R-28\,l^4\,r\,R^2-1344\,l^2\,r^3\,R^2-612\,r^5\,R^2+56\,l^4\,R^3+2088\,l^2\,r^2\,R^3+1728\,r^4\,R^3-624\,l^2\,r\,R^4+1008\,r^3\,R^4-144\,l^2\,R^5-5184\,r^2\,R^5+2304\,r\,R^6\right)\right)\Big/\left(\left(l^2+3\,r^2-15\,r\,R\right)^2\left(l^2+r^2-2\,r\,R-4\,R^2\right)^2\right)\right)\Big\}$$

$$\left\{X73,\ \text{CROSSPOINT OF INCENTER AND CIRCUMCENTER},\ X89,\ \text{ISOGONAL CONJUGATE OF } X(45),\right.$$
$$-\left(\left(r^2\,R\left(12\,l^6\,r+132\,l^4\,r^3+228\,l^2\,r^5+108\,r^7+7\,l^6\,R+81\,l^4\,r^2\,R+909\,l^2\,r^4\,R-189\,r^6\,R+20\,l^4\,r\,R^2-1896\,l^2\,r^3\,R^2-2556\,r^5\,R^2+8\,l^4\,R^3-2808\,l^2\,r^2\,R^3-1728\,r^4\,R^3-1104\,l^2\,r\,R^4+7920\,r^3\,R^4-144\,l^2\,R^5+8640\,r^2\,R^5+2304\,r\,R^6\right)\right)\Big/\left(\left(2\,l^2-6\,r^2+3\,r\,R\right)^2\left(l^2+r^2-2\,r\,R-4\,R^2\right)^2\right)\right)\Big\}$$

$$\left\{X73,\ \text{CROSSPOINT OF INCENTER AND CIRCUMCENTER},\ X90,\ X(3)\text{-CROSS CONJUGATE OF } X(1),\right.$$
$$\left(4\,r^2\,R\left(l^6\,r+2\,l^4\,r^3+l^2\,r^5-8\,l^4\,r^2\,R-9\,l^2\,r^4\,R+3\,r^6\,R-17\,l^4\,r\,R^2-2\,l^2\,r^3\,R^2+23\,r^5\,R^2+2\,l^4\,R^3+82\,l^2\,r^2\,R^3+44\,r^4\,R^3+84\,l^2\,r\,R^4-48\,r^3\,R^4-17\,l^2\,R^5-205\,r^2\,R^5-124\,r\,R^6+36\,R^7\right)\right)\Big/\left(\left(l^2+r^2-2\,r\,R-4\,R^2\right)^2\left(r^2+2\,r\,R-R^2\right)^2\right)\Big\}$$

$$\left\{X73,\ \text{CROSSPOINT OF INCENTER AND CIRCUMCENTER},\ X91,\ \text{ISOGONAL CONJUGATE OF } X(47),\ \frac{1}{\left(l^2+r^2-2\,r\,R-4\,R^2\right)^2\left(l^2\,r+r^3-l^2\,R+3\,r^2\,R+2\,r\,R^2+2\,R^3\right)^2}\right.$$
$$r^2\left(l^{10}+5\,l^8\,r^2+10\,l^6\,r^4+10\,l^4\,r^6+5\,l^2\,r^8+r^{10}-24\,l^8\,r\,R-32\,l^6\,r^3\,R+16\,l^4\,r^5\,R+32\,l^2\,r^7\,R+8\,r^9\,R-12\,l^8\,R^2+56\,l^6\,r^2\,R^2+48\,l^4\,r^4\,R^2+8\,l^2\,r^6\,R^2+28\,r^8\,R^2+288\,l^6\,r\,R^3-48\,l^4\,r^3\,R^3-128\,l^2\,r^5\,R^3+80\,r^7\,R^3+48\,l^6\,R^4-880\,l^4\,r^2\,R^4+80\,l^2\,r^4\,R^4+176\,r^6\,R^4-1200\,l^4\,r\,R^5+1376\,l^2\,r^3\,R^5+16\,r^5\,R^5-64\,l^4\,R^6+2912\,l^2\,r^2\,R^6-992\,r^4\,R^6+2048\,l^2\,r\,R^7-2496\,r^3\,R^7-16\,l^2\,R^8-2768\,r^2\,R^8-1216\,r\,R^9+64\,R^{10}\right)\Big\}$$

$$\left\{X73,\ \text{CROSSPOINT OF INCENTER AND CIRCUMCENTER},\ X92,\ \text{CEVAPOINT OF INCENTER AND CLAWSON POINT},\ \frac{1}{\left(l^2+r^2-4\,R^2\right)^2\left(l^2+r^2-2\,r\,R-4\,R^2\right)^2}\right.$$
$$\left(l^{10}+5\,l^8\,r^2+10\,l^6\,r^4+10\,l^4\,r^6+5\,l^2\,r^8+r^{10}-28\,l^8\,r\,R-48\,l^6\,r^3\,R-8\,l^4\,r^5\,R+16\,l^2\,r^7\,R+4\,r^9\,R-16\,l^8\,R^2+104\,l^6\,r^2\,R^2+120\,l^4\,r^4\,R^2-8\,l^2\,r^6\,R^2-8\,r^8\,R^2+400\,l^6\,r\,R^3+48\,l^4\,r^3\,R^3-272\,l^2\,r^5\,R^3-48\,r^7\,R^3+96\,l^6\,R^4-1520\,l^4\,r^2\,R^4-576\,l^2\,r^4\,R^4+80\,r^6\,R^4-2112\,l^4\,r\,R^5+1536\,l^2\,r^3\,R^5+576\,r^5\,R^5-256\,l^4\,R^6+5888\,l^2\,r^2\,R^6+4864\,l^2\,r\,R^7-3840\,r^3\,R^7+256\,l^2\,R^8-7168\,r^2\,R^8-4096\,r\,R^9\right)\Big\}$$

{X73, CROSSPOINT OF INCENTER AND CIRCUMCENTER, X93, ISOGONAL CONJUGATE OF X(49),

$$\left(l^{14}+7 l^{12} r^2+21 l^{10} r^4+35 l^8 r^6+35 l^6 r^8+21 l^4 r^{10}+7 l^2 r^{12}+r^{14}-28 l^{12} r R-120 l^{10} r^3 R-180 l^8 r^5 R-80 l^6 r^7 R+60 l^4 r^9 R+72 l^2 r^{11} R+20 r^{13} R-18 l^{12} R^2+104 l^{10} r^2 R^2+390 l^8 r^4 R^2+288 l^6 r^6 R^2+90 l^4 r^8 R^2+248 l^2 r^{10} R^2+178 r^{12} R^2+464 l^{10} r R^3+960 l^8 r^3 R^3+224 l^6 r^5 R^3-704 l^4 r^7 R^3+464 l^2 r^9 R^3+896 r^{11} R^3+128 l^{10} R^4-2164 l^8 r^2 R^4-5024 l^6 r^4 R^4-2472 l^4 r^6 R^4+1856 l^2 r^8 R^4+2620 r^{10} R^4-3048 l^8 r R^5-2128 l^6 r^3 R^5+5824 l^4 r^5 R^5+6608 l^2 r^7 R^5+3752 r^9 R^5-450 l^8 R^6+12044 l^6 r^2 R^6+20688 l^4 r^4 R^6+4596 l^2 r^6 R^6-526 r^8 R^6+10032 l^6 r R^7+1024 l^4 r^3 R^7-21264 l^2 r^5 R^7-9184 r^7 R^7+791 l^6 R^8-28751 l^4 r^2 R^8-37555 l^2 r^4 R^8-5901 r^6 R^8-17180 l^4 r R^9-1112 l^2 r^3 R^9+14788 r^5 R^9-596 l^4 R^{10}+29752 l^2 r^2 R^{10}+21708 r^4 R^{10}+14304 l^2 r R^{11}+1376 r^3 R^{11}+80 l^2 R^{12}-10992 r^2 R^{12}-4544 r R^{13}+64 R^{14}\right) \Big/ \left(\left(l^2+r^2-2 r R-4 R^2\right)^2 \left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-8 l^2 R^2+24 r^2 R^2+32 r R^3+13 R^4\right)^2\right)\}$$

{X73, CROSSPOINT OF INCENTER AND CIRCUMCENTER, X94, ISOGONAL CONJUGATE OF X(50),

$$\left(l^{14}+7 l^{12} r^2+21 l^{10} r^4+35 l^8 r^6+35 l^6 r^8+21 l^4 r^{10}+7 l^2 r^{12}+r^{14}-28 l^{12} r R-120 l^{10} r^3 R-180 l^8 r^5 R-80 l^6 r^7 R+60 l^4 r^9 R+72 l^2 r^{11} R+20 r^{13} R-20 l^{12} R^2+100 l^{10} r^2 R^2+400 l^8 r^4 R^2+328 l^6 r^6 R^2+140 l^4 r^8 R^2+276 l^2 r^{10} R^2+184 r^{12} R^2+520 l^{10} r R^3+1016 l^8 r^3 R^3+144 l^6 r^5 R^3-720 l^4 r^7 R^3+616 l^2 r^9 R^3+984 r^{11} R^3+166 l^{10} R^4-2566 l^8 r^2 R^4-5540 l^6 r^4 R^4-2636 l^4 r^6 R^4+2302 l^2 r^8 R^4+3154 r^{10} R^4-3984 l^8 r R^5-1488 l^6 r^3 R^5+8112 l^4 r^5 R^5+7056 l^2 r^7 R^5+5536 r^9 R^5-732 l^8 R^6+17724 l^6 r^2 R^6+25436 l^4 r^4 R^6-876 l^2 r^6 R^6+3920 r^8 R^6+16104 l^6 r R^7-7096 l^4 r^3 R^7-44072 l^2 r^5 R^7+3704 r^7 R^7+1809 l^6 R^8-56265 l^4 r^2 R^8-61269 l^2 r^4 R^8+30405 r^6 R^8-36180 l^4 r R^9+20760 l^2 r^3 R^9+77676 r^5 R^9-2376 l^4 R^{10}+85464 l^2 r^2 R^{10}+68256 r^4 R^{10}+42768 l^2 r R^{11}-11376 r^3 R^{11}+1296 l^2 R^{12}-50112 r^2 R^{12}-20736 r R^{13}\right) \Big/ \left(\left(l^2+r^2-2 r R-4 R^2\right)^2 \left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-12 l^2 R^2+28 r^2 R^2+48 r R^3+27 R^4\right)^2\right)\}$$

{X73, CROSSPOINT OF INCENTER AND CIRCUMCENTER, X95, CEVAPOINT OF CENTROID AND CIRCUMCENTER,

$$\left(l^{14}+23 l^{12} r^2+101 l^{10} r^4+195 l^8 r^6+195 l^6 r^8+101 l^4 r^{10}+23 l^2 r^{12}+r^{14}-28 l^{12} r R-440 l^{10} r^3 R-948 l^8 r^5 R-464 l^6 r^7 R+316 l^4 r^9 R+264 l^2 r^{11} R+20 r^{13} R-16 l^{12} R^2-72 l^{10} r^2 R^2+1256 l^8 r^4 R^2-1680 l^6 r^6 R^2+2048 l^4 r^8 R^2+1112 l^2 r^{10} R^2+168 r^{12} R^2+400 l^{10} r R^3+4080 l^8 r^3 R^3+3936 l^6 r^5 R^3+6176 l^4 r^7 R^3+2576 l^2 r^9 R^3+752 r^{11} R^3+96 l^{10} R^4-1136 l^8 r^2 R^4-13632 l^6 r^4 R^4-672 l^4 r^6 R^4+6368 l^2 r^8 R^4+1808 r^{10} R^4-2112 l^8 r R^5-12416 l^6 r^3 R^5-2048 l^4 r^5 R^5+17024 l^2 r^7 R^5+1600 r^9 R^5-256 l^8 R^6+6656 l^6 r^2 R^6+33280 l^4 r^4 R^6+22528 l^2 r^6 R^6-2816 r^8 R^6+4864 l^6 r R^7+14592 l^4 r^3 R^7+256 l^2 r^5 R^7-9472 r^7 R^7+256 l^6 R^8-9728 l^4 r^2 R^8-20224 l^2 r^4 R^8-10240 r^6 R^8-4096 l^4 r R^9-8192 l^2 r^3 R^9-4096 r^5 R^9\right) \Big/ \left(\left(l^2+r^2-2 r R-4 R^2\right)^2 \left(l^4+18 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-4 l^2 R^2+20 r^2 R^2+16 r R^3\right)^2\right)\}$$

{X73, CROSSPOINT OF INCENTER AND CIRCUMCENTER, X96, ISOGONAL CONJUGATE OF X(52),

$$-\left(\left(l^{14}-9 l^{12} r^2-59 l^{10} r^4-125 l^8 r^6-125 l^6 r^8-59 l^4 r^{10}-9 l^2 r^{12}+r^{14}-28 l^{12} r R+200 l^{10} r^3 R+588 l^8 r^5 R+304 l^6 r^7 R-196 l^4 r^9 R-120 l^2 r^{11} R+20 r^{13} R-20 l^{12} R^2+496 l^{10} r^2 R^2-932 l^8 r^4 R^2+1088 l^6 r^6 R^2-2012 l^4 r^8 R^2-304 l^2 r^{10} R^2+148 r^{12} R^2+464 l^{10} r R^3-4976 l^8 r^3 R^3+2656 l^6 r^5 R^3-10272 l^4 r^7 R^3+2512 l^2 r^9 R^3+400 r^{11} R^3+168 l^{10} R^4-5672 l^8 r^2 R^4+21360 l^6 r^4 R^4-22768 l^4 r^6 R^4+17896 l^2 r^8 R^4-744 r^{10} R^4-3136 l^8 r R^5+37632 l^6 r^3 R^5-51072 l^4 r^5 R^5+48384 l^2 r^7 R^5-8256 r^9 R^5-768 l^8 R^6+28128 l^6 r^2 R^6-111840 l^4 r^4 R^6+86176 l^2 r^6 R^6-25504 r^8 R^6+11072 l^6 r R^7-124992 l^4 r^3 R^7+153280 l^2 r^5 R^7-47552 r^7 R^7+2064 l^6 R^8-70416 l^4 r^2 R^8+226096 l^2 r^4 R^8-79024 r^6 R^8-21568 l^4 r R^9+192128 l^2 r^3 R^9-131392 r^5 R^9-3264 l^4 R^{10}+87680 l^2 r^2 R^{10}-159424 r^4 R^{10}+22016 l^2 r R^{11}-112128 r^3 R^{11}+2816 l^2 R^{12}-43264 r^2 R^{12}-9216 r R^{13}-1024 R^{14}\right) \Big/ \left(\left(l^2+r^2-2 r R-4 R^2\right)^2 \left(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2-4 R^4\right)^2\right)\right)\}$$

{X73, CROSSPOINT OF INCENTER AND CIRCUMCENTER, X97, ISOGONAL CONJUGATE OF X(53),

$$\left(R^2 \left(6 l^{10} r^2+22 l^8 r^4-404 l^6 r^6+444 l^4 r^8-146 l^2 r^{10}+14 r^{12}+4 l^{10} r R-116 l^8 r^3 R-440 l^6 r^5 R+2808 l^4 r^7 R-1740 l^2 r^9 R+252 r^{11} R+l^{10} R^2-171 l^8 r^2 R^2+582 l^6 r^4 R^2+5614 l^4 r^6 R^2-8295 l^2 r^8 R^2+1949 r^{10} R^2-92 l^8 r R^3+2112 l^6 r^3 R^3+1368 l^4 r^5 R^3-19328 l^2 r^7 R^3+8388 r^9 R^3-16 l^8 R^4+1896 l^6 r^2 R^4-9352 l^4 r^4 R^4-18856 l^2 r^6 R^4+21464 r^8 R^4+784 l^6 r R^5-14864 l^4 r^3 R^5+8816 l^2 r^5 R^5+30864 r^7 R^5+96 l^6 R^6-9968 l^4 r^2 R^6+42752 l^2 r^4 R^6+14352 r^6 R^6-3136 l^4 r R^7+46848 l^2 r^3 R^7-30144 r^5 R^7-256 l^4 R^8+24832 l^2 r^2 R^8-64000 r^4 R^8+5888 l^2 r R^9-55040 r^3 R^9+256 l^2 R^{10}-23552 r^2 R^{10}-4096 r R^{11}\right)\right) \Big/ \left(\left(l^2+r^2-2 r R-4 R^2\right)^2 \left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-7 l^2 R^2+23 r^2 R^2+28 r R^3+12 R^4\right)^2\right)\}$$

{X73, CROSSPOINT OF INCENTER AND CIRCUMCENTER, X98, TarryPoint,

$$-\left(\left(l^{10}+5 l^8 r^2+10 l^6 r^4+10 l^4 r^6+5 l^2 r^8+r^{10}-20 l^8 r R-48 l^6 r^3 R-24 l^4 r^5 R+16 l^2 r^7 R+12 r^9 R-12 l^8 R^2+96 l^6 r^2 R^2-56 l^4 r^4 R^2+128 l^2 r^6 R^2+36 r^8 R^2+192 l^6 r R^3-160 l^4 r^3 R^3+576 l^2 r^5 R^3-96 r^7 R^3+48 l^6 R^4-880 l^4 r^2 R^4+1040 l^2 r^4 R^4-784 r^6 R^4-576 l^4 r R^5+1536 l^2 r^3 R^5-1728 r^5 R^5-64 l^4 R^6+1920 l^2 r^2 R^6-1856 r^4 R^6+512 l^2 r R^7-1536 r^3 R^7-1024 r^2 R^8\right)\Big/\left(\left(l^2+r^2-2 r R-4 R^2\right)^2\left(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)\right)\right)\}$$

{X73, CROSSPOINT OF INCENTER AND CIRCUMCENTER, X99, STEINER POINT,

$$\left(l^{10}+5 l^8 r^2+10 l^6 r^4+10 l^4 r^6+5 l^2 r^8+r^{10}-20 l^8 r R-48 l^6 r^3 R-24 l^4 r^5 R+16 l^2 r^7 R+12 r^9 R-8 l^8 R^2+24 l^6 r^2 R^2+184 l^4 r^4 R^2-56 l^2 r^6 R^2+48 r^8 R^2+144 l^6 r R^3+272 l^4 r^3 R^3-336 l^2 r^5 R^3+48 r^7 R^3+16 l^6 R^4-160 l^4 r^2 R^4-880 l^2 r^4 R^4-128 r^6 R^4-256 l^4 r R^5-512 l^2 r^3 R^5-256 r^5 R^5\right)\Big/\left(\left(l^2+r^2-2 r R-4 R^2\right)^2\left(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)\right)\}$$

{X73, CROSSPOINT OF INCENTER AND CIRCUMCENTER, X100, ANTICOMPLEMENT OF FEUERBACH POINT,

$$-\left(\left(R\left(l^6+3 l^4 r^2+3 l^2 r^4+r^6-20 l^4 r R-12 r^5 R-8 l^4 R^2+40 l^2 r^2 R^2-32 r^4 R^2+144 l^2 r R^3-48 r^3 R^3+16 l^2 R^4-192 r^2 R^4-256 r R^5\right)\right)\Big/\left((2 r-R)\left(l^2+r^2-2 r R-4 R^2\right)^2\right)\right)\}$$

{X74, ISOGONAL CONJUGATE OF EULER INFINITY POINT, X75, ISOTOMIC CONJUGATE OF INCENTER,

$$-\left(\left(l^8+4 l^6 r^2+6 l^4 r^4+4 l^2 r^6+r^8+8 l^6 r R-64 l^4 r^3 R+72 l^2 r^5 R+16 r^7 R-12 l^6 R^2-220 l^4 r^2 R^2+348 l^2 r^4 R^2+108 r^6 R^2-96 l^4 r R^3+784 l^2 r^3 R^3+400 r^5 R^3+36 l^4 R^4+792 l^2 r^2 R^4+868 r^4 R^4+288 l^2 r R^5+1056 r^3 R^5+576 r^2 R^6\right)\Big/\left(\left(l^2+r^2+4 r R\right)^2\left(2 l^2-2 r^2-8 r R-9 R^2\right)\right)\right)\}$$

{X74, ISOGONAL CONJUGATE OF EULER INFINITY POINT, X76, 3rd BROCARD POINT,

$$-\left(\left(l^{12}+6 l^{10} r^2+15 l^8 r^4+20 l^6 r^6+15 l^4 r^8+6 l^2 r^{10}+r^{12}-24 l^{10} r R-72 l^8 r^3 R-48 l^6 r^5 R+48 l^4 r^7 R+72 l^2 r^9 R+24 r^{11} R-12 l^{10} R^2+204 l^8 r^2 R^2-344 l^6 r^4 R^2+440 l^4 r^6 R^2+228 l^2 r^8 R^2+252 r^{10} R^2+240 l^8 r R^3-1088 l^6 r^3 R^3+2720 l^4 r^5 R^3-576 l^2 r^7 R^3+1520 r^9 R^3+36 l^8 R^4-1920 l^6 r^2 R^4+7224 l^4 r^4 R^4-5760 l^2 r^6 R^4+5796 r^8 R^4-576 l^6 r R^5+8256 l^4 r^3 R^5-15936 l^2 r^5 R^5+14400 r^7 R^5+3456 l^4 r^2 R^6-19968 l^2 r^4 R^6+22912 r^6 R^6-9216 l^2 r^3 R^7+21504 r^5 R^7+9216 r^4 R^8\right)\Big/\left(\left(2 l^2-2 r^2-8 r R-9 R^2\right)\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)^2\right)\right)\}$$

{X74, ISOGONAL CONJUGATE OF EULER INFINITY POINT, X77, ISOGONAL CONJUGATE OF X(33),

$$-\left(\left(R\left(3 l^6 r-4 l^4 r^3+l^2 r^5-9 l^6 R+2 l^4 r^2 R+r^6 R+42 l^4 r R^2-42 l^2 r^3 R^2+16 r^5 R^2+108 l^4 R^3-224 l^2 r^2 R^3+108 r^4 R^3-480 l^2 r R^4+400 r^3 R^4-432 l^2 R^5+868 r^2 R^5+1056 r R^6+576 R^7\right)\right)\Big/\left(\left(2 l^2-2 r^2-8 r R-9 R^2\right)\left(l^2-r R-4 R^2\right)^2\right)\right)\}$$

{X74, ISOGONAL CONJUGATE OF EULER INFINITY POINT, X78, ISOGONAL CONJUGATE OF X(34),

$$-\left(\left(R\left(3 l^4 r-4 l^2 r^3+r^5-l^4 R-23 l^2 r^2 R+14 r^4 R-26 l^2 r R^2+66 r^3 R^2+12 l^2 R^3+116 r^2 R^3+48 r R^4-36 R^5\right)\right)\Big/\left((r-R)^2\left(-2 l^2+2 r^2+8 r R+9 R^2\right)\right)\right)\}$$

{X74, ISOGONAL CONJUGATE OF EULER INFINITY POINT, X79, ISOGONAL CONJUGATE OF X(35),

$$\left(28 l^4 r^2-24 l^2 r^4+12 r^6+18 l^4 r R-172 l^2 r^3 R+130 r^5 R-384 l^2 r^2 R^2+592 r^4 R^2-288 l^2 r R^3+1416 r^3 R^3-81 l^2 R^4+1827 r^2 R^4+1188 r R^5+324 R^6\right)\Big/\left((2 r+3 R)^2\left(-2 l^2+2 r^2+8 r R+9 R^2\right)\right)\}$$

{X74, ISOGONAL CONJUGATE OF EULER INFINITY POINT,

X80, REFLECTION OF INCENTER IN FEUERBACH POINT,

$$\frac{6 l^4 r-12 l^2 r^3+14 r^5-60 l^2 r^2 R+84 r^4 R-66 l^2 r R^2+222 r^3 R^2+9 l^2 R^3+293 r^2 R^3+132 r R^4-36 R^5}{(2 r-R)\left(-2 l^2+2 r^2+8 r R+9 R^2\right)}\}$$

{X74, ISOGONAL CONJUGATE OF EULER INFINITY POINT,

X81, CEVAPOINT OF INCENTER AND SYMMEDIAN POINT,

$$-\left(\left(R\left(3 l^6 r+3 l^4 r^3-3 l^2 r^5-3 r^7-9 l^6 R+34 l^4 r^2 R-41 l^2 r^4 R-20 r^6 R+42 l^4 r R^2-140 l^2 r^3 R^2-46 r^5 R^2+36 l^4 R^3-192 l^2 r^2 R^3-32 r^4 R^3-72 l^2 r R^4+24 r^3 R^4+36 r^2 R^5\right)\right)\Big/\left(\left(l^2-r^2-r R\right)^2\left(2 l^2-2 r^2-8 r R-9 R^2\right)\right)\right)\}$$

$$\{X74,\ \text{ISOGONAL CONJUGATE OF EULER INFINITY POINT},\ X82,\ \text{ISOGONAL CONJUGATE OF } X(38),$$
$$-\left(\left(R\left(3 l^{10} r + l^8 r^3 - 10 l^6 r^5 - 6 l^4 r^7 + 7 l^2 r^9 + 5 r^{11} - 9 l^{10} R + 22 l^8 r^2 R - 214 l^6 r^4 R + 384 l^4 r^6 R - 249 l^2 r^8 R + 146 r^{10} R + 186 l^8 r R^2 - 1008 l^6 r^3 R^2 + 3060 l^4 r^5 R^2 - 3360 l^2 r^7 R^2 + 1602 r^9 R^2 + 36 l^8 R^3 - 1944 l^6 r^2 R^3 + 9096 l^4 r^4 R^3 - 15800 l^2 r^6 R^3 + 9092 r^8 R^3 - 648 l^6 r R^4 + 11976 l^4 r^3 R^4 - 36168 l^2 r^5 R^4 + 29768 r^7 R^4 + 4932 l^4 r^2 R^5 - 40968 l^2 r^4 R^5 + 57444 r^6 R^5 - 18144 l^2 r^3 R^6 + 61344 r^5 R^6 + 28224 r^4 R^7\right)\right) \Big/ \left(\left(2 l^2 - 2 r^2 - 8 r R - 9 R^2\right)\left(l^4 - 4 l^2 r^2 + 3 r^4 - 9 l^2 r R + 19 r^3 R + 28 r^2 R^2\right)^2\right)\right)\}$$

$$\{X74,\ \text{ISOGONAL CONJUGATE OF EULER INFINITY POINT},$$
$$X83,\ \text{CEVAPOINT OF CENTROID AND SYMMEDIAN POINT},$$
$$-\left(\left(13 l^{12} + 30 l^{10} r^2 + 3 l^8 r^4 - 28 l^6 r^6 + 3 l^4 r^8 + 30 l^2 r^{10} + 13 r^{12} - 312 l^{10} r R - 168 l^8 r^3 R + 144 l^6 r^5 R - 144 l^4 r^7 R + 168 l^2 r^9 R + 312 r^{11} R - 276 l^{10} R^2 + 3636 l^8 r^2 R^2 - 3368 l^6 r^4 R^2 + 3080 l^4 r^6 R^2 - 2628 l^2 r^8 R^2 + 3396 r^{10} R^2 + 5520 l^8 r R^3 - 28352 l^6 r^3 R^3 + 39008 l^4 r^5 R^3 - 33984 l^2 r^7 R^3 + 22160 r^9 R^3 + 900 l^8 R^4 - 45312 l^6 r^2 R^4 + 143736 l^4 r^4 R^4 - 164352 l^2 r^6 R^4 + 94980 r^8 R^4 - 14400 l^6 r R^5 + 200256 l^4 r^3 R^5 - 401472 l^2 r^5 R^5 + 270912 r^7 R^5 + 86400 l^4 r^2 R^6 - 486912 l^2 r^4 R^6 + 492928 r^6 R^6 - 230400 l^2 r^3 R^7 + 513024 r^5 R^7 + 230400 r^4 R^8\right) \Big/ \left(\left(2 l^2 - 2 r^2 - 8 r R - 9 R^2\right)\left(5 l^4 - 6 l^2 r^2 + 5 r^4 - 40 l^2 r R + 40 r^3 R + 80 r^2 R^2\right)^2\right)\right)\}$$

$$\{X74,\ \text{ISOGONAL CONJUGATE OF EULER INFINITY POINT},\ X84,\ \text{ISOGONAL CONJUGATE OF } X(40),$$
$$\frac{R\left(-2 l^4 r + 6 l^2 r^3 + 8 l^4 R - 11 l^2 r^2 R + 9 r^4 R - 56 l^2 r R^2 + 72 r^3 R^2 - 68 l^2 R^3 + 212 r^2 R^3 + 272 r R^4 + 144 R^5\right)}{r^2\left(-2 l^2 + 2 r^2 + 8 r R + 9 R^2\right)}$$
$$\}$$

$$\{X74,\ \text{ISOGONAL CONJUGATE OF EULER INFINITY POINT},\ X85,$$
$$\text{ISOTOMIC CONJUGATE OF } X(9),\ -\frac{1}{\left(2 l^2 - 2 r^2 - 8 r R - 9 R^2\right)\left(l^2 + r^2 + 8 r R + 16 R^2\right)^2}$$
$$\left(l^8 + 4 l^6 r^2 + 6 l^4 r^4 + 4 l^2 r^6 + r^8 + 48 l^6 r R - 40 l^4 r^3 R + 64 l^2 r^5 R + 24 r^7 R + 36 l^6 R^2 - 396 l^4 r^2 R^2 + 396 l^2 r^4 R^2 + 252 r^6 R^2 - 896 l^4 r R^3 + 1168 l^2 r^3 R^3 + 1520 r^5 R^3 - 444 l^4 R^4 + 1528 l^2 r^2 R^4 + 5796 r^4 R^4 + 192 l^2 r R^5 + 14400 r^3 R^5 - 1152 l^2 R^6 + 22912 r^2 R^6 + 21504 r R^7 + 9216 R^8\right)\}$$

$$\{X74,\ \text{ISOGONAL CONJUGATE OF EULER INFINITY POINT},\ X86,\ \text{CEVAPOINT OF INCENTER AND CENTROID},$$
$$-\left(\left(13 l^8 + 24 l^6 r^2 + 10 l^4 r^4 + r^8 - 48 l^6 r R - 16 l^4 r^3 R + 48 l^2 r^5 R + 16 r^7 R - 276 l^6 R^2 + 52 l^4 r^2 R^2 + 372 l^2 r^4 R^2 + 108 r^6 R^2 + 528 l^4 r R^3 + 1248 l^2 r^3 R^3 + 400 r^5 R^3 + 900 l^4 R^4 + 2040 l^2 r^2 R^4 + 868 r^4 R^4 + 1440 l^2 r R^5 + 1056 r^3 R^5 + 576 r^2 R^6\right) \Big/ \left(\left(5 l^2 + r^2 + 4 r R\right)^2\left(2 l^2 - 2 r^2 - 8 r R - 9 R^2\right)\right)\right)\}$$

$$\{X74,\ \text{ISOGONAL CONJUGATE OF EULER INFINITY POINT},\ X87,\ X(2)\text{-CROSS CONJUGATE OF } X(1),$$
$$\left(R\left(6 l^{10} r + 22 l^8 r^3 + 28 l^6 r^5 + 12 l^4 r^7 - 2 l^2 r^9 - 2 r^{11} + 9 l^{10} R - 175 l^8 r^2 R - 310 l^6 r^4 R - 46 l^4 r^6 R + 93 l^2 r^8 R + 13 r^{10} R - 420 l^8 r R^2 + 1744 l^6 r^3 R^2 + 1096 l^4 r^5 R^2 - 624 l^2 r^7 R^2 + 444 r^9 R^2 - 36 l^8 R^3 + 6144 l^6 r^2 R^3 - 11752 l^4 r^4 R^3 + 928 l^2 r^6 R^3 + 2476 r^8 R^3 + 1440 l^6 r R^4 - 30816 l^4 r^3 R^4 + 27744 l^2 r^5 R^4 + 2656 r^7 R^4 - 16704 l^4 r^2 R^5 + 69504 l^2 r^4 R^5 - 15168 r^6 R^5 + 46080 l^2 r^3 R^6 - 46080 r^5 R^6 - 36864 r^4 R^7\right)\right) \Big/ \left(\left(2 l^2 - 2 r^2 - 8 r R - 9 R^2\right)\left(l^4 + 2 l^2 r^2 + r^4 - 20 l^2 r R + 12 r^3 R + 32 r^2 R^2\right)^2\right)\}$$

$$\{X74,\ \text{ISOGONAL CONJUGATE OF EULER INFINITY POINT},\ X88,\ \text{ISOGONAL CONJUGATE OF } X(44),$$
$$\left(R\left(3 l^6 r + 23 l^4 r^3 - 27 l^2 r^5 + 81 r^7 + 9 l^6 R - 82 l^4 r^2 R - 279 l^2 r^4 R + 324 r^6 R - 318 l^4 r R^2 + 684 l^2 r^3 R^2 + 162 r^5 R^2 - 36 l^4 R^3 + 3312 l^2 r^2 R^3 - 2592 r^4 R^3 + 1080 l^2 r R^4 - 8424 r^3 R^4 - 8100 r^2 R^5\right)\right) \Big/ \left(\left(l^2 + 3 r^2 - 15 r R\right)^2\left(2 l^2 - 2 r^2 - 8 r R - 9 R^2\right)\right)\}$$

$$\{X74,\ \text{ISOGONAL CONJUGATE OF EULER INFINITY POINT},\ X89,\ \text{ISOGONAL CONJUGATE OF } X(45),$$
$$-\left(\left(R\left(6 l^6 r + 58 l^4 r^3 + 18 l^2 r^5 - 162 r^7 - 36 l^6 R + 307 l^4 r^2 R - 54 l^2 r^4 R - 1053 r^6 R + 12 l^4 r R^2 - 216 l^2 r^3 R^2 - 2916 r^5 R^2 + 144 l^4 R^3 - 684 l^2 r^2 R^3 - 4212 r^4 R^3 + 432 l^2 r R^4 - 2592 r^3 R^4 + 324 r^2 R^5\right)\right) \Big/ \left(\left(2 l^2 - 6 r^2 + 3 r R\right)^2\left(2 l^2 - 2 r^2 - 8 r R - 9 R^2\right)\right)\right)\}$$

$$\{X74,\ \text{ISOGONAL CONJUGATE OF EULER INFINITY POINT},\ X90,\ X(3)\text{-CROSS CONJUGATE OF } X(1),$$
$$\left(R\left(2 l^4 r^3 - 6 l^2 r^5 - 12 l^4 r^2 R + 7 l^2 r^4 R - 9 r^6 R + 6 l^4 r R^2 + 90 l^2 r^3 R^2 - 84 r^5 R^2 + 72 l^2 r^2 R^3 - 276 r^4 R^3 - 84 l^2 r R^4 - 328 r^3 R^4 + 9 l^2 R^5 + 29 r^2 R^5 + 204 r R^6 - 36 R^7\right)\right) \Big/ \left(\left(2 l^2 - 2 r^2 - 8 r R - 9 R^2\right)\left(r^2 + 2 r R - R^2\right)^2\right)\}$$

$$\{X74,\ \text{ISOGONAL CONJUGATE OF EULER INFINITY POINT},\ X91,\ \text{ISOGONAL CONJUGATE OF } X(47),$$
$$-\left(\left(l^8 r^2 + 4 l^6 r^4 + 6 l^4 r^6 + 4 l^2 r^8 + r^{10} - 3 l^8 r R + 8 l^6 r^3 R - 62 l^4 r^5 R + 64 l^2 r^7 R + 9 r^9 R + 34 l^6 r^2 R^2 - 282 l^4 r^4 R^2 + 406 l^2 r^6 R^2 + 18 r^8 R^2 + 48 l^6 r R^3 - 412 l^4 r^3 R^3 + 1272 l^2 r^5 R^3 - 92 r^7 R^3 - 9 l^6 R^4 - 351 l^4 r^2 R^4 + 2005 l^2 r^4 R^4 - 581 r^6 R^4 - 144 l^4 r R^5 + 1552 l^2 r^3 R^5 - 1312 r^5 R^5 + 72 l^4 R^6 + 544 l^2 r^2 R^6 - 1352 r^4 R^6 - 48 l^2 r R^7 - 416 r^3 R^7 - 180 l^2 R^8 + 316 r^2 R^8 + 336 r R^9 + 144 R^{10}\right) \Big/ \left(\left(2 l^2 - 2 r^2 - 8 r R - 9 R^2\right)\left(l^2 r + r^3 - l^2 R + 3 r^2 R + 2 r R^2 + 2 R^3\right)^2\right)\right)\}$$

$$\{X74,\ \text{ISOGONAL CONJUGATE OF EULER INFINITY POINT},$$
$$X92,\ \text{CEVAPOINT OF INCENTER AND CLAWSON POINT},$$
$$-\frac{1}{\left(2 l^2 - 2 r^2 - 8 r R - 9 R^2\right)\left(l^2 + r^2 - 4 R^2\right)^2}\left(l^8 + 4 l^6 r^2 + 6 l^4 r^4 + 4 l^2 r^6 + r^8 + 12 l^6 r R - 68 l^4 r^3 R + 52 l^2 r^5 R + 4 r^7 R - 20 l^6 R^2 - 268 l^4 r^2 R^2 + 404 l^2 r^4 R^2 - 52 r^6 R^2 - 152 l^4 r R^3 + 1392 l^2 r^3 R^3 - 536 r^5 R^3 + 148 l^4 R^4 + 1944 l^2 r^2 R^4 - 2092 r^4 R^4 + 608 l^2 r R^5 - 4064 r^3 R^5 - 480 l^2 R^6 - 3680 r^2 R^6 - 768 r R^7 + 576 R^8\right)\}$$

$$\{X74,\ \text{ISOGONAL CONJUGATE OF EULER INFINITY POINT},\ X93,\ \text{ISOGONAL CONJUGATE OF } X(49),$$
$$-\left(\left(l^{12} + 6 l^{10} r^2 + 15 l^8 r^4 + 20 l^6 r^6 + 15 l^4 r^8 + 6 l^2 r^{10} + r^{12} - 24 l^{10} r R - 72 l^8 r^3 R - 48 l^6 r^5 R + 48 l^4 r^7 R + 72 l^2 r^9 R + 24 r^{11} R - 34 l^{10} R^2 + 234 l^8 r^2 R^2 - 292 l^6 r^4 R^2 + 388 l^4 r^6 R^2 + 198 l^2 r^8 R^2 + 274 r^{10} R^2 + 680 l^8 r R^3 - 1888 l^6 r^3 R^3 + 3312 l^4 r^5 R^3 - 1376 l^2 r^7 R^3 + 1960 r^9 R^3 + 410 l^8 R^4 - 6072 l^6 r^2 R^4 + 13980 l^4 r^4 R^4 - 13112 l^2 r^6 R^4 + 9690 r^8 R^4 - 6560 l^6 r R^5 + 33376 l^4 r^3 R^5 - 50016 l^2 r^5 R^5 + 34464 r^7 R^5 - 2410 l^6 R^6 + 44310 l^4 r^2 R^6 - 111062 l^2 r^4 R^6 + 89386 r^6 R^6 + 28920 l^4 r R^7 - 153680 l^2 r^3 R^7 + 168696 r^5 R^7 + 7429 l^4 R^8 - 129318 l^2 r^2 R^8 + 228069 r^4 R^8 - 59432 l^2 r R^9 + 213672 r^3 R^9 - 11480 l^2 R^{10} + 130344 r^2 R^{10} + 45920 r R^{11} + 7056 R^{12}\right) \Big/ \left(\left(2 l^2 - 2 r^2 - 8 r R - 9 R^2\right)\left(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 8 l^2 R^2 + 24 r^2 R^2 + 32 r R^3 + 13 R^4\right)^2\right)\right)\}$$

$$\{X74,\ \text{ISOGONAL CONJUGATE OF EULER INFINITY POINT},\ X94,\ \text{ISOGONAL CONJUGATE OF } X(50),$$
$$-\left(\left(l^{12} + 6 l^{10} r^2 + 15 l^8 r^4 + 20 l^6 r^6 + 15 l^4 r^8 + 6 l^2 r^{10} + r^{12} - 24 l^{10} r R - 72 l^8 r^3 R - 48 l^6 r^5 R + 48 l^4 r^7 R + 72 l^2 r^9 R + 24 r^{11} R - 42 l^{10} R^2 + 210 l^8 r^2 R^2 - 308 l^6 r^4 R^2 + 404 l^4 r^6 R^2 + 222 l^2 r^8 R^2 + 282 r^{10} R^2 + 840 l^8 r R^3 - 1760 l^6 r^3 R^3 + 3248 l^4 r^5 R^3 - 1248 l^2 r^7 R^3 + 2120 r^9 R^3 + 576 l^8 R^4 - 6720 l^6 r^2 R^4 + 13632 l^4 r^4 R^4 - 13248 l^2 r^6 R^4 + 11136 r^8 R^4 - 9216 l^6 r R^5 + 36096 l^4 r^3 R^5 - 53760 l^2 r^5 R^5 + 42240 r^7 R^5 - 4050 l^6 R^6 + 58158 l^4 r^2 R^6 - 130350 l^2 r^4 R^6 + 117202 r^6 R^6 + 48600 l^4 r R^7 - 207504 l^2 r^3 R^7 + 239064 r^5 R^7 + 15795 l^4 R^8 - 213354 l^2 r^2 R^8 + 357651 r^4 R^8 - 126360 l^2 r R^9 + 385560 r^3 R^9 - 32076 l^2 R^{10} + 284796 r^2 R^{10} + 128304 r R^{11} + 26244 R^{12}\right) \Big/ \left(\left(2 l^2 - 2 r^2 - 8 r R - 9 R^2\right)\left(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 12 l^2 R^2 + 28 r^2 R^2 + 48 r R^3 + 27 R^4\right)^2\right)\right)\}$$

$$\{X74,\ \text{ISOGONAL CONJUGATE OF EULER INFINITY POINT},\ X95,\ \text{CEVAPOINT OF CENTROID AND CIRCUMCENTER},$$
$$-\left(\left(l^{12} + 22 l^{10} r^2 + 79 l^8 r^4 + 116 l^6 r^6 + 79 l^4 r^8 + 22 l^2 r^{10} + r^{12} - 24 l^{10} r R - 328 l^8 r^3 R - 304 l^6 r^5 R + 304 l^4 r^7 R + 328 l^2 r^9 R + 24 r^{11} R - 20 l^{10} R^2 - 12 l^8 r^2 R^2 - 552 l^6 r^4 R^2 + 1160 l^4 r^6 R^2 + 1980 l^2 r^8 R^2 + 260 r^{10} R^2 + 400 l^8 r R^3 + 1344 l^6 r^3 R^3 + 3168 l^4 r^5 R^3 + 5952 l^2 r^7 R^3 + 1680 r^9 R^3 + 148 l^8 R^4 - 2688 l^6 r^2 R^4 + 5208 l^4 r^4 R^4 + 7296 l^2 r^6 R^4 + 7188 r^8 R^4 - 2368 l^6 r R^5 + 11072 l^4 r^3 R^5 - 7488 l^2 r^5 R^5 + 21312 r^7 R^5 - 480 l^6 R^6 + 16800 l^4 r^2 R^6 - 38944 l^2 r^4 R^6 + 44384 r^6 R^6 + 5760 l^4 r R^7 - 54016 l^2 r^3 R^7 + 64128 r^5 R^7 + 576 l^4 R^8 - 31104 l^2 r^2 R^8 + 61504 r^4 R^8 - 4608 l^2 r R^9 + 35328 r^3 R^9 + 9216 r^2 R^{10}\right) \Big/ \left(\left(2 l^2 - 2 r^2 - 8 r R - 9 R^2\right)\left(l^4 + 18 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 4 l^2 R^2 + 20 r^2 R^2 + 16 r R^3\right)^2\right)\right)\}$$

$$\{X74,\ \text{ISOGONAL CONJUGATE OF EULER INFINITY POINT},\ X96,\ \text{ISOGONAL CONJUGATE OF } X(52),$$
$$\big(l^{12} - 10\,l^{10} r^2 - 49\,l^8 r^4 - 76\,l^6 r^6 - 49\,l^4 r^8 - 10\,l^2 r^{10} + r^{12} - 24\,l^{10} r R + 184\,l^8 r^3 R + 208\,l^6 r^5 R - 208\,l^4 r^7 R - 184\,l^2 r^9 R + 24\,r^{11} R + 176\,l^8 r^2 R^2 + 640\,l^6 r^4 R^2 - 1056\,l^4 r^6 R^2 - 1280\,l^2 r^8 R^2 + 240\,r^{10} R^2 - 512\,l^6 r^3 R^3 - 3840\,l^4 r^5 R^3 - 4096\,l^2 r^7 R^3 + 1280\,r^9 R^3 - 64\,l^8 R^4 + 112\,l^6 r^2 R^4 - 4768\,l^4 r^4 R^4 - 5520\,l^2 r^6 R^4 + 3776\,r^8 R^4 + 1024\,l^6 r R^5 - 1920\,l^4 r^3 R^5 - 128\,l^2 r^5 R^5 + 5120\,r^7 R^5 + 448\,l^6 R^6 - 4480\,l^4 r^2 R^6 + 8320\,l^2 r^4 R^6 - 2496\,r^6 R^6 - 5376\,l^4 r R^7 + 15\,104\,l^2 r^3 R^7 - 21\,760\,r^5 R^7 - 1680\,l^4 R^8 + 20\,000\,l^2 r^2 R^8 - 39\,568\,r^4 R^8 + 13\,440\,l^2 r R^9 - 42\,112\,r^3 R^9 + 3200\,l^2 R^{10} - 30\,080\,r^2 R^{10} - 12\,800\,r R^{11} - 2304\,R^{12}\big) \Big/ \big((2\,l^2 - 2\,r^2 - 8\,r R - 9\,R^2)\,(l^4 - 14\,l^2 r^2 + r^4 - 8\,l^2 r R + 8\,r^3 R + 16\,r^2 R^2 - 4\,R^4)^2\big)\}$$

$$\{X74,\ \text{ISOGONAL CONJUGATE OF EULER INFINITY POINT},\ X97,\ \text{ISOGONAL CONJUGATE OF } X(53),$$
$$\big(R^2\,(12\,l^{10} - 124\,l^8 r^2 + 376\,l^6 r^4 - 376\,l^4 r^6 + 124\,l^2 r^8 - 12\,r^{10} - 240\,l^8 r R + 1728\,l^6 r^3 R - 3232\,l^4 r^5 R + 1728\,l^2 r^7 R - 240\,r^9 R - 205\,l^8 R^2 + 3452\,l^6 r^2 R^2 - 11\,758\,l^4 r^4 R^2 + 10\,364\,l^2 r^6 R^2 - 2125\,r^8 R^2 + 3280\,l^6 r R^3 - 23\,216\,l^4 r^3 R^3 + 34\,992\,l^2 r^5 R^3 - 10\,960\,r^7 R^3 + 1388\,l^6 R^4 - 26\,484\,l^4 r^2 R^4 + 72\,916\,l^2 r^4 R^4 - 36\,428\,r^6 R^4 - 16\,656\,l^4 r R^5 + 96\,352\,l^2 r^3 R^5 - 81\,424\,r^5 R^5 - 4660\,l^4 R^6 + 79\,208\,l^2 r^2 R^6 - 123\,764\,r^4 R^6 + 37\,280\,l^2 r R^7 - 126\,112\,r^3 R^7 + 7776\,l^2 R^8 - 82\,336\,r^2 R^8 - 31\,104\,r R^9 - 5184\,R^{10})\big) \Big/ \big((2\,l^2 - 2\,r^2 - 8\,r R - 9\,R^2)\,(l^4 - 6\,l^2 r^2 + r^4 - 8\,l^2 r R + 8\,r^3 R - 7\,l^2 R^2 + 23\,r^2 R^2 + 28\,r R^3 + 12\,R^4)^2\big)\}$$

$$\{X74,\ \text{ISOGONAL CONJUGATE OF EULER INFINITY POINT},\ X98,\ \text{TarryPoint},$$
$$\frac{(l^2 + r^2 + 2\,r R)^2\,(l^4 + 2\,l^2 r^2 + r^4 - 20\,l^2 r R + 12\,r^3 R - 4\,l^2 R^2 + 48\,r^2 R^2 + 64\,r R^3)}{(2\,l^2 - 2\,r^2 - 8\,r R - 9\,R^2)\,(l^4 - 14\,l^2 r^2 + r^4 - 8\,l^2 r R + 8\,r^3 R + 16\,r^2 R^2)}\}$$

$$\{X74,\ \text{ISOGONAL CONJUGATE OF EULER INFINITY POINT},\ X99,\ \text{STEINER POINT},$$
$$-\frac{(l^4 + 2\,l^2 r^2 + r^4 - 8\,l^2 r R + 8\,r^3 R - 6\,l^2 R^2 + 22\,r^2 R^2 + 24\,r R^3)^2}{(2\,l^2 - 2\,r^2 - 8\,r R - 9\,R^2)\,(l^4 - 14\,l^2 r^2 + r^4 - 8\,l^2 r R + 8\,r^3 R + 16\,r^2 R^2)}\}$$

$$\{X74,\ \text{ISOGONAL CONJUGATE OF EULER INFINITY POINT},\ X100,$$
$$\text{ANTICOMPLEMENT OF FEUERBACH POINT},\ -\frac{R\,(l^2 + r^2 - 2\,r R - 6\,R^2)^2}{(2\,r - R)\,(-2\,l^2 + 2\,r^2 + 8\,r R + 9\,R^2)}\}$$

$$\{X75,\ \text{ISOTOMIC CONJUGATE OF INCENTER},\ X76,\ \text{3rd BROCARD POINT},$$
$$\frac{64\,l^4 r^2 R^2\,(l^6 - l^4 r^2 - 5\,l^2 r^4 - 3\,r^6 - 24\,l^4 r R + 64\,l^2 r^3 R - 40\,r^5 R + 144\,l^2 r^2 R^2 - 176\,r^4 R^2 - 256\,r^3 R^3)}{(l^2 + r^2 + 4\,r R)^2\,(l^4 + 2\,l^2 r^2 + r^4 - 8\,l^2 r R + 8\,r^3 R + 16\,r^2 R^2)^2}\}$$

$$\{X75,\ \text{ISOTOMIC CONJUGATE OF INCENTER},\ X77,\ \text{ISOGONAL CONJUGATE OF } X(33),$$
$$\big(l^4\,(l^6 + 3\,l^4 r^2 + 3\,l^2 r^4 + r^6 - 20\,l^4 r R + 16\,l^2 r^3 R + 4\,r^5 R - 8\,l^4 R^2 + 24\,l^2 r^2 R^2 - 16\,r^4 R^2 + 144\,l^2 r R^3 - 80\,r^3 R^3 + 16\,l^2 R^4 - 128\,r^2 R^4 - 256\,r R^5)\big) \Big/ \big((l^2 + r^2 + 4\,r R)^2\,(l^2 - r R - 4\,R^2)^2\big)\}$$

$$\{X75,\ \text{ISOTOMIC CONJUGATE OF INCENTER},\ X78,\ \text{ISOGONAL CONJUGATE OF } X(34),$$
$$\frac{1}{(r - R)^2\,(l^2 + r^2 + 4\,r R)^2}\,r^2\,(l^6 + 3\,l^4 r^2 + 3\,l^2 r^4 + r^6 - 12\,l^4 r R + 32\,l^2 r^3 R + 12\,r^5 R + 8\,l^4 R^2 - 24\,l^2 r^2 R^2 + 48\,r^4 R^2 - 112\,l^2 r R^3 + 48\,r^3 R^3 + 16\,l^2 R^4 - 128\,r^2 R^4 - 256\,r R^5)\}$$

$$\{X75,\ \text{ISOTOMIC CONJUGATE OF INCENTER},\ X79,\ \text{ISOGONAL CONJUGATE OF } X(35),$$
$$\big(R\,(18\,l^6 r - 90\,l^4 r^3 + 22\,l^2 r^5 + 2\,r^7 + 9\,l^6 R - 165\,l^4 r^2 R + 43\,l^2 r^4 R + 25\,r^6 R - 144\,l^4 r R^2 + 120\,l^2 r^3 R^2 + 104\,r^5 R^2 + 144\,r^4 R^3)\big) \Big/ \big((2\,r + 3\,R)^2\,(l^2 + r^2 + 4\,r R)^2\big)\}$$

$$\{X75,\ \text{ISOTOMIC CONJUGATE OF INCENTER},\ X80,\ \text{REFLECTION OF INCENTER IN FEUERBACH POINT},$$
$$-\frac{R\,(l^6 + 11\,l^4 r^2 - 45\,l^2 r^4 + 9\,r^6 - 16\,l^4 r R - 72\,l^2 r^3 R + 72\,r^5 R + 144\,r^4 R^2)}{(2\,r - R)\,(l^2 + r^2 + 4\,r R)^2}\}$$

$$\{X75, \text{ISOTOMIC CONJUGATE OF INCENTER}, X81, \text{CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},$$
$$\left(l^{10}+3 l^8 r^2+2 l^6 r^4-2 l^4 r^6-3 l^2 r^8-r^{10}-16 l^8 r R+40 l^6 r^3 R-48 l^4 r^5 R+8 l^2 r^7 R-16 r^9 R+8 l^6 r^2 R^2-132 l^4 r^4 R^2+80 l^2 r^6 R^2-100 r^8 R^2-128 l^4 r^3 R^3+112 l^2 r^5 R^3-304 r^7 R^3+16 l^2 r^4 R^4-448 r^6 R^4-256 r^5 R^5\right) / \left(\left(l^2-r^2-r R\right)^2\left(l^2+r^2+4 r R\right)^2\right)\}$$

$$\{X75, \text{ISOTOMIC CONJUGATE OF INCENTER}, X82, \text{ISOGONAL CONJUGATE OF } X(38),$$
$$\left(\left(l^2-r^2-4 r R\right)^2\left(l^{10}+l^8 r^2-6 l^6 r^4-14 l^4 r^6-11 l^2 r^8-3 r^{10}-24 l^8 r R+72 l^6 r^3 R-216 l^4 r^5 R+152 l^2 r^7 R-48 r^9 R+160 l^6 r^2 R^2-688 l^4 r^4 R^2+1152 l^2 r^6 R^2-304 r^8 R^2-576 l^4 r^3 R^3+2176 l^2 r^5 R^3-960 r^7 R^3+1088 l^2 r^4 R^4-1536 r^6 R^4-1024 r^5 R^5\right)\right) / \left(\left(l^2+r^2+4 r R\right)^2\left(l^4-4 l^2 r^2+3 r^4-9 l^2 r R+19 r^3 R+28 r^2 R^2\right)^2\right)\}$$

$$\{X75, \text{ISOTOMIC CONJUGATE OF INCENTER}, X83, \text{CEVAPOINT OF CENTROID AND SYMMEDIAN POINT},$$
$$\left(16\left(l^{14}+l^{12} r^2-3 l^{10} r^4-3 l^8 r^6+3 l^6 r^8+3 l^4 r^{10}-l^2 r^{12}-r^{14}-32 l^{12} r R+56 l^{10} r^3 R-132 l^8 r^5 R+168 l^6 r^7 R-64 l^4 r^9 R+32 l^2 r^{11} R-28 r^{13} R+368 l^{10} r^2 R^2-1068 l^8 r^4 R^2+1852 l^6 r^6 R^2-1492 l^4 r^8 R^2+772 l^2 r^{10} R^2-336 r^{12} R^2-2240 l^8 r^3 R^3+7168 l^6 r^5 R^3-9280 l^4 r^7 R^3+5952 l^2 r^9 R^3-2240 r^{11} R^3+8256 l^6 r^4 R^4-22848 l^4 r^6 R^4+21632 l^2 r^8 R^4-8960 r^{10} R^4-18944 l^4 r^5 R^5+37888 l^2 r^7 R^5-21504 r^9 R^5+25600 l^2 r^6 R^6-28672 r^8 R^6-16384 r^7 R^7\right)\right) / \left(\left(l^2+r^2+4 r R\right)^2\left(5 l^4-6 l^2 r^2+5 r^4-40 l^2 r R+40 r^3 R+80 r^2 R^2\right)^2\right)\}$$

$$\left\{X75, \text{ISOTOMIC CONJUGATE OF INCENTER}, X84, \text{ISOGONAL CONJUGATE OF } X(40), -\frac{1}{r^2\left(l^2+r^2+4 r R\right)^2}\right.$$
$$\left.\left(l^6 r^2+3 l^4 r^4+3 l^2 r^6+r^8-4 l^6 r R-12 l^2 r^5 R+16 r^7 R+4 l^6 R^2-24 l^4 r^2 R^2-44 l^2 r^4 R^2+96 r^6 R^2+32 l^4 r R^3+32 l^2 r^3 R^3+256 r^5 R^3-16 l^4 R^4+32 l^2 r^2 R^4+240 r^4 R^4-128 l^2 r R^5-128 r^3 R^5-256 r^2 R^6\right)\right\}$$

$$\left\{X75, \text{ISOTOMIC CONJUGATE OF INCENTER}, X85,\right.$$
$$\left.\text{ISOTOMIC CONJUGATE OF } X(9), \frac{256 l^4 R^3\left(l^2 r-r^3+l^2 R-8 r^2 R-16 r R^2\right)}{\left(l^2+r^2+4 r R\right)^2\left(l^2+r^2+8 r R+16 R^2\right)^2}\right\}$$

$$\left\{X75, \text{ISOTOMIC CONJUGATE OF INCENTER}, X86, \text{CEVAPOINT OF INCENTER AND CENTROID},\right.$$
$$\left.\frac{16 l^4\left(l^6+3 l^4 r^2+3 l^2 r^4+r^6-16 l^4 r R+24 l^2 r^3 R+8 r^5 R+16 r^4 R^2\right)}{\left(l^2+r^2+4 r R\right)^2\left(5 l^2+r^2+4 r R\right)^2}\right\}$$

$$\{X75, \text{ISOTOMIC CONJUGATE OF INCENTER}, X87, X(2)\text{-CROSS CONJUGATE OF } X(1),$$
$$\left(l^{14}+7 l^{12} r^2+21 l^{10} r^4+35 l^8 r^6+35 l^6 r^8+21 l^4 r^{10}+7 l^2 r^{12}+r^{14}-48 l^{12} r R-184 l^{10} r^3 R-232 l^8 r^5 R-48 l^6 r^7 R+128 l^4 r^9 R+104 l^2 r^{11} R+24 r^{13} R+832 l^{10} r^2 R^2+688 l^8 r^4 R^2-704 l^6 r^6 R^2+32 l^4 r^8 R^2+768 l^2 r^{10} R^2+176 r^{12} R^2-6272 l^8 r^3 R^3+10368 l^6 r^5 R^3-9600 l^4 r^7 R^3+6528 l^2 r^9 R^3+21504 l^6 r^4 R^4-49408 l^4 r^6 R^4+37376 l^2 r^8 R^4-6400 r^{10} R^4-53248 l^4 r^5 R^5+92160 l^2 r^7 R^5-34816 r^9 R^5+69632 l^2 r^6 R^6-77824 r^8 R^6-65536 r^7 R^7\right) / \left(\left(l^2+r^2+4 r R\right)^2\left(l^4+2 l^2 r^2+r^4-20 l^2 r R+12 r^3 R+32 r^2 R^2\right)^2\right)\}$$

$$\{X75, \text{ISOTOMIC CONJUGATE OF INCENTER}, X88, \text{ISOGONAL CONJUGATE OF } X(44),$$
$$\left(l^{10}+3 l^8 r^2-6 l^6 r^4-26 l^4 r^6-27 l^2 r^8-9 r^{10}-40 l^8 r R-72 l^6 r^3 R+128 l^4 r^5 R+216 l^2 r^7 R-72 r^9 R+552 l^6 r^2 R^2+508 l^4 r^4 R^2-1296 l^2 r^6 R^2-36 r^8 R^2-2976 l^4 r^3 R^3-432 l^2 r^5 R^3+720 r^7 R^3+4752 l^2 r^4 R^4+576 r^6 R^4-2304 r^5 R^5\right) / \left(\left(l^2+3 r^2-15 r R\right)^2\left(l^2+r^2+4 r R\right)^2\right)\}$$

$$\{X75, \text{ISOTOMIC CONJUGATE OF INCENTER}, X89, \text{ISOGONAL CONJUGATE OF } X(45),$$
$$\left(4\left(l^{10}+3 l^8 r^2-6 l^6 r^4-26 l^4 r^6-27 l^2 r^8-9 r^{10}-10 l^8 r R+84 l^6 r^3 R-184 l^4 r^5 R+108 l^2 r^7 R-126 r^9 R-75 l^6 r^2 R^2-71 l^4 r^4 R^2+243 l^2 r^6 R^2-657 r^8 R^2-300 l^4 r^3 R^3-432 l^2 r^5 R^3-1548 r^7 R^3-540 l^2 r^4 R^4-1584 r^6 R^4-576 r^5 R^5\right)\right) / \left(\left(2 l^2-6 r^2+3 r R\right)^2\left(l^2+r^2+4 r R\right)^2\right)\}$$

$$\{X75, \text{ISOTOMIC CONJUGATE OF INCENTER}, X90, X(3)\text{-CROSS CONJUGATE OF } X(1),$$
$$-\left(\left(l^6 r^4+3 l^4 r^6+3 l^2 r^8+r^{10}-2 l^6 r^3 R+6 l^4 r^5 R-6 l^2 r^7 R+18 r^9 R-112 l^2 r^6 R^2+128 r^8 R^2+2 l^6 r R^3+18 l^4 r^3 R^3-178 l^2 r^5 R^3+446 r^7 R^3-l^6 R^4-43 l^4 r^2 R^4+93 l^2 r^4 R^4+743 r^6 R^4+16 l^4 r R^5+72 l^2 r^3 R^5+408 r^5 R^5-144 r^4 R^6\right) / \left(\left(l^2+r^2+4 r R\right)^2\left(r^2+2 r R-R^2\right)^2\right)\right)\}$$

