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](image1)

(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

(a) $V_0(s)$ and $I_0(s)$

(b) $v_0(t)$ and $i_0(t)$ for $t \geq 0$

![Fig. 2](image2)