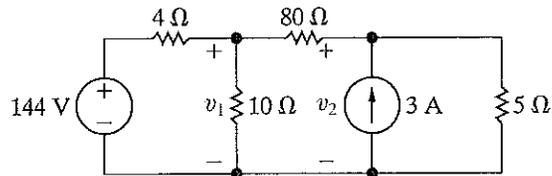


HOMEWORK 1

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

PSPICE

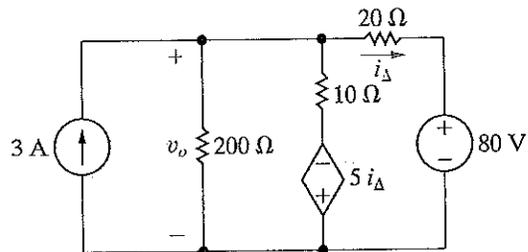
Figure P4.12



- 4.17** a) Use the node-voltage method to find v_o in the circuit in Fig. P4.17.
 b) Find the power absorbed by the dependent source.
 c) Find the total power developed by the independent sources.

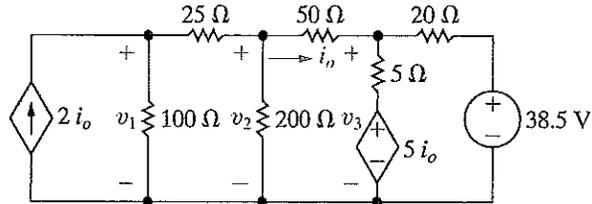
PSPICE

Figure P4.17



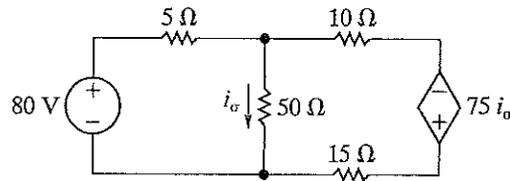
- 4.18** a) Find the node voltages v_1 , v_2 , and v_3 in the circuit in Fig. P4.18.
PSPICE
 b) Find the total power dissipated in the circuit.

Figure P4.18



- 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



- 4.20** a) Use the node-voltage method to find the total power developed in the circuit in Fig. P4.20.
PSPICE
 b) Check your answer by finding the total power absorbed in the circuit.

Figure P4.20

