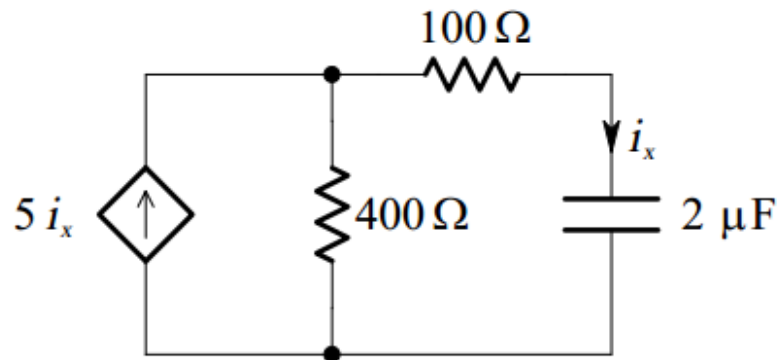
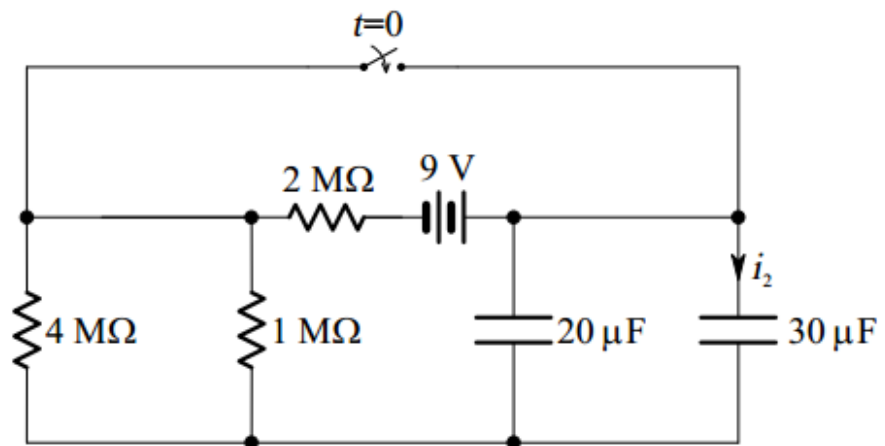


Consider the circuit shown below:



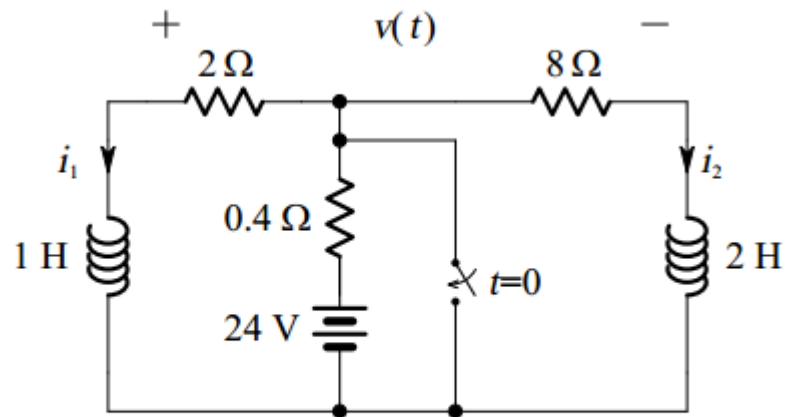
If $i_x(0^+) = 3 \text{ mA}$, find $i_x(t)$ for $t > 0$.

Consider the circuit shown below:



The switch closes at $t = 0$. Find $i_2(t)$ for $t > 0$.

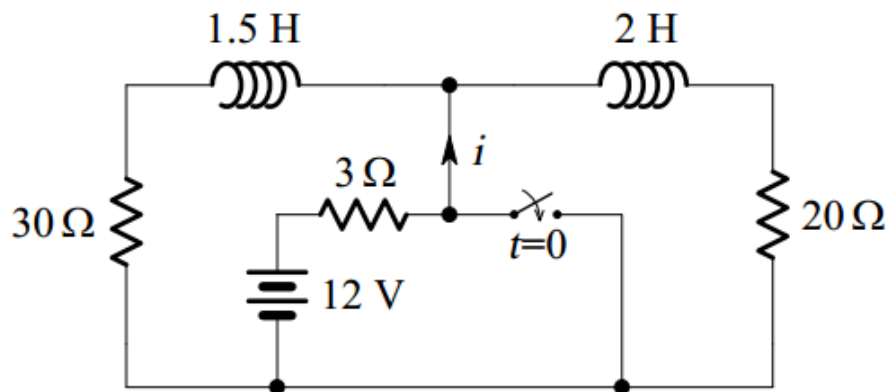
Consider the circuit shown below:



