The switch opens at time t = 2 s. Before the switch opens, the system has reached steady state.

Find these voltages and currents (i.e., just before the switch opens):

$$i_{L1} = i_L(2^-)$$
 $v_{L1} = v_L(2^-)$ $i_{C1} = i_C(2^-)$ $v_{C1} = v_C(2^-)$

Find these voltages and currents (i.e., just after the switch opens):

$$i_{L2} = i_L(2^+)$$
 $v_{L2} = v_L(2^+)$ $i_{C2} = i_C(2^+)$ $v_{C2} = v_C(2^+)$

V_s $\stackrel{4 \Omega}{\longrightarrow}$ $\stackrel{4 \Omega}{\longrightarrow}$ $\stackrel{+}{\longrightarrow}$ $\stackrel{+}$	
Given Variables: Vs : 8 V C : 2 nF L : 2 mH Calculate the following:	
L1 (A):	
2	`
vL1 (V) :	,
C1 (A):	
	,
vC1 (V):	
	`
L2 (A) :	
2	`
/L2 (V) :	
	,
C2 (A) :	
2	,

vC2 (V):

The switch opens at time t = 2 s. Before the switch opens, the system has reached steady state.

Vs: 20 V

Find these voltages and currents (i.e., just before the switch opens):

C: 2 nF

$$i_{L1} = i_L(2^-)$$

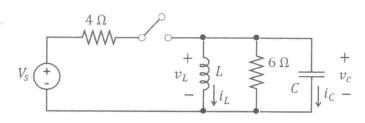
$$i_{L1} = i_L(2^-)$$
 $v_{L1} = v_L(2^-)$ $i_{C1} = i_C(2^-)$ $v_{C1} = v_C(2^-)$

$$i_{C1} = i_C(2^-)$$

$$L:1 \text{ mH}$$

Find these voltages and currents (i.e., just after the switch opens):

$$i_{L2} = i_L(2^+) \quad v_{L2} = v_L(2^+) \quad i_{C2} = i_C(2^+) \quad v_{C2} = v_C(2^+)$$



(a) : SWITCH is CLOSED



E = 2+ (b)





$$\mathcal{F}_{L}(2^{+}) = 0V$$