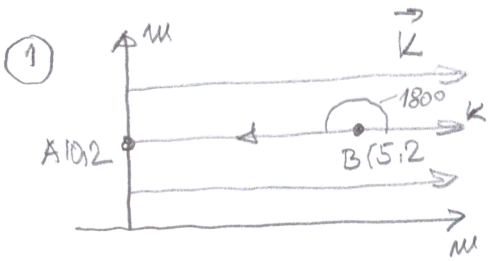
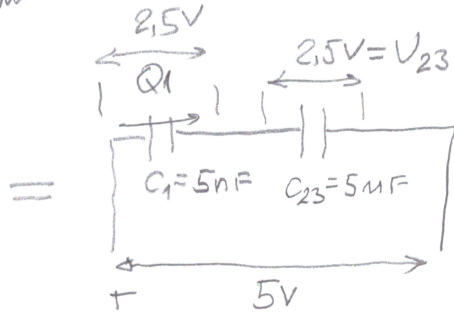
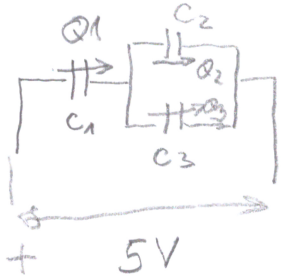


РЕШЕНИЕ ПОПРАВНОГО КОЛОКВИУМА
ОЗРЧАТОГ 28.11.



$$U_{BA} = \vec{K} \cdot \vec{BA} = 10 \cdot 5 \cos(180^\circ) = -50V$$

②



$$Q_1 = 2,5 \cdot 5 \mu C$$

$$Q_1 = 12,5 \mu C$$

Натан на C_2 и C_3 је $2,5V$ следи $Q_2 = C_2 \cdot U_{23} = 2 \cdot 2,5 = 5 \mu C$

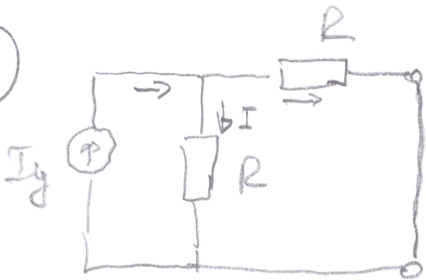
$$Q_3 = C_3 U_{23} = 3 \cdot 2,5 = 7,5 \mu C$$

ПРОБЕРА $Q_1 = Q_2 + Q_3$

$$12,5 = 5 + 7,5$$

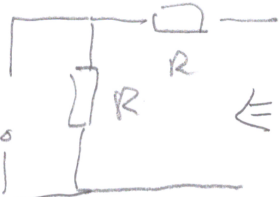
$$12,5 = 5 + 7,5$$

③



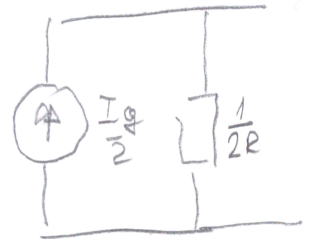
$$I_N = \frac{I_g}{2}$$

cutting of wires

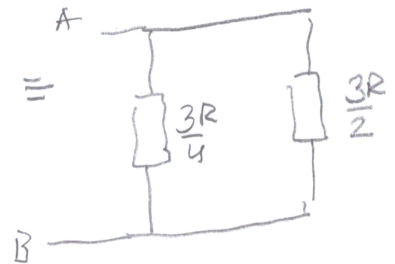
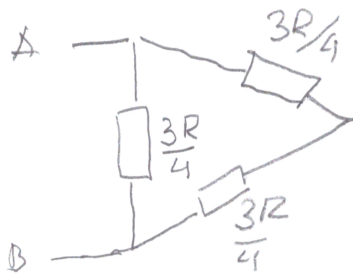
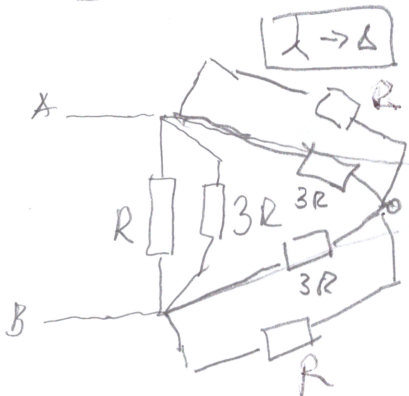


$$R_T = 2R$$

$$G_{in} = \frac{1}{R_T} = \frac{1}{2R}$$



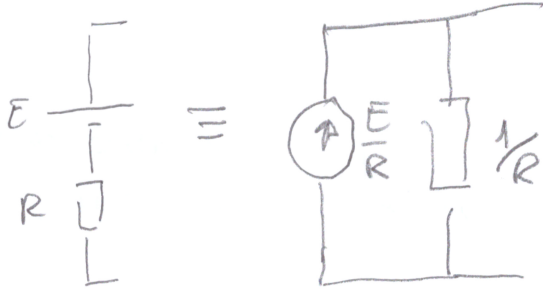
④



$$R_e = \frac{\frac{9R^2}{8}}{\frac{9R}{4}} = \frac{36R^2}{72R} = \frac{1}{2} R$$

$$5 \quad \left(\frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_5} \right) U_{10} - \frac{1}{R_5} U_{20} = \frac{E_2}{R_2}$$

$$- \frac{1}{R_5} U_{10} + \left(\frac{1}{R_5} + \frac{1}{R_3} + \frac{1}{R_4} \right) U_{20} = \frac{E_3}{R_3} - \frac{E_1}{R_1}$$



$$G_{11} U_{10} - G_{12} U_{20} = \sum_1 I_g$$

$$- G_{12} U_{10} + G_{22} U_{20} = \sum_2 I_g$$