

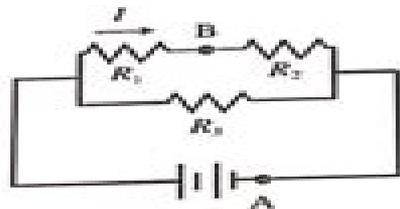
Problems from "The MCAT Physics Book"

Use the following information in questions 14–16:

In the circuit diagram shown, note that

- $R_1 = 4 \Omega$.
- $R_2 = 2 \Omega$.
- $R_3 = 2 \Omega$.

In addition, the current through resistor 1 is 2 amps.



14. What is the voltage drop across resistor 1?

- A. 2 volts
- B. 4 volts
- C. 8 volts
- D. 12 volts

15. What is the current through resistor 2?

- A. 1 ampere
- B. 2 amperes
- C. 4 amperes
- D. 8 amperes

16. What is the voltage difference between points A and B?

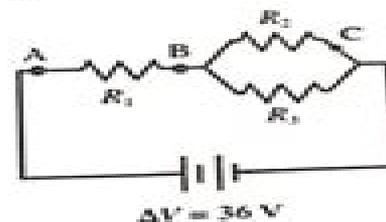
- A. 2 volts
- B. 4 volts
- C. 8 volts
- D. 12 volts

Use the following information in questions 17–20:

In the diagram, resistors 2 and 3 are in parallel, and their combination is in series with resistor 1. Point A is in the wire between the voltage source and resistor 1. Point B is in the wire between resistor 1 and the combination of 2 and 3. Point C is on the other side of resistor 2.

In the circuit shown, use the following:

- $R_1 = 4 \Omega$.
- $R_2 = 6 \Omega$.
- $R_3 = 3 \Omega$.
- $\Delta V = 36 \text{ V}$.



17. What is the current through resistor 1?

- A. 2.77 amps
- B. 6 amps
- C. 8 amps
- D. 9 amps

18. How does the voltage drop across resistor 2 (that is, V_2) compare with that across resistor 3 (that is, V_3)?

- A. $V_2 = 2 V_3$
- B. $V_2 = V_3$
- C. $V_3 = 2 V_2$
- D. $V_2 + V_3 = 36 \text{ V}$

19. How would the potential difference across resistor 2 change if points A and B were connected by a wire?

- A. It would increase.
- B. It would stay the same.
- C. It would decrease, but it would not be zero.
- D. It would be zero.

Mcat Physics Practice Problems Solutions Manual

CH Cherryholmes



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