$$\left\{X75,\ \text{ISOTOMIC CONJUGATE OF INCENTER},\ X91,\ \text{ISOGONAL CONJUGATE OF } X(47),\ \frac{1}{\left(l^2+r^2+4\,r\,R\right)^2\left(l^2\,r+r^3-l^2\,R+3\,r^2\,R+2\,r\,R^2+2\,R^3\right)^2}\right.$$
$$\left.R^2\left(l^{10}+l^8\,r^2-6\,l^6\,r^4-14\,l^4\,r^6-11\,l^2\,r^8-3\,r^{10}-24\,l^8\,r\,R+8\,l^6\,r^3\,R+40\,l^4\,r^5\,R-40\,l^2\,r^7\,R-48\,r^9\,R-4\,l^8\,R^2+120\,l^6\,r^2\,R^2+208\,l^4\,r^4\,R^2-216\,l^2\,r^6\,R^2-300\,r^8\,R^2+80\,l^6\,r\,R^3+16\,l^4\,r^3\,R^3-848\,l^2\,r^5\,R^3-912\,r^7\,R^3+4\,l^6\,R^4-212\,l^4\,r^2\,R^4-1236\,l^2\,r^4\,R^4-1340\,r^6\,R^4-64\,l^4\,r\,R^5-416\,l^2\,r^3\,R^5-736\,r^5\,R^5+64\,r^4\,R^6\right)\right\}$$

$$\left\{X75,\ \text{ISOTOMIC CONJUGATE OF INCENTER},\ X92,\ \text{CEVAPOINT OF INCENTER AND CLAWSON POINT},\ -\left(\left(16\,r^2\,R^2\left(l^6+3\,l^4\,r^2+3\,l^2\,r^4+r^6+8\,l^4\,r\,R-8\,l^2\,r^3\,R+16\,r^5\,R-4\,l^4\,R^2-80\,l^2\,r^2\,R^2+100\,r^4\,R^2-112\,l^2\,r\,R^3+304\,r^3\,R^3-16\,l^2\,R^4+448\,r^2\,R^4+256\,r\,R^5\right)\right)\Big/\left(\left(l^2+r^2+4\,r\,R\right)^2\left(l^2+r^2-4\,R^2\right)^2\right)\right)\right\}$$

$$\left\{X75,\ \text{ISOTOMIC CONJUGATE OF INCENTER},\ X93,\ \text{ISOGONAL CONJUGATE OF } X(49),\ \left(4\,R^2\left(16\,l^{10}\,r^2-16\,l^8\,r^4-80\,l^6\,r^6-48\,l^4\,r^8+12\,l^{10}\,r\,R-456\,l^8\,r^3\,R+864\,l^6\,r^5\,R-696\,l^4\,r^7\,R+20\,l^2\,r^9\,R+2\,l^{10}\,R^2-442\,l^8\,r^2\,R^2+3940\,l^6\,r^4\,R^2-4484\,l^4\,r^6\,R^2+346\,l^2\,r^8\,R^2-2\,r^{10}\,R^2-140\,l^8\,r\,R^3+5340\,l^6\,r^3\,R^3-14\,028\,l^4\,r^5\,R^3+2468\,l^2\,r^7\,R^3-40\,r^9\,R^3-12\,l^8\,R^4+2504\,l^6\,r^2\,R^4-21\,096\,l^4\,r^4\,R^4+9080\,l^2\,r^6\,R^4-332\,r^8\,R^4+444\,l^6\,r\,R^5-14\,880\,l^4\,r^3\,R^5+17\,956\,l^2\,r^5\,R^5-1472\,r^7\,R^5+18\,l^6\,R^6-4174\,l^4\,r^2\,R^6+18\,350\,l^2\,r^4\,R^6-3730\,r^6\,R^6-396\,l^4\,r\,R^7+8612\,l^2\,r^3\,R^7-5336\,r^5\,R^7+l^4\,R^8+1222\,l^2\,r^2\,R^8-3935\,r^4\,R^8+8\,l^2\,r\,R^9-1144\,r^3\,R^9+16\,r^2\,R^{10}\right)\right)\Big/\left(\left(l^2+r^2+4\,r\,R\right)^2\left(l^4+2\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-8\,l^2\,R^2+24\,r^2\,R^2+32\,r\,R^3+13\,R^4\right)^2\right)\right\}$$

$$\left\{X75,\ \text{ISOTOMIC CONJUGATE OF INCENTER},\ X94,\ \text{ISOGONAL CONJUGATE OF } X(50),\ \left(4\,R^2\left(16\,l^{10}\,r^2-16\,l^8\,r^4-80\,l^6\,r^6-48\,l^4\,r^8+24\,l^{10}\,r\,R-456\,l^8\,r^3\,R+856\,l^6\,r^5\,R-664\,l^4\,r^7\,R+48\,l^2\,r^9\,R+9\,l^{10}\,R^2-765\,l^8\,r^2\,R^2+4650\,l^6\,r^4\,R^2-5018\,l^4\,r^6\,R^2+813\,l^2\,r^8\,R^2-9\,r^{10}\,R^2-396\,l^8\,r\,R^3+7968\,l^6\,r^3\,R^3-18\,832\,l^4\,r^5\,R^3+5904\,l^2\,r^7\,R^3-180\,r^9\,R^3-54\,l^8\,R^4+5616\,l^6\,r^2\,R^4-33\,924\,l^4\,r^4\,R^4+22\,656\,l^2\,r^6\,R^4-1494\,r^8\,R^4+1512\,l^6\,r\,R^5-29\,736\,l^4\,r^3\,R^5+47\,568\,l^2\,r^5\,R^5-6624\,r^7\,R^5+81\,l^6\,R^6-11\,799\,l^4\,r^2\,R^6+52\,839\,l^2\,r^4\,R^6-16\,785\,r^6\,R^6-1620\,l^4\,r\,R^7+28\,296\,l^2\,r^3\,R^7-24\,012\,r^5\,R^7+5508\,l^2\,r^2\,R^8-17\,712\,r^4\,R^8-5184\,r^3\,R^9\right)\right)\Big/\left(\left(l^2+r^2+4\,r\,R\right)^2\left(l^4+2\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-12\,l^2\,R^2+28\,r^2\,R^2+48\,r\,R^3+27\,R^4\right)^2\right)\right\}$$

$$\left\{X75,\ \text{ISOTOMIC CONJUGATE OF INCENTER},\ X95,\ \text{CEVAPOINT OF CENTROID AND CIRCUMCENTER},\ -\left(\left(64\,l^4\,r^2\,R\left(2\,l^6\,r+30\,l^4\,r^3-106\,l^2\,r^5-6\,r^7-l^6\,R-63\,l^4\,r^2\,R-75\,l^2\,r^4\,R-77\,r^6\,R+20\,l^4\,r\,R^2+264\,l^2\,r^3\,R^2-332\,r^5\,R^2+8\,l^4\,R^3-8\,l^2\,r^2\,R^3-464\,r^4\,R^3-176\,l^2\,r\,R^4+208\,r^3\,R^4-16\,l^2\,R^5+640\,r^2\,R^5+256\,r\,R^6\right)\right)\Big/\left(\left(l^2+r^2+4\,r\,R\right)^2\left(l^4+18\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-4\,l^2\,R^2+20\,r^2\,R^2+16\,r\,R^3\right)^2\right)\right)\right\}$$

$$\left\{X75,\ \text{ISOTOMIC CONJUGATE OF INCENTER},\ X96,\ \text{ISOGONAL CONJUGATE OF } X(52),\ -\left(\left(4\,R\left(4\,l^{12}\,r-92\,l^{10}\,r^3+584\,l^8\,r^5-1112\,l^6\,r^7+244\,l^4\,r^9-12\,l^2\,r^{11}-3\,l^{12}\,R-26\,l^{10}\,r^2\,R+867\,l^8\,r^4\,R-3740\,l^6\,r^6\,R+2371\,l^4\,r^8\,R-170\,l^2\,r^{10}\,R-3\,r^{12}\,R+24\,l^{10}\,r\,R^2+392\,l^8\,r^3\,R^2-4544\,l^6\,r^5\,R^2+7680\,l^4\,r^7\,R^2-792\,l^2\,r^9\,R^2-72\,r^{11}\,R^2+16\,l^{10}\,R^3-64\,l^8\,r^2\,R^3-2720\,l^6\,r^4\,R^3+9696\,l^4\,r^6\,R^3-688\,l^2\,r^8\,R^3-736\,r^{10}\,R^3-96\,l^8\,r\,R^4-896\,l^6\,r^3\,R^4+5472\,l^4\,r^5\,R^4+5184\,l^2\,r^7\,R^4-4160\,r^9\,R^4-32\,l^8\,R^5-208\,l^6\,r^2\,R^5+2784\,l^4\,r^4\,R^5+15\,984\,l^2\,r^6\,R^5-14\,112\,r^8\,R^5+2240\,l^4\,r^3\,R^6+16\,320\,l^2\,r^5\,R^6-29\,184\,r^7\,R^6+32\,l^6\,R^7+1120\,l^4\,r^2\,R^7+6176\,l^2\,r^4\,R^7-35\,872\,r^6\,R^7+192\,l^4\,r\,R^8-64\,l^2\,r^3\,R^8-24\,960\,r^5\,R^8-16\,l^4\,R^9-608\,l^2\,r^2\,R^9-9744\,r^4\,R^9-128\,l^2\,r\,R^{10}-2176\,r^3\,R^{10}-256\,r^2\,R^{11}\right)\right)\Big/\left(\left(l^2+r^2+4\,r\,R\right)^2\left(l^4-14\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R+16\,r^2\,R^2-4\,R^4\right)^2\right)\right)\right\}$$

$$\left\{X75,\ \text{ISOTOMIC CONJUGATE OF INCENTER},\ X97,\ \text{ISOGONAL CONJUGATE OF } X(53),\ \left(l^{14}-3\,l^{12}\,r^2-15\,l^{10}\,r^4-11\,l^8\,r^6+11\,l^6\,r^8+15\,l^4\,r^{10}+3\,l^2\,r^{12}-r^{14}-28\,l^{12}\,r\,R+168\,l^{10}\,r^3\,R-548\,l^8\,r^5\,R+1008\,l^6\,r^7\,R-164\,l^4\,r^9\,R+104\,l^2\,r^{11}\,R-28\,r^{13}\,R-12\,l^{12}\,R^2+268\,l^{10}\,r^2\,R^2-1556\,l^8\,r^4\,R^2+4904\,l^6\,r^6\,R^2-2916\,l^4\,r^8\,R^2+1260\,l^2\,r^{10}\,R^2-348\,r^{12}\,R^2+304\,l^{10}\,r\,R^3-2544\,l^8\,r^3\,R^3+10\,896\,l^6\,r^5\,R^3-14\,768\,l^4\,r^7\,R^3+7872\,l^2\,r^9\,R^3-2528\,r^{11}\,R^3+52\,l^{10}\,R^4-2276\,l^8\,r^2\,R^4+15\,112\,l^6\,r^4\,R^4-37\,672\,l^4\,r^6\,R^4+29\,252\,l^2\,r^8\,R^4-11\,892\,r^{10}\,R^4-1200\,l^8\,r\,R^5+13\,184\,l^6\,r^3\,R^5-56\,192\,l^4\,r^5\,R^5+69\,056\,l^2\,r^7\,R^5-37\,904\,r^9\,R^5-96\,l^8\,R^6+7184\,l^6\,r^2\,R^6-51\,936\,l^4\,r^4\,R^6+106\,768\,l^2\,r^6\,R^6-83\,168\,r^8\,R^6+2048\,l^6\,r\,R^7-29\,824\,l^4\,r^3\,R^7+108\,672\,l^2\,r^5\,R^7-124\,928\,r^7\,R^7+64\,l^6\,R^8-9536\,l^4\,r^2\,R^8+70\,720\,l^2\,r^4\,R^8-124\,992\,r^6\,R^8-1280\,l^4\,r\,R^9+26\,624\,l^2\,r^3\,R^9-78\,592\,r^5\,R^9+4352\,l^2\,r^2\,R^{10}-27\,648\,r^4\,R^{10}-4096\,r^3\,R^{11}\right)\Big/\left(\left(l^2+r^2+4\,r\,R\right)^2\left(l^4-6\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-7\,l^2\,R^2+23\,r^2\,R^2+28\,r\,R^3+12\,R^4\right)^2\right)\right\}$$

$$\{X75,\ \text{ISOTOMIC CONJUGATE OF INCENTER},\ X98,\ \text{TarryPoint},$$
$$-\left(\left(4R\left(4l^8 r-36l^6 r^3+76l^4 r^5-12l^2 r^7-l^8 R-28l^6 r^2 R+186l^4 r^4 R-108l^2 r^6 R-r^8 R+112l^4 r^3 R^2-288l^2 r^5 R^2-16r^7 R^2+32l^4 r^2 R^3-192l^2 r^4 R^3-96r^6 R^3-256r^5 R^4-256r^4 R^5\right)\right)\Big/\left(\left(l^2+r^2+4rR\right)^2\left(l^4-14l^2 r^2+r^4-8l^2 rR+8r^3 R+16r^2 R^2\right)\right)\right)\}$$

$$\{X75,\ \text{ISOTOMIC CONJUGATE OF INCENTER},\ X99,\ \text{STEINER POINT},$$
$$\frac{64l^4 r^2 R\left(2l^2 r-6r^3+l^2 R-19r^2 R-16rR^2\right)}{\left(l^2+r^2+4rR\right)^2\left(l^4-14l^2 r^2+r^4-8l^2 rR+8r^3 R+16r^2 R^2\right)}\}$$

$$\{X75,\ \text{ISOTOMIC CONJUGATE OF INCENTER},\ X100,\ \text{ANTICOMPLEMENT OF FEUERBACH POINT},$$
$$\frac{4r^2 R\left(-3l^4+14l^2 r^2+r^4+28l^2 rR+12r^3 R-4l^2 R^2+48r^2 R^2+64rR^3\right)}{(2r-R)\left(l^2+r^2+4rR\right)^2}\}$$

$$\{X76,\ \text{3rd BROCARD POINT},\ X77,\ \text{ISOGONAL CONJUGATE OF X(33)},$$
$$\frac{1}{\left(l^2-rR-4R^2\right)^2\left(l^4+2l^2 r^2+r^4-8l^2 rR+8r^3 R+16r^2 R^2\right)^2}$$
$$l^4\left(l^{10}+5l^8 r^2+10l^6 r^4+10l^4 r^6+5l^2 r^8+r^{10}-28l^8 rR-72l^6 r^3 R-48l^4 r^5 R+8l^2 r^7 R+12r^9 R-8l^8 R^2+200l^6 r^2 R^2+344l^4 r^4 R^2-72l^2 r^6 R^2+48r^8 R^2+208l^6 rR^3-400l^4 r^3 R^3-272l^2 r^5 R^3+80r^7 R^3+16l^6 R^4-1440l^4 r^2 R^4-752l^2 r^4 R^4+192r^6 R^4-384l^4 rR^5+3456l^2 r^3 R^5+512r^5 R^5+2304l^2 r^2 R^6-1024r^4 R^6-4096r^3 R^7\right)\}$$

$$\{X76,\ \text{3rd BROCARD POINT},\ X78,\ \text{ISOGONAL CONJUGATE OF X(34)},$$
$$\frac{1}{(r-R)^2\left(l^4+2l^2 r^2+r^4-8l^2 rR+8r^3 R+16r^2 R^2\right)^2}$$
$$r^2\left(l^{10}+5l^8 r^2+10l^6 r^4+10l^4 r^6+5l^2 r^8+r^{10}-20l^8 rR-40l^6 r^3 R+40l^2 r^7 R+20r^9 R-8l^8 R^2+56l^6 r^2 R^2+168l^4 r^4 R^2+8l^2 r^6 R^2+160r^8 R^2+176l^6 rR^3-176l^4 r^3 R^3-496l^2 r^5 R^3+624r^7 R^3+16l^6 R^4-864l^4 r^2 R^4-368l^2 r^4 R^4+1024r^6 R^4-384l^4 rR^5+2432l^2 r^3 R^5-512r^5 R^5+2304l^2 r^2 R^6-4096r^4 R^6-4096r^3 R^7\right)\}$$

$$\{X76,\ \text{3rd BROCARD POINT},\ X79,\ \text{ISOGONAL CONJUGATE OF X(35)},$$
$$\frac{1}{(2r+3R)^2\left(l^4+2l^2 r^2+r^4-8l^2 rR+8r^3 R+16r^2 R^2\right)^2}$$
$$R\left(18l^{10}r+42l^8 r^3+20l^6 r^5-12l^4 r^7-6l^2 r^9+2r^{11}+9l^{10}R-339l^8 r^2 R-518l^6 r^4 R+570l^4 r^6 R-243l^2 r^8 R+41r^{10}R-216l^8 rR^2+1512l^6 r^3 R^2+2472l^4 r^5 R^2-1992l^2 r^7 R^2+336r^9 R^2+1296l^6 r^2 R^3-5808l^2 r^6 R^3+1376r^8 R^3-2304l^4 r^3 R^4-5376l^2 r^5 R^4+2816r^7 R^4+2304r^6 R^5\right)\}$$

$$\{X76,\ \text{3rd BROCARD POINT},\ X80,\ \text{REFLECTION OF INCENTER IN FEUERBACH POINT},$$
$$-\left(\left(R\left(l^{10}-3l^8 r^2-6l^6 r^4+10l^4 r^6+21l^2 r^8+9r^{10}-24l^8 rR+136l^6 r^3 R-280l^4 r^5 R+216l^2 r^7 R+144r^9 R+144l^6 r^2 R^2-768l^4 r^4 R^2+720l^2 r^6 R^2+864r^8 R^2-256l^4 r^3 R^3+768l^2 r^5 R^3+2304r^7 R^3+2304r^6 R^4\right)\right)\Big/\left((2r-R)\left(l^4+2l^2 r^2+r^4-8l^2 rR+8r^3 R+16r^2 R^2\right)^2\right)\right)\}$$

$$\{X76,\ \text{3rd BROCARD POINT},\ X81,\ \text{CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},$$
$$\frac{1}{\left(l^2-r^2-rR\right)^2\left(l^4+2l^2 r^2+r^4-8l^2 rR+8r^3 R+16r^2 R^2\right)^2}$$
$$\left(l^{14}+5l^{12}r^2+9l^{10}r^4+5l^8 r^6-5l^6 r^8-9l^4 r^{10}-5l^2 r^{12}-r^{14}-24l^{12}rR-56l^{10}r^3 R-8l^8 r^5 R+48l^6 r^7 R-8l^4 r^9 R-56l^2 r^{11}R-24r^{13}R+136l^{10}r^2 R^2+300l^8 r^4 R^2-544l^6 r^6 R^2+360l^4 r^8 R^2-200l^2 r^{10}R^2-244r^{12}R^2-64l^8 r^3 R^3-1072l^6 r^5 R^3+1296l^4 r^7 R^3-80l^2 r^9 R^3-1360r^{11}R^3-1136l^6 r^4 R^4+2208l^4 r^6 R^4+1168l^2 r^8 R^4-4480r^{10}R^4+1664l^4 r^5 R^5+2944l^2 r^7 R^5-8704r^9 R^5+2304l^2 r^6 R^6-9216r^8 R^6-4096r^7 R^7\right)\}$$

{X76, 3rd BROCARD POINT, X82, ISOGONAL CONJUGATE OF X(38),

$$\left(l^{18}+l^{16}r^2-8l^{14}r^4-16l^{12}r^6+2l^{10}r^8+26l^8r^{10}+16l^6r^{12}-8l^4r^{14}-11l^2r^{16}-3r^{18}-40l^{16}rR+8l^{14}r^3R+184l^{12}r^5R+72l^{10}r^7R-88l^8r^9R+88l^6r^{11}R+40l^4r^{13}R-168l^2r^{15}R-96r^{17}R+624l^{14}r^2R^2-144l^{12}r^4R^2-3312l^{10}r^6R^2+5456l^8r^8R^2-5616l^6r^{10}R^2+3216l^4r^{12}R^2-912l^2r^{14}R^2-1360r^{16}R^2-5056l^{12}r^3R^3-1856l^{10}r^5R^3+34624l^8r^7R^3-56320l^6r^9R^3+35904l^4r^{11}R^3-2240l^2r^{13}R^3-11200r^{15}R^3+22272l^{10}r^4R^4+36928l^8r^6R^4-188736l^6r^8R^4+180672l^4r^{10}R^4-6848l^2r^{12}R^4-59136r^{14}R^4-45056l^8r^5R^5-219136l^6r^7R^5+456704l^4r^9R^5-44032l^2r^{11}R^5-207872r^{13}R^5-11264l^6r^6R^6+531456l^4r^8R^6-153600l^2r^{10}R^6-487424r^{12}R^6+188416l^4r^7R^7-229376l^2r^9R^7-737280r^{11}R^7-114688l^2r^8R^8-655360r^{10}R^8-262144r^9R^9\right)\Big/\left(\left(l^4+2l^2r^2+r^4-8l^2rR+8r^3R+16r^2R^2\right)^2\left(l^4-4l^2r^2+3r^4-9l^2rR+19r^3R+28r^2R^2\right)^2\right)\}$$

{X76, 3rd BROCARD POINT, X83, CEVAPOINT OF CENTROID AND SYMMEDIAN POINT,

$$\left(16\left(l^2-r^2-4rR\right)^2\left(l^{14}+5l^{12}r^2+9l^{10}r^4+5l^8r^6-5l^6r^8-9l^4r^{10}-5l^2r^{12}-r^{14}-28l^{12}rR-72l^{10}r^3R-36l^8r^5R+16l^6r^7R-36l^4r^9R-72l^2r^{11}R-28r^{13}R+228l^{10}r^2R^2+448l^8r^4R^2-488l^6r^6R^2+304l^4r^8R^2-348l^2r^{10}R^2-336r^{12}R^2-512l^8r^3R^3-2112l^6r^5R^3+2240l^4r^7R^3-448l^2r^9R^3-2240r^{11}R^3-1408l^6r^4R^4+5632l^4r^6R^4+1152l^2r^8R^4-8960r^{10}R^4+6144l^4r^5R^5+3072l^2r^7R^5-21504r^9R^5+1024l^2r^6R^6-28672r^8R^6-16384r^7R^7\right)\right)\Big/\left(\left(l^4+2l^2r^2+r^4-8l^2rR+8r^3R+16r^2R^2\right)^2\left(5l^4-6l^2r^2+5r^4-40l^2rR+40r^3R+80r^2R^2\right)^2\right)\}$$

{X76, 3rd BROCARD POINT, X84, ISOGONAL CONJUGATE OF X(40),

$$-\frac{1}{r^2\left(l^4+2l^2r^2+r^4-8l^2rR+8r^3R+16r^2R^2\right)^2}\left(l^{10}r^2+5l^8r^4+10l^6r^6+10l^4r^8+5l^2r^{10}+r^{12}-4l^{10}rR-32l^8r^3R-48l^6r^5R+8l^4r^7R+52l^2r^9R+24r^{11}R+4l^{10}R^2+80l^8r^2R^2+184l^6r^4R^2-256l^4r^6R^2+132l^2r^8R^2+240r^{10}R^2-64l^8rR^3-448l^6r^3R^3+320l^4r^5R^3-320l^2r^7R^3+1280r^9R^3-16l^8R^4+320l^6r^2R^4+928l^4r^4R^4-1984l^2r^6R^4+3824r^8R^4+256l^6rR^5-768l^4r^3R^5-2304l^2r^5R^5+5888r^7R^5-1536l^4r^2R^6+2048l^2r^4R^6+2560r^6R^6+4096l^2r^3R^7-4096r^5R^7-4096r^4R^8\right)\}$$

{X76, 3rd BROCARD POINT, X85, ISOTOMIC CONJUGATE OF X(9),

$$\left(64l^4R^2\left(3l^6r^2+5l^4r^4+l^2r^6-r^8+8l^6rR-52l^4r^3R+48l^2r^5R-20r^7R+4l^6R^2-168l^4r^2R^2+372l^2r^4R^2-160r^6R^2-96l^4rR^3+928l^2r^3R^3-640r^5R^3+576l^2r^2R^4-1280r^4R^4-1024r^3R^5\right)\right)\Big/\left(\left(l^2+r^2+8rR+16R^2\right)^2\left(l^4+2l^2r^2+r^4-8l^2rR+8r^3R+16r^2R^2\right)^2\right)\}$$

{X76, 3rd BROCARD POINT, X86, CEVAPOINT OF INCENTER AND CENTROID,

$$\left(16l^4\left(l^{10}+5l^8r^2+10l^6r^4+10l^4r^6+5l^2r^8+r^{10}-20l^8rR-48l^6r^3R-24l^4r^5R+16l^2r^7R+12r^9R+52l^6r^2R^2+268l^4r^4R^2-4l^2r^6R^2+36r^8R^2+224l^4r^3R^3+128l^2r^5R^3-96r^7R^3-448l^2r^4R^4-704r^6R^4-1024r^5R^5\right)\right)\Big/\left(\left(5l^2+r^2+4rR\right)^2\left(l^4+2l^2r^2+r^4-8l^2rR+8r^3R+16r^2R^2\right)^2\right)\}$$

{X76, 3rd BROCARD POINT, X87, X(2)-CROSS CONJUGATE OF X(1),

$$\left(l^{18}+9l^{16}r^2+36l^{14}r^4+84l^{12}r^6+126l^{10}r^8+126l^8r^{10}+84l^6r^{12}+36l^4r^{14}+9l^2r^{16}+r^{18}-56l^{16}rR-360l^{14}r^3R-952l^{12}r^5R-1288l^{10}r^7R-840l^8r^9R-56l^6r^{11}R+280l^4r^{13}R+168l^2r^{15}R+32r^{17}R+1168l^{14}r^2R^2+4960l^{12}r^4R^2+7408l^{10}r^6R^2+3776l^8r^8R^2-656l^6r^{10}R^2-416l^4r^{12}R^2+784l^2r^{14}R^2+384r^{16}R^2-10880l^{12}r^3R^3-30336l^{10}r^5R^3-16896l^8r^7R^3+7936l^6r^9R^3+1408l^4r^{11}R^3-2176l^2r^{13}R^3+1792r^{15}R^3+39936l^{10}r^4R^4+119296l^8r^6R^4-94208l^6r^8R^4+68608l^4r^{10}R^4-23552l^2r^{12}R^4-3584r^{14}R^4+2048l^8r^5R^5-329728l^6r^7R^5+264192l^4r^9R^5-14336l^2r^{11}R^5-86016r^{13}R^5-323584l^6r^6R^6+401408l^4r^8R^6+266240l^2r^{10}R^6-458752r^{12}R^6+425984l^4r^7R^7+753664l^2r^9R^7-1245184r^{11}R^7+589824l^2r^8R^8-1769472r^{10}R^8-1048576r^9R^9\right)\Big/\left(\left(l^4+2l^2r^2+r^4-8l^2rR+8r^3R+16r^2R^2\right)^2\left(l^4+2l^2r^2+r^4-20l^2rR+12r^3R+32r^2R^2\right)^2\right)\}$$

$$\{X76,\ 3rd\ BROCARD\ POINT,\ X88,\ ISOGONAL\ CONJUGATE\ OF\ X(44),$$
$$\left(l^{14}+5 l^{12} r^2+l^{10} r^4-35 l^8 r^6-85 l^6 r^8-89 l^4 r^{10}-45 l^2 r^{12}-9 r^{14}-48 l^{12} r R-152 l^{10} r^3 R+48 l^8 r^5 R+432 l^6 r^7 R+208 l^4 r^9 R-216 l^2 r^{11} R-144 r^{13} R+840 l^{10} r^2 R^2+1420 l^8 r^4 R^2+1416 l^4 r^8 R^2+216 l^2 r^{10} R^2-756 r^{12} R^2-6304 l^8 r^3 R^3-4624 l^6 r^5 R^3-12560 l^4 r^7 R^3+2448 l^2 r^9 R^3-720 r^{11} R^3+16656 l^6 r^4 R^4+11680 l^4 r^6 R^4+8208 l^2 r^8 R^4+5760 r^{10} R^4+7296 l^4 r^5 R^5+3456 l^2 r^7 R^5+13824 r^9 R^5-52992 l^2 r^6 R^6-9216 r^8 R^6-36864 r^7 R^7\right)\Big/\left(\left(l^2+3 r^2-15 r R\right)^2\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)^2\right)\}$$

$$\{X76,\ 3rd\ BROCARD\ POINT,\ X89,\ ISOGONAL\ CONJUGATE\ OF\ X(45),$$
$$\left(4\left(l^{14}+5 l^{12} r^2+l^{10} r^4-35 l^8 r^6-85 l^6 r^8-89 l^4 r^{10}-45 l^2 r^{12}-9 r^{14}-18 l^{12} r R-32 l^{10} r^3 R+174 l^8 r^5 R+336 l^6 r^7 R-86 l^4 r^9 R-432 l^2 r^{11} R-198 r^{13} R-3 l^{10} r^2 R^2+235 l^8 r^4 R^2-2238 l^6 r^6 R^2+2214 l^4 r^8 R^2-1215 l^2 r^{10} R^2-1809 r^{12} R^2+644 l^8 r^3 R^3-1432 l^6 r^5 R^3+2128 l^4 r^7 R^3+504 l^2 r^9 R^3-8820 r^{11} R^3-1068 l^6 r^4 R^4+712 l^4 r^6 R^4+10260 l^2 r^8 R^4-24480 r^{10} R^4-5280 l^4 r^5 R^5+23328 l^2 r^7 R^5-38016 r^9 R^5+14400 l^2 r^6 R^6-29952 r^8 R^6-9216 r^7 R^7\right)\right)\Big/\left(\left(2 l^2-6 r^2+3 r R\right)^2\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)^2\right)\}$$

$$\{X76,\ 3rd\ BROCARD\ POINT,\ X90,\ X(3)\text{-}CROSS\ CONJUGATE\ OF\ X(1),$$
$$-\frac{1}{\left(r^2+2 r R-R^2\right)^2\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)^2}\left(l^{10} r^4+5 l^8 r^6+10 l^6 r^8+10 l^4 r^{10}+5 l^2 r^{12}+r^{14}-2 l^{10} r^3 R-22 l^8 r^5 R-28 l^6 r^7 R+28 l^4 r^9 R+62 l^2 r^{11} R+26 r^{13} R+32 l^8 r^4 R^2+112 l^6 r^6 R^2-224 l^4 r^8 R^2+240 l^2 r^{10} R^2+288 r^{12} R^2+2 l^{10} r R^3+6 l^8 r^3 R^3-124 l^6 r^5 R^3-548 l^4 r^7 R^3+58 l^2 r^9 R^3+1758 r^{11} R^3-l^{10} R^4-45 l^8 r^2 R^4+22 l^6 r^4 R^4+390 l^4 r^6 R^4-1765 l^2 r^8 R^4+6359 r^{10} R^4+24 l^8 r R^5+152 l^6 r^3 R^5+408 l^4 r^5 R^5-4152 l^2 r^7 R^5+13488 r^9 R^5-144 l^6 r^2 R^6+256 l^4 r^4 R^6-3280 l^2 r^6 R^6+15008 r^8 R^6+256 l^4 r^3 R^7-768 l^2 r^5 R^7+5376 r^7 R^7-2304 r^6 R^8\right)\}$$

$$\{X76,\ 3rd\ BROCARD\ POINT,\ X91,\ ISOGONAL\ CONJUGATE\ OF\ X(47),$$
$$\left(R^2\left(l^{14}-13 l^{12} r^2+45 l^{10} r^4+7 l^8 r^6-141 l^6 r^8-55 l^4 r^{10}+31 l^2 r^{12}-3 r^{14}-32 l^{12} r R+408 l^{10} r^3 R-1768 l^8 r^5 R+3120 l^6 r^7 R-2096 l^4 r^9 R+696 l^2 r^{11} R-72 r^{13} R-4 l^{12} R^2+384 l^{10} r^2 R^2-3700 l^8 r^4 R^2+12064 l^6 r^6 R^2-14124 l^4 r^8 R^2+5856 l^2 r^{10} R^2-732 r^{12} R^2+112 l^{10} r R^3-2800 l^8 r^3 R^3+17056 l^6 r^5 R^3-35872 l^4 r^7 R^3+24048 l^2 r^9 R^3-4080 r^{11} R^3+4 l^{10} R^4-972 l^8 r^2 R^4+11720 l^6 r^4 R^4-42360 l^4 r^6 R^4+51316 l^2 r^8 R^4-13436 r^{10} R^4-96 l^8 r R^5+3872 l^6 r^3 R^5-26208 l^4 r^5 R^5+55392 l^2 r^7 R^5-26048 r^9 R^5+576 l^6 r^2 R^6-7680 l^4 r^4 R^6+27968 l^2 r^6 R^6-27264 r^8 R^6-1024 l^4 r^3 R^7+7168 l^2 r^5 R^7-11264 r^7 R^7+1024 r^6 R^8\right)\right)\Big/\left(\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)^2\left(l^2 r+r^3-l^2 R+3 r^2 R+2 r R^2+2 R^3\right)^2\right)\}$$

$$\{X76,\ 3rd\ BROCARD\ POINT,\ X92,\ CEVAPOINT\ OF\ INCENTER\ AND\ CLAWSON\ POINT,$$
$$\frac{1}{\left(l^2+r^2-4 R^2\right)^2\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)^2}16 r^2 R^2\left(3 l^{10}-l^8 r^2-6 l^6 r^4+2 l^4 r^6+3 l^2 r^8-r^{10}-80 l^8 r R+168 l^6 r^3 R-152 l^4 r^5 R+88 l^2 r^7 R-24 r^9 R-12 l^8 R^2+584 l^6 r^2 R^2-1152 l^4 r^4 R^2+824 l^2 r^6 R^2-244 r^8 R^2+336 l^6 r R^3-2736 l^4 r^3 R^3+3504 l^2 r^5 R^3-1360 r^7 R^3+16 l^6 R^4-2272 l^4 r^2 R^4+7312 l^2 r^4 R^4-4480 r^6 R^4-384 l^4 r R^5+7040 l^2 r^3 R^5-8704 r^5 R^5+2304 l^2 r^2 R^6-9216 r^4 R^6-4096 r^3 R^7\right)\}$$

{X76, 3rd BROCARD POINT, X93, ISOGONAL CONJUGATE OF X(49),

$$\left(4 R^4 \left(2 l^{14} - 14 l^{12} r^2 - 54 l^{10} r^4 - 38 l^8 r^6 + 38 l^6 r^8 + 54 l^4 r^{10} + 14 l^2 r^{12} - 2 r^{14} - 56 l^{12} r R + 336 l^{10} r^3 R + 312 l^8 r^5 R - 160 l^6 r^7 R + 312 l^4 r^9 R + 336 l^2 r^{11} R - 56 r^{13} R - 12 l^{12} R^2 + 456 l^{10} r^2 R^2 + 236 l^8 r^4 R^2 - 6672 l^6 r^6 R^2 + 1484 l^4 r^8 R^2 + 3144 l^2 r^{10} R^2 - 684 r^{12} R^2 + 288 l^{10} r R^3 - 1312 l^8 r^3 R^3 - 14016 l^6 r^5 R^3 + 11200 l^4 r^7 R^3 + 14752 l^2 r^9 R^3 - 4768 r^{11} R^3 + 18 l^{10} R^4 - 1410 l^8 r^2 R^4 - 10068 l^6 r^4 R^4 + 38100 l^4 r^6 R^4 + 36162 l^2 r^8 R^4 - 20818 r^{10} R^4 - 360 l^8 r R^5 - 1920 l^6 r^3 R^5 + 49360 l^4 r^5 R^5 + 41088 l^2 r^7 R^5 - 58728 r^9 R^5 + l^8 R^6 + 752 l^6 r^2 R^6 + 26718 l^4 r^4 R^6 + 7408 l^2 r^6 R^6 - 106303 r^8 R^6 - 16 l^6 r R^7 + 5520 l^4 r^3 R^7 - 20112 l^2 r^5 R^7 - 118000 r^7 R^7 + 96 l^4 r^2 R^8 - 11136 l^2 r^4 R^8 - 72096 r^6 R^8 - 256 l^2 r^3 R^9 - 18176 r^5 R^9 + 256 r^4 R^{10}\right)\right) \Big/ \left(\left(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\right)^2 \left(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 8 l^2 R^2 + 24 r^2 R^2 + 32 r R^3 + 13 R^4\right)^2\right)\}$$

{X76, 3rd BROCARD POINT, X94, ISOGONAL CONJUGATE OF X(50),

$$\left(36 R^4 \left(l^{14} - 3 l^{12} r^2 - 15 l^{10} r^4 - 11 l^8 r^6 + 11 l^6 r^8 + 15 l^4 r^{10} + 3 l^2 r^{12} - r^{14} - 28 l^{12} r R + 88 l^{10} r^3 R + 92 l^8 r^5 R - 48 l^6 r^7 R + 92 l^4 r^9 R + 88 l^2 r^{11} R - 28 r^{13} R - 6 l^{12} R^2 + 228 l^{10} r^2 R^2 - 10 l^8 r^4 R^2 - 1160 l^6 r^6 R^2 + 358 l^4 r^8 R^2 + 932 l^2 r^{10} R^2 - 342 r^{12} R^2 + 144 l^{10} r R^3 - 656 l^8 r^3 R^3 - 3424 l^6 r^5 R^3 + 2528 l^4 r^7 R^3 + 4816 l^2 r^9 R^3 - 2384 r^{11} R^3 + 9 l^{10} R^4 - 765 l^8 r^2 R^4 - 3046 l^6 r^4 R^4 + 9894 l^4 r^6 R^4 + 13021 l^2 r^8 R^4 - 10409 r^{10} R^4 - 180 l^8 r R^5 - 240 l^6 r^3 R^5 + 16008 l^4 r^5 R^5 + 17168 l^2 r^7 R^5 - 29364 r^9 R^5 + 468 l^6 r^2 R^6 + 10440 l^4 r^4 R^6 + 6676 l^2 r^6 R^6 - 53152 r^8 R^6 + 2016 l^4 r^3 R^7 - 5472 l^2 r^5 R^7 - 59008 r^7 R^7 - 4032 l^2 r^4 R^8 - 36096 r^6 R^8 - 9216 r^5 R^9\right)\right) \Big/ \left(\left(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\right)^2 \left(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 12 l^2 R^2 + 28 r^2 R^2 + 48 r R^3 + 27 R^4\right)^2\right)\}$$

{X76, 3rd BROCARD POINT, X95, CEVAPOINT OF CENTROID AND CIRCUMCENTER,

$$\left(256 l^4 r^4 R^2 \left(3 l^8 - 20 l^6 r^2 + 210 l^4 r^4 - 20 l^2 r^6 + 3 r^8 - 48 l^6 r R + 208 l^4 r^3 R - 208 l^2 r^5 R + 48 r^7 R - 4 l^6 R^2 + 156 l^4 r^2 R^2 - 572 l^2 r^4 R^2 + 292 r^6 R^2 + 48 l^4 r R^3 - 288 l^2 r^3 R^3 + 816 r^5 R^3 + 4 l^4 R^4 - 248 l^2 r^2 R^4 + 964 r^4 R^4 - 32 l^2 r R^5 + 288 r^3 R^5 + 64 r^2 R^6\right)\right) \Big/ \left(\left(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\right)^2 \left(l^4 + 18 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 4 l^2 R^2 + 20 r^2 R^2 + 16 r R^3\right)^2\right)\}$$

{X76, 3rd BROCARD POINT, X96, ISOGONAL CONJUGATE OF X(52),

$$\left(4 R^2 \left(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 2 l^2 R^2 + 18 r^2 R^2 + 8 r R^3\right)^2 \left(3 l^8 - 20 l^6 r^2 + 210 l^4 r^4 - 20 l^2 r^6 + 3 r^8 - 48 l^6 r R + 208 l^4 r^3 R - 208 l^2 r^5 R + 48 r^7 R - 4 l^6 R^2 + 156 l^4 r^2 R^2 - 572 l^2 r^4 R^2 + 292 r^6 R^2 + 48 l^4 r R^3 - 288 l^2 r^3 R^3 + 816 r^5 R^3 + 4 l^4 R^4 - 248 l^2 r^2 R^4 + 964 r^4 R^4 - 32 l^2 r R^5 + 288 r^3 R^5 + 64 r^2 R^6\right)\right) \Big/ \left(\left(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\right)^2 \left(l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2 - 4 R^4\right)^2\right)\}$$

{X76, 3rd BROCARD POINT, X97, ISOGONAL CONJUGATE OF X(53),

$$\left(l^{18} - l^{16} r^2 - 20 l^{14} r^4 - 44 l^{12} r^6 - 26 l^{10} r^8 + 26 l^8 r^{10} + 44 l^6 r^{12} + 20 l^4 r^{14} + l^2 r^{16} - r^{18} - 36 l^{16} r R + 64 l^{14} r^3 R + 336 l^{12} r^5 R + 192 l^{10} r^7 R - 88 l^8 r^9 R + 192 l^6 r^{11} R + 336 l^4 r^{13} R + 64 l^2 r^{15} R - 36 r^{17} R - 12 l^{16} R^2 + 452 l^{14} r^2 R^2 - 312 l^{12} r^4 R^2 - 4484 l^{10} r^6 R^2 + 8392 l^8 r^8 R^2 - 3716 l^6 r^{10} R^2 + 2376 l^4 r^{12} R^2 + 1220 l^2 r^{14} R^2 - 588 r^{16} R^2 + 384 l^{14} r R^3 - 2784 l^{12} r^3 R^3 - 4768 l^{10} r^5 R^3 + 35264 l^8 r^7 R^3 - 36032 l^6 r^9 R^3 + 10144 l^4 r^{11} R^3 + 11744 l^2 r^{13} R^3 - 5760 r^{15} R^3 + 52 l^{14} R^4 - 3932 l^{12} r^2 R^4 + 4340 l^{10} r^4 R^4 + 65476 l^8 r^6 R^4 - 136004 l^6 r^8 R^4 + 35020 l^4 r^{10} R^4 + 67612 l^2 r^{12} R^4 - 37684 r^{14} R^4 - 1456 l^{12} r R^5 + 15584 l^{10} r^3 R^5 + 53424 l^8 r^5 R^5 - 278464 l^6 r^7 R^5 + 112816 l^4 r^9 R^5 + 250080 l^2 r^{11} R^5 - 173488 r^{13} R^5 - 96 l^{12} R^6 + 11536 l^{10} r^2 R^6 + 8224 l^8 r^4 R^6 - 351008 l^6 r^6 R^6 + 295648 l^4 r^8 R^6 + 610320 l^2 r^{10} R^6 - 576672 r^{12} R^6 + 2304 l^{10} r R^7 - 23808 l^8 r^3 R^7 - 266496 l^6 r^5 R^7 + 539392 l^4 r^7 R^7 + 977408 l^2 r^9 R^7 - 1396736 r^{11} R^7 + 64 l^{10} R^8 - 12480 l^8 r^2 R^8 - 99584 l^6 r^4 R^8 + 632576 l^4 r^6 R^8 + 981184 l^2 r^8 R^8 - 2455104 r^{10} R^8 - 1280 l^8 r R^9 - 2560 l^6 r^3 R^9 + 435712 l^4 r^5 R^9 + 534016 l^2 r^7 R^9 - 3077376 r^9 R^9 + 3328 l^6 r^2 R^{10} + 145920 l^4 r^4 R^{10} + 62720 l^2 r^6 R^{10} - 2656256 r^8 R^{10} + 14336 l^4 r^3 R^{11} - 79872 l^2 r^5 R^{11} - 1482752 r^7 R^{11} - 28672 l^2 r^4 R^{12} - 475136 r^6 R^{12} - 65536 r^5 R^{13}\right) \Big/ \left(\left(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\right)^2 \left(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 7 l^2 R^2 + 23 r^2 R^2 + 28 r R^3 + 12 R^4\right)^2\right)\}$$

$$\left\{\text{X76, 3rd BROCARD POINT, X98, TarryPoint, } \frac{4 R^2 \left(l^2-2 l r-r^2-4 r R\right)^2 \left(l^2+2 l r-r^2-4 r R\right)^2}{\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)^2}\right\}$$

$$\left\{\text{X76, 3rd BROCARD POINT, X99, STEINER POINT, } \frac{256 l^4 r^4 R^2}{\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)^2}\right\}$$

$$\{\text{X76, 3rd BROCARD POINT, X100, ANTICOMPLEMENT OF FEUERBACH POINT,}$$
$$\left(4 r^2 R \left(l^8+4 l^6 r^2+6 l^4 r^4+4 l^2 r^6+r^8-28 l^6 r R+92 l^4 r^3 R+12 l^2 r^5 R+20 r^7 R-4 l^6 R^2+152 l^4 r^2 R^2-\right.\right.$$
$$\left.\left.132 l^2 r^4 R^2+160 r^6 R^2+96 l^4 r R^3-608 l^2 r^3 R^3+640 r^5 R^3-576 l^2 r^2 R^4+1280 r^4 R^4+1024 r^3 R^5\right)\right)/$$
$$\left((2 r-R) \left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)^2\right)\}$$

$$\{\text{X77, ISOGONAL CONJUGATE OF X(33), X78, ISOGONAL CONJUGATE OF X(34),}$$
$$\frac{1}{(r-R)^2 \left(-l^2+r R+4 R^2\right)^2} R^2 \left(l^6+7 l^4 r^2-9 l^2 r^4+r^6-20 l^4 r R-24 l^2 r^3 R+12 r^5 R-\right.$$
$$\left.8 l^4 R^2+8 l^2 r^2 R^2+48 r^4 R^2+144 l^2 r R^3+48 r^3 R^3+16 l^2 R^4-128 r^2 R^4-256 r R^5\right)\}$$

$$\{\text{X77, ISOGONAL CONJUGATE OF X(33), X79, ISOGONAL CONJUGATE OF X(35),}$$
$$\left(r^2 \left(-8 l^6+8 l^4 r^2+28 l^4 r R-4 l^2 r^3 R+70 l^4 R^2-38 l^2 r^2 R^2-114 l^2 r R^3+\right.\right.$$
$$\left.\left.2 r^3 R^3-179 l^2 R^4+25 r^2 R^4+104 r R^5+144 R^6\right)\right)/\left((2 r+3 R)^2 \left(-l^2+r R+4 R^2\right)^2\right)\}$$

$$\{\text{X77, ISOGONAL CONJUGATE OF X(33), X80, REFLECTION OF INCENTER IN FEUERBACH POINT,}$$
$$-\frac{r^2 \left(-8 l^4 r+10 l^4 R+6 l^2 r^2 R+12 l^2 r R^2-75 l^2 R^3+9 r^2 R^3+72 r R^4+144 R^5\right)}{(2 r-R) \left(-l^2+r R+4 R^2\right)^2}\}$$

$$\{\text{X77, ISOGONAL CONJUGATE OF X(33), X81, CEVAPOINT OF INCENTER AND SYMMEDIAN POINT,}$$
$$-\frac{r^2 R (r+2 R)^2 \left(6 l^4 r-2 l^2 r^3-11 l^2 r^2 R+r^4 R-40 l^2 r R^2+12 r^3 R^2-4 l^2 R^3+48 r^2 R^3+64 r R^4\right)}{\left(l^2-r^2-r R\right)^2 \left(l^2-r R-4 R^2\right)^2}\}$$

$$\{\text{X77, ISOGONAL CONJUGATE OF X(33), X82, ISOGONAL CONJUGATE OF X(38),}$$
$$-\left(\left(r^2 R \left(28 l^8 r^3-52 l^6 r^5+36 l^4 r^7-12 l^2 r^9+44 l^8 r^2 R-385 l^6 r^4 R+461 l^4 r^6 R-\right.\right.\right.$$
$$195 l^2 r^8 R+3 r^{10} R+16 l^8 r R^2-852 l^6 r^3 R^2+2280 l^4 r^5 R^2-1388 l^2 r^7 R^2+72 r^9 R^2-$$
$$584 l^6 r^2 R^3+5384 l^4 r^4 R^3-5728 l^2 r^6 R^3+736 r^8 R^3-144 l^6 r R^4+6032 l^4 r^3 R^4-$$
$$14720 l^2 r^5 R^4+4160 r^7 R^4-16 l^6 R^5+2880 l^4 r^2 R^5-22592 l^2 r^4 R^5+14080 r^6 R^5+$$
$$\left.\left.512 l^4 r R^6-17920 l^2 r^3 R^6+28672 r^5 R^6-5120 l^2 r^2 R^7+32768 r^4 R^7+16384 r^3 R^8\right)\right)/$$
$$\left.\left.\left(l^2-r R-4 R^2\right)^2 \left(l^4-4 l^2 r^2+3 r^4-9 l^2 r R+19 r^3 R+28 r^2 R^2\right)^2\right)\right)\}$$

$$\{\text{X77, ISOGONAL CONJUGATE OF X(33), X83, CEVAPOINT OF CENTROID AND SYMMEDIAN POINT,}$$
$$\left(l^{14}-3 l^{12} r^2-6 l^{10} r^4+10 l^8 r^6+21 l^6 r^8+9 l^4 r^{10}-52 l^{12} r R+88 l^{10} r^3 R-128 l^8 r^5 R+\right.$$
$$200 l^6 r^7 R-12 l^4 r^9 R+32 l^2 r^{11} R-8 l^{12} R^2+952 l^{10} r^2 R^2-1608 l^8 r^4 R^2+2312 l^6 r^6 R^2-$$
$$1824 l^4 r^8 R^2+704 l^2 r^{10} R^2-16 r^{12} R^2+368 l^{10} r R^3-8432 l^8 r^3 R^3+15952 l^6 r^5 R^3-$$
$$16656 l^4 r^7 R^3+7040 l^2 r^9 R^3-448 r^{11} R^3+16 l^{10} R^4-5984 l^8 r^2 R^4+44496 l^6 r^4 R^4-$$
$$70272 l^4 r^6 R^4+41792 l^2 r^8 R^4-5376 r^{10} R^4-640 l^8 r R^5+46464 l^6 r^3 R^5-163072 l^4 r^5 R^5+$$
$$156672 l^2 r^7 R^5-35840 r^9 R^5+9472 l^6 r^2 R^6-192512 l^4 r^4 R^6+358400 l^2 r^6 R^6-143360 r^8 R^6-$$
$$\left.65536 l^4 r^3 R^7+442368 l^2 r^5 R^7-344064 r^7 R^7+212992 l^2 r^4 R^8-458752 r^6 R^8-262144 r^5 R^9\right)/$$
$$\left.\left(\left(l^2-r R-4 R^2\right)^2 \left(5 l^4-6 l^2 r^2+5 r^4-40 l^2 r R+40 r^3 R+80 r^2 R^2\right)^2\right)\right)\}$$

$$\left\{\text{X77, ISOGONAL CONJUGATE OF X(33), X84, ISOGONAL CONJUGATE OF X(40), } -\frac{1}{r^2 \left(-l^2+r R+4 R^2\right)^2}\right.$$
$$R \left(-4 l^6 r+2 l^4 r^3-2 l^2 r^5+4 l^6 R+24 l^4 r^2 R-15 l^2 r^4 R+r^6 R+24 l^4 r R^2-76 l^2 r^3 R^2+16 r^5 R^2-\right.$$
$$\left.\left.48 l^4 R^3-156 l^2 r^2 R^3+96 r^4 R^3+256 r^3 R^4+192 l^2 R^5+240 r^2 R^5-128 r R^6-256 R^7\right)\right\}$$

$$\{\text{X77, ISOGONAL CONJUGATE OF X(33), X85, ISOTOMIC CONJUGATE OF X(9),}$$
$$\left(l^4 \left(l^6+3 l^4 r^2+3 l^2 r^4+r^6-28 l^4 r R+16 l^2 r^3 R+12 r^5 R-8 l^4 R^2+56 l^2 r^2 R^2+48 r^4 R^2+176 l^2 r R^3+\right.\right.$$
$$\left.\left.48 r^3 R^3+16 l^2 R^4-128 r^2 R^4-256 r R^5\right)\right)/\left(\left(l^2-r R-4 R^2\right)^2 \left(l^2+r^2+8 r R+16 R^2\right)^2\right)\}$$

$$\{X77,\ \text{ISOGONAL CONJUGATE OF } X(33),\ X86,\ \text{CEVAPOINT OF INCENTER AND CENTROID},$$
$$\left(l^4\left(l^6+3l^4r^2+3l^2r^4+r^6-28l^4rR+16l^2r^3R+12r^5R-8l^4R^2+56l^2r^2R^2+48r^4R^2+176l^2rR^3+48r^3R^3+16l^2R^4-128r^2R^4-256rR^5\right)\right)\Big/\left(\left(5l^2+r^2+4rR\right)^2\left(l^2-rR-4R^2\right)^2\right)\}$$

$$\{X77,\ \text{ISOGONAL CONJUGATE OF } X(33),\ X87,\ X(2)\text{-CROSS CONJUGATE OF } X(1),$$
$$\left(r^2R^2\left(21l^{10}+5l^8r^2-46l^6r^4-22l^4r^6+9l^2r^8+r^{10}-584l^8rR+768l^6r^3R-528l^4r^5R+192l^2r^7R+24r^9R-144l^8R^2+4672l^6r^2R^2-4896l^4r^4R^2+1728l^2r^6R^2+176r^8R^2+3712l^6rR^3-18688l^4r^3R^3+10368l^2r^5R^3+256l^6R^4-26112l^4r^2R^4+39936l^2r^4R^4-6400r^6R^4-6144l^4rR^5+73728l^2r^3R^5-34816r^5R^5+36864l^2r^2R^6-77824r^4R^6-65536r^3R^7\right)\right)\Big/$$
$$\left(\left(l^2-rR-4R^2\right)^2\left(l^4+2l^2r^2+r^4-20l^2rR+12r^3R+32r^2R^2\right)^2\right)\}$$

$$\{X77,\ \text{ISOGONAL CONJUGATE OF } X(33),\ X88,\ \text{ISOGONAL CONJUGATE OF } X(44),$$
$$-\left(\left(r^2R\left(12l^6r+66l^4r^3-18l^2r^5-12l^6R-268l^4r^2R-27l^2r^4R+9r^6R+160l^4rR^2-36l^2r^3R^2+72r^5R^2+80l^4R^3+1008l^2r^2R^3+36r^4R^3-1296l^2rR^4-720r^3R^4-144l^2R^5-576r^2R^5+2304rR^6\right)\right)\Big/\left(\left(l^2+3r^2-15rR\right)^2\left(l^2-rR-4R^2\right)^2\right)\right)\}$$

$$\{X77,\ \text{ISOGONAL CONJUGATE OF } X(33),\ X89,\ \text{ISOGONAL CONJUGATE OF } X(45),$$
$$\left(r^2R\left(12l^6r-204l^4r^3+72l^2r^5+9l^6R-443l^4r^2R+540l^2r^4R-36r^6R-304l^4rR^2+2304l^2r^3R^2-504r^5R^2-56l^4R^3+3420l^2r^2R^3-2628r^4R^3+1728l^2rR^4-6192r^3R^4+144l^2R^5-6336r^2R^5-2304rR^6\right)\right)\Big/\left(\left(2l^2-6r^2+3rR\right)^2\left(l^2-rR-4R^2\right)^2\right)\}$$

$$\{X77,\ \text{ISOGONAL CONJUGATE OF } X(33),\ X90,\ X(3)\text{-CROSS CONJUGATE OF } X(1),$$
$$\left(r^2R\left(4l^6r-2l^4r^3+2l^2r^5-30l^4r^2R+21l^2r^4R-r^6R-70l^4rR^2+112l^2r^3R^2-18r^5R^2+10l^4R^3+314l^2r^2R^3-128r^4R^3+314l^2rR^4-446r^3R^4-75l^2R^5-743r^2R^5-408rR^6+144R^7\right)\right)\Big/\left(\left(l^2-rR-4R^2\right)^2\left(r^2+2rR-R^2\right)^2\right)\}$$

$$\{X77,\ \text{ISOGONAL CONJUGATE OF } X(33),\ X91,$$
$$\text{ISOGONAL CONJUGATE OF } X(47),\ \frac{1}{\left(l^2-rR-4R^2\right)^2\left(l^2r+r^3-l^2R+3r^2R+2rR^2+2R^3\right)^2}$$
$$r^2\left(l^{10}+3l^8r^2+3l^6r^4+l^4r^6-24l^8rR+8l^6r^3R-10l^8R^2+70l^6r^2R^2-30l^4r^4R^2+2l^2r^6R^2+240l^6rR^3-192l^4r^3R^3+32l^2r^5R^3+33l^6R^4-661l^4r^2R^4+215l^2r^4R^4-3r^6R^4-872l^4rR^5+840l^2r^3R^5-48r^5R^5-28l^4R^6+1704l^2r^2R^6-300r^4R^6+1344l^2rR^7-912r^3R^7-44l^2R^8-1340r^2R^8-736rR^9+64R^{10}\right)\}$$

$$\{X77,\ \text{ISOGONAL CONJUGATE OF } X(33),\ X92,$$
$$\text{CEVAPOINT OF INCENTER AND CLAWSON POINT},\ \frac{1}{\left(l^2+r^2-4R^2\right)^2\left(l^2-rR-4R^2\right)^2}$$
$$\left(l^{10}+3l^8r^2+3l^6r^4+l^4r^6-28l^8rR-4l^4r^5R-16l^8R^2+120l^6r^2R^2-40l^4r^4R^2+400l^6rR^3-352l^4r^3R^3+48l^2r^5R^3+96l^6R^4-1552l^4r^2R^4+528l^2r^4R^4-16r^6R^4-2112l^4rR^5+2624l^2r^3R^5-256r^5R^5-256l^4R^6+5888l^2r^2R^6-1600r^4R^6+4864l^2rR^7-4864r^3R^7+256l^2R^8-7168r^2R^8-4096rR^9\right)\}$$

$$\{X77,\ \text{ISOGONAL CONJUGATE OF } X(33),\ X93,\ \text{ISOGONAL CONJUGATE OF } X(49),$$
$$\left(l^{14}+5l^{12}r^2+10l^{10}r^4+10l^8r^6+5l^6r^8+l^4r^{10}-28l^{12}rR-72l^{10}r^3R-48l^8r^5R+8l^6r^7R+12l^4r^9R-18l^{12}R^2+140l^{10}r^2R^2+272l^8r^4R^2-76l^6r^6R^2+66l^4r^8R^2+470l^{10}rR^3+136l^8r^3R^3-564l^6r^5R^3+280l^4r^7R^3-2l^2r^9R^3+128l^{10}R^4-2560l^8r^2R^4-1644l^6r^4R^4+1128l^4r^6R^4-44l^2r^8R^4-3122l^8rR^5+4170l^6r^3R^5+2786l^4r^5R^5-346l^2r^7R^5-450l^8R^6+14460l^6r^2R^6-1582l^4r^4R^6-996l^2r^6R^6-8r^8R^6+10358l^6rR^7-22772l^4r^3R^7+1390l^2r^5R^7-160r^7R^7+791l^6R^8-36089l^4r^2R^8+16148l^2r^4R^8-1328r^6R^8-17774l^4rR^9+39486l^2r^3R^9-5888r^5R^9-596l^4R^{10}+39820l^2r^2R^{10}-14920r^4R^{10}+14672l^2rR^{11}-21344r^3R^{11}+80l^2R^{12}-15740r^2R^{12}-4576rR^{13}+64R^{14}\right)\Big/$$
$$\left(\left(l^2-rR-4R^2\right)^2\left(l^4+2l^2r^2+r^4-8l^2rR+8r^3R-8l^2R^2+24r^2R^2+32rR^3+13R^4\right)^2\right)\}$$

$$\{X77,\ \text{ISOGONAL CONJUGATE OF } X(33),\ X94,\ \text{ISOGONAL CONJUGATE OF } X(50),$$
$$\big(l^{14}+5\,l^{12}r^2+10\,l^{10}r^4+10\,l^8r^6+5\,l^6r^8+l^4r^{10}-28\,l^{12}r\,R-72\,l^{10}r^3R-48\,l^8r^5R+$$
$$8\,l^6r^7R+12\,l^4r^9R-20\,l^{12}R^2+140\,l^{10}r^2R^2+284\,l^8r^4R^2-60\,l^6r^6R^2+72\,l^4r^8R^2+$$
$$532\,l^{10}r\,R^3+116\,l^8r^3R^3-596\,l^6r^5R^3+332\,l^4r^7R^3+166\,l^{10}R^4-3186\,l^8r^2R^4-$$
$$1550\,l^6r^4R^4+1266\,l^4r^6R^4-24\,l^2r^8R^4-4140\,l^8r\,R^5+7080\,l^6r^3R^5+2300\,l^4r^5R^5-$$
$$216\,l^2r^7R^5-732\,l^8R^6+22584\,l^6r^2R^6-8644\,l^4r^4R^6+276\,l^2r^6R^6-36\,r^8R^6+16860\,l^6r\,R^7-$$
$$49276\,l^4r^3R^7+10992\,l^2r^5R^7-720\,r^7R^7+1809\,l^6R^8-74499\,l^4r^2R^8+54792\,l^2r^4R^8-$$
$$5976\,r^6R^8-37800\,l^4r\,R^9+118824\,l^2r^3R^9-26496\,r^5R^9-2376\,l^4R^{10}+117324\,l^2r^2R^{10}-$$
$$67140\,r^4R^{10}+44064\,l^2r\,R^{11}-96048\,r^3R^{11}+1296\,l^2R^{12}-70848\,r^2R^{12}-20736\,r\,R^{13}\big)\Big/$$
$$\big((l^2-r\,R-4\,R^2)^2\,(l^4+2\,l^2r^2+r^4-8\,l^2r\,R+8\,r^3R-12\,l^2R^2+28\,r^2R^2+48\,r\,R^3+27\,R^4)^2\big)\}$$

