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6. What is the potential difference across a 2-ohm resistor that draws 2 coulombs of charge per second?

$$V = IR = (2\Omega)(2A) = \boxed{4V}$$

7. An electric motor draws 150A of current while operating at 240V. What is the power rating of this motor?

$$P = IV = (150A)(240V) = \boxed{36\text{ kW}}$$

8. The heating element on an electric stove dissipates 600 watts of power when connected to a 120V source. What is the electrical resistance of this heating element?

$$P = IV = \frac{V^2}{R} \Rightarrow R = \frac{V^2}{P} = \frac{(120V)^2}{600W} = 24\Omega$$

9. An electric dryer consumes 6 million joules of energy when operating at 220V for 30 minutes (1800 seconds). During operating the dryer draws how much current?

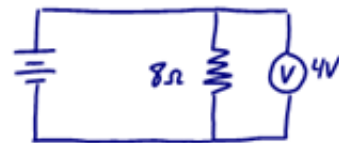
$$P = \frac{W}{t} \Rightarrow W = Pt \Rightarrow E = IVt \Rightarrow I = \frac{E}{Vt} = \frac{6,000,000J}{(220V)(1800s)} \Rightarrow$$

$$I = \boxed{15.2\text{ A}}$$



10. The diagram at right represents an electric circuit. Determine the total amount of energy delivered to the resistor in 10 seconds.

$$P = \frac{W}{t} \Rightarrow W = Pt = IVt = \frac{V^2}{R}t = \boxed{20\text{ J}}$$

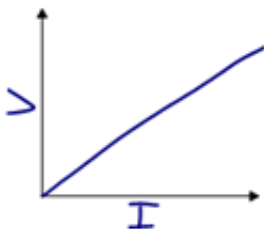


11. A 12V automobile battery has 8400 coulombs of electric charge. Determine the amount of electrical energy stored in the battery.

$$W = qV = (8400C)(12V) = \boxed{100\text{ kJ}}$$



12. A metallic conductor obeys Ohm's law. Sketch the relationship between the potential difference (V) across the conductor and the resulting current (I) through the conductor.



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