Chamber decomp stored in file "`/users/jmount/tab/chbase/c_3_3`":
Head comment:
"`[fmt=1 symetrized chamber decomposition (n=3, m=3) start Sat May 21 15:06:33 1994 (0.50369`
Tail comment:
"`[finished at Sat May 21 15:08:47 1994 (135.037 sec elapsed)]` ".
Rows= 3, columns= 3, chambers= 13.

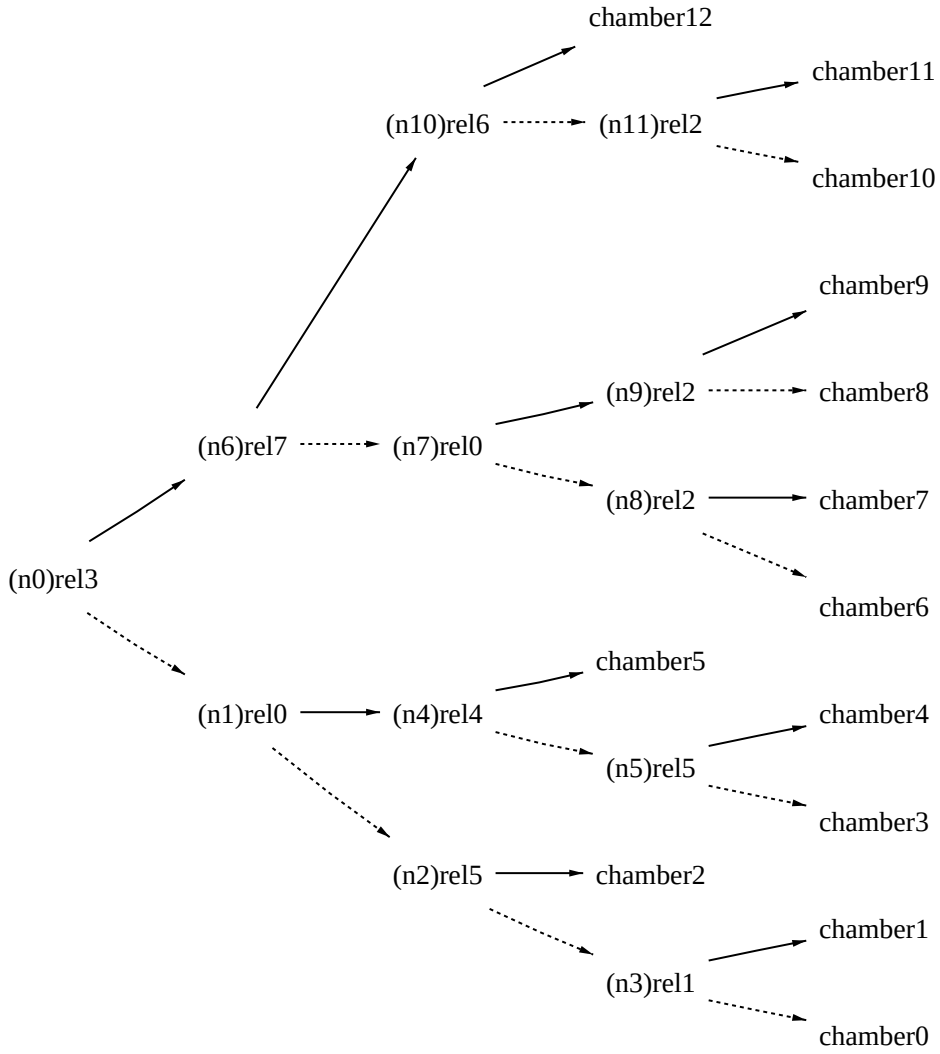
Global relations:

$$\begin{array}{lrrrrrrcl}
\text{grel0}: & [& 1 & 0 & 0 & -1 & 0 &]\cdot x & \leq & 0 \\
\text{grel1}: & [& -1 & -1 & -1 & 1 & 2 &]\cdot x & \leq & 0 \\
\text{grel2}: & [& 0 & 0 & 0 & 1 & -1 &]\cdot x & \leq & 0 \\
\text{grel3}: & [& 0 & 1 & -1 & 0 & 0 &]\cdot x & \leq & 0 \\
\text{grel4}: & [& 1 & -1 & 0 & 0 & 0 &]\cdot x & \leq & 0
\end{array}$$

