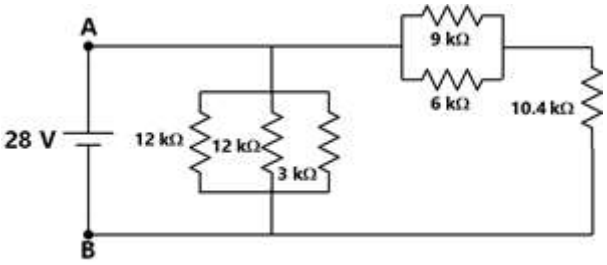
| | |
|---|---|
| **Started on** | Saturday, 2 January 2021, 5:00 PM |
| **State** | Finished |
| **Completed on** | Saturday, 2 January 2021, 5:30 PM |
| **Time taken** | 30 mins 1 sec |
| **Grade** | **7.00** out of 10.00 (**70**%) |

**Question 1**

Correct

Mark 3.00 out of 3.00

Find the current in each parallel path ($I_2$ through 10.4 kΩ).




* $I_1$ (mA): 14

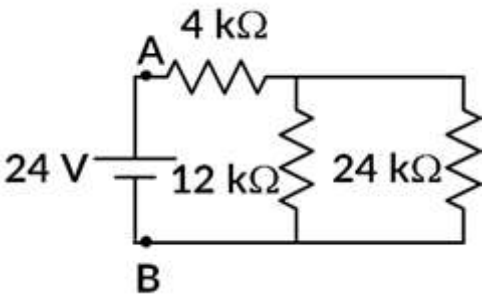
* $I_2$ (mA): 2

**Question 2**

Partially correct

Mark 1.00 out of 2.00

In the figure below, what is the current through the circuit and power delivered by the voltage source?




* Current (mA): 2 ✓

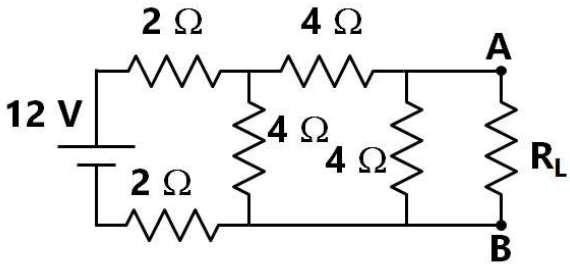
* Power (mW): 96 ✗

**Question 3**

Partially correct

Mark 3.00 out of 5.00

Simplify the circuit using Thevenin's and Norton's theorem. Assume that the load resistance is connected between nodes A and B. Compute the load resistance such that maximum power is transferred to the load. Find the current through the load resistor.




* $R_{th}$ or $R_N$ (Ω): 2.4 ✓

* $R_L$ (Ω): 2.4 ✓

* $V_{th}$ (V): 6 ✗

* $I_N$ (A): 1 ✓

* $I_L$ (A): 5 ✗