$$\{X77,\ \text{ISOGONAL CONJUGATE OF } X(33),\ X95,\ \text{CEVAPOINT OF CENTROID AND CIRCUMCENTER},$$
$$\big(l^4\,(l^{10}+21\,l^8r^2+58\,l^6r^4+58\,l^4r^6+21\,l^2r^8+r^{10}-28\,l^8r\,R-408\,l^6r^3R-$$
$$576\,l^4r^5R+344\,l^2r^7R+28\,r^9R-16\,l^8R^2-40\,l^6r^2R^2+1848\,l^4r^4R^2+296\,l^2r^6R^2+$$
$$216\,r^8R^2+400\,l^6r\,R^3+3472\,l^4r^3R^3-1744\,l^2r^5R^3+816\,r^7R^3+96\,l^6R^4-1328\,l^4r^2R^4-$$
$$14464\,l^2r^4R^4+3344\,r^6R^4-2112\,l^4r\,R^5-8576\,l^2r^3R^5+13760\,r^5R^5-256\,l^4R^6+$$
$$7168\,l^2r^2R^6+24832\,r^4R^6+4864\,l^2r\,R^7+4864\,r^3R^7+256\,l^2R^8-10240\,r^2R^8-4096\,r\,R^9)\big)\Big/$$
$$\big((l^2-r\,R-4\,R^2)^2\,(l^4+18\,l^2r^2+r^4-8\,l^2r\,R+8\,r^3R-4\,l^2R^2+20\,r^2R^2+16\,r\,R^3)^2\big)\}$$

$$\{X77,\ \text{ISOGONAL CONJUGATE OF } X(33),\ X96,\ \text{ISOGONAL CONJUGATE OF } X(52),$$
$$-\big((l^{14}-11\,l^{12}r^2-38\,l^{10}r^4-38\,l^8r^6-11\,l^6r^8+l^4r^{10}-26\,l^{12}r\,R+206\,l^{10}r^3R+420\,l^8r^5R-$$
$$268\,l^6r^7R+54\,l^4r^9R-2\,l^2r^{11}R-20\,l^{12}R^2+476\,l^{10}r^2R^2-840\,l^8r^4R^2-1048\,l^6r^6R^2+$$
$$508\,l^4r^8R^2-36\,l^2r^{10}R^2+432\,l^{10}r\,R^3-4536\,l^8r^3R^3+520\,l^6r^5R^3+1656\,l^4r^7R^3-$$
$$248\,l^2r^9R^3+168\,l^{10}R^4-5252\,l^8r^2R^4+17608\,l^6r^4R^4-1872\,l^4r^6R^4-464\,l^2r^8R^4-$$
$$12\,r^{10}R^4-2928\,l^8r\,R^5+33568\,l^6r^3R^5-31920\,l^4r^5R^5+4384\,l^2r^7R^5-288\,r^9R^5-768\,l^8R^6+$$
$$25760\,l^6r^2R^6-94464\,l^4r^4R^6+35488\,l^2r^6R^6-2944\,r^8R^6+10368\,l^6r\,R^7-111392\,l^4r^3R^7+$$
$$116768\,l^2r^5R^7-16640\,r^7R^7+2064\,l^6R^8-64112\,l^4r^2R^8+197568\,l^2r^4R^8-56448\,r^6R^8-$$
$$20256\,l^4r\,R^9+171424\,l^2r^3R^9-116736\,r^5R^9-3264\,l^4R^{10}+79424\,l^2r^2R^{10}-143488\,r^4R^{10}+$$
$$20736\,l^2r\,R^{11}-99840\,r^3R^{11}+2816\,l^2R^{12}-38976\,r^2R^{12}-8704\,r\,R^{13}-1024\,R^{14})\Big/$$
$$\big((l^2-r\,R-4\,R^2)^2\,(l^4-14\,l^2r^2+r^4-8\,l^2r\,R+8\,r^3R+16\,r^2R^2-4\,R^4)^2\big)\big)\}$$

$$\{X77,\ \text{ISOGONAL CONJUGATE OF } X(33),\ X97,\ \text{ISOGONAL CONJUGATE OF } X(53),$$
$$\big(R\,(6\,l^{10}r^3-44\,l^8r^5+56\,l^6r^7-20\,l^4r^9+2\,l^2r^{11}+11\,l^{10}r^2R-163\,l^8r^4R+444\,l^6r^6R-$$
$$292\,l^4r^8R+49\,l^2r^{10}R-r^{12}R+6\,l^{10}r\,R^2-322\,l^8r^3R^2+1786\,l^6r^5R^2-2002\,l^4r^7R^2+$$
$$560\,l^2r^9R^2-28\,r^{11}R^2+l^{10}R^3-297\,l^8r^2R^3+3775\,l^6r^4R^3-8091\,l^4r^6R^3+3792\,l^2r^8R^3-$$
$$348\,r^{10}R^3-120\,l^8r\,R^4+4536\,l^6r^3R^4-20024\,l^4r^5R^4+16376\,l^2r^7R^4-2528\,r^9R^4-$$
$$16\,l^8R^5+2956\,l^6r^2R^5-30204\,l^4r^4R^5+46260\,l^2r^6R^5-11892\,r^8R^5+928\,l^6r\,R^6-$$
$$27280\,l^4r^3R^6+85632\,l^2r^5R^6-37904\,r^7R^6+96\,l^6R^7-13936\,l^4r^2R^7+102096\,l^2r^4R^7-$$
$$83168\,r^6R^7-3456\,l^4r\,R^8+75264\,l^2r^3R^8-124928\,r^5R^8-256\,l^4R^9+31552\,l^2r^2R^9-$$
$$124992\,r^4R^9+6144\,l^2r\,R^{10}-78592\,r^3R^{10}+256\,l^2R^{11}-27648\,r^2R^{11}-4096\,r\,R^{12})\big)\Big/$$
$$\big((l^2-r\,R-4\,R^2)^2\,(l^4-6\,l^2r^2+r^4-8\,l^2r\,R+8\,r^3R-7\,l^2R^2+23\,r^2R^2+28\,r\,R^3+12\,R^4)^2\big)\}$$

$$\{X77,\ \text{ISOGONAL CONJUGATE OF } X(33),\ X98,\ \text{TarryPoint},$$
$$-\frac{1}{(l^2-r\,R-4\,R^2)^2\,(l^4-14\,l^2r^2+r^4-8\,l^2r\,R+8\,r^3R+16\,r^2R^2)}$$
$$\big(l^{10}+3\,l^8r^2+3\,l^6r^4+l^4r^6-18\,l^8r\,R-30\,l^6r^3R+18\,l^4r^5R-2\,l^2r^7R-$$
$$12\,l^8R^2+76\,l^6r^2R^2+52\,l^4r^4R^2-20\,l^2r^6R^2+176\,l^6r\,R^3-16\,l^4r^3R^3-64\,l^2r^5R^3+$$
$$48\,l^6R^4-708\,l^4r^2R^4+24\,l^2r^4R^4-4\,r^6R^4-544\,l^4r\,R^5+736\,l^2r^3R^5-64\,r^5R^5-$$
$$64\,l^4R^6+1664\,l^2r^2R^6-384\,r^4R^6+512\,l^2r\,R^7-1024\,r^3R^7-1024\,r^2R^8)\}$$

$$\{X77,\ \text{ISOGONAL CONJUGATE OF } X(33),\ X99,$$
$$\text{STEINER POINT},\ \big(l^4\,(l^6+3\,l^4r^2+3\,l^2r^4+r^6-20\,l^4r\,R-12\,r^5R-8\,l^4R^2+$$
$$40\,l^2r^2R^2-32\,r^4R^2+144\,l^2r\,R^3-48\,r^3R^3+16\,l^2R^4-192\,r^2R^4-256\,r\,R^5)\big)\Big/$$
$$\big((l^2-r\,R-4\,R^2)^2\,(l^4-14\,l^2r^2+r^4-8\,l^2r\,R+8\,r^3R+16\,r^2R^2)\big)\}$$

$$\{X77,\ \text{ISOGONAL CONJUGATE OF } X(33),\ X100,\ \text{ANTICOMPLEMENT OF FEUERBACH POINT},$$
$$\left(R\left(-l^6-3l^4r^2+2l^2r^4+20l^4rR+8l^4R^2-40l^2r^2R^2+4r^4R^2-144l^2rR^3+48r^3R^3-16l^2R^4+192r^2R^4+256rR^5\right)\right)\Big/\left((2r-R)\left(-l^2+rR+4R^2\right)^2\right)\}$$

$$\{X78,\ \text{ISOGONAL CONJUGATE OF } X(34),\ X79,\ \text{ISOGONAL CONJUGATE OF } X(35),$$
$$\frac{-8l^2r^4+8r^6+12l^2r^3R+44r^5R-6l^2r^2R^2+54r^4R^2+18l^2rR^3-66r^3R^3+9l^2R^4-171r^2R^4-144rR^5}{(r-R)^2(2r+3R)^2}\}$$

$$\{X78,\ \text{ISOGONAL CONJUGATE OF } X(34),\ X80,\ \text{REFLECTION OF INCENTER IN FEUERBACH POINT},$$
$$\frac{8r^5+2l^2r^2R-2r^4R-28r^3R^2-l^2R^3-5r^2R^3+16rR^4}{(r-R)^2(2r-R)}\}$$

$$\{X78,\ \text{ISOGONAL CONJUGATE OF } X(34),\ X81,\ \text{CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},$$
$$-\frac{R\left(2l^4r^3-2l^2r^5+4r^7-l^6R-3l^4r^2R-10l^2r^4R+20r^6R+16l^4rR^2-36l^2r^3R^2+24r^5R^2-4r^4R^3\right)}{(r-R)^2\left(-l^2+r^2+rR\right)^2}\}$$

$$\{X78,\ \text{ISOGONAL CONJUGATE OF } X(34),\ X82,\ \text{ISOGONAL CONJUGATE OF } X(38),$$
$$-\frac{1}{(r-R)^2\left(l^4-4l^2r^2+3r^4-9l^2rR+19r^3R+28r^2R^2\right)^2}$$
$$R\left(4l^8r^3-20l^6r^5+52l^4r^7-44l^2r^9+8r^{11}-l^{10}R+l^8r^2R-67l^6r^4R+255l^4r^6R-384l^2r^8R+124r^{10}R+32l^8rR^2-108l^6r^3R^2+664l^4r^5R^2-1444l^2r^7R^2+824r^9R^2-360l^6r^2R^3+1304l^4r^4R^3-3504l^2r^6R^3+3104r^8R^3+1984l^4r^3R^4-5904l^2r^5R^4+7184r^7R^4-5520l^2r^4R^5+9856r^6R^5+6400r^5R^6\right)\}$$

$$\{X78,\ \text{ISOGONAL CONJUGATE OF } X(34),\ X83,\ \text{CEVAPOINT OF CENTROID AND SYMMEDIAN POINT},$$
$$\frac{1}{(r-R)^2\left(5l^4-6l^2r^2+5r^4-40l^2rR+40r^3R+80r^2R^2\right)^2}$$
$$\left(l^{10}r^2-3l^8r^4-6l^6r^6+10l^4r^8+21l^2r^{10}+9r^{12}+8l^{10}rR-36l^8r^3R+200l^6r^5R-224l^4r^7R+176l^2r^9R+132r^{11}R+16l^{10}R^2-216l^8r^2R^2+520l^6r^4R^2-1288l^4r^6R^2+808l^2r^8R^2+544r^{10}R^2-480l^8rR^3+2960l^6r^3R^3-5840l^4r^5R^3+5808l^2r^7R^3-1040r^9R^3+4752l^6r^2R^4-19808l^4r^4R^4+28688l^2r^6R^4-15360r^8R^4-21376l^4r^3R^5+61312l^2r^5R^5-49664r^7R^5+45312l^2r^4R^6-69632r^6R^6-36864r^5R^7\right)\}$$

$$\{X78,\ \text{ISOGONAL CONJUGATE OF } X(34),\ X84,\ \text{ISOGONAL CONJUGATE OF } X(40),$$
$$-\frac{R\left(-6l^2r^3+2r^5+13l^2r^2R+9r^4R-12l^2rR^2+4l^2R^3-16r^2R^3+32rR^4-16R^5\right)}{r^2(r-R)^2}\}$$

$$\{X78,\ \text{ISOGONAL CONJUGATE OF } X(34),\ X85,\ \text{ISOTOMIC CONJUGATE OF } X(9),$$
$$\left(l^6r^2+3l^4r^4+3l^2r^6+r^8-20l^4r^3R+32l^2r^5R+20r^7R+24l^4r^2R^2+72l^2r^4R^2+160r^6R^2+32l^4rR^3-176l^2r^3R^3+624r^5R^3-496l^2r^2R^4+1024r^4R^4+384l^2rR^5-512r^3R^5+256l^2R^6-4096r^2R^6-4096rR^7\right)\Big/\left((r-R)^2\left(l^2+r^2+8rR+16R^2\right)^2\right)\}$$

$$\{X78,\ \text{ISOGONAL CONJUGATE OF } X(34),\ X86,\ \text{CEVAPOINT OF INCENTER AND CENTROID},$$
$$\left(l^6r^2+3l^4r^4+3l^2r^6+r^8+8l^6rR+20l^4r^3R+56l^2r^5R+12r^7R+16l^6R^2-24l^4r^2R^2+88l^2r^4R^2+48r^6R^2-224l^4rR^3-176l^2r^3R^3+48r^5R^3-496l^2r^2R^4-128r^4R^4-256r^3R^5\right)\Big/\left((r-R)^2\left(5l^2+r^2+4rR\right)^2\right)\}$$

$$\{X78,\ \text{ISOGONAL CONJUGATE OF } X(34),\ X87,\ X(2)\text{-CROSS CONJUGATE OF } X(1),$$
$$-\Big(\Big(R^2\left(-l^{10}-l^8r^2-10l^6r^4+30l^4r^6+91l^2r^8+51r^{10}+48l^8rR+288l^4r^5R-1024l^2r^7R+688r^9R-800l^6r^2R^2+736l^4r^4R^2-2272l^2r^6R^2+3360r^8R^2+5120l^4r^3R^3-8192l^2r^5R^3+7168r^7R^3-8448l^2r^4R^4+6912r^6R^4+4096r^5R^5\right)\Big)\Big/\left((r-R)^2\left(l^4+2l^2r^2+r^4-20l^2rR+12r^3R+32r^2R^2\right)^2\right)\Big)\}$$

$$\{X78,\ \text{ISOGONAL CONJUGATE OF } X(34),\ X88,\ \text{ISOGONAL CONJUGATE OF } X(44),$$
$$-\left(\left(R\left(-6 l^4 r^3-6 l^2 r^5+72 r^7-l^6 R+l^4 r^2 R+162 l^2 r^4 R-108 r^6 R+40 l^4 r R^2-36 l^2 r^3 R^2-936 r^5 R^2-528 l^2 r^2 R^3+252 r^4 R^3+2304 r^3 R^4\right)\right)\Big/\left((r-R)^2\left(l^2+3 r^2-15 r R\right)^2\right)\right)\}$$

$$\{X78,\ \text{ISOGONAL CONJUGATE OF } X(34),\ X89,\ \text{ISOGONAL CONJUGATE OF } X(45),$$
$$-\left(\left(R\left(24 l^4 r^3-84 l^2 r^5+180 r^7-4 l^6 R-8 l^4 r^2 R-81 l^2 r^4 R+567 r^6 R+40 l^4 r R^2-324 l^2 r^3 R^2-180 r^5 R^2+348 l^2 r^2 R^3-1044 r^4 R^3+576 r^3 R^4\right)\right)\Big/\left((r-R)^2\left(-2 l^2+6 r^2-3 r R\right)^2\right)\right)\}$$

$$\{X78,\ \text{ISOGONAL CONJUGATE OF } X(34),\ X90,\ X(3)\text{-CROSS CONJUGATE OF } X(1),$$
$$-\frac{(2 r-R)\,R\left(-3 l^2 r^4+r^6+8 r^5 R-2 l^2 r^2 R^2+22 r^4 R^2+24 r^3 R^3+l^2 R^4+5 r^2 R^4-16 r R^5\right)}{(r-R)^2\left(r^2+2 r R-R^2\right)^2}\}$$

$$\{X78,\ \text{ISOGONAL CONJUGATE OF } X(34),\ X91,\ \text{ISOGONAL CONJUGATE OF } X(47),$$
$$\left((r+R)^2\left(l^6 r^2+3 l^4 r^4+3 l^2 r^6+r^8-2 l^6 r R-22 l^4 r^3 R+18 l^2 r^5 R+6 r^7 R+l^6 R^2+39 l^4 r^2 R^2-29 l^2 r^4 R^2+13 r^6 R^2-16 l^4 r R^3-40 l^2 r^3 R^3+24 r^5 R^3-4 l^4 R^4-12 l^2 r^2 R^4+24 r^4 R^4+72 l^2 r R^5-72 r^3 R^5+4 l^2 R^6-108 r^2 R^6-64 r R^7\right)\right)\Big/\left((r-R)^2\left(l^2 r+r^3-l^2 R+3 r^2 R+2 r R^2+2 R^3\right)^2\right)\}$$

$$\{X78,\ \text{ISOGONAL CONJUGATE OF } X(34),\ X92,\ \text{CEVAPOINT OF INCENTER AND CLAWSON POINT},$$
$$\frac{1}{(r-R)^2\left(l^2+r^2-4 R^2\right)^2} r^2\left(l^6+3 l^4 r^2+3 l^2 r^4+r^6-20 l^4 r R+16 l^2 r^3 R+4 r^5 R+40 l^2 r^2 R^2-8 r^4 R^2+32 l^2 r R^3-64 r^3 R^3-16 l^2 R^4-96 r^2 R^4+64 R^6\right)\}$$

$$\{X78,\ \text{ISOGONAL CONJUGATE OF } X(34),\ X93,\ \text{ISOGONAL CONJUGATE OF } X(49),$$
$$\left(l^{10} r^2+5 l^8 r^4+10 l^6 r^6+10 l^4 r^8+5 l^2 r^{10}+r^{12}-20 l^8 r^3 R-40 l^6 r^5 R+40 l^2 r^9 R+20 r^{11} R-18 l^8 r^2 R^2-4 l^6 r^4 R^2+96 l^4 r^6 R^2+4 l^2 r^8 R^2+178 r^{10} R^2-6 l^8 r R^3+360 l^6 r^3 R^3+292 l^4 r^5 R^3-712 l^2 r^7 R^3+898 r^9 R^3+252 l^6 r^2 R^4-1008 l^4 r^4 R^4-1812 l^2 r^6 R^4+2648 r^8 R^4+74 l^6 r R^5-2994 l^4 r^3 R^5+1094 l^2 r^5 R^5+3842 r^7 R^5+8 l^6 R^6-1918 l^4 r^2 R^6+9776 l^2 r^4 R^6-1114 r^6 R^6-486 l^4 r R^7+13412 l^2 r^3 R^7-15022 r^5 R^7-48 l^4 R^8+6867 l^2 r^2 R^8-26593 r^4 R^8+1362 l^2 r R^9-22010 r^3 R^9+72 l^2 R^{10}-8544 r^2 R^{10}-1232 r R^{11}+4 R^{12}\right)\Big/\left((r-R)^2\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-8 l^2 R^2+24 r^2 R^2+32 r R^3+13 R^4\right)^2\right)\}$$

$$\{X78,\ \text{ISOGONAL CONJUGATE OF } X(34),\ X94,\ \text{ISOGONAL CONJUGATE OF } X(50),$$
$$\left(l^{10} r^2+5 l^8 r^4+10 l^6 r^6+10 l^4 r^8+5 l^2 r^{10}+r^{12}-20 l^8 r^3 R-40 l^6 r^5 R+40 l^2 r^9 R+20 r^{11} R-20 l^8 r^2 R^2-4 l^6 r^4 R^2+108 l^4 r^6 R^2+20 l^2 r^8 R^2+184 r^{10} R^2-12 l^8 r R^3+380 l^6 r^3 R^3+244 l^4 r^5 R^3-700 l^2 r^7 R^3+984 r^9 R^3+406 l^6 r^2 R^4-1146 l^4 r^4 R^4-2006 l^2 r^6 R^4+3130 r^8 R^4+156 l^6 r R^5-3816 l^4 r^3 R^5+1268 l^2 r^5 R^5+4984 r^7 R^5+36 l^6 R^6-3768 l^4 r^2 R^6+13320 l^2 r^4 R^6-1324 r^6 R^6-1476 l^4 r R^7+22764 l^2 r^3 R^7-22888 r^5 R^7-216 l^4 R^8+16785 l^2 r^2 R^8-46683 r^4 R^8+5076 l^2 r R^9-46908 r^3 R^9+324 l^2 R^{10}-24300 r^2 R^{10}-5184 r R^{11}\right)\Big/\left((r-R)^2\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-12 l^2 R^2+28 r^2 R^2+48 r R^3+27 R^4\right)^2\right)\}$$

$$\{X78,\ \text{ISOGONAL CONJUGATE OF } X(34),\ X95,\ \text{CEVAPOINT OF CENTROID AND CIRCUMCENTER},$$
$$\left(r^2\left(l^{10}+21 l^8 r^2+58 l^6 r^4+58 l^4 r^6+21 l^2 r^8+r^{10}-4 l^8 r R+40 l^6 r^3 R-272 l^4 r^5 R+216 l^2 r^7 R+20 r^9 R-16 l^8 R^2-408 l^6 r^2 R^2-1240 l^4 r^4 R^2+600 l^2 r^6 R^2+168 r^8 R^2+208 l^6 r R^3+464 l^4 r^3 R^3-528 l^2 r^5 R^3+752 r^7 R^3+96 l^6 R^4+2128 l^4 r^2 R^4-4864 l^2 r^4 R^4+1808 r^6 R^4-1728 l^4 r R^5-6016 l^2 r^3 R^5+1600 r^5 R^5-256 l^4 R^6+1536 l^2 r^2 R^6-2816 r^4 R^6+4864 l^2 r R^7-9472 r^3 R^7+256 l^2 R^8-10240 r^2 R^8-4096 r R^9\right)\right)\Big/\left((r-R)^2\left(l^4+18 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-4 l^2 R^2+20 r^2 R^2+16 r R^3\right)^2\right)\}$$

$$\left\{X78,\ \text{ISOGONAL CONJUGATE OF } X(34),\ X96,\ \text{ISOGONAL CONJUGATE OF } X(52),\right.$$
$$-\frac{1}{(r-R)^2\left(l^4-14\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R+16\,r^2\,R^2-4\,R^4\right)^2}$$
$$\left(l^{10}\,r^2-11\,l^8\,r^4-38\,l^6\,r^6-38\,l^4\,r^8-11\,l^2\,r^{10}+r^{12}-2\,l^{10}\,r\,R+22\,l^8\,r^3\,R-60\,l^6\,r^5\,R+212\,l^4\,r^7\,R-\right.$$
$$194\,l^2\,r^9\,R+22\,r^{11}\,R+24\,l^8\,r^2\,R^2-256\,l^6\,r^4\,R^2+1536\,l^4\,r^6\,R^2-1312\,l^2\,r^8\,R^2+200\,r^{10}\,R^2+$$
$$32\,l^8\,r\,R^3-584\,l^6\,r^3\,R^3+2904\,l^4\,r^5\,R^3-4216\,l^2\,r^7\,R^3+968\,r^9\,R^3-12\,l^8\,R^4-216\,l^6\,r^2\,R^4+$$
$$2512\,l^4\,r^4\,R^4-6536\,l^2\,r^6\,R^4+2652\,r^8\,R^4+80\,l^6\,r\,R^5+864\,l^4\,r^3\,R^5-4112\,l^2\,r^5\,R^5+3936\,r^7\,R^5+$$
$$64\,l^6\,R^6-576\,l^4\,r^2\,R^6+640\,l^2\,r^4\,R^6+2368\,r^6\,R^6-576\,l^4\,r\,R^7+2464\,l^2\,r^3\,R^7-992\,r^5\,R^7-128\,l^4\,R^8+$$
$$\left.\left.1808\,l^2\,r^2\,R^8-2224\,r^4\,R^8+736\,l^2\,r\,R^9-1248\,r^3\,R^9+128\,l^2\,R^{10}-512\,r^2\,R^{10}-256\,r\,R^{11}-64\,R^{12}\right)\right\}$$

$$\left\{X78,\ \text{ISOGONAL CONJUGATE OF } X(34),\ X97,\ \text{ISOGONAL CONJUGATE OF } X(53),\right.$$
$$-\left(\left(R\left(6\,l^8\,r^3-44\,l^6\,r^5+56\,l^4\,r^7-20\,l^2\,r^9+2\,r^{11}-l^{10}\,R+5\,l^8\,r^2\,R-80\,l^6\,r^4\,R+352\,l^4\,r^6\,R-231\,l^2\,r^8\,R+\right.\right.\right.$$
$$35\,r^{10}\,R+30\,l^8\,r\,R^2-238\,l^6\,r^3\,R^2+962\,l^4\,r^5\,R^2-1154\,l^2\,r^7\,R^2+272\,r^9\,R^2+12\,l^8\,R^3-317\,l^6\,r^2\,R^3+$$
$$1809\,l^4\,r^4\,R^3-3379\,l^2\,r^6\,R^3+1251\,r^8\,R^3-316\,l^6\,r\,R^4+2652\,l^4\,r^3\,R^4-6708\,l^2\,r^5\,R^4+3828\,r^7\,R^4-$$
$$52\,l^6\,R^5+2348\,l^4\,r^2\,R^5-9596\,l^2\,r^4\,R^5+8260\,r^6\,R^5+1184\,l^4\,r\,R^6-9536\,l^2\,r^3\,R^6+12\,832\,r^5\,R^6+96\,l^4$$
$$\left.\left.R^7-5904\,l^2\,r^2\,R^7+14\,160\,r^4\,R^7-1856\,l^2\,r\,R^8+10\,560\,r^3\,R^8-64\,l^2\,R^9+4800\,r^2\,R^9+1024\,r\,R^{10}\right)\right)\Big/$$
$$\left.\left.\left((r-R)^2\left(l^4-6\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-7\,l^2\,R^2+23\,r^2\,R^2+28\,r\,R^3+12\,R^4\right)^2\right)\right)\right\}$$

$$\left\{X78,\ \text{ISOGONAL CONJUGATE OF } X(34),\ X98,\ \text{TarryPoint},\right.$$
$$-\left(\left(l^6\,r^2+3\,l^4\,r^4+3\,l^2\,r^6+r^8-2\,l^6\,r\,R+2\,l^4\,r^3\,R-14\,l^2\,r^5\,R+14\,r^7\,R+16\,l^4\,r^2\,R^2-88\,l^2\,r^4\,R^2+72\,r^6\,R^2+\right.\right.$$
$$\left.\left.16\,l^4\,r\,R^3-144\,l^2\,r^3\,R^3+160\,r^5\,R^3-4\,l^4\,R^4-56\,l^2\,r^2\,R^4+124\,r^4\,R^4+32\,l^2\,r\,R^5-32\,r^3\,R^5-64\,r^2\,R^6\right)\Big/$$
$$\left.\left.\left((r-R)^2\left(l^4-14\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R+16\,r^2\,R^2\right)\right)\right)\right\}$$

$$\left\{X78,\ \text{ISOGONAL CONJUGATE OF } X(34),\ X99,\ \text{STEINER POINT},\right.$$
$$\left(r^2\left(l^6+3\,l^4\,r^2+3\,l^2\,r^4+r^6-28\,l^4\,r\,R+16\,l^2\,r^3\,R+12\,r^5\,R-8\,l^4\,R^2+56\,l^2\,r^2\,R^2+48\,r^4\,R^2+176\,l^2\,r\,R^3+\right.\right.$$
$$\left.\left.48\,r^3\,R^3+16\,l^2\,R^4-128\,r^2\,R^4-256\,r\,R^5\right)\right)\Big/\left((r-R)^2\left(l^4-14\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R+16\,r^2\,R^2\right)\right)\Big\}$$

$$\left\{X78,\ \text{ISOGONAL CONJUGATE OF } X(34),\ X100,\right.$$
$$\text{ANTICOMPLEMENT OF FEUERBACH POINT},\ -\frac{r^2\,R\left(-l^2+3\,r^2+4\,r\,R+4\,R^2\right)}{(r-R)^2\,(2\,r-R)}\Big\}$$

$$\left\{X79,\ \text{ISOGONAL CONJUGATE OF } X(35),\ X80,\right.$$
$$\text{REFLECTION OF INCENTER IN FEUERBACH POINT},\ -\frac{16\,r^2\,R\left(-2\,l^2+2\,r^2+8\,r\,R+9\,R^2\right)}{(2\,r-R)\,(2\,r+3\,R)^2}\Big\}$$

$$\left\{X79,\ \text{ISOGONAL CONJUGATE OF } X(35),\ X81,\ \text{CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},\right.$$
$$-\left(\left(r^2\left(8\,l^6-32\,l^4\,r^2+24\,l^2\,r^4-56\,l^4\,r\,R+80\,l^2\,r^3\,R+8\,r^5\,R-30\,l^4\,R^2+108\,l^2\,r^2\,R^2+74\,r^4\,R^2+\right.\right.\right.$$
$$\left.\left.\left.48\,l^2\,r\,R^3+240\,r^3\,R^3-9\,l^2\,R^4+315\,r^2\,R^4+144\,r\,R^5\right)\right)\Big/\left((2\,r+3\,R)^2\left(-l^2+r^2+r\,R\right)^2\right)\right)\Big\}$$

$$\left\{X79,\ \text{ISOGONAL CONJUGATE OF } X(35),\ X82,\ \text{ISOGONAL CONJUGATE OF } X(38),\right.$$
$$\frac{1}{(2\,r+3\,R)^2\left(l^4-4\,l^2\,r^2+3\,r^4-9\,l^2\,r\,R+19\,r^3\,R+28\,r^2\,R^2\right)^2}$$
$$r^2\left(-8\,l^{10}+88\,l^8\,r^2-304\,l^6\,r^4+400\,l^4\,r^6-200\,l^2\,r^8+24\,r^{10}+196\,l^8\,r\,R-1528\,l^6\,r^3\,R+3456\,l^4\,r^5\,R-\right.$$
$$2568\,l^2\,r^7\,R+444\,r^9\,R+30\,l^8\,R^2-2148\,l^6\,r^2\,R^2+10\,272\,l^4\,r^4\,R^2-12\,636\,l^2\,r^6\,R^2+3330\,r^8\,R^2-$$
$$582\,l^6\,r\,R^3+11\,918\,l^4\,r^3\,R^3-29\,234\,l^2\,r^5\,R^3+12\,794\,r^7\,R^3+9\,l^6\,R^4+3891\,l^4\,r^2\,R^4-30\,357\,l^2\,r^4\,R^4+$$
$$\left.25\,729\,r^6\,R^4-288\,l^4\,r\,R^5-8760\,l^2\,r^3\,R^5+22\,760\,r^5\,R^5+2880\,l^2\,r^2\,R^6-240\,r^4\,R^6-9216\,r^3\,R^7\right)\Big\}$$

$$\left\{X79,\ \text{ISOGONAL CONJUGATE OF } X(35),\ X83,\ \text{CEVAPOINT OF CENTROID AND SYMMEDIAN POINT},\right.$$
$$\frac{1}{(2r+3R)^2\left(5l^4-6l^2r^2+5r^4-40l^2rR+40r^3R+80r^2R^2\right)^2}$$
$$\left(-176l^{10}r^2+784l^8r^4-1440l^6r^6+1248l^4r^8-432l^2r^{10}+16r^{12}+42l^{10}rR+3378l^8r^3R-\right.$$
$$11836l^6r^5R+14788l^4r^7R-6606l^2r^9R+298r^{11}R+9l^{10}R^2-507l^8r^2R^2-24534l^6r^4R^2+$$
$$58938l^4r^6R^2-37923l^2r^8R^2+2001r^{10}R^2-360l^8rR^3+1944l^6r^3R^3+78200l^4r^5R^3-$$
$$\left.\left.94968l^2r^7R^3+4240r^9R^3+5328l^6r^2R^4-11904l^4r^4R^4-70128l^2r^6R^4-14240r^8R^4-\right.\right.$$
$$\left.\left.36864l^4r^3R^5+90624l^2r^5R^5-97536r^7R^5+119808l^2r^4R^6-200448r^6R^6-147456r^5R^7\right)\right\}$$

$$\left\{X79,\ \text{ISOGONAL CONJUGATE OF } X(35),\ X84,\ \text{ISOGONAL CONJUGATE OF } X(40),\right.$$
$$\left.-\frac{4(r+R)^2\left(4l^2r^2-15l^2rR+5r^3R+9l^2R^2+26r^2R^2+24rR^3-36R^4\right)}{r^2(2r+3R)^2}\right\}$$

$$\left\{X79,\ \text{ISOGONAL CONJUGATE OF } X(35),\ X85,\ \text{ISOTOMIC CONJUGATE OF } X(9),\right.$$
$$\left(R\left(18l^6r-90l^4r^3+22l^2r^5+2r^7+9l^6R-309l^4r^2R+171l^2r^4R+41r^6R-120l^4rR^2+312l^2r^3R^2+\right.\right.$$
$$\left.\left.\left.336r^5R^2-80l^2r^2R^3+1376r^4R^3+2816r^3R^4+2304r^2R^5\right)\right)\Big/\left((2r+3R)^2\left(l^2+r^2+8rR+16R^2\right)^2\right)\right\}$$

$$\left\{X79,\ \text{ISOGONAL CONJUGATE OF } X(35),\ X86,\ \text{CEVAPOINT OF INCENTER AND CENTROID},\right.$$
$$\left(-176l^6r^2+96l^4r^4+16l^2r^6+42l^6rR+214l^4r^3R+174l^2r^5R+2r^7R+9l^6R^2+459l^4r^2R^2+539l^2r^4\right.$$
$$\left.\left.R^2+25r^6R^2-144l^4rR^3+696l^2r^3R^3+104r^5R^3+144r^4R^4\right)\Big/\left((2r+3R)^2\left(5l^2+r^2+4rR\right)^2\right)\right\}$$

$$\left\{X79,\ \text{ISOGONAL CONJUGATE OF } X(35),\ X87,\ X(2)\text{-CROSS CONJUGATE OF } X(1),\right.$$
$$\frac{1}{(2r+3R)^2\left(l^4+2l^2r^2+r^4-20l^2rR+12r^3R+32r^2R^2\right)^2}$$
$$4r^2\left(-2l^{10}-6l^8r^2-4l^6r^4+4l^4r^6+6l^2r^8+2r^{10}+84l^8rR+48l^6r^3R-104l^4r^5R-\right.$$
$$16l^2r^7R+52r^9R+3l^8R^2-1084l^6r^2R^2+1402l^4r^4R^2-1100l^2r^6R^2+507r^8R^2-$$
$$108l^6rR^3+4444l^4r^3R^3-5380l^2r^5R^3+2356r^7R^3+36l^6R^4+1164l^4r^2R^4-8148l^2r^4R^4+$$
$$\left.\left.5060r^6R^4-864l^4rR^5-576l^2r^3R^5+2336r^5R^5+5184l^2r^2R^6-7872r^4R^6-9216r^3R^7\right)\right\}$$

$$\left\{X79,\ \text{ISOGONAL CONJUGATE OF } X(35),\ X88,\ \text{ISOGONAL CONJUGATE OF } X(44),\right.$$
$$-\left(\left(r^2\left(8l^6+64l^4r^2+120l^2r^4-224l^4rR-912l^2r^3R+144r^5R-18l^4R^2+1596l^2r^2R^2+558r^4R^2+\right.\right.\right.$$
$$\left.\left.\left.468l^2rR^3-828r^3R^3-81l^2R^4-3429r^2R^4+1296rR^5\right)\right)\Big/\left((2r+3R)^2\left(l^2+3r^2-15rR\right)^2\right)\right)\right\}$$

$$\left\{X79,\ \text{ISOGONAL CONJUGATE OF } X(35),\ X89,\ \text{ISOGONAL CONJUGATE OF } X(45),\right.$$
$$-\left(\left(r^2\left(32l^6-320l^4r^2+672l^2r^4-152l^4rR+336l^2r^3R+360r^5R-108l^4R^2+168l^2r^2R^2+2772r^4R^2-\right.\right.\right.$$
$$\left.\left.\left.306l^2rR^3+6678r^3R^3-81l^2R^4+4995r^2R^4+1296rR^5\right)\right)\Big/\left((2r+3R)^2\left(-2l^2+6r^2-3rR\right)^2\right)\right)\right\}$$

$$\left\{X79,\ \text{ISOGONAL CONJUGATE OF } X(35),\ X90,\ X(3)\text{-CROSS CONJUGATE OF } X(1),\right.$$
$$\left.-\frac{4r^2(r+2R)^2\left(4l^2r^2-9l^2rR+3r^3R+2l^2R^2+19r^2R^2+28rR^3-9R^4\right)}{(2r+3R)^2\left(r^2+2rR-R^2\right)^2}\right\}$$

$$\left\{X79,\ \text{ISOGONAL CONJUGATE OF } X(35),\ X91,\ \text{ISOGONAL CONJUGATE OF } X(47),\right.$$
$$-\left(\left(r^2R\left(-30l^6r+70l^4r^3-26l^2r^5+2r^7+5l^6R+215l^4r^2R-209l^2r^4R+29r^6R+216l^4rR^2-\right.\right.\right.$$
$$\left.\left.\left.664l^2r^3R^2+176r^5R^2-56l^4R^3-912l^2r^2R^3+568r^4R^3-416l^2rR^4+1008r^3R^4+164l^2R^5+\right.\right.\right.$$
$$\left.\left.\left.884r^2R^5+208rR^6-144R^7\right)\right)\Big/\left((2r+3R)^2\left(l^2r+r^3-l^2R+3r^2R+2rR^2+2R^3\right)^2\right)\right)\right\}$$

$$\left\{X79,\ \text{ISOGONAL CONJUGATE OF } X(35),\ X92,\ \text{CEVAPOINT OF INCENTER AND CLAWSON POINT},\right.$$
$$-\left(\left(R\left(-18l^6r+42l^4r^3-54l^2r^5+14r^7-9l^6R+237l^4r^2R-411l^2r^4R+175r^6R+\right.\right.\right.$$
$$\left.\left.\left.360l^4rR^2-1368l^2r^3R^2+928r^5R^2+72l^4R^3-2352l^2r^2R^3+2744r^4R^3-1728l^2rR^4+\right.\right.\right.$$
$$\left.\left.\left.4896r^3R^4-144l^2R^5+5040r^2R^5+2304rR^6\right)\right)\Big/\left((2r+3R)^2\left(l^2+r^2-4R^2\right)^2\right)\right)\right\}$$

$$\{X79,\ \text{ISOGONAL CONJUGATE OF } X(35),\ X93,\ \text{ISOGONAL CONJUGATE OF } X(49),$$
$$\big(R\,(18\,l^{10}\,r+42\,l^8\,r^3+20\,l^6\,r^5-12\,l^4\,r^7-6\,l^2\,r^9+2\,r^{11}+9\,l^{10}\,R-315\,l^8\,r^2\,R-502\,l^6\,r^4\,R+$$
$$538\,l^4\,r^6\,R-259\,l^2\,r^8\,R+49\,r^{10}\,R-432\,l^8\,r\,R^2+1128\,l^6\,r^3\,R^2+2776\,l^4\,r^5\,R^2-2376\,l^2\,r^7\,R^2+$$
$$504\,r^9\,R^2-90\,l^8\,R^3+4244\,l^6\,r^2\,R^3+1752\,l^4\,r^4\,R^3-9204\,l^2\,r^6\,R^3+2850\,r^8\,R^3+2868\,l^6\,r\,R^4-$$
$$10\,308\,l^4\,r^3\,R^4-15\,812\,l^2\,r^5\,R^4+9652\,r^7\,R^4+288\,l^6\,R^5-16\,932\,l^4\,r^2\,R^5-5208\,l^2\,r^4\,R^5+$$
$$19\,692\,r^6\,R^5-7524\,l^4\,r\,R^6+19\,200\,l^2\,r^3\,R^6+22\,116\,r^5\,R^6-306\,l^4\,R^7+23\,544\,l^2\,r^2\,R^7+$$
$$8026\,r^4\,R^7+8082\,l^2\,r\,R^8-9054\,r^3\,R^8+63\,l^2\,R^9-10\,397\,r^2\,R^9-3012\,r\,R^{10}+36\,R^{11})\big)\,/$$
$$\big((2\,r+3\,R)^2\,(l^4+2\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-8\,l^2\,R^2+24\,r^2\,R^2+32\,r\,R^3+13\,R^4)^2\big)\}$$

$$\{X79,\ \text{ISOGONAL CONJUGATE OF } X(35),\ X94,\ \text{ISOGONAL CONJUGATE OF } X(50),$$
$$\big(R\,(-3\,l^2+r^2+6\,r\,R+9\,R^2)^2\,(2\,l^6\,r+6\,l^4\,r^3+6\,l^2\,r^5+2\,r^7+l^6\,R-$$
$$21\,l^4\,r^2\,R-45\,l^2\,r^4\,R+41\,r^6\,R-36\,l^4\,r\,R^2-24\,l^2\,r^3\,R^2+204\,r^5\,R^2-6\,l^4\,R^3+$$
$$156\,l^2\,r^2\,R^3+386\,r^4\,R^3+138\,l^2\,r\,R^4+170\,r^3\,R^4+9\,l^2\,R^5-195\,r^2\,R^5-144\,r\,R^6)\big)\,/$$
$$\big((2\,r+3\,R)^2\,(l^4+2\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-12\,l^2\,R^2+28\,r^2\,R^2+48\,r\,R^3+27\,R^4)^2\big)\}$$

$$\{X79,\ \text{ISOGONAL CONJUGATE OF } X(35),\ X95,\ \text{CEVAPOINT OF CENTROID AND CIRCUMCENTER},$$
$$\big(-192\,l^8\,r^4-3392\,l^6\,r^6+960\,l^4\,r^8+64\,l^2\,r^{10}+18\,l^{10}\,r\,R+234\,l^8\,r^3\,R+340\,l^6\,r^5\,R+$$
$$5172\,l^4\,r^7\,R+954\,l^2\,r^9\,R+2\,r^{11}\,R+9\,l^{10}\,R^2-195\,l^8\,r^2\,R^2-1622\,l^6\,r^4\,R^2+8170\,l^4\,r^6\,R^2+$$
$$5533\,l^2\,r^8\,R^2+41\,r^{10}\,R^2-360\,l^8\,r\,R^3-1368\,l^6\,r^3\,R^3+5992\,l^4\,r^5\,R^3+15\,544\,l^2\,r^7\,R^3+$$
$$352\,r^9\,R^3-72\,l^8\,R^4+2784\,l^6\,r^2\,R^4+11\,776\,l^4\,r^4\,R^4+20\,544\,l^2\,r^6\,R^4+1640\,r^8\,R^4+$$
$$1728\,l^6\,r\,R^5-960\,l^4\,r^3\,R^5+8192\,l^2\,r^5\,R^5+4480\,r^7\,R^5+144\,l^6\,R^6-7440\,l^4\,r^2\,R^6-$$
$$4496\,l^2\,r^4\,R^6+7184\,r^6\,R^6-2304\,l^4\,r\,R^7-1920\,l^2\,r^3\,R^7+6272\,r^5\,R^7+2304\,r^4\,R^8)\,/$$
$$\big((2\,r+3\,R)^2\,(l^4+18\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-4\,l^2\,R^2+20\,r^2\,R^2+16\,r\,R^3)^2\big)\}$$

$$\{X79,\ \text{ISOGONAL CONJUGATE OF } X(35),\ X96,\ \text{ISOGONAL CONJUGATE OF } X(52),$$
$$\frac{1}{(2\,r+3\,R)^2\,(l^4-14\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R+16\,r^2\,R^2-4\,R^4)^2}$$
$$\big(-24\,l^{10}\,r^2+488\,l^8\,r^4-2224\,l^6\,r^6+1168\,l^4\,r^8-184\,l^2\,r^{10}+8\,r^{12}-30\,l^{10}\,r\,R+922\,l^8\,r^3\,R-6348\,l^6\,r^5\,R+$$
$$10\,196\,l^4\,r^7\,R-2806\,l^2\,r^9\,R+178\,r^{11}\,R-9\,l^{10}\,R^2+867\,l^8\,r^2\,R^2-11\,626\,l^6\,r^4\,R^2+33\,686\,l^4\,r^6\,R^2-$$
$$17\,629\,l^2\,r^8\,R^2+1719\,r^{10}\,R^2+468\,l^8\,r\,R^3-12\,216\,l^6\,r^3\,R^3+59\,296\,l^4\,r^5\,R^3-59\,848\,l^2\,r^7\,R^3+$$
$$9484\,r^9\,R^3+108\,l^8\,R^4-7336\,l^6\,r^2\,R^4+71\,504\,l^4\,r^4\,R^4-123\,576\,l^2\,r^6\,R^4+33\,252\,r^8\,R^4-2688\,l^6\,r\,R^5+$$
$$55\,216\,l^4\,r^3\,R^5-170\,272\,l^2\,r^5\,R^5+78\,512\,r^7\,R^5-504\,l^6\,R^6+25\,544\,l^4\,r^2\,R^6-164\,872\,l^2\,r^4\,R^6+$$
$$129\,976\,r^6\,R^6+7296\,l^4\,r\,R^7-104\,032\,l^2\,r^3\,R^7+154\,400\,r^5\,R^7+1152\,l^4\,R^8-39\,968\,l^2\,r^2\,R^8+$$
$$129\,056\,r^4\,R^8-9504\,l^2\,r\,R^9+70\,176\,r^3\,R^9-1296\,l^2\,R^{10}+23\,344\,r^2\,R^{10}+4800\,r\,R^{11}+576\,R^{12})\}$$

$$\{X79,\ \text{ISOGONAL CONJUGATE OF } X(35),\ X97,\ \text{ISOGONAL CONJUGATE OF } X(53),$$
$$-\big((8\,l^{10}\,r^2-128\,l^8\,r^4+528\,l^6\,r^6-320\,l^4\,r^8+40\,l^2\,r^{10}-188\,l^8\,r^3\,R+1712\,l^6\,r^5\,R-2664\,l^4\,r^7\,R+$$
$$560\,l^2\,r^9\,R+4\,r^{11}\,R-132\,l^8\,r^2\,R^2+2776\,l^6\,r^4\,R^2-8752\,l^4\,r^6\,R^2+3272\,l^2\,r^8\,R^2+84\,r^{10}\,R^2+$$
$$6\,l^8\,r\,R^3+2116\,l^6\,r^3\,R^3-14\,656\,l^4\,r^5\,R^3+10\,252\,l^2\,r^7\,R^3+778\,r^9\,R^3+638\,l^6\,r^2\,R^4-13\,566\,l^4\,r^4\,R^4+$$
$$18\,266\,l^2\,r^6\,R^4+4182\,r^8\,R^4-114\,l^6\,r\,R^5-5954\,l^4\,r^3\,R^5+17\,330\,l^2\,r^5\,R^5+14\,434\,r^7\,R^5-9\,l^6\,R^6-$$
$$27\,l^4\,r^2\,R^6+4801\,l^2\,r^4\,R^6+33\,379\,r^6\,R^6+840\,l^4\,r\,R^7-6688\,l^2\,r^3\,R^7+52\,280\,r^5\,R^7+72\,l^4\,R^8-$$
$$7312\,l^2\,r^2\,R^8+54\,632\,r^4\,R^8-2496\,l^2\,r\,R^9+36\,352\,r^3\,R^9-144\,l^2\,R^{10}+13\,872\,r^2\,R^{10}+2304\,r\,R^{11})\,/$$
$$\big((2\,r+3\,R)^2\,(l^4-6\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-7\,l^2\,R^2+23\,r^2\,R^2+28\,r\,R^3+12\,R^4)^2\big)\big)\}$$

$$\{X79,\ \text{ISOGONAL CONJUGATE OF } X(35),\ X98,\ \text{TarryPoint},$$
$$\big(-24\,l^6\,r^2+152\,l^4\,r^4-72\,l^2\,r^6+8\,r^8-30\,l^6\,r\,R+310\,l^4\,r^3\,R-570\,l^2\,r^5\,R+$$
$$114\,r^7\,R-9\,l^6\,R^2+421\,l^4\,r^2\,R^2-1499\,l^2\,r^4\,R^2+631\,r^6\,R^2+228\,l^4\,r\,R^3-1712\,l^2\,r^3\,R^3+$$
$$1708\,r^5\,R^3+36\,l^4\,R^4-1176\,l^2\,r^2\,R^4+2356\,r^4\,R^4-288\,l^2\,r\,R^5+1632\,r^3\,R^5+576\,r^2\,R^6)\,/$$
$$\big((2\,r+3\,R)^2\,(l^4-14\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R+16\,r^2\,R^2)\big)\}$$

$$\{X79,\ \text{ISOGONAL CONJUGATE OF } X(35),\ X99,\ \text{STEINER POINT},$$
$$\big(192\,l^4\,r^4-64\,l^2\,r^6+18\,l^6\,r\,R+102\,l^4\,r^3\,R-426\,l^2\,r^5\,R+2\,r^7\,R+9\,l^6\,R^2-$$
$$213\,l^4\,r^2\,R^2-965\,l^2\,r^4\,R^2+25\,r^6\,R^2-144\,l^4\,r\,R^3-552\,l^2\,r^3\,R^3+104\,r^5\,R^3+144\,r^4\,R^4)\,/$$
$$\big((2\,r+3\,R)^2\,(l^4-14\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R+16\,r^2\,R^2)\big)\}$$

$$\left\{X79,\ \text{ISOGONAL CONJUGATE OF } X(35),\ X100,\ \text{ANTICOMPLEMENT OF FEUERBACH POINT},\ \frac{-24 l^2 r^3+8 r^5-12 l^2 r^2 R+68 r^4 R-18 l^2 r R^2+198 r^3 R^2-9 l^2 R^3+243 r^2 R^3+144 r R^4}{(2 r-R)(2 r+3 R)^2}\right\}$$

$$\left\{X80,\ \text{REFLECTION OF INCENTER IN FEUERBACH POINT},\ X81,\ \text{CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},\ \frac{r^2\left(12 l^4 r-16 l^2 r^3+4 r^5-2 l^4 R-32 l^2 r^2 R+18 r^4 R-38 l^2 r R^2+34 r^3 R^2-l^2 R^3+27 r^2 R^3+16 r R^4\right)}{(2 r-R)\left(-l^2+r^2+r R\right)^2}\right\}$$

$$\left\{X80,\ \text{REFLECTION OF INCENTER IN FEUERBACH POINT},\ X82,\ \text{ISOGONAL CONJUGATE OF } X(38),\ \frac{1}{(2 r-R)\left(l^4-4 l^2 r^2+3 r^4-9 l^2 r R+19 r^3 R+28 r^2 R^2\right)^2}\right.$$
$$\left. r^2\left(16 l^8 r-96 l^6 r^3+192 l^4 r^5-160 l^2 r^7+48 r^9-2 l^8 R-276 l^6 r^2 R+1232 l^4 r^4 R-1644 l^2 r^6 R+690 r^8 R-16 l^6 r R^2+2112 l^4 r^3 R^2-5840 l^2 r^5 R^2+3808 r^7 R^2-l^6 R^3+477 l^4 r^2 R^3-7987 l^2 r^4 R^3+9967 r^6 R^3+32 l^4 r R^4-2952 l^2 r^3 R^4+12\,216 r^5 R^4-320 l^2 r^2 R^5+5872 r^4 R^5+1024 r^3 R^6\right)\right\}$$

$$\left\{X80,\ \text{REFLECTION OF INCENTER IN FEUERBACH POINT},\ X83,\ \text{CEVAPOINT OF CENTROID AND SYMMEDIAN POINT},\ \frac{1}{(2 r-R)\left(5 l^4-6 l^2 r^2+5 r^4-40 l^2 r R+40 r^3 R+80 r^2 R^2\right)^2}\right.$$
$$\left(-8 l^{10} r+216 l^8 r^3-624 l^6 r^5+720 l^4 r^7-392 l^2 r^9+88 r^{11}-l^{10} R+203 l^8 r^2 R-3274 l^6 r^4 R+6934 l^4 r^6 R-5445 l^2 r^8 R+1551 r^{10} R+40 l^8 r R^2-2616 l^6 r^3 R^2+20\,168 l^4 r^5 R^2-27\,304 l^2 r^7 R^2+10\,800 r^9 R^2-592 l^6 r^2 R^3+16\,256 l^4 r^4 R^3-58\,256 l^2 r^6 R^3+37\,280 r^8 R^3+4096 l^4 r^3 R^4-47\,616 l^2 r^5 R^4+65\,280 r^7 R^4-13\,312 l^2 r^4 R^5+52\,992 r^6 R^5+16\,384 r^5 R^6\right)\Big\}$$

$$\left\{X80,\ \text{REFLECTION OF INCENTER IN FEUERBACH POINT},\ X84,\ \text{ISOGONAL CONJUGATE OF } X(40),\ \frac{4(r-R)^2\left(-l^2 r+r^3+l^2 R+2 r^2 R-4 R^3\right)}{r^2(2 r-R)}\right\}$$

$$\left\{X80,\ \text{REFLECTION OF INCENTER IN FEUERBACH POINT},\ X85,\ \text{ISOTOMIC CONJUGATE OF } X(9),\ -\left(\left(R\left(l^6+11 l^4 r^2-45 l^2 r^4+9 r^6+8 l^4 r R-360 l^2 r^3 R+144 r^5 R-720 l^2 r^2 R^2+864 r^4 R^2+2304 r^3 R^3+2304 r^2 R^4\right)\right)\Big/\left((2 r-R)\left(l^2+r^2+8 r R+16 R^2\right)^2\right)\right)\right\}$$

$$\left\{X80,\ \text{REFLECTION OF INCENTER IN FEUERBACH POINT},\ X86,\ \text{CEVAPOINT OF INCENTER AND CENTROID},\ -\left(\left(8 l^6 r-144 l^4 r^3-24 l^2 r^5+l^6 R-37 l^4 r^2 R-93 l^2 r^4 R+9 r^6 R-16 l^4 r R^2+120 l^2 r^3 R^2+72 r^5 R^2+144 r^4 R^3\right)\Big/\left((2 r-R)\left(5 l^2+r^2+4 r R\right)^2\right)\right)\right\}$$

$$\left\{X80,\ \text{REFLECTION OF INCENTER IN FEUERBACH POINT},\ X87,\ X(2)\text{-CROSS CONJUGATE OF } X(1),\ \frac{1}{(2 r-R)\left(l^4+2 l^2 r^2+r^4-20 l^2 r R+12 r^3 R+32 r^2 R^2\right)^2}\right.$$
$$\left. 4 r^2\left(2 l^8 r+8 l^6 r^3+12 l^4 r^5+8 l^2 r^7+2 r^9+l^8 R-76 l^6 r^2 R-106 l^4 r^4 R+20 l^2 r^6 R+49 r^8 R-36 l^6 r R^2+884 l^4 r^3 R^2-684 l^2 r^5 R^2+444 r^7 R^2-4 l^6 R^3+468 l^4 r^2 R^3-2764 l^2 r^4 R^3+1884 r^6 R^3+96 l^4 r R^4-2752 l^2 r^3 R^4+3808 r^5 R^4-576 l^2 r^2 R^5+3264 r^4 R^5+1024 r^3 R^6\right)\right\}$$

$$\left\{X80,\ \text{REFLECTION OF INCENTER IN FEUERBACH POINT},\ X88,\ \text{ISOGONAL CONJUGATE OF } X(44),\ -\frac{r^2\left(2 l^4-18 r^4-36 l^2 r R+108 r^3 R-9 l^2 R^2+27 r^2 R^2+144 r R^3\right)}{\left(l^2+3 r^2-15 r R\right)^2}\right\}$$

$$\left\{X80,\ \text{REFLECTION OF INCENTER IN FEUERBACH POINT},\ X89,\ \text{ISOGONAL CONJUGATE OF } X(45),\ \left(r^2\left(80 l^4 r-288 l^2 r^3+144 r^5-4 l^4 R-72 l^2 r^2 R+252 r^4 R-360 l^2 r R^2+216 r^3 R^2-9 l^2 R^3-477 r^2 R^3+144 r R^4\right)\right)\Big/\left((2 r-R)\left(-2 l^2+6 r^2-3 r R\right)^2\right)\right\}$$

$$\left\{\text{X80, REFLECTION OF INCENTER IN FEUERBACH POINT, X90, X(3)-CROSS CONJUGATE OF X(1)}, \frac{4 r^4 \left(-l^2 r+r^3+5 r^2 R+6 r R^2-R^3\right)}{(2 r-R) \left(r^2+2 r R-R^2\right)^2}\right\}$$

$$\left\{\text{X80, REFLECTION OF INCENTER IN FEUERBACH POINT, X91, ISOGONAL CONJUGATE OF X(47)}, -\left(\left(r^2 R \left(-l^6+13 l^4 r^2-35 l^2 r^4+15 r^6+16 l^4 r R-120 l^2 r^3 R+120 r^5 R+8 l^4 R^2-160 l^2 r^2 R^2+360 r^4 R^2-88 l^2 r R^3+504 r^3 R^3-20 l^2 R^4+348 r^2 R^4+112 r R^5+16 R^6\right)\right) \Big/ \left((2 r-R) \left(l^2 r+r^3-l^2 R+3 r^2 R+2 r R^2+2 R^3\right)^2\right)\right)\right\}$$

$$\left\{\text{X80, REFLECTION OF INCENTER IN FEUERBACH POINT, X92, CEVAPOINT OF INCENTER AND CLAWSON POINT}, -\frac{1}{(2 r-R) \left(l^2+r^2-4 R^2\right)^2} R \left(l^6+3 l^4 r^2-29 l^2 r^4+33 r^6-24 l^4 r R-40 l^2 r^3 R+176 r^5 R-8 l^4 R^2+112 l^2 r^2 R^2+264 r^4 R^2+160 l^2 r R^3-64 r^3 R^3+16 l^2 R^4-432 r^2 R^4-256 r R^5\right)\right\}$$

$$\left\{\text{X80, REFLECTION OF INCENTER IN FEUERBACH POINT, X93, ISOGONAL CONJUGATE OF X(49)}, -\left(\left(R \left(l^{10}-3 l^8 r^2-6 l^6 r^4+10 l^4 r^6+21 l^2 r^8+9 r^{10}-28 l^8 r R+144 l^6 r^3 R-264 l^4 r^5 R+208 l^2 r^7 R+132 r^9 R-10 l^8 R^2+252 l^6 r^2 R^2-960 l^4 r^4 R^2+868 l^2 r^6 R^2+810 r^8 R^2+236 l^6 r R^3-1636 l^4 r^3 R^3+2100 l^2 r^5 R^3+2692 r^7 R^3+32 l^6 R^4-1332 l^4 r^2 R^4+3208 l^2 r^4 R^4+5212 r^6 R^4-624 l^4 r R^5+3136 l^2 r^3 R^5+5808 r^5 R^5-34 l^4 R^6+1728 l^2 r^2 R^6+3298 r^4 R^6+556 l^2 r R^7+484 r^3 R^7+7 l^2 R^8-309 r^2 R^8-140 r R^9+4 R^{10}\right)\right) \Big/ \left((2 r-R) \left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-8 l^2 R^2+24 r^2 R^2+32 r R^3+13 R^4\right)^2\right)\right)\right\}$$

$$\left\{\text{X80, REFLECTION OF INCENTER IN FEUERBACH POINT, X94, ISOGONAL CONJUGATE OF X(50)}, -\left(\left(R \left(-l^2+3 r^2+6 r R+3 R^2\right)^2 \left(l^6+3 l^4 r^2+3 l^2 r^4+r^6-24 l^4 r R+16 l^2 r^3 R+8 r^5 R-6 l^4 R^2+60 l^2 r^2 R^2+18 r^4 R^2+120 l^2 r R^3-16 r^3 R^3+9 l^2 R^4-123 r^2 R^4-144 r R^5\right)\right) \Big/ \left((2 r-R) \left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-12 l^2 R^2+28 r^2 R^2+48 r R^3+27 R^4\right)^2\right)\right)\right\}$$

$$\left\{\text{X80, REFLECTION OF INCENTER IN FEUERBACH POINT, X95, CEVAPOINT OF CENTROID AND CIRCUMCENTER}, -\left(\left(32 l^8 r^3+480 l^6 r^5-1696 l^4 r^7-96 l^2 r^9+l^{10} R+13 l^8 r^2 R-534 l^6 r^4 R-2374 l^4 r^6 R-795 l^2 r^8 R+9 r^{10} R-24 l^8 r R^2-344 l^6 r^3 R^2-88 l^4 r^5 R^2-2184 l^2 r^7 R^2+144 r^9 R^2-8 l^8 R^3+96 l^6 r^2 R^3+2560 l^4 r^4 R^3-2496 l^2 r^6 R^3+936 r^8 R^3+160 l^6 r R^4+96 l^4 r^3 R^4-1248 l^2 r^5 R^4+3168 r^7 R^4+16 l^6 R^5-528 l^4 r^2 R^5+240 l^2 r^4 R^5+5904 r^6 R^5-256 l^4 r R^6+1152 l^2 r^3 R^6+5760 r^5 R^6+2304 r^4 R^7\right) \Big/ \left((2 r-R) \left(l^4+18 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-4 l^2 R^2+20 r^2 R^2+16 r R^3\right)^2\right)\right)\right\}$$

