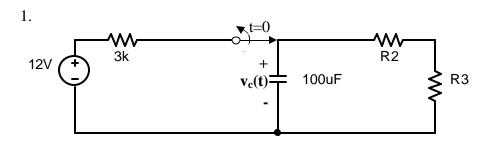
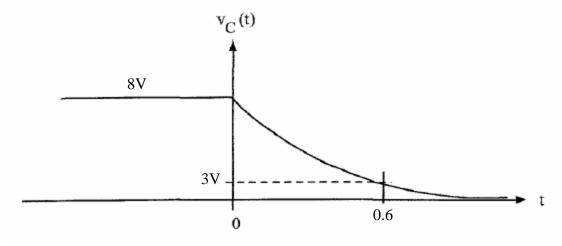
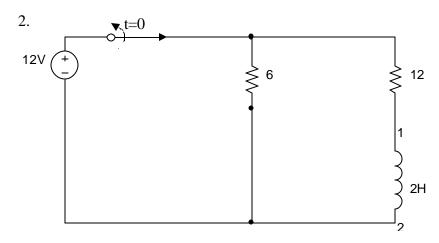
UNIVERSITY OF UTAH ELECTRICAL AND COMPUTER ENGINEERING DEPARTMENT

ECE 1270 HOMEWORK #5 Summer 2007



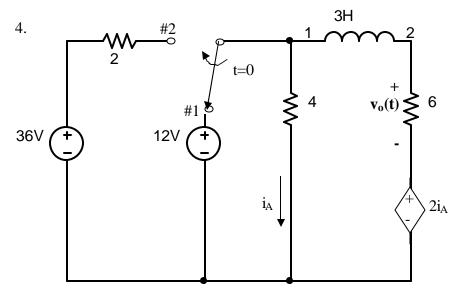
After being closed for a long time, the switch becomes open at t=0. Find R2 and R3 that give the following plot for vc(t):





After being closed for a long time, the switch becomes open at t=0. Find $i_L(t)$ for t > 0.

After the switch has been open for a long time, it closes at t=0. Find $v_o(t)$ for t>0.



After the switch is in position 1 for a long time, it switches to position #2 at time t=0. Find the output voltage $v_o(t)$ for t > 0.