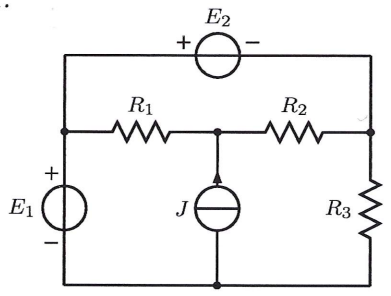
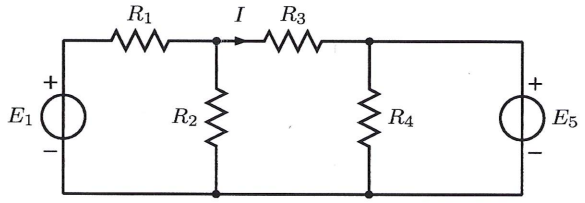
1.



Laske kerrostamismenetelmällä vastuksessa R_1 lämmöksi muuttuva teho P_{R_1}.

$E_1 = 1\,\mathrm{V}$ $E_2 = 2\,\mathrm{V}$ $J = 3\,\mathrm{A}$
$R_1 = 3\,\Omega$ $R_2 = 2\,\Omega$ $R_3 = 4\,\Omega$.

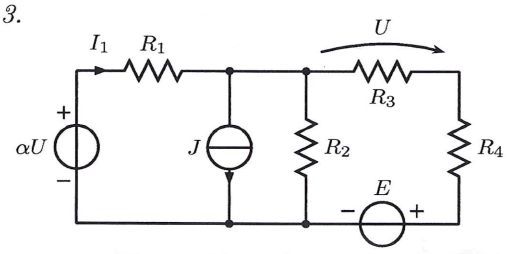
2.



Laske Théveninin menetelmällä vastuksen R_3 läpi kulkeva virta I.

$E_1 = 5\,\mathrm{V}$ $E_5 = 3\,\mathrm{V}$ $R_1 = 1\,\Omega$
$R_2 = 2\,\Omega$ $R_3 = 3\,\Omega$ $R_4 = 4\,\Omega$.

3.



Laske piirin virta I_1.

$E = 2\,\mathrm{V}$ $J = 1\,\mathrm{A}$ $\alpha = 2$
$R_1 = 1\,\Omega$ $R_2 = 2\,\Omega$ $R_3 = 3\,\Omega$
$R_4 = 1\,\Omega$.