Decision tree inequalities:

$$\begin{array}{lrrrrrrcl}
\text{rel0}: & [& 0 & 0 & 1 & -1 & -1 &]\cdot x & \leq & 0 \\
\text{rel1}: & [& 0 & 1 & 0 & -1 & -1 &]\cdot x & \leq & 0 \\
\text{rel2}: & [& 0 & 1 & 0 & -1 & 0 &]\cdot x & \leq & 0 \\
\text{rel3}: & [& 0 & 1 & 0 & 0 & -1 &]\cdot x & \leq & 0 \\
\text{rel4}: & [& 1 & 0 & 1 & -1 & -1 &]\cdot x & \leq & 0 \\
\text{rel5}: & [& 1 & 1 & 0 & -1 & -1 &]\cdot x & \leq & 0 \\
\text{rel6}: & [& 1 & 1 & 0 & -1 & 0 &]\cdot x & \leq & 0 \\
\text{rel7}: & [& 1 & 1 & 0 & 0 & -1 &]\cdot x & \leq & 0
\end{array}$$

Decision tree (move to dashed child if inquality violated, move to solid child otherwise):



Chamber polynomials:

chamber 0:

$$\tfrac{1}{24}x_1^4 - \tfrac{1}{6}x_1^3x_4 - \tfrac{1}{6}x_1^3x_5 + \tfrac{1}{2}x_1^2x_4x_5 - \tfrac{1}{4}x_1^3 + \tfrac{3}{2}x_1x_4x_5 - \tfrac{13}{24}x_1^2 + \tfrac{7}{6}x_1x_4 + \tfrac{7}{6}x_1x_5 + x_4x_5 + \tfrac{3}{4}x_1 + x_4 + x_5 + 1$$

chamber 1:

$$\tfrac{1}{24}x_1^4 - \tfrac{1}{6}x_1^3x_4 - \tfrac{1}{6}x_1^3x_5 + \tfrac{1}{2}x_1^2x_4x_5 - \tfrac{1}{24}x_2^4 + \tfrac{1}{6}x_2^3x_4 + \tfrac{1}{6}x_2^3x_5 - \tfrac{1}{4}x_2^2x_4^2 - \tfrac{1}{2}x_2^2x_4x_5 - \tfrac{1}{4}x_2^2x_5^2 + \tfrac{1}{6}x_2x_4^3 + \tfrac{1}{2}x_2x_4^2x_5 + \tfrac{1}{2}x_2x_4x_5^2 + \tfrac{1}{6}x_2x_5^3 - \tfrac{1}{24}x_4^4 - \tfrac{1}{6}x_4^3x_5 - \tfrac{1}{4}x_4^2x_5^2 - \tfrac{1}{6}x_4x_5^3 - \tfrac{1}{24}x_5^4 - \tfrac{1}{4}x_1^3 + \tfrac{3}{2}x_1x_4x_5 + \tfrac{1}{4}x_2^3 - \tfrac{3}{4}x_2^2x_4$$

$$-\tfrac{3}{4}x_2^2x_5 +\tfrac{3}{4}x_2x_4^2 +\tfrac{3}{2}x_2x_4x_5 +\tfrac{3}{4}x_2x_5^2 -\tfrac{1}{4}x_4^3 -\tfrac{3}{4}x_4^2x_5 -\tfrac{3}{4}x_4x_5^2 -\tfrac{1}{4}x_5^3$$
$$-\tfrac{13}{24}x_1^2 +\tfrac{7}{6}x_1x_4 +\tfrac{7}{6}x_1x_5 -\tfrac{11}{24}x_2^2 +\tfrac{11}{12}x_2x_4 +\tfrac{11}{12}x_2x_5 -\tfrac{11}{24}x_4^2 +\tfrac{1}{12}x_4x_5$$
$$-\tfrac{11}{24}x_5^2 +\tfrac{3}{4}x_1 +\tfrac{1}{4}x_2 +\tfrac{3}{4}x_4 +\tfrac{3}{4}x_5 +1$$

chamber 2:

