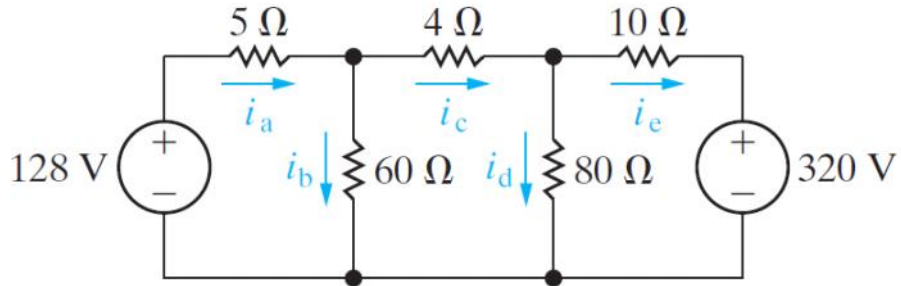


Exercise 4, Question 1

- 4.11** a) Use the node-voltage method to find the branch currents $i_a - i_e$ in the circuit shown in Fig. P4.11.

PSPICE
MULTISIM

Figure P4.11

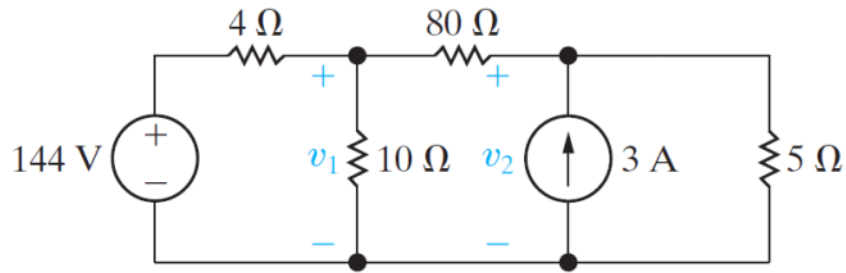


Exercise 4, Question 2

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

PSPICE
MULTISIM

Figure P4.12

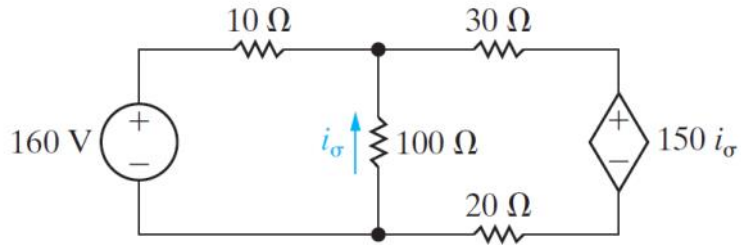


Exercise 4, Question 3

4.18 Use the node-voltage method to calculate the power delivered by the dependent voltage source in the circuit in Fig. P4.18.

PSPICE
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Figure P4.18

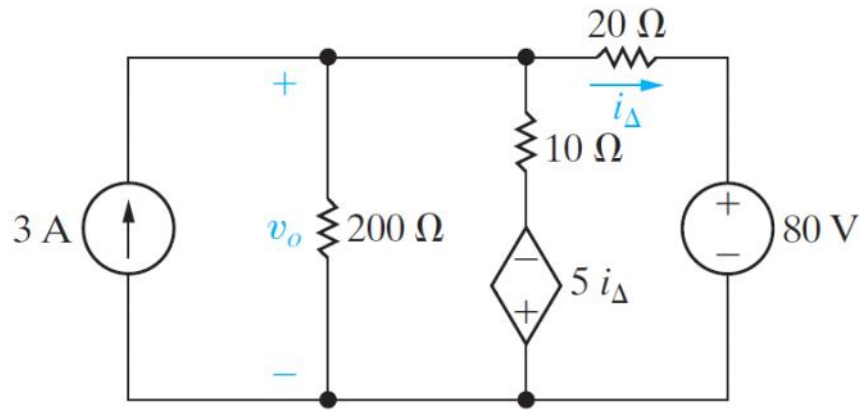


Exercise 4, Question 4

- 4.17** a) Use the node-voltage method to find v_o in the circuit in Fig. P4.17.

