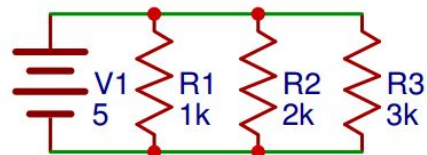
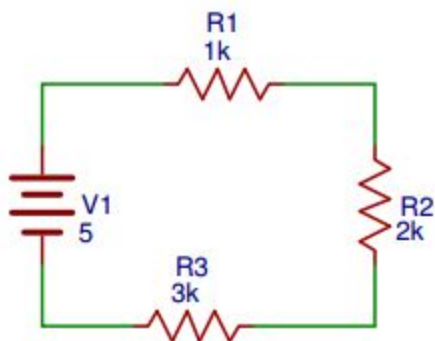
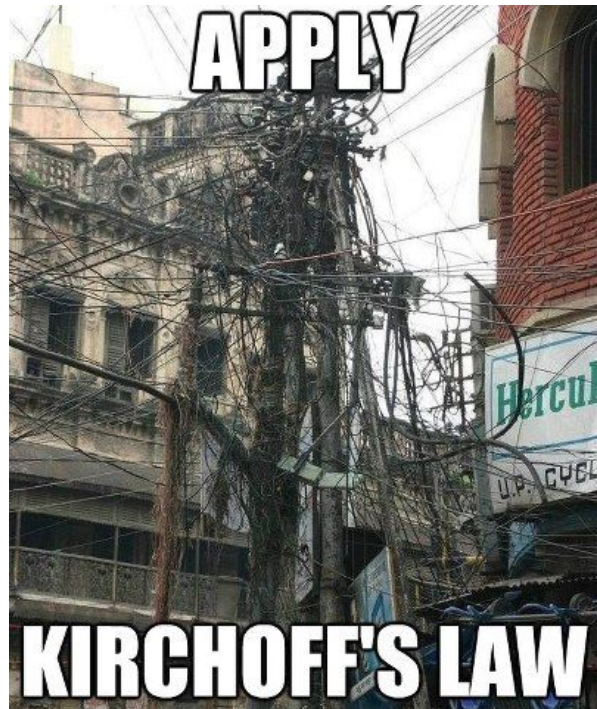


Kirchoff's Law

Kirchoff's Law states that the current going into a **node** is the same as the current going out of the **node**.

This is an intuitive law if we remember that electrons are physical things and when they get to an intersection they must choose a path. ie: the total number of cars entering an intersection equals the total number of cars leaving an intersection.



In series, the current is the same in each resistor.
In parallel, the sum of the currents in the resistors must equal the total amount of current in the circuit.

Kirchoff's Voltage Law

The sum of voltages within a circuit are equal to the total voltage of the system. ie: Total voltage in a loop equals 0.

Solve all V, R, and I.

If $V_1=8V$

