

Circuits-Ohm's Law

$$\uparrow \quad \uparrow$$

$$P = I^2 R$$

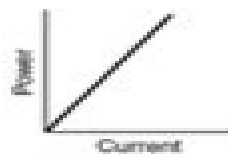
1. Which graph best represents the relationship between the electrical power and the current in a resistor that obeys Ohm's Law?



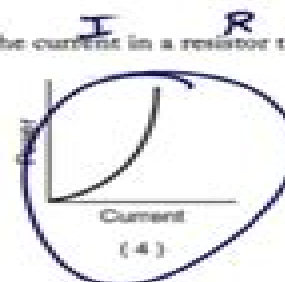
(1)



(2)



(3)



(4)

2. A potential drop of 50 volts is measured across a 250-ohm resistor. What is the power developed in the resistor?

1. 0.20 W
2. 5.0 W
3. 10 W
4. 50 W

$$V = 50V$$

$$R = 250\Omega$$

$$P = \frac{V^2}{R} = \frac{(50V)^2}{250\Omega} = 10W$$

3. How much electrical energy is required to move a 4.00-microcoulomb charge through a potential difference of 36 volts?

1. 9.00 $\times 10^6$ J
2. 144 J
3. 1.44 $\times 10^{-4}$ J
4. 1.11 $\times 10^{-7}$ J

$$W = qV$$

$$q = 4 \cdot 10^{-6} C$$

$$V = 36V$$

$$W = 1.44 \times 10^{-4} J$$

4. A circuit consists of a resistor and a battery. Increasing the voltage of the battery while keeping the temperature of the circuit constant would result in an increase in

1. current, only
2. resistance, only
3. both current and resistance
4. neither current nor resistance

$$T = \frac{V}{R}$$

$$\uparrow \quad \uparrow$$

$$I = \frac{V}{R}$$

5. A generator produces a 115-volt potential difference and a maximum of 20 amperes of current. Calculate the total electrical energy the generator produces operating at maximum capacity for 60 seconds. [Show all work, including the equation and substitution with units.]

$$V = 115V$$

$$I = 20A$$

$$W = 138,000 J$$

$$t = 60s$$

$$W = VIt = (115V)(20A)(60s)$$

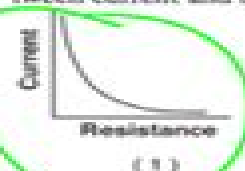
6. An electric circuit contains a variable resistor connected to a source of constant voltage. As the resistance of the variable resistor is increased, the power dissipated in the circuit

1. decreases
2. increases
3. remains the same

$$R \uparrow \quad P \downarrow$$

$$P = \frac{V^2}{R}$$

7. An electric circuit contains a variable resistor connected to a source of constant potential difference. Which graph best represents the relationship between current and resistance in this circuit?



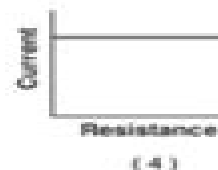
(1)



(3)



(2)



(4)

8. In a simple electric circuit, a 24-ohm resistor is connected across a 6-volt battery. What is the current in the circuit?

1. 1.0 A
2. 0.25 A
3. 1.40 A
4. 4.0 A

$$R = 24\Omega$$

$$V = 6V$$

$$I =$$

$$V = IR$$

$$I = \frac{V}{R} = \frac{6V}{24\Omega} = 0.25 A$$

$$V \quad R \quad I$$

$$I = \frac{V}{R}$$

Regents Physics Information Sheet Answers

Ian Pickup



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