Name(s): _____
TA:_____
Section:_____

EECS 40
Introduction to Basic Electronics
Lab Report

i. Understanding the breadboard connections.

a. Are the two wires connected? Check Yes or No: Yes No
b. Are the two wires connected? Check Yes or No: Yes No
c. Are the two wires connected? Check Yes or No: Yes No

ii. Use multimeter to measure power supply voltages.

Actual Voltage Value: 5 V
Measured Voltage Value:

Actual Voltage Value: 14 V
Measured Voltage Value:

iii. Use multimeter to measure some resistors and pots.

Actual Resistance: 1 kΩ
Measured Resistance:

Resistance between the outer two legs:
Resistance between the middle leg and one of the outer two legs:

iv. Simple series circuit.

Voltage across R1:
Current through R1:

v. Simple parallel circuit.

Voltage across R2:
Current through R2:

On a concluding remark, notice that we **ALWAYS** say “voltage across” and “current through”. We **NEVER** say “voltage through” and “current across”. Because a voltage is a potential difference across two points in a wire and a current always flows through a wire. If you use the incorrect form when talking to electrical engineers, they will be wondering if you got your electrical engineering degree from that “university” in Palo Alto.