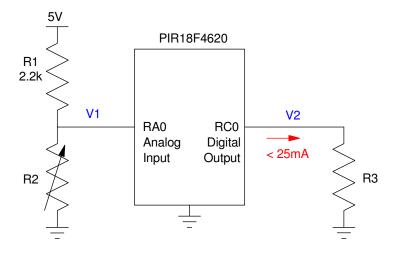
ECE 376 - Homework #1

PIC Background Due Wednesday, January 22nd

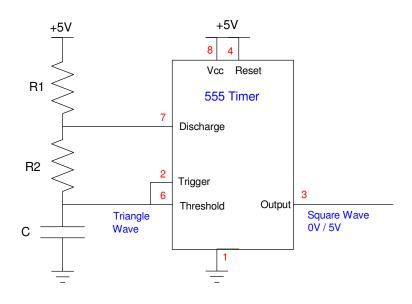
Answer
is is



Problem #1 to #3

If R2 is a thermistor, assume

$$R_2 = 1000 \cdot \exp\left(\frac{3905}{T + 273} - \frac{3905}{298}\right) \Omega$$



Astable 555 Timer: Problems 5-8 The square wave at the Output has a period of $T=(R_1+2R_2)\cdot C\cdot \ln(2)$ seconds