$$\left\{\text{X80, REFLECTION OF INCENTER IN FEUERBACH POINT, X96, ISOGONAL CONJUGATE OF X(52)}, \frac{1}{(2 r-R) \left(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2-4 R^4\right)^2} \left(-4 l^{10} r+92 l^8 r^3-584 l^6 r^5+1112 l^4 r^7-244 l^2 r^9+12 r^{11}+l^{10} R+69 l^8 r^2 R-1302 l^6 r^4 R+4842 l^4 r^6 R-2779 l^2 r^8 R+225 r^{10} R+20 l^8 r R^2-1176 l^6 r^3 R^2+9184 l^4 r^5 R^2-11944 l^2 r^7 R^2+1740 r^9 R^2-12 l^8 R^3-376 l^6 r^2 R^3+8752 l^4 r^4 R^3-24936 l^2 r^6 R^3+7164 r^8 R^3+48 l^6 r R^4+3840 l^4 r^3 R^4-27664 l^2 r^5 R^4+16928 r^7 R^4+56 l^6 R^5+184 l^4 r^2 R^5-15608 l^2 r^4 R^5+23048 r^6 R^5-448 l^4 r R^6-2656 l^2 r^3 R^6+16864 r^5 R^6-128 l^4 R^7+1568 l^2 r^2 R^7+4448 r^4 R^7+896 l^2 r R^8-2112 r^3 R^8+144 l^2 R^9-1968 r^2 R^9-576 r R^{10}-64 R^{11}\right)\right\}$$

$$\left\{\text{X80, REFLECTION OF INCENTER IN FEUERBACH POINT, X97, ISOGONAL CONJUGATE OF X(53)}, \left(20 l^8 r^3-160 l^6 r^5+264 l^4 r^7-64 l^2 r^9+4 r^{11}-280 l^6 r^4 R+1240 l^4 r^6 R-712 l^2 r^8 R+72 r^{10} R+2 l^8 r R^2-280 l^6 r^3 R^2+2628 l^4 r^5 R^2-3304 l^2 r^7 R^2+570 r^9 R^2-50 l^6 r^2 R^3+2954 l^4 r^4 R^3-8342 l^2 r^6 R^3+2606 r^8 R^3-24 l^6 r R^4+1868 l^4 r^3 R^4-12536 l^2 r^5 R^4+7588 r^7 R^4-l^6 R^5+485 l^4 r^2 R^5-11447 l^2 r^4 R^5+14611 r^6 R^5+120 l^4 r R^6-6080 l^2 r^3 R^6+18664 r^5 R^6+8 l^4 R^7-1680 l^2 r^2 R^7+15400 r^4 R^7-288 l^2 r R^8+7712 r^3 R^8-16 l^2 R^9+2096 r^2 R^9+256 r R^{10}\right) \Big/ \left((2 r-R) \left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-7 l^2 R^2+23 r^2 R^2+28 r R^3+12 R^4\right)^2\right)\right\}$$

$$\{X80,\ \text{REFLECTION OF INCENTER IN FEUERBACH POINT},\ X98,\ \text{TarryPoint},$$
$$\left(-4 l^6 r+36 l^4 r^3-76 l^2 r^5+12 r^7+l^6 R+51 l^4 r^2 R-269 l^2 r^4 R+129 r^6 R+4 l^4 r R^2-320 l^2 r^3 R^2+476 r^5 R^2-4 l^4 R^3-104 l^2 r^2 R^3+684 r^4 R^3+32 l^2 r R^4+288 r^3 R^4-64 r^2 R^5\right)\Big/\left((2 r-R)\left(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)\right)\}$$

$$\{X80,\ \text{REFLECTION OF INCENTER IN FEUERBACH POINT},\ X99,\ \text{STEINER POINT},$$
$$-\frac{-32 l^4 r^3+96 l^2 r^5+l^6 R-5 l^4 r^2 R+195 l^2 r^4 R+9 r^6 R-16 l^4 r R^2+216 l^2 r^3 R^2+72 r^5 R^2+144 r^4 R^3}{(2 r-R)\left(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)}\}$$

$$\{X80,\ \text{REFLECTION OF INCENTER IN FEUERBACH POINT},\ X100,$$
$$\text{ANTICOMPLEMENT OF FEUERBACH POINT},\ \frac{-2 l^2 r+6 r^3-l^2 R+19 r^2 R+16 r R^2}{2 r-R}\}$$

$$\{X81,\ \text{CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},\ X82,\ \text{ISOGONAL CONJUGATE OF } X(38),$$
$$-\Big(\Big(4 r^4 R\left(2 l^8 r-4 l^4 r^5+2 r^9-l^8 R+8 l^6 r^2 R-38 l^4 r^4 R-8 l^2 r^6 R+39 r^8 R+8 l^6 r R^2-106 l^4 r^3 R^2-92 l^2 r^5 R^2+310 r^7 R^2-87 l^4 r^2 R^3-326 l^2 r^4 R^3+1281 r^6 R^3-396 l^2 r^3 R^4+2892 r^5 R^4-100 l^2 r^2 R^5+3376 r^4 R^5+1600 r^3 R^6\right)\Big)\Big/\left(\left(l^2-r^2-r R\right)^2\left(l^4-4 l^2 r^2+3 r^4-9 l^2 r R+19 r^3 R+28 r^2 R^2\right)^2\right)\Big)\}$$

$$\{X81,\ \text{CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},$$
$$X83,\ \text{CEVAPOINT OF CENTROID AND SYMMEDIAN POINT},$$
$$\left(l^{14}+5 l^{12} r^2+9 l^{10} r^4+5 l^8 r^6-5 l^6 r^8-9 l^4 r^{10}-5 l^2 r^{12}-r^{14}-32 l^{12} r R-104 l^{10} r^3 R+144 l^6 r^7 R-104 l^2 r^{11} R-32 r^{13} R+328 l^{10} r^2 R^2+908 l^8 r^4 R^2-1664 l^6 r^6 R^2+1480 l^4 r^8 R^2-808 l^2 r^{10} R^2-436 r^{12} R^2-1120 l^8 r^3 R^3-4432 l^6 r^5 R^3+7856 l^4 r^7 R^3-2864 l^2 r^9 R^3-3280 r^{11} R^3-1264 l^6 r^4 R^4+13\,728 l^4 r^6 R^4-4592 l^2 r^8 R^4-14\,720 r^{10} R^4+12\,416 l^4 r^5 R^5-3712 l^2 r^7 R^5-39\,424 r^9 R^5-3840 l^2 r^6 R^6-58\,368 r^8 R^6-36\,864 r^7 R^7\right)\Big/\left(\left(l^2-r^2-r R\right)^2\left(5 l^4-6 l^2 r^2+5 r^4-40 l^2 r R+40 r^3 R+80 r^2 R^2\right)^2\right)\}$$

$$\{X81,\ \text{CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},$$
$$X84,\ \text{ISOGONAL CONJUGATE OF } X(40),\ \frac{1}{r^2\left(-l^2+r^2+r R\right)^2}$$
$$R\left(4 l^6 r-6 l^4 r^3-2 l^2 r^5-4 l^6 R-8 l^4 r^2 R-5 l^2 r^4 R+3 r^6 R+8 l^4 r R^2-12 l^2 r^3 R^2+16 r^5 R^2+16 l^4 R^3-36 l^2 r^2 R^3+32 r^4 R^3-32 l^2 r R^4+32 r^3 R^4+16 r^2 R^5\right)\}$$

$$\{X81,\ \text{CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},\ X85,$$
$$\text{ISOTOMIC CONJUGATE OF } X(9),\ \frac{1}{\left(l^2-r^2-r R\right)^2\left(l^2+r^2+8 r R+16 R^2\right)^2}$$
$$\left(l^{10}+3 l^8 r^2+2 l^6 r^4-2 l^4 r^6-3 l^2 r^8-r^{10}-24 l^8 r R+72 l^6 r^3 R-32 l^4 r^5 R-24 l^2 r^7 R-24 r^9 R+104 l^6 r^2 R^2-116 l^4 r^4 R^2-16 l^2 r^6 R^2-244 r^8 R^2+32 l^6 r R^3-320 l^4 r^3 R^3+304 l^2 r^5 R^3-1360 r^7 R^3-384 l^4 r^2 R^4+912 l^2 r^4 R^4-4480 r^6 R^4+896 l^2 r^3 R^5-8704 r^5 R^5+256 l^2 r^2 R^6-9216 r^4 R^6-4096 r^3 R^7\right)\}$$

$$\{X81,\ \text{CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},\ X86,\ \text{CEVAPOINT OF INCENTER AND CENTROID},$$
$$\frac{\left(l^2+r^2+2 r R\right)^2\left(l^6+9 l^4 r^2-9 l^2 r^4-r^6-12 l^4 r R-24 l^2 r^3 R-12 r^5 R-60 l^2 r^2 R^2-48 r^4 R^2-64 r^3 R^3\right)}{\left(l^2-r^2-r R\right)^2\left(5 l^2+r^2+4 r R\right)^2}\}$$

$$\{X81,\ \text{CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},\ X87,$$
$$X(2)\text{-CROSS CONJUGATE OF } X(1),\ -\frac{1}{\left(l^2-r^2-r R\right)^2\left(l^4+2 l^2 r^2+r^4-20 l^2 r R+12 r^3 R+32 r^2 R^2\right)^2}$$
$$r^2 R\left(6 l^{10} r+22 l^8 r^3+28 l^6 r^5+12 l^4 r^7-2 l^2 r^9-2 r^{11}-9 l^{10} R-145 l^8 r^2 R-138 l^6 r^4 R+110 l^4 r^6 R+99 l^2 r^8 R-13 r^{10} R+144 l^8 r R^2+240 l^6 r^3 R^2+112 l^4 r^5 R^2+80 l^2 r^7 R^2+64 r^9 R^2+96 l^6 r^2 R^3-544 l^4 r^4 R^3+160 l^2 r^6 R^3+800 r^8 R^3-1536 l^4 r^3 R^4-768 l^2 r^5 R^4+2816 r^7 R^4-256 l^2 r^4 R^5+4864 r^6 R^5+4096 r^5 R^6\right)\}$$

$$\{X81,\ \text{CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},\ X88,\ \text{ISOGONAL CONJUGATE OF } X(44),$$
$$-\left(\left(4 r^2 R \left(4 l^6 r + 24 l^4 r^3 - 12 l^2 r^5 - l^6 R - 65 l^4 r^2 R - 39 l^2 r^4 R + 9 r^6 R + 4 l^4 r R^2 - 168 l^2 r^3 R^2 + 108 r^5 R^2 + 156 l^2 r^2 R^3 + 432 r^4 R^3 + 576 r^3 R^4\right)\right) \Big/ \left(\left(l^2 + 3 r^2 - 15 r R\right)^2 \left(l^2 - r^2 - r R\right)^2\right)\right)\}$$

$$\{X81,\ \text{CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},\ X89,\ \text{ISOGONAL CONJUGATE OF } X(45),$$
$$\left(r^2 R \left(8 l^6 r - 96 l^4 r^3 + 24 l^2 r^5 + l^6 R - 103 l^4 r^2 R + 159 l^2 r^4 R - 9 r^6 R - 28 l^4 r R^2 + 552 l^2 r^3 R^2 - 108 r^5 R^2 + 228 l^2 r^2 R^3 - 432 r^4 R^3 - 576 r^3 R^4\right)\right) \Big/ \left(\left(l^2 - r^2 - r R\right)^2 \left(2 l^2 - 6 r^2 + 3 r R\right)^2\right)\}$$

$$\{X81,\ \text{CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},\ X90,\ X(3)\text{-CROSS CONJUGATE OF } X(1),$$
$$\left(r^2 R \left(4 l^6 r - 6 l^4 r^3 - 2 l^2 r^5 - 14 l^4 r^2 R - 17 l^2 r^4 R + r^6 R - 26 l^4 r R^2 - 30 l^2 r^3 R^2 + 8 r^5 R^2 + 2 l^4 R^3 - 8 l^2 r^2 R^3 + 22 r^4 R^3 + 36 l^2 r R^4 + 24 r^3 R^4 + l^2 R^5 + 5 r^2 R^5 - 16 r R^6\right)\right) \Big/ \left(\left(l^2 - r^2 - r R\right)^2 \left(r^2 + 2 r R - R^2\right)^2\right)\}$$

$$\{X81,\ \text{CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},\ X91,$$
$$\text{ISOGONAL CONJUGATE OF } X(47),\ \frac{1}{\left(l^2 - r^2 - r R\right)^2 \left(l^2 r + r^3 - l^2 R + 3 r^2 R + 2 r R^2 + 2 R^3\right)^2}$$
$$r^2 \left(l^{10} + 3 l^8 r^2 + 2 l^6 r^4 - 2 l^4 r^6 - 3 l^2 r^8 - r^{10} - 22 l^8 r R + 36 l^6 r^3 R - 40 l^4 r^5 R + 12 l^2 r^7 R - 18 r^9 R - 6 l^8 R^2 + 78 l^6 r^2 R^2 - 198 l^4 r^4 R^2 + 162 l^2 r^6 R^2 - 132 r^8 R^2 + 126 l^6 r R^3 - 422 l^4 r^3 R^3 + 570 l^2 r^5 R^3 - 514 r^7 R^3 + 13 l^6 R^4 - 417 l^4 r^2 R^4 + 1071 l^2 r^4 R^4 - 1171 r^6 R^4 - 256 l^4 r R^5 + 1168 l^2 r^3 R^5 - 1648 r^5 R^5 - 12 l^4 R^6 + 680 l^2 r^2 R^6 - 1500 r^4 R^6 + 216 l^2 r R^7 - 904 r^3 R^7 + 4 l^2 R^8 - 332 r^2 R^8 - 64 r R^9\right)\}$$

$$\{X81,\ \text{CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},\ X92,$$
$$\text{CEVAPOINT OF INCENTER AND CLAWSON POINT},\ \frac{1}{\left(l^2 - r^2 - r R\right)^2 \left(l^2 + r^2 - 4 R^2\right)^2}$$
$$\left(l^{10} + 3 l^8 r^2 + 2 l^6 r^4 - 2 l^4 r^6 - 3 l^2 r^8 - r^{10} - 24 l^8 r R + 32 l^6 r^3 R - 40 l^4 r^5 R + 16 l^2 r^7 R - 16 r^9 R - 8 l^8 R^2 + 88 l^6 r^2 R^2 - 204 l^4 r^4 R^2 + 176 l^2 r^6 R^2 - 100 r^8 R^2 + 160 l^6 r R^3 - 384 l^4 r^3 R^3 + 528 l^2 r^5 R^3 - 304 r^7 R^3 + 16 l^6 R^4 - 336 l^4 r^2 R^4 + 784 l^2 r^4 R^4 - 448 r^6 R^4 - 256 l^4 r R^5 + 512 l^2 r^3 R^5 - 256 r^5 R^5\right)\}$$

$$\{X81,\ \text{CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},\ X93,\ \text{ISOGONAL CONJUGATE OF } X(49),$$
$$\left(l^{14} + 5 l^{12} r^2 + 9 l^{10} r^4 + 5 l^8 r^6 - 5 l^6 r^8 - 9 l^4 r^{10} - 5 l^2 r^{12} - r^{14} - 24 l^{12} r R - 56 l^{10} r^3 R - 8 l^8 r^5 R + 48 l^6 r^7 R - 8 l^4 r^9 R - 56 l^2 r^{11} R - 24 r^{13} R - 10 l^{12} R^2 + 68 l^{10} r^2 R^2 + 310 l^8 r^4 R^2 - 408 l^6 r^6 R^2 + 370 l^4 r^8 R^2 - 268 l^2 r^{10} R^2 - 254 r^{12} R^2 + 206 l^{10} r R^3 + 554 l^8 r^3 R^3 - 2196 l^6 r^5 R^3 + 2420 l^4 r^7 R^3 - 698 l^2 r^9 R^3 - 1566 r^{11} R^3 + 32 l^{10} R^4 - 300 l^8 r^2 R^4 - 4616 l^6 r^4 R^4 + 7808 l^4 r^6 R^4 - 1080 l^2 r^8 R^4 - 6260 r^{10} R^4 - 562 l^8 r R^5 - 4016 l^6 r^3 R^5 + 14468 l^4 r^5 R^5 - 1456 l^2 r^7 R^5 - 17074 r^9 R^5 - 34 l^8 R^6 - 564 l^6 r^2 R^6 + 16216 l^4 r^4 R^6 - 3324 l^2 r^6 R^6 - 32486 r^8 R^6 + 534 l^6 r R^7 + 9814 l^4 r^3 R^7 - 7078 l^2 r^5 R^7 - 43142 r^7 R^7 + 7 l^6 R^8 + 2155 l^4 r^2 R^8 - 8807 l^2 r^4 R^8 - 39115 r^6 R^8 - 146 l^4 r R^9 - 5444 l^2 r^3 R^9 - 22930 r^5 R^9 + 4 l^4 R^{10} - 1284 l^2 r^2 R^{10} - 7724 r^4 R^{10} - 8 l^2 r R^{11} - 1112 r^3 R^{11} + 4 r^2 R^{12}\right) \Big/$$
$$\left(\left(l^2 - r^2 - r R\right)^2 \left(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 8 l^2 R^2 + 24 r^2 R^2 + 32 r R^3 + 13 R^4\right)^2\right)\}$$

$$\{X81,\ \text{CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},\ X94,\ \text{ISOGONAL CONJUGATE OF } X(50),$$
$$\left(l^{14} + 5 l^{12} r^2 + 9 l^{10} r^4 + 5 l^8 r^6 - 5 l^6 r^8 - 9 l^4 r^{10} - 5 l^2 r^{12} - r^{14} - 24 l^{12} r R - 56 l^{10} r^3 R - 8 l^8 r^5 R + 48 l^6 r^7 R - 8 l^4 r^9 R - 56 l^2 r^{11} R - 24 r^{13} R - 12 l^{12} R^2 + 64 l^{10} r^2 R^2 + 312 l^8 r^4 R^2 - 400 l^6 r^6 R^2 + 372 l^4 r^8 R^2 - 272 l^2 r^{10} R^2 - 256 r^{12} R^2 + 252 l^{10} r R^3 + 596 l^8 r^3 R^3 - 2200 l^6 r^5 R^3 + 2424 l^4 r^7 R^3 - 740 l^2 r^9 R^3 - 1612 r^{11} R^3 + 54 l^{10} R^4 - 510 l^8 r^2 R^4 - 4844 l^6 r^4 R^4 + 8124 l^4 r^6 R^4 - 1226 l^2 r^8 R^4 - 6718 r^{10} R^4 - 972 l^8 r R^5 - 4344 l^6 r^3 R^5 + 16040 l^4 r^5 R^5 - 1784 l^2 r^7 R^5 - 19660 r^9 R^5 - 108 l^8 R^6 + 252 l^6 r^2 R^6 + 20268 l^4 r^4 R^6 - 4428 l^2 r^6 R^6 - 41616 r^8 R^6 + 1620 l^6 r R^7 + 14580 l^4 r^3 R^7 - 10884 l^2 r^5 R^7 - 64132 r^7 R^7 + 81 l^6 R^8 + 3321 l^4 r^2 R^8 - 17145 l^2 r^4 R^8 - 70785 r^6 R^8 - 972 l^4 r R^9 - 14472 l^2 r^3 R^9 - 53388 r^5 R^9 - 4860 l^2 r^2 R^{10} - 24624 r^4 R^{10} - 5184 r^3 R^{11}\right) \Big/$$
$$\left(\left(l^2 - r^2 - r R\right)^2 \left(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 12 l^2 R^2 + 28 r^2 R^2 + 48 r R^3 + 27 R^4\right)^2\right)\}$$

$$\{X81,\ \text{CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},\ X95,\ \text{CEVAPOINT OF CENTROID AND CIRCUMCENTER},$$
$$\left(l^{14}+21 l^{12} r^2+57 l^{10} r^4+37 l^8 r^6-37 l^6 r^8-57 l^4 r^{10}-21 l^2 r^{12}-r^{14}-24 l^{12} r R-328 l^{10} r^3 R-456 l^8 r^5 R-304 l^6 r^7 R-456 l^4 r^9 R-328 l^2 r^{11} R-24 r^{13} R-8 l^{12} R^2+24 l^{10} r^2 R^2+980 l^8 r^4 R^2-2336 l^6 r^6 R^2-1072 l^4 r^8 R^2-2136 l^2 r^{10} R^2-252 r^{12} R^2+160 l^{10} r R^3+1152 l^8 r^3 R^3-1168 l^6 r^5 R^3+752 l^4 r^7 R^3-7312 l^2 r^9 R^3-1520 r^{11} R^3+16 l^{10} R^4-336 l^8 r^2 R^4-2416 l^6 r^4 R^4+5792 l^4 r^6 R^4-13568 l^2 r^8 R^4-5808 r^{10} R^4-256 l^8 r R^5-1792 l^6 r^3 R^5+7040 l^4 r^5 R^5-12160 l^2 r^7 R^5-14592 r^9 R^5-128 l^6 r^2 R^6+6464 l^4 r^4 R^6-2432 l^2 r^6 R^6-24128 r^8 R^6+2048 l^4 r^3 R^7+2304 l^2 r^5 R^7-25344 r^7 R^7+256 l^2 r^4 R^8-15360 r^6 R^8-4096 r^5 R^9\right)\Big/\left(\left(l^2-r^2-r R\right)^2\left(l^4+18 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-4 l^2 R^2+20 r^2 R^2+16 r R^3\right)^2\right)\}$$

$$\{X81,\ \text{CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},\ X96,\ \text{ISOGONAL CONJUGATE OF } X(52),$$
$$-\left(\left(l^{14}-11 l^{12} r^2-39 l^{10} r^4-27 l^8 r^6+27 l^6 r^8+39 l^4 r^{10}+11 l^2 r^{12}-r^{14}-22 l^{12} r R+164 l^{10} r^3 R+214 l^8 r^5 R+56 l^6 r^7 R+214 l^4 r^9 R+164 l^2 r^{11} R-22 r^{13} R-12 l^{12} R^2+316 l^{10} r^2 R^2-780 l^8 r^4 R^2+1512 l^6 r^6 R^2-180 l^4 r^8 R^2+1084 l^2 r^{10} R^2-212 r^{12} R^2+216 l^{10} r R^3-2344 l^8 r^3 R^3+4160 l^6 r^5 R^3-4672 l^4 r^7 R^3+4328 l^2 r^9 R^3-1176 r^{11} R^3+56 l^{10} R^4-2020 l^8 r^2 R^4+8816 l^6 r^4 R^4-16088 l^4 r^6 R^4+12120 l^2 r^8 R^4-4164 r^{10} R^4-784 l^8 r R^5+9600 l^6 r^3 R^5-24352 l^4 r^5 R^5+25216 l^2 r^7 R^5-9936 r^9 R^5-128 l^8 R^6+5024 l^6 r^2 R^6-23552 l^4 r^4 R^6+36704 l^2 r^6 R^6-16640 r^8 R^6+1280 l^6 r R^7-14656 l^4 r^3 R^7+33344 l^2 r^5 R^7-20224 r^7 R^7+144 l^6 R^8-5104 l^4 r^2 R^8+19376 l^2 r^4 R^8-17680 r^6 R^8-864 l^4 r R^9+7360 l^2 r^3 R^9-10080 r^5 R^9-64 l^4 R^{10}+1600 l^2 r^2 R^{10}-3392 r^4 R^{10}+128 l^2 r R^{11}-640 r^3 R^{11}-64 r^2 R^{12}\right)\Big/\left(\left(l^2-r^2-r R\right)^2\left(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2-4 R^4\right)^2\right)\right)\}$$

$$\{X81,\ \text{CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},\ X97,\ \text{ISOGONAL CONJUGATE OF } X(53),$$
$$\left(R\left(4 l^{10} r^3-16 l^8 r^5-40 l^6 r^7-16 l^4 r^9+4 l^2 r^{11}+5 l^{10} r^2 R-37 l^8 r^4 R-158 l^6 r^6 R-58 l^4 r^8 R+57 l^2 r^{10} R-r^{12} R+2 l^{10} r R^2-82 l^8 r^3 R^2-112 l^6 r^5 R^2+200 l^4 r^7 R^2+334 l^2 r^9 R^2-22 r^{11} R^2+l^{10} R^3-57 l^8 r^2 R^3+42 l^6 r^4 R^3+1330 l^4 r^6 R^3+957 l^2 r^8 R^3-209 r^{10} R^3-36 l^8 r R^4+216 l^6 r^3 R^4+2616 l^4 r^5 R^4+1080 l^2 r^7 R^4-1124 r^9 R^4-8 l^8 R^5+260 l^6 r^2 R^5+2424 l^4 r^4 R^5-1020 l^2 r^6 R^5-3768 r^8 R^5+160 l^6 r R^6+896 l^4 r^3 R^6-4672 l^2 r^5 R^6-8160 r^7 R^6+16 l^6 R^7-144 l^4 r^2 R^7-6000 l^2 r^4 R^7-11408 r^6 R^7-192 l^4 r R^8-3712 l^2 r^3 R^8-9920 r^5 R^8-960 l^2 r^2 R^9-4864 r^4 R^9-1024 r^3 R^{10}\right)\right)\Big/\left(\left(l^2-r^2-r R\right)^2\left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-7 l^2 R^2+23 r^2 R^2+28 r R^3+12 R^4\right)^2\right)\}$$

$$\{X81,\ \text{CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},\ X98,$$
$$\text{TarryPoint},\ -\frac{1}{\left(l^2-r^2-r R\right)^2\left(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)}\left(l^{10}+3 l^8 r^2+2 l^6 r^4-2 l^4 r^6-3 l^2 r^8-r^{10}-14 l^8 r R-16 l^6 r^3 R-4 l^4 r^5 R-16 l^2 r^7 R-14 r^9 R-4 l^8 R^2+52 l^6 r^2 R^2-120 l^4 r^4 R^2+4 l^2 r^6 R^2-76 r^8 R^2+40 l^6 r R^3-136 l^4 r^3 R^3+168 l^2 r^5 R^3-200 r^7 R^3-132 l^4 r^2 R^4+392 l^2 r^4 R^4-260 r^6 R^4+160 l^2 r^3 R^5-160 r^5 R^5-64 r^4 R^6\right)\}$$

$$\{X81,\ \text{CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},\ X99,\ \text{STEINER POINT},$$
$$\frac{\left(l^2+r^2+2 r R\right)^2\left(l^6+l^4 r^2-l^2 r^4-r^6-20 l^4 r R+40 l^2 r^3 R-12 r^5 R+68 l^2 r^2 R^2-48 r^4 R^2-64 r^3 R^3\right)}{\left(l^2-r^2-r R\right)^2\left(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)}\}$$

$$\{X81,\ \text{CEVAPOINT OF INCENTER AND SYMMEDIAN POINT},\ X100,\ \text{ANTICOMPLEMENT OF FEUERBACH POINT},$$
$$-\frac{R\left(l^6+3 l^4 r^2+3 l^2 r^4+r^6-16 l^4 r R+24 l^2 r^3 R+8 r^5 R+16 r^4 R^2\right)}{(2 r-R)\left(-l^2+r^2+r R\right)^2}\}$$

$$\{X82,\ \text{ISOGONAL CONJUGATE OF } X(38),\ X83,\ \text{CEVAPOINT OF CENTROID AND SYMMEDIAN POINT},$$
$$\left(\left(l^6+7 l^4 r^2-37 l^2 r^4+21 r^6-24 l^4 r R-64 l^2 r^3 R+152 r^5 R+144 l^2 r^2 R^2+208 r^4 R^2-256 r^3 R^3\right)\left(l^6+l^4 r^2-l^2 r^4-r^6-12 l^4 r R+8 l^2 r^3 R-12 r^5 R+40 l^2 r^2 R^2-48 r^4 R^2-64 r^3 R^3\right)^2\right)\Big/\left(\left(l^4-4 l^2 r^2+3 r^4-9 l^2 r R+19 r^3 R+28 r^2 R^2\right)^2\left(5 l^4-6 l^2 r^2+5 r^4-40 l^2 r R+40 r^3 R+80 r^2 R^2\right)^2\right)\}$$

$$\left\{X82,\ \text{ISOGONAL CONJUGATE OF } X(38),\ X84,\ \text{ISOGONAL CONJUGATE OF } X(40),\ -\frac{1}{r^2\left(l^4-4l^2r^2+3r^4-9l^2rR+19r^3R+28r^2R^2\right)^2}R\left(-4l^{10}r+26l^8r^3-48l^6r^5+36l^4r^7-12l^2r^9+2r^{11}+4l^{10}R+48l^8r^2R-315l^6r^4R+455l^4r^6R-229l^2r^8R+45r^{10}R-72l^8rR^2-212l^6r^3R^2+1456l^4r^5R^2-1420l^2r^7R^2+376r^9R^2-16l^8R^3+676l^6r^2R^3-24l^4r^4R^3-2636l^2r^6R^3+1328r^8R^3+288l^6rR^4-3776l^4r^3R^4+2944l^2r^5R^4+864r^7R^4-2192l^4r^2R^5+12192l^2r^4R^5-6672r^6R^5+8064l^2r^3R^6-17024r^5R^6-12544r^4R^7\right)\right\}$$

$$\left\{X82,\ \text{ISOGONAL CONJUGATE OF } X(38),\ X85,\ \text{ISOTOMIC CONJUGATE OF } X(9),\ \left(l^{14}-l^{12}r^2-7l^{10}r^4-l^8r^6+11l^6r^8+5l^4r^{10}-5l^2r^{12}-3r^{14}-40l^{12}rR+216l^{10}r^3R-592l^8r^5R+784l^6r^7R-296l^4r^9R+24l^2r^{11}R-96r^{13}R+624l^{10}r^2R^2-3504l^8r^4R^2+7104l^6r^6R^2-5120l^4r^8R^2+1744l^2r^{10}R^2-1360r^{12}R^2+32l^{10}rR^3-5536l^8r^3R^3+23520l^6r^5R^3-30880l^4r^7R^3+18432l^2r^9R^3-11200r^{11}R^3-896l^8r^2R^4+30016l^6r^4R^4-86784l^4r^6R^4+91712l^2r^8R^4-59136r^{10}R^4+9216l^6r^3R^5-113664l^4r^5R^5+248832l^2r^7R^5-207872r^9R^5+256l^6r^2R^6-57344l^4r^4R^6+370688l^2r^6R^6-487424r^8R^6-8192l^4r^3R^7+278528l^2r^5R^7-737280r^7R^7+81920l^2r^4R^8-655360r^6R^8-262144r^5R^9\right)\Big/\left(\left(l^2+r^2+8rR+16R^2\right)^2\left(l^4-4l^2r^2+3r^4-9l^2rR+19r^3R+28r^2R^2\right)^2\right)\right\}$$

$$\left\{X82,\ \text{ISOGONAL CONJUGATE OF } X(38),\ X86,\ \text{CEVAPOINT OF INCENTER AND CENTROID},\ \left(l^{14}+15l^{12}r^2-55l^{10}r^4-33l^8r^6+107l^6r^8+21l^4r^{10}-53l^2r^{12}-3r^{14}-24l^{12}rR-224l^{10}r^3R-24l^8r^5R+960l^6r^7R+120l^4r^9R-736l^2r^{11}R-72r^{13}R+128l^{10}r^2R^2+848l^8r^4R^2+2640l^6r^6R^2-304l^4r^8R^2-3984l^2r^{10}R^2-736r^{12}R^2+2176l^6r^5R^3-3392l^4r^7R^3-10752l^2r^9R^3-4160r^{11}R^3+320l^6r^4R^4-7552l^4r^6R^4-15808l^2r^8R^4-14080r^{10}R^4-4608l^4r^5R^5-13824l^2r^7R^5-28672r^9R^5-7168l^2r^6R^6-32768r^8R^6-16384r^7R^7\right)\Big/\left(\left(5l^2+r^2+4rR\right)^2\left(l^4-4l^2r^2+3r^4-9l^2rR+19r^3R+28r^2R^2\right)^2\right)\right\}$$

$$\left\{X82,\ \text{ISOGONAL CONJUGATE OF } X(38),\ X87,\ X(2)\text{-CROSS CONJUGATE OF } X(1),\ -\left(\left(r^2R\left(12l^{14}r+12l^{12}r^3-20l^{10}r^5+12l^8r^7+68l^6r^9+4l^4r^{11}-60l^2r^{13}-28r^{15}-9l^{14}R-439l^{12}r^2R+67l^{10}r^4R+269l^8r^6R-379l^6r^8R+219l^4r^{10}R-255l^2r^{12}R-625r^{14}R+288l^{12}rR^2+5128l^{10}r^3R^2-1784l^8r^5R^2-6064l^6r^7R^2+6704l^4r^9R^2+552l^2r^{11}R^2-5592r^{13}R^2-3264l^{10}r^2R^3-24368l^8r^4R^3+1344l^6r^6R^3+38752l^4r^8R^3-7680l^2r^{10}R^3-23984r^{12}R^3+19584l^8r^3R^4+31104l^6r^5R^4+78208l^4r^7R^4-100224l^2r^9R^4-35840r^{11}R^4-80896l^6r^4R^5+129280l^4r^6R^5-360960l^2r^8R^5+100608r^{10}R^5+237568l^4r^5R^6-595968l^2r^7R^6+542720r^9R^6-430080l^2r^6R^7+929792r^8R^7+589824r^7R^8\right)\right)\Big/\left(\left(l^4-4l^2r^2+3r^4-9l^2rR+19r^3R+28r^2R^2\right)^2\left(l^4+2l^2r^2+r^4-20l^2rR+12r^3R+32r^2R^2\right)^2\right)\right)\right\}$$

$$\left\{X82,\ \text{ISOGONAL CONJUGATE OF } X(38),\ X88,\ \text{ISOGONAL CONJUGATE OF } X(44),\ -\left(\left(4r^2R\left(5l^{10}r+17l^8r^3-102l^6r^5+194l^4r^7-159l^2r^9+45r^{11}-l^{10}R-161l^8r^2R-162l^6r^4R+1218l^4r^6R-1653l^2r^8R+711r^{10}R+20l^8rR^2+1630l^6r^3R^2+832l^4r^5R^2-5850l^2r^7R^2+4176r^9R^2-32l^6r^2R^3-6887l^4r^4R^3-4038l^2r^6R^3+10737r^8R^3-584l^4r^3R^4+10380l^2r^5R^4+10188r^7R^4+828l^2r^4R^5+1584r^6R^5+5184r^5R^6\right)\right)\Big/\left(\left(l^2+3r^2-15rR\right)^2\left(l^4-4l^2r^2+3r^4-9l^2rR+19r^3R+28r^2R^2\right)^2\right)\right)\right\}$$

$$\left\{X82,\ \text{ISOGONAL CONJUGATE OF } X(38),\ X89,\ \text{ISOGONAL CONJUGATE OF } X(45),\ \left(r^2R\left(4l^{10}r-44l^8r^3+216l^6r^5-584l^4r^7+804l^2r^9-396r^{11}+l^{10}R-187l^8r^2R+1926l^6r^4R-7362l^4r^6R+12153l^2r^8R-7299r^{10}R-44l^8rR^2+3404l^6r^3R^2-29404l^4r^5R^2+71028l^2r^7R^2-54072r^9R^2+860l^6r^2R^3-32476l^4r^4R^3+181092l^2r^6R^3-204516r^8R^3-9616l^4r^3R^4+183648l^2r^5R^4-414000r^7R^4+60048l^2r^4R^5-427968r^6R^5-186624r^5R^6\right)\right)\Big/\left(\left(2l^2-6r^2+3rR\right)^2\left(l^4-4l^2r^2+3r^4-9l^2rR+19r^3R+28r^2R^2\right)^2\right)\right\}$$

$$\{X82,\ \text{ISOGONAL CONJUGATE OF } X(38),\ X90,\ X(3)\text{-CROSS CONJUGATE OF } X(1),$$
$$-\Big(\big(r^2 R\,\big(-4 l^{10} r + 26 l^8 r^3 - 48 l^6 r^5 + 36 l^4 r^7 - 12 l^2 r^9 + 2 r^{11} + 70 l^8 r^2 R - 319 l^6 r^4 R + 431 l^4 r^6 R - 221 l^2 r^8 R + 47 r^{10} R + 30 l^8 r R^2 - 666 l^6 r^3 R^2 + 1826 l^4 r^5 R^2 - 1566 l^2 r^7 R^2 + 456 r^9 R^2 - 2 l^8 R^3 - 432 l^6 r^2 R^3 + 3444 l^4 r^4 R^3 - 5408 l^2 r^6 R^3 + 2350 r^8 R^3 - 14 l^6 r R^4 + 2674 l^4 r^3 R^4 - 9506 l^2 r^5 R^4 + 6878 r^7 R^4 - l^6 R^5 + 413 l^4 r^2 R^5 - 7843 l^2 r^4 R^5 + 11295 r^6 R^5 + 32 l^4 r R^6 - 2312 l^2 r^3 R^6 + 9624 r^5 R^6 - 320 l^2 r^2 R^7 + 3824 r^4 R^7 + 1024 r^3 R^8\big)\big) \Big/ \big((r^2 + 2 r R - R^2)^2 (l^4 - 4 l^2 r^2 + 3 r^4 - 9 l^2 r R + 19 r^3 R + 28 r^2 R^2)^2\big)\Big)\}$$

$$\{X82,\ \text{ISOGONAL CONJUGATE OF } X(38),\ X91,\ \text{ISOGONAL CONJUGATE OF } X(47),$$
$$\big(r^2 (l^2 - r^2 - 4 r R - R^2)^2 \big(l^{10} + l^8 r^2 - 6 l^6 r^4 - 14 l^4 r^6 - 11 l^2 r^8 - 3 r^{10} - 32 l^8 r R + 88 l^6 r^3 R - 184 l^4 r^5 R + 136 l^2 r^7 R - 72 r^9 R - 4 l^8 R^2 + 328 l^6 r^2 R^2 - 960 l^4 r^4 R^2 + 1368 l^2 r^6 R^2 - 668 r^8 R^2 + 128 l^6 r R^3 - 1952 l^4 r^3 R^3 + 4352 l^2 r^5 R^3 - 3168 r^7 R^3 + 4 l^6 R^4 - 1268 l^4 r^2 R^4 + 6892 l^2 r^4 R^4 - 8412 r^6 R^4 - 128 l^4 r R^5 + 5536 l^2 r^3 R^5 - 12768 r^5 R^5 + 1280 l^2 r^2 R^6 - 10688 r^4 R^6 - 4096 r^3 R^7\big)\big) \Big/ \big((l^4 - 4 l^2 r^2 + 3 r^4 - 9 l^2 r R + 19 r^3 R + 28 r^2 R^2)^2 (l^2 r + r^3 - l^2 R + 3 r^2 R + 2 r R^2 + 2 R^3)^2\big)\}$$

$$\{X82,\ \text{ISOGONAL CONJUGATE OF } X(38),\ X92,\ \text{CEVAPOINT OF INCENTER AND CLAWSON POINT},$$
$$\big(l^{14} - l^{12} r^2 - 7 l^{10} r^4 - l^8 r^6 + 11 l^6 r^8 + 5 l^4 r^{10} - 5 l^2 r^{12} - 3 r^{14} - 40 l^{12} r R + 152 l^{10} r^3 R - 336 l^8 r^5 R + 656 l^6 r^7 R - 552 l^4 r^9 R + 216 l^2 r^{11} R - 96 r^{13} R - 8 l^{12} R^2 + 608 l^{10} r^2 R^2 - 2536 l^8 r^4 R^2 + 5728 l^6 r^6 R^2 - 7160 l^4 r^8 R^2 + 4160 l^2 r^{10} R^2 - 1304 r^{12} R^2 + 288 l^{10} r R^3 - 5792 l^8 r^3 R^3 + 21120 l^6 r^5 R^3 - 36992 l^4 r^7 R^3 + 29792 l^2 r^9 R^3 - 9952 r^{11} R^3 + 16 l^{10} R^4 - 3792 l^8 r^2 R^4 + 36848 l^6 r^4 R^4 - 100848 l^4 r^6 R^4 + 115008 l^2 r^8 R^4 - 47360 r^{10} R^4 - 512 l^8 r R^5 + 27136 l^6 r^3 R^5 - 151808 l^4 r^5 R^5 + 264576 l^2 r^7 R^5 - 146816 r^9 R^5 + 5760 l^6 r^2 R^6 - 115136 l^4 r^4 R^6 + 365184 l^2 r^6 R^6 - 299072 r^8 R^6 - 31744 l^4 r^3 R^7 + 278272 l^2 r^5 R^7 - 389888 r^7 R^7 + 88320 l^2 r^4 R^8 - 297984 r^6 R^8 - 102400 r^5 R^9\big) \Big/ \big((l^2 + r^2 - 4 R^2)^2 (l^4 - 4 l^2 r^2 + 3 r^4 - 9 l^2 r R + 19 r^3 R + 28 r^2 R^2)^2\big)\}$$

$$\{X82,\ \text{ISOGONAL CONJUGATE OF } X(38),\ X93,\ \text{ISOGONAL CONJUGATE OF } X(49),$$
$$\big(l^{18} + l^{16} r^2 - 8 l^{14} r^4 - 16 l^{12} r^6 + 2 l^{10} r^8 + 26 l^8 r^{10} + 16 l^6 r^{12} - 8 l^4 r^{14} - 11 l^2 r^{16} - 3 r^{18} - 40 l^{16} r R + 8 l^{14} r^3 R + 184 l^{12} r^5 R + 72 l^{10} r^7 R - 88 l^8 r^9 R + 88 l^6 r^{11} R + 40 l^4 r^{13} R - 168 l^2 r^{15} R - 96 r^{17} R - 10 l^{16} R^2 + 588 l^{14} r^2 R^2 + 212 l^{12} r^4 R^2 - 3652 l^{10} r^6 R^2 + 4768 l^8 r^8 R^2 - 4828 l^6 r^{10} R^2 + 3564 l^4 r^{12} R^2 - 1324 l^2 r^{14} R^2 - 1366 r^{16} R^2 + 366 l^{14} r R^3 - 4446 l^{12} r^3 R^3 - 9602 l^{10} r^5 R^3 + 46690 l^8 r^7 R^3 - 65350 l^6 r^9 R^3 + 47958 l^4 r^{11} R^3 - 10406 l^2 r^{13} R^3 - 11354 r^{15} R^3 + 32 l^{14} R^4 - 4688 l^{12} r^2 R^4 + 11952 l^{10} r^4 R^4 + 123520 l^8 r^6 R^4 - 331520 l^6 r^8 R^4 + 316464 l^4 r^{10} R^4 - 80080 l^2 r^{12} R^4 - 60768 r^{14} R^4 - 1074 l^{12} r R^5 + 27652 l^{10} r^3 R^5 + 81674 l^8 r^5 R^5 - 793320 l^6 r^7 R^5 + 1188770 l^4 r^9 R^5 - 438556 l^2 r^{11} R^5 - 216698 r^{13} R^5 - 34 l^{12} R^6 + 11652 l^{10} r^2 R^6 - 42694 l^8 r^4 R^6 - 887080 l^6 r^6 R^6 + 2626642 l^4 r^8 R^6 - 1551196 l^2 r^{10} R^6 - 509034 r^{12} R^6 + 1078 l^{10} r R^7 - 50418 l^8 r^3 R^7 - 384252 l^6 r^5 R^7 + 3345684 l^4 r^7 R^7 - 3508282 l^2 r^9 R^7 - 721186 r^{11} R^7 + 7 l^{10} R^8 - 9669 l^8 r^2 R^8 + 2082 l^6 r^4 R^8 + 2283514 l^4 r^6 R^8 - 4995113 l^2 r^8 R^8 - 379957 r^{10} R^8 - 258 l^8 r R^9 + 26304 l^6 r^3 R^9 + 702996 l^4 r^5 R^9 - 4267776 l^2 r^7 R^9 + 593454 r^9 R^9 + 4 l^8 R^{10} + 1652 l^6 r^2 R^{10} + 61028 l^4 r^4 R^{10} - 1974196 l^2 r^6 R^{10} + 1350104 r^8 R^{10} - 72 l^6 r R^{11} + 1240 l^4 r^3 R^{11} - 402440 l^2 r^5 R^{11} + 1119864 r^7 R^{11} + 548 l^4 r^2 R^{12} - 30088 l^2 r^4 R^{12} + 410372 r^6 R^{12} - 2016 l^2 r^3 R^{13} + 48032 r^5 R^{13} + 3136 r^4 R^{14}\big) \Big/ \big((l^4 - 4 l^2 r^2 + 3 r^4 - 9 l^2 r R + 19 r^3 R + 28 r^2 R^2)^2 (l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 8 l^2 R^2 + 24 r^2 R^2 + 32 r R^3 + 13 R^4)^2\big)\}$$

{X82, ISOGONAL CONJUGATE OF X(38), X94, ISOGONAL CONJUGATE OF X(50),

$$\left(l^{18}+l^{16}r^2-8l^{14}r^4-16l^{12}r^6+2l^{10}r^8+26l^8r^{10}+16l^6r^{12}-8l^4r^{14}-11l^2r^{16}-3r^{18}-40l^{16}rR+8l^{14}r^3R+184l^{12}r^5R+72l^{10}r^7R-88l^8r^9R+88l^6r^{11}R+40l^4r^{13}R-168l^2r^{15}R-96r^{17}R-12l^{16}R^2+588l^{14}r^2R^2+228l^{12}r^4R^2-3636l^{10}r^6R^2+4748l^8r^8R^2-4860l^6r^{10}R^2+3564l^4r^{12}R^2-1308l^2r^{14}R^2-1360r^{16}R^2+444l^{14}rR^3-4504l^{12}r^3R^3-9860l^{10}r^5R^3+46696l^8r^7R^3-65356l^6r^9R^3+47832l^4r^{11}R^3-10220l^2r^{13}R^3-11176r^{15}R^3+54l^{14}R^4-5898l^{12}r^2R^4+13110l^{10}r^4R^4+124198l^8r^6R^4-331182l^6r^8R^4+315954l^4r^{10}R^4-80318l^2r^{12}R^4-58446r^{14}R^4-1836l^{12}rR^5+38028l^{10}r^3R^5+73000l^8r^5R^5-793672l^6r^7R^5+1193924l^4r^9R^5-451780l^2r^{11}R^5-199232r^{13}R^5-108l^{12}R^6+21528l^{10}r^2R^6-95412l^8r^4R^6-859856l^6r^6R^6+2657292l^4r^8R^6-1633608l^2r^{10}R^6-425708r^{12}R^6+3348l^{10}rR^7-115056l^8r^3R^7-235296l^6r^5R^7+3361480l^4r^7R^7-3743924l^2r^9R^7-460824r^{11}R^7+81l^{10}R^8-33831l^8r^2R^8+225990l^6r^4R^8+2108406l^4r^6R^8-5317015l^2r^8R^8+147377r^{10}R^8-2268l^8rR^9+144180l^6r^3R^9+330156l^4r^5R^9-4374996l^2r^7R^9+1240592r^9R^9+19116l^6r^2R^{10}-207900l^4r^4R^{10}-1743660l^2r^6R^{10}+1727772r^8R^{10}-60912l^4r^3R^{11}-131328l^2r^5R^{11}+1067472r^7R^{11}+63504l^2r^4R^{12}+226368r^6R^{12}-20736r^5R^{13}\right)\Big/$$

$$\left(\left(l^4-4l^2r^2+3r^4-9l^2rR+19r^3R+28r^2R^2\right)^2\left(l^4+2l^2r^2+r^4-8l^2rR+8r^3R-12l^2R^2+28r^2R^2+48rR^3+27R^4\right)^2\right)\}$$

{X82, ISOGONAL CONJUGATE OF X(38), X95, CEVAPOINT OF CENTROID AND CIRCUMCENTER,

$$\left(l^{18}+17l^{16}r^2-24l^{14}r^4-128l^{12}r^6-14l^{10}r^8+202l^8r^{10}+96l^6r^{12}-88l^4r^{14}-59l^2r^{16}-3r^{18}-40l^{16}rR-520l^{14}r^3R+760l^{12}r^5R+376l^{10}r^7R-856l^8r^9R+1448l^6r^{11}R+232l^4r^{13}R-1304l^2r^{15}R-96r^{17}R-8l^{16}R^2+544l^{14}r^2R^2+7104l^{12}r^4R^2-11680l^{10}r^6R^2+11312l^8r^8R^2-8736l^6r^{10}R^2+15744l^4r^{12}R^2-12896l^2r^{14}R^2-1384r^{16}R^2+288l^{14}rR^3-3072l^{12}r^3R^3-57664l^{10}r^5R^3+106784l^8r^7R^3-130144l^6r^9R^3+136000l^4r^{11}R^3-76160l^2r^{13}R^3-11872r^{15}R^3+16l^{14}R^4-3792l^{12}r^2R^4-368l^{10}r^4R^4+308528l^8r^6R^4-563984l^6r^8R^4+605136l^4r^{10}R^4-301200l^2r^{12}R^4-67376r^{14}R^4-512l^{12}rR^5+24576l^{10}r^3R^5+108672l^8r^5R^5-1111040l^6r^7R^5+1617408l^4r^9R^5-837120l^2r^{11}R^5-265856r^{13}R^5+5632l^{10}r^2R^6-69376l^8r^4R^6-685824l^6r^6R^6+2505472l^4r^8R^6-1640704l^2r^{10}R^6-744960r^{12}R^6-27648l^8r^3R^7-41984l^6r^5R^7+1958912l^4r^7R^7-2197504l^2r^9R^7-1483776r^{11}R^7+45056l^6r^4R^8+712704l^4r^6R^8-1899520l^2r^8R^8-2060288r^{10}R^8+81920l^4r^5R^9-974848l^2r^7R^9-1900544r^9R^9-245760l^2r^6R^{10}-1048576r^8R^{10}-262144r^7R^{11}\right)\Big/$$

$$\left(\left(l^4-4l^2r^2+3r^4-9l^2rR+19r^3R+28r^2R^2\right)^2\left(l^4+18l^2r^2+r^4-8l^2rR+8r^3R-4l^2R^2+20r^2R^2+16rR^3\right)^2\right)\}$$

{X82, ISOGONAL CONJUGATE OF X(38), X96, ISOGONAL CONJUGATE OF X(52),

$$-\left(\left(l^{18}-15l^{16}r^2+8l^{14}r^4+96l^{12}r^6+18l^{10}r^8-150l^8r^{10}-64l^6r^{12}+72l^4r^{14}+37l^2r^{16}-3r^{18}-38l^{16}rR+484l^{14}r^3R-620l^{12}r^5R-524l^{10}r^7R+680l^8r^9R-980l^6r^{11}R+76l^4r^{13}R+1020l^2r^{15}R-98r^{17}R-12l^{16}R^2+828l^{14}r^2R^2-7380l^{12}r^4R^2+12252l^{10}r^6R^2-9676l^8r^8R^2+8148l^6r^{10}R^2-12668l^4r^{12}R^2+13076l^2r^{14}R^2-1496r^{16}R^2+408l^{14}rR^3-11664l^{12}r^3R^3+71272l^{10}r^5R^3-127552l^8r^7R^3+146408l^6r^9R^3-147920l^4r^{11}R^3+103192l^2r^{13}R^3-14176r^{15}R^3+56l^{14}R^4-7028l^{12}r^2R^4+110432l^{10}r^4R^4-473388l^8r^6R^4+796696l^6r^8R^4-850828l^4r^{10}R^4+556240l^2r^{12}R^4-93012r^{14}R^4-1680l^{12}rR^5+75408l^{10}r^3R^5-716832l^8r^5R^5+2179680l^6r^7R^5-2981648l^4r^9R^5+2136592l^2r^{11}R^5-444224r^{13}R^5-128l^{12}R^6+24192l^{10}r^2R^6-536800l^8r^4R^6+3177408l^6r^6R^6-6628224l^4r^8R^6+5902016l^2r^{10}R^6-1575456r^{12}R^6+3328l^{10}rR^7-208608l^8r^3R^7+2551360l^6r^5R^7-9219968l^4r^7R^7+11566528l^2r^9R^7-4153504r^{11}R^7+144l^{10}R^8-39920l^8r^2R^8+1143392l^6r^4R^8-7807456l^4r^6R^8+15590800l^2r^8R^8-8034736r^{10}R^8-3168l^8rR^9+274176l^6r^3R^9-3928640l^4r^5R^9+13844480l^2r^7R^9-11115104r^9R^9-64l^8R^{10}+30912l^6r^2R^{10}-1122112l^4r^4R^{10}+7729728l^2r^6R^{10}-10578304r^8R^{10}+1152l^6rR^{11}-162176l^4r^3R^{11}+2564224l^2r^5R^{11}-6580096r^7R^{11}-8768l^4r^2R^{12}+454784l^2r^4R^{12}-2519104r^6R^{12}+32256l^2r^3R^{13}-539136r^5R^{13}-50176r^4R^{14}\right)\Big/$$

$$\left(\left(l^4-4l^2r^2+3r^4-9l^2rR+19r^3R+28r^2R^2\right)^2\left(l^4-14l^2r^2+r^4-8l^2rR+8r^3R+16r^2R^2-4R^4\right)^2\right)\right)\}$$

$$\{X82,\ \text{ISOGONAL CONJUGATE OF } X(38),\ X97,\ \text{ISOGONAL CONJUGATE OF } X(53),$$
$$\Big(R\,\big(2\,l^{14}\,r^3-6\,l^{12}\,r^5-30\,l^{10}\,r^7-22\,l^8\,r^9+22\,l^6\,r^{11}+30\,l^4\,r^{13}+6\,l^2\,r^{15}-2\,r^{17}+3\,l^{14}\,r^2\,R-65\,l^{12}\,r^4\,R+$$
$$131\,l^{10}\,r^6\,R+151\,l^8\,r^8\,R-63\,l^6\,r^{10}\,R+229\,l^4\,r^{12}\,R+185\,l^2\,r^{14}\,R-59\,r^{16}\,R+2\,l^{14}\,r\,R^2-92\,l^{12}\,r^3\,R^2+$$
$$806\,l^{10}\,r^5\,R^2-1840\,l^8\,r^7\,R^2+1486\,l^6\,r^9\,R^2-876\,l^4\,r^{11}\,R^2+2314\,l^2\,r^{13}\,R^2-776\,r^{15}\,R^2+l^{14}\,R^3-$$
$$73\,l^{12}\,r^2\,R^3+1165\,l^{10}\,r^4\,R^3-6025\,l^8\,r^6\,R^3+13\,891\,l^6\,r^8\,R^3-14\,499\,l^4\,r^{10}\,R^3+15\,695\,l^2\,r^{12}\,R^3-$$
$$5995\,r^{14}\,R^3-52\,l^{12}\,r\,R^4+1004\,l^{10}\,r^3\,R^4-8432\,l^8\,r^5\,R^4+33\,496\,l^6\,r^7\,R^4-59\,796\,l^4\,r^9\,R^4+$$
$$64\,188\,l^2\,r^{11}\,R^4-30\,152\,r^{13}\,R^4-8\,l^{12}\,R^5+908\,l^{10}\,r^2\,R^5-7084\,l^8\,r^4\,R^5+40\,072\,l^6\,r^6\,R^5-$$
$$118\,960\,l^4\,r^8\,R^5+165\,612\,l^2\,r^{10}\,R^5-103\,324\,r^{12}\,R^5+288\,l^{10}\,r\,R^6-7344\,l^8\,r^3\,R^6+33\,440\,l^6\,r^5\,R^6-$$
$$135\,264\,l^4\,r^7\,R^6+275\,840\,l^2\,r^9\,R^6-245\,040\,r^{11}\,R^6+16\,l^{10}\,R^7-3536\,l^8\,r^2\,R^7+33\,136\,l^6\,r^4\,R^7-$$
$$113\,536\,l^4\,r^6\,R^7+307\,616\,l^2\,r^8\,R^7-399\,568\,r^{10}\,R^7-448\,l^8\,r\,R^8+19\,520\,l^6\,r^3\,R^8-98\,752\,l^4\,r^5\,R^8+$$
$$253\,504\,l^2\,r^7\,R^8-434\,944\,r^9\,R^8+3776\,l^6\,r^2\,R^9-54\,080\,l^4\,r^4\,R^9+170\,432\,l^2\,r^6\,R^9-297\,536\,r^8\,R^9-$$
$$12\,032\,l^4\,r^3\,R^{10}+77\,312\,l^2\,r^5\,R^{10}-115\,456\,r^7\,R^{10}+12\,544\,l^2\,r^4\,R^{11}-23\,552\,r^6\,R^{11}-4096\,r^5\,R^{12}\big)\Big)\Big/$$
$$\Big(\big(l^4-4\,l^2\,r^2+3\,r^4-9\,l^2\,r\,R+19\,r^3\,R+28\,r^2\,R^2\big)^2$$
$$\big(l^4-6\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-7\,l^2\,R^2+23\,r^2\,R^2+28\,r\,R^3+12\,R^4\big)^2\Big)\Big\}$$

$$\{X82,\ \text{ISOGONAL CONJUGATE OF } X(38),\ X98,\ \text{TarryPoint},$$
$$-\Big(\big(l^{14}-l^{12}\,r^2-7\,l^{10}\,r^4-l^8\,r^6+11\,l^6\,r^8+5\,l^4\,r^{10}-5\,l^2\,r^{12}-3\,r^{14}-30\,l^{12}\,r\,R+48\,l^{10}\,r^3\,R+34\,l^8\,r^5\,R-$$
$$48\,l^6\,r^7\,R+70\,l^4\,r^9\,R-74\,r^{13}\,R-4\,l^{12}\,R^2+396\,l^{10}\,r^2\,R^2-784\,l^8\,r^4\,R^2+696\,l^6\,r^6\,R^2-$$
$$580\,l^4\,r^8\,R^2+828\,l^2\,r^{10}\,R^2-808\,r^{12}\,R^2+104\,l^{10}\,r\,R^3-3080\,l^8\,r^3\,R^3+6560\,l^6\,r^5\,R^3-$$
$$7968\,l^4\,r^7\,R^3+7864\,l^2\,r^9\,R^3-5144\,r^{11}\,R^3-1188\,l^8\,r^2\,R^4+15\,600\,l^6\,r^4\,R^4-31\,288\,l^4\,r^6\,R^4+$$
$$34\,544\,l^2\,r^8\,R^4-21\,060\,r^{10}\,R^4+7552\,l^6\,r^3\,R^5-52\,288\,l^4\,r^5\,R^5+83\,712\,l^2\,r^7\,R^5-57\,152\,r^9\,R^5-$$
$$28\,032\,l^4\,r^4\,R^6+108\,288\,l^2\,r^6\,R^6-100\,736\,r^8\,R^6+57\,344\,l^2\,r^5\,R^7-105\,472\,r^7\,R^7-50\,176\,r^6\,R^8\big)\Big)\Big/$$
$$\Big(\big(l^4-14\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R+16\,r^2\,R^2\big)\,\big(l^4-4\,l^2\,r^2+3\,r^4-9\,l^2\,r\,R+19\,r^3\,R+28\,r^2\,R^2\big)^2\Big)\Big)\Big\}$$

$$\{X82,\ \text{ISOGONAL CONJUGATE OF } X(38),\ X99,\ \text{STEINER POINT},$$
$$\big(l^{14}-l^{12}\,r^2-7\,l^{10}\,r^4-l^8\,r^6+11\,l^6\,r^8+5\,l^4\,r^{10}-5\,l^2\,r^{12}-3\,r^{14}-32\,l^{12}\,r\,R+72\,l^{10}\,r^3\,R+$$
$$88\,l^8\,r^5\,R-48\,l^6\,r^7\,R+16\,l^4\,r^9\,R-24\,l^2\,r^{11}\,R-72\,r^{13}\,R+352\,l^{10}\,r^2\,R^2-608\,l^8\,r^4\,R^2-$$
$$832\,l^6\,r^6\,R^2+832\,l^4\,r^8\,R^2-32\,l^2\,r^{10}\,R^2-736\,r^{12}\,R^2-1728\,l^8\,r^3\,R^3+448\,l^6\,r^5\,R^3+5248\,l^4\,r^7\,R^3-$$
$$1088\,l^2\,r^9\,R^3-4160\,r^{11}\,R^3+2816\,l^6\,r^4\,R^4+9280\,l^4\,r^6\,R^4-7872\,l^2\,r^8\,R^4-14\,080\,r^{10}\,R^4+$$
$$5120\,l^4\,r^5\,R^5-18\,944\,l^2\,r^7\,R^5-28\,672\,r^9\,R^5-15\,360\,l^2\,r^6\,R^6-32\,768\,r^8\,R^6-16\,384\,r^7\,R^7\big)\Big/$$
$$\Big(\big(l^4-14\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R+16\,r^2\,R^2\big)\,\big(l^4-4\,l^2\,r^2+3\,r^4-9\,l^2\,r\,R+19\,r^3\,R+28\,r^2\,R^2\big)^2\Big)\Big\}$$

$$\{X82,\ \text{ISOGONAL CONJUGATE OF } X(38),\ X100,\ \text{ANTICOMPLEMENT OF FEUERBACH POINT},$$
$$\Big(R\,\big(-l^{10}+l^8\,r^2-2\,l^6\,r^4-6\,l^4\,r^6+3\,l^2\,r^8+5\,r^{10}+32\,l^8\,r\,R-88\,l^6\,r^3\,R+152\,l^4\,r^5\,R-$$
$$136\,l^2\,r^7\,R+104\,r^9\,R-360\,l^6\,r^2\,R^2+1044\,l^4\,r^4\,R^2-1376\,l^2\,r^6\,R^2+868\,r^8\,R^2+$$
$$1984\,l^4\,r^3\,R^3-4624\,l^2\,r^5\,R^3+3632\,r^7\,R^3-5520\,l^2\,r^4\,R^4+7616\,r^6\,R^4+6400\,r^5\,R^5\big)\Big)\Big/$$
$$\Big((2\,r-R)\,\big(l^4-4\,l^2\,r^2+3\,r^4-9\,l^2\,r\,R+19\,r^3\,R+28\,r^2\,R^2\big)^2\Big)\Big\}$$

$$\Big\{X83,\ \text{CEVAPOINT OF CENTROID AND SYMMEDIAN POINT},\ X84,$$
$$\text{ISOGONAL CONJUGATE OF } X(40),\ -\frac{1}{r^2\,\big(5\,l^4-6\,l^2\,r^2+5\,r^4-40\,l^2\,r\,R+40\,r^3\,R+80\,r^2\,R^2\big)^2}$$
$$\big(9\,l^{10}\,r^2+21\,l^8\,r^4+10\,l^6\,r^6-6\,l^4\,r^8-3\,l^2\,r^{10}+r^{12}-100\,l^{10}\,r\,R-224\,l^6\,r^5\,R+88\,l^4\,r^7\,R-60\,l^2\,r^9\,R+$$
$$40\,r^{11}\,R+100\,l^{10}\,R^2+1520\,l^8\,r^2\,R^2-1640\,l^6\,r^4\,R^2+1696\,l^4\,r^6\,R^2-1084\,l^2\,r^8\,R^2+560\,r^{10}\,R^2-$$
$$1600\,l^8\,r\,R^3-8000\,l^6\,r^3\,R^3+11\,584\,l^4\,r^5\,R^3-8640\,l^2\,r^7\,R^3+3840\,r^9\,R^3-400\,l^8\,R^4+10\,560\,l^6\,r^2\,R^4+$$
$$16\,544\,l^4\,r^4\,R^4-26\,048\,l^2\,r^6\,R^4+13\,680\,r^8\,R^4+6400\,l^6\,r\,R^5-39\,680\,l^4\,r^3\,R^5-6400\,l^2\,r^5\,R^5+20\,224\,r^7\,R^5-$$
$$38\,400\,l^4\,r^2\,R^6+92\,160\,l^2\,r^4\,R^6-17\,920\,r^6\,R^6+102\,400\,l^2\,r^3\,R^7-102\,400\,r^5\,R^7-102\,400\,r^4\,R^8\big)\Big\}$$

