

Started on Monday, 17 October 2016, 12:14 AM

State Finished

Completed on Monday, 17 October 2016, 12:15 AM

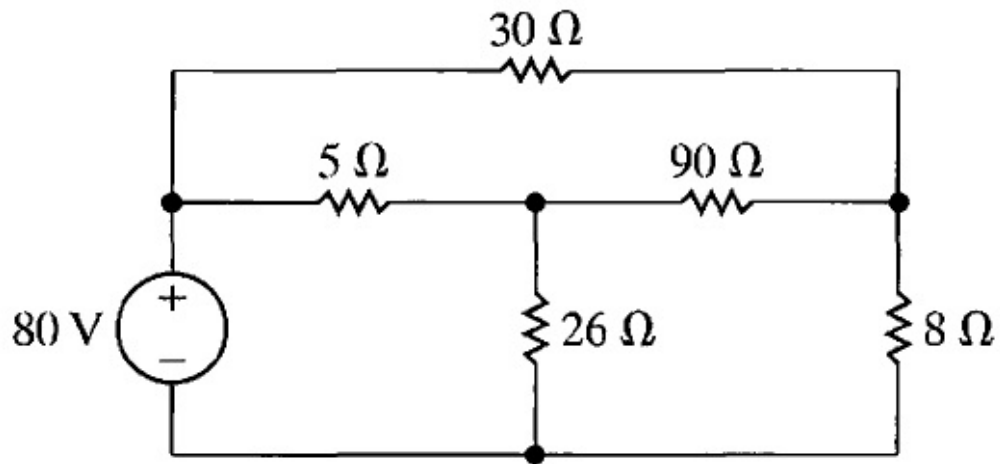
Time taken 32 secs

Grade 100.00 out of 100.00

Question 1

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.

$P_{80V} =$ $\checkmark \text{ W}$

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

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

Numeric Answers

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

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

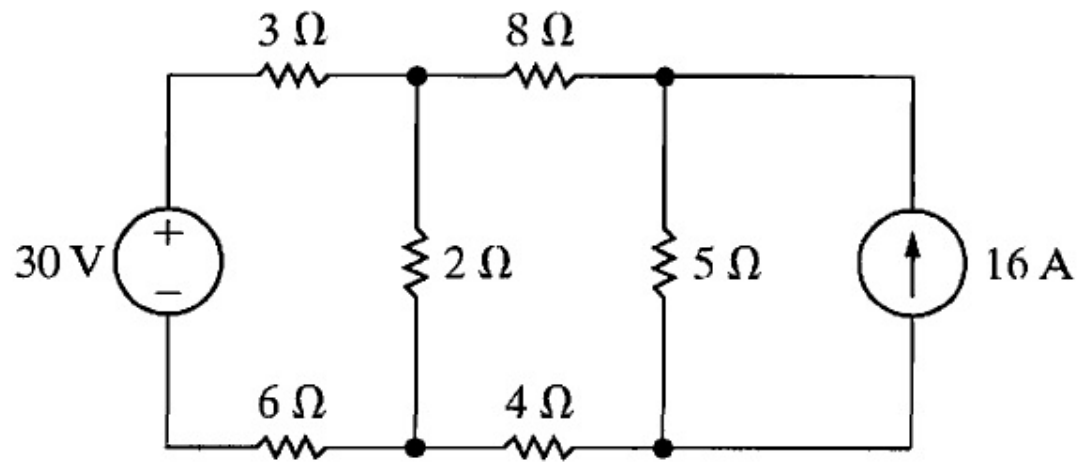
Correct

Marks for this submission: 10.00/10.00.

