

Part I. Label each quantity in the equations below with the correct name and units.



Part II. Use the equations to solve the following questions. Be sure to show your work!

1. A basic circuit has a current of 12 Amperes and a resistance of 5 Ohms, what is its voltage?

Looking for: Voltage, V

Equation: $V=IR$

Given: $I = 12A$ $R = 5 \Omega$

Solution: $V = 12A * 5\Omega = 60V$

2. Common household voltage is 120 Volts. If my lamp has 0.5 Amperes of current running through it, what is its power rating?

Looking for: Resistance, R

Equation: $P=IV$

Given: $V = 120V$ $I = 0.5A$

Solution: $P = 0.5A * 120V = 60W$

3. My 14V car battery could be used to charge my laptop, but I need to use an inverter to first convert it to a standard 120V. Then my laptop charge cord has a resistor inside which ensures that 1.6A of current flow through to the laptop. What is the resistance in the charge cord?

Looking for: Resistance, R

Equation: $V=IR$

Given: $V = 120V$ $I = 1.6A$

Solution: $120V = 1.6A * R$
 $R = 75 \Omega$

4. My laptop charge cord actually has another inverter inside that converts the electricity to 19.5V and 3.3A. What is the resistance in the cord that accomplishes this?

Looking for: Resistance, R

Equation: $V=IR$

Given: $V = 19.5V$ $I = 3.3A$

Solution: $19.5V = 3.3A * R$
 $R = 5.90 \Omega$

5. I buy a new 15 Watt energy efficient bulb to run in my 120V household circuit, what is its resistance? Looking for: Resistance, R

Equation: $P=IV$

$V=IR$

Given: $P=15W$ $V=120V$

Solution: $15W = I * 120V$
 $I = 0.125A$

$120V = 0.125A * R$
 $R = 1000 \Omega$

6. I create a simple circuit using a 1.5V battery and a 3 ohm bulb, what is the bulb's current?

Looking for: Current, C

Equation: $V = IR$

Given: $V = 1.5V$ $R = 3 \Omega$

Solution: $1.5V = I * 3 \Omega$
 $I = 0.5 A$

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area is therefore $8\pi \text{ cm}^2$ the triangle's area can be calculated using the formula $\frac{1}{2} ab \sin c$ triangle area $\frac{1}{2} \cdot 4 \cdot 4 \cdot \sin 60$ $\frac{1}{2} \cdot 16 \cdot 3 \cdot \frac{\sqrt{3}}{2} = 6\sqrt{3} \text{ cm}^2$ note that we should remember that $\sin 60 = \frac{\sqrt{3}}{2}$

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