Name : _	
Name :	
TA :	
Section :	

EECS 40/43 Lab Report: Device Operating Curves

1. Connect a 220 Ω resistor as the DUT. Sketch the curve displayed on the oscilloscope. Does it matches with the expected value. (Label your plot)

2. Connect the black box as the DUT. Sketch the I-V characteristic of the DUT. From the I-V curve, can you determine what is inside the black box? Check your answer with the TA.

3. Connect a LED as the DUT. Sketch the curve displayed on the oscilloscope. Reverse the LED and sketch again. What is the turn on voltage for each case? (Label your plots)

4. How does the turn on voltage differ for LEDs of different colors?

5. Draw the operating curves of the MOSFET (indicate voltage scales and V_{GS} for each curve!).