

Started on Monday, 10 October 2016, 11:58 AM

State Finished

Completed on Sunday, 16 October 2016, 4:39 PM

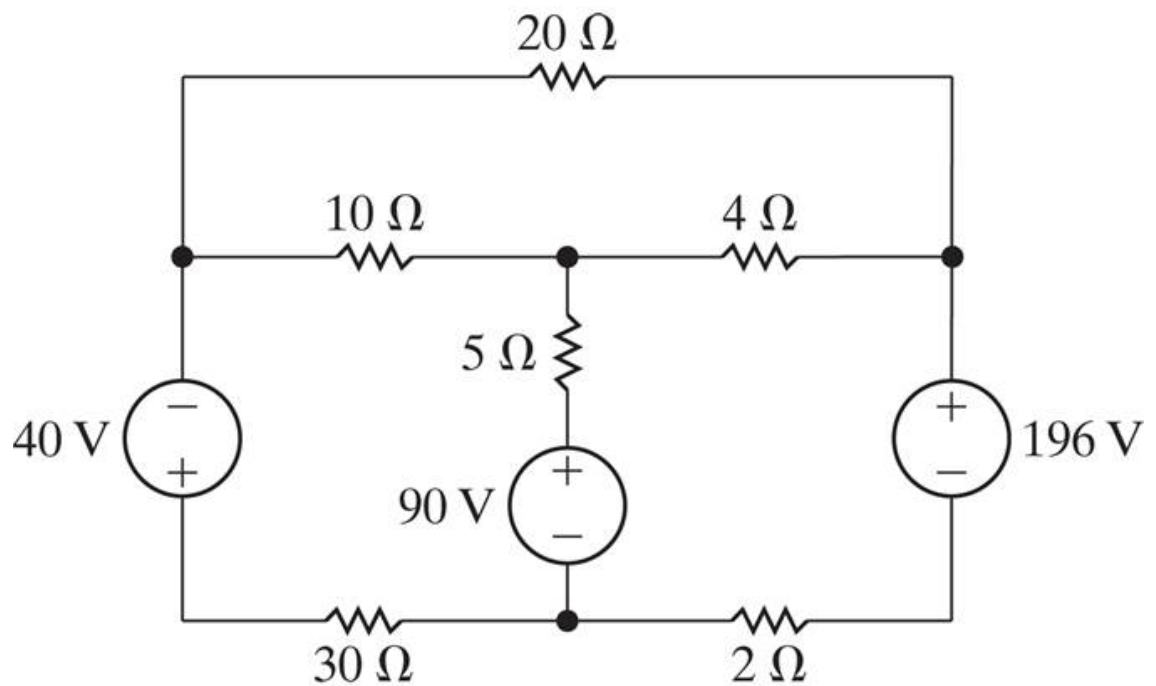
Time taken 6 days 4 hours

Grade 70.00 out of 100.00

Question 1

Correct

Mark 10.00 out of 10.00




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P4.36_10ed

Use the mesh-current method.

Find the current through the 196V source.

$I_{196V} =$  A

Numeric Answer

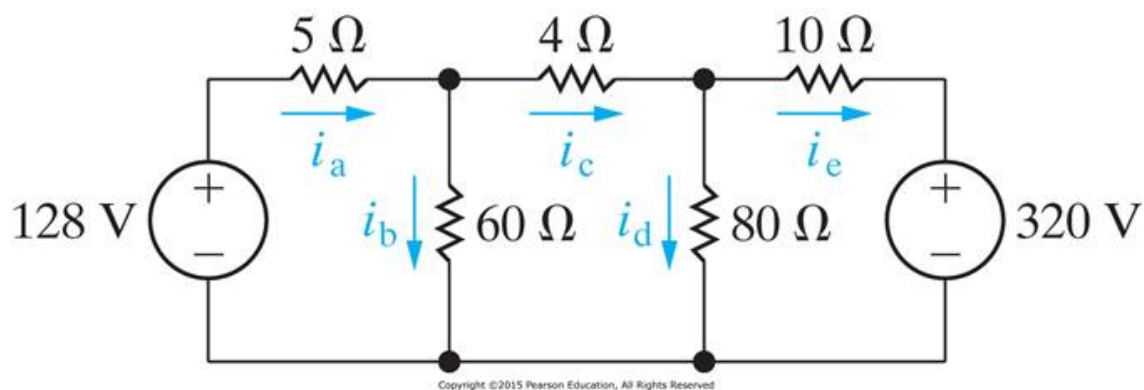
$I_{96V} = -13 \text{ A}$

Correct

Marks for this submission: 10.00/10.00.

