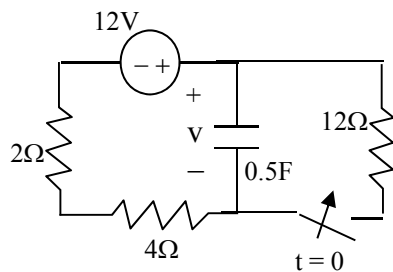


Name: _____

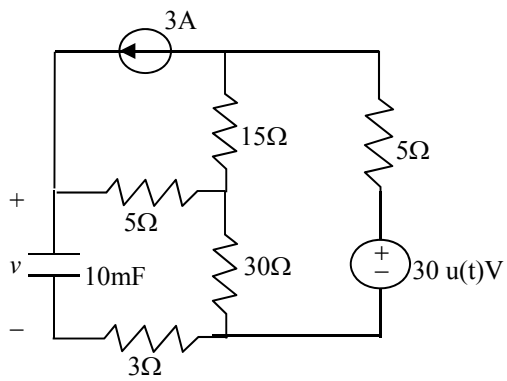
Circuit Theory I (16.201): Final Exam Practice A

Total 25 pts

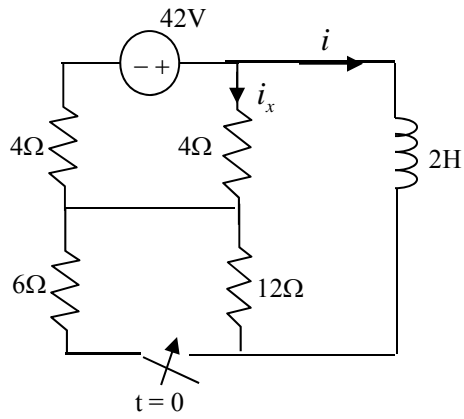
1. (5pts) The switch in the circuit has been open for a long time before closed at $t = 0$. Find $v(t)$ for $t \geq 0$.



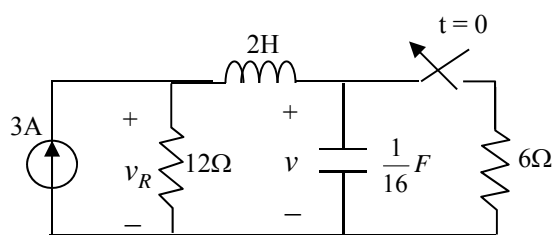
2. (5pts). Find $v(t)$ for $t > 0$. (You may use superposition to find $v(\infty)$).



3. (5pts) The switch has been open for a long time before it is closed at $t = 0$. Find $i(t)$ and $i_x(t)$ for $t \geq 0$.



4. (5pts) The switch has been closed for a long time before it is open at $t = 0$. Find $v(t)$ and $v_R(t)$ for $t > 0$.



5. (5pts) The switch has been closed for a long time before open at $t = 0$. Find $v(t)$ for $t > 0$.

