

The set of our maximal monoms is:

$$M(f) = \{ \max_1, \max_2, \max_3 \}$$

- $\max_1 = m_1 \vee m_3 \vee m_{11} = X_4 \bar{X}_2$ (double factorization)
- $\max_2 = m_0 \vee m_1 = \bar{X}_1 \bar{X}_2 \bar{X}_3$ (simple factorization)
- $\max_3 = m_1 \vee m_5 = \bar{X}_1 \bar{X}_3 X_4$ (simple factorization)

All maximal monoms are central monoms, because each maximal monom contains (at least) a minterm circled once. Thus, we will use the first case of the simplification algorithm.

There is a unique ~~an~~ simplified form of f , obtained as the disjunction of all central monoms:

$$f^S = \max_1 \vee \max_2 \vee \max_3 = \bar{X}_2 X_4 \vee \bar{X}_1 \bar{X}_2 \bar{X}_3 \vee \bar{X}_1 \bar{X}_3 X_4$$



