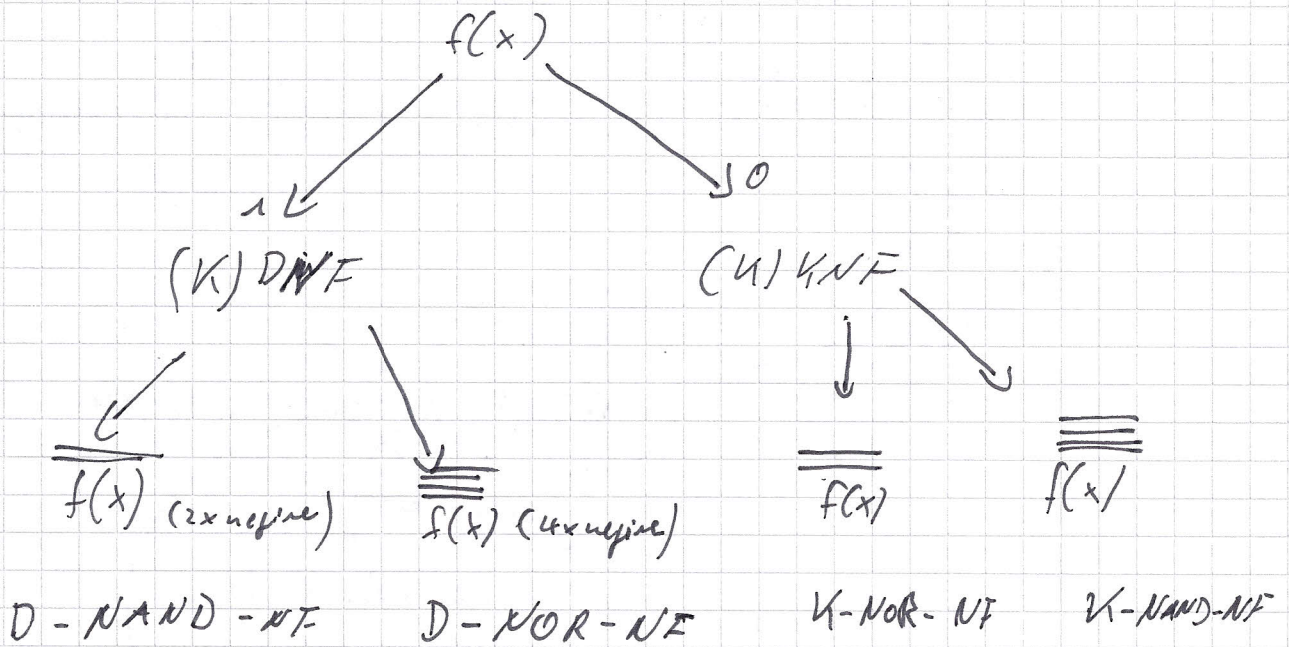


# NAND / NOR



DNF       $f(x) = x_2 x_1 + \bar{x}_2 x_0$

NAND:       $x_2 x_1 + \bar{x}_2 x_0 = \overline{\overline{x_2 x_1 + \bar{x}_2 x_0}} = \overline{\overline{x_2 x_1} \cdot \overline{\bar{x}_2 x_0}}$

NOR:       $x_2 x_1 + \bar{x}_2 x_0 = \overline{\overline{x_2 x_1 + \bar{x}_2 x_0}} = \overline{\overline{x_2 + x_1} \cdot \overline{x_2 + x_0}}$

KNF:       $f(x) = (\bar{x}_2 + \bar{x}_1)(x_2 + x_0)$

NOR:       $(\bar{x}_2 + \bar{x}_1)(x_2 + x_0) = \overline{\overline{(\bar{x}_2 + \bar{x}_1)(x_2 + x_0)}} = \overline{\overline{\bar{x}_2 + \bar{x}_1} \cdot \overline{x_2 + x_0}}$

NAND:       $(\bar{x}_2 + \bar{x}_1)(x_2 + x_0)$

$x_2 x_1 \cdot \bar{x}_2 \bar{x}_0$