{X83, CEVAPOINT OF CENTROID AND SYMMEDIAN POINT, X85, ISOTOMIC CONJUGATE OF X(9),

$$\left(16\left(l^{14}+l^{12}r^2-3l^{10}r^4-3l^8r^6+3l^6r^8+3l^4r^{10}-l^2r^{12}-r^{14}-44l^{12}rR+100l^{10}r^3R-180l^8r^5R+144l^6r^7R+4l^4r^9R+12l^2r^{11}R-36r^{13}R-8l^{12}R^2+664l^{10}r^2R^2-1716l^8r^4R^2+1940l^6r^6R^2-820l^4r^8R^2+676l^2r^{10}R^2-576r^{12}R^2+336l^{10}rR^3-5536l^8r^3R^3+11440l^6r^5R^3-10176l^4r^7R^3+8608l^2r^9R^3-5376r^{11}R^3+16l^{10}R^4-5024l^8r^2R^4+32016l^6r^4R^4-53376l^4r^6R^4+54720l^2r^8R^4-32256r^{10}R^4-640l^8rR^5+37760l^6r^3R^5-139264l^4r^5R^5+198656l^2r^7R^5-129024r^9R^5+9472l^6r^2R^6-168960l^4r^4R^6+416768l^2r^6R^6-344064r^8R^6-65536l^4r^3R^7+466944l^2r^5R^7-589824r^7R^7+212992l^2r^4R^8-589824r^6R^8-262144r^5R^9\right)\right)\Big/\left(\left(l^2+r^2+8rR+16R^2\right)^2\left(5l^4-6l^2r^2+5r^4-40l^2rR+40r^3R+80r^2R^2\right)^2\right)\}$$

{X83, CEVAPOINT OF CENTROID AND SYMMEDIAN POINT, X86, CEVAPOINT OF INCENTER AND CENTROID,

$$-\left(\left(16r^2\left(21l^{10}r^2+5l^8r^4-46l^6r^6-22l^4r^8+9l^2r^{10}+r^{12}-16l^{10}rR+156l^8r^3R-304l^6r^5R-344l^4r^7R+160l^2r^9R+28r^{11}R-16l^{10}R^2+12l^8r^2R^2-412l^6r^4R^2-1932l^4r^6R^2+1148l^2r^8R^2+336r^{10}R^2+320l^8rR^3-128l^6r^3R^3-4800l^4r^5R^3+4288l^2r^7R^3+2240r^9R^3-832l^6r^2R^4-5568l^4r^4R^4+9088l^2r^6R^4+8960r^8R^4-3584l^4r^3R^5+11264l^2r^5R^5+21504r^7R^5+7168l^2r^4R^6+28672r^6R^6+16384r^5R^7\right)\right)\Big/\left(\left(5l^2+r^2+4rR\right)^2\left(5l^4-6l^2r^2+5r^4-40l^2rR+40r^3R+80r^2R^2\right)^2\right)\right)\}$$

{X83, CEVAPOINT OF CENTROID AND SYMMEDIAN POINT, X87, X(2)-CROSS CONJUGATE OF X(1),

$$\left(l^{18}+l^{16}r^2-12l^{14}r^4-28l^{12}r^6+14l^{10}r^8+126l^8r^{10}+196l^6r^{12}+148l^4r^{14}+57l^2r^{16}+9r^{18}-40l^{16}rR-24l^{14}r^3R+216l^{12}r^5R-56l^{10}r^7R-1048l^8r^9R-712l^6r^{11}R+968l^4r^{13}R+1304l^2r^{15}R+416r^{17}R+656l^{14}r^2R^2+992l^{12}r^4R^2+880l^{10}r^6R^2+4032l^8r^8R^2-1936l^6r^{10}R^2-5920l^4r^{12}R^2+7056l^2r^{14}R^2+7552r^{16}R^2-6016l^{12}r^3R^3-15232l^{10}r^5R^3-29696l^8r^7R^3+48384l^6r^9R^3-33664l^4r^{11}R^3-29056l^2r^{13}R^3+73472r^{15}R^3+31744l^{10}r^4R^4+102912l^8r^6R^4+113664l^4r^{10}R^4-437248l^2r^{12}R^4+426496r^{14}R^4-83968l^8r^5R^5-317440l^6r^7R^5+710656l^4r^9R^5-1730560l^2r^{11}R^5+1519616r^{13}R^5+4096l^6r^6R^6+892928l^4r^8R^6-2977792l^2r^{10}R^6+3211264r^{12}R^6+491520l^4r^7R^7-2064384l^2r^9R^7+3473408r^{11}R^7-458752l^2r^8R^8+851968r^{10}R^8-1048576r^9R^9\right)\Big/\left(\left(l^4+2l^2r^2+r^4-20l^2rR+12r^3R+32r^2R^2\right)^2\left(5l^4-6l^2r^2+5r^4-40l^2rR+40r^3R+80r^2R^2\right)^2\right)\}$$

{X83, CEVAPOINT OF CENTROID AND SYMMEDIAN POINT, X88, ISOGONAL CONJUGATE OF X(44),

$$\left(l^{14}-27l^{12}r^2-159l^{10}r^4-227l^8r^6-21l^6r^8+135l^4r^{10}+51l^2r^{12}-9r^{14}-40l^{12}rR+984l^{10}r^3R+2440l^8r^5R+3856l^6r^7R-4024l^4r^9R+1368l^2r^{11}R-360r^{13}R+712l^{10}r^2R^2-12628l^8r^4R^2-6048l^6r^6R^2-19288l^4r^8R^2+16632l^2r^{10}R^2-5940r^{12}R^2-7936l^8r^3R^3+86160l^6r^5R^3-90672l^4r^7R^3+121584l^2r^9R^3-52560r^{11}R^3+57232l^6r^4R^4-367456l^4r^6R^4+507024l^2r^8R^4-270720r^{10}R^4-271744l^4r^5R^5+1040256l^2r^7R^5-815616r^9R^5+764160l^2r^6R^6-1336320r^8R^6-921600r^7R^7\right)\Big/\left(\left(l^2+3r^2-15rR\right)^2\left(5l^4-6l^2r^2+5r^4-40l^2rR+40r^3R+80r^2R^2\right)^2\right)\}$$

{X83, CEVAPOINT OF CENTROID AND SYMMEDIAN POINT, X89, ISOGONAL CONJUGATE OF X(45),

$$\left(4\left(l^{14}+21l^{12}r^2-15l^{10}r^4-131l^8r^6-117l^6r^8-9l^4r^{10}+3l^2r^{12}-9r^{14}-22l^{12}rR-456l^{10}r^3R+922l^8r^5R+1648l^6r^7R-1234l^4r^9R+216l^2r^{11}R-306r^{13}R+13l^{10}r^2R^2+2819l^8r^4R^2-7206l^6r^6R^2-3154l^4r^8R^2+4761l^2r^{10}R^2-4401r^{12}R^2+1940l^8r^3R^3+408l^6r^5R^3-13632l^4r^7R^3+44808l^2r^9R^3-34740r^{11}R^3-8684l^6r^4R^4-77368l^4r^6R^4+198612l^2r^8R^4-162720r^{10}R^4-33184l^4r^5R^5+398880l^2r^7R^5-452736r^9R^5+275520l^2r^6R^6-693504r^8R^6-451584r^7R^7\right)\right)\Big/\left(\left(2l^2-6r^2+3rR\right)^2\left(5l^4-6l^2r^2+5r^4-40l^2rR+40r^3R+80r^2R^2\right)^2\right)\}$$

{X83, CEVAPOINT OF CENTROID AND SYMMEDIAN POINT, X90, X(3)-CROSS CONJUGATE OF X(1),

$$-\left(\left(9l^{10}r^4+21l^8r^6+10l^6r^8-6l^4r^{10}-3l^2r^{12}+r^{14}-74l^{10}r^3R+66l^8r^5R-188l^6r^7R+60l^4r^9R-90l^2r^{11}R+34r^{13}R+8l^{10}r^2R^2+1144l^8r^4R^2-1856l^6r^6R^2+1680l^4r^8R^2-1256l^2r^{10}R^2+472r^{12}R^2-6l^{10}rR^3+270l^8r^3R^3-7756l^6r^5R^3+11500l^4r^7R^3-8942l^2r^9R^3+3526r^{11}R^3-l^{10}R^4+123l^8r^2R^4-4058l^6r^4R^4+28998l^4r^6R^4-33013l^2r^8R^4+15471r^{10}R^4+40l^8rR^5-1432l^6r^3R^5+21064l^4r^5R^5-60552l^2r^7R^5+40304r^9R^5-592l^6r^2R^6+8064l^4r^4R^6-49040l^2r^6R^6+59296r^8R^6+4096l^4r^3R^7-20992l^2r^5R^7+44288r^7R^7-13312l^2r^4R^8+20224r^6R^8+16384r^5R^9\right)\Big/\left(\left(r^2+2rR-R^2\right)^2\left(5l^4-6l^2r^2+5r^4-40l^2rR+40r^3R+80r^2R^2\right)^2\right)\right)\}$$

{X83, CEVAPOINT OF CENTROID AND SYMMEDIAN POINT, X91, ISOGONAL CONJUGATE OF X(47),

$$\left(16 l^{14} r^2 + 16 l^{12} r^4 - 48 l^{10} r^6 - 48 l^8 r^8 + 48 l^6 r^{10} + 48 l^4 r^{12} - 16 l^2 r^{14} - 16 r^{16} + 8 l^{14} r R - 592 l^{12} r^3 R + 1032 l^{10} r^5 R - 1936 l^8 r^7 R + 2456 l^6 r^9 R - 1072 l^4 r^{11} R + 600 l^2 r^{13} R - 496 r^{15} R + l^{14} R^2 - 405 l^{12} r^2 R^2 + 8445 l^{10} r^4 R^2 - 20561 l^8 r^6 R^2 + 31699 l^6 r^8 R^2 - 27119 l^4 r^{10} R^2 + 15599 l^2 r^{12} R^2 - 6763 r^{14} R^2 - 80 l^{12} r R^3 + 7880 l^{10} r^3 R^3 - 72328 l^8 r^5 R^3 + 168336 l^6 r^7 R^3 - 204960 l^4 r^9 R^3 + 140328 l^2 r^{11} R^3 - 53256 r^{13} R^3 - 4 l^{12} R^4 + 2240 l^{10} r^2 R^4 - 77044 l^8 r^4 R^4 + 404640 l^6 r^6 R^4 - 746796 l^4 r^8 R^4 + 662560 l^2 r^{10} R^4 - 267356 r^{12} R^4 + 208 l^{10} r R^5 - 29808 l^8 r^3 R^5 + 441888 l^6 r^5 R^5 - 1458400 l^4 r^7 R^5 + 1837584 l^2 r^9 R^5 - 891312 r^{11} R^5 + 4 l^{10} R^6 - 4140 l^8 r^2 R^6 + 211016 l^6 r^4 R^6 - 1550392 l^4 r^6 R^6 + 3097588 l^2 r^8 R^6 - 1994588 r^{10} R^6 - 160 l^8 r R^7 + 40160 l^6 r^3 R^7 - 839456 l^4 r^5 R^7 + 3142304 l^2 r^7 R^7 - 2964672 r^9 R^7 + 2368 l^6 r^2 R^8 - 201728 l^4 r^4 R^8 + 1803328 l^2 r^6 R^8 - 2838144 r^8 R^8 - 16384 l^4 r^3 R^9 + 509952 l^2 r^5 R^9 - 1649664 r^7 R^9 + 53248 l^2 r^4 R^{10} - 515072 r^6 R^{10} - 65536 r^5 R^{11}\right) \Big/ \left(\left(5 l^4 - 6 l^2 r^2 + 5 r^4 - 40 l^2 r R + 40 r^3 R + 80 r^2 R^2\right)^2 \left(l^2 r + r^3 - l^2 R + 3 r^2 R + 2 r R^2 + 2 R^3\right)^2\right)\}$$

{X83, CEVAPOINT OF CENTROID AND SYMMEDIAN POINT, X92, CEVAPOINT OF INCENTER AND CLAWSON POINT,

$$\left(16 \left(l^{14} + l^{12} r^2 - 3 l^{10} r^4 - 3 l^8 r^6 + 3 l^6 r^8 + 3 l^4 r^{10} - l^2 r^{12} - r^{14} - 40 l^{12} r R + 66 l^{10} r^3 R - 110 l^8 r^5 R + 156 l^6 r^7 R - 76 l^4 r^9 R + 34 l^2 r^{11} R - 30 r^{13} R - 8 l^{12} R^2 + 567 l^{10} r^2 R^2 - 1325 l^8 r^4 R^2 + 1986 l^6 r^6 R^2 - 1726 l^4 r^8 R^2 + 903 l^2 r^{10} R^2 - 397 r^{12} R^2 + 280 l^{10} r R^3 - 4616 l^8 r^3 R^3 + 10632 l^6 r^5 R^3 - 12696 l^4 r^7 R^3 + 8160 l^2 r^9 R^3 - 3040 r^{11} R^3 + 16 l^{10} R^4 - 3372 l^8 r^2 R^4 + 24456 l^6 r^4 R^4 - 45408 l^4 r^6 R^4 + 38376 l^2 r^8 R^4 - 14836 r^{10} R^4 - 480 l^8 r R^5 + 20592 l^6 r^3 R^5 - 83024 l^4 r^5 R^5 + 103824 l^2 r^7 R^5 - 47824 r^9 R^5 + 4752 l^6 r^2 R^6 - 71136 l^4 r^4 R^6 + 162064 l^2 r^6 R^6 - 101760 r^8 R^6 - 21376 l^4 r^3 R^7 + 134528 l^2 r^5 R^7 - 137728 r^7 R^7 + 45312 l^2 r^4 R^8 - 107520 r^6 R^8 - 36864 r^5 R^9\right)\right) \Big/ \left(\left(l^2 + r^2 - 4 R^2\right)^2 \left(5 l^4 - 6 l^2 r^2 + 5 r^4 - 40 l^2 r R + 40 r^3 R + 80 r^2 R^2\right)^2\right)\}$$

{X83, CEVAPOINT OF CENTROID AND SYMMEDIAN POINT, X93, ISOGONAL CONJUGATE OF X(49),

$$\left(4 \left(4 l^{18} + 12 l^{16} r^2 - 32 l^{12} r^6 - 24 l^{10} r^8 + 24 l^8 r^{10} + 32 l^6 r^{12} - 12 l^2 r^{16} - 4 r^{18} - 144 l^{16} r R - 192 l^{14} r^3 R + 192 l^{12} r^5 R + 192 l^{10} r^7 R - 96 l^8 r^9 R + 192 l^6 r^{11} R + 192 l^4 r^{13} R - 192 l^2 r^{15} R - 144 r^{17} R - 34 l^{16} R^2 + 1656 l^{14} r^2 R^2 + 2168 l^{12} r^4 R^2 - 4984 l^{10} r^6 R^2 + 4692 l^8 r^8 R^2 - 4216 l^6 r^{10} R^2 + 3704 l^4 r^{12} R^2 - 648 l^2 r^{14} R^2 - 2338 r^{16} R^2 + 1088 l^{14} r R^3 - 7040 l^{12} r^3 R^3 - 27648 l^{10} r^5 R^3 + 61376 l^8 r^7 R^3 - 62400 l^6 r^9 R^3 + 33792 l^4 r^{11} R^3 + 7040 l^2 r^{13} R^3 - 22592 r^{15} R^3 + 80 l^{14} R^4 - 10208 l^{12} r^2 R^4 - 17280 l^{10} r^4 R^4 + 236592 l^8 r^6 R^4 - 359344 l^6 r^8 R^4 + 195456 l^4 r^{10} R^4 + 80608 l^2 r^{12} R^4 - 144336 r^{14} R^4 - 2240 l^{12} r R^5 + 23616 l^{10} r^3 R^5 + 353216 l^8 r^5 R^5 - 1077888 l^6 r^7 R^5 + 772032 l^4 r^9 R^5 + 365632 l^2 r^{11} R^5 - 640192 r^{13} R^5 - 22 l^{12} R^6 + 13972 l^{10} r^2 R^6 + 189718 l^8 r^4 R^6 - 1738536 l^6 r^6 R^6 + 2045974 l^4 r^8 R^6 + 884884 l^2 r^{10} R^6 - 2012438 r^{12} R^6 + 528 l^{10} r R^7 + 26800 l^8 r^3 R^7 - 1432928 l^6 r^5 R^7 + 3444064 l^4 r^7 R^7 + 1065808 l^2 r^9 R^7 - 4488720 r^{11} R^7 - 44 l^{10} R^8 + 4924 l^8 r^2 R^8 - 543352 l^6 r^4 R^8 + 3409208 l^4 r^6 R^8 + 151716 l^2 r^8 R^8 - 6980724 r^{10} R^8 + 880 l^8 r R^9 - 95168 l^6 r^3 R^9 + 1774496 l^4 r^5 R^9 - 1198016 l^2 r^7 R^9 - 7252624 r^9 R^9 + 25 l^8 R^{10} - 9648 l^6 r^2 R^{10} + 423342 l^4 r^4 R^{10} - 1378480 l^2 r^6 R^{10} - 4599399 r^8 R^{10} - 400 l^6 r R^{11} + 49424 l^4 r^3 R^{11} - 581392 l^2 r^5 R^{11} - 1417328 r^7 R^{11} + 2400 l^4 r^2 R^{12} - 101248 l^2 r^4 R^{12} - 31392 r^6 R^{12} - 6400 l^2 r^3 R^{13} + 51456 r^5 R^{13} + 6400 r^4 R^{14}\right)\right) \Big/ \left(\left(5 l^4 - 6 l^2 r^2 + 5 r^4 - 40 l^2 r R + 40 r^3 R + 80 r^2 R^2\right)^2 \left(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 8 l^2 R^2 + 24 r^2 R^2 + 32 r R^3 + 13 R^4\right)^2\right)\}$$

{X83, CEVAPOINT OF CENTROID AND SYMMEDIAN POINT,
X94, ISOGONAL CONJUGATE OF X(50),

$$\left(4 \left(2 l^2 - 2 r^2 - 8 r R - 3 R^2\right)^2 \left(l^{14} + 5 l^{12} r^2 + 9 l^{10} r^4 + 5 l^8 r^6 - 5 l^6 r^8 - 9 l^4 r^{10} - 5 l^2 r^{12} - r^{14} - 28 l^{12} r R - 72 l^{10} r^3 R - 36 l^8 r^5 R + 16 l^6 r^7 R - 36 l^4 r^9 R - 72 l^2 r^{11} R - 28 r^{13} R - 6 l^{12} R^2 + 180 l^{10} r^2 R^2 + 502 l^8 r^4 R^2 - 296 l^6 r^6 R^2 + 358 l^4 r^8 R^2 - 396 l^2 r^{10} R^2 - 342 r^{12} R^2 + 144 l^{10} r R^3 + 112 l^8 r^3 R^3 - 3168 l^6 r^5 R^3 + 3296 l^4 r^7 R^3 - 1072 l^2 r^9 R^3 - 2384 r^{11} R^3 + 9 l^{10} R^4 - 693 l^8 r^2 R^4 - 5278 l^6 r^4 R^4 + 11614 l^4 r^6 R^4 - 1899 l^2 r^8 R^4 - 10409 r^{10} R^4 - 180 l^8 r R^5 - 1104 l^6 r^3 R^5 + 19656 l^4 r^5 R^5 - 4176 l^2 r^7 R^5 - 29364 r^9 R^5 + 468 l^6 r^2 R^6 + 13896 l^4 r^4 R^6 - 9068 l^2 r^6 R^6 - 53152 r^8 R^6 + 2016 l^4 r^3 R^7 - 10080 l^2 r^5 R^7 - 59008 r^7 R^7 - 4032 l^2 r^4 R^8 - 36096 r^6 R^8 - 9216 r^5 R^9\right)\right) \Big/ \left(\left(5 l^4 - 6 l^2 r^2 + 5 r^4 - 40 l^2 r R + 40 r^3 R + 80 r^2 R^2\right)^2 \left(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 12 l^2 R^2 + 28 r^2 R^2 + 48 r R^3 + 27 R^4\right)^2\right)\}$$

{X83, CEVAPOINT OF CENTROID AND SYMMEDIAN POINT, X95, CEVAPOINT OF CENTROID AND CIRCUMCENTER,

$$\left(16\left(l^{18}+15 l^{16} r^2-68 l^{14} r^4-284 l^{12} r^6-202 l^{10} r^8+202 l^8 r^{10}+284 l^6 r^{12}+68 l^4 r^{14}-15 l^2 r^{16}-r^{18}-36 l^{16} r R-384 l^{14} r^3 R+1744 l^{12} r^5 R+1664 l^{10} r^7 R-856 l^8 r^9 R+1664 l^6 r^{11} R+1744 l^4 r^{13} R-384 l^2 r^{15} R-36 r^{17} R-8 l^{16} R^2+380 l^{14} r^2 R^2+4360 l^{12} r^4 R^2-17084 l^{10} r^6 R^2+12096 l^8 r^8 R^2-10428 l^6 r^{10} R^2+18312 l^4 r^{12} R^2-4228 l^2 r^{14} R^2-584 r^{16} R^2+256 l^{14} r R^3-928 l^{12} r^3 R^3-31200 l^{10} r^5 R^3+95936 l^8 r^7 R^3-111040 l^6 r^9 R^3+103136 l^4 r^{11} R^3-25952 l^2 r^{13} R^3-5632 r^{15} R^3+16 l^{14} R^4-2608 l^{12} r^2 R^4-9776 l^{10} r^4 R^4+152784 l^8 r^6 R^4-344656 l^6 r^8 R^4+340848 l^4 r^{10} R^4-95632 l^2 r^{12} R^4-35856 r^{14} R^4-448 l^{12} r R^5+9600 l^{10} r^3 R^5+93120 l^8 r^5 R^5-486144 l^6 r^7 R^5+678848 l^4 r^9 R^5-208512 l^2 r^{11} R^5-158144 r^{13} R^5+3648 l^{10} r^2 R^6+8512 l^8 r^4 R^6-365568 l^6 r^6 R^6+817216 l^4 r^8 R^6-229824 l^2 r^{10} R^6-492800 r^{12} R^6-8192 l^8 r^3 R^7-159232 l^6 r^5 R^7+620032 l^4 r^7 R^7-15360 l^2 r^9 R^7-1084416 r^{11} R^7-22528 l^6 r^4 R^8+340992 l^4 r^6 R^8+231424 l^2 r^8 R^8-1650688 r^{10} R^8+98304 l^4 r^5 R^9+180224 l^2 r^7 R^9-1654784 r^9 R^9+16384 l^2 r^6 R^{10}-983040 r^8 R^{10}-262144 r^7 R^{11}\right)\right)\Big/\left(\left(5 l^4-6 l^2 r^2+5 r^4-40 l^2 r R+40 r^3 R+80 r^2 R^2\right)^2\left(l^4+18 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-4 l^2 R^2+20 r^2 R^2+16 r R^3\right)^2\right)\}$$

{X83, CEVAPOINT OF CENTROID AND SYMMEDIAN POINT, X96, ISOGONAL CONJUGATE OF X(52),

$$-\left(\left(4\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-2 l^2 R^2+18 r^2 R^2+8 r R^3\right)^2\left(6 l^{10}-110 l^8 r^2+396 l^6 r^4-396 l^4 r^6+110 l^2 r^8-6 r^{10}-120 l^8 r R+1440 l^6 r^3 R-3024 l^4 r^5 R+1440 l^2 r^7 R-120 r^9 R-51 l^8 R^2+1620 l^6 r^2 R^2-8114 l^4 r^4 R^2+7380 l^2 r^6 R^2-1011 r^8 R^2+816 l^6 r R^3-9936 l^4 r^3 R^3+18896 l^2 r^5 R^3-4656 r^7 R^3+124 l^6 R^4-5732 l^4 r^2 R^4+25604 l^2 r^4 R^4-12700 r^6 R^4-1488 l^4 r R^5+17888 l^2 r^3 R^5-20688 r^5 R^5-100 l^4 R^6+6200 l^2 r^2 R^6-19108 r^4 R^6+800 l^2 r R^7-8736 r^3 R^7-1600 r^2 R^8\right)\right)\Big/\left(\left(5 l^4-6 l^2 r^2+5 r^4-40 l^2 r R+40 r^3 R+80 r^2 R^2\right)^2\left(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2-4 R^4\right)^2\right)\right)\}$$

{X83, CEVAPOINT OF CENTROID AND SYMMEDIAN POINT, X97, ISOGONAL CONJUGATE OF X(53),

$$\left(l^{18}+15 l^{16} r^2-68 l^{14} r^4-284 l^{12} r^6-202 l^{10} r^8+202 l^8 r^{10}+284 l^6 r^{12}+68 l^4 r^{14}-15 l^2 r^{16}-r^{18}-36 l^{16} r R-384 l^{14} r^3 R+1744 l^{12} r^5 R+1664 l^{10} r^7 R-856 l^8 r^9 R+1664 l^6 r^{11} R+1744 l^4 r^{13} R-384 l^2 r^{15} R-36 r^{17} R-4 l^{16} R^2+436 l^{14} r^2 R^2+3464 l^{12} r^4 R^2-17012 l^{10} r^6 R^2+14136 l^8 r^8 R^2-10356 l^6 r^{10} R^2+17416 l^4 r^{12} R^2-4172 l^2 r^{14} R^2-580 r^{16} R^2+128 l^{14} r R^3-2144 l^{12} r^3 R^3-15648 l^{10} r^5 R^3+79808 l^8 r^7 R^3-94912 l^6 r^9 R^3+87584 l^4 r^{11} R^3-24736 l^2 r^{13} R^3-5504 r^{15} R^3-12 l^{14} R^4-1564 l^{12} r^2 R^4+5172 l^{10} r^4 R^4+54404 l^8 r^6 R^4-214020 l^6 r^8 R^4+232588 l^4 r^{10} R^4-84516 l^2 r^{12} R^4-34036 r^{14} R^4+336 l^{12} r R^5+9440 l^{10} r^3 R^5-16976 l^8 r^5 R^5-120768 l^6 r^7 R^5+292272 l^4 r^9 R^5-153376 l^2 r^{11} R^5-143024 r^{13} R^5+32 l^{12} R^6-2544 l^{10} r^2 R^6-24672 l^8 r^4 R^6+47840 l^6 r^6 R^6+67168 l^4 r^8 R^6-71408 l^2 r^{10} R^6-411680 r^{12} R^6-768 l^{10} r R^7+3840 l^8 r^3 R^7+22272 l^6 r^5 R^7-150784 l^4 r^7 R^7+241152 l^2 r^9 R^7-791552 r^{11} R^7+64 l^{10} R^8+4928 l^8 r^2 R^8+5888 l^6 r^4 R^8-50432 l^4 r^6 R^8+429248 l^2 r^8 R^8-933440 r^{10} R^8-1280 l^8 r R^9-6656 l^6 r^3 R^9-14848 l^4 r^5 R^9+202240 l^2 r^7 R^9-488704 r^9 R^9+3328 l^6 r^2 R^{10}-1536 l^4 r^4 R^{10}-19200 l^2 r^6 R^{10}+194560 r^8 R^{10}+14336 l^4 r^3 R^{11}-14336 l^2 r^5 R^{11}+352256 r^7 R^{11}-28672 l^2 r^4 R^{12}+49152 r^6 R^{12}-65536 r^5 R^{13}\right)\Big/\left(\left(5 l^4-6 l^2 r^2+5 r^4-40 l^2 r R+40 r^3 R+80 r^2 R^2\right)^2\left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-7 l^2 R^2+23 r^2 R^2+28 r R^3+12 R^4\right)^2\right)\}$$

{X83, CEVAPOINT OF CENTROID AND SYMMEDIAN POINT, X98, TarryPoint,

$$-\left(\left(4\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)^2\left(6 l^6-26 l^4 r^2+26 l^2 r^4-6 r^6-72 l^4 r R+176 l^2 r^3 R-72 r^5 R-25 l^4 R^2+350 l^2 r^2 R^2-313 r^4 R^2+200 l^2 r R^3-584 r^3 R^3-400 r^2 R^4\right)\right)\Big/\left(\left(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)\left(5 l^4-6 l^2 r^2+5 r^4-40 l^2 r R+40 r^3 R+80 r^2 R^2\right)^2\right)\right)\}$$

{X83, CEVAPOINT OF CENTROID AND SYMMEDIAN POINT, X99, STEINER POINT,

$$\left(16\left(l^{14}+5 l^{12} r^2+9 l^{10} r^4+5 l^8 r^6-5 l^6 r^8-9 l^4 r^{10}-5 l^2 r^{12}-r^{14}-28 l^{12} r R-72 l^{10} r^3 R-36 l^8 r^5 R+16 l^6 r^7 R-36 l^4 r^9 R-72 l^2 r^{11} R-28 r^{13} R+228 l^{10} r^2 R^2+448 l^8 r^4 R^2-488 l^6 r^6 R^2+304 l^4 r^8 R^2-348 l^2 r^{10} R^2-336 r^{12} R^2-512 l^8 r^3 R^3-2112 l^6 r^5 R^3+2240 l^4 r^7 R^3-448 l^2 r^9 R^3-2240 r^{11} R^3-1408 l^6 r^4 R^4+5632 l^4 r^6 R^4+1152 l^2 r^8 R^4-8960 r^{10} R^4+6144 l^4 r^5 R^5+3072 l^2 r^7 R^5-21504 r^9 R^5+1024 l^2 r^6 R^6-28672 r^8 R^6-16384 r^7 R^7\right)\right)\Big/\left(\left(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)\left(5 l^4-6 l^2 r^2+5 r^4-40 l^2 r R+40 r^3 R+80 r^2 R^2\right)^2\right)\}$$

$$\Big\{\text{X83, CEVAPOINT OF CENTROID AND SYMMEDIAN POINT, X100, ANTICOMPLEMENT OF FEUERBACH POINT}, \frac{1}{(2r-R)\left(5l^4-6l^2r^2+5r^4-40l^2rR+40r^3R+80r^2R^2\right)^2}$$
$$4\left(-2l^{10}r-6l^8r^3-4l^6r^5+4l^4r^7+6l^2r^9+2r^{11}-4l^{10}R+49l^8r^2R+44l^6r^4R-26l^4r^6R+32l^2r^8R+49r^{10}R+120l^8rR^2-580l^6r^3R^2+452l^4r^5R^2-396l^2r^7R^2+500r^9R^2-1188l^6r^2R^3+3672l^4r^4R^3-3876l^2r^6R^3+2720r^8R^3+5344l^4r^3R^4-11488l^2r^5R^4+8320r^7R^4-11328l^2r^4R^5+13568r^6R^5+9216r^5R^6\right)\Big\}$$

$$\Big\{\text{X84, ISOGONAL CONJUGATE OF X(40), X85, ISOTOMIC CONJUGATE OF X(9)},$$
$$-\Big(\left(l^6r^2+3l^4r^4+3l^2r^6+r^8-4l^6rR+24l^4r^3R+20l^2r^5R+24r^7R+4l^6R^2-56l^4r^2R^2-28l^2r^4R^2+240r^6R^2-64l^4rR^3-448l^2r^3R^3+1280r^5R^3+112l^4R^4-928l^2r^2R^4+3824r^4R^4-256l^2rR^5+5888r^3R^5+512l^2R^6+2560r^2R^6-4096rR^7-4096R^8\right)\Big/\left(r^2\left(l^2+r^2+8rR+16R^2\right)^2\right)\Big)\Big\}$$

$$\Big\{\text{X84, ISOGONAL CONJUGATE OF X(40), X86, CEVAPOINT OF INCENTER AND CENTROID},$$
$$-\frac{1}{r^2\left(5l^2+r^2+4rR\right)^2}\left(9l^6r^2+19l^4r^4+11l^2r^6+r^8-100l^6rR-16l^4r^3R+68l^2r^5R+16r^7R+100l^6R^2+40l^4r^2R^2+244l^2r^4R^2+96r^6R^2+160l^4rR^3+416l^2r^3R^3+256r^5R^3-400l^4R^4-96l^2r^2R^4+240r^4R^4-640l^2rR^5-128r^3R^5-256r^2R^6\right)\Big\}$$

$$\Big\{\text{X84, ISOGONAL CONJUGATE OF X(40), X87, X(2)-CROSS CONJUGATE OF X(1)}, \frac{1}{r^2\left(l^4+2l^2r^2+r^4-20l^2rR+12r^3R+32r^2R^2\right)^2}$$
$$4R\left(l^{10}r+5l^8r^3+10l^6r^5+10l^4r^7+5l^2r^9+r^{11}-l^{10}R-46l^8r^2R-102l^6r^4R-56l^4r^6R+15l^2r^8R+14r^{10}R+40l^8rR^2+592l^6r^3R^2+64l^4r^5R^2+112l^2r^7R^2+88r^9R^2+4l^8R^3-448l^6r^2R^3-1576l^4r^4R^3+356r^8R^3-160l^6rR^4+1056l^4r^3R^4+672l^2r^5R^4+992r^7R^4+1856l^4r^2R^5-2432l^2r^4R^5+1856r^6R^5-5120l^2r^3R^6+3072r^5R^6+4096r^4R^7\right)\Big\}$$

$$\Big\{\text{X84, ISOGONAL CONJUGATE OF X(40), X88, ISOGONAL CONJUGATE OF X(44)}, \frac{1}{r^2\left(l^2+3r^2-15rR\right)^2}$$
$$R\left(4l^6r+14l^4r^3+18l^2r^5-4l^6R-152l^4r^2R-213l^2r^4R+27r^6R+120l^4rR^2+1524l^2r^3R^2-432r^5R^2+16l^4R^3-804l^2r^2R^3-2016r^4R^3-480l^2rR^4-1440r^3R^4+3600r^2R^5\right)\Big\}$$

$$\Big\{\text{X84, ISOGONAL CONJUGATE OF X(40), X89, ISOGONAL CONJUGATE OF X(45)}, \frac{1}{r^2\left(-2l^2+6r^2-3rR\right)^2}$$
$$R\left(16l^6r-52l^4r^3-36l^2r^5-16l^6R+112l^4r^2R-309l^2r^4R+135r^6R-48l^4rR^2-156l^2r^3R^2+432r^5R^2+64l^4R^3-420l^2r^2R^3+144r^4R^3+192l^2rR^4-576r^3R^4+144r^2R^5\right)\Big\}$$

$$\Big\{\text{X84, ISOGONAL CONJUGATE OF X(40), X90, X(3)-CROSS CONJUGATE OF X(1)},$$
$$\frac{4(2r-R)R^3\left(l^2r^2-3l^2rR+r^3R+l^2R^2+6r^2R^2+8rR^3-4R^4\right)}{r^2\left(r^2+2rR-R^2\right)^2}\Big\}$$

$$\Big\{\text{X84, ISOGONAL CONJUGATE OF X(40), X91, ISOGONAL CONJUGATE OF X(47)}, -\frac{1}{r^2\left(l^2r+r^3-l^2R+3r^2R+2rR^2+2R^3\right)^2}$$
$$\left(l^6r^4+3l^4r^6+3l^2r^8+r^{10}-6l^6r^3R-2l^4r^5R-10l^2r^7R+18r^9R+12l^6r^2R^2-68l^2r^6R^2+120r^8R^2-12l^6rR^3+36l^4r^3R^3-124l^2r^5R^3+388r^7R^3+4l^6R^4-16l^4r^2R^4-184l^2r^4R^4+652r^6R^4+48l^4rR^5-168l^2r^3R^5+568r^5R^5-32l^4R^6+32l^2r^2R^6+224r^4R^6+16l^2rR^7-80r^3R^7+80l^2R^8-224r^2R^8-128rR^9-64R^{10}\right)\Big\}$$

$$\Big\{X84,\ \text{ISOGONAL CONJUGATE OF } X(40),\ X92,\ \text{CEVAPOINT OF INCENTER AND CLAWSON POINT},$$
$$-\frac{1}{r^2\left(l^2+r^2-4R^2\right)^2}\left(l^6 r^2+3 l^4 r^4+3 l^2 r^6+r^8-4 l^6 r R-12 l^2 r^5 R+16 r^7 R+\right.$$
$$4 l^6 R^2-16 l^4 r^2 R^2-44 l^2 r^4 R^2+88 r^6 R^2+32 l^4 r R^3+64 l^2 r^3 R^3+192 r^5 R^3-$$
$$\left.48 l^4 R^4+80 l^2 r^2 R^4+64 r^4 R^4-64 l^2 r R^5-256 r^3 R^5+192 l^2 R^6-128 r^2 R^6-256 R^8\right)\Big\}$$

$$\Big\{X84,\ \text{ISOGONAL CONJUGATE OF } X(40),\ X93,\ \text{ISOGONAL CONJUGATE OF } X(49),$$
$$-\Big(\Big(l^{10} r^2+5 l^8 r^4+10 l^6 r^6+10 l^4 r^8+5 l^2 r^{10}+r^{12}-4 l^{10} r R-32 l^8 r^3 R-48 l^6 r^5 R+8 l^4 r^7 R+$$
$$52 l^2 r^9 R+24 r^{11} R+4 l^{10} R^2+62 l^8 r^2 R^2+188 l^6 r^4 R^2-184 l^4 r^6 R^2+192 l^2 r^8 R^2+$$
$$250 r^{10} R^2+4 l^8 r R^3-228 l^6 r^3 R^3-188 l^4 r^5 R^3+4 l^2 r^7 R^3+1496 r^9 R^3-80 l^8 R^4-$$
$$492 l^6 r^2 R^4+1128 l^4 r^4 R^4-2348 l^2 r^6 R^4+5712 r^8 R^4+612 l^6 r R^5+2712 l^4 r^3 R^5-$$
$$7924 l^2 r^5 R^5+14488 r^7 R^5+616 l^6 R^6-1162 l^4 r^2 R^6-10208 l^2 r^4 R^6+24130 r^6 R^6-$$
$$4892 l^4 r R^7-76 l^2 r^3 R^7+23544 r^5 R^7-2272 l^4 R^8+14347 l^2 r^2 R^8+5575 r^4 R^8+$$
$$13784 l^2 r R^9-17424 r^3 R^9+4004 l^2 R^{10}-23988 r^2 R^{10}-13104 r R^{11}-2704 R^{12}\Big)\Big/$$
$$\left(r^2\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-8 l^2 R^2+24 r^2 R^2+32 r R^3+13 R^4\right)^2\right)\Big)\Big\}$$

$$\Big\{X84,\ \text{ISOGONAL CONJUGATE OF } X(40),\ X94,\ \text{ISOGONAL CONJUGATE OF } X(50),$$
$$-\Big(\Big(l^{10} r^2+5 l^8 r^4+10 l^6 r^6+10 l^4 r^8+5 l^2 r^{10}+r^{12}-4 l^{10} r R-32 l^8 r^3 R-48 l^6 r^5 R+8 l^4 r^7 R+$$
$$52 l^2 r^9 R+24 r^{11} R+4 l^{10} R^2+56 l^8 r^2 R^2+172 l^6 r^4 R^2-196 l^4 r^6 R^2+192 l^2 r^8 R^2+$$
$$252 r^{10} R^2+32 l^8 r R^3-112 l^6 r^3 R^3-184 l^4 r^5 R^3-32 l^2 r^7 R^3+1544 r^9 R^3-112 l^8 R^4-$$
$$814 l^6 r^2 R^4+1210 l^4 r^4 R^4-2914 l^2 r^6 R^4+6182 r^8 R^4+616 l^6 r R^5+3984 l^4 r^3 R^5-$$
$$10656 l^2 r^5 R^5+16952 r^7 R^5+1176 l^6 R^6+144 l^4 r^2 R^6-16108 l^2 r^4 R^6+31564 r^6 R^6-$$
$$8352 l^4 r R^7-4112 l^2 r^3 R^7+35864 r^5 R^7-5760 l^4 R^8+23589 l^2 r^2 R^8+12401 r^4 R^8+$$
$$32796 l^2 r R^9-31344 r^3 R^9+13284 l^2 R^{10}-57168 r^2 R^{10}-41472 r R^{11}-11664 R^{12}\Big)\Big/$$
$$\left(r^2\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-12 l^2 R^2+28 r^2 R^2+48 r R^3+27 R^4\right)^2\right)\Big)\Big\}$$

$$\Big\{X84,\ \text{ISOGONAL CONJUGATE OF } X(40),\ X95,\ \text{CEVAPOINT OF CENTROID AND CIRCUMCENTER},$$
$$-\Big(\Big(l^{10} r^2+21 l^8 r^4+58 l^6 r^6+58 l^4 r^8+21 l^2 r^{10}+r^{12}-4 l^{10} r R-128 l^8 r^3 R-880 l^6 r^5 R+40 l^4 r^7 R+$$
$$308 l^2 r^9 R+24 r^{11} R+4 l^{10} R^2+200 l^8 r^2 R^2+2184 l^6 r^4 R^2-1344 l^4 r^6 R^2+1780 l^2 r^8 R^2+$$
$$248 r^{10} R^2-32 l^8 r R^3-1152 l^6 r^3 R^3-4032 l^4 r^5 R^3+4672 l^2 r^7 R^3+1440 r^9 R^3-48 l^8 R^4-$$
$$1104 l^6 r^2 R^4-1872 l^4 r^4 R^4+3536 l^2 r^6 R^4+5120 r^8 R^4+576 l^6 r R^5+7680 l^4 r^3 R^5-7744 l^2 r^5 R^5+$$
$$11264 r^7 R^5+192 l^6 R^6-512 l^4 r^2 R^6-15168 l^2 r^4 R^6+14208 r^6 R^6-2048 l^4 r R^7-2560 l^2 r^3 R^7+$$
$$6656 r^5 R^7-256 l^4 R^8+7680 l^2 r^2 R^8-6400 r^4 R^8+2048 l^2 r R^9-10240 r^3 R^9-4096 r^2 R^{10}\Big)\Big/$$
$$\left(r^2\left(l^4+18 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-4 l^2 R^2+20 r^2 R^2+16 r R^3\right)^2\right)\Big)\Big\}$$

$$\Big\{X84,\ \text{ISOGONAL CONJUGATE OF } X(40),\ X96,$$
$$\text{ISOGONAL CONJUGATE OF } X(52),\ \frac{1}{r^2\left(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2-4 R^4\right)^2}$$
$$\left(l^{10} r^2-11 l^8 r^4-38 l^6 r^6-38 l^4 r^8-11 l^2 r^{10}+r^{12}-48 l^8 r^3 R+552 l^6 r^5 R-136 l^4 r^7 R-200 l^2 r^9 R+\right.$$
$$24 r^{11} R-4 l^{10} R^2+116 l^8 r^2 R^2-512 l^6 r^4 R^2+400 l^4 r^6 R^2-1532 l^2 r^8 R^2+252 r^{10} R^2+96 l^8 r R^3-$$
$$1648 l^6 r^3 R^3+3680 l^4 r^5 R^3-6384 l^2 r^7 R^3+1504 r^9 R^3+16 l^8 R^4-1368 l^6 r^2 R^4+11624 l^4 r^4 R^4-$$
$$16104 l^2 r^6 R^4+5576 r^8 R^4-352 l^6 r R^5+9920 l^4 r^3 R^5-26496 l^2 r^5 R^5+13280 r^7 R^5+32 l^6 R^6+$$
$$2336 l^4 r^2 R^6-26944 l^2 r^4 R^6+20480 r^6 R^6-320 l^4 r R^7-9408 l^2 r^3 R^7+19904 r^5 R^7-128 l^4 R^8+$$
$$\left.2512 l^2 r^2 R^8+9744 r^4 R^8+1408 l^2 r R^9-1792 r^3 R^9-64 l^2 R^{10}-3264 r^2 R^{10}-256 r R^{11}+256 R^{12}\right)\Big\}$$

$$\Big\{X84,\ \text{ISOGONAL CONJUGATE OF } X(40),\ X97,\ \text{ISOGONAL CONJUGATE OF } X(53),$$
$$-\Big(\Big(R\left(-4 l^{10} r+36 l^8 r^3-76 l^6 r^5+12 l^4 r^7+4 l^{10} R+22 l^8 r^2 R-222 l^6 r^4 R+194 l^4 r^6 R-\right.$$
$$14 l^2 r^8 R-8 l^8 r R^2-272 l^6 r^3 R^2+740 l^4 r^5 R^2-176 l^2 r^7 R^2+4 r^9 R^2-72 l^8 R^3+$$
$$213 l^6 r^2 R^3+783 l^4 r^4 R^3-717 l^2 r^6 R^3+49 r^8 R^3+636 l^6 r R^4-1104 l^4 r^3 R^4-$$
$$644 l^2 r^5 R^4+184 r^7 R^4+516 l^6 R^5-4000 l^4 r^2 R^5+3348 l^2 r^4 R^5-152 r^6 R^5-$$
$$4352 l^4 r R^6+11616 l^2 r^3 R^6-3360 r^5 R^6-1840 l^4 R^7+16336 l^2 r^2 R^7-11776 r^4 R^7+$$
$$\left.11456 l^2 r R^8-20864 r^3 R^8+3264 l^2 R^9-20608 r^2 R^9-10752 r R^{10}-2304 R^{11}\right)\Big)\Big/$$
$$\left(r^2\left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-7 l^2 R^2+23 r^2 R^2+28 r R^3+12 R^4\right)^2\right)\Big)\Big\}$$

$$\{X84,\ \text{ISOGONAL CONJUGATE OF } X(40),\ X98,\ \text{TarryPoint},$$
$$\left(l^6 r^2 + 3 l^4 r^4 + 3 l^2 r^6 + r^8 - 40 l^4 r^3 R + 8 l^2 r^5 R + 16 r^7 R - 4 l^6 R^2 + 60 l^4 r^2 R^2 - 44 l^2 r^4 R^2 + 100 r^6 R^2 + 48 l^4 r R^3 - 160 l^2 r^3 R^3 + 304 r^5 R^3 + 16 l^4 R^4 - 416 l^2 r^2 R^4 + 464 r^4 R^4 - 128 l^2 r R^5 + 384 r^3 R^5 + 256 r^2 R^6\right) \Big/ \left(r^2 \left(l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\right)\right)\}$$

$$\{X84,\ \text{ISOGONAL CONJUGATE OF } X(40),\ X99,\ \text{STEINER POINT},$$
$$-\left(\left(l^6 r^2 + 3 l^4 r^4 + 3 l^2 r^6 + r^8 - 4 l^6 r R + 16 l^4 r^3 R + 4 l^2 r^5 R + 16 r^7 R + 4 l^6 R^2 - 24 l^4 r^2 R^2 - 12 l^2 r^4 R^2 + 96 r^6 R^2 - 32 l^4 r R^3 + 96 l^2 r^3 R^3 + 256 r^5 R^3 - 16 l^4 R^4 + 288 l^2 r^2 R^4 + 240 r^4 R^4 + 128 l^2 r R^5 - 128 r^3 R^5 - 256 r^2 R^6\right) \Big/ \left(r^2 \left(l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\right)\right)\right)\}$$

$$\{X84,\ \text{ISOGONAL CONJUGATE OF } X(40),\ X100,\ \text{ANTICOMPLEMENT OF FEUERBACH POINT},$$
$$\frac{R\left(5 l^2 r^2 + r^4 - 12 l^2 r R + 8 r^3 R + 4 l^2 R^2 + 16 r^2 R^2 + 32 r R^3 - 16 R^4\right)}{r^2 (2 r - R)}\}$$

$$\{X85,\ \text{ISOTOMIC CONJUGATE OF } X(9),\ X86,\ \text{CEVAPOINT OF INCENTER AND CENTROID},$$
$$\left(16 l^4 \left(l^6 + 3 l^4 r^2 + 3 l^2 r^4 + r^6 - 28 l^4 r R + 16 l^2 r^3 R + 12 r^5 R - 8 l^4 R^2 + 56 l^2 r^2 R^2 + 48 r^4 R^2 + 176 l^2 r R^3 + 48 r^3 R^3 + 16 l^2 R^4 - 128 r^2 R^4 - 256 r R^5\right)\right) \Big/ \left(\left(5 l^2 + r^2 + 4 r R\right)^2 \left(l^2 + r^2 + 8 r R + 16 R^2\right)^2\right)\}$$

$$\{X85,\ \text{ISOTOMIC CONJUGATE OF } X(9),\ X87,\ X(2)\text{-CROSS CONJUGATE OF } X(1),$$
$$\left(l^{14} + 7 l^{12} r^2 + 21 l^{10} r^4 + 35 l^8 r^6 + 35 l^6 r^8 + 21 l^4 r^{10} + 7 l^2 r^{12} + r^{14} - 56 l^{12} r R - 216 l^{10} r^3 R - 272 l^8 r^5 R - 48 l^6 r^7 R + 168 l^4 r^9 R + 136 l^2 r^{11} R + 32 r^{13} R + 1200 l^{10} r^2 R^2 + 1344 l^8 r^4 R^2 - 736 l^6 r^6 R^2 - 320 l^4 r^8 R^2 + 944 l^2 r^{10} R^2 + 384 r^{12} R^2 + 128 l^{10} r R^3 - 11520 l^8 r^3 R^3 + 9984 l^6 r^5 R^3 - 8704 l^4 r^7 R^3 + 4224 l^2 r^9 R^3 + 1792 r^{11} R^3 - 4864 l^8 r^2 R^4 + 52224 l^6 r^4 R^4 - 56576 l^4 r^6 R^4 + 30208 l^2 r^8 R^4 - 3584 r^{10} R^4 + 63488 l^6 r^3 R^5 - 208896 l^4 r^5 R^5 + 198656 l^2 r^7 R^5 - 86016 r^9 R^5 + 4096 l^6 r^2 R^6 - 344064 l^4 r^4 R^6 + 684032 l^2 r^6 R^6 - 458752 r^8 R^6 - 98304 l^4 r^3 R^7 + 1081344 l^2 r^5 R^7 - 1245184 r^7 R^7 + 589824 l^2 r^4 R^8 - 1769472 r^6 R^8 - 1048576 r^5 R^9\right) \Big/$$
$$\left(\left(l^2 + r^2 + 8 r R + 16 R^2\right)^2 \left(l^4 + 2 l^2 r^2 + r^4 - 20 l^2 r R + 12 r^3 R + 32 r^2 R^2\right)^2\right)\}$$

$$\{X85,\ \text{ISOTOMIC CONJUGATE OF } X(9),\ X88,$$
$$\text{ISOGONAL CONJUGATE OF } X(44),\ \frac{1}{\left(l^2 + 3 r^2 - 15 r R\right)^2 \left(l^2 + r^2 + 8 r R + 16 R^2\right)^2}$$
$$\left(l^{10} + 3 l^8 r^2 - 6 l^6 r^4 - 26 l^4 r^6 - 27 l^2 r^8 - 9 r^{10} - 48 l^8 r R - 168 l^6 r^3 R - 176 l^4 r^5 R - 72 l^2 r^7 R - 144 r^9 R + 744 l^6 r^2 R^2 + 1932 l^4 r^4 R^2 - 144 l^2 r^6 R^2 - 756 r^8 R^2 + 96 l^6 r R^3 - 3488 l^4 r^3 R^3 - 3312 l^2 r^5 R^3 - 720 r^7 R^3 - 2816 l^4 r^2 R^4 - 3312 l^2 r^4 R^4 + 5760 r^6 R^4 + 21888 l^2 r^3 R^5 + 13824 r^5 R^5 + 2304 l^2 r^2 R^6 - 9216 r^4 R^6 - 36864 r^3 R^7\right)\}$$

$$\{X85,\ \text{ISOTOMIC CONJUGATE OF } X(9),\ X89,$$
$$\text{ISOGONAL CONJUGATE OF } X(45),\ \frac{1}{\left(2 l^2 - 6 r^2 + 3 r R\right)^2 \left(l^2 + r^2 + 8 r R + 16 R^2\right)^2}$$
$$4\left(l^{10} + 3 l^8 r^2 - 6 l^6 r^4 - 26 l^4 r^6 - 27 l^2 r^8 - 9 r^{10} - 18 l^8 r R + 180 l^6 r^3 R - 296 l^4 r^5 R - 180 l^2 r^7 R - 198 r^9 R + 45 l^6 r^2 R^2 - 183 l^4 r^4 R^2 - 117 l^2 r^6 R^2 - 1809 r^8 R^2 + 48 l^6 r R^3 - 716 l^4 r^3 R^3 + 792 l^2 r^5 R^3 - 8820 r^7 R^3 - 560 l^4 r^2 R^4 + 468 l^2 r^4 R^4 - 24480 r^6 R^4 + 288 l^2 r^3 R^5 - 38016 r^5 R^5 + 576 l^2 r^2 R^6 - 29952 r^4 R^6 - 9216 r^3 R^7\right)\}$$

$$\{X85,\ \text{ISOTOMIC CONJUGATE OF } X(9),\ X90,$$
$$X(3)\text{-CROSS CONJUGATE OF } X(1),\ -\frac{1}{\left(r^2 + 2 r R - R^2\right)^2 \left(l^2 + r^2 + 8 r R + 16 R^2\right)^2}$$
$$\left(l^6 r^4 + 3 l^4 r^6 + 3 l^2 r^8 + r^{10} - 2 l^6 r^3 R + 30 l^4 r^5 R + 26 l^2 r^7 R + 26 r^9 R + 48 l^4 r^4 R^2 + 288 r^8 R^2 + 2 l^6 r R^3 - 46 l^4 r^3 R^3 - 594 l^2 r^5 R^3 + 1758 r^7 R^3 - l^6 R^4 - 27 l^4 r^2 R^4 - 1891 l^2 r^4 R^4 + 6359 r^6 R^4 - 8 l^4 r R^5 - 1464 l^2 r^3 R^5 + 13488 r^5 R^5 + 720 l^2 r^2 R^6 + 15008 r^4 R^6 + 5376 r^3 R^7 - 2304 r^2 R^8\right)\}$$

$$\left\{\text{X85, ISOTOMIC CONJUGATE OF X(9), X91, ISOGONAL CONJUGATE OF X(47)},\right.$$

$$\frac{1}{\left(l^2+r^2+8\,r\,R+16\,R^2\right)^2\left(l^2\,r+r^3-l^2\,R+3\,r^2\,R+2\,r\,R^2+2\,R^3\right)^2}$$

$$R^2\left(l^{10}+17\,l^8\,r^2+42\,l^6\,r^4+34\,l^4\,r^6+5\,l^2\,r^8-3\,r^{10}+88\,l^6\,r^3\,R-152\,l^4\,r^5\,R+200\,l^2\,r^7\,R-72\,r^9\,R-\right.$$
$$4\,l^8\,R^2-408\,l^6\,r^2\,R^2-1536\,l^4\,r^4\,R^2+1976\,l^2\,r^6\,R^2-732\,r^8\,R^2-16\,l^6\,r\,R^3-1552\,l^4\,r^3\,R^3+$$
$$8080\,l^2\,r^5\,R^3-4080\,r^7\,R^3+4\,l^6\,R^4+1708\,l^4\,r^2\,R^4+14444\,l^2\,r^4\,R^4-13436\,r^6\,R^4+32\,l^4\,r\,R^5+$$
$$\left.\left.8288\,l^2\,r^3\,R^5-26048\,r^5\,R^5-2368\,l^2\,r^2\,R^6-27264\,r^4\,R^6-11264\,r^3\,R^7+1024\,r^2\,R^8\right)\right\}$$

$$\left\{\text{X85, ISOTOMIC CONJUGATE OF X(9), X92,}\right.$$

$$\text{CEVAPOINT OF INCENTER AND CLAWSON POINT},\ \frac{1}{\left(l^2+r^2-4\,R^2\right)^2\left(l^2+r^2+8\,r\,R+16\,R^2\right)^2}$$

$$16\,R^2\left(3\,l^6\,r^2+5\,l^4\,r^4+l^2\,r^6-r^8+16\,l^6\,r\,R-40\,l^4\,r^3\,R+48\,l^2\,r^5\,R-24\,r^7\,R+16\,l^6\,R^2-\right.$$
$$332\,l^4\,r^2\,R^2+496\,l^2\,r^4\,R^2-244\,r^6\,R^2-544\,l^4\,r\,R^3+2096\,l^2\,r^3\,R^3-1360\,r^5\,R^3-128\,l^4\,R^4+$$
$$\left.\left.3984\,l^2\,r^2\,R^4-4480\,r^4\,R^4+2944\,l^2\,r\,R^5-8704\,r^3\,R^5+256\,l^2\,R^6-9216\,r^2\,R^6-4096\,r\,R^7\right)\right\}$$

$$\left\{\text{X85, ISOTOMIC CONJUGATE OF X(9), X93, ISOGONAL CONJUGATE OF X(49)},\right.$$

$$\left(4\,R^2\left(48\,l^{10}\,r^2+80\,l^8\,r^4+16\,l^6\,r^6-16\,l^4\,r^8+148\,l^{10}\,r\,R-888\,l^8\,r^3\,R+608\,l^6\,r^5\,R-392\,l^4\,r^7\,R+\right.\right.$$
$$12\,l^2\,r^9\,R+90\,l^{10}\,R^2-3770\,l^8\,r^2\,R^2+6964\,l^6\,r^4\,R^2-4228\,l^4\,r^6\,R^2+306\,l^2\,r^8\,R^2-2\,r^{10}\,R^2-$$
$$3708\,l^8\,r\,R^3+28092\,l^6\,r^3\,R^3-25164\,l^4\,r^5\,R^3+3396\,l^2\,r^7\,R^3-56\,r^9\,R^3-852\,l^8\,R^4+$$
$$42448\,l^6\,r^2\,R^4-85632\,l^4\,r^4\,R^4+21168\,l^2\,r^6\,R^4-684\,r^8\,R^4+23588\,l^6\,r\,R^5-160672\,l^4\,r^3\,R^5+$$
$$80028\,l^2\,r^5\,R^5-4768\,r^7\,R^5+2570\,l^6\,R^6-150590\,l^4\,r^2\,R^6+185382\,l^2\,r^4\,R^6-20818\,r^6\,R^6-$$
$$57340\,l^4\,r\,R^7+253284\,l^2\,r^3\,R^7-58728\,r^5\,R^7-2535\,l^4\,R^8+184350\,l^2\,r^2\,R^8-106303\,r^4\,R^8+$$
$$\left.\left.55344\,l^2\,r\,R^9-118000\,r^3\,R^9+480\,l^2\,R^{10}-72096\,r^2\,R^{10}-18176\,r\,R^{11}+256\,R^{12}\right)\right)\Big/$$
$$\left.\left.\left(\left(l^2+r^2+8\,r\,R+16\,R^2\right)^2\left(l^4+2\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-8\,l^2\,R^2+24\,r^2\,R^2+32\,r\,R^3+13\,R^4\right)^2\right)\right\}$$

$$\left\{\text{X85, ISOTOMIC CONJUGATE OF X(9), X94, ISOGONAL CONJUGATE OF X(50)},\right.$$

$$\left(4\,R^2\left(48\,l^{10}\,r^2+80\,l^8\,r^4+16\,l^6\,r^6-16\,l^4\,r^8+176\,l^{10}\,r\,R-856\,l^8\,r^3\,R+600\,l^6\,r^5\,R-392\,l^4\,r^7\,R+\right.\right.$$
$$24\,l^2\,r^9\,R+121\,l^{10}\,R^2-4365\,l^8\,r^2\,R^2+7674\,l^6\,r^4\,R^2-4618\,l^4\,r^6\,R^2+621\,l^2\,r^8\,R^2-$$
$$9\,r^{10}\,R^2-5004\,l^8\,r\,R^3+33784\,l^6\,r^3\,R^3-31144\,l^4\,r^5\,R^3+7128\,l^2\,r^7\,R^3-252\,r^9\,R^3-$$
$$1254\,l^8\,R^4+57504\,l^6\,r^2\,R^4-119588\,l^4\,r^4\,R^4+46416\,l^2\,r^6\,R^4-3078\,r^8\,R^4+36480\,l^6\,r\,R^5-$$
$$250264\,l^4\,r^3\,R^5+183960\,l^2\,r^5\,R^5-21456\,r^7\,R^5+4833\,l^6\,R^6-261447\,l^4\,r^2\,R^6+446823\,l^2\,r^4\,R^6-$$
$$93681\,r^6\,R^6-112644\,l^4\,r\,R^7+640176\,l^2\,r^3\,R^7-264276\,r^5\,R^7-8208\,l^4\,R^8+490356\,l^2\,r^2\,R^8-$$
$$\left.\left.478368\,r^4\,R^8+158112\,l^2\,r\,R^9-531072\,r^3\,R^9+5184\,l^2\,R^{10}-324864\,r^2\,R^{10}-82944\,r\,R^{11}\right)\right)\Big/$$
$$\left.\left.\left(\left(l^2+r^2+8\,r\,R+16\,R^2\right)^2\left(l^4+2\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-12\,l^2\,R^2+28\,r^2\,R^2+48\,r\,R^3+27\,R^4\right)^2\right)\right\}$$

