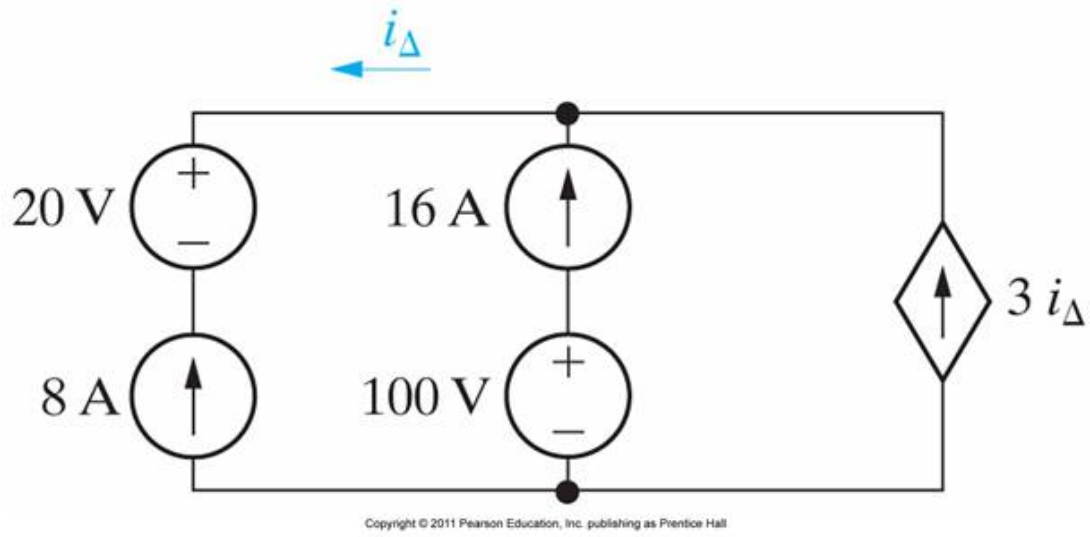
Started on	Thursday, 8 September 2016, 11:58 AM
State	Finished
Completed on	Thursday, 8 September 2016, 12:26 PM
Time taken	28 mins 20 secs
Grade	**100.00** out of 100.00

Question 1

Correct

Mark 10.00 out of 10.00



P2.09a_9ed

What is the current i_Δ (i delta)? i_Δ = ?? A

Answer: -8

Numeric Answer

i_D = -8 A

The correct answer is: -8

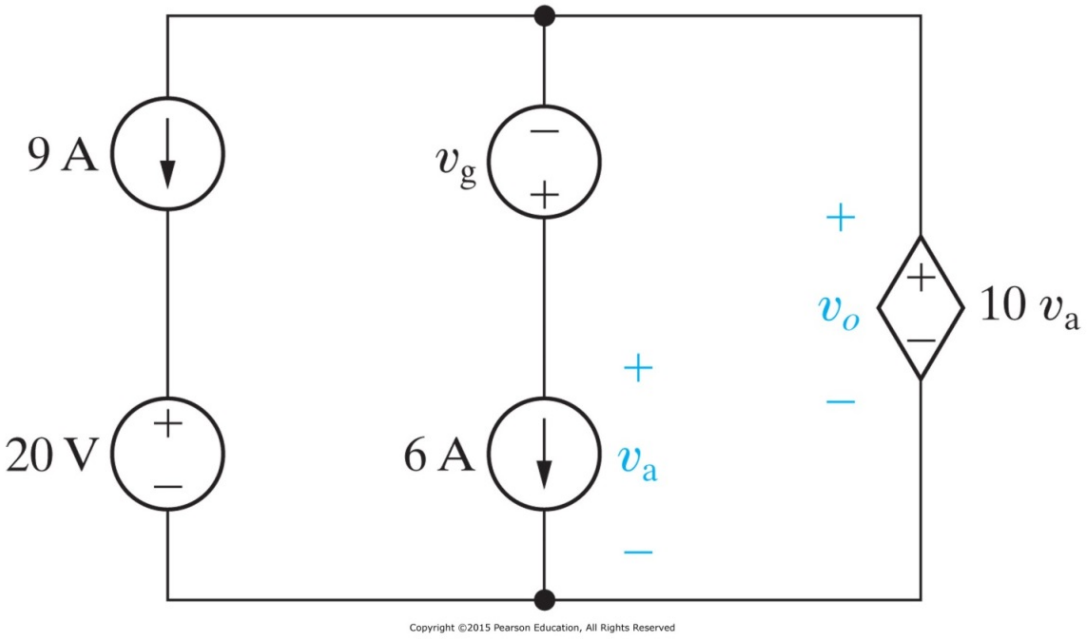
Correct

Marks for this submission: 10.00/10.00.

