

1-25)

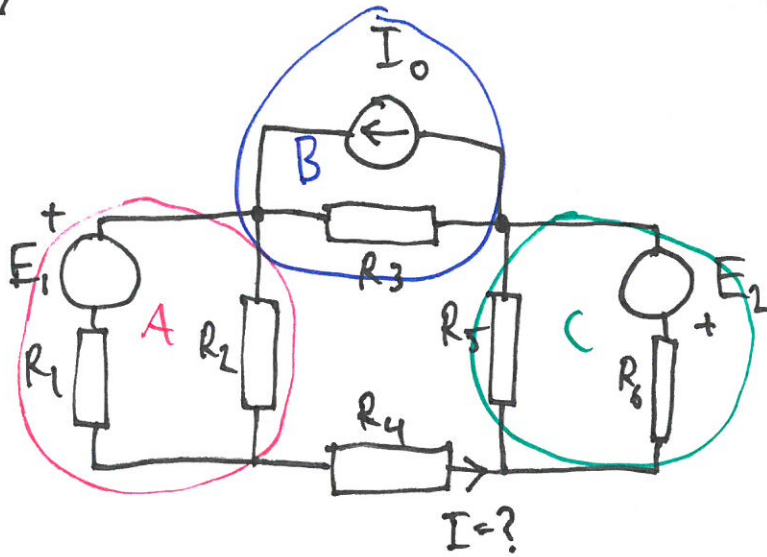
$$E_1 = 6 \text{ V} \quad E_2 = 12 \text{ V}$$

$$I_0 = 1 \text{ A}$$

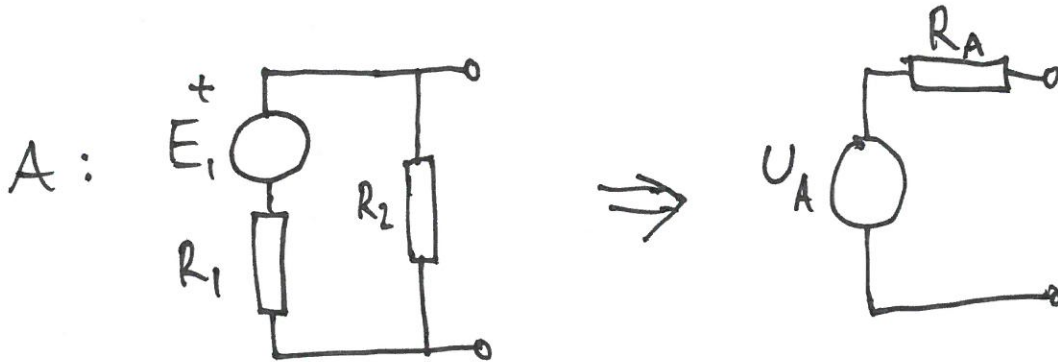
$$R_1 = 6 \Omega, R_2 = 12 \Omega$$

$$R_3 = 10 \Omega, R_4 = 2 \Omega$$

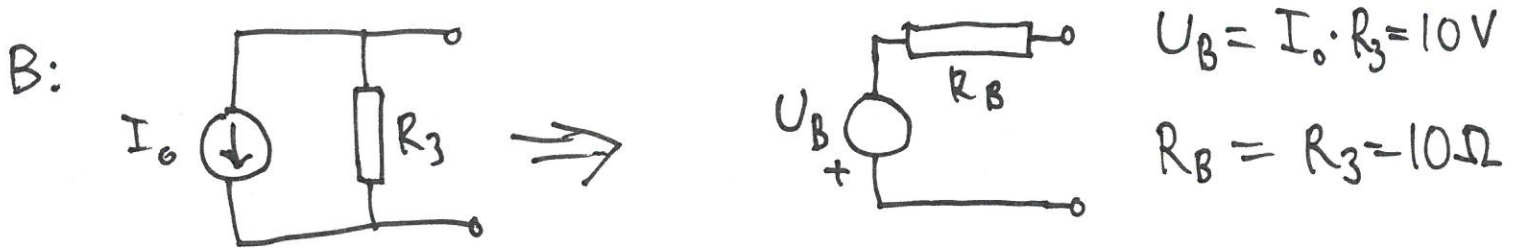
$$R_5 = 8 \Omega, R_6 = 8 \Omega$$



Er sätt A, B och C med deras Thévenin ekv:

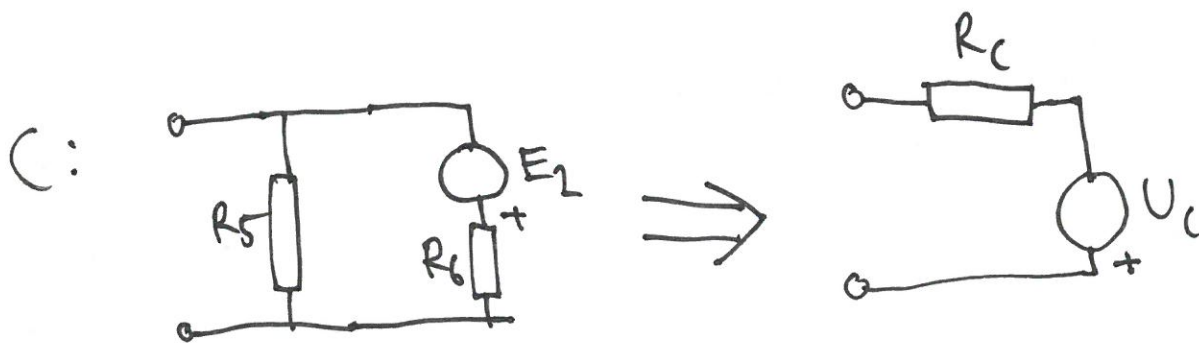


$$U_A = \frac{R_2 \cdot E_1}{R_1 + R_2} = \frac{12 \cdot 6}{6 + 12} = 4 \text{ V} \quad R_A = \frac{R_1 \cdot R_2}{R_1 + R_2} = \frac{12 \cdot 6}{6 + 12} = 4 \Omega$$

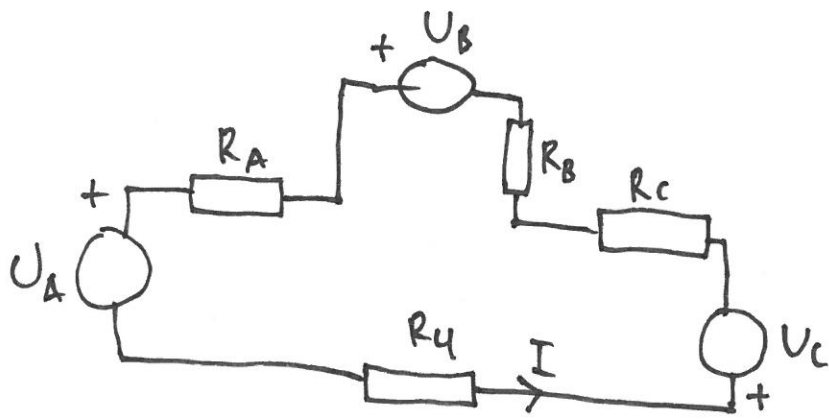


$$U_B = I_0 \cdot R_3 = 10 \text{ V}$$

$$R_B = R_3 = 10 \Omega$$



$$R_C = \frac{R_5 \cdot R_6}{R_5 + R_6} = \frac{8 \cdot 8}{8 + 8} = 4 \quad U_C = \frac{R_5 \cdot E_2}{R_5 + R_6} = \frac{8 \cdot 12}{8 + 8} = 6 \text{ V}$$



$$U_A - U_B + U_C = 4 - 10 + 6 = 0$$

$$\Rightarrow I = 0 \text{ A}$$

$$I = 0$$