$$\left\{\text{X85, ISOTOMIC CONJUGATE OF X(9), X95, CEVAPOINT OF CENTROID AND CIRCUMCENTER},\right.$$

$$-\left(\left(64\,l^4\,R\left(6\,l^6\,r^3+106\,l^4\,r^5-30\,l^2\,r^7-2\,r^9+l^6\,r^2\,R-65\,l^4\,r^4\,R-181\,l^2\,r^6\,R-\right.\right.\right.$$
$$51\,r^8\,R-8\,l^6\,r\,R^2-160\,l^4\,r^3\,R^2+120\,l^2\,r^5\,R^2-496\,r^7\,R^2-4\,l^6\,R^3+120\,l^4\,r^2\,R^3+$$
$$1620\,l^2\,r^4\,R^3-2344\,r^6\,R^3+160\,l^4\,r\,R^4+336\,l^2\,r^3\,R^4-5424\,r^5\,R^4+32\,l^4\,R^5-$$
$$\left.\left.1456\,l^2\,r^2\,R^5-4672\,r^4\,R^5-768\,l^2\,r\,R^6+1856\,r^3\,R^6-64\,l^2\,R^7+3584\,r^2\,R^7+1024\,r\,R^8\right)\right)\Big/$$
$$\left.\left.\left(\left(l^2+r^2+8\,r\,R+16\,R^2\right)^2\left(l^4+18\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-4\,l^2\,R^2+20\,r^2\,R^2+16\,r\,R^3\right)^2\right)\right)\right\}$$

$$\left\{\text{X85, ISOTOMIC CONJUGATE OF X(9), X96, ISOGONAL CONJUGATE OF X(52)},\right.$$

$$-\left(\left(4\,R\left(12\,l^{12}\,r-244\,l^{10}\,r^3+1112\,l^8\,r^5-584\,l^6\,r^7+92\,l^4\,r^9-4\,l^2\,r^{11}+5\,l^{12}\,R-290\,l^{10}\,r^2\,R+\right.\right.\right.$$
$$2579\,l^8\,r^4\,R-5004\,l^6\,r^6\,R+1291\,l^4\,r^8\,R-50\,l^2\,r^{10}\,R-3\,r^{12}\,R-80\,l^{10}\,r\,R^2+2096\,l^8\,r^3\,R^2-$$
$$11056\,l^6\,r^5\,R^2+5488\,l^4\,r^7\,R^2+192\,l^2\,r^9\,R^2-96\,r^{11}\,R^2-16\,l^{10}\,R^3-144\,l^8\,r^2\,R^3+$$
$$3264\,l^6\,r^4\,R^3-1376\,l^4\,r^6\,R^3+7184\,l^2\,r^8\,R^3-1360\,r^{10}\,R^3-960\,l^8\,r\,R^4+24864\,l^6\,r^3\,R^4-$$
$$72384\,l^4\,r^5\,R^4+57504\,l^2\,r^7\,R^4-11200\,r^9\,R^4-352\,l^8\,R^5+24240\,l^6\,r^2\,R^5-202208\,l^4\,r^4\,R^5+$$
$$235760\,l^2\,r^6\,R^5-59168\,r^8\,R^5+11456\,l^6\,r\,R^6-228416\,l^4\,r^3\,R^6+556032\,l^2\,r^5\,R^6-$$
$$208640\,r^7\,R^6+2592\,l^6\,R^7-129568\,l^4\,r^2\,R^7+760224\,l^2\,r^4\,R^7-495136\,r^6\,R^7-41792\,l^4\,r\,R^8+$$
$$584640\,l^2\,r^3\,R^8-778880\,r^5\,R^8-7056\,l^4\,R^9+254496\,l^2\,r^2\,R^9-783376\,r^4\,R^9+$$
$$\left.\left.\left.64768\,l^2\,r\,R^{10}-479488\,r^3\,R^{10}+8704\,l^2\,R^{11}-173568\,r^2\,R^{11}-36864\,r\,R^{12}-4096\,R^{13}\right)\right)\Big/$$
$$\left.\left.\left.\left(\left(l^2+r^2+8\,r\,R+16\,R^2\right)^2\left(l^4-14\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R+16\,r^2\,R^2-4\,R^4\right)^2\right)\right)\right\}$$

$$\{X85,\ \text{ISOTOMIC CONJUGATE OF } X(9),\ X97,\ \text{ISOGONAL CONJUGATE OF } X(53),$$
$$\big(l^{14} - 3 l^{12} r^2 - 15 l^{10} r^4 - 11 l^8 r^6 + 11 l^6 r^8 + 15 l^4 r^{10} + 3 l^2 r^{12} - r^{14} - 36 l^{12} r R + 312 l^{10} r^3 R -$$
$$1052 l^8 r^5 R + 592 l^6 r^7 R + 100 l^4 r^9 R + 120 l^2 r^{11} R - 36 r^{13} R - 12 l^{12} R^2 + 540 l^{10} r^2 R^2 -$$
$$3716 l^8 r^4 R^2 + 5512 l^6 r^6 R^2 - 1028 l^4 r^8 R^2 + 1916 l^2 r^{10} R^2 - 588 r^{12} R^2 + 480 l^{10} r R^3 -$$
$$6928 l^8 r^3 R^3 + 21872 l^6 r^5 R^3 - 14704 l^4 r^7 R^3 + 16816 l^2 r^9 R^3 - 5760 r^{11} R^3 + 84 l^{10} R^4 -$$
$$6724 l^8 r^2 R^4 + 46120 l^6 r^4 R^4 - 74120 l^4 r^6 R^4 + 91780 l^2 r^8 R^4 - 37684 r^{10} R^4 - 3376 l^8 r R^5 +$$
$$58912 l^6 r^3 R^5 - 200928 l^4 r^5 R^5 + 329888 l^2 r^7 R^5 - 173488 r^9 R^5 - 416 l^8 R^6 + 43344 l^6 r^2 R^6 -$$
$$322656 l^4 r^4 R^6 + 800336 l^2 r^6 R^6 - 576672 r^8 R^6 + 15232 l^6 r R^7 - 312192 l^4 r^3 R^7 +$$
$$1314816 l^2 r^5 R^7 - 1396736 r^7 R^7 + 1344 l^6 R^8 - 172352 l^4 r^2 R^8 + 1440064 l^2 r^4 R^8 -$$
$$2455104 r^6 R^8 - 45312 l^4 r R^9 + 1011200 l^2 r^3 R^9 - 3077376 r^5 R^9 - 3072 l^4 R^{10} + 419072 l^2 r^2 R^{10} -$$
$$2656256 r^4 R^{10} + 83968 l^2 r R^{11} - 1482752 r^3 R^{11} + 4096 l^2 R^{12} - 475136 r^2 R^{12} - 65536 r R^{13}\big) /$$
$$\big((l^2 + r^2 + 8 r R + 16 R^2)^2 (l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 7 l^2 R^2 + 23 r^2 R^2 + 28 r R^3 + 12 R^4)^2\big)\}$$

$$\{X85,\ \text{ISOTOMIC CONJUGATE OF } X(9),\ X98,\ \text{TarryPoint},$$
$$-\big((4 R (12 l^8 r - 76 l^6 r^3 + 36 l^4 r^5 - 4 l^2 r^7 + 7 l^8 R - 116 l^6 r^2 R + 274 l^4 r^4 R -$$
$$52 l^2 r^6 R - r^8 R - 8 l^6 r R^2 + 408 l^4 r^3 R^2 - 184 l^2 r^5 R^2 - 24 r^7 R^2 + 32 l^6 R^3 -$$
$$688 l^4 r^2 R^3 + 256 l^2 r^4 R^3 - 240 r^6 R^3 - 1024 l^4 r R^4 + 2816 l^2 r^3 R^4 - 1280 r^5 R^4 -$$
$$256 l^4 R^5 + 5120 l^2 r^2 R^5 - 3840 r^4 R^5 + 2048 l^2 r R^6 - 6144 r^3 R^6 - 4096 r^2 R^7)) /$$
$$((l^2 + r^2 + 8 r R + 16 R^2)^2 (l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2))\}$$

$$\{X85,\ \text{ISOTOMIC CONJUGATE OF } X(9),\ X99,\ \text{STEINER POINT},$$
$$\frac{64 l^4 R (6 l^2 r^3 - 2 r^5 + 7 l^2 r^2 R - 21 r^4 R + 8 l^2 r R^2 - 76 r^3 R^2 + 4 l^2 R^3 - 112 r^2 R^3 - 64 r R^4)}{(l^2 + r^2 + 8 r R + 16 R^2)^2 (l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2)}\}$$

$$\{X85,\ \text{ISOTOMIC CONJUGATE OF } X(9),\ X100,\ \text{ANTICOMPLEMENT OF FEUERBACH POINT},$$
$$(4 R (-11 l^4 r^2 + 6 l^2 r^4 + r^6 - 8 l^4 r R + 44 l^2 r^3 R + 20 r^5 R + 60 l^2 r^2 R^2 + 160 r^4 R^2 - 96 l^2 r R^3 +$$
$$640 r^3 R^3 - 64 l^2 R^4 + 1280 r^2 R^4 + 1024 r R^5)) / ((2 r - R) (l^2 + r^2 + 8 r R + 16 R^2)^2)\}$$

$$\{X86,\ \text{CEVAPOINT OF INCENTER AND CENTROID},\ X87,\ X(2)\text{-CROSS CONJUGATE OF } X(1),$$
$$((l^2 + r^2 + 4 r R)^2 (l^{10} + 5 l^8 r^2 + 10 l^6 r^4 + 10 l^4 r^6 + 5 l^2 r^8 + r^{10} - 24 l^8 r R - 88 l^6 r^3 R -$$
$$88 l^4 r^5 R - 8 l^2 r^7 R + 16 r^9 R + 112 l^6 r^2 R^2 + 640 l^4 r^4 R^2 - 464 l^2 r^6 R^2 + 32 r^8 R^2 +$$
$$384 l^4 r^3 R^3 - 128 l^2 r^5 R^3 - 512 r^7 R^3 - 1792 l^2 r^4 R^4 - 2816 r^6 R^4 - 4096 r^5 R^5)) /$$
$$((5 l^2 + r^2 + 4 r R)^2 (l^4 + 2 l^2 r^2 + r^4 - 20 l^2 r R + 12 r^3 R + 32 r^2 R^2)^2)\}$$

$$\{X86,\ \text{CEVAPOINT OF INCENTER AND CENTROID},\ X88,\ \text{ISOGONAL CONJUGATE OF } X(44),$$
$$(l^{10} - 21 l^8 r^2 - 126 l^6 r^4 - 194 l^4 r^6 - 99 l^2 r^8 - 9 r^{10} - 16 l^8 r R + 360 l^6 r^3 R - 136 l^4 r^5 R - 72 l^2 r^7 R -$$
$$72 r^9 R + 24 l^6 r^2 R^2 + 844 l^4 r^4 R^2 - 432 l^2 r^6 R^2 - 36 r^8 R^2 - 384 l^4 r^3 R^3 + 1872 l^2 r^5 R^3 +$$
$$720 r^7 R^3 + 144 l^2 r^4 R^4 + 576 r^6 R^4 - 2304 r^5 R^5) / ((l^2 + 3 r^2 - 15 r R)^2 (5 l^2 + r^2 + 4 r R)^2)\}$$

$$\{X86,\ \text{CEVAPOINT OF INCENTER AND CENTROID},\ X89,\ \text{ISOGONAL CONJUGATE OF } X(45),$$
$$(4 (l^{10} + 27 l^8 r^2 - 30 l^6 r^4 - 146 l^4 r^6 - 99 l^2 r^8 - 9 r^{10} + 2 l^8 r R + 12 l^6 r^3 R - 604 l^4 r^5 R - 612 l^2 r^7 R -$$
$$126 r^9 R - 195 l^6 r^2 R^2 - 1559 l^4 r^4 R^2 - 2133 l^2 r^6 R^2 - 657 r^8 R^2 - 1380 l^4 r^3 R^3 - 3312 l^2 r^5 R^3 -$$
$$1548 r^7 R^3 - 1692 l^2 r^4 R^4 - 1584 r^6 R^4 - 576 r^5 R^5)) / ((2 l^2 - 6 r^2 + 3 r R)^2 (5 l^2 + r^2 + 4 r R)^2)\}$$

$$\{X86,\ \text{CEVAPOINT OF INCENTER AND CENTROID},\ X90,$$
$$X(3)\text{-CROSS CONJUGATE OF } X(1),\ -\frac{1}{(5 l^2 + r^2 + 4 r R)^2 (r^2 + 2 r R - R^2)^2}$$
$$(9 l^6 r^4 + 19 l^4 r^6 + 11 l^2 r^8 + r^{10} - 74 l^6 r^3 R + 38 l^4 r^5 R + 98 l^2 r^7 R + 18 r^9 R + 8 l^6 r^2 R^2 +$$
$$64 l^4 r^4 R^2 + 392 l^2 r^6 R^2 + 128 r^8 R^2 - 6 l^6 r R^3 + 370 l^4 r^3 R^3 + 886 l^2 r^5 R^3 + 446 r^7 R^3 -$$
$$l^6 R^4 + 5 l^4 r^2 R^4 + 845 l^2 r^4 R^4 + 743 r^6 R^4 + 16 l^4 r R^5 - 120 l^2 r^3 R^5 + 408 r^5 R^5 - 144 r^4 R^6)\}$$

$$\Big\{\text{X86, CEVAPOINT OF INCENTER AND CENTROID, X91, ISOGONAL CONJUGATE OF X(47)}, \frac{1}{(5 l^2 + r^2 + 4 r R)^2 (l^2 r + r^3 - l^2 R + 3 r^2 R + 2 r R^2 + 2 R^3)^2} \big(16 l^{10} r^2 + 48 l^8 r^4 + 48 l^6 r^6 + 16 l^4 r^8 + 8 l^{10} r R - 304 l^8 r^3 R + 256 l^6 r^5 R + 48 l^4 r^7 R - 8 l^2 r^9 R + l^{10} R^2 - 239 l^8 r^2 R^2 + 682 l^6 r^4 R^2 + 34 l^4 r^6 R^2 - 123 l^2 r^8 R^2 - 3 r^{10} R^2 - 56 l^8 r R^3 + 1800 l^6 r^3 R^3 - 56 l^4 r^5 R^3 - 680 l^2 r^7 R^3 - 48 r^9 R^3 - 4 l^8 R^4 + 792 l^6 r^2 R^4 - 752 l^4 r^4 R^4 - 2104 l^2 r^6 R^4 - 300 r^8 R^4 + 112 l^6 r R^5 - 2224 l^4 r^3 R^5 - 3760 l^2 r^5 R^5 - 912 r^7 R^5 + 4 l^6 R^6 - 724 l^4 r^2 R^6 - 3156 l^2 r^4 R^6 - 1340 r^6 R^6 - 64 l^4 r R^7 - 416 l^2 r^3 R^7 - 736 r^5 R^7 + 64 r^4 R^8\big)\Big\}$$

$$\Big\{\text{X86, CEVAPOINT OF INCENTER AND CENTROID, X92, CEVAPOINT OF INCENTER AND CLAWSON POINT}, \frac{1}{(5 l^2 + r^2 + 4 r R)^2 (l^2 + r^2 - 4 R^2)^2} 16 \big(l^{10} + 3 l^8 r^2 + 3 l^6 r^4 + l^4 r^6 - 24 l^8 r R + 8 l^6 r^3 R - 8 l^8 R^2 + 55 l^6 r^2 R^2 + 5 l^4 r^4 R^2 - 11 l^2 r^6 R^2 - r^8 R^2 + 152 l^6 r R^3 + 48 l^4 r^3 R^3 - 88 l^2 r^5 R^3 - 16 r^7 R^3 + 16 l^6 R^4 - 44 l^4 r^2 R^4 - 336 l^2 r^4 R^4 - 100 r^6 R^4 - 224 l^4 r R^5 - 656 l^2 r^3 R^5 - 304 r^5 R^5 - 496 l^2 r^2 R^6 - 448 r^4 R^6 - 256 r^3 R^7\big)\Big\}$$

$$\Big\{\text{X86, CEVAPOINT OF INCENTER AND CENTROID, X93, ISOGONAL CONJUGATE OF X(49)}, \big(4 \big(4 l^{14} + 20 l^{12} r^2 + 40 l^{10} r^4 + 40 l^8 r^6 + 20 l^6 r^8 + 4 l^4 r^{10} - 80 l^{12} r R - 192 l^{10} r^3 R - 96 l^8 r^5 R + 64 l^6 r^7 R + 48 l^4 r^9 R - 34 l^{12} R^2 - 54 l^{10} r^2 R^2 + 684 l^8 r^4 R^2 - 140 l^6 r^6 R^2 + 182 l^4 r^8 R^2 + 2 l^2 r^{10} R^2 + 568 l^{10} r R^3 + 2720 l^8 r^3 R^3 - 1072 l^6 r^5 R^3 - 96 l^4 r^7 R^3 + 56 l^2 r^9 R^3 + 80 l^{10} R^4 + 1314 l^8 r^2 R^4 - 6220 l^6 r^4 R^4 - 2752 l^4 r^6 R^4 + 604 l^2 r^8 R^4 - 2 r^{10} R^4 - 1144 l^8 r R^5 - 11584 l^6 r^3 R^5 - 6784 l^4 r^5 R^5 + 3360 l^2 r^7 R^5 - 40 r^9 R^5 - 22 l^8 R^6 - 6098 l^6 r^2 R^6 - 2334 l^4 r^4 R^6 + 10322 l^2 r^6 R^6 - 332 r^8 R^6 + 584 l^6 r R^7 + 6992 l^4 r^3 R^7 + 17032 l^2 r^5 R^7 - 1472 r^7 R^7 - 44 l^6 R^8 + 5230 l^4 r^2 R^8 + 13176 l^2 r^4 R^8 - 3730 r^6 R^8 - 40 l^4 r R^9 + 2816 l^2 r^3 R^9 - 5336 r^5 R^9 + 25 l^4 R^{10} - 866 l^2 r^2 R^{10} - 3935 r^4 R^{10} + 40 l^2 r R^{11} - 1144 r^3 R^{11} + 16 r^2 R^{12}\big)\big) / \big((5 l^2 + r^2 + 4 r R)^2 (l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 8 l^2 R^2 + 24 r^2 R^2 + 32 r R^3 + 13 R^4)^2\big)\Big\}$$

$$\Big\{\text{X86, CEVAPOINT OF INCENTER AND CENTROID, X94, ISOGONAL CONJUGATE OF X(50)}, \big(4 \big(4 l^{14} + 20 l^{12} r^2 + 40 l^{10} r^4 + 40 l^8 r^6 + 20 l^6 r^8 + 4 l^4 r^{10} - 80 l^{12} r R - 192 l^{10} r^3 R - 96 l^8 r^5 R + 64 l^6 r^7 R + 48 l^4 r^9 R - 36 l^{12} R^2 - 32 l^{10} r^2 R^2 + 760 l^8 r^4 R^2 - 64 l^6 r^6 R^2 + 204 l^4 r^8 R^2 + 624 l^{10} r R^3 + 2624 l^8 r^3 R^3 - 928 l^6 r^5 R^3 + 192 l^4 r^7 R^3 + 48 l^2 r^9 R^3 + 117 l^{10} R^4 + 591 l^8 r^2 R^4 - 6730 l^6 r^4 R^4 - 1334 l^4 r^6 R^4 + 741 l^2 r^8 R^4 - 9 r^{10} R^4 - 1764 l^8 r R^5 - 11664 l^6 r^3 R^5 - 2152 l^4 r^5 R^5 + 4752 l^2 r^7 R^5 - 180 r^9 R^5 - 162 l^8 R^6 - 3960 l^6 r^2 R^6 + 8016 l^4 r^4 R^6 + 15312 l^2 r^6 R^6 - 1494 r^8 R^6 + 2160 l^6 r R^7 + 17568 l^4 r^3 R^7 + 23952 l^2 r^5 R^7 - 6624 r^7 R^7 + 81 l^6 R^8 + 7857 l^4 r^2 R^8 + 13023 l^2 r^4 R^8 - 16785 r^6 R^8 - 972 l^4 r R^9 - 4536 l^2 r^3 R^9 - 24012 r^5 R^9 - 4860 l^2 r^2 R^{10} - 17712 r^4 R^{10} - 5184 r^3 R^{11}\big)\big) / \big((5 l^2 + r^2 + 4 r R)^2 (l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 12 l^2 R^2 + 28 r^2 R^2 + 48 r R^3 + 27 R^4)^2\big)\Big\}$$

$$\Big\{\text{X86, CEVAPOINT OF INCENTER AND CENTROID, X95, CEVAPOINT OF CENTROID AND CIRCUMCENTER}, \big(16 l^4 \big(l^{10} + 17 l^8 r^2 - 22 l^6 r^4 - 94 l^4 r^6 - 59 l^2 r^8 - 3 r^{10} - 20 l^8 r R - 208 l^6 r^3 R - 120 l^4 r^5 R + 48 l^2 r^7 R - 20 r^9 R - 8 l^8 R^2 - 52 l^6 r^2 R^2 + 548 l^4 r^4 R^2 + 388 l^2 r^6 R^2 + 52 r^8 R^2 + 128 l^6 r R^3 + 1024 l^4 r^3 R^3 + 1216 l^2 r^5 R^3 + 576 r^7 R^3 + 16 l^6 R^4 + 240 l^4 r^2 R^4 + 16 l^2 r^4 R^4 + 688 r^6 R^4 - 192 l^4 r R^5 - 1792 l^2 r^3 R^5 - 1728 r^5 R^5 - 960 l^2 r^2 R^6 - 2816 r^4 R^6 - 1024 r^3 R^7\big)\big) / \big((5 l^2 + r^2 + 4 r R)^2 (l^4 + 18 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 4 l^2 R^2 + 20 r^2 R^2 + 16 r R^3)^2\big)\Big\}$$

$$\{X86, \text{CEVAPOINT OF INCENTER AND CENTROID}, X96, \text{ISOGONAL CONJUGATE OF } X(52),$$
$$-\left(\left(4\left(6 l^{14}-80 l^{12} r^2-58 l^{10} r^4+112 l^8 r^6+50 l^6 r^8-32 l^4 r^{10}+2 l^2 r^{12}-112 l^{12} r R+864 l^{10} r^3 R+\right.\right.\right.$$
$$736 l^8 r^5 R-512 l^6 r^7 R-240 l^4 r^9 R+32 l^2 r^{11} R-75 l^{12} R^2+1542 l^{10} r^2 R^2-1677 l^8 r^4 R^2-$$
$$2684 l^6 r^6 R^2-197 l^4 r^8 R^2+214 l^2 r^{10} R^2-3 r^{12} R^2+1080 l^{10} r R^3-7528 l^8 r^3 R^3-$$
$$5328 l^6 r^5 R^3+3120 l^4 r^7 R^3+792 l^2 r^9 R^3-72 r^{11} R^3+352 l^{10} R^4-7760 l^8 r^2 R^4+$$
$$3792 l^6 r^4 R^4+14640 l^4 r^6 R^4+1488 l^2 r^8 R^4-736 r^{10} R^4-3648 l^8 r R^5+16192 l^6 r^3 R^5+$$
$$29696 l^4 r^5 R^5-1472 l^2 r^7 R^5-4160 r^9 R^5-800 l^8 R^6+13584 l^6 r^2 R^6+21664 l^4 r^4 R^6-$$
$$17072 l^2 r^6 R^6-14112 r^8 R^6+5120 l^6 r R^7+1408 l^4 r^3 R^7-40320 l^2 r^5 R^7-29184 r^7 R^7+$$
$$896 l^6 R^8-4704 l^4 r^2 R^8-40192 l^2 r^4 R^8-35872 r^6 R^8-2176 l^4 r R^9-19712 l^2 r^3 R^9-$$
$$\left.\left.24960 r^5 R^9-400 l^4 R^{10}-5088 l^2 r^2 R^{10}-9744 r^4 R^{10}-640 l^2 r R^{11}-2176 r^3 R^{11}-256 r^2 R^{12}\right)\right)\Big/$$
$$\left.\left.\left(\left(5 l^2+r^2+4 r R\right)^2\left(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2-4 R^4\right)^2\right)\right)\right\}$$

$$\{X86, \text{CEVAPOINT OF INCENTER AND CENTROID}, X97, \text{ISOGONAL CONJUGATE OF } X(53),$$
$$\left(l^{14}+21 l^{12} r^2-119 l^{10} r^4-219 l^8 r^6-5 l^6 r^8+71 l^4 r^{10}-5 l^2 r^{12}-r^{14}-12 l^{12} r R-152 l^{10} r^3 R-\right.$$
$$388 l^8 r^5 R+624 l^6 r^7 R+812 l^4 r^9 R-88 l^2 r^{11} R-28 r^{13} R-4 l^{12} R^2-164 l^{10} r^2 R^2-$$
$$244 l^8 r^4 R^2+3256 l^6 r^6 R^2+3956 l^4 r^8 R^2-756 l^2 r^{10} R^2-348 r^{12} R^2+96 l^8 r^3 R^3+7360 l^6 r^5 R^3+$$
$$10624 l^4 r^7 R^3-4288 l^2 r^9 R^3-2528 r^{11} R^3-12 l^{10} R^4+700 l^8 r^2 R^4+8936 l^6 r^4 R^4+15672 l^4 r^6 R^4-$$
$$17244 l^2 r^8 R^4-11892 r^{10} R^4+240 l^8 r R^5+5312 l^6 r^3 R^5+8352 l^4 r^5 R^5-48192 l^2 r^7 R^5-$$
$$37904 r^9 R^5+32 l^8 R^6+784 l^6 r^2 R^6-8032 l^4 r^4 R^6-89584 l^2 r^6 R^6-83168 r^8 R^6-13440 l^4 r^3 R^7-$$
$$105344 l^2 r^5 R^7-124928 r^7 R^7+64 l^6 R^8-5952 l^4 r^2 R^8-73152 l^2 r^4 R^8-124992 r^6 R^8-$$
$$\left.768 l^4 r R^9-26624 l^2 r^3 R^9-78592 r^5 R^9-3840 l^2 r^2 R^{10}-27648 r^4 R^{10}-4096 r^3 R^{11}\right)\Big/$$
$$\left.\left(\left(5 l^2+r^2+4 r R\right)^2\left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-7 l^2 R^2+23 r^2 R^2+28 r R^3+12 R^4\right)^2\right)\right\}$$

$$\{X86, \text{CEVAPOINT OF INCENTER AND CENTROID}, X98, \text{TarryPoint},$$
$$-\left(\left(4\left(6 l^{10}+4 l^8 r^2-8 l^6 r^4-4 l^4 r^6+2 l^2 r^8-64 l^8 r R-48 l^6 r^3 R+32 l^4 r^5 R+16 l^2 r^7 R-25 l^8 R^2+\right.\right.\right.$$
$$124 l^6 r^2 R^2+114 l^4 r^4 R^2+28 l^2 r^6 R^2-r^8 R^2+160 l^6 r R^3+240 l^4 r^3 R^3-64 l^2 r^5 R^3-$$
$$\left.\left.16 r^7 R^3-96 l^4 r^2 R^4-320 l^2 r^4 R^4-96 r^6 R^4-512 l^2 r^3 R^5-256 r^5 R^5-256 r^4 R^6\right)\right)\Big/$$
$$\left.\left.\left(\left(5 l^2+r^2+4 r R\right)^2\left(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)\right)\right)\right\}$$

$$\{X86, \text{CEVAPOINT OF INCENTER AND CENTROID}, X99, \text{STEINER POINT},$$
$$\left.\frac{16 l^4\left(l^2+5 r^2-16 r R\right)\left(l^2+r^2+2 r R\right)^2}{\left(5 l^2+r^2+4 r R\right)^2\left(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right)}\right\}$$

$$\{X86, \text{CEVAPOINT OF INCENTER AND CENTROID}, X100, \text{ANTICOMPLEMENT OF FEUERBACH POINT},$$
$$\left(4\left(-2 l^6 r-4 l^4 r^3-2 l^2 r^5-4 l^6 R+l^4 r^2 R+6 l^2 r^4 R+r^6 R+56 l^4 r R^2+60 l^2 r^3 R^2+\right.\right.$$
$$\left.\left.12 r^5 R^2+124 l^2 r^2 R^3+48 r^4 R^3+64 r^3 R^4\right)\right)\Big/\left(\left(2 r-R\right)\left(5 l^2+r^2+4 r R\right)^2\right)\}$$

$$\{X87, X(2)\text{-CROSS CONJUGATE OF } X(1), X88, \text{ISOGONAL CONJUGATE OF } X(44),$$
$$\left(r^2 R\left(6 l^{10} r+6 l^8 r^3-36 l^6 r^5-84 l^4 r^7-66 l^2 r^9-18 r^{11}+l^{10} R-271 l^8 r^2 R+154 l^6 r^4 R+\right.\right.$$
$$306 l^4 r^6 R-939 l^2 r^8 R-819 r^{10} R-48 l^8 r R^2+4528 l^6 r^3 R^2-3280 l^4 r^5 R^2+18576 l^2 r^7 R^2-$$
$$6336 r^9 R^2+1056 l^6 r^2 R^3-37088 l^4 r^4 R^3-19488 l^2 r^6 R^3-14112 r^8 R^3-13312 l^4 r^3 R^4+$$
$$\left.165120 l^2 r^5 R^4-16128 r^7 R^4+94464 l^2 r^4 R^5-135936 r^6 R^5-331776 r^5 R^6\right)\Big/$$
$$\left.\left.\left(\left(l^2+3 r^2-15 r R\right)^2\left(l^4+2 l^2 r^2+r^4-20 l^2 r R+12 r^3 R+32 r^2 R^2\right)^2\right)\right)\right\}$$

$$\{X87, X(2)\text{-CROSS CONJUGATE OF } X(1), X89, \text{ISOGONAL CONJUGATE OF } X(45),$$
$$-\left(\left(r^2 R\left(60 l^{10} r+204 l^8 r^3+216 l^6 r^5+24 l^4 r^7-84 l^2 r^9-36 r^{11}-25 l^{10} R-1289 l^8 r^2 R-1066 l^6 r^4 R+\right.\right.\right.$$
$$2238 l^4 r^6 R+2643 l^2 r^8 R+603 r^{10} R-1024 l^6 r^3 R^2-2816 l^4 r^5 R^2-23040 l^2 r^7 R^2+$$
$$11520 r^9 R^2+6240 l^6 r^2 R^3+61664 l^4 r^4 R^3-50016 l^2 r^6 R^3+62496 r^8 R^3+14080 l^4 r^3 R^4-$$
$$\left.\left.251904 l^2 r^5 R^4+168192 r^7 R^4-205056 l^2 r^4 R^5+301824 r^6 R^5+331776 r^5 R^6\right)\right)\Big/$$
$$\left.\left.\left(\left(2 l^2-6 r^2+3 r R\right)^2\left(l^4+2 l^2 r^2+r^4-20 l^2 r R+12 r^3 R+32 r^2 R^2\right)^2\right)\right)\right\}$$

$$\{X87,\ X(2)\text{-CROSS CONJUGATE OF } X(1),\ X90,\ X(3)\text{-CROSS CONJUGATE OF } X(1),$$
$$\big(4 r^2 R \big(l^{10} r + 5 l^8 r^3 + 10 l^6 r^5 + 10 l^4 r^7 + 5 l^2 r^9 + r^{11} - 39 l^8 r^2 R - 84 l^6 r^4 R -$$
$$34 l^4 r^6 R + 28 l^2 r^8 R + 17 r^{10} R - 4 l^8 r R^2 + 428 l^6 r^3 R^2 - 100 l^4 r^5 R^2 + 100 l^2 r^7 R^2 +$$
$$120 r^9 R^2 - l^8 R^3 + 152 l^6 r^2 R^3 - 898 l^4 r^4 R^3 + 176 l^2 r^6 R^3 + 459 r^8 R^3 + 28 l^6 r R^4 -$$
$$1548 l^4 r^3 R^4 + 468 l^2 r^5 R^4 + 1020 r^7 R^4 + 4 l^6 R^5 - 276 l^4 r^2 R^5 + 1420 l^2 r^4 R^5 +$$
$$1188 r^6 R^5 - 96 l^4 r R^6 + 1600 l^2 r^3 R^6 + 160 r^5 R^6 + 576 l^2 r^2 R^7 - 1216 r^4 R^7 - 1024 r^3 R^8\big)\big) /$$
$$\big(\big(r^2 + 2 r R - R^2\big)^2 \big(l^4 + 2 l^2 r^2 + r^4 - 20 l^2 r R + 12 r^3 R + 32 r^2 R^2\big)^2\big)\}$$

$$\{X87,\ X(2)\text{-CROSS CONJUGATE OF } X(1),\ X91,\ \text{ISOGONAL CONJUGATE OF } X(47),$$
$$\big(r^2 \big(l^{14} + 7 l^{12} r^2 + 21 l^{10} r^4 + 35 l^8 r^6 + 35 l^6 r^8 + 21 l^4 r^{10} + 7 l^2 r^{12} + r^{14} - 52 l^{12} r R - 208 l^{10} r^3 R -$$
$$292 l^8 r^5 R - 128 l^6 r^7 R + 68 l^4 r^9 R + 80 l^2 r^{11} R + 20 r^{13} R - 12 l^{12} R^2 + 968 l^{10} r^2 R^2 +$$
$$1228 l^8 r^4 R^2 - 144 l^6 r^6 R^2 + 12 l^4 r^8 R^2 + 456 l^2 r^{10} R^2 + 52 r^{12} R^2 + 536 l^{10} r R^3 - 8280 l^8 r^3 R^3 +$$
$$7728 l^6 r^5 R^3 - 8304 l^4 r^7 R^3 + 6328 l^2 r^9 R^3 - 1592 r^{11} R^3 + 52 l^{10} R^4 - 8620 l^8 r^2 R^4 +$$
$$40968 l^6 r^4 R^4 - 61656 l^4 r^6 R^4 + 50820 l^2 r^8 R^4 - 18108 r^{10} R^4 - 1952 l^8 r R^5 + 62720 l^6 r^3 R^5 -$$
$$172608 l^4 r^5 R^5 + 196096 l^2 r^7 R^5 - 90912 r^9 R^5 - 96 l^8 R^6 + 25280 l^6 r^2 R^6 - 227968 l^4 r^4 R^6 +$$
$$412992 l^2 r^6 R^6 - 259360 r^8 R^6 + 2944 l^6 r R^7 - 138880 l^4 r^3 R^7 + 499840 l^2 r^5 R^7 -$$
$$447872 r^7 R^7 + 64 l^6 R^8 - 28224 l^4 r^2 R^8 + 327360 l^2 r^4 R^8 - 475840 r^6 R^8 - 1536 l^4 r R^9 +$$
$$100352 l^2 r^3 R^9 - 307712 r^5 R^9 + 9216 l^2 r^2 R^{10} - 109568 r^4 R^{10} - 16384 r^3 R^{11}\big)\big) /$$
$$\big(\big(l^4 + 2 l^2 r^2 + r^4 - 20 l^2 r R + 12 r^3 R + 32 r^2 R^2\big)^2 \big(l^2 r + r^3 - l^2 R + 3 r^2 R + 2 r R^2 + 2 R^3\big)^2\big)\}$$

$$\{X87,\ X(2)\text{-CROSS CONJUGATE OF } X(1),\ X92,\ \text{CEVAPOINT OF INCENTER AND CLAWSON POINT},$$
$$\frac{1}{\big(l^2 + r^2 - 4 R^2\big)^2 \big(l^4 + 2 l^2 r^2 + r^4 - 20 l^2 r R + 12 r^3 R + 32 r^2 R^2\big)^2}$$
$$\big(l^{14} + 7 l^{12} r^2 + 21 l^{10} r^4 + 35 l^8 r^6 + 35 l^6 r^8 + 21 l^4 r^{10} + 7 l^2 r^{12} + r^{14} - 56 l^{12} r R - 232 l^{10} r^3 R -$$
$$352 l^8 r^5 R - 208 l^6 r^7 R + 8 l^4 r^9 R + 56 l^2 r^{11} R + 16 r^{13} R - 8 l^{12} R^2 + 1136 l^{10} r^2 R^2 + 1752 l^8 r^4 R^2 +$$
$$352 l^6 r^6 R^2 - 24 l^4 r^8 R^2 + 176 l^2 r^{10} R^2 - 56 r^{12} R^2 + 416 l^{10} r R^3 - 10112 l^8 r^3 R^3 + 6080 l^6 r^5 R^3 -$$
$$7552 l^4 r^7 R^3 + 6048 l^2 r^9 R^3 - 2560 r^{11} R^3 + 16 l^{10} R^4 - 7792 l^8 r^2 R^4 + 43552 l^6 r^4 R^4 -$$
$$58208 l^4 r^6 R^4 + 49360 l^2 r^8 R^4 - 21296 r^{10} R^4 - 768 l^8 r R^5 + 61696 l^6 r^3 R^5 - 163072 l^4 r^5 R^5 +$$
$$177920 l^2 r^7 R^5 - 88064 r^9 R^5 + 12800 l^6 r^2 R^6 - 192000 l^4 r^4 R^6 + 341504 l^2 r^6 R^6 - 207360 r^8 R^6 -$$
$$81920 l^4 r^3 R^7 + 339968 l^2 r^5 R^7 - 282624 r^7 R^7 + 135168 l^2 r^4 R^8 - 208896 r^6 R^8 - 65536 r^5 R^9\big)\}$$

$$\{X87,\ X(2)\text{-CROSS CONJUGATE OF } X(1),\ X93,\ \text{ISOGONAL CONJUGATE OF } X(49),$$
$$\big(l^{18} + 9 l^{16} r^2 + 36 l^{14} r^4 + 84 l^{12} r^6 + 126 l^{10} r^8 + 126 l^8 r^{10} + 84 l^6 r^{12} + 36 l^4 r^{14} + 9 l^2 r^{16} + r^{18} -$$
$$56 l^{16} r R - 360 l^{14} r^3 R - 952 l^{12} r^5 R - 1288 l^{10} r^7 R - 840 l^8 r^9 R - 56 l^6 r^{11} R + 280 l^4 r^{13} R +$$
$$168 l^2 r^{15} R + 32 r^{17} R - 10 l^{16} R^2 + 1068 l^{14} r^2 R^2 + 4588 l^{12} r^4 R^2 + 6716 l^{10} r^6 R^2 + 3096 l^8 r^8 R^2 -$$
$$956 l^6 r^{10} R^2 - 396 l^4 r^{12} R^2 + 852 l^2 r^{14} R^2 + 402 r^{16} R^2 + 508 l^{14} r R^3 - 7076 l^{12} r^3 R^3 -$$
$$22212 l^{10} r^5 R^3 - 11716 l^8 r^7 R^3 + 5716 l^6 r^9 R^3 - 1484 l^4 r^{11} R^3 - 1932 l^2 r^{13} R^3 + 2356 r^{15} R^3 +$$
$$32 l^{14} R^4 - 8796 l^{12} r^2 R^4 - 7656 l^{10} r^4 R^4 + 92092 l^8 r^6 R^4 - 70032 l^6 r^8 R^4 + 59356 l^4 r^{10} R^4 -$$
$$38440 l^2 r^{12} R^4 + 3396 r^{14} R^4 - 1436 l^{12} r R^5 + 52080 l^{10} r^3 R^5 + 249876 l^8 r^5 R^5 - 517184 l^6 r^7 R^5 +$$
$$452940 l^4 r^9 R^5 - 187184 l^2 r^{11} R^5 - 42948 r^{13} R^5 - 34 l^{12} R^6 + 20896 l^{10} r^2 R^6 + 60334 l^8 r^4 R^6 -$$
$$1308208 l^6 r^6 R^6 + 1606042 l^4 r^8 R^6 - 525424 l^2 r^{10} R^6 - 333350 r^{12} R^6 + 1244 l^{10} r R^7 - 81308 l^8 r^3 R^7 -$$
$$1290888 l^6 r^5 R^7 + 3261608 l^4 r^7 R^7 - 1076692 l^2 r^9 R^7 - 1221260 r^{11} R^7 + 7 l^{10} R^8 - 12969 l^8 r^2 R^8 -$$
$$397450 l^6 r^4 R^8 + 3791006 l^4 r^6 R^8 - 1851373 l^2 r^8 R^8 - 2717285 r^{10} R^8 - 100 l^8 r R^9 + 1040 l^6 r^3 R^9 +$$
$$2215176 l^4 r^5 R^9 - 2503600 l^2 r^7 R^9 - 3816516 r^9 R^9 + 4 l^8 R^{10} - 1440 l^6 r^2 R^{10} + 505160 l^4 r^4 R^{10} -$$
$$2164352 l^2 r^6 R^{10} - 3268972 r^8 R^{10} - 160 l^6 r R^{11} + 29408 l^4 r^3 R^{11} - 943200 l^2 r^5 R^{11} - 1521632 r^7 R^{11} +$$
$$1856 l^4 r^2 R^{12} - 158080 l^2 r^4 R^{12} - 279744 r^6 R^{12} - 5120 l^2 r^3 R^{13} + 1024 r^5 R^{13} + 4096 r^4 R^{14}\big) /$$
$$\big(\big(l^4 + 2 l^2 r^2 + r^4 - 20 l^2 r R + 12 r^3 R + 32 r^2 R^2\big)^2$$
$$\big(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 8 l^2 R^2 + 24 r^2 R^2 + 32 r R^3 + 13 R^4\big)^2\big)\}$$

{X87, X(2)-CROSS CONJUGATE OF X(1), X94, ISOGONAL CONJUGATE OF X(50),

$$\frac{\left(l^{18}+9 l^{16} r^2+36 l^{14} r^4+84 l^{12} r^6+126 l^{10} r^8+126 l^8 r^{10}+84 l^6 r^{12}+36 l^4 r^{14}+9 l^2 r^{16}+r^{18}-56 l^{16} r R-360 l^{14} r^3 R-952 l^{12} r^5 R-1288 l^{10} r^7 R-840 l^8 r^9 R-56 l^6 r^{11} R+280 l^4 r^{13} R+168 l^2 r^{15} R+32 r^{17} R-12 l^{16} R^2+1060 l^{14} r^2 R^2+4588 l^{12} r^4 R^2+6772 l^{10} r^6 R^2+3236 l^8 r^8 R^2-788 l^6 r^{10} R^2-284 l^4 r^{12} R^2+892 l^2 r^{14} R^2+408 r^{16} R^2+600 l^{14} r R^3-6896 l^{12} r^3 R^3-22488 l^{10} r^5 R^3-12576 l^8 r^7 R^3+5416 l^6 r^9 R^3-752 l^4 r^{11} R^3-1192 l^2 r^{13} R^3+2560 r^{15} R^3+54 l^{14} R^4-10266 l^{12} r^2 R^4-8586 l^{10} r^4 R^4+94006 l^8 r^6 R^4-70958 l^6 r^8 R^4+58306 l^4 r^{10} R^4-34430 l^2 r^{12} R^4+6178 r^{14} R^4-2376 l^{12} r R^5+62520 l^{10} r^3 R^5+251600 l^8 r^5 R^5-518800 l^6 r^7 R^5+445656 l^4 r^9 R^5-182312 l^2 r^{11} R^5-22752 r^{13} R^5-108 l^{12} R^6+34596 l^{10} r^2 R^6+19608 l^8 r^4 R^6-1277560 l^6 r^6 R^6+1584836 l^4 r^8 R^6-547564 l^2 r^{10} R^6-249136 r^{12} R^6+4104 l^{10} r R^7-159264 l^8 r^3 R^7-1215312 l^6 r^5 R^7+3175712 l^4 r^7 R^7-1129592 l^2 r^9 R^7-1031872 r^{11} R^7+81 l^{10} R^8-48519 l^8 r^2 R^8-258534 l^6 r^4 R^8+3686562 l^4 r^6 R^8-1759419 l^2 r^8 R^8-2608491 r^{10} R^8-2592 l^8 r R^9+137376 l^6 r^3 R^9+2301984 l^4 r^5 R^9-2122272 l^2 r^7 R^9-4398976 r^9 R^9+23328 l^6 r^2 R^{10}+583200 l^4 r^4 R^{10}-1903392 l^2 r^6 R^{10}-5019168 r^8 R^{10}-20736 l^4 r^3 R^{11}-1119744 l^2 r^5 R^{11}-3753216 r^7 R^{11}-311040 l^2 r^4 R^{12}-1665792 r^6 R^{12}-331776 r^5 R^{13}\right)}{\left(\left(l^4+2 l^2 r^2+r^4-20 l^2 r R+12 r^3 R+32 r^2 R^2\right)^2\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-12 l^2 R^2+28 r^2 R^2+48 r R^3+27 R^4\right)^2\right)}$$

}

{X87, X(2)-CROSS CONJUGATE OF X(1), X95, CEVAPOINT OF CENTROID AND CIRCUMCENTER,

$$\frac{\left(l^{18}+25 l^{16} r^2+148 l^{14} r^4+420 l^{12} r^6+686 l^{10} r^8+686 l^8 r^{10}+420 l^6 r^{12}+148 l^4 r^{14}+25 l^2 r^{16}+r^{18}-56 l^{16} r R-1096 l^{14} r^3 R-3704 l^{12} r^5 R-4520 l^{10} r^7 R-968 l^8 r^9 R+2472 l^6 r^{11} R+2136 l^4 r^{13} R+584 l^2 r^{15} R+32 r^{17} R-8 l^{16} R^2+1024 l^{14} r^2 R^2+16304 l^{12} r^4 R^2+18400 l^{10} r^6 R^2-12992 l^8 r^8 R^2-17856 l^6 r^{10} R^2+1936 l^4 r^{12} R^2+4064 l^2 r^{14} R^2+392 r^{16} R^2+416 l^{14} r R^3-5152 l^{12} r^3 R^3-99616 l^{10} r^5 R^3+56608 l^8 r^7 R^3+121952 l^6 r^9 R^3-31968 l^4 r^{11} R^3-1248 l^2 r^{13} R^3+2016 r^{15} R^3+16 l^{14} R^4-7504 l^{12} r^2 R^4-34032 l^{10} r^4 R^4+330032 l^8 r^6 R^4-467536 l^6 r^8 R^4+72080 l^4 r^{10} R^4-153808 l^2 r^{12} R^4-1392 r^{14} R^4-768 l^{12} r R^5+50048 l^{10} r^3 R^5+349056 l^8 r^5 R^5-1024256 l^6 r^7 R^5+1058816 l^4 r^9 R^5-844416 l^2 r^{11} R^5-80000 r^{13} R^5+12288 l^{10} r^2 R^6-26880 l^8 r^4 R^6-1091584 l^6 r^6 R^6+2616832 l^4 r^8 R^6-2080768 l^2 r^{10} R^6-507136 r^{12} R^6-63488 l^8 r^3 R^7-620544 l^6 r^5 R^7+2349056 l^4 r^7 R^7-2361344 l^2 r^9 R^7-1728512 r^{11} R^7-65536 l^6 r^4 R^8+1601536 l^4 r^6 R^8-696320 l^2 r^8 R^8-3608576 r^{10} R^8+524288 l^4 r^5 R^9+491520 l^2 r^7 R^9-4620288 r^9 R^9+65536 l^2 r^6 R^{10}-3342336 r^8 R^{10}-1048576 r^7 R^{11}\right)}{\left(\left(l^4+2 l^2 r^2+r^4-20 l^2 r R+12 r^3 R+32 r^2 R^2\right)^2\left(l^4+18 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-4 l^2 R^2+20 r^2 R^2+16 r R^3\right)^2\right)}$$

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{X87, X(2)-CROSS CONJUGATE OF X(1), X96, ISOGONAL CONJUGATE OF X(52),

$$-\frac{\left(\left(l^{18}-7 l^{16} r^2-76 l^{14} r^4-252 l^{12} r^6-434 l^{10} r^8-434 l^8 r^{10}-252 l^6 r^{12}-76 l^4 r^{14}-7 l^2 r^{16}+r^{18}-60 l^{16} r R+472 l^{14} r^3 R+2456 l^{12} r^5 R+3640 l^{10} r^7 R+1568 l^8 r^9 R-888 l^6 r^{11} R-920 l^4 r^{13} R-152 l^2 r^{15} R+28 r^{17} R-12 l^{16} R^2+1480 l^{14} r^2 R^2-10152 l^{12} r^4 R^2-19064 l^{10} r^6 R^2+288 l^8 r^8 R^2+7960 l^6 r^{10} R^2-1176 l^4 r^{12} R^2-1128 l^2 r^{14} R^2+300 r^{16} R^2+672 l^{14} r R^3-21456 l^{12} r^3 R^3+91648 l^{10} r^5 R^3+14096 l^8 r^7 R^3-75744 l^6 r^9 R^3+23120 l^4 r^{11} R^3+320 l^2 r^{13} R^3+1136 r^{15} R^3+56 l^{14} R^4-14568 l^{12} r^2 R^4+208568 l^{10} r^4 R^4-488360 l^8 r^6 R^4+256104 l^6 r^8 R^4-4984 l^4 r^{10} R^4+69800 l^2 r^{12} R^4-6136 r^{14} R^4-2912 l^{12} r R^5+165600 l^{10} r^3 R^5-1245056 l^8 r^5 R^5+1974720 l^6 r^7 R^5-1142368 l^4 r^9 R^5+612704 l^2 r^{11} R^5-99520 r^{13} R^5-128 l^{12} R^6+55712 l^{10} r^2 R^6-1157024 l^8 r^4 R^6+4589888 l^6 r^6 R^6-5404352 l^4 r^8 R^6+2872608 l^2 r^{10} R^6-600352 r^{12} R^6+6144 l^{10} r R^7-510272 l^8 r^3 R^7+4858112 l^6 r^5 R^7-10896768 l^4 r^7 R^7+8271104 l^2 r^9 R^7-2196288 r^{11} R^7+144 l^{10} R^8-102256 l^8 r^2 R^8+2625440 l^6 r^4 R^8-11987680 l^4 r^6 R^8+14875344 l^2 r^8 R^8-5339824 r^{10} R^8-6336 l^8 r R^9+726784 l^6 r^3 R^9-7484032 l^4 r^5 R^9+16487168 l^2 r^7 R^9-8784576 r^9 R^9-64 l^8 R^{10}+89600 l^6 r^2 R^{10}-2586752 l^4 r^4 R^{10}+11125760 l^2 r^6 R^{10}-9626944 r^8 R^{10}+2560 l^6 r R^{11}-450048 l^4 r^3 R^{11}+4417024 l^2 r^5 R^{11}-6763008 r^7 R^{11}-29696 l^4 r^2 R^{12}+940032 l^2 r^4 R^{12}-2880512 r^6 R^{12}+81920 l^2 r^3 R^{13}-671744 r^5 R^{13}-65536 r^4 R^{14}\right)}{\left(\left(l^4+2 l^2 r^2+r^4-20 l^2 r R+12 r^3 R+32 r^2 R^2\right)^2\left(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2-4 R^4\right)^2\right)}$$

}

$$\{X87,\ X(2)\text{-CROSS CONJUGATE OF } X(1),\ X97,\ \text{ISOGONAL CONJUGATE OF } X(53),$$
$$-\Big(\Big(R\,\big(12\,l^{14}\,r^3-28\,l^{12}\,r^5-196\,l^{10}\,r^7-268\,l^8\,r^9-92\,l^6\,r^{11}+44\,l^4\,r^{13}+20\,l^2\,r^{15}-4\,r^{17}-10\,l^{14}\,r^2\,R-$$
$$350\,l^{12}\,r^4\,R+1166\,l^{10}\,r^6\,R+2218\,l^8\,r^8\,R+290\,l^6\,r^{10}\,R+166\,l^4\,r^{12}\,R+474\,l^2\,r^{14}\,R-$$
$$114\,r^{16}\,R+4\,l^{14}\,r\,R^2+232\,l^{12}\,r^3\,R^2+2420\,l^{10}\,r^5\,R^2-5800\,l^8\,r^7\,R^2-10\,644\,l^6\,r^9\,R^2+$$
$$3192\,l^4\,r^{11}\,R^2+4380\,l^2\,r^{13}\,R^2-1464\,r^{15}\,R^2-l^{14}\,R^3-55\,l^{12}\,r^2\,R^3-1129\,l^{10}\,r^4\,R^3-$$
$$3527\,l^8\,r^6\,R^3-9387\,l^6\,r^8\,R^3+25\,523\,l^4\,r^{10}\,R^3+21\,269\,l^2\,r^{12}\,R^3-11\,189\,r^{14}\,R^3+8\,l^{12}\,r\,R^4-$$
$$480\,l^{10}\,r^3\,R^4+6600\,l^8\,r^5\,R^4-32\,768\,l^6\,r^7\,R^4+77\,336\,l^4\,r^9\,R^4+60\,640\,l^2\,r^{11}\,R^4-$$
$$56\,552\,r^{13}\,R^4+8\,l^{12}\,R^5+176\,l^{10}\,r^2\,R^5+5368\,l^8\,r^4\,R^5-48\,224\,l^6\,r^6\,R^5+107\,640\,l^4\,r^8\,R^5+$$
$$110\,256\,l^2\,r^{10}\,R^5-198\,264\,r^{12}\,R^5-224\,l^{10}\,r\,R^6-160\,l^8\,r^3\,R^6-20\,928\,l^6\,r^5\,R^6+67\,520\,l^4\,r^7\,R^6+$$
$$155\,296\,l^2\,r^9\,R^6-490\,272\,r^{11}\,R^6-16\,l^{10}\,R^7+1904\,l^8\,r^2\,R^7-6048\,l^6\,r^4\,R^7-30\,752\,l^4\,r^6\,R^7+$$
$$231\,600\,l^2\,r^8\,R^7-847\,440\,r^{10}\,R^7+512\,l^8\,r\,R^8-6656\,l^6\,r^3\,R^8-24\,064\,l^4\,r^5\,R^8+330\,240\,l^2\,r^7\,R^8-$$
$$979\,968\,r^9\,R^8-4608\,l^6\,r^2\,R^9-2560\,l^4\,r^4\,R^9+315\,904\,l^2\,r^6\,R^9-669\,184\,r^8\,R^9+4096\,l^4\,r^3\,R^{10}+$$
$$180\,224\,l^2\,r^5\,R^{10}-151\,552\,r^7\,R^{10}+61\,440\,l^2\,r^4\,R^{11}+110\,592\,r^6\,R^{11}+65\,536\,r^5\,R^{12}\big)\Big)\Big/$$
$$\Big(\big(l^4+2\,l^2\,r^2+r^4-20\,l^2\,r\,R+12\,r^3\,R+32\,r^2\,R^2\big)^2$$
$$\big(l^4-6\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-7\,l^2\,R^2+23\,r^2\,R^2+28\,r\,R^3+12\,R^4\big)^2\Big)\Big)\}$$

$$\{X87,\ X(2)\text{-CROSS CONJUGATE OF } X(1),\ X98,\ \text{TarryPoint},$$
$$-\Big(\Big(l^{14}+7\,l^{12}\,r^2+21\,l^{10}\,r^4+35\,l^8\,r^6+35\,l^6\,r^8+21\,l^4\,r^{10}+7\,l^2\,r^{12}+r^{14}-52\,l^{12}\,r\,R-208\,l^{10}\,r^3\,R-$$
$$292\,l^8\,r^5\,R-128\,l^6\,r^7\,R+68\,l^4\,r^9\,R+80\,l^2\,r^{11}\,R+20\,r^{13}\,R-4\,l^{12}\,R^2+952\,l^{10}\,r^2\,R^2+1540\,l^8\,r^4\,R^2+$$
$$16\,l^6\,r^6\,R^2-636\,l^4\,r^8\,R^2+56\,l^2\,r^{10}\,R^2+124\,r^{12}\,R^2+192\,l^{10}\,r\,R^3-7680\,l^8\,r^3\,R^3-768\,l^6\,r^5\,R^3+$$
$$5760\,l^4\,r^7\,R^3-1472\,l^2\,r^9\,R^3-128\,r^{11}\,R^3-3200\,l^8\,r^2\,R^4+32\,256\,l^6\,r^4\,R^4-21\,504\,l^4\,r^6\,R^4+$$
$$3072\,l^2\,r^8\,R^4-5504\,r^{10}\,R^4+22\,528\,l^6\,r^3\,R^5-86\,016\,l^4\,r^5\,R^5+57\,344\,l^2\,r^7\,R^5-30\,720\,r^9\,R^5-$$
$$74\,752\,l^4\,r^4\,R^6+153\,600\,l^2\,r^6\,R^6-82\,944\,r^8\,R^6+114\,688\,l^2\,r^5\,R^7-114\,688\,r^7\,R^7-65\,536\,r^6\,R^8\big)\Big/$$
$$\Big(\big(l^4-14\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R+16\,r^2\,R^2\big)\,\big(l^4+2\,l^2\,r^2+r^4-20\,l^2\,r\,R+12\,r^3\,R+32\,r^2\,R^2\big)^2\Big)\Big)\}$$

$$\{X87,\ X(2)\text{-CROSS CONJUGATE OF } X(1),\ X99,\ \text{STEINER POINT},$$
$$\big(l^{14}+7\,l^{12}\,r^2+21\,l^{10}\,r^4+35\,l^8\,r^6+35\,l^6\,r^8+21\,l^4\,r^{10}+7\,l^2\,r^{12}+r^{14}-48\,l^{12}\,r\,R-248\,l^{10}\,r^3\,R-$$
$$488\,l^8\,r^5\,R-432\,l^6\,r^7\,R-128\,l^4\,r^9\,R+40\,l^2\,r^{11}\,R+24\,r^{13}\,R+768\,l^{10}\,r^2\,R^2+2608\,l^8\,r^4\,R^2+$$
$$2368\,l^6\,r^6\,R^2+160\,l^4\,r^8\,R^2-192\,l^2\,r^{10}\,R^2+176\,r^{12}\,R^2-3968\,l^8\,r^3\,R^3-7808\,l^6\,r^5\,R^3-$$
$$3712\,l^4\,r^7\,R^3+128\,l^2\,r^9\,R^3-4096\,l^6\,r^4\,R^4+14\,080\,l^4\,r^6\,R^4+11\,776\,l^2\,r^8\,R^4-6400\,r^{10}\,R^4+$$
$$32\,768\,l^4\,r^5\,R^5+30\,720\,l^2\,r^7\,R^5-34\,816\,r^9\,R^5+4096\,l^2\,r^6\,R^6-77\,824\,r^8\,R^6-65\,536\,r^7\,R^7\big)\Big/$$
$$\Big(\big(l^4-14\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R+16\,r^2\,R^2\big)\,\big(l^4+2\,l^2\,r^2+r^4-20\,l^2\,r\,R+12\,r^3\,R+32\,r^2\,R^2\big)^2\Big)\}$$

$$\{X87,\ X(2)\text{-CROSS CONJUGATE OF } X(1),\ X100,\ \text{ANTICOMPLEMENT OF FEUERBACH POINT},$$
$$\big(R\,\big(-l^{10}-l^8\,r^2+6\,l^6\,r^4+14\,l^4\,r^6+11\,l^2\,r^8+3\,r^{10}+48\,l^8\,r\,R+16\,l^6\,r^3\,R-$$
$$112\,l^4\,r^5\,R-80\,l^2\,r^7\,R-800\,l^6\,r^2\,R^2+224\,l^4\,r^4\,R^2+800\,l^2\,r^6\,R^2-224\,r^8\,R^2+$$
$$5120\,l^4\,r^3\,R^3-3840\,l^2\,r^5\,R^3-768\,r^7\,R^3-8448\,l^2\,r^4\,R^4+768\,r^6\,R^4+4096\,r^5\,R^5\big)\big)\Big/$$
$$\Big((2\,r-R)\,\big(l^4+2\,l^2\,r^2+r^4-20\,l^2\,r\,R+12\,r^3\,R+32\,r^2\,R^2\big)^2\Big)\}$$

$$\{X88,\ \text{ISOGONAL CONJUGATE OF } X(44),\ X89,\ \text{ISOGONAL CONJUGATE OF } X(45),$$
$$-\Big(\big(9\,r^2\,R\,\big(8\,l^6\,r+64\,l^4\,r^3-72\,l^2\,r^5-l^6\,R-73\,l^4\,r^2\,R-135\,l^2\,r^4\,R+81\,r^6\,R-20\,l^4\,r\,R^2-1512\,l^2\,r^3\,R^2+$$
$$972\,r^5\,R^2+252\,l^2\,r^2\,R^3+3888\,r^4\,R^3+5184\,r^3\,R^4\big)\big)\Big/\Big(\big(l^2+3\,r^2-15\,r\,R\big)^2\,\big(2\,l^2-6\,r^2+3\,r\,R\big)^2\Big)\Big)\}$$

$$\{X88,\ \text{ISOGONAL CONJUGATE OF } X(44),\ X90,\ X(3)\text{-CROSS CONJUGATE OF } X(1),$$
$$\big(r^2\,R\,\big(4\,l^6\,r+14\,l^4\,r^3+18\,l^2\,r^5-146\,l^4\,r^2\,R-201\,l^2\,r^4\,R-27\,r^6\,R-6\,l^4\,r\,R^2+1506\,l^2\,r^3\,R^2-$$
$$540\,r^5\,R^2-2\,l^4\,R^3+312\,l^2\,r^2\,R^3-2646\,r^4\,R^3-3708\,r^3\,R^4+9\,l^2\,R^5+549\,r^2\,R^5-144\,r\,R^6\big)\big)\Big/$$
$$\Big(\big(l^2+3\,r^2-15\,r\,R\big)^2\,\big(r^2+2\,r\,R-R^2\big)^2\Big)\}$$

$$\left\{\text{X88, ISOGONAL CONJUGATE OF X(44), X91, ISOGONAL CONJUGATE OF X(47)},\right.$$

