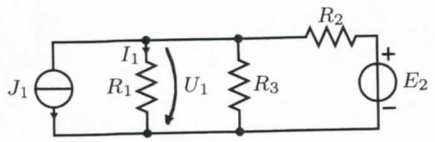
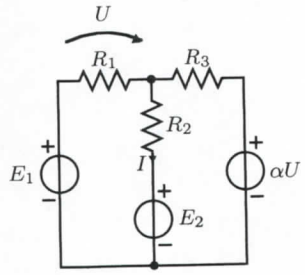
1.



Laske Nortonin menetelmällä U_1 ja I_1.

$R_1 = 12\,\Omega \quad R_2 = 4\,\Omega \quad R_3 = 3\,\Omega$
$J_1 = 1\,\mathrm{A} \quad E_2 = 8\,\mathrm{V}.$

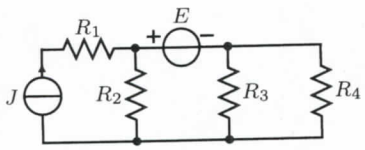
2.



Laske virta I silmukkamenetelmän avulla.

$R_1 = 1\,\Omega \quad R_2 = 2\,\Omega \quad R_3 = 3\,\Omega$
$E_1 = 1\,\mathrm{V} \quad E_2 = 2\,\mathrm{V} \quad \alpha = 10\,.$

3.



Laske vastuksen R_4 kuluttama teho.

$J = 3\,\mathrm{A} \quad E = 5\,\mathrm{V} \quad R_1 = 1\,\Omega$
$R_2 = 2\,\Omega \quad R_3 = 3\,\Omega \quad R_4 = 2\,\Omega.$