$$-\tfrac{1}{12}x_1^4 -\tfrac{1}{3}x_1^3x_2 +\tfrac{1}{6}x_1^3x_4 +\tfrac{1}{6}x_1^3x_5 -\tfrac{1}{4}x_1^2x_2^2 +\tfrac{1}{2}x_1^2x_2x_4 +\tfrac{1}{2}x_1^2x_2x_5$$
$$-\tfrac{1}{4}x_1^2x_4^2 -\tfrac{1}{4}x_1^2x_5^2 -\tfrac{1}{2}x_1^3 -\tfrac{3}{4}x_1^2x_2 +\tfrac{3}{4}x_1^2x_4 +\tfrac{3}{4}x_1^2x_5 -\tfrac{3}{4}x_1x_2^2 +\tfrac{3}{2}x_1x_2x_4$$
$$+\tfrac{3}{2}x_1x_2x_5 -\tfrac{3}{4}x_1x_4^2 -\tfrac{3}{4}x_1x_5^2 -\tfrac{5}{12}x_1^2 +\tfrac{1}{12}x_1x_2 +\tfrac{13}{12}x_1x_4 +\tfrac{13}{12}x_1x_5 -\tfrac{1}{2}x_2^2$$
$$+x_2x_4 +x_2x_5 -\tfrac{1}{2}x_4^2 -\tfrac{1}{2}x_5^2 +x_1 +\tfrac{1}{2}x_2 +\tfrac{1}{2}x_4 +\tfrac{1}{2}x_5 +1$$

chamber 3:

$$\tfrac{1}{24}x_1^4 -\tfrac{1}{6}x_1^3x_4 -\tfrac{1}{6}x_1^3x_5 +\tfrac{1}{2}x_1^2x_4x_5 -\tfrac{1}{24}x_2^4 +\tfrac{1}{6}x_2^3x_4 +\tfrac{1}{6}x_2^3x_5 -\tfrac{1}{4}x_2^2x_4^2$$
$$-\tfrac{1}{2}x_2^2x_4x_5 -\tfrac{1}{4}x_2^2x_5^2 +\tfrac{1}{6}x_2x_4^3 +\tfrac{1}{2}x_2x_4^2x_5 +\tfrac{1}{2}x_2x_4x_5^2 +\tfrac{1}{6}x_2x_5^3 -\tfrac{1}{24}x_3^4$$
$$+\tfrac{1}{6}x_3^3x_4 +\tfrac{1}{6}x_3^3x_5 -\tfrac{1}{4}x_3^2x_4^2 -\tfrac{1}{2}x_3^2x_4x_5 -\tfrac{1}{4}x_3^2x_5^2 +\tfrac{1}{6}x_3x_4^3 +\tfrac{1}{2}x_3x_4^2x_5 +\tfrac{1}{2}x_3x_4x_5^2$$
$$+\tfrac{1}{6}x_3x_5^3 -\tfrac{1}{12}x_4^4 -\tfrac{1}{3}x_4^3x_5 -\tfrac{1}{2}x_4^2x_5^2 -\tfrac{1}{3}x_4x_5^3 -\tfrac{1}{12}x_5^4 -\tfrac{1}{4}x_1^3 +\tfrac{3}{2}x_1x_4x_5$$
$$+\tfrac{1}{4}x_2^3 -\tfrac{3}{4}x_2^2x_4 -\tfrac{3}{4}x_2^2x_5 +\tfrac{3}{4}x_2x_4^2 +\tfrac{3}{2}x_2x_4x_5 +\tfrac{3}{4}x_2x_5^2 +\tfrac{1}{4}x_3^3 -\tfrac{3}{4}x_3^2x_4$$
$$-\tfrac{3}{4}x_3^2x_5 +\tfrac{3}{4}x_3x_4^2 +\tfrac{3}{2}x_3x_4x_5 +\tfrac{3}{4}x_3x_5^2 -\tfrac{1}{2}x_4^3 -\tfrac{3}{2}x_4^2x_5 -\tfrac{3}{2}x_4x_5^2 -\tfrac{1}{2}x_5^3$$
$$-\tfrac{13}{24}x_1^2 +\tfrac{7}{6}x_1x_4 +\tfrac{7}{6}x_1x_5 -\tfrac{11}{24}x_2^2 +\tfrac{11}{12}x_2x_4 +\tfrac{11}{12}x_2x_5 -\tfrac{11}{24}x_3^2 +\tfrac{11}{12}x_3x_4$$
$$+\tfrac{11}{12}x_3x_5 -\tfrac{11}{12}x_4^2 -\tfrac{5}{6}x_4x_5 -\tfrac{11}{12}x_5^2 +\tfrac{3}{4}x_1 +\tfrac{1}{4}x_2 +\tfrac{1}{4}x_3 +\tfrac{1}{2}x_4 +\tfrac{1}{2}x_5 +1$$

chamber 4:

$$-\tfrac{1}{12}x_1^4 -\tfrac{1}{3}x_1^3x_2 +\tfrac{1}{6}x_1^3x_4 +\tfrac{1}{6}x_1^3x_5 -\tfrac{1}{4}x_1^2x_2^2 +\tfrac{1}{2}x_1^2x_2x_4 +\tfrac{1}{2}x_1^2x_2x_5$$
$$-\tfrac{1}{4}x_1^2x_4^2 -\tfrac{1}{4}x_1^2x_5^2 -\tfrac{1}{24}x_3^4 +\tfrac{1}{6}x_3^3x_4 +\tfrac{1}{6}x_3^3x_5 -\tfrac{1}{4}x_3^2x_4^2 -\tfrac{1}{2}x_3^2x_4x_5 -\tfrac{1}{4}x_3^2x_5^2$$
$$+\tfrac{1}{6}x_3x_4^3 +\tfrac{1}{2}x_3x_4^2x_5 +\tfrac{1}{2}x_3x_4x_5^2 +\tfrac{1}{6}x_3x_5^3 -\tfrac{1}{24}x_4^4 -\tfrac{1}{6}x_4^3x_5 -\tfrac{1}{4}x_4^2x_5^2 -\tfrac{1}{6}x_4x_5^3$$
$$-\tfrac{1}{24}x_5^4 -\tfrac{1}{2}x_1^3 -\tfrac{3}{4}x_1^2x_2 +\tfrac{3}{4}x_1^2x_4 +\tfrac{3}{4}x_1^2x_5 -\tfrac{3}{4}x_1x_2^2 +\tfrac{3}{2}x_1x_2x_4 +\tfrac{3}{2}x_1x_2x_5$$
$$-\tfrac{3}{4}x_1x_4^2 -\tfrac{3}{4}x_1x_5^2 +\tfrac{1}{4}x_3^3 -\tfrac{3}{4}x_3^2x_4 -\tfrac{3}{4}x_3^2x_5 +\tfrac{3}{4}x_3x_4^2 +\tfrac{3}{2}x_3x_4x_5 +\tfrac{3}{4}x_3x_5^2$$
$$-\tfrac{1}{4}x_4^3 -\tfrac{3}{4}x_4^2x_5 -\tfrac{3}{4}x_4x_5^2 -\tfrac{1}{4}x_5^3 -\tfrac{5}{12}x_1^2 +\tfrac{1}{12}x_1x_2 +\tfrac{13}{12}x_1x_4 +\tfrac{13}{12}x_1x_5$$
$$-\tfrac{1}{2}x_2^2 +x_2x_4 +x_2x_5 -\tfrac{11}{24}x_3^2 +\tfrac{11}{12}x_3x_4 +\tfrac{11}{12}x_3x_5 -\tfrac{23}{24}x_4^2 -\tfrac{11}{12}x_4x_5 -\tfrac{23}{24}x_5^2$$
$$+x_1 +\tfrac{1}{2}x_2 +\tfrac{1}{4}x_3 +\tfrac{1}{4}x_4 +\tfrac{1}{4}x_5 +1$$

chamber 5:

$$-\tfrac{5}{24}x_1^4 -\tfrac{1}{3}x_1^3x_2 -\tfrac{1}{3}x_1^3x_3 +\tfrac{1}{2}x_1^3x_4 +\tfrac{1}{2}x_1^3x_5 -\tfrac{1}{4}x_1^2x_2^2 +\tfrac{1}{2}x_1^2x_2x_4 +\tfrac{1}{2}x_1^2x_2x_5$$
$$-\tfrac{1}{4}x_1^2x_3^2 +\tfrac{1}{2}x_1^2x_3x_4 +\tfrac{1}{2}x_1^2x_3x_5 -\tfrac{1}{2}x_1^2x_4^2 -\tfrac{1}{2}x_1^2x_4x_5 -\tfrac{1}{2}x_1^2x_5^2 -\tfrac{3}{4}x_1^3 -\tfrac{3}{4}x_1^2x_2$$
$$-\tfrac{3}{4}x_1^2x_3 +\tfrac{3}{2}x_1^2x_4 +\tfrac{3}{2}x_1^2x_5 -\tfrac{3}{4}x_1x_2^2 +\tfrac{3}{2}x_1x_2x_4 +\tfrac{3}{2}x_1x_2x_5 -\tfrac{3}{4}x_1x_3^2 +\tfrac{3}{2}x_1x_3x_4$$
$$+\tfrac{3}{2}x_1x_3x_5 -\tfrac{3}{2}x_1x_4^2 -\tfrac{3}{2}x_1x_4x_5 -\tfrac{3}{2}x_1x_5^2 -\tfrac{7}{24}x_1^2 +\tfrac{1}{12}x_1x_2 +\tfrac{1}{12}x_1x_3$$
$$+x_1x_4 +x_1x_5 -\tfrac{1}{2}x_2^2 +x_2x_4 +x_2x_5 -\tfrac{1}{2}x_3^2 +x_3x_4 +x_3x_5 -x_4^2 -x_4x_5$$
$$-x_5^2 +\tfrac{5}{4}x_1 +\tfrac{1}{2}x_2 +\tfrac{1}{2}x_3 +1$$