$$\frac{1}{\left(l^2+3r^2-15rR\right)^2\left(l^2r+r^3-l^2R+3r^2R+2rR^2+2R^3\right)^2}$$

$$r^2\left(l^{10}+3l^8r^2-6l^6r^4-26l^4r^6-27l^2r^8-9r^{10}-38l^8rR-68l^6r^3R+112l^4r^5R+\right.$$
$$180l^2r^7R-90r^9R-10l^8R^2+490l^6r^2R^2+662l^4r^4R^2-906l^2r^6R^2-108r^8R^2+$$
$$330l^6rR^3-2698l^4r^3R^3-2130l^2r^5R^3+1314r^7R^3+37l^6R^4-3505l^4r^2R^4+$$
$$4839l^2r^4R^4+3789r^6R^4-1024l^4rR^5+14736l^2r^3R^5-2160r^5R^5-60l^4R^6+$$
$$\left.\left.7896l^2r^2R^6-16956r^4R^6+1320l^2rR^7-18648r^3R^7+36l^2R^8-5580r^2R^8-576rR^9\right)\right\}$$

$$\left\{\text{X88, ISOGONAL CONJUGATE OF X(44), X92,}\right.$$

$$\text{CEVAPOINT OF INCENTER AND CLAWSON POINT},\ \frac{1}{\left(l^2+3r^2-15rR\right)^2\left(l^2+r^2-4R^2\right)^2}$$

$$\left(l^{10}+3l^8r^2-6l^6r^4-26l^4r^6-27l^2r^8-9r^{10}-48l^8rR-112l^6r^3R+72l^4r^5R+192l^2r^7R-\right.$$
$$72r^9R-8l^8R^2+824l^6r^2R^2+1284l^4r^4R^2-912l^2r^6R^2+108r^8R^2+352l^6rR^3-$$
$$5792l^4r^3R^3-3120l^2r^5R^3+2160r^7R^3+16l^6R^4-5392l^4r^2R^4+13200l^2r^4R^4+3456r^6R^4-$$
$$\left.\left.640l^4rR^5+31872l^2r^3R^5-13824r^5R^5+8448l^2r^2R^6-46080r^4R^6-36864r^3R^7\right)\right\}$$

$$\left\{\text{X88, ISOGONAL CONJUGATE OF X(44), X93, ISOGONAL CONJUGATE OF X(49)},\right.$$

$$\left(l^{14}+5l^{12}r^2+l^{10}r^4-35l^8r^6-85l^6r^8-89l^4r^{10}-45l^2r^{12}-9r^{14}-48l^{12}rR-152l^{10}r^3R+48l^8r^5R+\right.$$
$$432l^6r^7R+208l^4r^9R-216l^2r^{11}R-144r^{13}R-10l^{12}R^2+804l^{10}r^2R^2+1318l^8r^4R^2-472l^6r^6R^2+$$
$$594l^4r^8R^2-300l^2r^{10}R^2-846r^{12}R^2+434l^{10}rR^3-5378l^8r^3R^3-1788l^6r^5R^3-6100l^4r^7R^3+$$
$$2250l^2r^9R^3-1962r^{11}R^3+32l^{10}R^4-6492l^8r^2R^4+10968l^6r^4R^4-7648l^4r^6R^4+17064l^2r^8R^4-$$
$$36r^{10}R^4-1230l^8rR^5+36744l^6r^3R^5-4236l^4r^5R^5+33240l^2r^7R^5+5562r^9R^5-34l^8R^6+$$
$$15580l^6r^2R^6-40792l^4r^4R^6-7884l^2r^6R^6-630r^8R^6+1098l^6rR^7-65518l^4r^3R^7-60570l^2r^5R^7-$$
$$17154r^7R^7+7l^6R^8-11109l^4r^2R^8-9951l^2r^4R^8+621r^6R^8-134l^4rR^9+35244l^2r^3R^9+$$
$$\left.\left.33858r^5R^9+4l^4R^{10}+684l^2r^2R^{10}+17172r^4R^{10}-120l^2rR^{11}-5256r^3R^{11}+900r^2R^{12}\right)\Big/\right.$$
$$\left.\left.\left(l^2+3r^2-15rR\right)^2\left(l^4+2l^2r^2+r^4-8l^2rR+8r^3R-8l^2R^2+24r^2R^2+32rR^3+13R^4\right)^2\right)\right\}$$

$$\left\{\text{X88, ISOGONAL CONJUGATE OF X(44), X94, ISOGONAL CONJUGATE OF X(50)},\right.$$

$$\left(l^{14}+5l^{12}r^2+l^{10}r^4-35l^8r^6-85l^6r^8-89l^4r^{10}-45l^2r^{12}-9r^{14}-48l^{12}rR-152l^{10}r^3R+48l^8r^5R+\right.$$
$$432l^6r^7R+208l^4r^9R-216l^2r^{11}R-144r^{13}R-12l^{12}R^2+816l^{10}r^2R^2+1432l^8r^4R^2-240l^6r^6R^2+$$
$$756l^4r^8R^2-288l^2r^{10}R^2-864r^{12}R^2+516l^{10}rR^3-5908l^8r^3R^3-3928l^6r^5R^3-7304l^4r^7R^3+$$
$$2196l^2r^9R^3-2340r^{11}R^3+54l^{10}R^4-7854l^8r^2R^4+16788l^6r^4R^4-1604l^4r^6R^4+17910l^2r^8R^4-$$
$$3150r^{10}R^4-2052l^8rR^5+50424l^6r^3R^5-19032l^4r^5R^5+35352l^2r^7R^5-6804r^9R^5-108l^8R^6+$$
$$26604l^6r^2R^6-119700l^4r^4R^6+16740l^2r^6R^6-23472r^8R^6+3564l^6rR^7-136116l^4r^3R^7+$$
$$80820l^2r^5R^7-32652r^7R^7+81l^6R^8-37719l^4r^2R^8+207279l^2r^4R^8-19305r^6R^8-$$
$$\left.\left.2268l^4rR^9+141912l^2r^3R^9-55404r^5R^9+18468l^2r^2R^{10}-97200r^4R^{10}-46656r^3R^{11}\right)\Big/\right.$$
$$\left.\left.\left(l^2+3r^2-15rR\right)^2\left(l^4+2l^2r^2+r^4-8l^2rR+8r^3R-12l^2R^2+28r^2R^2+48rR^3+27R^4\right)^2\right)\right\}$$

$$\left\{\text{X88, ISOGONAL CONJUGATE OF X(44), X95, CEVAPOINT OF CENTROID AND CIRCUMCENTER},\right.$$

$$\left(l^{14}+21l^{12}r^2+49l^{10}r^4-131l^8r^6-501l^6r^8-521l^4r^{10}-189l^2r^{12}-9r^{14}-48l^{12}rR-776l^{10}r^3R-\right.$$
$$464l^8r^5R+3792l^6r^7R-6320l^4r^9R-1800l^2r^{11}R-144r^{13}R-8l^{12}R^2+728l^{10}r^2R^2+$$
$$9460l^8r^4R^2-5760l^6r^6R^2-11152l^4r^8R^2-5688l^2r^{10}R^2-828r^{12}R^2+352l^{10}rR^3-2656l^8r^3R^3-$$
$$45360l^6r^5R^3+29968l^4r^7R^3-432l^2r^9R^3-1584r^{11}R^3+16l^{10}R^4-5200l^8r^2R^4-18288l^6r^4R^4+$$
$$100640l^4r^6R^4+34560l^2r^8R^4+3024r^{10}R^4-640l^8rR^5+26112l^6r^3R^5+85120l^4r^5R^5+$$
$$58752l^2r^7R^5+17280r^9R^5+8064l^6r^2R^6+3904l^4r^4R^6-17280l^2r^6R^6+17856r^8R^6-$$
$$\left.\left.26112l^4r^3R^7-112896l^2r^5R^7-25344r^7R^7-71424l^2r^4R^8-64512r^6R^8-36864r^5R^9\right)\Big/\right.$$
$$\left.\left.\left(l^2+3r^2-15rR\right)^2\left(l^4+18l^2r^2+r^4-8l^2rR+8r^3R-4l^2R^2+20r^2R^2+16rR^3\right)^2\right)\right\}$$

$$\{X88,\ \text{ISOGONAL CONJUGATE OF } X(44),\ X96,\ \text{ISOGONAL CONJUGATE OF } X(52),$$
$$-\Big(\big(l^{14}-11 l^{12} r^2-47 l^{10} r^4+61 l^8 r^6+331 l^6 r^8+343 l^4 r^{10}+99 l^2 r^{12}-9 r^{14}-50 l^{12} r R+$$
$$516 l^{10} r^3 R+1066 l^8 r^5 R-3688 l^6 r^7 R+3938 l^4 r^9 R-156 l^2 r^{11} R-90 r^{13} R-12 l^{12} R^2+$$
$$1068 l^{10} r^2 R^2-8172 l^8 r^4 R^2-4632 l^6 r^6 R^2+19692 l^4 r^8 R^2-9396 l^2 r^{10} R^2+108 r^{12} R^2+$$
$$552 l^{10} r R^3-13656 l^8 r^3 R^3+53408 l^6 r^5 R^3+14048 l^4 r^7 R^3-46920 l^2 r^9 R^3+$$
$$5112 r^{11} R^3+56 l^{10} R^4-9764 l^8 r^2 R^4+109616 l^6 r^4 R^4-171480 l^4 r^6 R^4-52968 l^2 r^8 R^4+$$
$$26748 r^{10} R^4-2352 l^8 r R^5+88576 l^6 r^3 R^5-457376 l^4 r^5 R^5+230784 l^2 r^7 R^5+$$
$$45648 r^9 R^5-128 l^8 R^6+35232 l^6 r^2 R^6-459904 l^4 r^4 R^6+862944 l^2 r^6 R^6-80640 r^8 R^6+$$
$$4864 l^6 r R^7-235328 l^4 r^3 R^7+1148736 l^2 r^5 R^7-509184 r^7 R^7+144 l^6 R^8-60656 l^4 r^2 R^8+$$
$$765744 l^2 r^4 R^8-960912 r^6 R^8-4896 l^4 r R^9+276672 l^2 r^3 R^9-886176 r^5 R^9-64 l^4 R^{10}+$$
$$48960 l^2 r^2 R^{10}-440640 r^4 R^{10}+1920 l^2 r R^{11}-118656 r^3 R^{11}-14400 r^2 R^{12}\big)\Big/$$
$$\big((l^2+3 r^2-15 r R)^2 (l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2-4 R^4)^2\big)\Big)\}$$

$$\{X88,\ \text{ISOGONAL CONJUGATE OF } X(44),\ X97,\ \text{ISOGONAL CONJUGATE OF } X(53),$$
$$-\Big(\big(R\,(12 l^{10} r^3+16 l^8 r^5-696 l^6 r^7+1168 l^4 r^9-180 l^2 r^{11}-13 l^{10} r^2 R-267 l^8 r^4 R+462 l^6 r^6 R+$$
$$4442 l^4 r^8 R-2337 l^2 r^{10} R+81 r^{12} R+2 l^{10} r R^2+294 l^8 r^3 R^2-472 l^6 r^5 R^2+7728 l^4 r^7 R^2-$$
$$14538 l^2 r^9 R^2+1674 r^{11} R^2-l^{10} R^3+73 l^8 r^2 R^3-2194 l^6 r^4 R^3+17830 l^4 r^6 R^3-54741 l^2 r^8 R^3+$$
$$14697 r^{10} R^3+20 l^8 r R^4-2792 l^6 r^3 R^4+32280 l^4 r^5 R^4-130728 l^2 r^7 R^4+71460 r^9 R^4+8 l^8 R^5-$$
$$548 l^6 r^2 R^5+23816 l^4 r^4 R^5-192804 l^2 r^6 R^5+210168 r^8 R^5-224 l^6 r R^6+11968 l^4 r^3 R^6-$$
$$164352 l^2 r^5 R^6+382752 r^7 R^6-16 l^6 R^7+2704 l^4 r^2 R^7-77328 l^2 r^4 R^7+422928 r^6 R^7+$$
$$448 l^4 r R^8-24192 l^2 r^3 R^8+264384 r^5 R^8-3648 l^2 r^2 R^9+80640 r^4 R^9+9216 r^3 R^{10}\big)\Big)\Big/$$
$$\big((l^2+3 r^2-15 r R)^2 (l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-7 l^2 R^2+23 r^2 R^2+28 r R^3+12 R^4)^2\big)\Big)\}$$

$$\{X88,\ \text{ISOGONAL CONJUGATE OF } X(44),\ X98,\ \text{TarryPoint},$$
$$-\Big(\big(l^{10}+3 l^8 r^2-6 l^6 r^4-26 l^4 r^6-27 l^2 r^8-9 r^{10}-42 l^8 r R-56 l^6 r^3 R+252 l^4 r^5 R-264 l^2 r^7 R-$$
$$18 r^9 R-4 l^8 R^2+612 l^6 r^2 R^2+104 l^4 r^4 R^2-1068 l^2 r^6 R^2+468 r^8 R^2+152 l^6 r R^3-3736 l^4 r^3 R^3+$$
$$216 l^2 r^5 R^3+2088 r^7 R^3-1924 l^4 r^2 R^4+10248 l^2 r^4 R^4+252 r^6 R^4+9120 l^2 r^3 R^5-10656 r^5 R^5-$$
$$14400 r^4 R^6\big)\Big/\big((l^2+3 r^2-15 r R)^2 (l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2)\big)\Big)\}$$

$$\{X88,\ \text{ISOGONAL CONJUGATE OF } X(44),\ X99,\ \text{STEINER POINT},$$
$$\big(l^{10}+3 l^8 r^2-6 l^6 r^4-26 l^4 r^6-27 l^2 r^8-9 r^{10}-40 l^8 r R-72 l^6 r^3 R+$$
$$32 l^4 r^5 R+504 l^2 r^7 R-72 r^9 R+504 l^6 r^2 R^2+460 l^4 r^4 R^2+432 l^2 r^6 R^2-36 r^8 R^2-$$
$$1632 l^4 r^3 R^3-432 l^2 r^5 R^3+720 r^7 R^3-4464 l^2 r^4 R^4+576 r^6 R^4-2304 r^5 R^5\big)\Big/$$
$$\big((l^2+3 r^2-15 r R)^2 (l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2)\big)\}$$

$$\{X88,\ \text{ISOGONAL CONJUGATE OF } X(44),\ X100,$$
$$\text{ANTICOMPLEMENT OF FEUERBACH POINT},\ -\frac{R\,(l^2+5 r^2-16 r R)\,(-l^2+3 r^2+12 r R)^2}{(2 r-R)\,(l^2+3 r^2-15 r R)^2}\}$$

$$\{X89,\ \text{ISOGONAL CONJUGATE OF } X(45),\ X90,\ X(3)\text{-CROSS CONJUGATE OF } X(1),$$
$$\big(r^2 R\,(16 l^6 r-52 l^4 r^3-36 l^2 r^5+100 l^4 r^2 R-573 l^2 r^4 R+27 r^6 R-132 l^4 r R^2-282 l^2 r^3 R^2+54 r^5 R^2+$$
$$4 l^4 R^3-708 l^2 r^2 R^3-432 r^4 R^3+342 l^2 r R^4-846 r^3 R^4+9 l^2 R^5+765 r^2 R^5-144 r R^6\big)\Big)\Big/$$
$$\big((2 l^2-6 r^2+3 r R)^2 (r^2+2 r R-R^2)^2\big)\}$$

$$\{X89,\ \text{ISOGONAL CONJUGATE OF } X(45),\ X91,\ \text{ISOGONAL CONJUGATE OF } X(47),$$
$$\frac{1}{(2 l^2-6 r^2+3 r R)^2 (l^2 r+r^3-l^2 R+3 r^2 R+2 r R^2+2 R^3)^2}$$
$$r^2\big(4 l^{10}+12 l^8 r^2-24 l^6 r^4-104 l^4 r^6-108 l^2 r^8-36 r^{10}-80 l^8 r R+400 l^6 r^3 R-$$
$$560 l^4 r^5 R+432 l^2 r^7 R-576 r^9 R-28 l^8 R^2+88 l^6 r^2 R^2-1384 l^4 r^4 R^2+2616 l^2 r^6 R^2-$$
$$3564 r^8 R^2+552 l^6 r R^3-2884 l^4 r^3 R^3+4704 l^2 r^5 R^3-10836 r^7 R^3+73 l^6 R^4-781 l^4 r^2 R^4+$$
$$6339 l^2 r^4 R^4-17271 r^6 R^4-1384 l^4 r R^5+6864 l^2 r^3 R^5-15336 r^5 R^5-84 l^4 R^6+$$
$$1824 l^2 r^2 R^6-9612 r^4 R^6+1488 l^2 r R^7-5472 r^3 R^7+36 l^2 R^8-1260 r^2 R^8-576 r R^9\big)\}$$

$$\Big\{X89,\ \text{ISOGONAL CONJUGATE OF } X(45),\ X92,\ \text{CEVAPOINT OF INCENTER AND CLAWSON POINT},\ \frac{1}{(2l^2-6r^2+3rR)^2\,(l^2+r^2-4R^2)^2}$$
$$4\,(l^{10}+3l^8r^2-6l^6r^4-26l^4r^6-27l^2r^8-9r^{10}-18l^8rR+92l^6r^3R-144l^4r^5R+132l^2r^7R-126r^9R-8l^8R^2-43l^6r^2R^2-171l^4r^4R^2+651l^2r^6R^2-621r^8R^2+112l^6rR^3-404l^4r^3R^3+204l^2r^5R^3-1080r^7R^3+16l^6R^4+536l^4r^2R^4-96l^2r^4R^4+540r^6R^4-160l^4rR^5+528l^2r^3R^5+3024r^5R^5-1392l^2r^2R^6+576r^4R^6-2304r^3R^7)\Big\}$$

$$\Big\{X89,\ \text{ISOGONAL CONJUGATE OF } X(45),\ X93,\ \text{ISOGONAL CONJUGATE OF } X(49),$$
$$\big(4\,(l^{14}+5l^{12}r^2+l^{10}r^4-35l^8r^6-85l^6r^8-89l^4r^{10}-45l^2r^{12}-9r^{14}-18l^{12}rR-32l^{10}r^3R+174l^8r^5R+336l^6r^7R-86l^4r^9R-432l^2r^{11}R-198r^{13}R-10l^{12}R^2-87l^{10}r^2R^2+517l^8r^4R^2-1846l^6r^6R^2+1776l^4r^8R^2-1779l^2r^{10}R^2-1899r^{12}R^2+143l^{10}rR^3+1207l^8r^3R^3-5694l^6r^5R^3+7682l^4r^7R^3-3249l^2r^9R^3-10521r^{11}R^3+32l^{10}R^4+1113l^8r^2R^4-6888l^6r^4R^4+16682l^4r^6R^4+2448l^2r^8R^4-37755r^{10}R^4-345l^8rR^5-7638l^6r^3R^5+15660l^4r^5R^5+25782l^2r^7R^5-93555r^9R^5-34l^8R^6-4787l^6r^2R^6+9197l^4r^4R^6+57699l^2r^6R^6-166491r^8R^6+267l^6rR^7+10373l^4r^3R^7+68229l^2r^5R^7-216549r^7R^7+7l^6R^8+6864l^4r^2R^8+41163l^2r^4R^8-204282r^6R^8-59l^4rR^9+6588l^2r^3R^9-134433r^5R^9+4l^4R^{10}-2988l^2r^2R^{10}-55728r^4R^{10}+12l^2rR^{11}-10980r^3R^{11}+9r^2R^{12})\big)\Big/$$
$$\big((2l^2-6r^2+3rR)^2\,(l^4+2l^2r^2+r^4-8l^2rR+8r^3R-8l^2R^2+24r^2R^2+32rR^3+13R^4)^2\big)\Big\}$$

$$\Big\{X89,\ \text{ISOGONAL CONJUGATE OF } X(45),\ X94,\ \text{ISOGONAL CONJUGATE OF } X(50),$$
$$\big(4\,(l^{14}+5l^{12}r^2+l^{10}r^4-35l^8r^6-85l^6r^8-89l^4r^{10}-45l^2r^{12}-9r^{14}-18l^{12}rR-32l^{10}r^3R+174l^8r^5R+336l^6r^7R-86l^4r^9R-432l^2r^{11}R-198r^{13}R-12l^{12}R^2-99l^{10}r^2R^2+535l^8r^4R^2-1758l^6r^6R^2+1842l^4r^8R^2-1791l^2r^{10}R^2-1917r^{12}R^2+174l^{10}rR^3+1382l^8r^3R^3-6208l^6r^5R^3+7384l^4r^7R^3-3294l^2r^9R^3-10926r^{11}R^3+54l^{10}R^4+1308l^8r^2R^4-7812l^6r^4R^4+18568l^4r^6R^4+3582l^2r^8R^4-41652r^{10}R^4-594l^8rR^5-10524l^6r^3R^5+19512l^4r^5R^5+32796l^2r^7R^5-114534r^9R^5-108l^8R^6-7119l^6r^2R^6+13257l^4r^4R^6+79047l^2r^6R^6-236421r^8R^6+810l^6rR^7+22590l^4r^3R^7+112554l^2r^5R^7-369018r^7R^7+81l^6R^8+16065l^4r^2R^8+81243l^2r^4R^8-429489r^6R^8-324l^4rR^9+7776l^2r^3R^9-358668r^5R^9-12636l^2r^2R^{10}-190512r^4R^{10}-46656r^3R^{11})\big)\Big/$$
$$\big((2l^2-6r^2+3rR)^2\,(l^4+2l^2r^2+r^4-8l^2rR+8r^3R-12l^2R^2+28r^2R^2+48rR^3+27R^4)^2\big)\Big\}$$

$$\Big\{X89,\ \text{ISOGONAL CONJUGATE OF } X(45),\ X95,\ \text{CEVAPOINT OF CENTROID AND CIRCUMCENTER},$$
$$\big(4\,(l^{14}+21l^{12}r^2+49l^{10}r^4-131l^8r^6-501l^6r^8-521l^4r^{10}-189l^2r^{12}-9r^{14}-18l^{12}rR-200l^{10}r^3R-2l^8r^5R+48l^6r^7R-4646l^4r^9R-2664l^2r^{11}R-198r^{13}R-8l^{12}R^2-115l^{10}r^2R^2-485l^8r^4R^2-5526l^6r^6R^2-12922l^4r^8R^2-15543l^2r^{10}R^2-1881r^{12}R^2+112l^{10}rR^3+1220l^8r^3R^3-936l^6r^5R^3-4064l^4r^7R^3-46440l^2r^9R^3-10116r^{11}R^3+16l^{10}R^4+584l^8r^2R^4+1476l^6r^4R^4+24440l^4r^6R^4-70092l^2r^8R^4-33912r^{10}R^4-160l^8rR^5-3264l^6r^3R^5+13792l^4r^5R^5-37152l^2r^7R^5-73440r^9R^5-1584l^6r^2R^6+496l^4r^4R^6+25488l^2r^6R^6-102672r^8R^6+192l^4r^3R^7+35712l^2r^5R^7-89280r^7R^7+9792l^2r^4R^8-43776r^6R^8-9216r^5R^9)\big)\Big/$$
$$\big((2l^2-6r^2+3rR)^2\,(l^4+18l^2r^2+r^4-8l^2rR+8r^3R-4l^2R^2+20r^2R^2+16rR^3)^2\big)\Big\}$$

$$\Big\{X89,\ \text{ISOGONAL CONJUGATE OF } X(45),\ X96,\ \text{ISOGONAL CONJUGATE OF } X(52),$$
$$-\big(\big(4\,(l^{14}-11l^{12}r^2-47l^{10}r^4+61l^8r^6+331l^6r^8+343l^4r^{10}+99l^2r^{12}-9r^{14}-17l^{12}rR+120l^{10}r^3R-17l^8r^5R-856l^6r^7R+2573l^4r^9R+1056l^2r^{11}R-171r^{13}R-12l^{12}R^2+234l^{10}r^2R^2-294l^8r^4R^2+1284l^6r^6R^2+9240l^4r^8R^2+3762l^2r^{10}R^2-1350r^{12}R^2+156l^{10}rR^3-1308l^8r^3R^3+3752l^6r^5R^3+14792l^4r^7R^3+2460l^2r^9R^3-5580r^{11}R^3+56l^{10}R^4-1235l^8r^2R^4+3248l^6r^4R^4-5658l^4r^6R^4-13992l^2r^8R^4-12051r^{10}R^4-504l^8rR^5+3664l^6r^3R^5-15728l^4r^5R^5-22992l^2r^7R^5-9432r^9R^5-128l^8R^6+2304l^6r^2R^6-5296l^4r^4R^6+9552l^2r^6R^6+10080r^8R^6+640l^6rR^7-1664l^4r^3R^7+17664l^2r^5R^7+19584r^7R^7+144l^6R^8-1040l^4r^2R^8-384l^2r^4R^8+720r^6R^8-144l^4rR^9-3072l^2r^3R^9-6192r^5R^9-64l^4R^{10}-576l^2r^2R^{10}-192l^2rR^{11}+576r^3R^{11}-144r^2R^{12})\big)\Big/$$
$$\big((2l^2-6r^2+3rR)^2\,(l^4-14l^2r^2+r^4-8l^2rR+8r^3R+16r^2R^2-4R^4)^2\big)\big)\Big\}$$

$$\{X89,\ \text{ISOGONAL CONJUGATE OF } X(45),\ X97,\ \text{ISOGONAL CONJUGATE OF } X(53),$$
$$\big(R\,(r+2R)^2\,\big(32\,l^8 r^3+96\,l^6 r^5-1696\,l^4 r^7+288\,l^2 r^9+l^{10} R+43\,l^8 r^2 R-294\,l^6 r^4 R-3610\,l^4 r^6 R+3045\,l^2 r^8 R-81\,r^{10} R-12\,l^8 r R^2-704\,l^6 r^3 R^2-2968\,l^4 r^5 R^2+13\,728\,l^2 r^7 R^2-1404\,r^9 R^2-8\,l^8 R^3-396\,l^6 r^2 R^3+664\,l^4 r^4 R^3+30\,420\,l^2 r^6 R^3-9864\,r^8 R^3+64\,l^6 r R^4+3264\,l^4 r^3 R^4+32\,736\,l^2 r^5 R^4-36\,000\,r^7 R^4+16\,l^6 R^5+1584\,l^4 r^2 R^5+13\,392\,l^2 r^4 R^5-72\,720\,r^6 R^5-64\,l^4 r R^6-2688\,l^2 r^3 R^6-80\,064\,r^5 R^6-2496\,l^2 r^2 R^7-43\,776\,r^4 R^7-9216\,r^3 R^8\big)\big)\,/$$
$$\big((2\,l^2-6\,r^2+3\,r R)^2\,(l^4-6\,l^2 r^2+r^4-8\,l^2 r R+8\,r^3 R-7\,l^2 R^2+23\,r^2 R^2+28\,r R^3+12\,R^4)^2\big)\}$$

$$\{X89,\ \text{ISOGONAL CONJUGATE OF } X(45),\ X98,\ \text{TarryPoint},$$
$$-\big(\big(4\,\big(l^{10}+3\,l^8 r^2-6\,l^6 r^4-26\,l^4 r^6-27\,l^2 r^8-9\,r^{10}-9\,l^8 r R+10\,l^6 r^3 R+60\,l^4 r^5 R-186\,l^2 r^7 R-99\,r^9 R-4\,l^8 R^2-6\,l^6 r^2 R^2-214\,l^4 r^4 R^2-570\,l^2 r^6 R^2-342\,r^8 R^2+20\,l^6 r R^3-52\,l^4 r^3 R^3-972\,l^2 r^5 R^3-180\,r^7 R^3+23\,l^4 r^2 R^4+210\,l^2 r^4 R^4+1143\,r^6 R^4-120\,l^2 r^3 R^5+1656\,r^5 R^5-144\,r^4 R^6\big)\big)\,/$$
$$\big((2\,l^2-6\,r^2+3\,r R)^2\,(l^4-14\,l^2 r^2+r^4-8\,l^2 r R+8\,r^3 R+16\,r^2 R^2)\big)\big)\}$$

$$\{X89,\ \text{ISOGONAL CONJUGATE OF } X(45),\ X99,\ \text{STEINER POINT},$$
$$\big(4\,\big(l^{10}+3\,l^8 r^2-6\,l^6 r^4-26\,l^4 r^6-27\,l^2 r^8-9\,r^{10}-10\,l^8 r R+12\,l^6 r^3 R+200\,l^4 r^5 R+180\,l^2 r^7 R-126\,r^9 R-99\,l^6 r^2 R^2+409\,l^4 r^4 R^2+891\,l^2 r^6 R^2-657\,r^8 R^2+12\,l^4 r^3 R^3+1296\,l^2 r^5 R^3-1548\,r^7 R^3+612\,l^2 r^4 R^4-1584\,r^6 R^4-576\,r^5 R^5\big)\big)\,/$$
$$\big((2\,l^2-6\,r^2+3\,r R)^2\,(l^4-14\,l^2 r^2+r^4-8\,l^2 r R+8\,r^3 R+16\,r^2 R^2)\big)\}$$

$$\{X89,\ \text{ISOGONAL CONJUGATE OF } X(45),\ X100,\ \text{ANTICOMPLEMENT OF FEUERBACH POINT},$$
$$-\frac{4\,R\,(l^6+2\,l^4 r^2+3\,l^2 r^4+18\,r^6-10\,l^4 r R+51\,l^2 r^3 R+135\,r^5 R-87\,l^2 r^2 R^2+216\,r^4 R^2-144\,r^3 R^3)}{(2\,r-R)\,(-2\,l^2+6\,r^2-3\,r R)^2}\}$$

$$\{X90,\ X(3)\text{-CROSS CONJUGATE OF } X(1),\ X91,\ \text{ISOGONAL CONJUGATE OF } X(47),$$
$$-\frac{1}{(r^2+2\,r R-R^2)^2\,(l^2 r+r^3-l^2 R+3\,r^2 R+2\,r R^2+2\,R^3)^2}$$
$$r^2\,\big(l^6 r^4+3\,l^4 r^6+3\,l^2 r^8+r^{10}-4\,l^6 r^3 R+4\,l^4 r^5 R-4\,l^2 r^7 R+20\,r^9 R+2\,l^6 r^2 R^2+22\,l^4 r^4 R^2-122\,l^2 r^6 R^2+162\,r^8 R^2-4\,l^6 r R^3+84\,l^4 r^3 R^3-420\,l^2 r^5 R^3+692\,r^7 R^3+l^6 R^4+27\,l^4 r^2 R^4-665\,l^2 r^4 R^4+1693\,r^6 R^4+16\,l^4 r R^5-536\,l^2 r^3 R^5+2408\,r^5 R^5-8\,l^4 R^6-104\,l^2 r^2 R^6+1920\,r^4 R^6+8\,l^2 r R^7+728\,r^3 R^7+20\,l^2 R^8+4\,r^2 R^8-48\,r R^9-16\,R^{10}\big)\}$$

$$\{X90,\ X(3)\text{-CROSS CONJUGATE OF } X(1),\ X92,$$
$$\text{CEVAPOINT OF INCENTER AND CLAWSON POINT},\ -\frac{1}{(l^2+r^2-4\,R^2)^2\,(r^2+2\,r R-R^2)^2}$$
$$\big(l^6 r^4+3\,l^4 r^6+3\,l^2 r^8+r^{10}-2\,l^6 r^3 R+6\,l^4 r^5 R-6\,l^2 r^7 R+18\,r^9 R+16\,l^4 r^4 R^2-96\,l^2 r^6 R^2+128\,r^8 R^2+2\,l^6 r R^3+10\,l^4 r^3 R^3-210\,l^2 r^5 R^3+454\,r^7 R^3-l^6 R^4-51\,l^4 r^2 R^4-51\,l^2 r^4 R^4+799\,r^6 R^4+8\,l^4 r R^5+296\,l^2 r^3 R^5+448\,r^5 R^5+8\,l^4 R^6+208\,l^2 r^2 R^6-584\,r^4 R^6-128\,l^2 r R^7-864\,r^3 R^7-16\,l^2 R^8-80\,r^2 R^8+256\,r R^9\big)\}$$

$$\{X90,\ X(3)\text{-CROSS CONJUGATE OF } X(1),\ X93,\ \text{ISOGONAL CONJUGATE OF } X(49),$$
$$-\big(\big(l^{10} r^4+5\,l^8 r^6+10\,l^6 r^8+10\,l^4 r^{10}+5\,l^2 r^{12}+r^{14}-2\,l^{10} r^3 R-22\,l^8 r^5 R-28\,l^6 r^7 R+28\,l^4 r^9 R+62\,l^2 r^{11} R+26\,r^{13} R+14\,l^8 r^4 R^2+116\,l^6 r^6 R^2-152\,l^4 r^8 R^2+300\,l^2 r^{10} R^2+298\,r^{12} R^2+2\,l^{10} r R^3+30\,l^8 r^3 R^3+168\,l^6 r^5 R^3-768\,l^4 r^7 R^3+566\,l^2 r^9 R^3+1986\,r^{11} R^3-l^{10} R^4-45\,l^8 r^2 R^4-222\,l^6 r^4 R^4-858\,l^4 r^6 R^4-713\,l^2 r^8 R^4+8543\,r^{10} R^4+8\,l^8 r R^5-80\,l^6 r^3 R^5+1196\,l^4 r^5 R^5-6288\,l^2 r^7 R^5+24\,876\,r^9 R^5+10\,l^8 R^6+144\,l^6 r^2 R^6+2682\,l^4 r^4 R^6-15\,128\,l^2 r^6 R^6+49\,956\,r^8 R^6-172\,l^6 r R^7+1236\,l^4 r^3 R^7-19\,152\,l^2 r^5 R^7+69\,048\,r^7 R^7-32\,l^6 R^8+324\,l^4 r^2 R^8-13\,045\,l^2 r^4 R^8+64\,211\,r^6 R^8+556\,l^4 r R^9-4294\,l^2 r^3 R^9+38\,150\,r^5 R^9+34\,l^4 R^{10}-900\,l^2 r^2 R^{10}+12\,982\,r^4 R^{10}-542\,l^2 r R^{11}+1942\,r^3 R^{11}-7\,l^2 R^{12}+141\,r^2 R^{12}+148\,r R^{13}-4\,R^{14}\big)\,/$$
$$\big((r^2+2\,r R-R^2)^2\,(l^4+2\,l^2 r^2+r^4-8\,l^2 r R+8\,r^3 R-8\,l^2 R^2+24\,r^2 R^2+32\,r R^3+13\,R^4)^2\big)\big)\}$$

$$\{X90,\ X(3)\text{-CROSS CONJUGATE OF } X(1),\ X94,\ \text{ISOGONAL CONJUGATE OF } X(50),$$
$$-\Big(\big(l^{10} r^4 + 5 l^8 r^6 + 10 l^6 r^8 + 10 l^4 r^{10} + 5 l^2 r^{12} + r^{14} - 2 l^{10} r^3 R - 22 l^8 r^5 R - 28 l^6 r^7 R + 28 l^4 r^9 R +$$
$$62 l^2 r^{11} R + 26 r^{13} R + 8 l^8 r^4 R^2 + 100 l^6 r^6 R^2 - 164 l^4 r^8 R^2 + 300 l^2 r^{10} R^2 + 300 r^{12} R^2 +$$
$$2 l^{10} r R^3 + 42 l^8 r^3 R^3 + 236 l^6 r^5 R^3 - 812 l^4 r^7 R^3 + 514 l^2 r^9 R^3 + 2034 r^{11} R^3 - l^{10} R^4 -$$
$$57 l^8 r^2 R^4 - 296 l^6 r^4 R^4 - 696 l^4 r^6 R^4 - 1399 l^2 r^8 R^4 + 9041 r^{10} R^4 + 12 l^8 r R^5 - 160 l^6 r^3 R^5 +$$
$$2304 l^4 r^5 R^5 - 9912 l^2 r^7 R^5 + 27804 r^9 R^5 + 12 l^8 R^6 + 216 l^6 r^2 R^6 + 4408 l^4 r^4 R^6 - 24892 l^2 r^6 R^6 +$$
$$60680 r^8 R^6 - 264 l^6 r R^7 + 1756 l^4 r^3 R^7 - 33096 l^2 r^5 R^7 + 94332 r^7 R^7 - 54 l^6 R^8 + 654 l^4 r^2 R^8 -$$
$$22941 l^2 r^4 R^8 + 102459 r^6 R^8 + 1188 l^4 r R^9 - 8070 l^2 r^3 R^9 + 74106 r^5 R^9 + 108 l^4 R^{10} -$$
$$3600 l^2 r^2 R^{10} + 33228 r^4 R^{10} - 2106 l^2 r R^{11} + 9810 r^3 R^{11} - 81 l^2 R^{12} + 3699 r^2 R^{12} + 1296 r R^{13}\big) /$$
$$\big((r^2 + 2 r R - R^2)^2 \big(l^4 + 2 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 12 l^2 R^2 + 28 r^2 R^2 + 48 r R^3 + 27 R^4\big)^2\big)\Big)\}$$

$$\{X90,\ X(3)\text{-CROSS CONJUGATE OF } X(1),\ X95,\ \text{CEVAPOINT OF CENTROID AND CIRCUMCENTER},$$
$$-\Big(\big(l^{10} r^4 + 21 l^8 r^6 + 58 l^6 r^8 + 58 l^4 r^{10} + 21 l^2 r^{12} + r^{14} - 2 l^{10} r^3 R - 86 l^8 r^5 R - 764 l^6 r^7 R +$$
$$156 l^4 r^9 R + 350 l^2 r^{11} R + 26 r^{13} R + 88 l^8 r^4 R^2 + 1728 l^6 r^6 R^2 - 1120 l^4 r^8 R^2 + 2400 l^2 r^{10} R^2 +$$
$$296 r^{12} R^2 + 2 l^{10} r R^3 + 22 l^8 r^3 R^3 - 796 l^6 r^5 R^3 - 5028 l^4 r^7 R^3 + 8474 l^2 r^9 R^3 + 1934 r^{11} R^3 -$$
$$l^{10} R^4 - 61 l^8 r^2 R^4 - 714 l^6 r^4 R^4 - 3706 l^4 r^6 R^4 + 15419 l^2 r^8 R^4 + 7975 r^{10} R^4 + 8 l^8 r R^5 +$$
$$408 l^6 r^3 R^5 + 6104 l^4 r^5 R^5 + 11016 l^2 r^7 R^5 + 21440 r^9 R^5 + 8 l^8 R^6 + 224 l^6 r^2 R^6 + 192 l^4 r^4 R^6 -$$
$$3968 l^2 r^6 R^6 + 37272 r^8 R^6 - 128 l^6 r R^7 - 960 l^4 r^3 R^7 - 7360 l^2 r^5 R^7 + 39552 r^7 R^7 - 16 l^6 R^8 +$$
$$16 l^4 r^2 R^8 - 1008 l^2 r^4 R^8 + 21488 r^6 R^8 + 256 l^4 r R^9 - 1152 l^2 r^3 R^9 + 1920 r^5 R^9 - 2304 r^4 R^{10}\big) /$$
$$\big((r^2 + 2 r R - R^2)^2 \big(l^4 + 18 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 4 l^2 R^2 + 20 r^2 R^2 + 16 r R^3\big)^2\big)\Big)\}$$

$$\{X90,\ X(3)\text{-CROSS CONJUGATE OF } X(1),\ X96,\ \text{ISOGONAL CONJUGATE OF } X(52),$$
$$\big(l^{10} r^4 - 11 l^8 r^6 - 38 l^6 r^8 - 38 l^4 r^{10} - 11 l^2 r^{12} + r^{14} + 2 l^{10} r^3 R - 70 l^8 r^5 R + 476 l^6 r^7 R - 212 l^4 r^9 R -$$
$$222 l^2 r^{11} R + 26 r^{13} R - 8 l^{10} r^2 R^2 + 132 l^8 r^4 R^2 - 200 l^6 r^6 R^2 + 240 l^4 r^8 R^2 - 1936 l^2 r^{10} R^2 +$$
$$300 r^{12} R^2 + 6 l^{10} r R^3 + 66 l^8 r^3 R^3 - 1684 l^6 r^5 R^3 + 4740 l^4 r^7 R^3 - 9426 l^2 r^9 R^3 + 2010 r^{11} R^3 -$$
$$l^{10} R^4 - 37 l^8 r^2 R^4 - 1362 l^6 r^4 R^4 + 13518 l^4 r^6 R^4 - 27645 l^2 r^8 R^4 + 8583 r^{10} R^4 - 44 l^8 r R^5 +$$
$$328 l^6 r^3 R^5 + 11968 l^4 r^5 R^5 - 48680 l^2 r^7 R^5 + 24076 r^9 R^5 + 12 l^8 R^6 + 552 l^6 r^2 R^6 + 768 l^4 r^4 R^6 -$$
$$46376 l^2 r^6 R^6 + 43828 r^8 R^6 + 64 l^6 r R^7 - 3792 l^4 r^3 R^7 - 14176 l^2 r^5 R^7 + 48240 r^7 R^7 - 56 l^6 R^8 -$$
$$1368 l^4 r^2 R^8 + 9416 l^2 r^4 R^8 + 24744 r^6 R^8 + 192 l^4 r R^9 + 7424 l^2 r^3 R^9 - 4416 r^5 R^9 + 128 l^4 R^{10} +$$
$$672 l^2 r^2 R^{10} - 10976 r^4 R^{10} - 608 l^2 r R^{11} - 3424 r^3 R^{11} - 144 l^2 R^{12} + 560 r^2 R^{12} + 448 r R^{13} + 64 R^{14}\big) /$$
$$\big((r^2 + 2 r R - R^2)^2 \big(l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2 - 4 R^4\big)^2\big)\}$$

$$\{X90,\ X(3)\text{-CROSS CONJUGATE OF } X(1),\ X97,\ \text{ISOGONAL CONJUGATE OF } X(53),$$
$$-\Big(\big(R\big(-4 l^{10} r^3 + 36 l^8 r^5 - 76 l^6 r^7 + 12 l^4 r^9 + 46 l^8 r^4 R - 222 l^6 r^6 R + 170 l^4 r^8 R - 10 l^2 r^{10} R + 82 l^8 r^3 R^2 -$$
$$676 l^6 r^5 R^2 + 908 l^4 r^7 R^2 - 156 l^2 r^9 R^2 + 2 r^{11} R^2 - 2 l^8 r^2 R^3 - 795 l^6 r^4 R^3 + 2659 l^4 r^6 R^3 - 1037 l^2$$
$$r^8 R^3 + 39 r^{10} R^3 + 2 l^8 r R^4 - 610 l^6 r^3 R^4 + 4666 l^4 r^5 R^4 - 3878 l^2 r^7 R^4 + 332 r^9 R^4 - 22 l^6 r^2 R^5 +$$
$$4598 l^4 r^4 R^5 - 8994 l^2 r^6 R^5 + 1618 r^8 R^5 - 22 l^6 r R^6 + 2478 l^4 r^3 R^6 - 13218 l^2 r^5 R^6 + 4970 r^7 R^6 -$$
$$l^6 R^7 + 309 l^4 r^2 R^7 - 11783 l^2 r^4 R^7 + 9971 r^6 R^7 + 104 l^4 r R^8 - 5600 l^2 r^3 R^8 + 13080 r^5 R^8 + 8 l^4 R^9 -$$
$$1168 l^2 r^2 R^9 + 10920 r^4 R^9 - 256 l^2 r R^{10} + 5504 r^3 R^{10} - 16 l^2 R^{11} + 1584 r^2 R^{11} + 256 r R^{12}\big)\big) /$$
$$\big((r^2 + 2 r R - R^2)^2 \big(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 7 l^2 R^2 + 23 r^2 R^2 + 28 r R^3 + 12 R^4\big)^2\big)\Big)\}$$

$$\{X90,\ X(3)\text{-CROSS CONJUGATE OF } X(1),\ X98,\ \text{TarryPoint},$$
$$\frac{1}{(r^2 + 2 r R - R^2)^2 \big(l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\big)}$$
$$\big(l^6 r^4 + 3 l^4 r^6 + 3 l^2 r^8 + r^{10} + 2 l^6 r^3 R - 34 l^4 r^5 R + 14 l^2 r^7 R + 18 r^9 R - 8 l^6 r^2 R^2 + 36 l^4 r^4 R^2 - 32 l^2 r^6 R^2 +$$
$$132 r^8 R^2 + 6 l^6 r R^3 + 62 l^4 r^3 R^3 - 246 l^2 r^5 R^3 + 498 r^7 R^3 - l^6 R^4 - 43 l^4 r^2 R^4 - 339 l^2 r^4 R^4 + 983 r^6 R^4 -$$
$$12 l^4 r R^5 + 112 l^2 r^3 R^5 + 828 r^5 R^5 + 4 l^4 R^6 + 168 l^2 r^2 R^6 - 108 r^4 R^6 - 32 l^2 r R^7 - 416 r^3 R^7 + 64 r^2 R^8\big)\}$$

$$\{X90,\ X(3)\text{-CROSS CONJUGATE OF } X(1),\ X99,\ \text{STEINER POINT},$$
$$-\Big(\big(l^6 r^4 + 3 l^4 r^6 + 3 l^2 r^8 + r^{10} - 2 l^6 r^3 R + 22 l^4 r^5 R + 10 l^2 r^7 R + 18 r^9 R -$$
$$48 l^4 r^4 R^2 + 128 r^8 R^2 + 2 l^6 r R^3 + 34 l^4 r^3 R^3 + 62 l^2 r^5 R^3 + 446 r^7 R^3 - l^6 R^4 -$$
$$27 l^4 r^2 R^4 + 141 l^2 r^4 R^4 + 743 r^6 R^4 + 16 l^4 r R^5 - 216 l^2 r^3 R^5 + 408 r^5 R^5 - 144 r^4 R^6\big) /$$
$$\big((r^2 + 2 r R - R^2)^2 \big(l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\big)\big)\Big)\}$$

$$\left\{X90,\ X(3)\text{-CROSS CONJUGATE OF } X(1),\ X100,\ \text{ANTICOMPLEMENT OF FEUERBACH POINT},\ \frac{R\left(5 l^2 r^4+r^6-10 l^2 r^3 R+10 r^5 R+4 l^2 r^2 R^2+28 r^4 R^2+2 l^2 r R^3+6 r^3 R^3-l^2 R^4-45 r^2 R^4+16 r R^5\right)}{(2 r-R)\left(r^2+2 r R-R^2\right)^2}\right\}$$

$$\left\{X91,\ \text{ISOGONAL CONJUGATE OF } X(47),\ X92,\ \text{CEVAPOINT OF INCENTER AND CLAWSON POINT},\ \frac{1}{\left(l^2+r^2-4 R^2\right)^2\left(l^2 r+r^3-l^2 R+3 r^2 R+2 r R^2+2 R^3\right)^2}\right.$$
$$\left.R^2\left(l^{10}+l^8 r^2-6 l^6 r^4-14 l^4 r^6-11 l^2 r^8-3 r^{10}-32 l^8 r R+88 l^6 r^3 R-184 l^4 r^5 R+136 l^2 r^7 R-72 r^9 R-12 l^8 R^2+312 l^6 r^2 R^2-960 l^4 r^4 R^2+1384 l^2 r^6 R^2-660 r^8 R^2+336 l^6 r R^3-2288 l^4 r^3 R^3+4848 l^2 r^5 R^3-3152 r^7 R^3+52 l^6 R^4-2564 l^4 r^2 R^4+9212 l^2 r^4 R^4-8844 r^6 R^4-1248 l^4 r R^5+10400 l^2 r^3 R^5-15488 r^5 R^5-96 l^4 R^6+6592 l^2 r^2 R^6-17440 r^4 R^6+1920 l^2 r R^7-12544 r^3 R^7+64 l^2 R^8-5312 r^2 R^8-1024 r R^9\right)\right\}$$

$$\left\{X91,\ \text{ISOGONAL CONJUGATE OF } X(47),\ X93,\ \text{ISOGONAL CONJUGATE OF } X(49),\right.$$
$$\left(R^2\left(l^{14}-13 l^{12} r^2+45 l^{10} r^4+7 l^8 r^6-141 l^6 r^8-55 l^4 r^{10}+31 l^2 r^{12}-3 r^{14}-38 l^{12} r R+480 l^{10} r^3 R-1910 l^8 r^5 R+2704 l^6 r^7 R-2194 l^4 r^9 R+784 l^2 r^{11} R-82 r^{13} R-14 l^{12} R^2+684 l^{10} r^2 R^2-6026 l^8 r^4 R^2+17896 l^6 r^6 R^2-19586 l^4 r^8 R^2+8044 l^2 r^{10} R^2-998 r^{12} R^2+478 l^{10} r R^3-8822 l^8 r^3 R^3+46060 l^6 r^5 R^3-80684 l^4 r^7 R^3+45238 l^2 r^9 R^3-7134 r^{11} R^3+76 l^{10} R^4-6244 l^8 r^2 R^4+62784 l^6 r^4 R^4-184912 l^4 r^6 R^4+156116 l^2 r^8 R^4-33260 r^{10} R^4-2322 l^8 r R^5+50700 l^6 r^3 R^5-256672 l^4 r^5 R^5+347764 l^2 r^7 R^5-106190 r^9 R^5-202 l^8 R^6+23136 l^6 r^2 R^6-224172 l^4 r^4 R^6+511040 l^2 r^6 R^6-237290 r^8 R^6+5534 l^6 r R^7-124242 l^4 r^3 R^7+498674 l^2 r^5 R^7-373118 r^7 R^7+271 l^6 R^8-40731 l^4 r^2 R^8+321829 l^2 r^4 R^8-410305 r^6 R^8-6796 l^4 r R^9+134600 l^2 r^3 R^9-310892 r^5 R^9-160 l^4 R^{10}+33592 l^2 r^2 R^{10}-158728 r^4 R^{10}+4056 l^2 r R^{11}-52664 r^3 R^{11}+12 l^2 R^{12}-10340 r^2 R^{12}-912 r R^{13}+16 R^{14}\right)\Big/\left(\left(l^2 r+r^3-l^2 R+3 r^2 R+2 r R^2+2 R^3\right)^2\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-8 l^2 R^2+24 r^2 R^2+32 r R^3+13 R^4\right)^2\right)\right\}$$

$$\left\{X91,\ \text{ISOGONAL CONJUGATE OF } X(47),\ X94,\ \text{ISOGONAL CONJUGATE OF } X(50),\right.$$
$$\left(R^2\left(l^{14}-13 l^{12} r^2+45 l^{10} r^4+7 l^8 r^6-141 l^6 r^8-55 l^4 r^{10}+31 l^2 r^{12}-3 r^{14}-44 l^{12} r R+516 l^{10} r^3 R-1912 l^8 r^5 R+2664 l^6 r^7 R-2108 l^4 r^9 R+852 l^2 r^{11} R-96 r^{13} R-16 l^{12} R^2+912 l^{10} r^2 R^2-7456 l^8 r^4 R^2+20320 l^6 r^6 R^2-21648 l^4 r^8 R^2+9744 l^2 r^{10} R^2-1344 r^{12} R^2+628 l^{10} r R^3-12304 l^8 r^3 R^3+61048 l^6 r^5 R^3-103120 l^4 r^7 R^3+61812 l^2 r^9 R^3-10944 r^{11} R^3+106 l^{10} R^4-9906 l^8 r^2 R^4+97628 l^6 r^4 R^4-274236 l^4 r^6 R^4+242266 l^2 r^8 R^4-57842 r^{10} R^4-3660 l^8 r R^5+89396 l^6 r^3 R^5-445212 l^4 r^5 R^5+616860 l^2 r^7 R^5-209096 r^9 R^5-372 l^8 R^6+45552 l^6 r^2 R^6-454392 l^4 r^4 R^6+1045232 l^2 r^6 R^6-530100 r^8 R^6+11100 l^6 r R^7-287368 l^4 r^3 R^7+1187452 l^2 r^5 R^7-950912 r^7 R^7+729 l^6 R^8-105045 l^4 r^2 R^8+894051 l^2 r^4 R^8-1203839 r^6 R^8-18360 l^4 r R^9+428928 l^2 r^3 R^9-1061352 r^5 R^9-756 l^4 R^{10}+119808 l^2 r^2 R^{10}-633708 r^4 R^{10}+15552 l^2 r R^{11}-242928 r^3 R^{11}+324 l^2 R^{12}-53676 r^2 R^{12}-5184 r R^{13}\right)\Big/\right.$$
$$\left.\left(\left(l^2 r+r^3-l^2 R+3 r^2 R+2 r R^2+2 R^3\right)^2\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-12 l^2 R^2+28 r^2 R^2+48 r R^3+27 R^4\right)^2\right)\right\}$$

$$\left\{X91,\ \text{ISOGONAL CONJUGATE OF } X(47),\ X95,\ \text{CEVAPOINT OF CENTROID AND CIRCUMCENTER},\right.$$
$$\left(R\left(16 l^{12} r^3+144 l^{10} r^5-2272 l^8 r^7+5280 l^6 r^9-560 l^4 r^{11}-48 l^2 r^{13}+l^{14} R+3 l^{12} r^2 R-547 l^{10} r^4 R+807 l^8 r^6 R+11603 l^6 r^8 R-2919 l^4 r^{10} R-881 l^2 r^{12} R-3 r^{14} R-32 l^{12} r R^2-104 l^{10} r^3 R^2+3736 l^8 r^5 R^2-3920 l^6 r^7 R^2+2128 l^4 r^9 R^2-6600 l^2 r^{11} R^2-72 r^{13} R^2-12 l^{12} R^3+352 l^{10} r^2 R^3+3076 l^8 r^4 R^3-26912 l^6 r^6 R^3+37500 l^4 r^8 R^3-25792 l^2 r^{10} R^3-756 r^{12} R^3+336 l^{10} r R^4-2640 l^8 r^3 R^4-12960 l^6 r^5 R^4+71456 l^4 r^7 R^4-54192 l^2 r^9 R^4-4560 r^{11} R^4+52 l^{10} R^5-2972 l^8 r^2 R^5+8232 l^6 r^4 R^5+31208 l^4 r^6 R^5-49692 l^2 r^8 R^5-17420 r^{10} R^5-1248 l^8 r R^6+16288 l^6 r^3 R^6-36576 l^4 r^5 R^6+19936 l^2 r^7 R^6-43712 r^9 R^6-96 l^8 R^7+7680 l^6 r^2 R^7-44800 l^4 r^4 R^7+89472 l^2 r^6 R^7-71968 r^8 R^7+1920 l^6 r R^8-24960 l^4 r^3 R^8+78720 l^2 r^5 R^8-74624 r^7 R^8+64 l^6 R^9-6208 l^4 r^2 R^9+30144 l^2 r^4 R^9-43456 r^6 R^9-1024 l^4 r R^{10}+6656 l^2 r^3 R^{10}-9728 r^5 R^{10}+1024 r^4 R^{11}\right)\Big/\left(\left(l^2 r+r^3-l^2 R+3 r^2 R+2 r R^2+2 R^3\right)^2\left(l^4+18 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-4 l^2 R^2+20 r^2 R^2+16 r R^3\right)^2\right)\right\}$$

$$\{X91,\ \text{ISOGONAL CONJUGATE OF } X(47),\ X96,\ \text{ISOGONAL CONJUGATE OF } X(52),$$
$$\big(R\,(l^2-2\,l\,r-r^2-4\,r\,R-2\,R^2)^2\,(l^2+2\,l\,r-r^2-4\,r\,R-2\,R^2)^2$$
$$(2\,l^6\,r-34\,l^4\,r^3+86\,l^2\,r^5-6\,r^7-l^6\,R+l^4\,r^2\,R+149\,l^2\,r^4\,R-45\,r^6\,R-4\,l^4\,r\,R^2+40\,l^2\,r^3\,R^2-84\,r^5\,R^2+$$
$$8\,l^4\,R^3-48\,l^2\,r^2\,R^3+40\,r^4\,R^3-24\,l^2\,r\,R^4+168\,r^3\,R^4-20\,l^2\,R^5+124\,r^2\,R^5+48\,r\,R^6+16\,R^7)\big)\,/$$
$$\big((l^2\,r+r^3-l^2\,R+3\,r^2\,R+2\,r\,R^2+2\,R^3)^2\,(l^4-14\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R+16\,r^2\,R^2-4\,R^4)^2\big)\}$$

$$\{X91,\ \text{ISOGONAL CONJUGATE OF } X(47),\ X97,\ \text{ISOGONAL CONJUGATE OF } X(53),$$
$$\big(l^{14}\,r^2-3\,l^{12}\,r^4-15\,l^{10}\,r^6-11\,l^8\,r^8+11\,l^6\,r^{10}+15\,l^4\,r^{12}+3\,l^2\,r^{14}-r^{16}-38\,l^{12}\,r^3\,R+228\,l^{10}\,r^5\,R-$$
$$530\,l^8\,r^7\,R+856\,l^6\,r^9\,R-234\,l^4\,r^{11}\,R+132\,l^2\,r^{13}\,R-30\,r^{15}\,R-20\,l^{12}\,r^2\,R^2+536\,l^{10}\,r^4\,R^2-$$
$$2608\,l^8\,r^6\,R^2+5760\,l^6\,r^8\,R^2-4164\,l^4\,r^{10}\,R^2+1864\,l^2\,r^{12}\,R^2-408\,r^{14}\,R^2-2\,l^{12}\,r\,R^3+682\,l^{10}\,r^3\,R^3-$$
$$6284\,l^8\,r^5\,R^3+19\,748\,l^6\,r^7\,R^3-24\,810\,l^4\,r^9\,R^3+13\,746\,l^2\,r^{11}\,R^3-3336\,r^{13}\,R^3+234\,l^{10}\,r^2\,R^4-$$
$$7986\,l^8\,r^4\,R^4+42\,572\,l^6\,r^6\,R^4-82\,572\,l^4\,r^8\,R^4+62\,826\,l^2\,r^{10}\,R^4-18\,338\,r^{12}\,R^4+32\,l^{10}\,r\,R^5-$$
$$5832\,l^8\,r^3\,R^5+59\,816\,l^6\,r^5\,R^5-178\,568\,l^4\,r^7\,R^5+193\,528\,l^2\,r^9\,R^5-71\,792\,r^{11}\,R^5+l^{10}\,R^6-$$
$$1695\,l^8\,r^2\,R^6+53\,542\,l^6\,r^4\,R^6-265\,962\,l^4\,r^6\,R^6+420\,889\,l^2\,r^8\,R^6-206\,839\,r^{10}\,R^6-232\,l^8\,r\,R^7+$$
$$28\,760\,l^6\,r^3\,R^7-274\,840\,l^4\,r^5\,R^7+662\,184\,l^2\,r^7\,R^7-446\,720\,r^9\,R^7-12\,l^8\,R^8+7440\,l^6\,r^2\,R^8-$$
$$191\,080\,l^4\,r^4\,R^8+758\,160\,l^2\,r^6\,R^8-729\,324\,r^8\,R^8+944\,l^6\,r\,R^9-82\,832\,l^4\,r^3\,R^9+623\,024\,l^2\,r^5\,R^9-$$
$$899\,664\,r^7\,R^9+52\,l^6\,R^{10}-19\,108\,l^4\,r^2\,R^{10}+353\,452\,l^2\,r^4\,R^{10}-830\,012\,r^6\,R^{10}-2144\,l^4\,r\,R^{11}+$$
$$128\,256\,l^2\,r^3\,R^{11}-559\,648\,r^5\,R^{11}-96\,l^4\,R^{12}+25\,920\,l^2\,r^2\,R^{12}-264\,288\,r^4\,R^{12}+2432\,l^2\,r\,R^{13}-$$
$$81\,024\,r^3\,R^{13}+64\,l^2\,R^{14}-14\,016\,r^2\,R^{14}-1024\,r\,R^{15}\big)\,/\,\big((l^2\,r+r^3-l^2\,R+3\,r^2\,R+2\,r\,R^2+2\,R^3)^2$$
$$(l^4-6\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-7\,l^2\,R^2+23\,r^2\,R^2+28\,r\,R^3+12\,R^4)^2\big)\}$$

$$\{X91,\ \text{ISOGONAL CONJUGATE OF } X(47),\ X98,\ \text{TarryPoint},$$
$$\big(R\,(2\,l^{10}\,r-30\,l^8\,r^3+148\,l^6\,r^5-252\,l^4\,r^7+74\,l^2\,r^9-6\,r^{11}-l^{10}\,R-25\,l^8\,r^2\,R+342\,l^6\,r^4\,R-1074\,l^4\,r^6\,R+$$
$$763\,l^2\,r^8\,R-101\,r^{10}\,R+4\,l^8\,r\,R^2+280\,l^6\,r^3\,R^2-2000\,l^4\,r^5\,R^2+2920\,l^2\,r^7\,R^2-692\,r^9\,R^2+$$
$$8\,l^8\,R^3+24\,l^6\,r^2\,R^3-1752\,l^4\,r^4\,R^3+5352\,l^2\,r^6\,R^3-2480\,r^8\,R^3-88\,l^6\,r\,R^4-424\,l^4\,r^3\,R^4+$$
$$5176\,l^2\,r^5\,R^4-4984\,r^7\,R^4-20\,l^6\,R^5+324\,l^4\,r^2\,R^5+2340\,l^2\,r^4\,R^5-5620\,r^6\,R^5+208\,l^4\,r\,R^6-$$
$$192\,l^2\,r^3\,R^6-3344\,r^5\,R^6+16\,l^4\,R^7-608\,l^2\,r^2\,R^7-688\,r^4\,R^7-128\,l^2\,r\,R^8+384\,r^3\,R^8+256\,r^2\,R^9)\big)\,/$$
$$\big((l^4-14\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R+16\,r^2\,R^2)\,(l^2\,r+r^3-l^2\,R+3\,r^2\,R+2\,r\,R^2+2\,R^3)^2\big)\}$$

