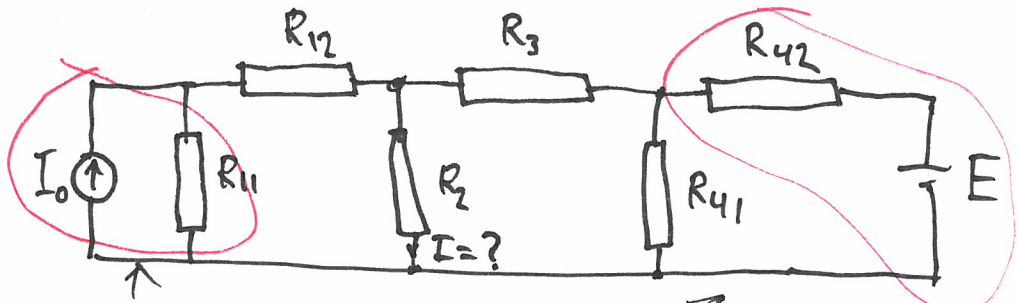
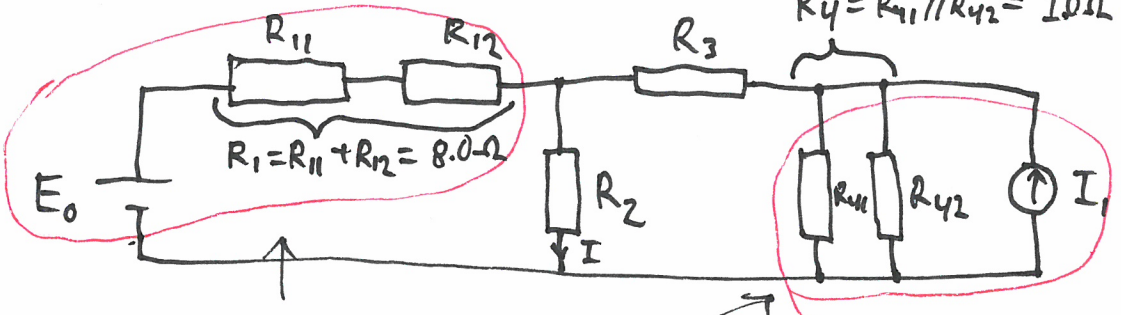


A 4.5) Lösning med källtransformation



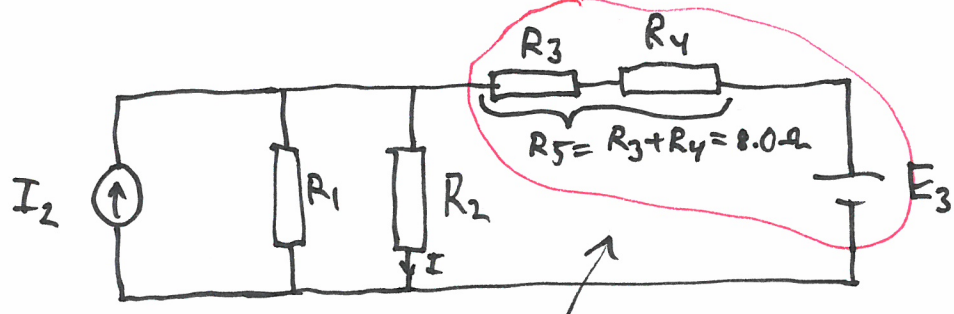
$I_0 = 2.0 \text{ A}$
 $E = 8.0 \text{ V}$
 $R_{11} = R_{12} = 4.0 \Omega$
 $R_2 = 8.0 \Omega$
 $R_3 = 7.0 \Omega$
 $R_{41} = R_{42} = 2.0 \Omega$

Transformera källor



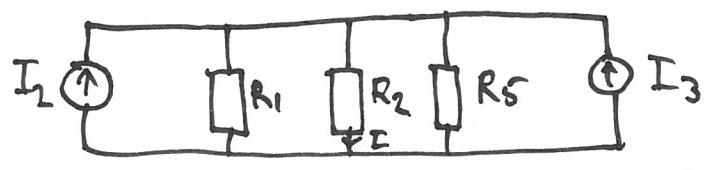
$I_1 = E/R_{42} = 4.0 \text{ A}$
 $E_0 = I_0 \cdot R_{11} = 8.0 \text{ V}$

Transformera källor



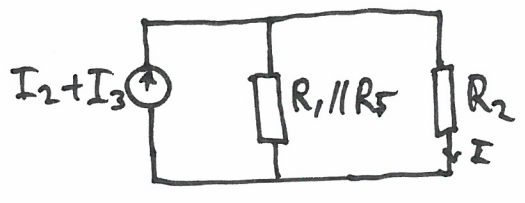
$E_3 = I_1 \cdot R_4 = 4.0 \text{ V}$
 $I_2 = E_0 / R_1 = 1.0 \text{ A}$

Transformera



$I_3 = E_3 / R_5 = \frac{1}{2} \text{ A}$

strömdelning:



$$I = \frac{(I_2 + I_3) R_1 // R_5}{R_2 + R_1 // R_5}$$

$$= \frac{1.5 \cdot 4}{8 + 4} = \frac{6}{12} = \frac{1}{2} \text{ A}$$

I = 0.5 A