

11.4. METODA SUPERPOZICIJE

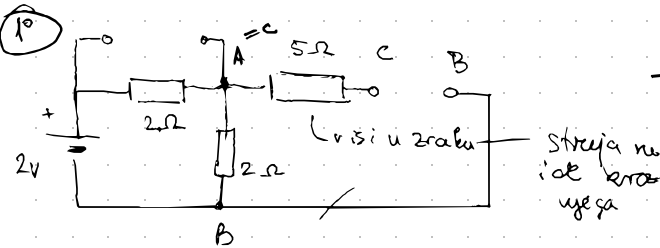
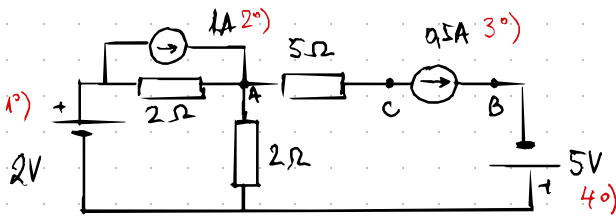
"jednom uganimo, gledamo drugi"

Primer 19/20.) (12.)

$U_{CB} = ?$

Strujni izvor: postoji nupa

Naponski izvor: postoji žica

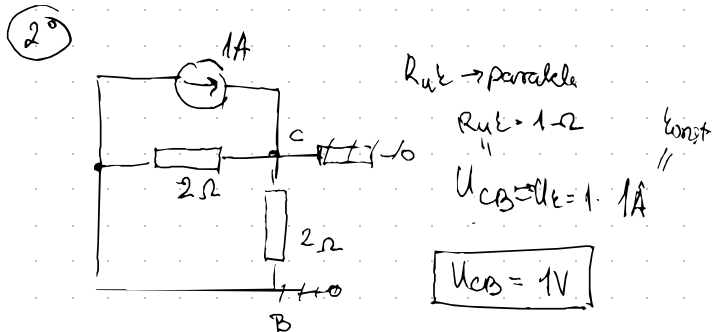
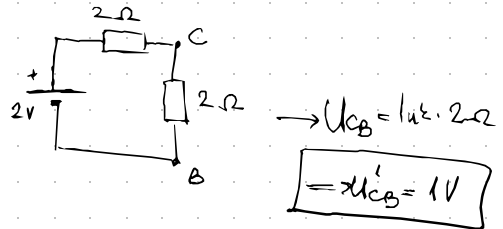


— budući da je struja kroz (5Ω) (odnosno C) $\Rightarrow 0$,
guda C možemo prenijeti na prije otpornika jer on nije bitan $\rightarrow \phi_A = \phi_C$

Tražimo $U_{CB} \Rightarrow \nabla$ bitan je predznak

$$\phi_C - \phi_B = U_{CB} \rightarrow \phi_C > \phi_B$$

* možemo preko $I_{uk} = \frac{2}{4} = \frac{1}{2}A$
ili preko naponskog dijela



$R_{uk} \rightarrow$ paralela

$$R_{uk} = 1\Omega$$

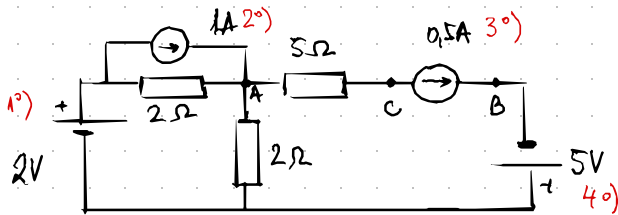
$$U_{CB} = U_k = 1 \cdot 1A$$

$$U_{CB} = 1V$$

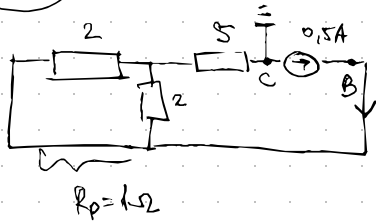
2. način — možemo gramat struju

$$I_2 = I_{uk} \cdot \frac{2}{2+2} = 1 \cdot \frac{1}{2} = \frac{1}{2}A$$

$$U_{CB} = \frac{1}{2} \cdot 2 = 1V$$



3°



$$R_{uk} = 6\Omega$$

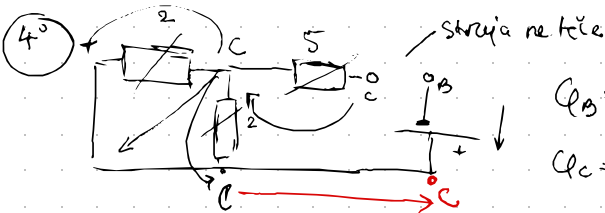
$$U_{uk} = R_{uk} \cdot I_{uk} = 0,5 \cdot 6$$

$$U_{uk} = 3V$$

ovdje paziti na predznak!

$$\varphi_C - \varphi_B = -3V$$

$$U_{CB}^{II} = -3V$$



$$\varphi_B = 0V$$

$$\varphi_C = 5V$$

$$\varphi_C - \varphi_B = U_{CB}^{IV} = 5V$$

$$U_{CB} = U_{CB}^I + U_{CB}^{II} + U_{CB}^{III} + U_{CB}^{IV} = 4V$$