Find:

- (a) $i_1(0)$ (b) $i_2(0)$ (c) $i_1(t), t > 0$ (d) $i_2(t), t > 0$ (e) $v(t), t > 0$

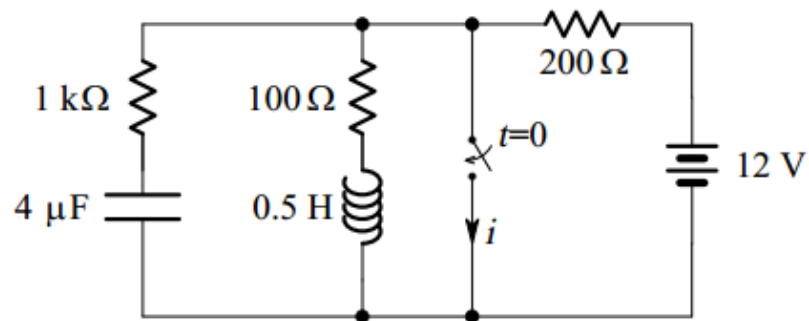
The switch in the circuit shown below has been open for a long time.



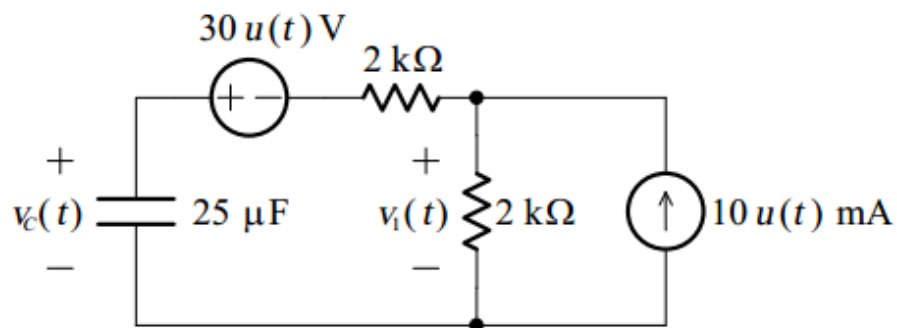
Find i at $t = :$

- (a) -0.08 s (b) $+0.08$ s

The switch in the circuit shown below has been open for a long time.



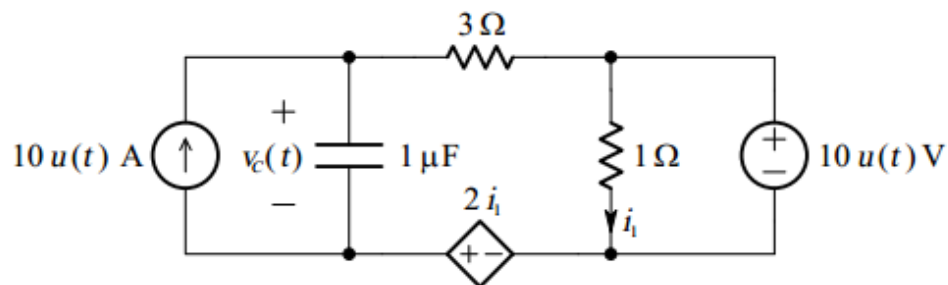
It closes at $t = 0$. Find $i(t)$.



Find $v_c(t)$ and $v_1(t)$.

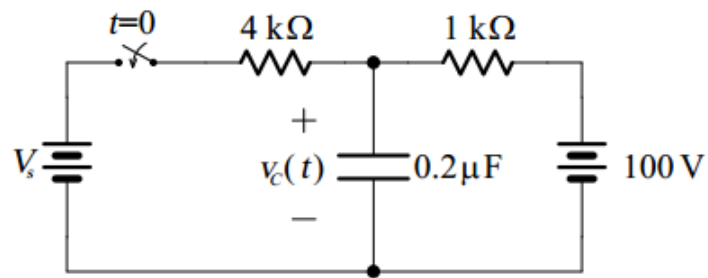
3.

Consider the circuit shown below:



Find $v_c(t)$.

