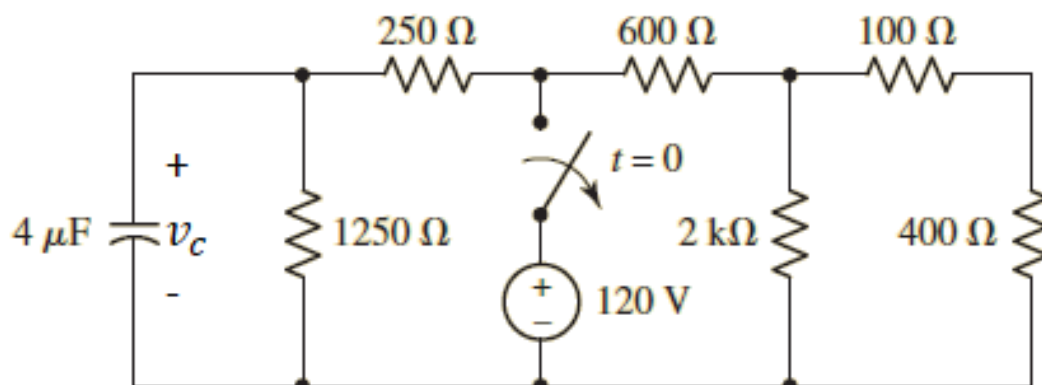
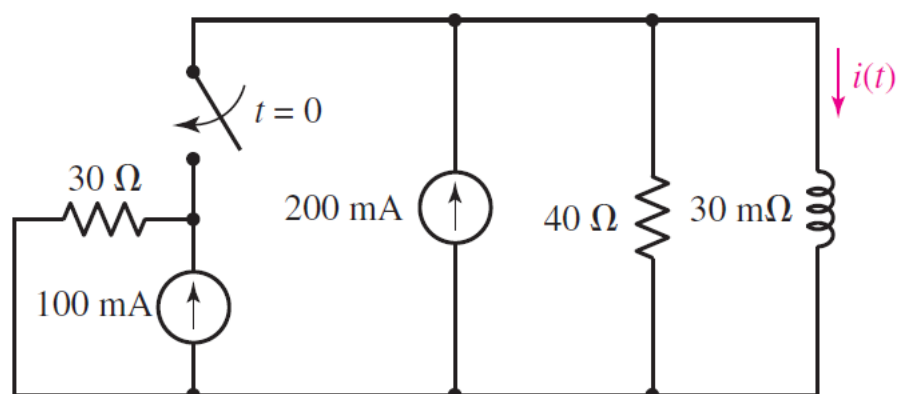


1) No circuito abaixo, determine $v_C(t)$ para $t > 0$.



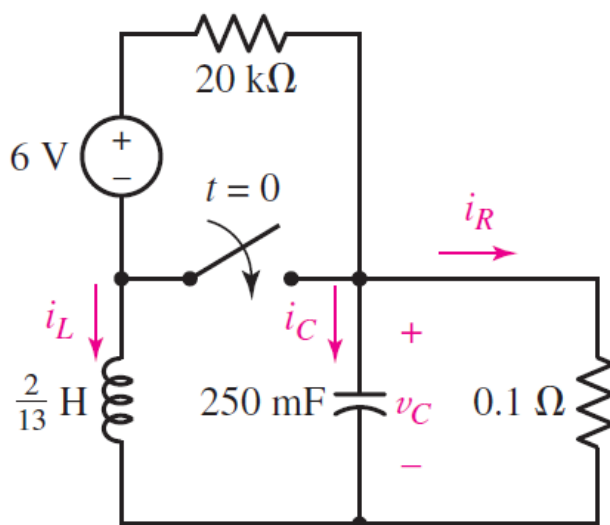
$$v_C(t) = 100 e^{-400t} \text{ V}$$

No circuito abaixo, encontre $i(t)$ para $t > 0$.



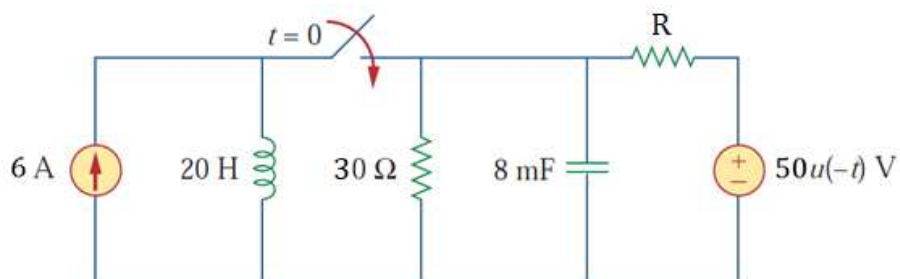
$$i(t) = 0,3 - 0,1 e^{-571,4t} \text{ A}$$

3) No circuito abaixo, encontre $v_C(t)$ para $t > 0$.



$$v_C(t) = 30,51 \cdot 10^{-6} e^{-0,66t} - 5,21 \cdot 10^{-7} e^{-39,34t} \text{ V}$$

4) Para o circuito abaixo, calcule o valor de R necessário para obter uma resposta com amortecimento crítico para $t > 0$.



$$R = 150 \Omega$$