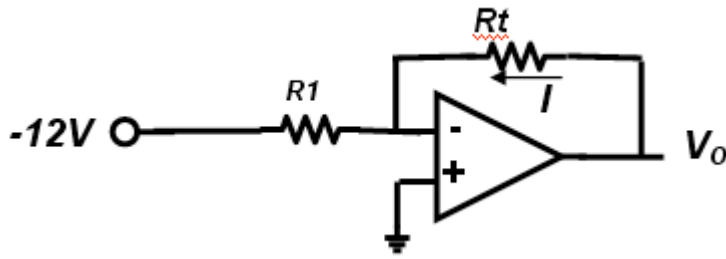


ECE 2A Lab 5

Pre-Lab Questions

1. How much voltage must drop across a $20\ \Omega$ resistor if its power dissipation is 5W ?
2. What is the current I in the following circuit if $R_1 = 50\text{k}$? What is V_o as a function of R_T and I ?



3. Posted at the class web site is a page from the data sheet for a thermistor (a temperature-variable resistor). The part we will be using is the 334-NTC503-rc. Using the circuit above, make a plot of the output voltage V_o as a function of temperature over the range from 25 to 80 C for $R_1 = 50\text{k}$.