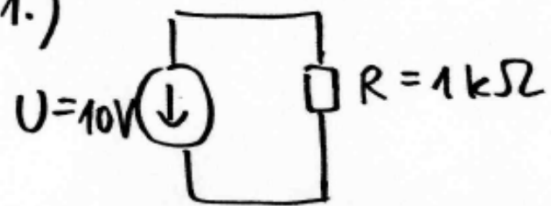


Děčín ZAET, 3. část cvičení

Stacionární ustálený stav

- Sériové a paralelní řazení odporů
- Metoda postupného zjednodušování
- Dělič napětí
- Dělič proudu
- Metoda superpozice
- Transfigurace trojúhelník/hvězda

1.)



$$U_R = ?$$

$$I_R = ?$$

2.)

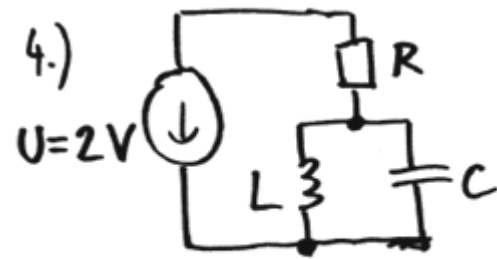


Pro obvod ne S.U.S.
uvěste: 1) $U_C = ?$

2) $I_C = ?$



Pro obvod ve S.U.S.
uvězte: 1) $U_L = ?$
2) $I_L = ?$



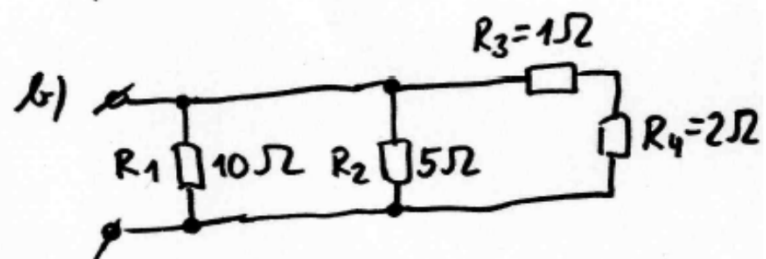
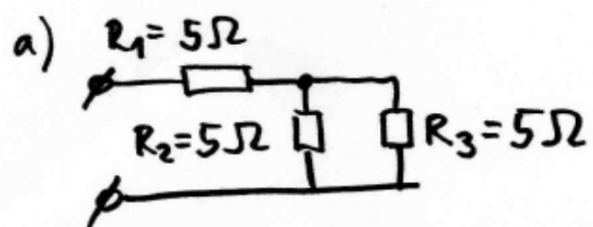
Pro obvod ve S.U.S.

určete: 1) $U_R = ?$, $I_R = ?$

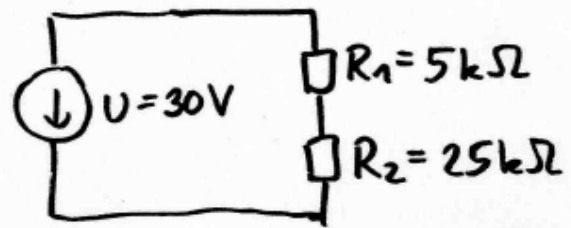
2) $U_L = ?$, $I_L = ?$

3) $U_C = ?$, $I_C = ?$

5.) Nahradte odporovou kombinaci
z obrázku jediným odporem.

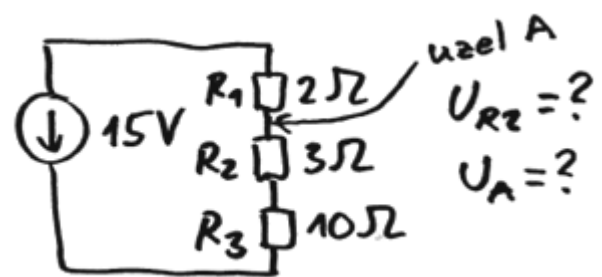


6.)

