

2/3 k 1103 год-тб

$$1) a \rightarrow (c \rightarrow b), d \rightarrow a, c \Rightarrow d \rightarrow b$$

$$2) 1 \Rightarrow (a \rightarrow b) \rightarrow ((c \rightarrow d) \rightarrow ((a \vee c) \rightarrow (b \vee d)))$$

$$3) a \rightarrow c, a \vee b, b \rightarrow d, d \rightarrow c \Rightarrow c$$

$$4) a \vee c, c \rightarrow \bar{d}, a \rightarrow d, b \vee c \Rightarrow d \rightarrow (b \wedge d)$$

$$a \quad b \quad \wedge \quad \vee \rightarrow \sim$$

$$0 \quad 0 \quad 0 \quad 0 \quad 1 \quad 1$$

$$0 \quad 1 \quad 0 \quad 1 \quad 1 \quad 0$$

$$1 \quad 0 \quad 0 \quad 1 \quad 0 \quad 0$$

$$1 \quad 1 \quad 1 \quad 1 \quad 1 \quad 1$$

$$a, b \Rightarrow c, d$$

$$\wedge \quad , \quad (\text{только слева})$$

$$0, 1$$

$$\vee \quad , \quad (\text{только справа})$$

$$\neq$$

$$\rightarrow \Rightarrow$$

$$a \wedge b \Rightarrow a$$

$$a, b \Rightarrow c, d$$

$$a \wedge b \Rightarrow c \vee d$$

$$a \Rightarrow c, d, \bar{b}$$

$$\underline{a \rightarrow b = \bar{a} \vee b}$$

$$\bar{c}, a, b \Rightarrow d$$

$$\underline{a \rightarrow (c \rightarrow b)}, \underline{d \rightarrow a}, \underline{c} \Rightarrow d \rightarrow b$$

$$\neq$$

$$\bar{d} \vee b$$

$$0, 0, 0, 0$$

$$\cancel{0 \rightarrow 1}$$

$$\underline{\bar{d}}, b$$

$$a \rightarrow (), c, d, d \rightarrow a \Rightarrow b$$

$$d, d \rightarrow a \Rightarrow a$$

$$\underline{a \rightarrow ()}, c, \underline{a} \Rightarrow b$$

$$c \rightarrow b, c \Rightarrow b$$

$$\underline{a \Rightarrow b}$$

$$1 \wedge a \Rightarrow b \vee 0$$

$$1, a \Rightarrow b, 0$$

$$1 \Rightarrow \bar{a} \vee b, 1 \Rightarrow a \rightarrow b$$

$$\underline{a \wedge \bar{b} \Rightarrow 0}$$

$$||$$

$$0$$

$$a \rightarrow b \Rightarrow b \rightarrow a$$

$$a \rightarrow b \Rightarrow \bar{b} \rightarrow \bar{a}$$

$$\bar{a} \vee b \Rightarrow \bar{b} \vee a$$

$$a \rightarrow b \Rightarrow b \vee \bar{a}$$

$$b \wedge (\bar{a} \vee b) \Rightarrow a$$

$$a, a \rightarrow b \Rightarrow b$$

$$(\bar{a} \wedge b) \vee (b \wedge b) \Rightarrow a$$

$$a=0$$

$$b=1$$

$$1 \Rightarrow 0$$

$$1 \Rightarrow (a \rightarrow b) \rightarrow ((c \rightarrow d) \rightarrow ((a \vee c) \rightarrow (b \vee d)))$$

$$1 \Rightarrow \overline{(a \rightarrow b)} \vee ((c \rightarrow d) \rightarrow ((a \vee c) \rightarrow (b \vee d)))$$

$$(a \rightarrow b) \wedge 1 \Rightarrow (c \rightarrow d) \rightarrow ((a \vee c) \rightarrow (b \vee d))$$

$$a \rightarrow b \Rightarrow \overline{(c \rightarrow d)} \vee ((a \vee c) \rightarrow (b \vee d))$$

$$(a \rightarrow b) \wedge (c \rightarrow d) \Rightarrow (a \vee c) \rightarrow (b \vee d)$$

$$\underline{(a \vee c)} \wedge \underline{(a \rightarrow b)} \wedge \underline{(c \rightarrow d)} \Rightarrow (b \vee d)$$

$$a, a \rightarrow b \Rightarrow b, b \Rightarrow b \vee d$$

$$c, c \rightarrow d \Rightarrow d$$

$$(a \vee c) \wedge (\bar{a} \vee b) \wedge (\bar{c} \vee d) \Rightarrow b \vee d$$

$$\bar{b} \wedge \bar{d} \wedge (a \vee c) \wedge (\bar{a} \vee b) \wedge (\bar{c} \vee d) \Rightarrow 0$$

$$\underline{\bar{b}} \wedge \underline{\bar{d}} \wedge (a \vee c) \wedge (\underline{\bar{b} \rightarrow \bar{a}}) \wedge (\underline{\bar{d} \rightarrow \bar{c}}) \Rightarrow 0$$

$$\bar{a} \wedge \bar{c} \wedge (a \vee c) \Rightarrow 0$$

$$\overline{(a \vee c)} \wedge (a \vee c) \Rightarrow 0$$

$$\bar{x} \wedge x \Rightarrow 0$$