

Started on Friday, 16 September 2016, 6:42 PM

State Finished

Completed on Friday, 16 September 2016, 8:11 PM

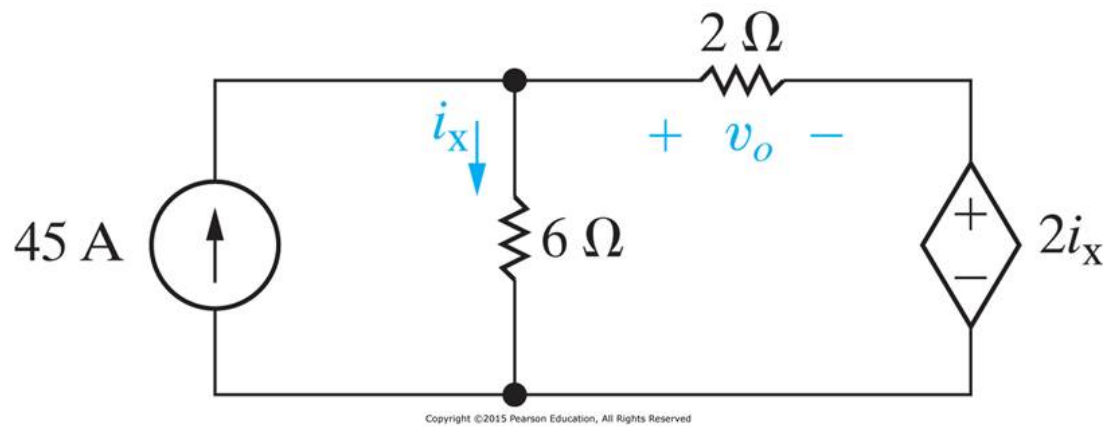
Time taken 1 hour 29 mins

Grade 100.00 out of 100.00

Question 1

Correct

Mark 10.00 out of 10.00



Copyright ©2015 Pearson Education, All Rights Reserved

P2.32_10ed

a) Find v_o .

$v_o =$ ✓ Volts

b) Find the total power supplied in the circuit.

$P_{\text{total}} =$ ✓ Watts

Numeric Answer

a) $v_o = 60V$

b) $P_{\text{del, total}} = -4,050 \text{ Watts delivered}$

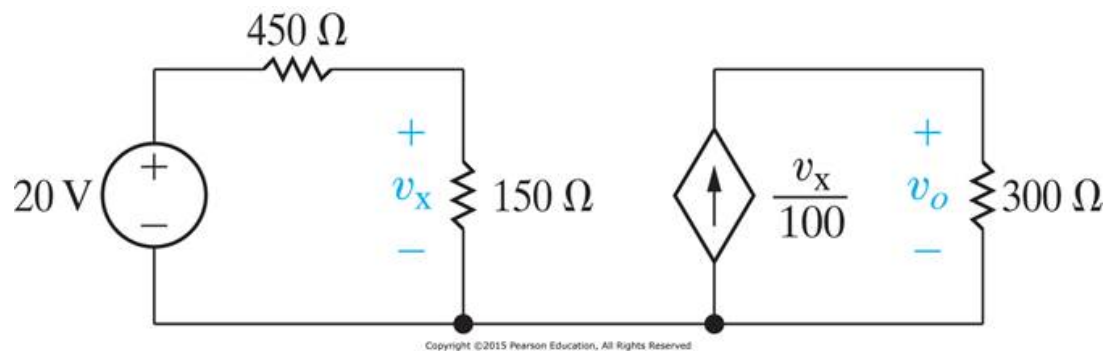
Correct

Marks for this submission: 10.00/10.00.

Question 2

Correct

Mark 10.00 out of 10.00



P2.33_10ed

a) Find v_o .

$$v_o = 15 \text{ Volts}$$

b) Find the total power supplied in the circuit.