Question 2

Incorrect

Mark 0.00 out of
10.00

P4.33_10ed

Use the mesh-current method.

Find the power absorbed/delivered by the 60Ω (Ohm), and the 80Ω (Ohm) resistors.

$$P_{60\Omega} = \boxed{3.2} \times \text{W}$$

$$P_{80\Omega} = \boxed{2.4} \times \text{W}$$

Numeric Answers

$$P_{60\text{W}} = 437.4 \text{ W}$$

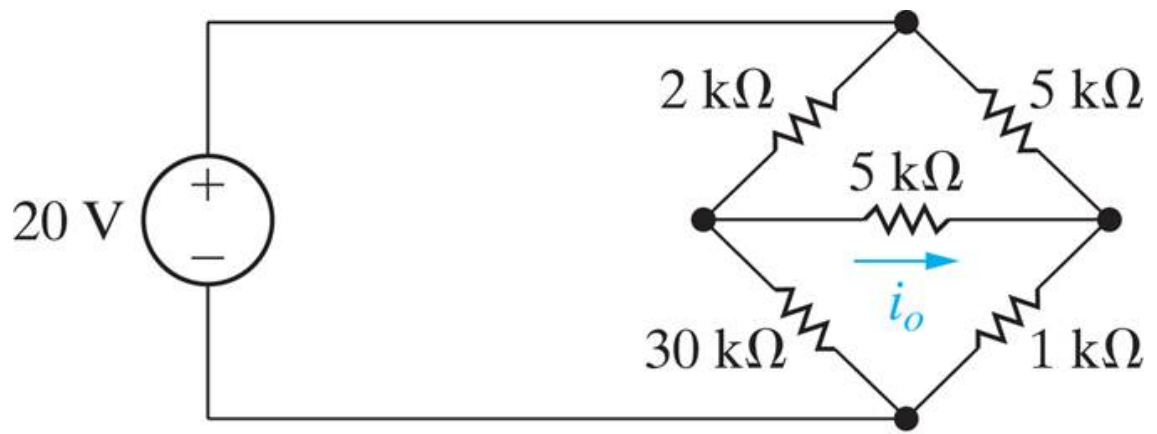
$$P_{80\text{W}} = 500 \text{ W}$$

Incorrect

Marks for this submission: 0.00/10.00.

Question 3

Correct

Mark 10.00 out of
10.00

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P4.35_10ed

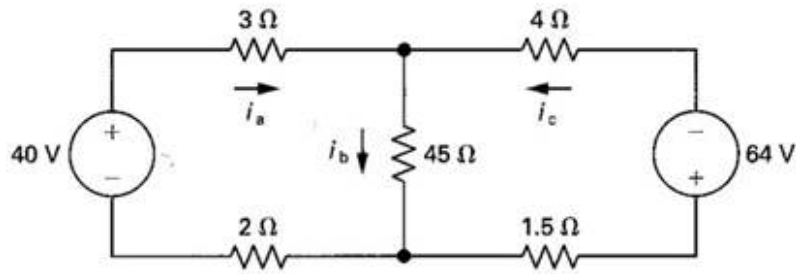
Use the mesh-current method.

Find the current i_o in the circuit. $i_o =$  mA (milli Amps)**Numeric Answers** $i_o = 2 \text{ mA}$ **Correct**

Marks for this submission: 10.00/10.00.

Question 4

Incorrect

Mark 0.00 out of
10.00

P4.30_6ed

Use the mesh-current method.

