ENSC 220 Fall 2008 Lab 1

Due: Sunday, October 5, 2008

Gro	oup members:					
1.	Name:					
	Student No.					
2.	Name:					
	Student No.]		

Each lab group submits one completed worksheet based on the instructions given in Lab 1.

Lab 1: Verification of KVL and KCL Worksheet

DMM accuracy					
Voltage	Current	Resistance			

Resistor values						
	Nominal	Measured				
R1						
R2		±				
R3						

		KVL	
	Expected (based on measured resistance and V _{in})	Measured	
$\begin{matrix} V_{_{in}} \\ \text{(nominal)} \end{matrix}$		± _	
V_{R1}		±	
V_{R2}		±	

		KCL	
	Expected (based on measured resistance and V _{in})	Meas	sured
I_{R1}			±
I_{R2}			±
I_{R3}			±

Show how equipment accuracy and measurement errors propagate through the expressions and affect the expected value of V_{R1} . Explain how the measurement process affects the resistances, voltages, and currents that you are measuring (one or two sentences and/or a diagram).

Discussion: