

$$\begin{aligned}
f_1 &= x_7 + x_7x_8 + x_6 + x_6x_7 + x_6x_7x_8 + x_5 + x_5x_8 + x_5x_6 + x_5x_6x_7 + x_4 + \\
& x_3x_4 + x_2x_3 + x_2x_3x_4 + x_1x_3 + x_1x_2 + x_1x_2x_3 \\
f_2 &= x_8 + x_7 + x_7x_8 + x_6x_8 + x_6x_7 + x_6x_7x_8 + x_5 + x_5x_8 + x_5x_7x_8 + x_3x_4 + \\
& x_2 + x_2x_4 + x_2x_3x_4 + x_1 + x_1x_3 + x_1x_2x_3 \\
f_3 &= 1 + x_6x_7 + x_5x_8 + x_5x_7 + x_5x_6 + x_5x_6x_8 + x_3 + x_3x_4 + x_2 + x_2x_4 + \\
& x_1x_4 + x_1x_2x_3 \\
f_4 &= x_7x_8 + x_6x_8 + x_6x_7 + x_6x_7x_8 + x_5 + x_5x_7x_8 + x_2x_4 + x_1 + x_1x_3 + x_1x_2x_4 + \\
& x_1x_2x_3
\end{aligned}$$