Find the currents i_a , i_b and i_c .

$$i_a = 13.33 \text{ A}$$

$$i_b = -3 \text{ A}$$

$$i_c = 16 \text{ A}$$

Numeric Answer

$$i_a = 9.80 \text{ A}$$

$$i_b = -0.2 \text{ A}$$

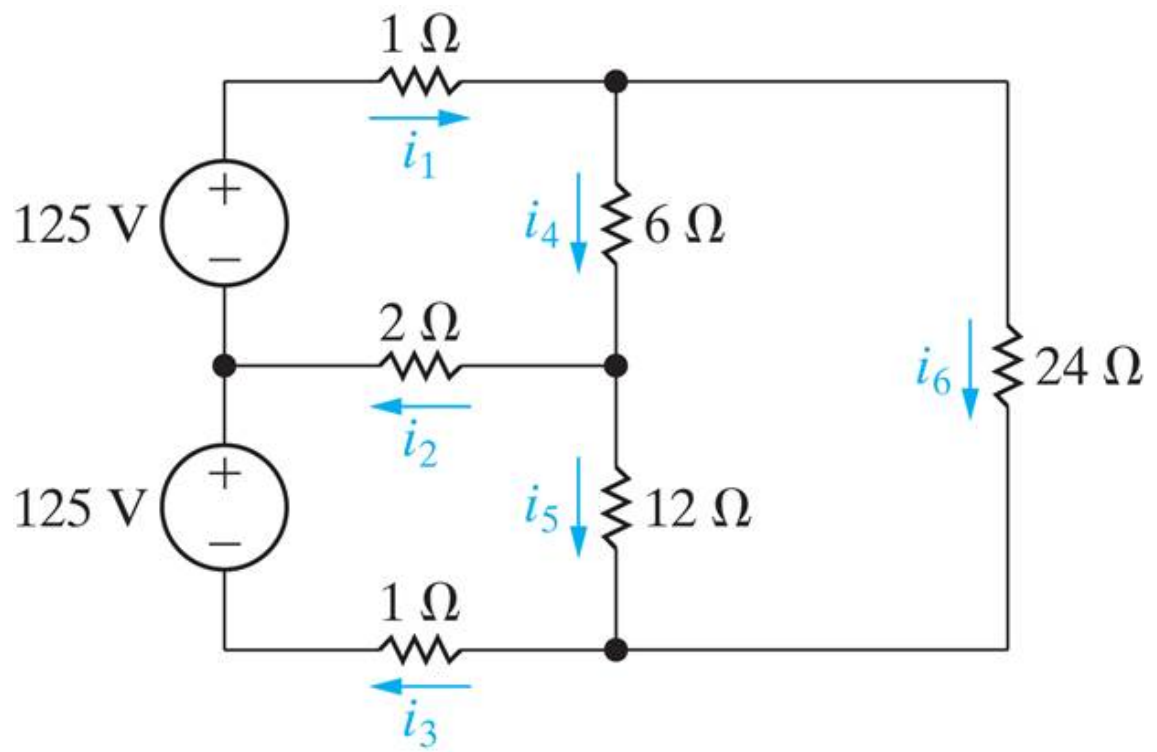
$$i_c = -10 \text{ A}$$

Incorrect

Marks for this submission: 0.00/10.00.

Question 5

Correct

Mark 10.00 out of
10.00

P4.34_10ed

Use the mesh-current method.

Find the power absorbed/delivered by the 24Ω (Ohm) resistor.

