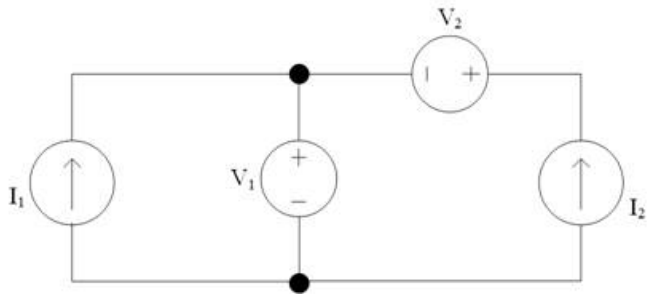
Started on	Wednesday, 14 September 2016, 11:02 AM
State	Finished
Completed on	Wednesday, 14 September 2016, 11:42 AM
Time taken	39 mins 33 secs
Grade	**83.33** out of 100.00

Question 1

Correct

Mark 40.00 out of 40.00



Quiz 2-1

Given: $I_1 = 11$ Amps $V_1 = 117$ Volts $I_2 = 11$ Amps $V_2 = 15$ Volts

What is the current through the voltage source V_1?

Answer: 22

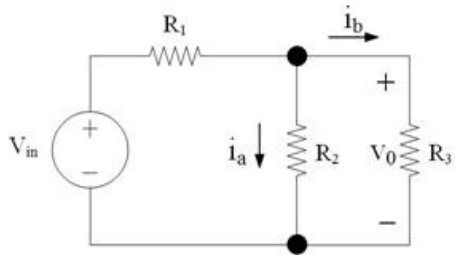
Calculated

The correct answer is: 22.00

Question 2

Correct

Mark 43.33 out of 60.00



Quiz 2-2b

Given: V_{in} = 60 Volts

R_1 = 4 Ω (Ohm) R_2 = 20 Ω (Ohm) R_3 = 80 Ω (Ohm)

a) Find the value of i_a. i_a = 2.4 ✓ A

b) Find the value of v_0. v_0 = 48 ✓ V

c) Find the power dissipated in each resistor.

P_{R1} = 36 ✓ W P_{R2} = 115.2 ✓ W P_{R3} = 28.8 ✓ W

d) Find the power delivered by the V_{in} source.

P_{Vin} = -180 ✓ W

Remember: "-" = Delivering "+" = Absorbing

Numeric Answer

a) i_a = 2.40 A
b) v_0 = 48.0 V
c) P_{R1} = 36.0 W P_{R2} = 115.20 W P_{R3} = 28.80 W
d) P_{Vin} = -180.0 W