Question 2

Correct

Mark 10.00 out of 10.00



P2.10_10ed

Given that v_0 = 5 Volts.

Find the total power developed in the circuit. $P_{delivered}$ = ?? W

"+" = absorbed and "-" = delivered

Answer: -210

Numeric Answer

P_{del} = -210 W delivered

The correct answer is: -210

Correct

Marks for this submission: 10.00/10.00.

Question 3

Correct

Mark 10.00 out of 10.00

C3

An independent source is not influenced by any other current or voltage in the circuit.

An independent source is not influenced by any other source.

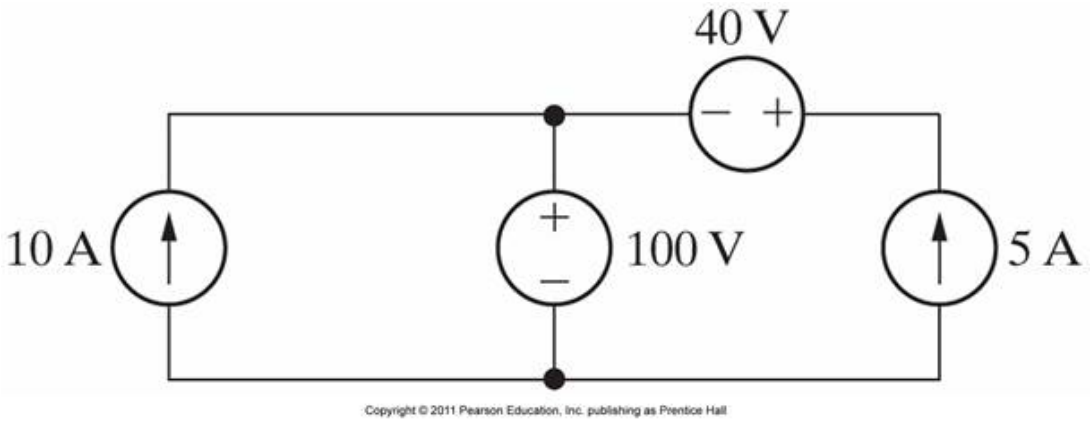
Correct

Marks for this submission: 10.00/10.00.

Question 4

Correct

Mark 10.00 out of 10.00



P2.04a_9ed

What is the current in the 100 V source?

I_{100V} =

Answer: 15

Numeric Answer

I_{100V} = 15 A

The correct answer is: 15

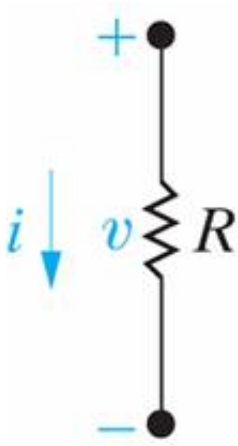
Correct

Marks for this submission: 10.00/10.00.

Question 5

Correct

Mark 10.00 out of 10.00



CQ2.03

Given: v = -43 Volts R = 19 Ω (Ohm)

Find the unknown current i. i = ?? Amps

Answer: -2.26

Calculated question.

The correct answer is: -2.2632

Correct

Marks for this submission: 10.00/10.00.

Question 6

Correct

Mark 10.00 out of 10.00

C4

A resistor is a passive circuit element. Resistors can only (absorb/deliver) power.

Answer: absorb

Resistor can only absorb power.

The correct answer is: absorb

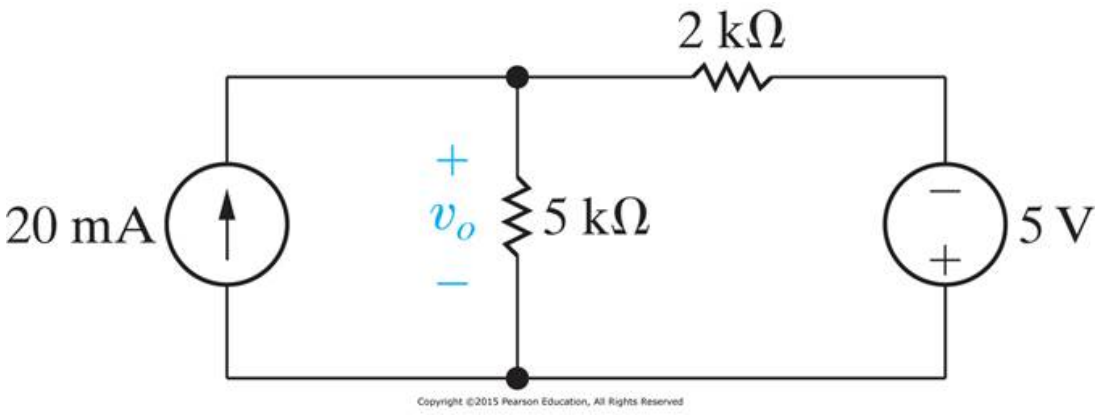
Correct

Marks for this submission: 10.00/10.00.