$$P_{24\Omega} = 1799.24 \text{ W}$$

Numeric Answers

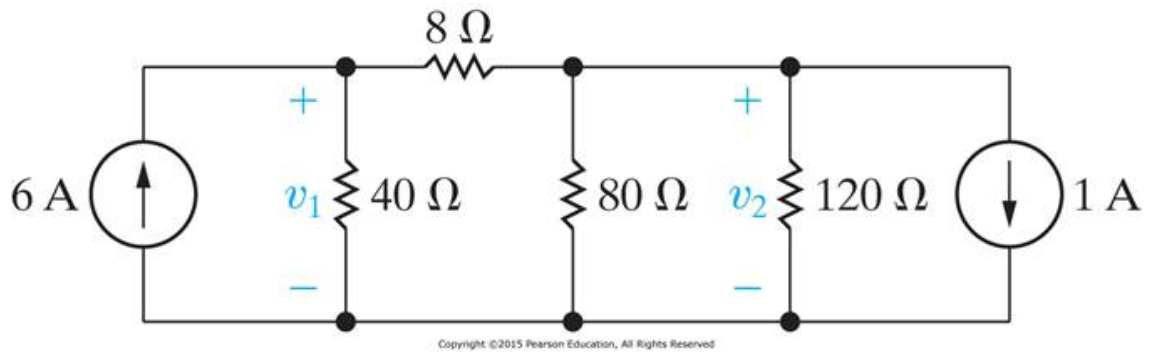
$$P_{24W} = 1,799.479 \text{ W absorbing}$$

Correct

Marks for this submission: 10.00/10.00.

Question 6

Correct

Mark 10.00 out of
10.00

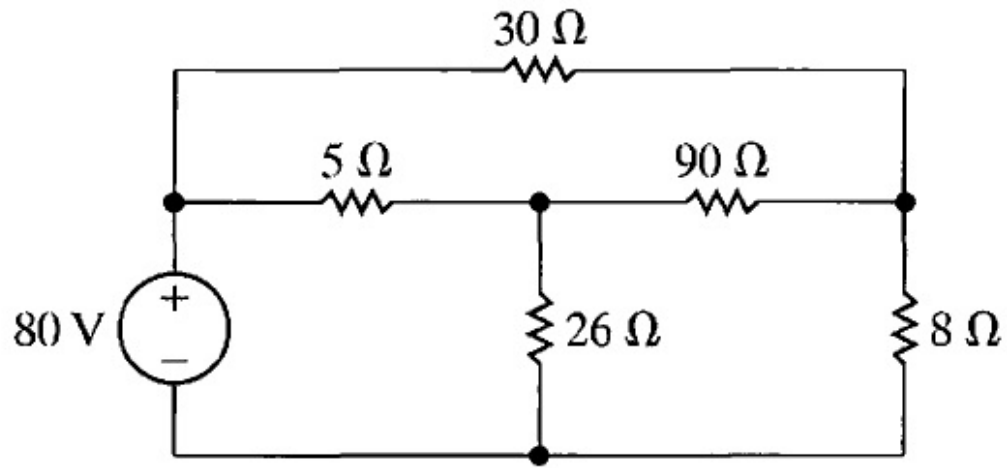
P4.44_10ed

Find the voltages v_1 and v_2 . $v_1 =$ \checkmark V $v_2 =$ \checkmark V**Numeric Answers** $v_1 = 120$ V $v_2 = 96$ V**Correct**

Marks for this submission: 10.00/10.00.

Question 7

Correct

Mark 10.00 out of
10.00

AP4.07_9ed

Use the mesh-current method.

a) Find the power absorbed/delivered by the 80 V source to the circuit shown.

$$P_{80V} = \boxed{-400} \checkmark \text{ W}$$

b) Find the power absorbed/delivered in the 8 Ω resistor.