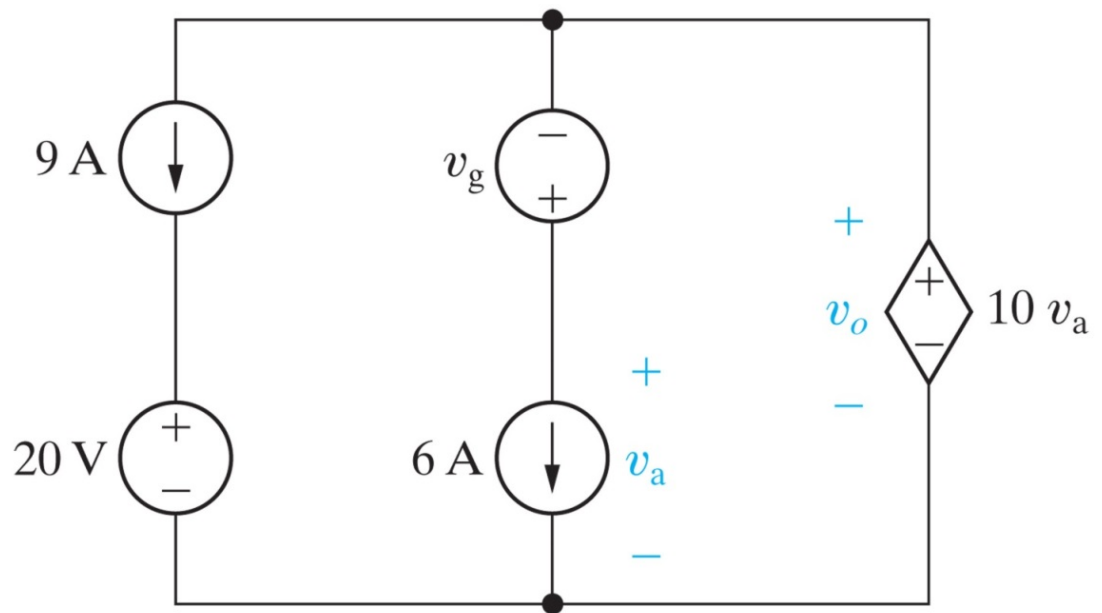
$$P_{\text{total}} = 1.416 \text{ Watts}$$

Numeric Answera) $v_o = 15\text{V}$ b) $P_{\text{abs,total}} = 1.417 \text{ Watts absorbed}$ **Correct**

Marks for this submission: 10.00/10.00.

Question 3

Correct

Mark 10.00 out of
10.00

Copyright ©2015 Pearson Education, All Rights Reserved

P2.10_10ed

Given that $v_o = 5$ Volts.Find the total power delivered in the circuit. $P_{\text{del,total}} = ??$ WAnswer: 

Numeric Answer

 $P_{\text{del,total}} = -210$ Watts

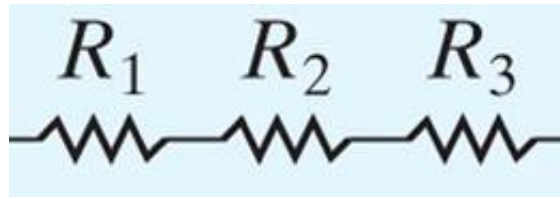
The correct answer is: -210

Correct

Marks for this submission: 10.00/10.00.

Question 4

Correct

Mark 10.00 out of
10.00

CQ3.01

Given:

$$R_1 = 272586 \Omega \text{ (Ohms)} \quad R_2 = 606509 \Omega \text{ (Ohms)} \quad R_3 = 38397 \Omega \text{ (Ohms)}$$

Find the equivalent resistance R_{Eq} .

$$R_{\text{Eq}} = ?? \Omega \text{ (Ohms)}$$

Answer: 

Calculated question

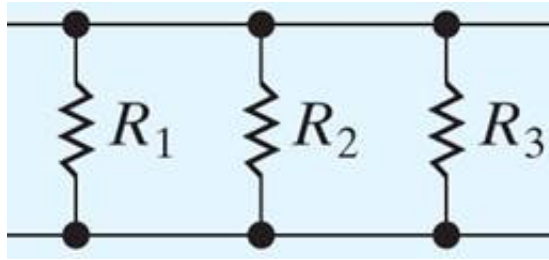
The correct answer is: 917492.00

Correct

Marks for this submission: 10.00/10.00.

Question 5

Correct

Mark 10.00 out of
10.00

CQ3.02

Given:

$$R_1 = 78901 \, \Omega \text{ (Ohms)} \quad R_2 = 551073 \, \Omega \text{ (Ohms)} \quad R_3 = 50892 \, \Omega \text{ (Ohms)}$$

Find the equivalent resistance R_{Eq} .

$$R_{\text{Eq}} = ?? \, \Omega \text{ (Ohms)}$$

Answer: 

Calculated question

The correct answer is: 29292.69

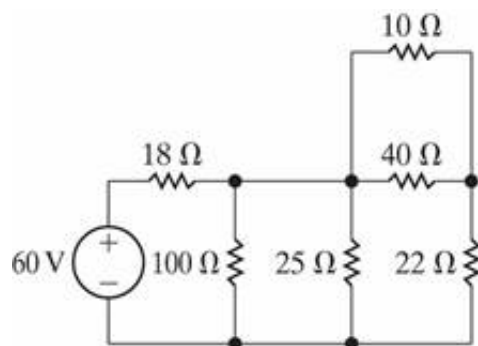
Correct

Marks for this submission: 10.00/10.00.