$$\{X91,\ \text{ISOGONAL CONJUGATE OF } X(47),\ X99,\ \text{STEINER POINT},$$
$$\big(R\,(-16\,l^8\,r^3+144\,l^6\,r^5-304\,l^4\,r^7+48\,l^2\,r^9+l^{10}\,R-15\,l^8\,r^2\,R+298\,l^6\,r^4\,R-1470\,l^4\,r^6\,R+517\,l^2\,r^8\,R-$$
$$3\,r^{10}\,R-24\,l^8\,r\,R^2+424\,l^6\,r^3\,R^2-2648\,l^4\,r^5\,R^2+2232\,l^2\,r^7\,R^2-48\,r^9\,R^2-4\,l^8\,R^3+184\,l^6\,r^2\,R^3-$$
$$2160\,l^4\,r^4\,R^3+4648\,l^2\,r^6\,R^3-300\,r^8\,R^3+80\,l^6\,r\,R^4-1264\,l^4\,r^3\,R^4+4656\,l^2\,r^5\,R^4-912\,r^7\,R^4+$$
$$4\,l^6\,R^5-276\,l^4\,r^2\,R^5+2028\,l^2\,r^4\,R^5-1340\,r^6\,R^5-64\,l^4\,r\,R^6+608\,l^2\,r^3\,R^6-736\,r^5\,R^6+64\,r^4\,R^7)\big)\,/$$
$$\big((l^4-14\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R+16\,r^2\,R^2)\,(l^2\,r+r^3-l^2\,R+3\,r^2\,R+2\,r\,R^2+2\,R^3)^2\big)\}$$

$$\{X91,\ \text{ISOGONAL CONJUGATE OF } X(47),\ X100,\ \text{ANTICOMPLEMENT OF FEUERBACH POINT},$$
$$-\big((R\,(-2\,l^6\,r^2+14\,l^4\,r^4-46\,l^2\,r^6+2\,r^8+32\,l^4\,r^3\,R-144\,l^2\,r^5\,R+16\,r^7\,R+l^6\,R^2+3\,l^4\,r^2\,R^2-117\,l^2\,r^4\,R^2+$$
$$25\,r^6\,R^2-24\,l^4\,r\,R^3+48\,l^2\,r^3\,R^3-88\,r^5\,R^3-4\,l^4\,R^4+136\,l^2\,r^2\,R^4-324\,r^4\,R^4+80\,l^2\,r\,R^5-$$
$$400\,r^3\,R^5+4\,l^2\,R^6-236\,r^2\,R^6-64\,r\,R^7)\big)\,/\,\big((2\,r-R)\,(l^2\,r+r^3-l^2\,R+3\,r^2\,R+2\,r\,R^2+2\,R^3)^2\big)\big)\}$$

$$\{X92,\ \text{CEVAPOINT OF INCENTER AND CLAWSON POINT},\ X93,\ \text{ISOGONAL CONJUGATE OF } X(49),$$
$$\big(4\,(l-r-2\,R)^2\,R^2\,(l+r+2\,R)^2\,(12\,l^6\,r^2+20\,l^4\,r^4+4\,l^2\,r^6-4\,r^8+10\,l^6\,r\,R-242\,l^4\,r^3\,R+190\,l^2\,r^5\,R-$$
$$70\,r^7\,R+2\,l^6\,R^2-266\,l^4\,r^2\,R^2+1030\,l^2\,r^4\,R^2-494\,r^6\,R^2-98\,l^4\,r\,R^3+1948\,l^2\,r^3\,R^3-1794\,r^5\,R^3-$$
$$12\,l^4\,R^4+1252\,l^2\,r^2\,R^4-3536\,r^4\,R^4+298\,l^2\,r\,R^5-3638\,r^3\,R^5+18\,l^2\,R^6-1694\,r^2\,R^6-282\,r\,R^7+R^8)\big)\,/$$
$$\big((l^2+r^2-4\,R^2)^2\,(l^4+2\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-8\,l^2\,R^2+24\,r^2\,R^2+32\,r\,R^3+13\,R^4)^2\big)\}$$

$$\{X92,\ \text{CEVAPOINT OF INCENTER AND CLAWSON POINT},\ X94,\ \text{ISOGONAL CONJUGATE OF } X(50),$$
$$\big(4\,R^2\,(12\,l^{10}\,r^2-4\,l^8\,r^4-24\,l^6\,r^6+8\,l^4\,r^8+12\,l^2\,r^{10}-4\,r^{12}+24\,l^{10}\,r\,R-356\,l^8\,r^3\,R+600\,l^6\,r^5\,R-$$
$$560\,l^4\,r^7\,R+400\,l^2\,r^9\,R-108\,r^{11}\,R+9\,l^{10}\,R^2-813\,l^8\,r^2\,R^2+4274\,l^6\,r^4\,R^2-6402\,l^4\,r^6\,R^2+$$
$$4613\,l^2\,r^8\,R^2-1297\,r^{10}\,R^2-612\,l^8\,r\,R^3+10\,428\,l^6\,r^3\,R^3-28\,620\,l^4\,r^5\,R^3+27\,492\,l^2\,r^7\,R^3-$$
$$9136\,r^9\,R^3-126\,l^8\,R^4+11\,224\,l^6\,r^2\,R^4-66\,772\,l^4\,r^4\,R^4+97\,576\,l^2\,r^6\,R^4-41\,902\,r^8\,R^4+5160\,l^6\,r\,R^5-$$
$$86\,700\,l^4\,r^3\,R^5+218\,456\,l^2\,r^5\,R^5-131\,284\,r^7\,R^5+657\,l^6\,R^6-60\,567\,l^4\,r^2\,R^6+312\,351\,l^2\,r^4\,R^6-$$
$$286\,521\,r^6\,R^6-19\,404\,l^4\,r\,R^7+277\,788\,l^2\,r^3\,R^7-435\,328\,r^5\,R^7-1512\,l^4\,R^8+141\,552\,l^2\,r^2\,R^8-$$
$$451\,044\,r^4\,R^8+33\,264\,l^2\,r\,R^9-303\,408\,r^3\,R^9+1296\,l^2\,R^{10}-119\,232\,r^2\,R^{10}-20\,736\,r\,R^{11})\big)\,/$$
$$\big((l^2+r^2-4\,R^2)^2\,(l^4+2\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-12\,l^2\,R^2+28\,r^2\,R^2+48\,r\,R^3+27\,R^4)^2\big)\}$$

$$\{X92,\ \text{CEVAPOINT OF INCENTER AND CLAWSON POINT},\ X95,\ \text{CEVAPOINT OF CENTROID AND CIRCUMCENTER},$$
$$-\left(\left(16 r^2 R \left(12 l^{10} r + 200 l^8 r^3 - 272 l^6 r^5 + 56 l^4 r^7 + 4 l^2 r^9 - 3 l^{10} R - 295 l^8 r^2 R - 818 l^6 r^4 R + 326 l^4 r^6 R + 85 l^2 r^8 R + r^{10} R - 40 l^8 r R^2 + 448 l^6 r^3 R^2 + 144 l^4 r^5 R^2 + 704 l^2 r^7 R^2 + 24 r^9 R^2 + 36 l^8 R^3 + 1784 l^6 r^2 R^3 - 2464 l^4 r^4 R^3 + 2952 l^2 r^6 R^3 + 252 r^8 R^3 - 496 l^6 r R^4 - 4912 l^4 r^3 R^4 + 6448 l^2 r^5 R^4 + 1520 r^7 R^4 - 160 l^6 R^5 - 720 l^4 r^2 R^5 + 5696 l^2 r^4 R^5 + 5808 r^6 R^5 + 3200 l^4 r R^6 - 3456 l^2 r^3 R^6 + 14592 r^5 R^6 + 320 l^4 R^7 - 10880 l^2 r^2 R^7 + 24128 r^4 R^7 - 6400 l^2 r R^8 + 25344 r^3 R^8 - 256 l^2 R^9 + 15360 r^2 R^9 + 4096 r R^{10}\right)\right) \Big/ \left(\left(l^2 + r^2 - 4 R^2\right)^2 \left(l^4 + 18 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 4 l^2 R^2 + 20 r^2 R^2 + 16 r R^3\right)^2\right)\right)\}$$

$$\{X92,\ \text{CEVAPOINT OF INCENTER AND CLAWSON POINT},\ X96,\ \text{ISOGONAL CONJUGATE OF X(52)},$$
$$-\left(\left(4 R \left(6 l^{12} r - 128 l^{10} r^3 + 678 l^8 r^5 - 848 l^6 r^7 + 338 l^4 r^9 - 48 l^2 r^{11} + 2 r^{13} - 3 l^{12} R - 74 l^{10} r^2 R + 1491 l^8 r^4 R - 5116 l^6 r^6 R + 3747 l^4 r^8 R - 794 l^2 r^{10} R + 45 r^{12} R + 1448 l^8 r^3 R^2 - 11152 l^6 r^5 R^2 + 16288 l^4 r^7 R^2 - 5488 l^2 r^9 R^2 + 440 r^{11} R^2 + 40 l^{10} R^3 + 24 l^8 r^2 R^3 - 9984 l^6 r^4 R^3 + 34784 l^4 r^6 R^3 - 20392 l^2 r^8 R^3 + 2440 r^{10} R^3 - 480 l^8 r R^4 - 2128 l^6 r^3 R^4 + 35888 l^4 r^5 R^4 - 43184 l^2 r^7 R^4 + 8368 r^9 R^4 - 208 l^8 R^5 + 3600 l^6 r^2 R^5 + 10240 l^4 r^4 R^5 - 48816 l^2 r^6 R^5 + 17968 r^8 R^5 + 2656 l^6 r R^6 - 12992 l^4 r^3 R^6 - 16736 l^2 r^5 R^6 + 22464 r^7 R^6 + 544 l^6 R^7 - 14560 l^4 r^2 R^7 + 24800 l^2 r^4 R^7 + 10464 r^6 R^7 - 5728 l^4 r R^8 + 34752 l^2 r^3 R^8 - 12384 r^5 R^8 - 784 l^4 R^9 + 19488 l^2 r^2 R^9 - 24592 r^4 R^9 + 5504 l^2 r R^{10} - 18816 r^3 R^{10} + 640 l^2 R^{11} - 8064 r^2 R^{11} - 2048 r R^{12} - 256 R^{13}\right)\right) \Big/ \left(\left(l^2 + r^2 - 4 R^2\right)^2 \left(l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2 - 4 R^4\right)^2\right)\right)\}$$

$$\{X92,\ \text{CEVAPOINT OF INCENTER AND CLAWSON POINT},\ X97,\ \text{ISOGONAL CONJUGATE OF X(53)},$$
$$\left(l^{14} - 3 l^{12} r^2 - 15 l^{10} r^4 - 11 l^8 r^6 + 11 l^6 r^8 + 15 l^4 r^{10} + 3 l^2 r^{12} - r^{14} - 36 l^{12} r R + 224 l^{10} r^3 R - 564 l^8 r^5 R + 800 l^6 r^7 R - 268 l^4 r^9 R + 128 l^2 r^{11} R - 28 r^{13} R - 20 l^{12} R^2 + 492 l^{10} r^2 R^2 - 2508 l^8 r^4 R^2 + 5864 l^6 r^6 R^2 - 4380 l^4 r^8 R^2 + 1740 l^2 r^{10} R^2 - 356 r^{12} R^2 + 656 l^{10} r R^3 - 6056 l^8 r^3 R^3 + 19744 l^6 r^5 R^3 - 25008 l^4 r^7 R^3 + 12368 l^2 r^9 R^3 - 2728 r^{11} R^3 + 164 l^{10} R^4 - 7188 l^8 r^2 R^4 + 40536 l^6 r^4 R^4 - 79576 l^4 r^6 R^4 + 54532 l^2 r^8 R^4 - 14100 r^{10} R^4 - 4848 l^8 r R^5 + 53456 l^6 r^3 R^5 - 162640 l^4 r^5 R^5 + 161776 l^2 r^7 R^5 - 52096 r^9 R^5 - 704 l^8 R^6 + 42624 l^6 r^2 R^6 - 225520 l^4 r^4 R^6 + 336736 l^2 r^6 R^6 - 142128 r^8 R^6 + 18496 l^6 r R^7 - 210752 l^4 r^3 R^7 + 500288 l^2 r^5 R^7 - 291136 r^7 R^7 + 1664 l^6 R^8 - 123968 l^4 r^2 R^8 + 527744 l^2 r^4 R^8 - 449728 r^6 R^8 - 38144 l^4 r R^9 + 382208 l^2 r^3 R^9 - 519680 r^5 R^9 - 2048 l^4 R^{10} + 174592 l^2 r^2 R^{10} - 438528 r^4 R^{10} + 39936 l^2 r R^{11} - 257024 r^3 R^{11} + 1024 l^2 R^{12} - 94208 r^2 R^{12} - 16384 r R^{13}\right) \Big/ \left(\left(l^2 + r^2 - 4 R^2\right)^2 \left(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 7 l^2 R^2 + 23 r^2 R^2 + 28 r R^3 + 12 R^4\right)^2\right)\}$$

$$\{X92,\ \text{CEVAPOINT OF INCENTER AND CLAWSON POINT},\ X98,$$
$$\text{TarryPoint},\ -\frac{1}{\left(l^2 + r^2 - 4 R^2\right)^2 \left(l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\right)}$$
$$4 R \left(6 l^8 r - 44 l^6 r^3 + 56 l^4 r^5 - 20 l^2 r^7 + 2 r^9 - l^8 R - 60 l^6 r^2 R + 282 l^4 r^4 R - 204 l^2 r^6 R + 31 r^8 R - 32 l^6 r R^2 + 480 l^4 r^3 R^2 - 768 l^2 r^5 R^2 + 192 r^7 R^2 + 8 l^6 R^3 + 264 l^4 r^2 R^3 - 1320 l^2 r^4 R^3 + 600 r^6 R^3 - 960 l^2 r^3 R^4 + 960 r^5 R^4 - 16 l^4 R^5 - 96 l^2 r^2 R^5 + 624 r^4 R^5 + 128 l^2 r R^6 - 128 r^3 R^6 - 256 r^2 R^7\right)\}$$

$$\{X92,\ \text{CEVAPOINT OF INCENTER AND CLAWSON POINT},\ X99,\ \text{STEINER POINT},$$
$$\left(16 r^2 R \left(12 l^6 r - 16 l^4 r^3 + 4 l^2 r^5 + 3 l^6 R - 95 l^4 r^2 R + 45 l^2 r^4 R - r^6 R - 136 l^4 r R^2 + 216 l^2 r^3 R^2 - 16 r^5 R^2 - 12 l^4 R^3 + 464 l^2 r^2 R^3 - 100 r^4 R^3 + 368 l^2 r R^4 - 304 r^3 R^4 + 16 l^2 R^5 - 448 r^2 R^5 - 256 r R^6\right)\right) \Big/ \left(\left(l^2 + r^2 - 4 R^2\right)^2 \left(l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\right)\right)\}$$

$$\{X92,\ \text{CEVAPOINT OF INCENTER AND CLAWSON POINT},\ X100,\ \text{ANTICOMPLEMENT OF FEUERBACH POINT},$$
$$-\frac{4 r^2 R \left(5 l^4 - 10 l^2 r^2 + r^4 - 36 l^2 r R + 12 r^3 R - 32 l^2 R^2 + 52 r^2 R^2 + 96 r R^3 + 64 R^4\right)}{(2 r - R) \left(l^2 + r^2 - 4 R^2\right)^2}\}$$

$$\{X93,\ \text{ISOGONAL CONJUGATE OF } X(49),\ X94,\ \text{ISOGONAL CONJUGATE OF } X(50),$$
$$\Big(4R^4\big(2l^{14}+10l^{12}r^2+18l^{10}r^4+10l^8r^6-10l^6r^8-18l^4r^{10}-10l^2r^{12}-2r^{14}-56l^{12}rR-$$
$$144l^{10}r^3R-72l^8r^5R+32l^6r^7R-72l^4r^9R-144l^2r^{11}R-56r^{13}R-24l^{12}R^2+$$
$$144l^{10}r^2R^2+1400l^8r^4R^2-1440l^6r^6R^2+1112l^4r^8R^2-1008l^2r^{10}R^2-696r^{12}R^2+$$
$$576l^{10}rR^3+3392l^8r^3R^3-12672l^6r^5R^3+12928l^4r^7R^3-5312l^2r^9R^3-5056r^{11}R^3+$$
$$72l^{10}R^4+600l^8r^2R^4-36720l^6r^4R^4+62064l^4r^6R^4-24792l^2r^8R^4-23752r^{10}R^4-$$
$$1440l^8rR^5-44160l^6r^3R^5+164416l^4r^5R^5-93312l^2r^7R^5-75168r^9R^5+181l^8R^6-$$
$$20284l^6r^2R^6+250398l^4r^4R^6-250172l^2r^6R^6-160843r^8R^6-2896l^6rR^7+211248l^4r^3R^7-$$
$$447792l^2r^5R^7-223408r^7R^7-1446l^6R^8+89466l^4r^2R^8-511962l^2r^4R^8-171642r^6R^8+$$
$$17352l^4rR^9-352048l^2r^3R^9-10040r^5R^9+2898l^4R^{10}-131580l^2r^2R^{10}+118642r^4R^{10}-$$
$$23184l^2rR^{11}+115728r^3R^{11}-2268l^2R^{12}+48636r^2R^{12}+9072rR^{13}+729R^{14}\big)\Big)\Big/$$
$$\Big(\big(l^4+2l^2r^2+r^4-8l^2rR+8r^3R-8l^2R^2+24r^2R^2+32rR^3+13R^4\big)^2$$
$$\big(l^4+2l^2r^2+r^4-8l^2rR+8r^3R-12l^2R^2+28r^2R^2+48rR^3+27R^4\big)^2\Big)\}$$

$$\{X93,\ \text{ISOGONAL CONJUGATE OF } X(49),\ X95,\ \text{CEVAPOINT OF CENTROID AND CIRCUMCENTER},$$
$$\Big(4R^2\big(16l^{14}r^2+352l^{12}r^4-3856l^{10}r^6+8000l^8r^8-3856l^6r^{10}+352l^4r^{12}+16l^2r^{14}-384l^{12}r^3R-$$
$$5248l^{10}r^5R+36096l^8r^7R-36096l^6r^9R+5248l^4r^{11}R+384l^2r^{13}R+2l^{14}R^2-$$
$$182l^{12}r^2R^2-1838l^{10}r^4R^2+63114l^8r^6R^2-135306l^6r^8R^2+33326l^4r^{10}R^2+4022l^2r^{12}R^2-$$
$$2r^{14}R^2-56l^{12}rR^3+3696l^{10}r^3R^3+43960l^8r^5R^3-259552l^6r^7R^3+117688l^4r^9R^3+$$
$$24176l^2r^{11}R^3-56r^{13}R^3-28l^{12}R^4+1160l^{10}r^2R^4+4604l^8r^4R^4-271504l^6r^6R^4+$$
$$254172l^4r^8R^4+92168l^2r^{10}R^4-700r^{12}R^4+672l^{10}rR^5-12960l^8r^3R^5-144832l^6r^5R^5+$$
$$349888l^4r^7R^5+232224l^2r^9R^5-5152r^{11}R^5+146l^{10}R^6-4586l^8r^2R^6-23868l^6r^4R^6+$$
$$313532l^4r^6R^6+389802l^2r^8R^6-24786r^{10}R^6-2920l^8rR^7+13152l^6r^3R^7+187792l^4r^5R^7+$$
$$424800l^2r^7R^7-81768r^9R^7-335l^8R^8+7072l^6r^2R^8+83166l^4r^4R^8+270624l^2r^6R^8-$$
$$188559r^8R^8+5360l^6rR^9+31504l^4r^3R^9+50672l^2r^5R^9-303600r^7R^9+280l^6R^{10}+$$
$$5944l^4r^2R^{10}-68952l^2r^4R^{10}-334008r^6R^{10}-3360l^4rR^{11}-63296l^2r^3R^{11}-238624r^5R^{11}+$$
$$16l^4R^{12}-19040l^2r^2R^{12}-99184r^4R^{12}-128l^2rR^{13}-17792r^3R^{13}+256r^2R^{14}\big)\Big)\Big/$$
$$\Big(\big(l^4+18l^2r^2+r^4-8l^2rR+8r^3R-4l^2R^2+20r^2R^2+16rR^3\big)^2$$
$$\big(l^4+2l^2r^2+r^4-8l^2rR+8r^3R-8l^2R^2+24r^2R^2+32rR^3+13R^4\big)^2\Big)\}$$

$$\{X93,\ \text{ISOGONAL CONJUGATE OF } X(49),\ X96,\ \text{ISOGONAL CONJUGATE OF } X(52),$$
$$\Big(4R^2\big(5l^{16}-112l^{14}r^2+1020l^{12}r^4-4048l^{10}r^6+6014l^8r^8-4048l^6r^{10}+1020l^4r^{12}-$$
$$112l^2r^{14}+5r^{16}-160l^{14}rR+2848l^{12}r^3R-19168l^{10}r^5R+51552l^8r^7R-51552l^6r^9R+$$
$$19168l^4r^{11}R-2848l^2r^{13}R+160r^{15}R-87l^{14}R^2+3821l^{12}r^2R^2-42351l^{10}r^4R^2+$$
$$181581l^8r^6R^2-284685l^6r^8R^2+157359l^4r^{10}R^2-32301l^2r^{12}R^2+2327r^{14}R^2+$$
$$2436l^{12}rR^3-51976l^{10}r^3R^3+355388l^8r^5R^3-887408l^6r^7R^3+743996l^4r^9R^3-$$
$$215816l^2r^{11}R^3+20356r^{13}R^3+644l^{12}R^4-38096l^{10}r^2R^4+438860l^8r^4R^4-$$
$$1727840l^6r^6R^4+2249020l^4r^8R^4-945424l^2r^{10}R^4+119476r^{12}R^4-15456l^{10}rR^5+$$
$$352160l^8r^3R^5-2226240l^6r^5R^5+4570304l^4r^7R^5-2861408l^2r^9R^5+497056r^{11}R^5-$$
$$2687l^{10}R^6+180467l^8r^2R^6-1965390l^6r^4R^6+6417870l^4r^6R^6-6148659l^2r^8R^6+$$
$$1510207r^{10}R^6+53740l^8rR^7-1188944l^6r^3R^7+6338952l^4r^5R^7-9509968l^2r^7R^7+$$
$$3404268r^9R^7+7028l^8R^8-474148l^6r^2R^8+4443632l^4r^4R^8-10653028l^2r^6R^8+$$
$$5732052r^8R^8-112448l^6rR^9+2185952l^4r^3R^9-8660576l^2r^5R^9+7214272r^7R^9-$$
$$11948l^6R^{10}+721124l^4r^2R^{10}-5093028l^2r^4R^{10}+6763820r^6R^{10}+143376l^4rR^{11}-$$
$$2128288l^2r^3R^{11}+4694032r^5R^{11}+12960l^4R^{12}-602416l^2r^2R^{12}+2385632r^4R^{12}-$$
$$103680l^2rR^{13}+868352r^3R^{13}-8192l^2R^{14}+215552r^2R^{14}+32768rR^{15}+2304R^{16}\big)\Big)\Big/$$
$$\Big(\big(l^4-14l^2r^2+r^4-8l^2rR+8r^3R+16r^2R^2-4R^4\big)^2$$
$$\big(l^4+2l^2r^2+r^4-8l^2rR+8r^3R-8l^2R^2+24r^2R^2+32rR^3+13R^4\big)^2\Big)\}$$

{X93, ISOGONAL CONJUGATE OF X(49), X97, ISOGONAL CONJUGATE OF X(53),

$$\left(l^{18}-l^{16}r^2-20\,l^{14}r^4-44\,l^{12}r^6-26\,l^{10}r^8+26\,l^8r^{10}+44\,l^6r^{12}+20\,l^4r^{14}+l^2r^{16}-r^{18}-36\,l^{16}r\,R+64\,l^{14}r^3R+336\,l^{12}r^5R+192\,l^{10}r^7R-88\,l^8r^9R+192\,l^6r^{11}R+336\,l^4r^{13}R+64\,l^2r^{15}R-36\,r^{17}R-22\,l^{16}R^2+428\,l^{14}r^2R^2+320\,l^{12}r^4R^2-4972\,l^{10}r^6R^2+6124\,l^8r^8R^2-4204\,l^6r^{10}R^2+3008\,l^4r^{12}R^2+1196\,l^2r^{14}R^2-598\,r^{16}R^2+704\,l^{14}r\,R^3-2528\,l^{12}r^3R^3-15136\,l^{10}r^5R^3+49536\,l^8r^7R^3-50304\,l^6r^9R^3+20512\,l^4r^{11}R^3+11488\,l^2r^{13}R^3-6080\,r^{15}R^3+198\,l^{14}R^4-6506\,l^{12}r^2R^4-10658\,l^{10}r^4R^4+156238\,l^8r^6R^4-255310\,l^6r^8R^4+112226\,l^4r^{10}R^4+67626\,l^2r^{12}R^4-42310\,r^{14}R^4-5544\,l^{12}r\,R^5+17392\,l^{10}r^3R^5+244392\,l^8r^5R^5-752096\,l^6r^7R^5+464552\,l^4r^9R^5+262128\,l^2r^{11}R^5-213416\,r^{13}R^5-924\,l^{12}R^6+36832\,l^{10}r^2R^6+183004\,l^8r^4R^6-1399296\,l^6r^6R^6+1395068\,l^4r^8R^6+680800\,l^2r^{10}R^6-805756\,r^{12}R^6+22176\,l^{10}r\,R^7+9440\,l^8r^3R^7-1665344\,l^6r^5R^7+2992192\,l^4r^7R^7+1132704\,l^2r^9R^7-2317088\,r^{11}R^7+2293\,l^{10}R^8-84177\,l^8r^2R^8-1203718\,l^6r^4R^8+4534406\,l^4r^6R^8+935569\,l^2r^8R^8-5111093\,r^{10}R^8-45860\,l^8r\,R^9-422416\,l^6r^3R^9+4747816\,l^4r^5R^9-528912\,l^2r^7R^9-8632100\,r^9R^9-2530\,l^8R^{10}+12708\,l^6r^2R^{10}+3268140\,l^4r^4R^{10}-2655900\,l^2r^6R^{10}-11036418\,r^8R^{10}+40480\,l^6r\,R^{11}+1325376\,l^4r^3R^{11}-3719872\,l^2r^5R^{11}-10429088\,r^7R^{11}-328\,l^6R^{12}+238920\,l^4r^2R^{12}-2889672\,l^2r^4R^{12}-6962296\,r^6R^{12}+3936\,l^4r\,R^{13}-1283456\,l^2r^3R^{13}-2991776\,r^5R^{13}+3012\,l^4R^{14}-287624\,l^2r^2R^{14}-628924\,r^4R^{14}-24096\,l^2r\,R^{15}+45088\,r^3R^{15}-1952\,l^2R^{16}+50144\,r^2R^{16}+7808\,r\,R^{17}+576\,R^{18}\right)\Big/$$
$$\left(\left(l^4-6\,l^2r^2+r^4-8\,l^2r\,R+8\,r^3R-7\,l^2R^2+23\,r^2R^2+28\,r\,R^3+12\,R^4\right)^2\left(l^4+2\,l^2r^2+r^4-8\,l^2r\,R+8\,r^3R-8\,l^2R^2+24\,r^2R^2+32\,r\,R^3+13\,R^4\right)^2\right)\}$$

{X93, ISOGONAL CONJUGATE OF X(49), X98, TarryPoint,

$$\left(4\,R^2\left(3\,l^{12}-54\,l^{10}r^2+269\,l^8r^4-372\,l^6r^6+269\,l^4r^8-54\,l^2r^{10}+3\,r^{12}-72\,l^{10}r\,R+936\,l^8r^3R-3088\,l^6r^5R+3088\,l^4r^7R-936\,l^2r^9R+72\,r^{11}R-37\,l^{10}R^2+1297\,l^8r^2R^2-8794\,l^6r^4R^2+14970\,l^4r^6R^2-6913\,l^2r^8R^2+757\,r^{10}R^2+740\,l^8r\,R^3-11504\,l^6r^3R^3+38232\,l^4r^5R^3-28400\,l^2r^7R^3+4580\,r^9R^3+162\,l^8R^4-7880\,l^6r^2R^4+53964\,l^4r^4R^4-70792\,l^2r^6R^4+17602\,r^8R^4-2592\,l^6r\,R^5+41952\,l^4r^3R^5-109152\,l^2r^5R^5+44704\,r^7R^5-297\,l^6R^6+17735\,l^4r^2R^6-101639\,l^2r^4R^6+75497\,r^6R^6+3564\,l^4r\,R^7-53768\,l^2r^3R^7+82924\,r^5R^7+196\,l^4R^8-14660\,l^2r^2R^8+55924\,r^4R^8-1568\,l^2r\,R^9+20576\,r^3R^9+3136\,r^2R^{10}\right)\right)\Big/$$
$$\left(\left(l^4-14\,l^2r^2+r^4-8\,l^2r\,R+8\,r^3R+16\,r^2R^2\right)\left(l^4+2\,l^2r^2+r^4-8\,l^2r\,R+8\,r^3R-8\,l^2R^2+24\,r^2R^2+32\,r\,R^3+13\,R^4\right)^2\right)\}$$

{X93, ISOGONAL CONJUGATE OF X(49), X99, STEINER POINT,

$$-\left(\left(4\,R^2\left(16\,l^{10}r^2-192\,l^8r^4+608\,l^6r^6-192\,l^4r^8+16\,l^2r^{10}-256\,l^8r^3R+1792\,l^6r^5R-1792\,l^4r^7R+256\,l^2r^9R-2\,l^{10}R^2-134\,l^8r^2R^2+2428\,l^6r^4R^2-6012\,l^4r^6R^2+1670\,l^2r^8R^2+2\,r^{10}R^2+40\,l^8r\,R^3+1568\,l^6r^3R^3-9232\,l^4r^5R^3+5664\,l^2r^7R^3+40\,r^9R^3+12\,l^8R^4+352\,l^6r^2R^4-7832\,l^4r^4R^4+10720\,l^2r^6R^4+332\,r^8R^4-192\,l^6r\,R^5-3904\,l^4r^3R^5+11840\,l^2r^5R^5+1472\,r^7R^5-18\,l^6R^6-850\,l^4r^2R^6+8658\,l^2r^4R^6+3730\,r^6R^6+216\,l^4r\,R^7+4720\,l^2r^3R^7+5336\,r^5R^7-l^4R^8+1490\,l^2r^2R^8+3935\,r^4R^8+8\,l^2r\,R^9+1144\,r^3R^9-16\,r^2R^{10}\right)\right)\Big/$$
$$\left(\left(l^4-14\,l^2r^2+r^4-8\,l^2r\,R+8\,r^3R+16\,r^2R^2\right)\left(l^4+2\,l^2r^2+r^4-8\,l^2r\,R+8\,r^3R-8\,l^2R^2+24\,r^2R^2+32\,r\,R^3+13\,R^4\right)^2\right)\right)\}$$

{X93, ISOGONAL CONJUGATE OF X(49), X100, ANTICOMPLEMENT OF FEUERBACH POINT,

$$\left(4\,R\left(l^8r^2+4\,l^6r^4+6\,l^4r^6+4\,l^2r^8+r^{10}+2\,l^8r\,R-44\,l^6r^3R+56\,l^4r^5R-4\,l^2r^7R+22\,r^9R-50\,l^6r^2R^2+298\,l^4r^4R^2-278\,l^2r^6R^2+206\,r^8R^2-25\,l^6r\,R^3+671\,l^4r^3R^3-1431\,l^2r^5R^3+1073\,r^7R^3-2\,l^6R^4+492\,l^4r^2R^4-3234\,l^2r^4R^4+3408\,r^6R^4+150\,l^4r\,R^5-3616\,l^2r^3R^5+6794\,r^5R^5+12\,l^4R^6-1846\,l^2r^2R^6+8402\,r^4R^6-389\,l^2r\,R^7+6093\,r^3R^7-18\,l^2R^8+2279\,r^2R^8+334\,r\,R^9-R^{10}\right)\right)\Big/$$
$$\left((2\,r-R)\left(l^4+2\,l^2r^2+r^4-8\,l^2r\,R+8\,r^3R-8\,l^2R^2+24\,r^2R^2+32\,r\,R^3+13\,R^4\right)^2\right)\}$$

$$\{X94,\ \text{ISOGONAL CONJUGATE OF } X(50),\ X95,\ \text{CEVAPOINT OF CENTROID AND CIRCUMCENTER},$$
$$\Big(4R^2\big(24l^{14}r^2+528l^{12}r^4-3224l^{10}r^6+8928l^8r^8-3224l^6r^{10}+528l^4r^{12}+24l^2r^{14}-576l^{12}r^3R-$$
$$7872l^{10}r^5R+33664l^8r^7R-33664l^6r^9R+7872l^4r^{11}R+576l^2r^{13}R+9l^{14}R^2-$$
$$147l^{12}r^2R^2-4207l^{10}r^4R^2+72621l^8r^6R^2-139949l^6r^8R^2+51439l^4r^{10}R^2+5907l^2r^{12}R^2-$$
$$9r^{14}R^2-252l^{12}rR^3+3192l^{10}r^3R^3+85692l^8r^5R^3-320880l^6r^7R^3+196284l^4r^9R^3+$$
$$33912l^2r^{11}R^3-252r^{13}R^3-126l^{12}R^4+1644l^{10}r^2R^4+39886l^8r^4R^4-473816l^6r^6R^4+$$
$$493246l^4r^8R^4+119340l^2r^{10}R^4-3150r^{12}R^4+3024l^{10}rR^5-1104l^8r^3R^5-432224l^6r^5R^5+$$
$$867552l^4r^7R^5+262800l^2r^9R^5-23184r^{11}R^5+657l^{10}R^6-11565l^8r^2R^6-218142l^6r^4R^6+$$
$$1082590l^4r^6R^6+344973l^2r^8R^6-111537r^{10}R^6-13140l^8rR^7-49680l^6r^3R^7+$$
$$939144l^4r^5R^7+199152l^2r^7R^7-367956r^9R^7-1512l^8R^8+20772l^6r^2R^8+567864l^4r^4R^8-$$
$$144156l^2r^6R^8-848520r^8R^8+24192l^6rR^9+230112l^4r^3R^9-440928l^2r^5R^9-$$
$$1366272r^7R^9+1296l^6R^{10}+29808l^4r^2R^{10}-490032l^2r^4R^{10}-1503504r^6R^{10}-15552l^4rR^{11}-$$
$$297216l^2r^3R^{11}-1075392r^5R^{11}-77760l^2r^2R^{12}-449280r^4R^{12}-82944r^3R^{13}\big)\Big)\Big/$$
$$\Big(\big(l^4+18l^2r^2+r^4-8l^2rR+8r^3R-4l^2R^2+20r^2R^2+16rR^3\big)^2$$
$$\big(l^4+2l^2r^2+r^4-8l^2rR+8r^3R-12l^2R^2+28r^2R^2+48rR^3+27R^4\big)^2\Big)\}$$

$$\{X94,\ \text{ISOGONAL CONJUGATE OF } X(50),\ X96,\ \text{ISOGONAL CONJUGATE OF } X(52),$$
$$\Big(4R^2\big(l^4-6l^2r^2+r^4-8l^2rR+8r^3R-5l^2R^2+21r^2R^2+20rR^3+6R^4\big)^2$$
$$\big(2l^4-12l^2r^2+2r^4-16l^2rR+16r^3R-8l^2R^2+40r^2R^2+32rR^3+9R^4\big)$$
$$\big(3l^4-10l^2r^2+3r^4-24l^2rR+24r^3R-20l^2R^2+68r^2R^2+80rR^3+36R^4\big)\Big)\Big/$$
$$\Big(\big(l^4-14l^2r^2+r^4-8l^2rR+8r^3R+16r^2R^2-4R^4\big)^2$$
$$\big(l^4+2l^2r^2+r^4-8l^2rR+8r^3R-12l^2R^2+28r^2R^2+48rR^3+27R^4\big)^2\Big)\}$$

$$\{X94,\ \text{ISOGONAL CONJUGATE OF } X(50),\ X97,\ \text{ISOGONAL CONJUGATE OF } X(53),$$
$$\Big(l^{18}-l^{16}r^2-20l^{14}r^4-44l^{12}r^6-26l^{10}r^8+26l^8r^{10}+44l^6r^{12}+20l^4r^{14}+l^2r^{16}-r^{18}-36l^{16}rR+$$
$$64l^{14}r^3R+336l^{12}r^5R+192l^{10}r^7R-88l^8r^9R+192l^6r^{11}R+336l^4r^{13}R+64l^2r^{15}R-$$
$$36r^{17}R-24l^{16}R^2+428l^{14}r^2R^2+360l^{12}r^4R^2-4844l^{10}r^6R^2+6304l^8r^8R^2-4076l^6r^{10}R^2+$$
$$3048l^4r^{12}R^2+1196l^2r^{14}R^2-600r^{16}R^2+768l^{14}rR^3-2592l^{12}r^3R^3-15712l^{10}r^5R^3+$$
$$49088l^8r^7R^3-49856l^6r^9R^3+21088l^4r^{11}R^3+11552l^2r^{13}R^3-6144r^{15}R^3+238l^{14}R^4-$$
$$7250l^{12}r^2R^4-10186l^{10}r^4R^4+156982l^8r^6R^4-255158l^6r^8R^4+115210l^4r^{10}R^4+69010l^2r^{12}R^4-$$
$$43246r^{14}R^4-6664l^{12}rR^5+22640l^{10}r^3R^5+243720l^8r^5R^5-751840l^6r^7R^5+469000l^4r^9R^5+$$
$$275568l^2r^{11}R^5-221704r^{13}R^5-1248l^{12}R^6+47344l^{10}r^2R^6+161152l^8r^4R^6-1387616l^6r^6R^6+$$
$$1375648l^4r^8R^6+757872l^2r^{10}R^6-855360r^{12}R^6+29952l^{10}rR^7-41088l^8r^3R^7-1604352l^6r^5R^7+$$
$$2881024l^4r^7R^7+1421312l^2r^9R^7-2529152r^{11}R^7+3649l^{10}R^8-139485l^8r^2R^8-1066910l^6r^4R^8+$$
$$4275614l^4r^6R^8+1671901l^2r^8R^8-5777985r^{10}R^8-72980l^8rR^9-250000l^6r^3R^9+$$
$$4392712l^4r^5R^9+765808l^2r^7R^9-10196244r^9R^9-5640l^8R^{10}+144388l^6r^2R^{10}+2941368l^4r^4R^{10}-$$
$$1105468l^2r^6R^{10}-13778600r^8R^{10}+90240l^6rR^{11}+1090016l^4r^3R^{11}-2496864l^2r^5R^{11}-$$
$$13992704r^7R^{11}+3600l^6R^{12}+100080l^4r^2R^{12}-2280112l^2r^4R^{12}-10327568r^6R^{12}-43200l^4rR^{13}-$$
$$1079040l^2r^3R^{13}-5223616r^5R^{13}-216000l^2r^2R^{14}-1616640r^4R^{14}-230400r^3R^{15}\Big)\Big/$$
$$\Big(\big(l^4-6l^2r^2+r^4-8l^2rR+8r^3R-7l^2R^2+23r^2R^2+28rR^3+12R^4\big)^2$$
$$\big(l^4+2l^2r^2+r^4-8l^2rR+8r^3R-12l^2R^2+28r^2R^2+48rR^3+27R^4\big)^2\Big)\}$$

$$\{X94,\ \text{ISOGONAL CONJUGATE OF } X(50),\ X98,\ \text{TarryPoint},$$
$$\Big(4R^2\big(2l^2-2r^2-8rR-9R^2\big)^2\big(l^4-6l^2r^2+r^4-8l^2rR+8r^3R-3l^2R^2+19r^2R^2+12rR^3\big)^2\Big)\Big/$$
$$\Big(\big(l^4-14l^2r^2+r^4-8l^2rR+8r^3R+16r^2R^2\big)$$
$$\big(l^4+2l^2r^2+r^4-8l^2rR+8r^3R-12l^2R^2+28r^2R^2+48rR^3+27R^4\big)^2\Big)\}$$

$$\{X94,\ \text{ISOGONAL CONJUGATE OF } X(50),\ X99,\ \text{STEINER POINT},$$
$$-\Big(\Big(4R^2\big(24l^{10}r^2-160l^8r^4+656l^6r^6-160l^4r^8+24l^2r^{10}-384l^8r^3R+1664l^6r^5R-1664l^4r^7R+$$
$$384l^2r^9R-9l^{10}R^2-171l^8r^2R^2+2142l^6r^4R^2-5470l^4r^6R^2+2475l^2r^8R^2+9r^{10}R^2+$$
$$180l^8rR^3+1872l^6r^3R^3-7368l^4r^5R^3+8016l^2r^7R^3+180r^9R^3+54l^8R^4+72l^6r^2R^4-$$
$$6588l^4r^4R^4+13704l^2r^6R^4+1494r^8R^4-864l^6rR^5-5472l^4r^3R^5+13536l^2r^5R^5+6624r^7R^5-$$
$$81l^6R^6-1377l^4r^2R^6+12321l^2r^4R^6+16785r^6R^6+972l^4rR^7+11448l^2r^3R^7+24012r^5R^7+$$
$$4860l^2r^2R^8+17712r^4R^8+5184r^3R^9\big)\Big)\Big/\Big(\big(l^4-14l^2r^2+r^4-8l^2rR+8r^3R+16r^2R^2\big)$$
$$\big(l^4+2l^2r^2+r^4-8l^2rR+8r^3R-12l^2R^2+28r^2R^2+48rR^3+27R^4\big)^2\Big)\Big)\}$$

{X94, ISOGONAL CONJUGATE OF X(50), X100, ANTICOMPLEMENT OF FEUERBACH POINT,
$$\left(4 R \left(l^8 r^2+4 l^6 r^4+6 l^4 r^6+4 l^2 r^8+r^{10}+3 l^8 r R-40 l^6 r^3 R+62 l^4 r^5 R+23 r^9 R-70 l^6 r^2 R^2+278 l^4 r^4 R^2-258 l^2 r^6 R^2+226 r^8 R^2-39 l^6 r R^3+717 l^4 r^3 R^3-1457 l^2 r^5 R^3+1243 r^7 R^3-9 l^6 R^4+807 l^4 r^2 R^4-3735 l^2 r^4 R^4+4217 r^6 R^4+369 l^4 r R^5-5250 l^2 r^3 R^5+9181 r^5 R^5+54 l^4 R^6-3906 l^2 r^2 R^6+12924 r^4 R^6-1269 l^2 r R^7+11457 r^3 R^7-81 l^2 R^8+5832 r^2 R^8+1296 r R^9\right)\right) \Big/ \left((2 r-R) \left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-12 l^2 R^2+28 r^2 R^2+48 r R^3+27 R^4\right)^2\right)\}$$

{X95, CEVAPOINT OF CENTROID AND CIRCUMCENTER, X96, ISOGONAL CONJUGATE OF X(52),
$$\left(4 R^2 \left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-6 l^2 R^2+22 r^2 R^2+24 r R^3+8 R^4\right)^2 \left(3 l^8-20 l^6 r^2+210 l^4 r^4-20 l^2 r^6+3 r^8-48 l^6 r R+208 l^4 r^3 R-208 l^2 r^5 R+48 r^7 R-4 l^6 R^2+156 l^4 r^2 R^2-572 l^2 r^4 R^2+292 r^6 R^2+48 l^4 r R^3-288 l^2 r^3 R^3+816 r^5 R^3+4 l^4 R^4-248 l^2 r^2 R^4+964 r^4 R^4-32 l^2 r R^5+288 r^3 R^5+64 r^2 R^6\right)\right) \Big/ \left(\left(l^4+18 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-4 l^2 R^2+20 r^2 R^2+16 r R^3\right)^2 \left(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2-4 R^4\right)^2\right)\}$$

{X95, CEVAPOINT OF CENTROID AND CIRCUMCENTER, X97, ISOGONAL CONJUGATE OF X(53),
$$\left(\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-6 l^2 R^2+22 r^2 R^2+24 r R^3+8 R^4\right)^2 \left(l^{10}+11 l^8 r^2-118 l^6 r^4+118 l^4 r^6-11 l^2 r^8-r^{10}-20 l^8 r R-112 l^6 r^3 R+584 l^4 r^5 R-112 l^2 r^7 R-20 r^9 R-8 l^8 R^2-28 l^6 r^2 R^2+1016 l^4 r^4 R^2-476 l^2 r^6 R^2-168 r^8 R^2+128 l^6 r R^3+736 l^4 r^3 R^3-1120 l^2 r^5 R^3-768 r^7 R^3+16 l^6 R^4+240 l^4 r^2 R^4-1712 l^2 r^4 R^4-2064 r^6 R^4-192 l^4 r R^5-1792 l^2 r^3 R^5-3264 r^5 R^5-960 l^2 r^2 R^6-2816 r^4 R^6-1024 r^3 R^7\right)\right) \Big/ \left(\left(l^4+18 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-4 l^2 R^2+20 r^2 R^2+16 r R^3\right)^2 \left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-7 l^2 R^2+23 r^2 R^2+28 r R^3+12 R^4\right)^2\right)\}$$

{X95, CEVAPOINT OF CENTROID AND CIRCUMCENTER, X98, TarryPoint,
$$\left(4 R^2 \left(l^{12}-26 l^{10} r^2-113 l^8 r^4-172 l^6 r^6-113 l^4 r^8-26 l^2 r^{10}+r^{12}-24 l^{10} r R+440 l^8 r^3 R+464 l^6 r^5 R-464 l^4 r^7 R-440 l^2 r^9 R+24 r^{11} R-8 l^{10} R^2+504 l^8 r^2 R^2-3120 l^6 r^4 R^2+2192 l^4 r^6 R^2-3144 l^2 r^8 R^2+248 r^{10} R^2+160 l^8 r R^3-4608 l^6 r^3 R^3+13248 l^4 r^5 R^3-12288 l^2 r^7 R^3+1440 r^9 R^3+16 l^8 R^4-1920 l^6 r^2 R^4+21984 l^4 r^4 R^4-28032 l^2 r^6 R^4+5136 r^8 R^4-256 l^6 r R^5+10496 l^4 r^3 R^5-36096 l^2 r^5 R^5+11520 r^7 R^5+1536 l^4 r^2 R^6-22528 l^2 r^4 R^6+15872 r^6 R^6-4096 l^2 r^3 R^7+12288 r^5 R^7+4096 r^4 R^8\right)\right) \Big/ \left(\left(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right) \left(l^4+18 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-4 l^2 R^2+20 r^2 R^2+16 r R^3\right)^2\right)\}$$

{X95, CEVAPOINT OF CENTROID AND CIRCUMCENTER, X99, STEINER POINT,
$$\left(1024 l^4 r^4 R^2 \left(2 l^4-12 l^2 r^2+2 r^4-16 l^2 r R+16 r^3 R-8 l^2 R^2+40 r^2 R^2+32 r R^3+9 R^4\right)\right) \Big/ \left(\left(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2\right) \left(l^4+18 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-4 l^2 R^2+20 r^2 R^2+16 r R^3\right)^2\right)\}$$

{X95, CEVAPOINT OF CENTROID AND CIRCUMCENTER, X100, ANTICOMPLEMENT OF FEUERBACH POINT,
$$\left(4 r^2 R \left(l^8+20 l^6 r^2+38 l^4 r^4+20 l^2 r^6+r^8-44 l^6 r R+124 l^4 r^3 R+188 l^2 r^5 R+20 r^7 R-12 l^6 R^2-176 l^4 r^2 R^2+580 l^2 r^4 R^2+168 r^6 R^2+416 l^4 r R^3+416 l^2 r^3 R^3+768 r^5 R^3+48 l^4 R^4-896 l^2 r^2 R^4+2064 r^4 R^4-1216 l^2 r R^5+3264 r^3 R^5-64 l^2 R^6+2816 r^2 R^6+1024 r R^7\right)\right) \Big/ \left((2 r-R) \left(l^4+18 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-4 l^2 R^2+20 r^2 R^2+16 r R^3\right)^2\right)\}$$

{X96, ISOGONAL CONJUGATE OF X(52), X97, ISOGONAL CONJUGATE OF X(53),
$$-\left(\left(\left(l^4+2 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-6 l^2 R^2+22 r^2 R^2+24 r R^3+8 R^4\right)^2 \left(l^{10}-21 l^8 r^2+106 l^6 r^4-106 l^4 r^6+21 l^2 r^8-r^{10}-20 l^8 r R+272 l^6 r^3 R-696 l^4 r^5 R+272 l^2 r^7 R-20 r^9 R-14 l^8 R^2+396 l^6 r^2 R^2-1964 l^4 r^4 R^2+1484 l^2 r^6 R^2-174 r^8 R^2+224 l^6 r R^3-2752 l^4 r^3 R^3+4416 l^2 r^5 R^3-864 r^7 R^3+76 l^6 R^4-2276 l^4 r^2 R^4+7780 l^2 r^4 R^4-2700 r^6 R^4-912 l^4 r R^5+8224 l^2 r^3 R^5-5520 r^5 R^5-212 l^4 R^6+5256 l^2 r^2 R^6-7444 r^4 R^6+1696 l^2 r R^7-6560 r^3 R^7+272 l^2 R^8-3664 r^2 R^8-1088 r R^9-144 R^{10}\right)\right) \Big/ \left(\left(l^4-14 l^2 r^2+r^4-8 l^2 r R+8 r^3 R+16 r^2 R^2-4 R^4\right)^2 \left(l^4-6 l^2 r^2+r^4-8 l^2 r R+8 r^3 R-7 l^2 R^2+23 r^2 R^2+28 r R^3+12 R^4\right)^2\right)\right)\}$$

$$\{X96,\ \text{ISOGONAL CONJUGATE OF } X(52),\ X98,\ \text{TarryPoint},$$
$$-\Big(\big(16 R^4 \big(l^{10} - 21 l^8 r^2 + 106 l^6 r^4 - 106 l^4 r^6 + 21 l^2 r^8 - r^{10} - 20 l^8 r R + 272 l^6 r^3 R - 696 l^4 r^5 R + 272 l^2 r^7 R - 20 r^9 R - 8 l^8 R^2 + 292 l^6 r^2 R^2 - 1672 l^4 r^4 R^2 + 1380 l^2 r^6 R^2 - 168 r^8 R^2 + 128 l^6 r R^3 - 1824 l^4 r^3 R^3 + 3488 l^2 r^5 R^3 - 768 r^7 R^3 + 20 l^6 R^4 - 988 l^4 r^2 R^4 + 4636 l^2 r^4 R^4 - 2068 r^6 R^4 - 240 l^4 r R^5 + 3168 l^2 r^3 R^5 - 3312 r^5 R^5 - 16 l^4 R^6 + 1040 l^2 r^2 R^6 - 3024 r^4 R^6 + 128 l^2 r R^7 - 1408 r^3 R^7 - 256 r^2 R^8\big)\big) \Big/ \big(\big(l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\big) \big(l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2 - 4 R^4\big)^2\big)\Big)\}$$

$$\{X96,\ \text{ISOGONAL CONJUGATE OF } X(52),\ X99,\ \text{STEINER POINT},$$
$$\Big(4 R^2 \big(3 l^{12} - 78 l^{10} r^2 + 685 l^8 r^4 - 2564 l^6 r^6 + 685 l^4 r^8 - 78 l^2 r^{10} + 3 r^{12} - 72 l^{10} r R + 1320 l^8 r^3 R - 6800 l^6 r^5 R + 6800 l^4 r^7 R - 1320 l^2 r^9 R + 72 r^{11} R - 16 l^{10} R^2 + 992 l^8 r^2 R^2 - 9376 l^6 r^4 R^2 + 22976 l^4 r^6 R^2 - 8912 l^2 r^8 R^2 + 736 r^{10} R^2 + 320 l^8 r R^3 - 7424 l^6 r^3 R^3 + 33408 l^4 r^5 R^3 - 30464 l^2 r^7 R^3 + 4160 r^9 R^3 + 32 l^8 R^4 - 2992 l^6 r^2 R^4 + 27744 l^4 r^4 R^4 - 55728 l^2 r^6 R^4 + 14112 r^8 R^4 - 512 l^6 r R^5 + 14208 l^4 r^3 R^5 - 55168 l^2 r^5 R^5 + 29184 r^7 R^5 - 32 l^6 R^6 + 3872 l^4 r^2 R^6 - 32288 l^2 r^4 R^6 + 35872 r^6 R^6 + 384 l^4 r R^7 - 11776 l^2 r^3 R^7 + 24960 r^5 R^7 + 16 l^4 R^8 - 2336 l^2 r^2 R^8 + 9744 r^4 R^8 - 128 l^2 r R^9 + 2176 r^3 R^9 + 256 r^2 R^{10}\big)\Big) \Big/ \big(\big(l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\big) \big(l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2 - 4 R^4\big)^2\big)\}$$

$$\{X96,\ \text{ISOGONAL CONJUGATE OF } X(52),\ X100,\ \text{ANTICOMPLEMENT OF FEUERBACH POINT},$$
$$-\frac{1}{(2 r - R) \big(l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2 - 4 R^4\big)^2}$$
$$4 R \big(l^8 r^2 - 12 l^6 r^4 - 26 l^4 r^6 - 12 l^2 r^8 + r^{10} - 4 l^8 r R + 36 l^6 r^3 R - 92 l^4 r^5 R - 116 l^2 r^7 R + 16 r^9 R + 3 l^8 R^2 + 4 l^6 r^2 R^2 + 38 l^4 r^4 R^2 - 436 l^2 r^6 R^2 + 103 r^8 R^2 - 28 l^6 r R^3 + 156 l^4 r^3 R^3 - 884 l^2 r^5 R^3 + 340 r^7 R^3 - 16 l^6 R^4 + 208 l^4 r^2 R^4 - 1120 l^2 r^4 R^4 + 608 r^6 R^4 + 136 l^4 r R^5 - 768 l^2 r^3 R^5 + 568 r^5 R^5 + 32 l^4 R^6 - 352 l^2 r^2 R^6 + 208 r^4 R^6 - 144 l^2 r R^7 - 80 r^3 R^7 - 32 l^2 R^8 - 48 r^2 R^8 + 32 r R^9 + 16 R^{10}\big)\}$$

$$\{X97,\ \text{ISOGONAL CONJUGATE OF } X(53),\ X98,\ \text{TarryPoint},$$
$$-\Big(\big(l^{14} - 3 l^{12} r^2 - 15 l^{10} r^4 - 11 l^8 r^6 + 11 l^6 r^8 + 15 l^4 r^{10} + 3 l^2 r^{12} - r^{14} - 28 l^{12} r R + 88 l^{10} r^3 R + 92 l^8 r^5 R - 48 l^6 r^7 R + 92 l^4 r^9 R + 88 l^2 r^{11} R - 28 r^{13} R - 18 l^{12} R^2 + 360 l^{10} r^2 R^2 - 910 l^8 r^4 R^2 + 848 l^6 r^6 R^2 - 542 l^4 r^8 R^2 + 1064 l^2 r^{10} R^2 - 354 r^{12} R^2 + 432 l^{10} r R^3 - 3056 l^8 r^3 R^3 + 6176 l^6 r^5 R^3 - 7072 l^4 r^7 R^3 + 7216 l^2 r^9 R^3 - 2672 r^{11} R^3 + 128 l^{10} R^4 - 4352 l^8 r^2 R^4 + 18144 l^6 r^4 R^4 - 30496 l^4 r^6 R^4 + 31008 l^2 r^8 R^4 - 13408 r^{10} R^4 - 2560 l^8 r R^5 + 25984 l^6 r^3 R^5 - 71936 l^4 r^5 R^5 + 89472 l^2 r^7 R^5 - 47104 r^9 R^5 - 452 l^8 R^6 + 20368 l^6 r^2 R^6 - 102552 l^4 r^4 R^6 + 177552 l^2 r^6 R^6 - 118724 r^8 R^6 + 7232 l^6 r R^7 - 88256 l^4 r^3 R^7 + 241856 l^2 r^5 R^7 - 216128 r^7 R^7 + 800 l^6 R^8 - 43488 l^4 r^2 R^8 + 220000 l^2 r^4 R^8 - 281760 r^6 R^8 - 9600 l^4 r R^9 + 125696 l^2 r^3 R^9 - 256384 r^5 R^9 - 576 l^4 R^{10} + 39552 l^2 r^2 R^{10} - 154688 r^4 R^{10} + 4608 l^2 r R^{11} - 55808 r^3 R^{11} - 9216 r^2 R^{12}\big) \Big/ \big(\big(l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\big) \big(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 7 l^2 R^2 + 23 r^2 R^2 + 28 r R^3 + 12 R^4\big)^2\big)\Big)\}$$

$$\{X97,\ \text{ISOGONAL CONJUGATE OF } X(53),\ X99,\ \text{STEINER POINT},$$
$$\Big(l^{14} - 3 l^{12} r^2 - 15 l^{10} r^4 - 11 l^8 r^6 + 11 l^6 r^8 + 15 l^4 r^{10} + 3 l^2 r^{12} - r^{14} - 28 l^{12} r R + 88 l^{10} r^3 R + 92 l^8 r^5 R - 48 l^6 r^7 R + 92 l^4 r^9 R + 88 l^2 r^{11} R - 28 r^{13} R - 12 l^{12} R^2 + 220 l^{10} r^2 R^2 + 12 l^8 r^4 R^2 - 1112 l^6 r^6 R^2 + 380 l^4 r^8 R^2 + 924 l^2 r^{10} R^2 - 348 r^{12} R^2 + 288 l^{10} r R^3 - 672 l^8 r^3 R^3 - 3584 l^6 r^5 R^3 + 2688 l^4 r^7 R^3 + 4832 l^2 r^9 R^3 - 2528 r^{11} R^3 + 52 l^{10} R^4 - 1380 l^8 r^2 R^4 - 4696 l^6 r^4 R^4 + 11864 l^4 r^6 R^4 + 13732 l^2 r^8 R^4 - 11892 r^{10} R^4 - 1040 l^8 r R^5 - 1600 l^6 r^3 R^5 + 26016 l^4 r^5 R^5 + 19904 l^2 r^7 R^5 - 37904 r^9 R^5 - 96 l^8 R^6 + 2064 l^6 r^2 R^6 + 29216 l^4 r^4 R^6 + 6928 l^2 r^6 R^6 - 83168 r^8 R^6 + 1536 l^6 r R^7 + 15232 l^4 r^3 R^7 - 20864 l^2 r^5 R^7 - 124928 r^7 R^7 + 64 l^6 R^8 + 1728 l^4 r^2 R^8 - 32192 l^2 r^4 R^8 - 124992 r^6 R^8 - 768 l^4 r R^9 - 18432 l^2 r^3 R^9 - 78592 r^5 R^9 - 3840 l^2 r^2 R^{10} - 27648 r^4 R^{10} - 4096 r^3 R^{11}\Big) \Big/ \big(\big(l^4 - 14 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R + 16 r^2 R^2\big) \big(l^4 - 6 l^2 r^2 + r^4 - 8 l^2 r R + 8 r^3 R - 7 l^2 R^2 + 23 r^2 R^2 + 28 r R^3 + 12 R^4\big)^2\big)\}$$

$$\{X97, \text{ISOGONAL CONJUGATE OF } X(53), X100, \text{ANTICOMPLEMENT OF FEUERBACH POINT},$$
$$\Big(R\,\big(-l^{10}+5\,l^8\,r^2+6\,l^6\,r^4-6\,l^4\,r^6-5\,l^2\,r^8+r^{10}+30\,l^8\,r\,R-160\,l^6\,r^3\,R+188\,l^4\,r^5\,R-$$
$$112\,l^2\,r^7\,R+22\,r^9\,R+12\,l^8\,R^2-312\,l^6\,r^2\,R^2+988\,l^4\,r^4\,R^2-848\,l^2\,r^6\,R^2+208\,r^8\,R^2-$$
$$316\,l^6\,r\,R^3+2220\,l^4\,r^3\,R^3-3204\,l^2\,r^5\,R^3+1108\,r^7\,R^3-52\,l^6\,R^4+2296\,l^4\,r^2\,R^4-$$
$$6804\,l^2\,r^4\,R^4+3664\,r^6\,R^4+1184\,l^4\,r\,R^5-8352\,l^2\,r^3\,R^5+7808\,r^5\,R^5+96\,l^4\,R^6-$$
$$5728\,l^2\,r^2\,R^6+10\,752\,r^4\,R^6-1856\,l^2\,r\,R^7+9280\,r^3\,R^7-64\,l^2\,R^8+4608\,r^2\,R^8+1024\,r\,R^9\big)\Big)\Big/$$
$$\Big((2\,r-R)\,\big(l^4-6\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R-7\,l^2\,R^2+23\,r^2\,R^2+28\,r\,R^3+12\,R^4\big)^2\Big)\}$$

$$\{X98, \text{TarryPoint}, X99, \text{STEINER POINT}, 4\,R^2\}$$

$$\Big\{X98, \text{TarryPoint}, X100, \text{ANTICOMPLEMENT OF FEUERBACH POINT},$$
$$-\frac{4\,R\,\big(l^2\,r+r^3-l^2\,R+5\,r^2\,R+4\,r\,R^2\big)^2}{(2\,r-R)\,\big(l^4-14\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R+16\,r^2\,R^2\big)}\Big\}$$

$$\Big\{X99, \text{STEINER POINT}, X100, \text{ANTICOMPLEMENT OF FEUERBACH POINT},$$
$$\frac{4\,r^2\,R\,\big(l^4+2\,l^2\,r^2+r^4-20\,l^2\,r\,R+12\,r^3\,R-4\,l^2\,R^2+48\,r^2\,R^2+64\,r\,R^3\big)}{(2\,r-R)\,\big(l^4-14\,l^2\,r^2+r^4-8\,l^2\,r\,R+8\,r^3\,R+16\,r^2\,R^2\big)}\Big\}$$