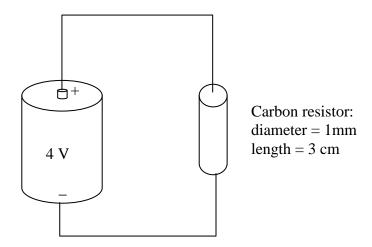
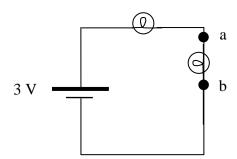
Circuit examples

Example 1

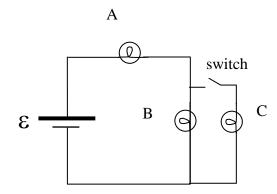


- 1. Draw the circuit diagram (What is shown above is the physical layout of the circuit).
- 2. What is the resistance of the carbon resistor?
- 3. How does R_{carbon} compare with R_{wires} ?
- 4. Apply $\Delta V_{loop} = 0$
- 5. Find the current
- 6. Graph V vs s (s measures the distance around the circuit)

Example 2

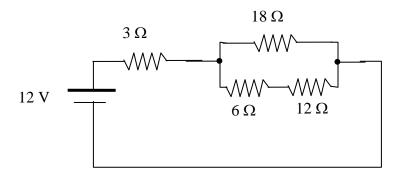


Example 3



1. This is the circuit from our tutorial. Using voltage, can you predict whether B gets dimmer, brighter or stays the same when the switch is opened?

Example 4



- 1. Find the current through and the voltage across each resistor.
- 2. What is power delivered by the battery?
- 3. What is the power dissipated by each resistor?