Q1.
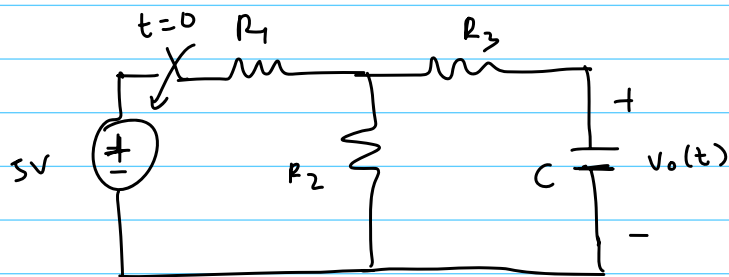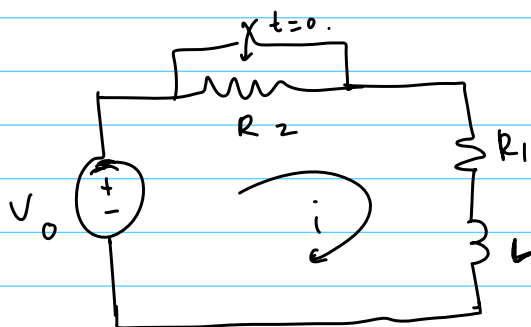

$$V_o(t=0^-) = 1V.$$

Switch is closed at $t=0$. Write the differential equation to find $v_o(t)$. What is the time constant of the circuit?

Q2.

Switch is closed at $t=0$.
Assume that the circuit attained steady state previously. Find the current in the circuit as a func^n of time.