

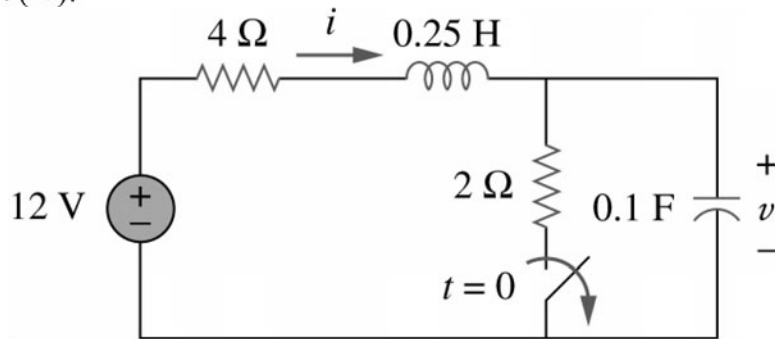
EE202, HW-6

Semester-131, Due date, December 2, 2013

Q1:

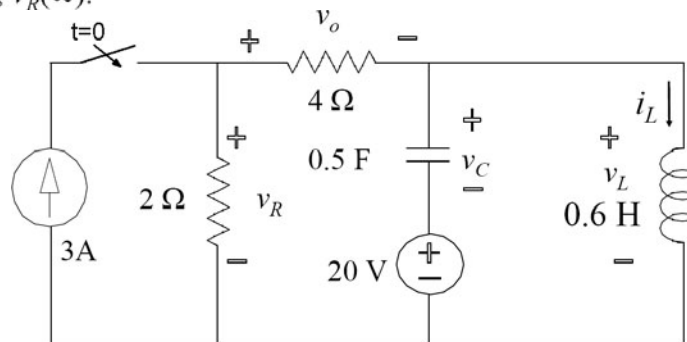
At $t = 0$, the switch is open. Find

- (a) $i(0^+)$ and $v(0^+)$;
- (b) $dv(0^+)/dt$, and $di(0^+)/dt$;
- (c) $i(\infty)$ and $v(\infty)$.

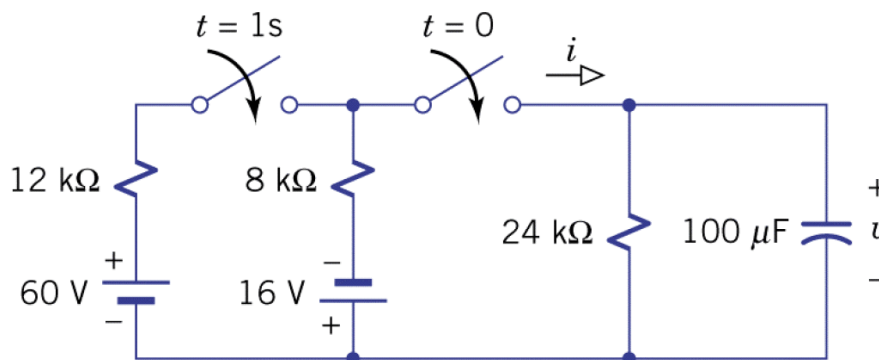


Q2:

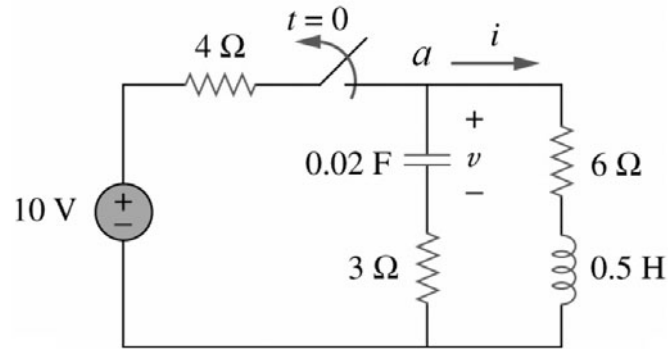
- Find (a) $i_L(0^+)$ and $v_C(0^+)$, $v_R(0^+)$;
- (b) $dv_C(0^+)/dt$, and $di_L(0^+)/dt$, $dv_R(0^+)/dt$;
- (c) $i_L(\infty)$, $v_C(\infty)$, $v_R(\infty)$.



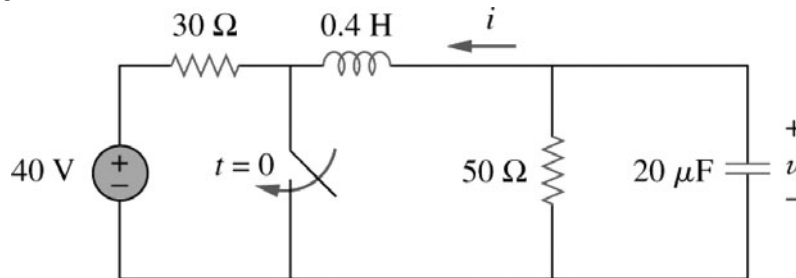
Q3: Find $V(t)$ and $I(t)$



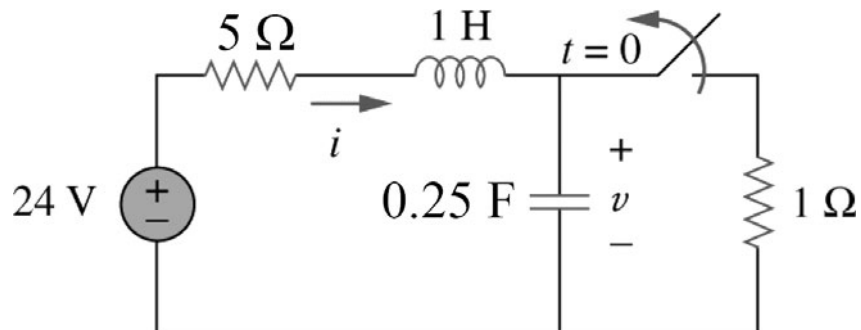
Q4: For the circuit shown below find $i(t)$



Q5: Find $V(t)$ for $t > 0$



Q6: Find $V(t)$ and $i(t)$ $t > 0$



Q7: Find $i_R(t)$ $t > 0$

