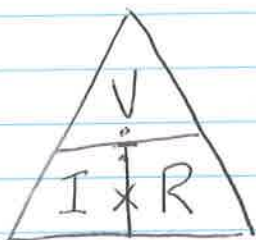


Ohm's Law

The current through a conductor is directly proportional to the voltage and inversely proportional to the resistance.

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

I = current
 V = voltage
 R = resistance



$$V = IR$$

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

Units of current = ampere [A]

Units of voltage = volt [V]

Units of resistance = ohm [Ω]

Current is the net movement of electric charges in a single direction

One ampere = 6.25×10^{18} electrons flowing past a point per second.

Voltage is how much electric potential each charge receives.

Resistance is the tendency to oppose the flow of electrons or charged particles.