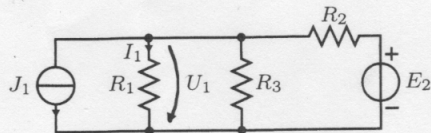


1.

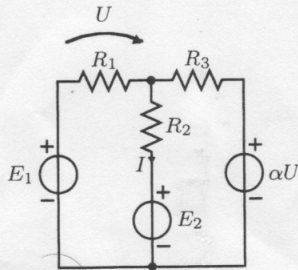


Laske Nortonin menetelmällä U_1 ja I_1 .

$$R_1 = 12 \Omega \quad R_2 = 4 \Omega \quad R_3 = 3 \Omega$$

$$J_1 = 1 \text{ A} \quad E_2 = 8 \text{ V}.$$

2.

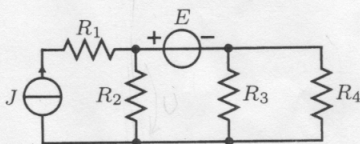


Laske virta I silmukkamenetelmän avulla.

$$R_1 = 1 \Omega \quad R_2 = 2 \Omega \quad R_3 = 3 \Omega$$

$$E_1 = 1 \text{ V} \quad E_2 = 2 \text{ V} \quad \alpha = 10.$$

3.



Laske vastuksen R_4 kuluttama teho.

$$J = 3 \text{ A} \quad E = 5 \text{ V} \quad R_1 = 1 \Omega$$

$$R_2 = 2 \Omega \quad R_3 = 3 \Omega \quad R_4 = 2 \Omega.$$