Question 2

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

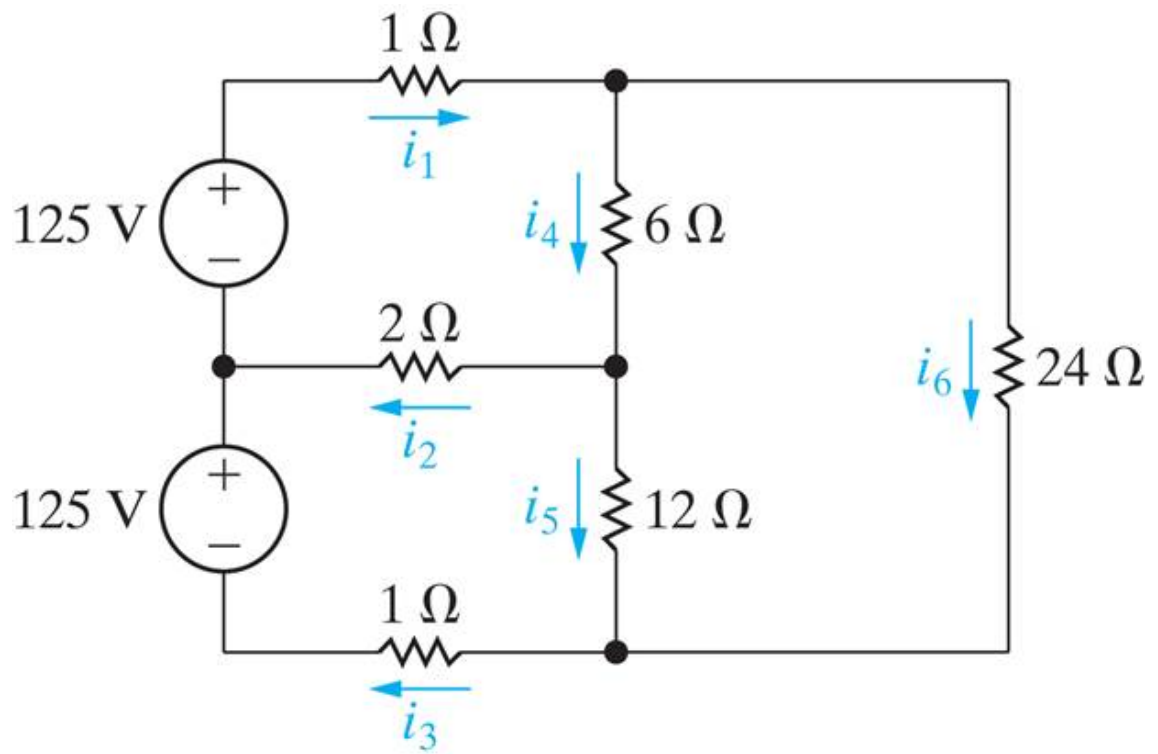
$$P_{2\Omega} = 72 \text{ W}$$

Correct

Marks for this submission: 10.00/10.00.

Question 3

Correct

Mark 10.00 out of
10.00

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P4.34_10ed

Use the mesh-current method.

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

$$P_{24\Omega} = 1799.47 \text{ W}$$

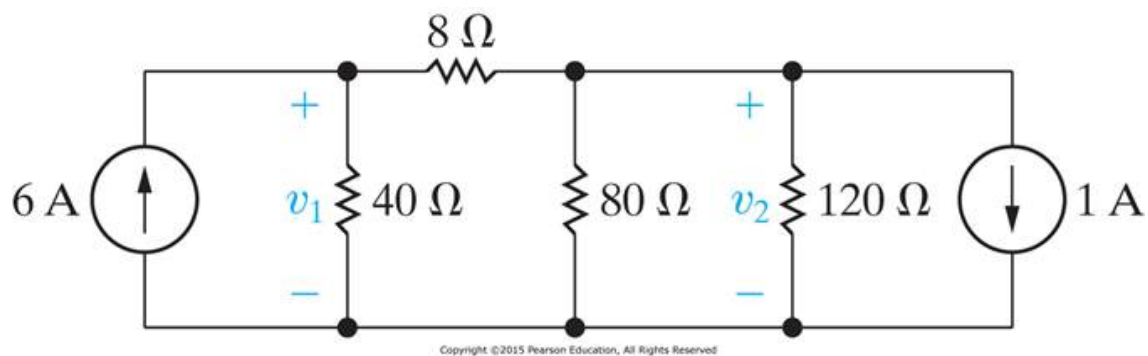
Numeric Answers $P_{24W} = 1,799.479 \text{ W}$ absorbing**Correct**

Marks for this submission: 10.00/10.00.

