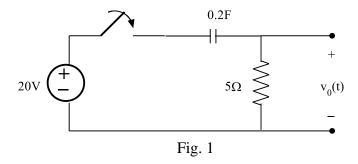
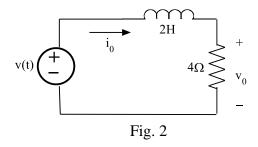
(1) Find $v_0(t)$ in the circuit shown in Fig. 1 if the initial energy is zero and the switch is closed at t = 0.



(2) There is no energy stored in the circuit in Fig. 2. at the time the voltage source is energized. $v(t) = 8e^{-4t}u(t)(V)$. Find $v_0(t)$ and $i_0(t)$ for $t \ge 0$



(3) Find the expression for i(t) in the circuit of Fig. 3, if the initial energy is zero and v = 20u(t) (V).