$$P_{8\Omega} = \boxed{50} \checkmark \text{ W}$$

Numeric Answers

a) $P_{80V} = -400 \text{ W}$

b) $P_{8\Omega} = 50 \text{ W}$

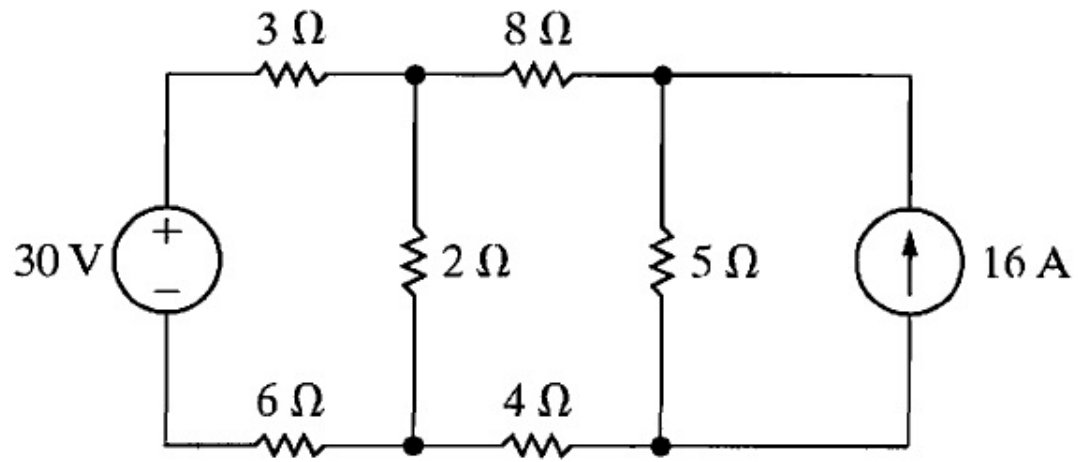
Correct

Marks for this submission: 10.00/10.00.

Question 8

Correct

Mark 10.00 out of 10.00



AP4.10_9ed

Use the mesh-current method to find the power dissipated in the 2 Ω (Ohm) resistor in the circuit shown

$$P_{2\Omega} = 72 \text{ W}$$

Numeric Answers

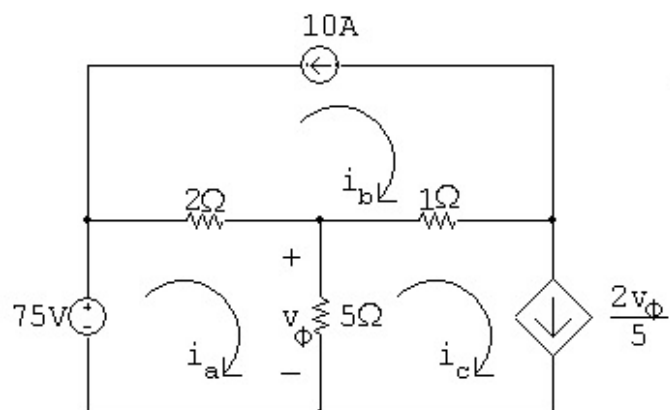
$$P_{2\Omega} = 72 \text{ W}$$

Correct


Marks for this submission: 10.00/10.00.

Question 9

Correct

Mark 10.00 out of
10.00

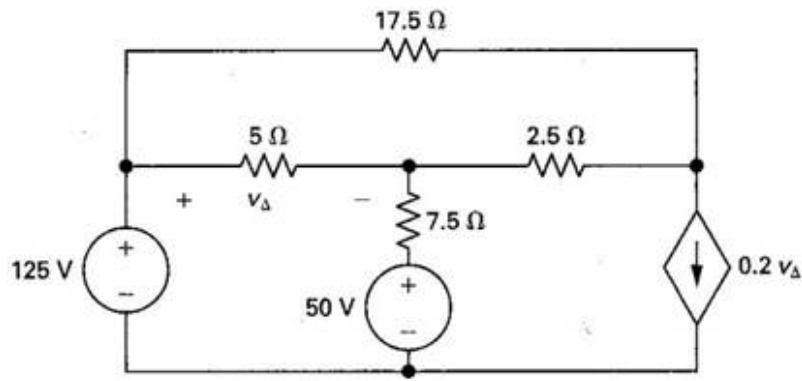
AP4.11_9ed

Use the mesh-current method to find the mesh current i_a in the circuit shown $i_a =$  A**Numeric Answer** $i_a = 15 \text{ A}$ **Correct**

Marks for this submission: 10.00/10.00.

Question 10

Not answered

Mark 0.00 out of
10.00

P4.34_6ed

a) Find the current through the dependent current source $0.2 v_\Delta$.

$$0.2 v_\Delta = \boxed{} \times \text{A}$$

b) Find the power absorbed/delivered by the dependent current source.

$$P_{0.2V_\Delta} = \boxed{} \times \text{W}$$

Numeric Answera) $0.2 v_D = 9.6 \text{ A}$ b) $P_{0.2VD} = 595.2 \text{ W}$ absorbed