

Problem 1

Assume that the circuit in Fig. 1 has reached steady state by $t = 0^-$. The switch is opened at $t = 0$.

1. Determine $i(0^+)$ and $v(0^+)$
2. Find $\frac{di}{dt}(0^+)$ and $\frac{dv}{dt}(0^+)$
3. Find $i(\infty)$ and $v(\infty)$
4. Write down $i(t)$ for $t > 0$

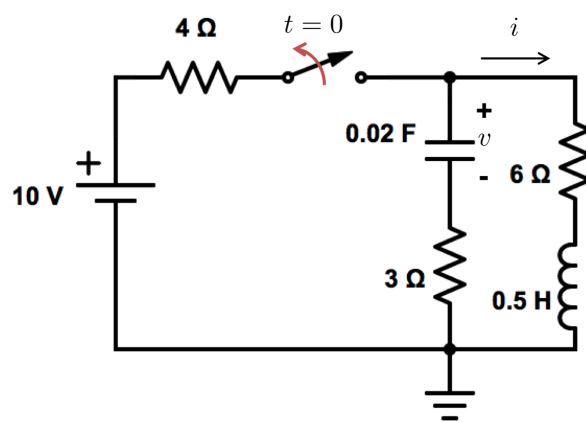


Figure 1