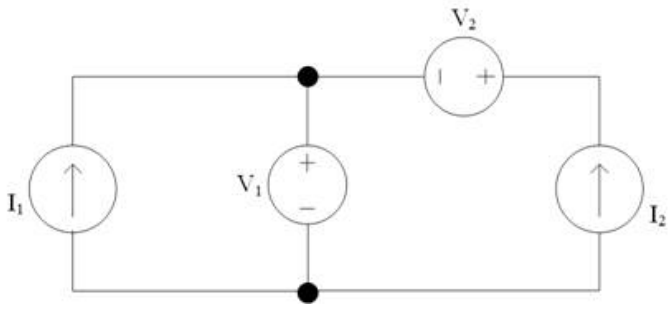
Started on	Wednesday, 14 September 2016, 11:58 AM
State	Finished
Completed on	Wednesday, 14 September 2016, 12:18 PM
Time taken	20 mins 2 secs
Grade	**100.00** out of 100.00

Question 1

Correct

Mark 40.00 out of 40.00



Quiz 2-1

Given: $I_1 = 13$ Amps $V_1 = 227$ Volts $I_2 = 2$ Amps $V_2 = 67$ Volts

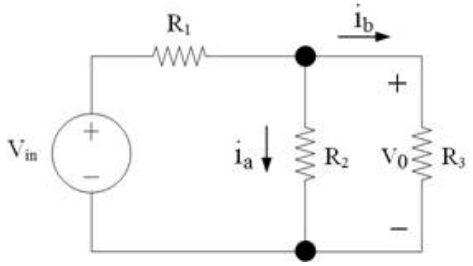
What is the current through the voltage source V_1?

Answer: 15

Question 2

Correct

Mark 60.00 out of 60.00



Quiz 2-2d

Given: V_{in} = 30 V (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 = 1.2 ✓ A

b) Find the value of v_0. v_0 = 24 ✓ V

c) Find the power dissipated in each resistor.

P_{R1} = 9 ✓ W P_{R2} = 28.8 ✓ W P_{R3} = 7.2 ✓ W

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

P_{Vin} = -45 ✓ W

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