Student Notes - #17

If we had more complicated charge distributions, we need some general rules to analyze them.

Definitions:
- An arm of a circuit is
- A junction is
- A loop is

Kirchhoff's Rules:

* The loop rule
  
* The junction rule
Solving problems using Kirchhoff's rules.

Step 1

Step 2

Step 3

Step 4

Step 5

Step 6. Solve!

Analyze if you get a negative current.

A flashlight bulb is connected to two 1.5-V batteries in series. How much power does the bulb draw?
Q. When two car batteries are connected together so one can
jump the other, they are connected in parallel with
each other and the starter of the dead car. In this
case, how much current is supplied to the starter?

A.