Question 4

Correct

Mark 10.00 out of 10.00



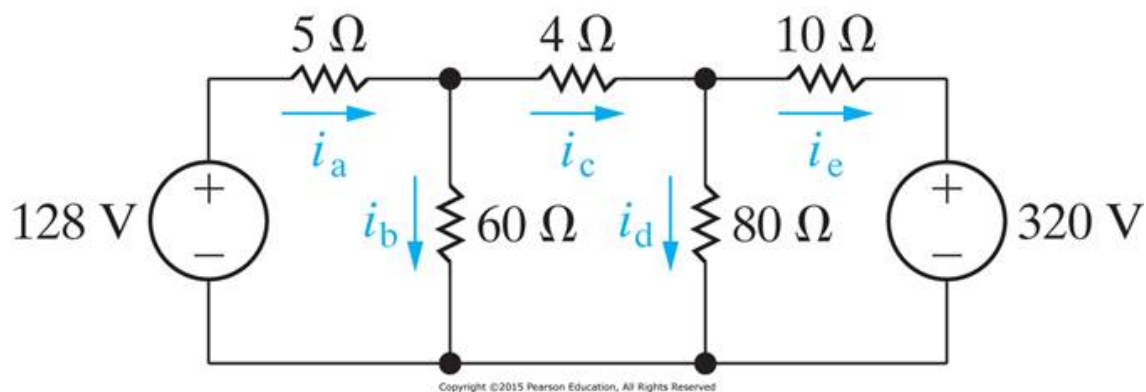
P4.44_10ed

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

Marks for this submission: 10.00/10.00.

Question 5

Correct

Mark 10.00 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.

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

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

Numeric Answers

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

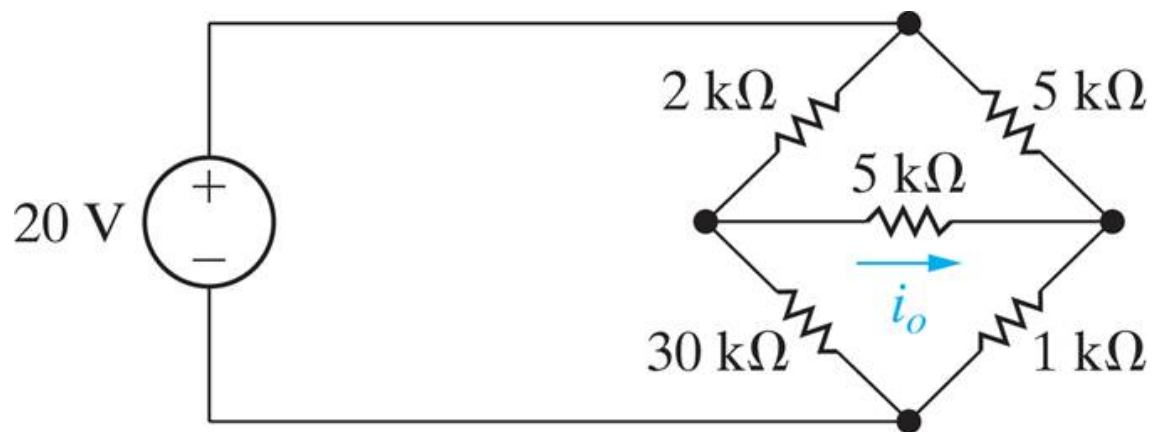
$$P_{80W} = 500 \text{ W}$$

Correct

Marks for this submission: 10.00/10.00.

