Lab #1: Simple Circuits 1/30/12

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Using some basic wiring skills described in class build the following circuit using the parts provided by your instructor.
2. After clearance from your instructor, turn on the power supply, close the switch and with the potentiometer turned all the way down. Then use the DMM to measure the voltage between A and B on the circuit, A and C, and A and D. Record those values below;

|  |  |
| --- | --- |
| Points on circuit | Voltage Difference (V) |
| A to B |  |
| A to C |  |
| A to D |  |

1. Now insert the DMM into the circuit so that you can monitor the current. Adjust the position of the potentiometer to increase the intensity of the bulb from the minimum to the maximum. Record the current flowing through the light bulb at the minimum and maximum settings of the potentiometer.

Minimum Brightness = \_\_\_\_\_\_\_\_\_\_\_A

Maximum Brightness = \_\_\_\_\_\_\_\_\_\_\_A