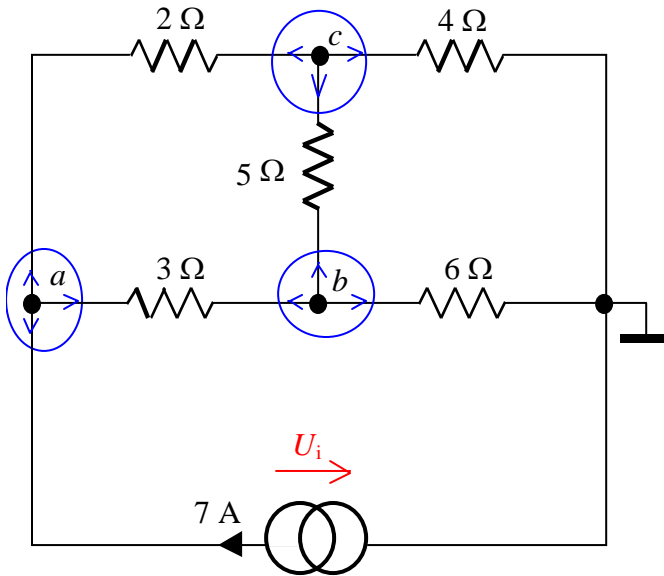


UZLOVÉ NAPÄTIA – takmer vyriešené príklady

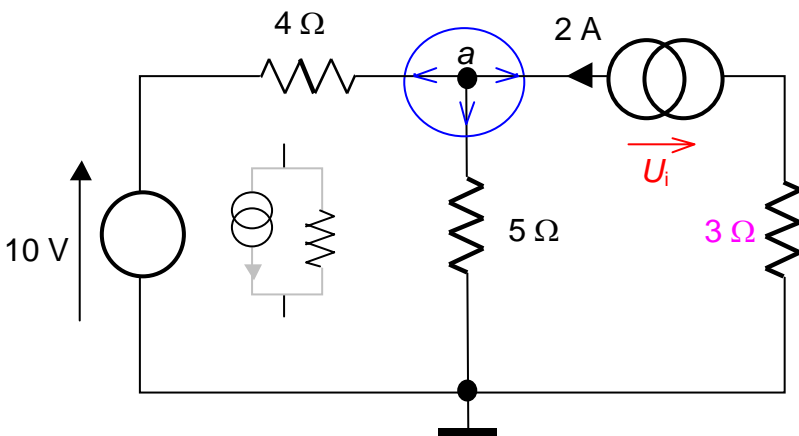


$$U_a \left(\frac{1}{3} + \frac{1}{2} \right) - U_b \frac{1}{3} - U_c \frac{1}{2} = 7$$

$$U_b \left(\frac{1}{3} + \frac{1}{5} + \frac{1}{6} \right) - U_a \frac{1}{3} - U_c \frac{1}{5} = 0$$

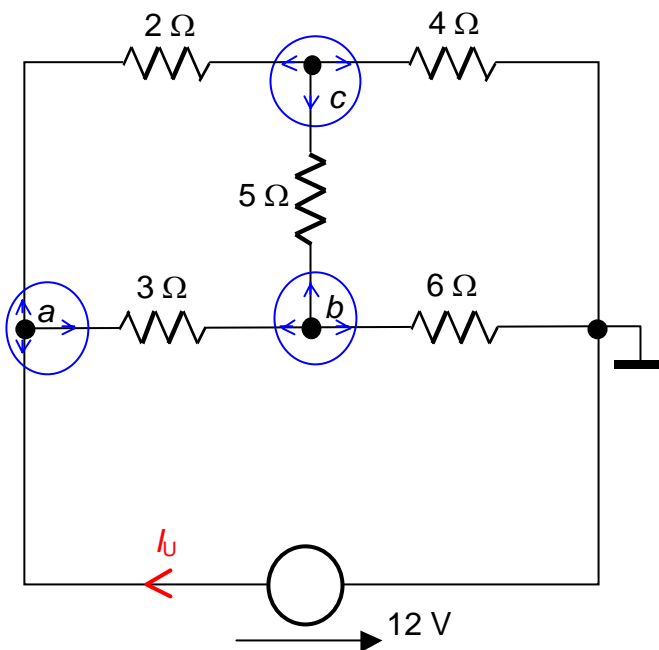
$$U_c \left(\frac{1}{2} + \frac{1}{5} + \frac{1}{4} \right) - U_a \frac{1}{2} - U_b \frac{1}{5} = 0$$

$$\begin{bmatrix} 5/6 & -3^{-1} & -2^{-1} \\ -3^{-1} & 0.7 & -5^{-1} \\ -2^{-1} & -5^{-1} & 0.95 \end{bmatrix} \cdot \begin{bmatrix} U_a \\ U_b \\ U_c \end{bmatrix} = \begin{bmatrix} 7 \\ 0 \\ 0 \end{bmatrix}$$



