

$$f(c, b, a)_{\text{OR}} = \bar{b} \cdot a + \bar{c} \cdot \bar{b}$$

$$f(c, b, a)_{\text{NAND}} = \overline{(a \cdot \bar{b}) \cdot (\bar{c} \cdot \bar{b})}$$

$$f(c, b, a)_{\text{NOR}} = \overline{b + a + \bar{c}}$$