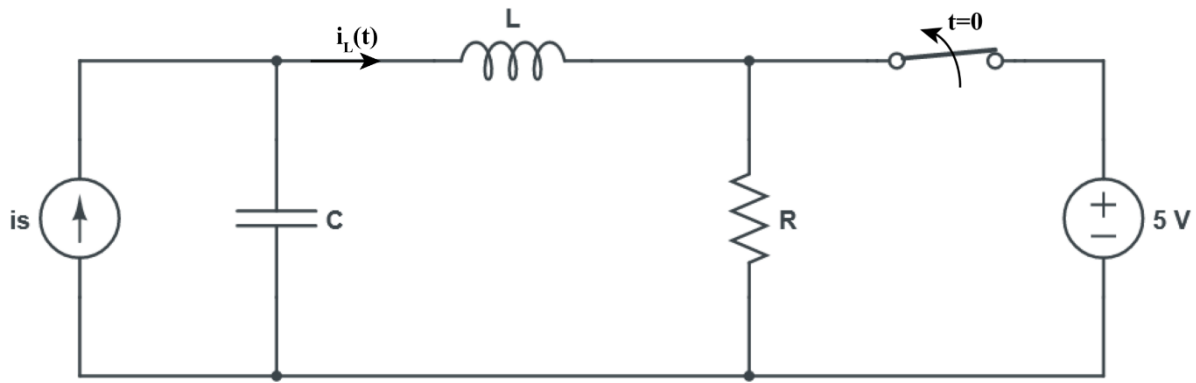


Upload your answer as a single PDF file at max. 5MB of size.

For the given circuit switch is opened at $t=0$ after being closed for a long time.

$R=40\ \Omega$, $C=25\text{mF}$, $L=10\text{H}$



1) If $i_s(t) = 10 u(t)A$

a. $i_L(0^-) = ?$

b. $i_L(t) = ?$

2) If $i_s(t) = e^{-3t} u(t)A$

a. $i_L(\infty) = ?$

b. $i_L(t) = ?$