

1.
 - a) $i_C(t) = 0 \text{ A}$
 - b) $i_C(t) = 0.2 \text{ mA}$
 - c) $i_C(t) = 50\mu\text{A} \cdot e^{-t/4\text{ms}}$
2.
 - a) $v_L(t) = 0 \text{ V}$
 - b) $v_L(t) = 2.5 \mu\text{V}$
 - c) $v_L(t) = \frac{\pi}{2} \cos(2\pi \cdot 100t) \text{ mV}$
3. $t = 3.24 \text{ ms}$
4. $i_L(t) = \frac{1}{L} \left(8\text{kV} \cdot t + 75\text{mVs} \cdot e^{-t/12.5\mu\text{s}} - 75\text{mVs} \right)$
5. $v_C(t) = 2.4\text{V} \cdot e^{-t/90\text{ms}}$