

EE202 Homework 6

- (1) Find $V_0(s)$ and $v_0(t)$ in the circuit shown in Fig. 1 if the initial energy is zero and the switch is closed at $t = 0$.

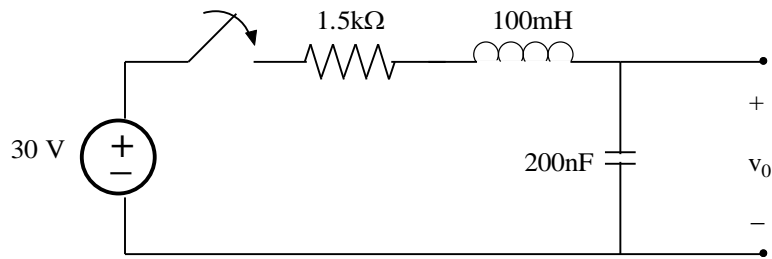


Fig. 1

- (2) There is no energy stored in the circuit in Fig. 2. at the time the voltage source is energized. $v(t) = 50,000te^{-30t}u(t)$ (V). Find
- $V_0(s)$ and $I_0(s)$
 - $v_0(t)$ and $i_0(t)$ for $t \geq 0$

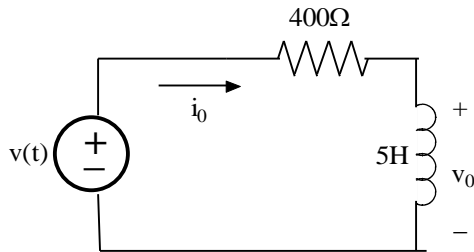


Fig. 2