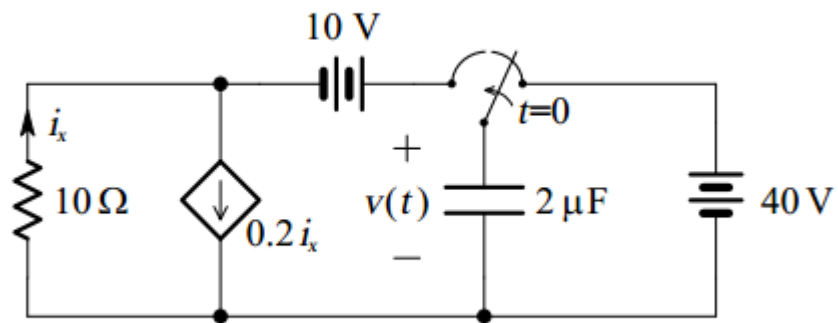
After being open for several minutes, the switch in the circuit below closes at $t = 0$.



Find $v_c(t)$ for all t if $V_s =$:

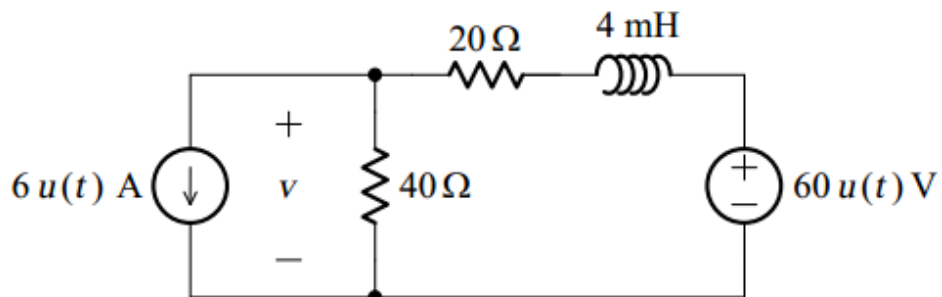
- (a) -200 V
- (b) $+100 \text{ V}$

Consider the circuit shown below:



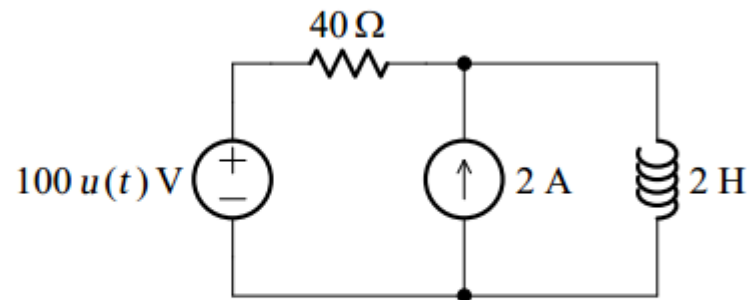
Find $v(t)$ for $t > 0$.

Consider the circuit shown below:



Find v as a function of time.

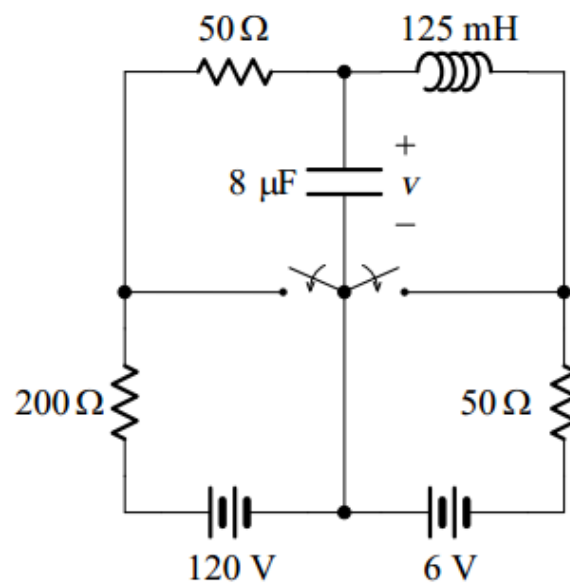
Consider the circuit shown below:



Find the power being absorbed by the inductor at $t =$:

- (a) 0^- (b) 0^+ (c) 0.05 (d) ∞

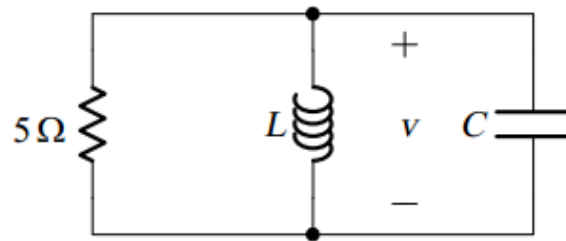
Consider the circuit shown below:



Both switches close at $t = 0$ after having been open for a very long time.

