## Part A: Ohm's Law

$$V = IR$$

Symbol	Quantity	SI Unit					
V	Voltage	Volt (V)					
I	Current	Ampere (A)					
R	Resistance	Ohm (Ω)	$\Omega$ is the Greek letter omega.				
<b>A.1</b> What is the name of this letter: $\Omega$ ?							
What does it stand for in physics?							
A.2 What does "I" stand for?							
<b>A.3</b> I hook up a circuit with a 10 V battery and a 5 $\Omega$ light bulb. What is the current?							
Looking	For	Formula					
Already	Already Know						
Answer as a complete sentence with unit:							
<b>A.4</b> I hook up a circuit with a 30 V battery and a 6 $\Omega$ light bulb. What is the current?							
Looking		Formula	a 0 12 light build. What is the current?				
Already 1	 K now						
Ancady	KIIOW						
Answer as a complete sentence with unit:							
A.5 When I hook up a 12 V battery, I get 3 A of current. What is the resistance of my circuit?							
Looking	For	Formula					
Already	Know						
Answer as a complete sentence with unit:							

<b>A.6</b> I have 5 A of current going	through a 10 Ohm resistor. What is the voltage of my circuit?				
Looking For	Formula				
Already Know					
Answer as equation with unit:					
<b>A.7</b> I have 3 A of current going through a 5 Ohm resistor. What is the voltage of my circuit?					
Looking For	Formula				
Already Know					
Answer as a complete sentence with unit:					
<b>A.8</b> I hook up a 12 V battery to	a 36 $\Omega$ resistor. What is the current in my circuit?				
Looking For	Formula				
Already Know					

Answer as a complete sentence with unit:

Name \_\_\_\_\_

## Part B: Ohm's Law table

Each row of the following table contains two numbers given and one number still unknown. Fill in the unknown number so that each row satisfies the equation V = IR.

Voltage (Volts)	Current (Amps)	Resistance (Ohms)
24		4
15	5	
24		12
20	4	12
20		
	2	9
	3	12
10		20

## **Answers:**

A.1 omega; it stands for Ohms

A.2 current

**A.3** 2 Amps

**A.4** 5 Amps

**A.5** 4 Ohms

**A.6** 50 Volts

**A.7** 15 Volts

**A.8** 0.33 Amps