

**Started on** Tuesday, 13 September 2016, 12:03 PM

**State** Finished

**Completed on** Thursday, 15 September 2016, 12:46 PM

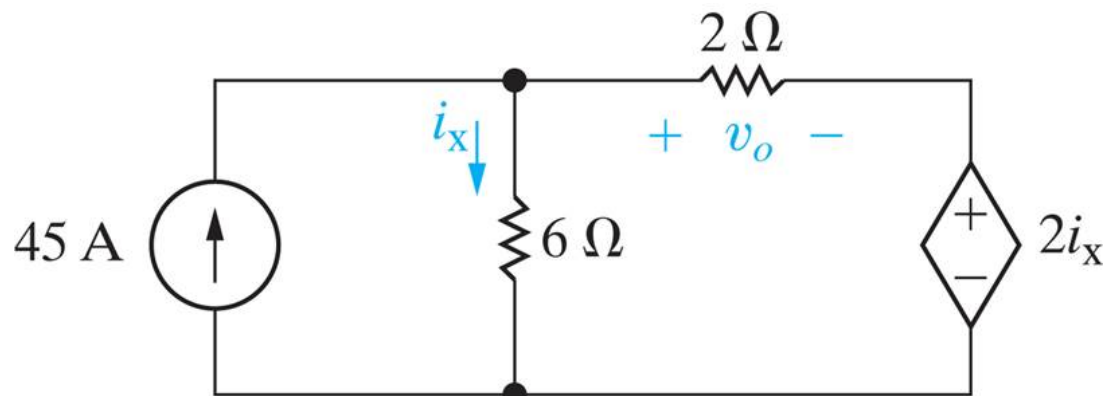
**Time taken** 2 days

**Grade** 100.00 out of 100.00

**Question 1**

Correct

Mark 10.00 out of 10.00



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)  $v_o = 60V$

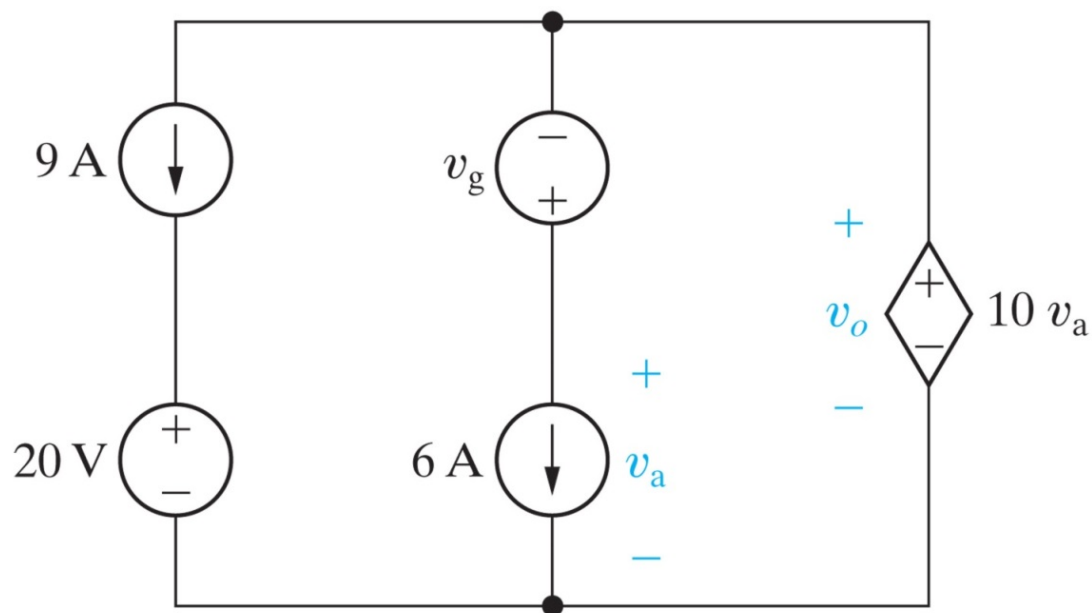
b)  $P_{\text{del, total}} = -4,050 \text{ Watts delivered}$

**Correct**

Marks for this submission: 10.00/10.00.

**Question 2**

Correct

Mark 10.00 out of  
10.00

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

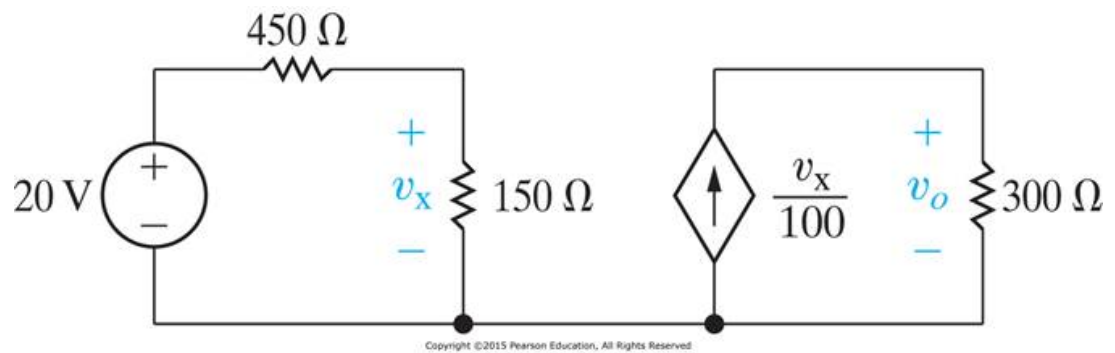
**Correct**

Marks for this submission: 10.00/10.00.