chamber 6:

$$-\tfrac{1}{12}x_1^4 -\tfrac{1}{3}x_1^3x_2 +\tfrac{1}{6}x_1^3x_4 +\tfrac{1}{6}x_1^3x_5 -\tfrac{1}{4}x_1^2x_2^2 +\tfrac{1}{2}x_1^2x_2x_4 +\tfrac{1}{2}x_1^2x_2x_5$$
$$-\tfrac{1}{4}x_1^2x_4^2 -\tfrac{1}{4}x_1^2x_5^2 -\tfrac{1}{6}x_1x_2^3 +\tfrac{1}{2}x_1x_2^2x_5 -\tfrac{1}{2}x_1x_2x_5^2 +\tfrac{1}{6}x_1x_5^3 -\tfrac{1}{24}x_2^4 +\tfrac{1}{6}x_2^3x_5$$
$$-\tfrac{1}{4}x_2^2x_5^2 +\tfrac{1}{6}x_2x_5^3 -\tfrac{1}{24}x_5^4 -\tfrac{1}{2}x_1^3 -\tfrac{3}{4}x_1^2x_2 +\tfrac{3}{4}x_1^2x_4 +\tfrac{3}{4}x_1^2x_5 -\tfrac{3}{4}x_1x_2^2$$
$$+\tfrac{3}{2}x_1x_2x_4 +\tfrac{3}{2}x_1x_2x_5 -\tfrac{3}{4}x_1x_4^2 -\tfrac{3}{4}x_1x_5^2 -\tfrac{1}{4}x_2^3 +\tfrac{3}{4}x_2^2x_5 -\tfrac{3}{4}x_2x_5^2 +\tfrac{1}{4}x_5^3$$
$$-\tfrac{5}{12}x_1^2 +\tfrac{1}{4}x_1x_2 +\tfrac{13}{12}x_1x_4 +\tfrac{11}{12}x_1x_5 -\tfrac{11}{24}x_2^2 +x_2x_4 +\tfrac{11}{12}x_2x_5 -\tfrac{1}{2}x_4^2$$
$$-\tfrac{11}{24}x_5^2 +x_1 +\tfrac{3}{4}x_2 +\tfrac{1}{2}x_4 +\tfrac{1}{4}x_5 +1$$

chamber 7:

