B. Data Tables w/ results – reproduce Table 3.2 & Table 3.3
C. Sample calculations – Show the calculation method used to fill out the columns in Table 3.2. If you fill out the calculations in column in Table 3.3 correctly, you will receive 5 extra points. You do this by using the diode in the following way: IF there CAN be a 0.7V drop over the diode, then there IS ONLY a 0.7V drop over the diode. If there CANNOT be a 0.7V drop over the diode, then the diode functions like an open switch. Feel free to see one of the TAs during office hours if you need more details.
D. Discussion –Discuss how superposition works in Task #1 and why superposition doesn't work in Task #2. Think about how the diode works. We have said that the diode is a non-linear element. Discuss why resistors are linear elements and diodes are not. (What makes something linear?)

Table 3.2: Task 1

Parameter	Measured	Calculated	% difference	SPICE	% difference (SPICE to measured)
V_L	0.275V	0.2654V	0.5%		
$V_{L,1}$	−0.291V	−0.2909V	0.01%		
$V_{L,2}$	0.5564V	0.5564V	0%		
$V_{L,1} + V_{L,2}$	0.2654V	0.2655V	0.01%		

Table 3.3: Task 2:

Parameter	Measured	Calculated	SPICE	% Error
V_L	−0.0024 mV			
$V_{L,1}$	0.154 V			
$V_{L,2}$	−0.003 mV			
$V_{L,1} + V_{L,2}$	0.151 V			

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