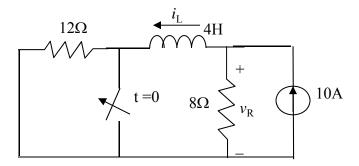
Name:	
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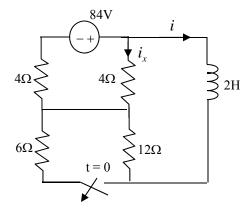
Circuit Theory I (16.201): Final Exam Practice B

Total 25 pts

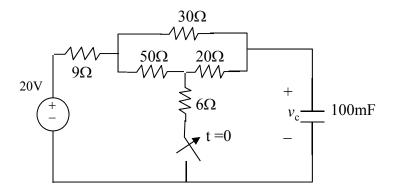
1. (5) The switch in the circuit has been closed for a long time before opening at t = 0. Find $i_L(t)$, and $v_R(t)$ for $t \ge 0$.



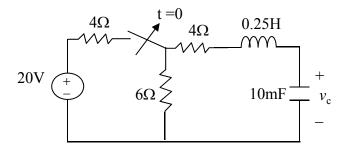
2. (5pts) The switch has been closed for a long time before it is open at t = 0. Find i(t) and $i_x(t)$ for $t \ge 0$.



3. The switch has been closed for a long time before open at t=0. Find $\nu_c(t)$ for $t \ge 0$.



4. (5pts) For t <0, the switch is closed. Assume that a steady state has been reached by t = 0. At t = 0, the switch is open. Find $v_c(t)$ for t>0.



5. (5pts) Find $v_c(t)$ and $v_R(t)$ for t > 0.