$$
\begin{aligned}
&-\tfrac{1}{12}x_1^4 \ -\tfrac{1}{3}x_1^3x_2 \ +\tfrac{1}{6}x_1^3x_4 \ +\tfrac{1}{6}x_1^3x_5 \ -\tfrac{1}{4}x_1^2x_2^2 \ +\tfrac{1}{2}x_1^2x_2x_4 \ +\tfrac{1}{2}x_1^2x_2x_5\\
&-\tfrac{1}{4}x_1^2x_4^2 \ -\tfrac{1}{4}x_1^2x_5^2 \ -\tfrac{1}{3}x_1x_2^3 \ +\tfrac{1}{2}x_1x_2^2x_4 \ +\tfrac{1}{2}x_1x_2^2x_5 \ -\tfrac{1}{2}x_1x_2x_4^2 \ -\tfrac{1}{2}x_1x_2x_5^2\\
&+\tfrac{1}{6}x_1x_4^3 \ +\tfrac{1}{6}x_1x_5^3 \ -\tfrac{1}{12}x_2^4 \ +\tfrac{1}{6}x_2^3x_4 \ +\tfrac{1}{6}x_2^3x_5 \ -\tfrac{1}{4}x_2^2x_4^2 \ -\tfrac{1}{4}x_2^2x_5^2 \ +\tfrac{1}{6}x_2x_4^3\\
&+\tfrac{1}{6}x_2x_5^3 \ -\tfrac{1}{24}x_4^4 \ -\tfrac{1}{24}x_5^4 \ -\tfrac{1}{2}x_1^3 \ -\tfrac{3}{4}x_1^2x_2 \ +\tfrac{3}{4}x_1^2x_4 \ +\tfrac{3}{4}x_1^2x_5 \ -\tfrac{3}{4}x_1x_2^2 \ +\tfrac{3}{2}x_1x_2x_4\\
&+\tfrac{3}{2}x_1x_2x_5 \ -\tfrac{3}{4}x_1x_4^2 \ -\tfrac{3}{4}x_1x_5^2 \ -\tfrac{1}{2}x_2^3 \ +\tfrac{3}{4}x_2^2x_4 \ +\tfrac{3}{4}x_2^2x_5 \ -\tfrac{3}{4}x_2x_4^2 \ -\tfrac{3}{4}x_2x_5^2\\
&+\tfrac{1}{4}x_4^3 \ +\tfrac{1}{4}x_5^3 \ -\tfrac{5}{12}x_1^2 \ +\tfrac{5}{12}x_1x_2 \ +\tfrac{11}{12}x_1x_4 \ +\tfrac{11}{12}x_1x_5 \ -\tfrac{5}{12}x_2^2 \ +\tfrac{11}{12}x_2x_4\\
&+\tfrac{11}{12}x_2x_5 \ -\tfrac{11}{24}x_4^2 \ -\tfrac{11}{24}x_5^2 \ +x_1 \ +x_2 \ +\tfrac{1}{4}x_4 \ +\tfrac{1}{4}x_5 \ +1
\end{aligned}
$$

chamber 8:

$$
\begin{aligned}
&-\tfrac{1}{12}x_1^4 \ -\tfrac{1}{3}x_1^3x_2 \ +\tfrac{1}{6}x_1^3x_4 \ +\tfrac{1}{6}x_1^3x_5 \ -\tfrac{1}{4}x_1^2x_2^2 \ +\tfrac{1}{2}x_1^2x_2x_4 \ +\tfrac{1}{2}x_1^2x_2x_5\\
&-\tfrac{1}{4}x_1^2x_4^2 \ -\tfrac{1}{4}x_1^2x_5^2 \ -\tfrac{1}{6}x_1x_2^3 \ +\tfrac{1}{2}x_1x_2^2x_5 \ -\tfrac{1}{2}x_1x_2x_5^2 \ +\tfrac{1}{6}x_1x_5^3 \ -\tfrac{1}{24}x_2^4 \ +\tfrac{1}{6}x_2^3x_5\\
&-\tfrac{1}{4}x_2^2x_5^2 \ +\tfrac{1}{6}x_2x_5^3 \ -\tfrac{1}{24}x_3^4 \ +\tfrac{1}{6}x_3^3x_4 \ +\tfrac{1}{6}x_3^3x_5 \ -\tfrac{1}{4}x_3^2x_4^2 \ -\tfrac{1}{2}x_3^2x_4x_5 \ -\tfrac{1}{4}x_3^2x_5^2\\
&+\tfrac{1}{6}x_3x_4^3 \ +\tfrac{1}{2}x_3x_4^2x_5 \ +\tfrac{1}{2}x_3x_4x_5^2 \ +\tfrac{1}{6}x_3x_5^3 \ -\tfrac{1}{24}x_4^4 \ -\tfrac{1}{6}x_4^3x_5 \ -\tfrac{1}{4}x_4^2x_5^2 \ -\tfrac{1}{6}x_4x_5^3\\
&-\tfrac{1}{12}x_5^4 \ -\tfrac{1}{2}x_1^3 \ -\tfrac{3}{4}x_1^2x_2 \ +\tfrac{3}{4}x_1^2x_4 \ +\tfrac{3}{4}x_1^2x_5 \ -\tfrac{3}{4}x_1x_2^2 \ +\tfrac{3}{2}x_1x_2x_4 \ +\tfrac{3}{2}x_1x_2x_5\\
&-\tfrac{3}{4}x_1x_4^2 \ -\tfrac{3}{4}x_1x_5^2 \ -\tfrac{1}{4}x_2^3 \ +\tfrac{3}{4}x_2^2x_5 \ -\tfrac{3}{4}x_2x_5^2 \ +\tfrac{1}{4}x_3^3 \ -\tfrac{3}{4}x_3^2x_4 \ -\tfrac{3}{4}x_3^2x_5 \ +\tfrac{3}{4}x_3x_4^2\\
&+\tfrac{3}{2}x_3x_4x_5 \ +\tfrac{3}{4}x_3x_5^2 \ -\tfrac{1}{4}x_4^3 \ -\tfrac{3}{4}x_4^2x_5 \ -\tfrac{3}{4}x_4x_5^2 \ -\tfrac{5}{12}x_1^2 \ +\tfrac{1}{4}x_1x_2 \ +\tfrac{13}{12}x_1x_4\\
&+\tfrac{11}{12}x_1x_5 \ -\tfrac{11}{24}x_2^2 \ +x_2x_4 \ +\tfrac{11}{12}x_2x_5 \ -\tfrac{11}{24}x_3^2 \ +\tfrac{11}{12}x_3x_4 \ +\tfrac{11}{12}x_3x_5 \ -\tfrac{23}{24}x_4^2\\
&-\tfrac{11}{12}x_4x_5 \ -\tfrac{11}{12}x_5^2 \ +x_1 \ +\tfrac{3}{4}x_2 \ +\tfrac{1}{4}x_3 \ +\tfrac{1}{4}x_4 \ +1
\end{aligned}
$$