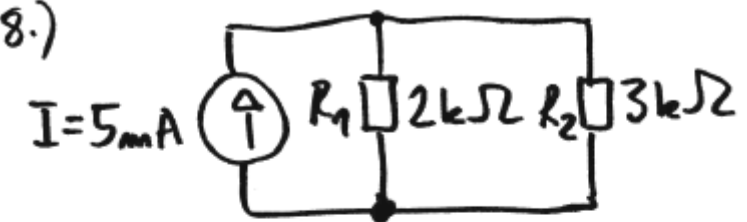


$$U_{R_2} = ?$$

7.)



8.)



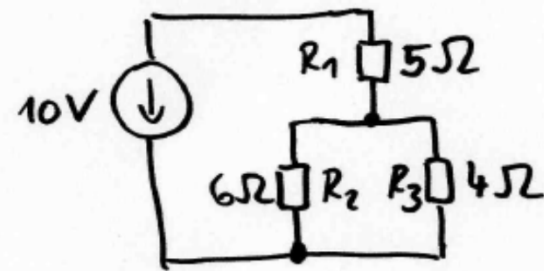
$$I_{R1} = ?$$

$$I_{R2} = ?$$

$$U_{R1} = ?$$

$$U_{R2} = ?$$

9.)



$$I_{R1} = ?$$

$$U_{R1} = ?$$

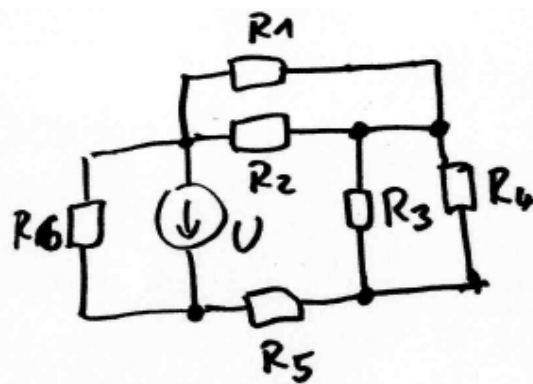
$$I_{R2} = ?$$

$$U_{R2} = ?$$

$$I_{R3} = ?$$

$$I_{R4} = ?$$

10.)



$$U_{R4} = ?$$

$$I_{R4} = ?$$

$$U = 10V$$

$$R_1 = 10\Omega$$

$$R_2 = 20\Omega$$

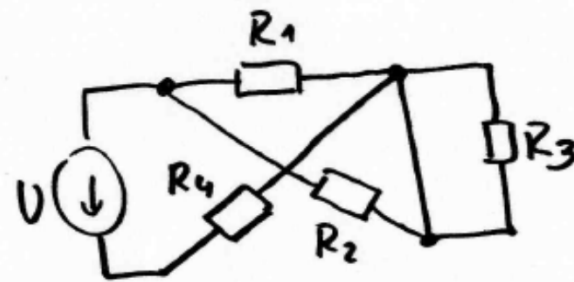
$$R_3 = 30\Omega$$

$$R_4 = 40\Omega$$

$$R_5 = 50\Omega$$

$$R_6 = 60\Omega$$

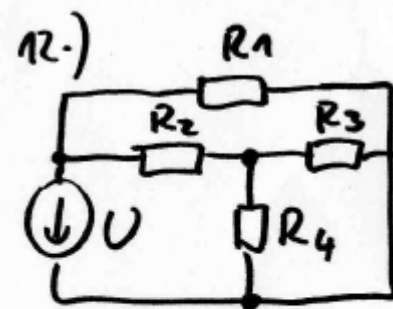
11.)



