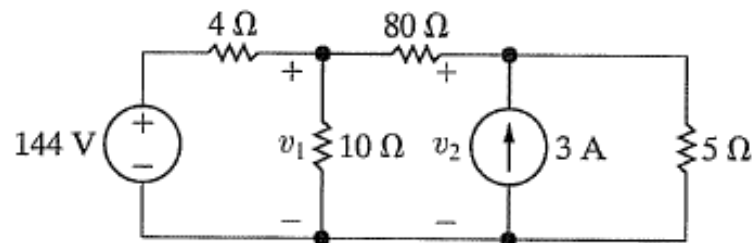


Tehtävä 1.

4.12 Use the node-voltage method to find v_1 and v_2 in the circuit in Fig. P4.12.
PSPICE

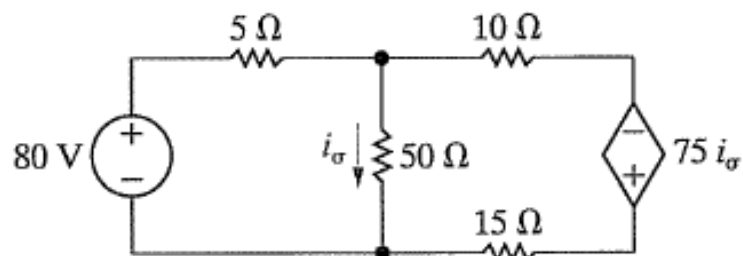
Figure P4.12



Tehtävä 2.

4.19 Use the node-voltage method to calculate the power delivered by the dependent voltage source in the circuit in Fig. P4.19.
PSPICE

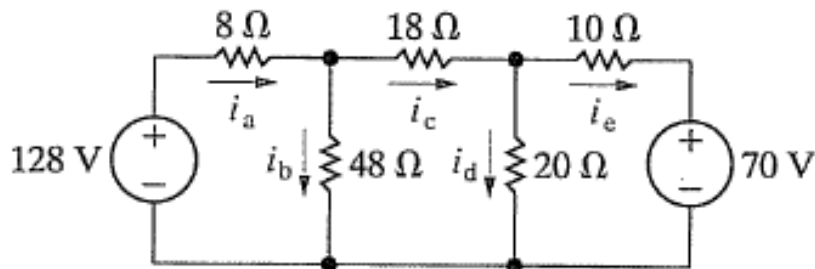
Figure P4.19



Tehtävä 3.

- Use the mesh-current method to find the branch currents $i_a - i_e$ in the in Fig. P4.10.
- Find the total power developed in the circuit.

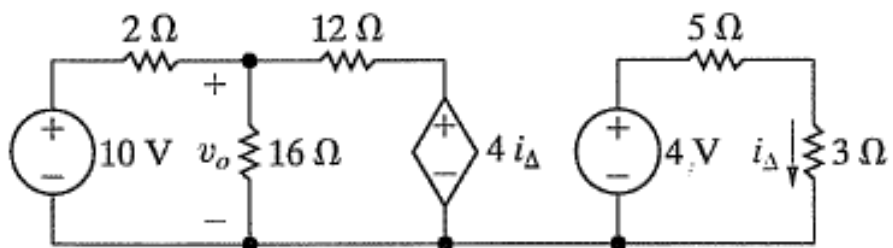
Figure P4.10



Tehtävä 4.

- 4.40** a) Use the mesh-current method to find v_o in the circuit in Fig. P4.40.
PSPICE
- Find the power delivered by the dependent source.

Figure P4.40



Tehtävä 5.

- 4.91 a) Use the principle of superposition to find the voltage v in the circuit of Fig. P4.91.
b) Find the power dissipated in the $20\ \Omega$ resistor.

Figure P4.91

