

Wstęp do informatyki

Ćwiczenia 3

Zadanie domowe

zadanie domowe 1

$$\begin{aligned} f(a,b,c) &= a \wedge b \wedge c \vee a \wedge b \wedge \bar{c} \vee a \wedge \bar{b} \wedge c = \\ &= (a \wedge b \wedge c) \vee (a \wedge b \wedge \bar{c}) \vee (a \wedge \bar{b} \wedge c) = a \wedge b \wedge c \end{aligned}$$

w) NAND

$$f(a,b,c) = a \wedge b \wedge c$$

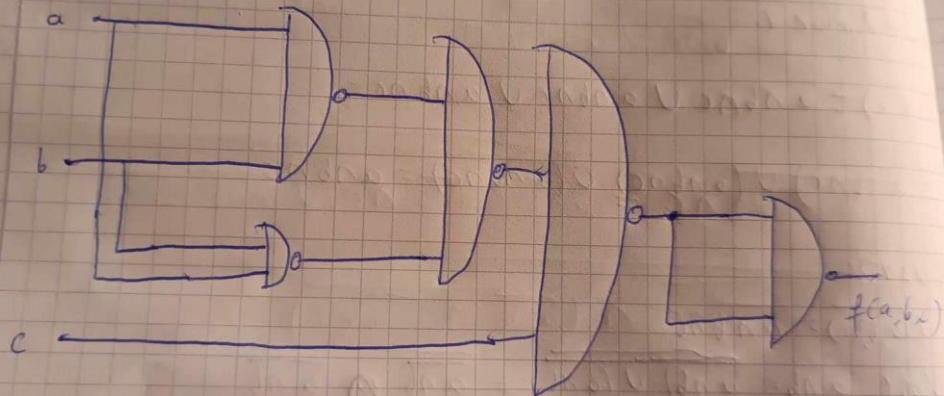
$$\text{Krok 1: } a \wedge b = \overline{\overline{a \wedge b}} = \overline{\overline{a} \vee \overline{b}}$$

$$\text{Krok 2: } (a \wedge b) \wedge c = \overline{\overline{\overline{a \wedge b} \wedge c}} = \overline{\overline{\overline{a \wedge b}} \vee \overline{c}} =$$

$$= \overline{\overline{\overline{a \wedge b} \wedge c}} = \overline{\overline{\overline{a \wedge b}} \vee \overline{c}} =$$

$$= \overline{\overline{\overline{a \wedge b} \wedge c}} = \overline{\overline{\overline{a \wedge b}} \vee \overline{c}}$$

a)



$$b) \ a b c = \overline{\overline{a b c}} = \overline{\overline{a} \overline{b} \overline{c}} = \overline{\overline{a} \overline{b} \overline{c}} =$$

$$= \overline{\overline{a} \overline{b} \overline{c}} = \overline{\overline{a} \overline{b} \overline{c}} =$$

