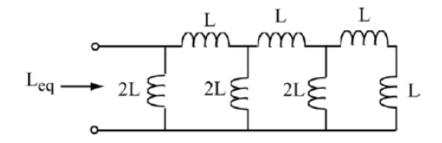
King Fahd University of Petroleum and Minerals Electrical Engineering Department

EE 202 (131) HW#5

Due Date: Nov. 10, 2013

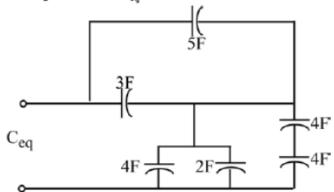
Q1.a)

Determine the equivalent inductance L_{eq} .



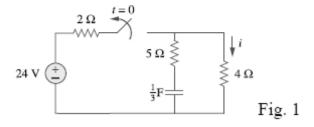
Q1.b)

Determine the equivalent capacitance C_{eq} .

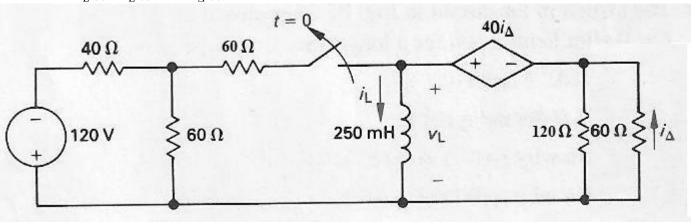


Q2)

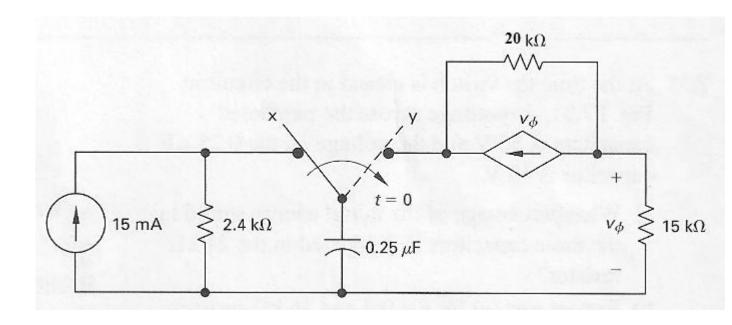
For the circuit shown in Fig. 1, find i(t), t > 0.



Q3) The switch in the circuit shown has been closed for a long time before opening at t=0. Find $i_L(t)$, $v_L(t)$, and $i_{\Delta}(t)$ for $t\geq 0^+$.



Q4) The switch in the circuit shown has been in position x for a long time before moving to position y at t = 0. Find $v_{\phi}(t)$ for $t \ge 0^+$.



Q5) The switch in the circuit shown has been closed a long time. At t = 0 it is opened. Find $v_o(t)$ for $t \ge 0^+$.