Question 6

Correct

Mark 10.00 out of
10.00

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P4.35_10ed

Use the mesh-current method.

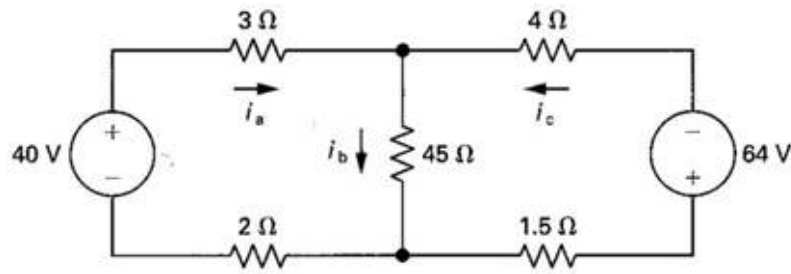
Find the current i_o in the circuit. $i_o =$  mA (milli Amps)**Numeric Answers** $i_o = 2 \text{ mA}$ **Correct**

Marks for this submission: 10.00/10.00.

Question 7

Correct

Mark 10.00 out of 10.00



P4.30_6ed

Use the mesh-current method.

Find the currents i_a , i_b and i_c .

$$i_a = 9.8 \text{ A}$$

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

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

Numeric Answer

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

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

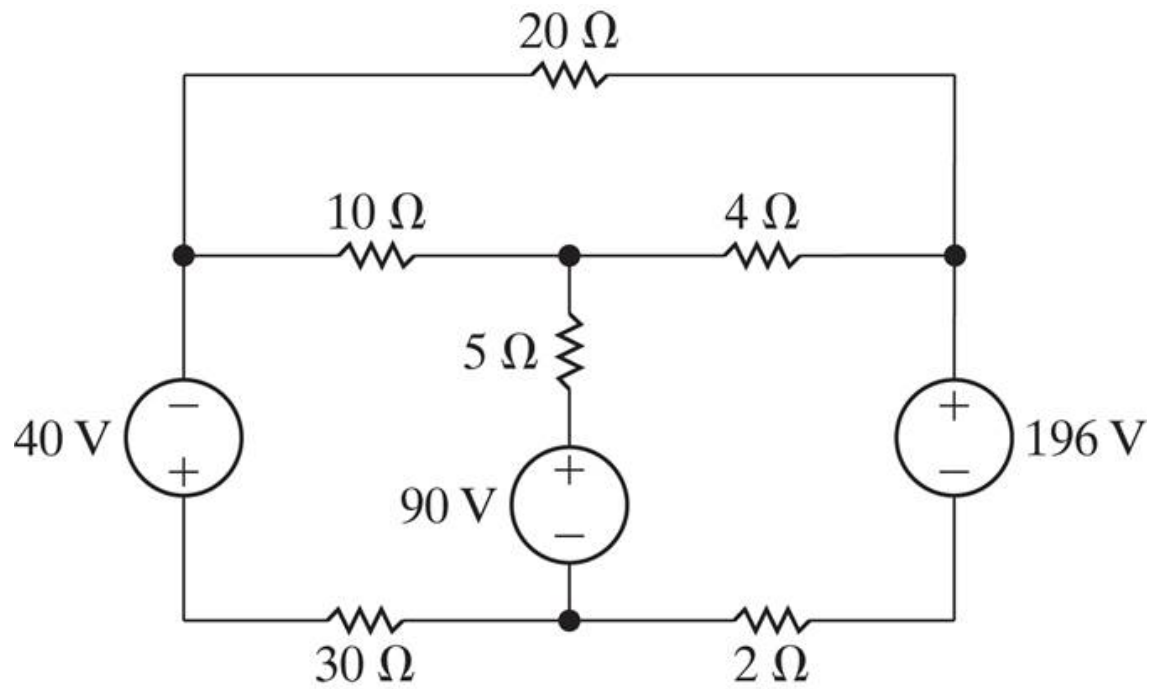
$$i_c = -10 \text{ A}$$

Correct

Marks for this submission: 10.00/10.00.

