

$$\begin{aligned}f_1 &= x_6 + x_2 + x_1 \\f_2 &= x_7 + x_3 + x_2 \\f_3 &= x_8 + x_5 + x_4 + x_3 + x_1 \\f_4 &= x_5 + x_4 + x_1 \\f_5 &= x_6 + x_5 + x_2 \\f_6 &= x_7 + x_6 + x_3 \\f_7 &= x_8 + x_7 + x_5 + x_4 + x_1 \\f_8 &= x_8 + x_5 + x_1\end{aligned}$$