$$U_a \left(\frac{1}{4} + \frac{1}{5} \right) = 2 - \frac{10}{4}$$

$$[0.45] \cdot [U_a] = [-0.5]$$



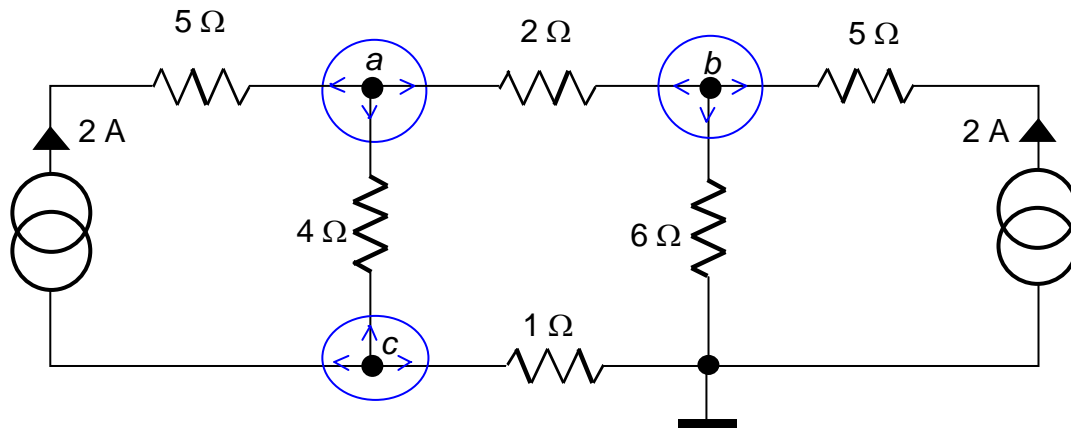
$$U_a \left(\frac{1}{3} + \frac{1}{2} \right) - U_b \frac{1}{3} - U_c \frac{1}{2} = I_U$$

$$U_b \left(\frac{1}{3} + \frac{1}{5} + \frac{1}{6} \right) - U_a \frac{1}{3} - U_c \frac{1}{5} = 0$$

$$U_c \left(\frac{1}{2} + \frac{1}{5} + \frac{1}{4} \right) - U_a \frac{1}{2} - U_b \frac{1}{5} = 0$$

$$U_a = 12$$

$$\begin{bmatrix} -3^{-1} & -2^{-1} & -1 \\ 0.7 & -5^{-1} & 0 \\ -5^{-1} & 0.95 & 0 \end{bmatrix} \cdot \begin{bmatrix} U_b \\ U_c \\ I_U \end{bmatrix} = \begin{bmatrix} -10 \\ 4 \\ 6 \end{bmatrix}$$

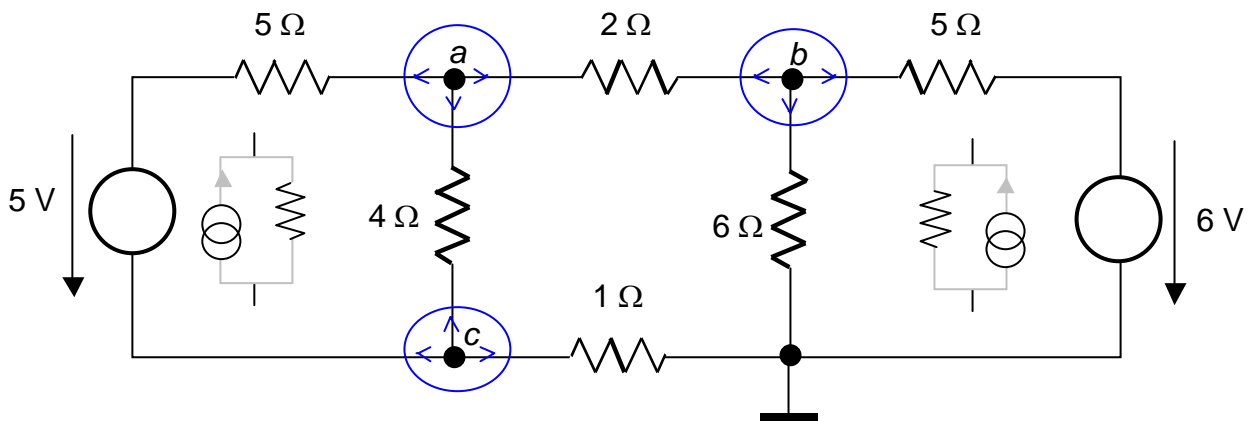


$$U_a \left(\frac{1}{4} + \frac{1}{2} \right) - U_c \frac{1}{4} - U_b \frac{1}{2} = 2$$

$$U_b \left(\frac{1}{2} + \frac{1}{6} \right) - U_a \frac{1}{2} = 2$$

$$U_c \left(\frac{1}{4} + \frac{1}{1} \right) - U_a \frac{1}{4} = -2$$

$$\begin{bmatrix} 3/4 & -2^{-1} & -4^{-1} \\ -2^{-1} & 4/6 & 0 \\ -4^{-1} & 0 & 5/4 \end{bmatrix} \cdot \begin{bmatrix} U_a \\ U_b \\ U_c \end{bmatrix} = \begin{bmatrix} 2 \\ 2 \\ -2 \end{bmatrix}$$



$$U_a \left(\frac{1}{5} + \frac{1}{4} + \frac{1}{2} \right) - U_c \frac{1}{5} - U_c \frac{1}{4} - U_b \frac{1}{2} = \frac{5}{5}$$

$$U_b \left(\frac{1}{2} + \frac{1}{6} + \frac{1}{5} \right) - U_a \frac{1}{2} = \frac{6}{5}$$

$$U_c \left(\frac{1}{5} + \frac{1}{4} + \frac{1}{1} \right) - U_a \frac{1}{4} - U_a \frac{1}{5} = -\frac{5}{5}$$

$$\begin{bmatrix} 0.95 & -2^{-1} & -0.45 \\ -2^{-1} & 13/15 & 0 \\ -0.45 & 0 & 1.45 \end{bmatrix} \cdot \begin{bmatrix} U_a \\ U_b \\ U_c \end{bmatrix} = \begin{bmatrix} 1 \\ 6/5 \\ -1 \end{bmatrix}$$