$$\begin{aligned}U &= 10\text{ V} \\ R_1 &= 10\,\Omega \\ R_2 &= 20\,\Omega \\ R_3 &= 30\,\Omega \\ R_4 &= 40\,\Omega\end{aligned}$$

$$I_{R1} = ?$$

$$U_{R4} = ?$$



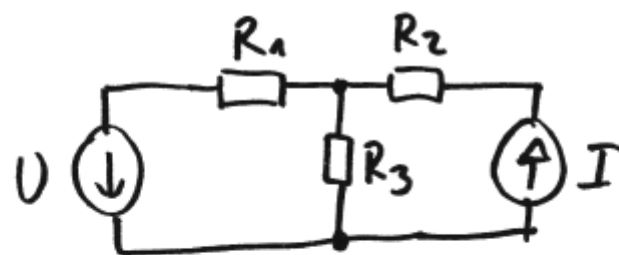
$$U = 10\text{V}$$

$$R_1 = 10\Omega, R_2 = 20\Omega, R_3 = 30\Omega, R_4 = 40\Omega$$

$$U_{R_4} = ?$$

$$I_{R_4} = ?$$

13.)



$$U_{R3} = ?$$

$$I_{R3} = ?$$

$$U = 10V$$

$$I = 50mA$$

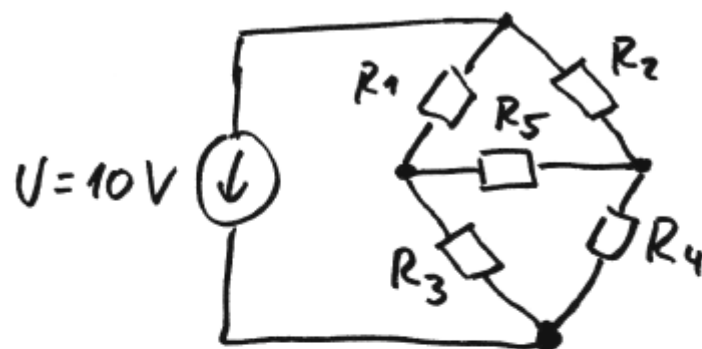
$$R_1 = 10\Omega$$

$$R_2 = 20\Omega$$

$$R_3 = 30\Omega$$

Pozn.: příklady č. 14 a 15 byly přeřazeny do jiného cvičení

16.)



a)

$$R_1 = 10 \Omega$$

$$R_2 = 20 \Omega$$

$$R_3 = 30 \Omega$$

$$R_4 = 40 \Omega$$

$$R_5 = 50 \Omega$$

b)

$$R_1 = 10 \Omega$$

$$R_2 = 20 \Omega$$

$$R_3 = 30 \Omega$$

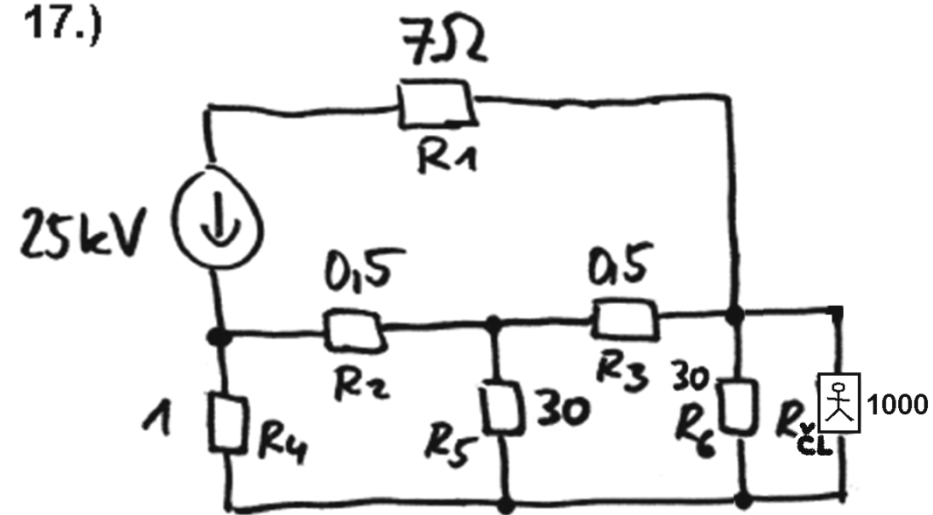
$$R_4 = 60 \Omega$$

$$R_5 = 100 \Omega$$

$$? \quad U_{R5} = ?$$

$$I_{R5} = ?$$

17.)



$$I_{R_{CL}} = ?$$