

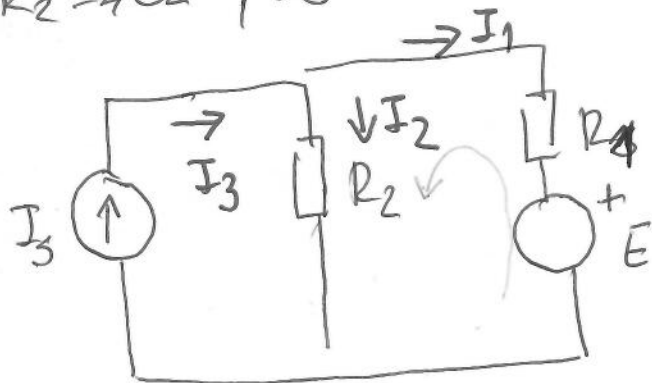
$$I_1 = \frac{-E_1 + R_3 I_3}{R_1 + R_2} = \frac{-18 + 4 \cdot 3}{6} = \frac{-6}{6} = -1 \text{ A} \quad (24)$$

$$I_2 = \frac{-22 + 4 \cdot 3}{5} = \frac{-22 + 12}{5} = -2 \text{ A}$$

PROVERA: UBAČITI U I K. Z, ČESTO NAOLTAČU

$$I_1 + I_2 + I_3 = -1 - 2 + 3 = \underline{\underline{0}}$$

ZADATAK 3: Izračunati struję kroz otpornik  $R_2$  i  $R_3$  ako je  $E = 20 \text{ V}$ ,  $R_1 = 2 \Omega$ ,  $R_2 = 4 \Omega$ ,  $I_s = 10 \text{ A}$



$$\underline{\underline{I_3 = I_s}} \quad !!!$$

$I_1$  i  $I_2$  su nepoznate

I K. Z:  $I_s - I_1 - I_2 = 0 \Rightarrow I_2 = I_s - I_1$

II K. Z:  $E + R_1 I_1 - R_2 I_2 = 0$

$$20 + 2 I_1 - 4 (I_s - I_1) = 0$$

$$20 + 2 I_1 - 4 (10 - I_1) = 0$$

$$20 + 2 I_1 - 40 + 4 I_1 = 0$$

$$-20 + 6 I_1 = 0 \Rightarrow I_1 = \frac{20}{6} \text{ A}$$

$$I_2 = \left(10 - \frac{20}{6}\right) \text{ A} = \frac{40}{6} \text{ A}$$