**Question 3**

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.

$$P_{\text{total}} = 1.4167 \text{ Watts}$$

**Numeric Answer**

a)  $v_o = 15\text{V}$

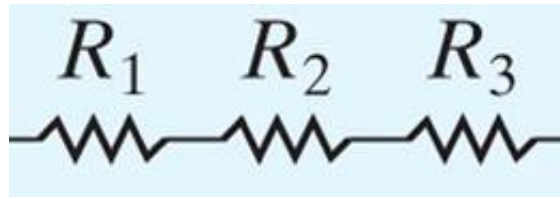
b)  $P_{\text{abs,total}} = 1.417 \text{ Watts absorbed}$

**Correct**

Marks for this submission: 10.00/10.00.

**Question 4**

Correct

Mark 10.00 out of  
10.00

CQ3.01

Given:

$$R_1 = 147561 \Omega \text{ (Ohms)} \quad R_2 = 146102 \Omega \text{ (Ohms)} \quad R_3 = 65755 \Omega \text{ (Ohms)}$$

Find the equivalent resistance  $R_{\text{Eq}}$ .

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

Answer: 

Calculated question

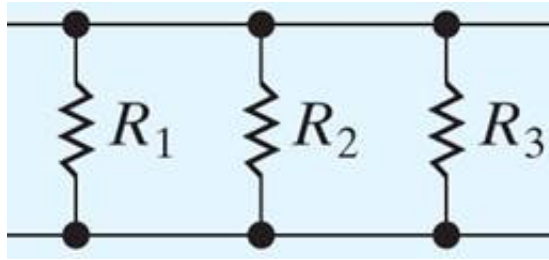
The correct answer is: 359418.00

**Correct**

Marks for this submission: 10.00/10.00.

**Question 5**

Correct

Mark 10.00 out of  
10.00

CQ3.02

Given:

$$R_1 = 269962 \, \Omega \text{ (Ohms)} \quad R_2 = 656600 \, \Omega \text{ (Ohms)} \quad R_3 = 38924 \, \Omega \text{ (Ohms)}$$

Find the equivalent resistance  $R_{\text{Eq}}$ .

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

Answer: 32343



Calculated question

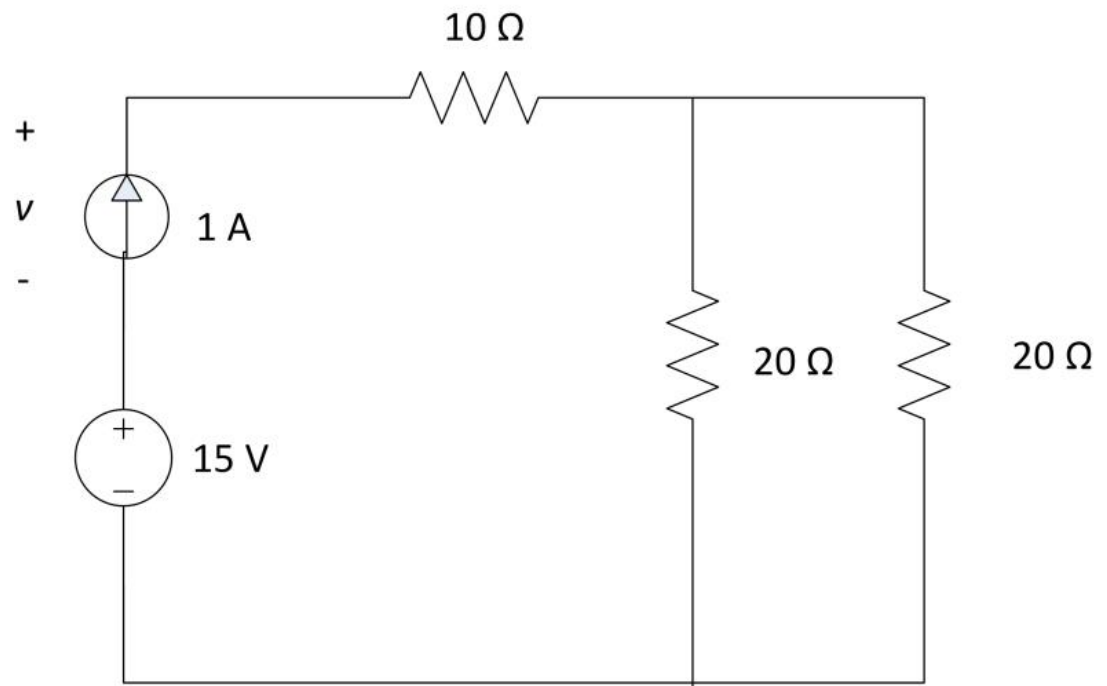
The correct answer is: 32343.29

**Correct**

Marks for this submission: 10.00/10.00.