Question 7

Correct

Mark 10.00 out of 10.00



P2.17_10ed

Find v_0 using Kirchhoff's Laws and Ohm's Law. v_0 = ?? V

Answer: 25

Numeric Answer

v_0 = 25 V

The correct answer is: 25

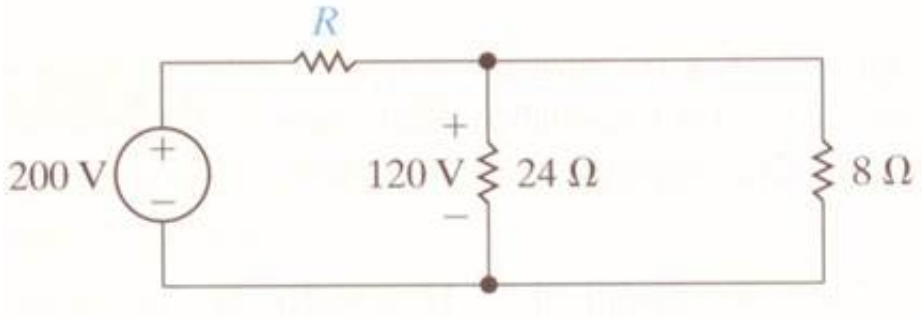
Correct

Marks for this submission: 10.00/10.00.

Question 8

Correct

Mark 10.00 out of 10.00



AP2.06_9ed

Use Ohm's Law and Kirchhoff's laws to find the value of R in this circuit. R = ?? Ω (Ohm)

Answer: 4

Numeric Answer

R = 4.0 Ω (Ohm)

The correct answer is: 4

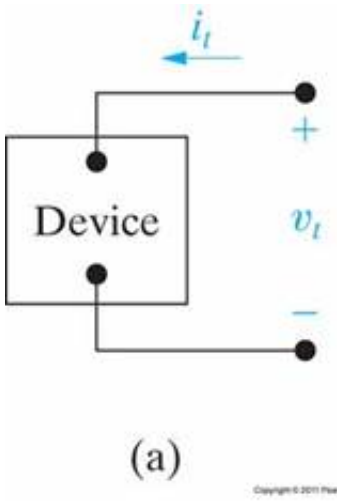
Correct

Marks for this submission: 10.00/10.00.

Question 9

Correct

Mark 10.00 out of 10.00



(a)

v_t (V)	i_t (A)
100	0
120	4
140	8
160	12
180	16

(b)

P2.14_9ed

The voltage and current were measured at the terminals of the device as shown in the table (b).

What is the value of the current source and resistor known to make up the device?

Current Source i = 20 ✓ A

Resistor R = 5 ✓ Ω (Ohm)

Numeric Answer

Current Source i = 20 A
Resistor R = 5 W (Ohm)

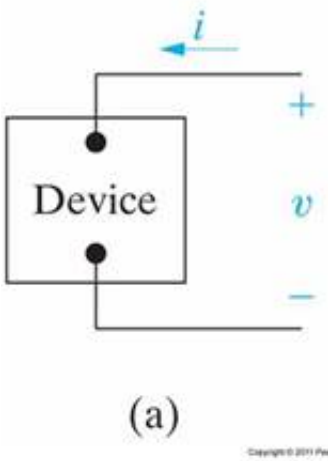
Correct

Marks for this submission: 10.00/10.00.

Question 10

Correct

Mark 10.00 out of 10.00



(a)

i (mA)	v (V)
−4	−108
−2	−54
2	54
4	108
6	162

(b)

P2.11_9ed

The terminal voltage and terminal current were measured on the device in Figure (a) and recorded in table (b).

Use the values in the table to construct a circuit model for the device consisting of a single resistor R = ?? kΩ (kilo Ohm).

Answer: 27

Numeric Answer

R = 27 kW (kilo Ohm)

The correct answer is: 27

Correct

Marks for this submission: 10.00/10.00.