

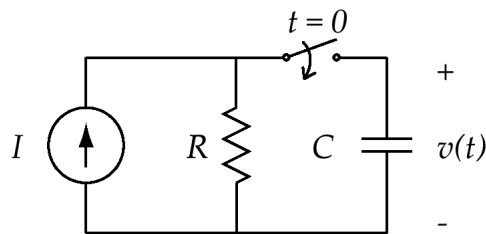
Inter American University of Puerto Rico
Bayamón Campus
School of Engineering
Department of Electrical Engineering

ELEN 3301 – Electric Circuits I

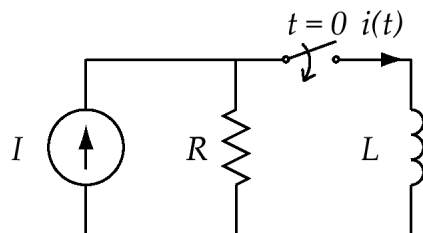
Problem Set 5

Due Wednesday, October 6

Problem 1: The capacitor C has an initial voltage of v_0 at time $t = 0$. At this instant, the switch closes. Find an algebraic expression and sketch $v(t)$ for $t > 0$.



Problem 2: The inductor L has an initial current of i_0 at time $t = 0$. At this instant, the switch closes. Find an algebraic expression and sketch $i(t)$ for $t > 0$.



Problem 3: The voltage $v(t)$ has an initial voltage of 0 at time $t = 0$. At this instant, the switch closes. Find an algebraic expression and sketch $v(t)$ for $t > 0$.