- (a) Find $v(t)$.

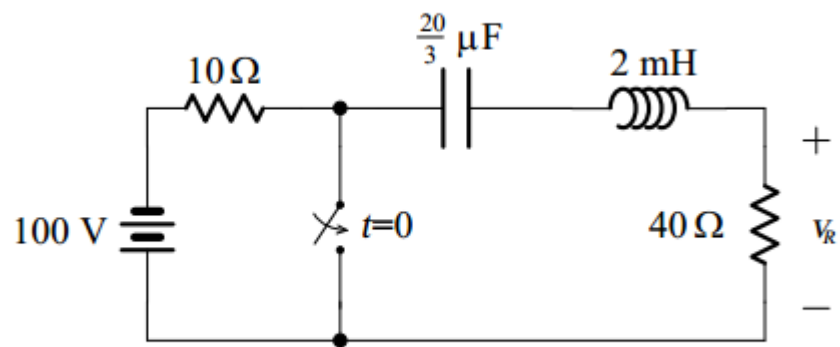
Consider the circuit shown below:



The voltage is given by $v(t) = e^{-7t}(20 \cos 24t + 5 \sin 24t)$ V for $t \geq 0$. Find:

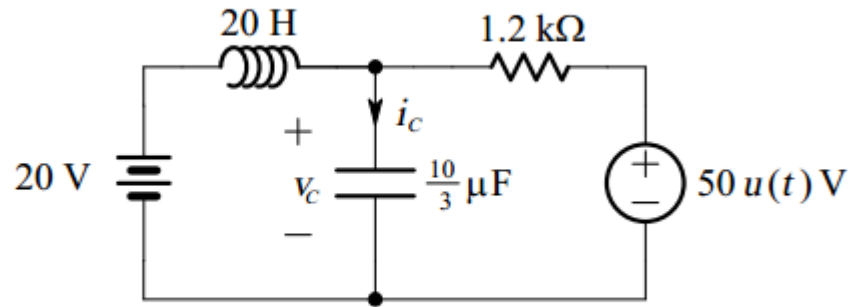
- (a) L and C .
- (b) The initial energy stored in the circuit.

Consider the circuit shown below:



The switch closes at $t = 0$. Find $v_R(t)$.

Consider the circuit shown below:



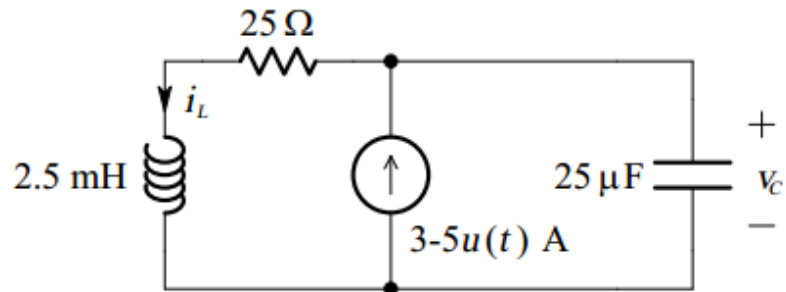
Find the following values:

$$I_L(0^-), V_L(0^-), I_R(0^-), V_R(0^-), I_C(0^-), V_C(0^-).$$

$$I_L(0^+), V_L(0^+), I_R(0^+), V_R(0^+), I_C(0^+), V_C(0^+).$$

$$I_L(\infty), V_L(\infty), I_R(\infty), V_R(\infty), I_C(\infty), V_C(\infty).$$

Consider the circuit shown below:



Find the following values:

$$I_L(0^-), V_L(0^-), I_R(0^-), V_R(0^-), I_C(0^-), V_C(0^-).$$

$$I_L(0^+), V_L(0^+), I_R(0^+), V_R(0^+), I_C(0^+), V_C(0^+).$$

$$I_L(\infty), V_L(\infty), I_R(\infty), V_R(\infty), I_C(\infty), V_C(\infty).$$