[PSPICE](#)

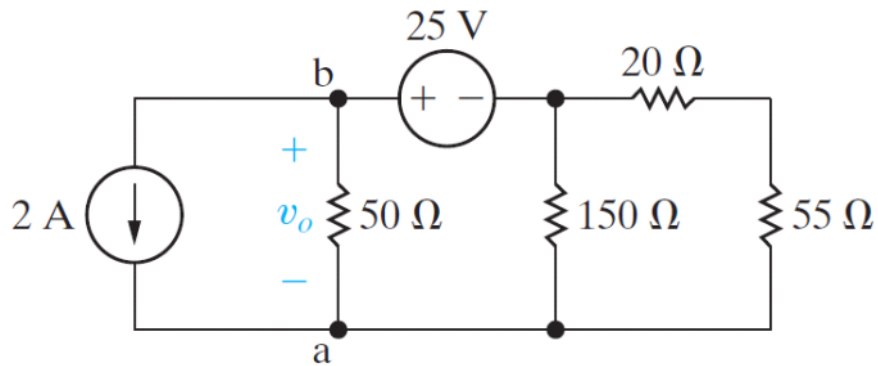
Figure P4.17



Exercise 4, Question 5

- 4.22** a) Use the node-voltage method to find v_o and the power delivered by the 2 A current source in the circuit in Fig. P4.22. Use node a as the reference node.

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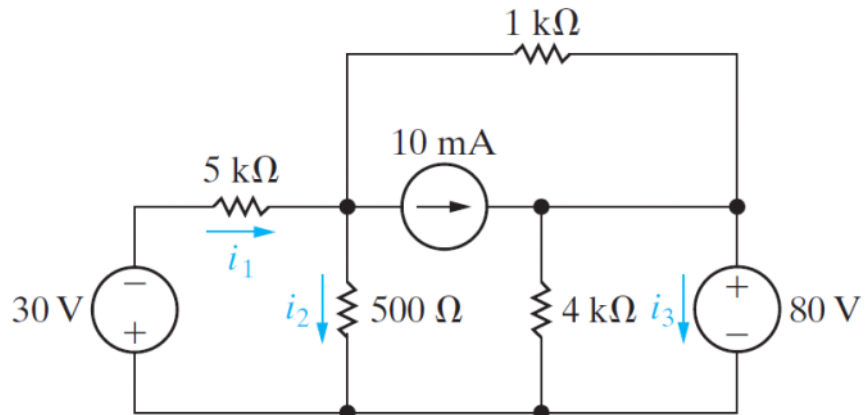


Exercise 4, Question 6

- 4.27** a) Use the node-voltage method to find the branch currents i_1 , i_2 , and i_3 in the circuit in Fig. P4.27.

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Figure P4.27

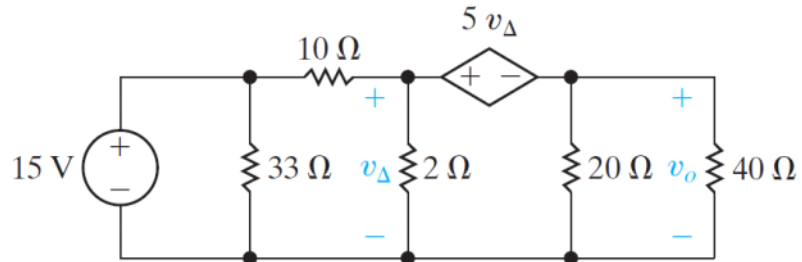


Exercise 4, Question 7

4.26 Use the node-voltage method to find v_o in the circuit in Fig. P4.26.

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Figure P4.26



Exercise 4, Question 8

- Use Node-voltage method to formulate a set of equations to find v_b and v_d .
- Arrange/rewrite the equations in a matrix format.