chamber 9:

$$
\begin{aligned}
&-\tfrac{1}{12}x_1^4 \ -\tfrac{1}{3}x_1^3x_2 \ +\tfrac{1}{6}x_1^3x_4 \ +\tfrac{1}{6}x_1^3x_5 \ -\tfrac{1}{4}x_1^2x_2^2 \ +\tfrac{1}{2}x_1^2x_2x_4 \ +\tfrac{1}{2}x_1^2x_2x_5\\
&-\tfrac{1}{4}x_1^2x_4^2 \ -\tfrac{1}{4}x_1^2x_5^2 \ -\tfrac{1}{3}x_1x_2^3 \ +\tfrac{1}{2}x_1x_2^2x_4 \ +\tfrac{1}{2}x_1x_2^2x_5 \ -\tfrac{1}{2}x_1x_2x_4^2 \ -\tfrac{1}{2}x_1x_2x_5^2\\
&+\tfrac{1}{6}x_1x_4^3 \ +\tfrac{1}{6}x_1x_5^3 \ -\tfrac{1}{12}x_2^4 \ +\tfrac{1}{6}x_2^3x_4 \ +\tfrac{1}{6}x_2^3x_5 \ -\tfrac{1}{4}x_2^2x_4^2 \ -\tfrac{1}{4}x_2^2x_5^2 \ +\tfrac{1}{6}x_2x_4^3\\
&+\tfrac{1}{6}x_2x_5^3 \ -\tfrac{1}{24}x_3^4 \ +\tfrac{1}{6}x_3^3x_4 \ +\tfrac{1}{6}x_3^3x_5 \ -\tfrac{1}{4}x_3^2x_4^2 \ -\tfrac{1}{2}x_3^2x_4x_5 \ -\tfrac{1}{4}x_3^2x_5^2 \ +\tfrac{1}{6}x_3x_4^3\\
&+\tfrac{1}{2}x_3x_4^2x_5 \ +\tfrac{1}{2}x_3x_4x_5^2 \ +\tfrac{1}{6}x_3x_5^3 \ -\tfrac{1}{12}x_4^4 \ -\tfrac{1}{6}x_4^3x_5 \ -\tfrac{1}{4}x_4^2x_5^2 \ -\tfrac{1}{6}x_4x_5^3 \ -\tfrac{1}{12}x_5^4\\
&-\tfrac{1}{2}x_1^3 \ -\tfrac{3}{4}x_1^2x_2 \ +\tfrac{3}{4}x_1^2x_4 \ +\tfrac{3}{4}x_1^2x_5 \ -\tfrac{3}{4}x_1x_2^2 \ +\tfrac{3}{2}x_1x_2x_4 \ +\tfrac{3}{2}x_1x_2x_5 \ -\tfrac{3}{4}x_1x_4^2\\
&-\tfrac{3}{4}x_1x_5^2 \ -\tfrac{1}{2}x_2^3 \ +\tfrac{3}{4}x_2^2x_4 \ +\tfrac{3}{4}x_2^2x_5 \ -\tfrac{3}{4}x_2x_4^2 \ -\tfrac{3}{4}x_2x_5^2 \ +\tfrac{1}{4}x_3^3 \ -\tfrac{3}{4}x_3^2x_4 \ -\tfrac{3}{4}x_3^2x_5\\
&+\tfrac{3}{4}x_3x_4^2 \ +\tfrac{3}{2}x_3x_4x_5 \ +\tfrac{3}{4}x_3x_5^2 \ -\tfrac{3}{4}x_4^2x_5 \ -\tfrac{3}{4}x_4x_5^2 \ -\tfrac{5}{12}x_1^2 \ +\tfrac{5}{12}x_1x_2 \ +\tfrac{11}{12}x_1x_4\\
&+\tfrac{11}{12}x_1x_5 \ -\tfrac{5}{12}x_2^2 \ +\tfrac{11}{12}x_2x_4 \ +\tfrac{11}{12}x_2x_5 \ -\tfrac{11}{24}x_3^2 \ +\tfrac{11}{12}x_3x_4 \ +\tfrac{11}{12}x_3x_5 \ -\tfrac{11}{12}x_4^2\\
&-\tfrac{11}{12}x_4x_5 \ -\tfrac{11}{12}x_5^2 \ +x_1 \ +x_2 \ +\tfrac{1}{4}x_3 \ +1
\end{aligned}
$$

