Name:

Physics 222
Lab Physics for Science & Engineering
<u>Experiment: Circuit Fundamentals Prelab</u>

1) What is the objective of this experiment?

2) Using the schematic symbols for circuit elements depicted in the lab write up, draw a circuit with a battery, an LED, and a polarized capacitor all in parallel. Pay attention to the polarized orientation of the symbols!

3) Using the schematic symbols for circuit elements and the DMM depicted in the lab write-up, draw a circuit with a battery and two resistors in series. Depict how you would measure the voltage across one of those resistors by adding a voltmeter to your drawing.

4) Using the schematic symbols for circuit elements and the DMM depicted in the lab write-up, draw a circuit with a battery and two resistors in parallel. Depict how you would measure the current through one of those resistors by adding an ammeter to your drawing.