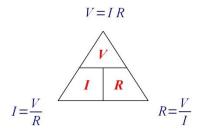
Ohm's Law

The Relationship Between Voltage, Current and Resistance

Ohm's law states that as long as temperature stays the same:



1. A current of 4.0 A flows through a 40 Ω resistor in a circuit. What is the voltage?

2. A 30 V battery generates a current through a 15 Ω resistor. How much current does the battery generate?

3. An electric stove is connected to a 240 V outlet. If the current flowing through the stove is 20 A, what is the resistance of the heating element?