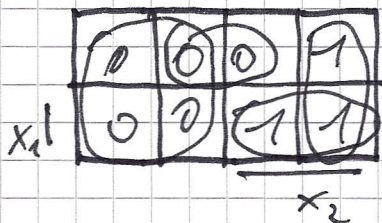


5. Mehrstufige Realisierungen - Faktorisierung

5.1. Einleitung

$$y = f(x) = \sum x_i m_i = \prod (y_0 + M_i)$$

$$k=3 \quad y = \sum_{x_0} 4,6,7 = \prod 0,1,2,3,5$$



DNF

$$y = x_2 x_1 + x_2 \bar{x}_0$$

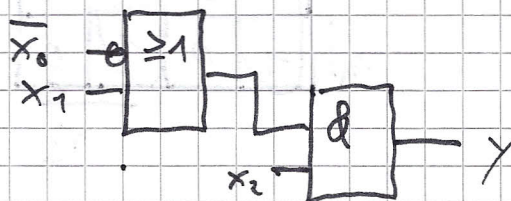
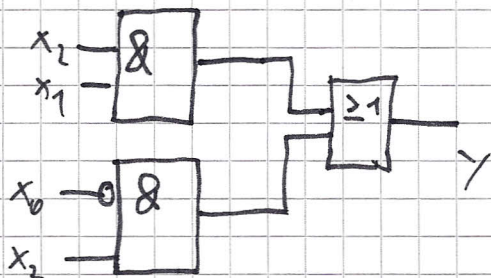
KNF

$$y = x_2 \cdot (\bar{x}_0 + x_1)$$

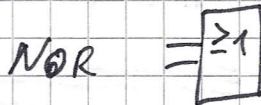
• Krause Logik

$$y = x_2 x_1 + x_2 \bar{x}_0$$

$$y = x_2 \cdot (\bar{x}_0 + x_1)$$



• Realisierung in ein Basissystem



minimale DNF:

$$y = x_2 x_1 + x_2 \bar{x}_0$$

$$= \overline{\overline{x_2 x_1 + x_2 \bar{x}_0}}$$

$$= \overline{x_2 x_1} \cdot \overline{x_2 \bar{x}_0}$$

