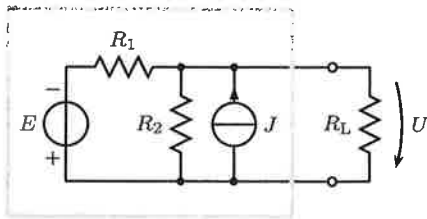


1.

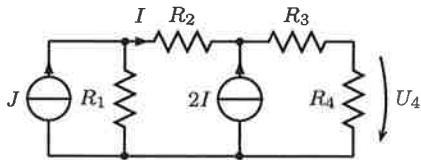


- a) Muodosta laatikon piiristä Théveninin lähde.
 b) Mikä on U , kun piiriin kytketään kuorma R_L ?

$$J = 12 \text{ A} \quad E = 4 \text{ V} \quad R_1 = 2 \Omega$$

$$R_2 = 8 \Omega \quad R_L = 24/5 \Omega.$$

2.

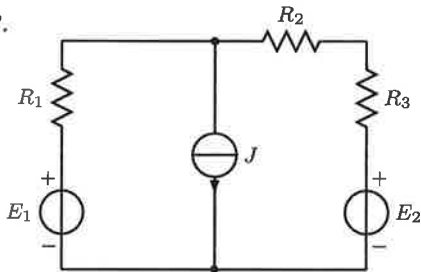


Laske jännite U_4 solmumenetelmän avulla.

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

$$R_4 = 1/6 \Omega \quad J = 2 \text{ A}.$$

3.



Laske resistanssin R_3 kuluttama teho P .

$$E_1 = 2 \text{ V} \quad E_2 = 3 \text{ V} \quad J = 2 \text{ A}$$

$$R_1 = 4 \Omega \quad R_2 = 5 \Omega \quad R_3 = 3 \Omega.$$