Question 6

Correct

Mark 10.00 out of 10.00



P3.04a_9ed

Find the equivalent resistance seen by the 60V voltage source.

$$R_{Eq} = ?? \text{ } \Omega \text{ (Ohms)}$$

Answer: 30

**Numeric Answer**

$$R_{Eq} = 30 \text{ } \Omega$$

The correct answer is: 30

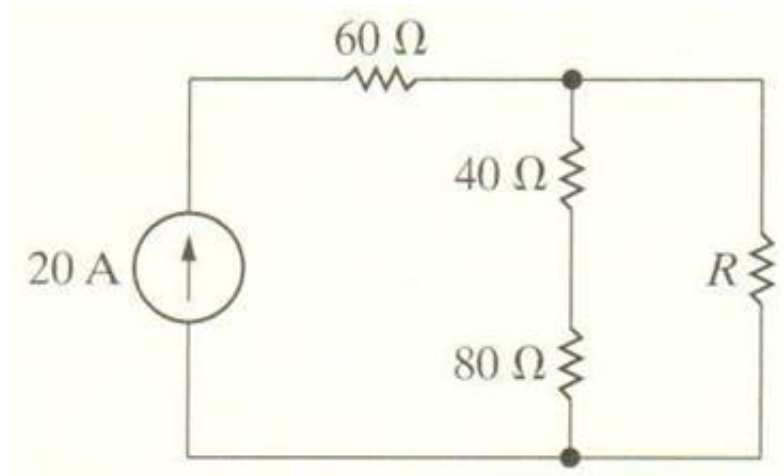
Correct

Marks for this submission: 10.00/10.00.

Question 7

Correct

Mark 10.00 out of 10.00



AP3.03_9ed

a) Find the value of R that will cause 4 A of current to flow through the 80 Ω resistor in the circuit.

$$R = 30 \checkmark \Omega \text{ (Ohm)}$$

b) How much power will the resistor R from part (a) need to dissipate?

$$P_R = 7680 \checkmark \text{ Watts}$$

c) How much power will the current source generate for the value of R from part (a)?

$$P_{20A} = -33600 \checkmark \text{ Watts}$$

“-” = “delivering” and “+” = “absorbing”

Numeric Answer

a) $R = 30 \Omega$

b) $P_R = 7680 \text{ W}$

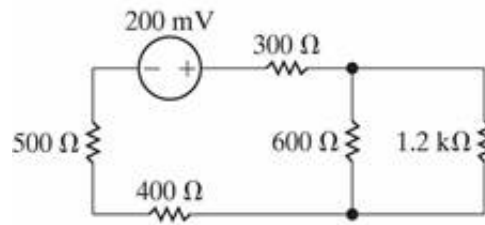
c) $P_{20A} = -33,600 \text{ W}$

Correct

Marks for this submission: 10.00/10.00.

Question 8

Correct

Mark 10.00 out of
10.00

P3.03c_9ed

Find the equivalent resistance seen by the 3 mA current source.

$$R_{Eq} = ?? \text{ } \Omega \text{ (Ohms)}$$

Answer: 1600

**Numeric Answer**

$$R_{Eq} = 1,600 \text{ } \Omega$$

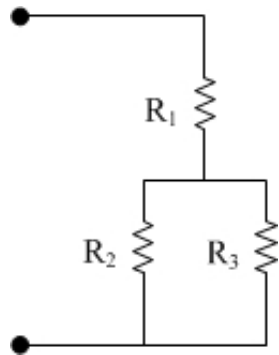
The correct answer is: 1600

Correct

Marks for this submission: 10.00/10.00.

Question 9

Correct

Mark 10.00 out of
10.00

CQ3.04

Given:

$$R_1 = 150094 \, \Omega \text{ (Ohms)} \quad R_2 = 368546 \, \Omega \text{ (Ohms)} \quad R_3 = 79635 \, \Omega \text{ (Ohms)}$$

Find the equivalent resistance R_{Eq} . $R_{Eq} = ?? \, \Omega \text{ (Ohms)}$ Answer: 

Calculated question

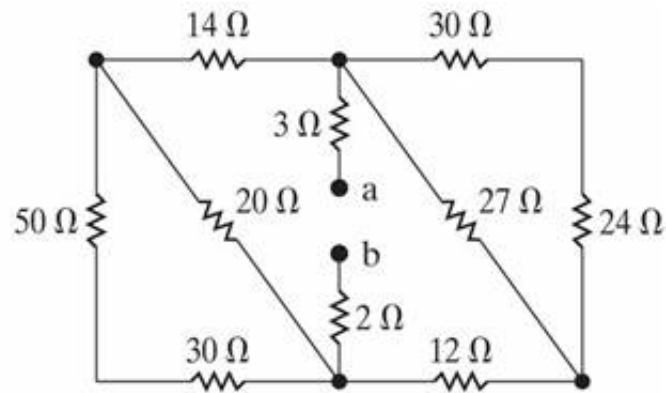
The correct answer is: 215579.06

Correct

Marks for this submission: 10.00/10.00.

Question 10

Correct

Mark 10.00 out of
10.00

P3.06c_9ed

Find the equivalent resistance seen looking into terminals a,b.

$$R_{Eq} = ??\ \Omega \text{ (Ohms)}$$

Answer: 20

**Numeric Answer**

$$R_{Eq} = 20\ \Omega$$

The correct answer is: 20

Correct

Marks for this submission: 10.00/10.00.