**Question 6**

Correct

Mark 10.00 out of  
10.00

AS3.1

Find the voltage  $v$  in this circuit. $v = ??$  Volts

Answer: 5

**Numeric Answer** $v = 5$  V

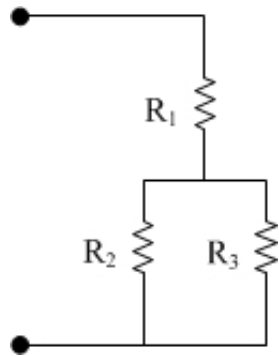
The correct answer is: 5

**Correct**

Marks for this submission: 10.00/10.00.

**Question 7**

Correct

Mark 10.00 out of  
10.00

CQ3.04

Given:

$$R_1 = 240568 \, \Omega \text{ (Ohms)} \quad R_2 = 343374 \, \Omega \text{ (Ohms)} \quad R_3 = 74235 \, \Omega \text{ (Ohms)}$$

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

Answer: 301606.84



Calculated question

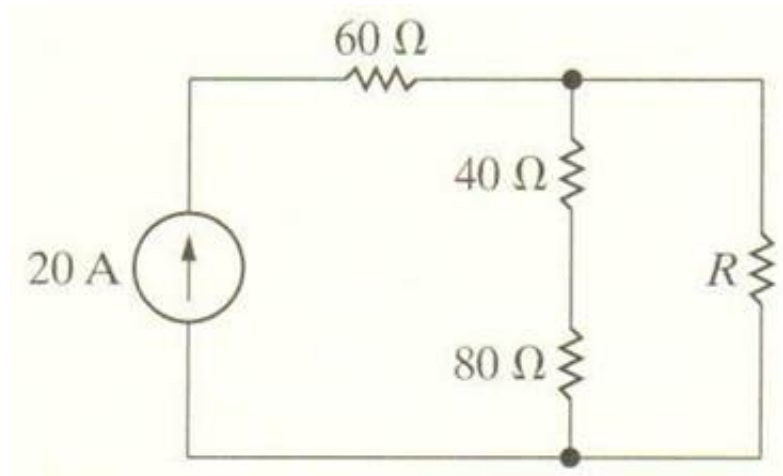
The correct answer is: 301606.84

**Correct**

Marks for this submission: 10.00/10.00.

**Question 8**

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

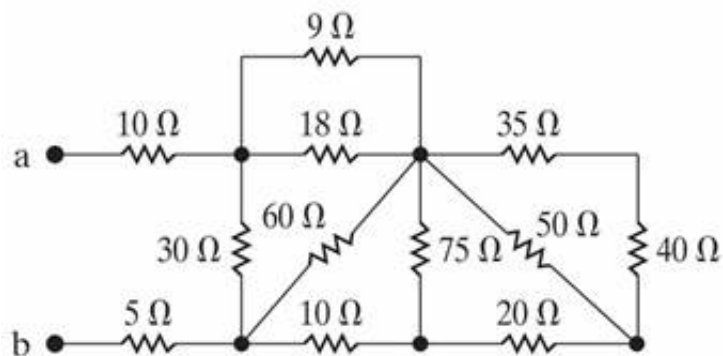
**Correct**

Marks for this submission: 10.00/10.00.



**Question 9**

Correct

Mark 10.00 out of  
10.00

P3.06b\_9ed

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

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

Answer: 30

**Numeric Answer**

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

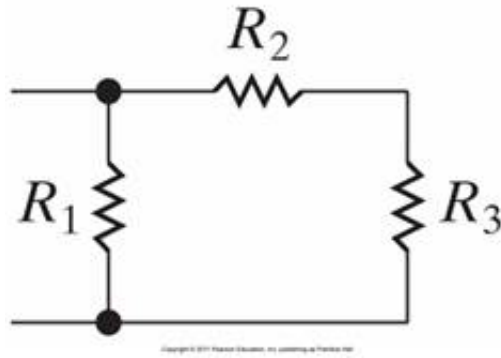
The correct answer is: 30

**Correct**

Marks for this submission: 10.00/10.00.

**Question 10**

Correct

Mark 10.00 out of  
10.00

CQ3.03

Given:

$$R_1 = 72951 \, \Omega \text{ (Ohms)} \quad R_2 = 712052 \, \Omega \text{ (Ohms)} \quad R_3 = 73257 \, \Omega \text{ (Ohms)}$$

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

Answer: 66750.26



Calculated question

The correct answer is: 66750.26

**Correct**

Marks for this submission: 10.00/10.00.