Question 8

Correct

Mark 10.00 out of
10.00

P4.36_10ed

Use the mesh-current method.

Find the current through the 196V source.

$$I_{196V} = -13 \text{ A}$$

Numeric Answer

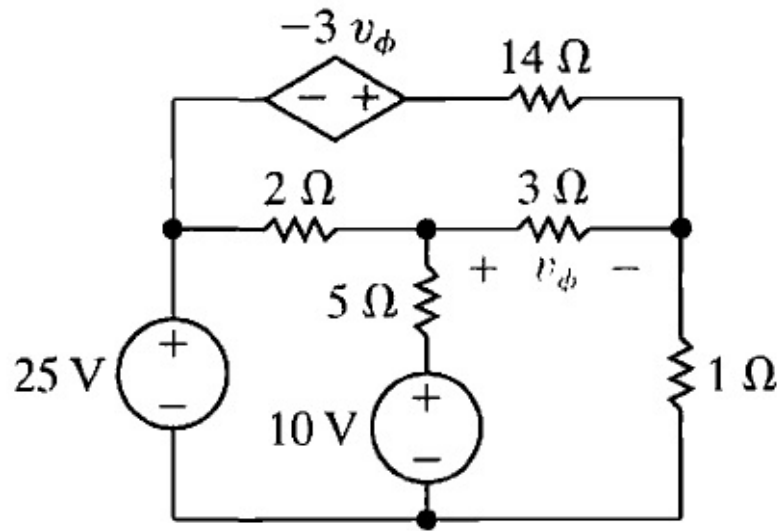
$$I_{96V} = -13 \text{ A}$$

Correct

Marks for this submission: 10.00/10.00.


Question 9

Correct

Mark 10.00 out of
10.00

AP4.08_9ed

Use the mesh-current method to find how much power is being absorbed/delivered by the dependent voltage source

$P_{\text{dep}} =$  W

Numeric Answers

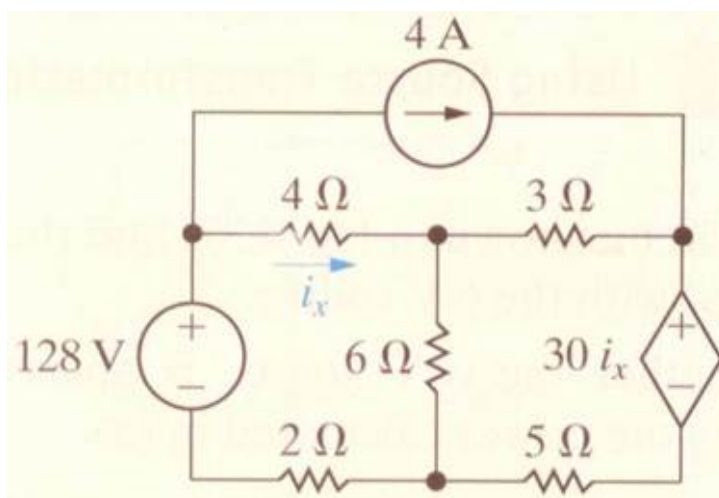
$P = -36 \text{ W}$ delivering

Correct

Marks for this submission: 10.00/10.00.

Question 10

Correct

Mark 10.00 out of
10.00

AP4.14_9ed

Find the power absorbed/delivered by the 4 A current source in the circuit shown

$$P_{4A} = \boxed{-40} \checkmark \text{ W}$$

“+” = absorbed “-” = delivered

Numeric Answer

$$P_{4A} = -40 \text{ W delivering}$$

Correct

Marks for this submission: 10.00/10.00.