chamber 10:

$$
\begin{aligned}
&-\tfrac{1}{24}x_1^4 \ -\tfrac{1}{6}x_1^3x_2 \ +\tfrac{1}{6}x_1^3x_4 \ +\tfrac{1}{2}x_1^2x_2x_4 \ -\tfrac{1}{4}x_1^2x_4^2 \ -\tfrac{1}{4}x_1^3 \ +\tfrac{3}{4}x_1^2x_4 \ +\tfrac{3}{2}x_1x_2x_4\\
&-\tfrac{3}{4}x_1x_4^2 \ +\tfrac{1}{24}x_1^2 \ +\tfrac{7}{6}x_1x_2 \ +\tfrac{13}{12}x_1x_4 \ +x_2x_4 \ -\tfrac{1}{2}x_4^2 \ +\tfrac{5}{4}x_1 \ +x_2 \ +\tfrac{1}{2}x_4 \ +1
\end{aligned}
$$

chamber 11:

$$
\begin{aligned}
&-\tfrac{1}{24}x_1^4 \ -\tfrac{1}{6}x_1^3x_2 \ +\tfrac{1}{6}x_1^3x_4 \ +\tfrac{1}{2}x_1^2x_2x_4 \ -\tfrac{1}{4}x_1^2x_4^2 \ -\tfrac{1}{6}x_1x_2^3 \ +\tfrac{1}{2}x_1x_2^2x_4\\
&-\tfrac{1}{2}x_1x_2x_4^2 \ +\tfrac{1}{6}x_1x_4^3 \ -\tfrac{1}{24}x_2^4 \ +\tfrac{1}{6}x_2^3x_4 \ -\tfrac{1}{4}x_2^2x_4^2 \ +\tfrac{1}{6}x_2x_4^3 \ -\tfrac{1}{24}x_4^4 \ -\tfrac{1}{4}x_1^3\\
&+\tfrac{3}{4}x_1^2x_4 \ +\tfrac{3}{2}x_1x_2x_4 \ -\tfrac{3}{4}x_1x_4^2 \ -\tfrac{1}{4}x_2^3 \ +\tfrac{3}{4}x_2^2x_4 \ -\tfrac{3}{4}x_2x_4^2 \ +\tfrac{1}{4}x_4^3 \ +\tfrac{1}{24}x_1^2\\
&+\tfrac{4}{3}x_1x_2 \ +\tfrac{11}{12}x_1x_4 \ +\tfrac{1}{24}x_2^2 \ +\tfrac{11}{12}x_2x_4 \ -\tfrac{11}{24}x_4^2 \ +\tfrac{5}{4}x_1 \ +\tfrac{5}{4}x_2 \ +\tfrac{1}{4}x_4 \ +1
\end{aligned}
$$

chamber 12:

$$
\tfrac{1}{4}x_1^2x_2^2 \ +\tfrac{3}{4}x_1^2x_2 \ +\tfrac{3}{4}x_1x_2^2 \ +\tfrac{1}{2}x_1^2 \ +\tfrac{9}{4}x_1x_2 \ +\tfrac{1}{2}x_2^2 \ +\tfrac{3}{2}x_1 \ +\tfrac{3}{2}x_2 \ +1
$$