ELEC 302 Lab 2

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Question 1.1. The equations, derived in class [TODO: derive]:

$$v_+ = V_{TL} = -L_+ \frac{R_1}{R_2}, V_{TH} = -L_- \frac{R_1}{R_2}.$$

Question 1.2.

$$\frac{R_2}{R_1} = \frac{L_+}{3} = \frac{13}{3} \approx 4.67.$$

Thus as good approxmation we used a 4.7kΩ and a 1kΩ resistor for a ratio of 4.7.

Question 1.4. Expermintally, $V_{in} = 6.5\text{V}$

Question 2.1. From the prelab, $T = RC\ln\frac{V_+ - V_-}{V_{ref}} = 1.4$

Question 2.2. Measured: $V_{ref} = -2.75$