

Answer on Question #44143-Physics-Electric Circuits

Current decreases when passing through a resistor and then increases again upon exiting. Is it true or wrong explain in each case.

Answer

It is false. Current in a series circuit is the same all the way around the circuit.

In general, it depends on the circuit. The rules are: ohm's law and the laws of series and parallel circuits. Current is the same around a series circuit, and the sum of the voltages is zero. In a parallel circuit, current into any node adds to zero, i.e., currents going into a point equals currents going out.