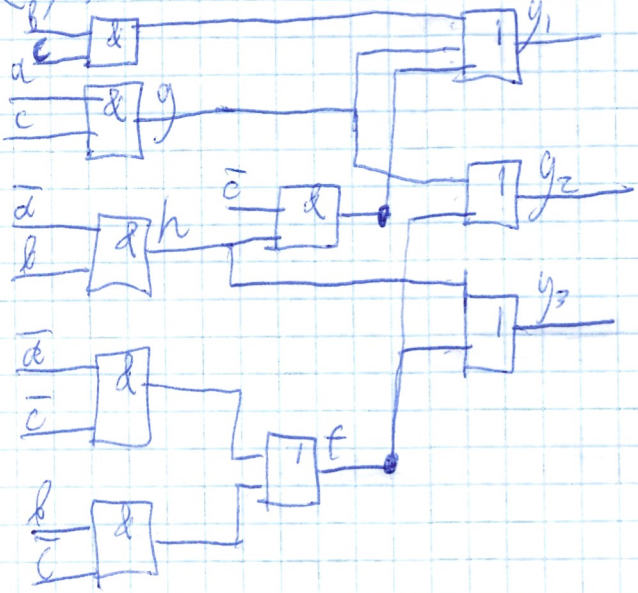
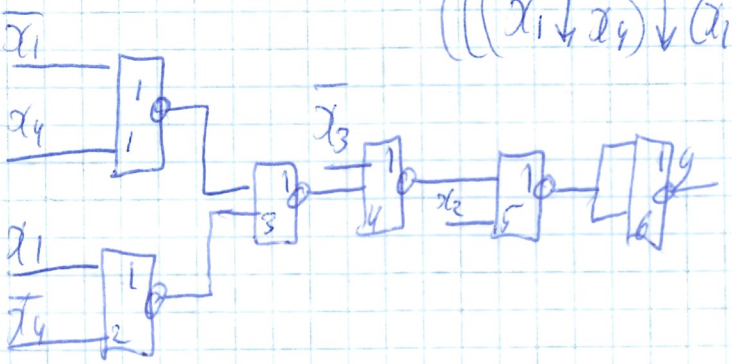
$$\begin{cases} f = \bar{a}\bar{c} \vee b\bar{c} & 6 \\ g = ac & 2 \\ h = \bar{a}b & 2 \\ y_1 = h\bar{c} \vee \bar{b}cvg & 7 \\ y_2 = f \vee g & 2 \\ y_3 = f \vee h & 2 \end{cases} \quad S_q = 21.$$



$S_q = 21$
$\tau = 3t_c$

8. $\overline{(((\bar{x}_1 \downarrow x_4) \downarrow (x_1 \downarrow \bar{x}_4)) \downarrow \bar{x}_3) \downarrow x_2}$



Блоки 1-3:

$$\overline{\bar{x}_1 \vee x_4 \vee x_1 \vee \bar{x}_4} = (\bar{x}_1 \vee x_4)(x_1 \vee \bar{x}_4) = \bar{x}_1\bar{x}_4 \vee x_1x_4$$

$$\overline{(\bar{x}_1\bar{x}_4 \vee x_1x_4) \vee \bar{x}_3 \vee x_2} = \overline{(\bar{x}_1\bar{x}_4 \vee x_1x_4) \vee \bar{x}_3} \vee x_2 =$$

$$= \overline{(\bar{x}_1\bar{x}_4 \vee x_1x_4) \wedge x_3} \vee x_2 = (\bar{x}_1\bar{x}_4 \wedge x_1x_4 \wedge x_3) \vee x_2 =$$

$$= (x_1 \vee x_4)(\bar{x}_1 \vee \bar{x}_4)x_3 \vee x_2 = (x_1\bar{x}_4 \vee \bar{x}_1x_4)x_3 \vee x_2 =$$

$$= x_1x_3\bar{x}_4 \vee \bar{x}_1x_3x_4 \vee x_2$$