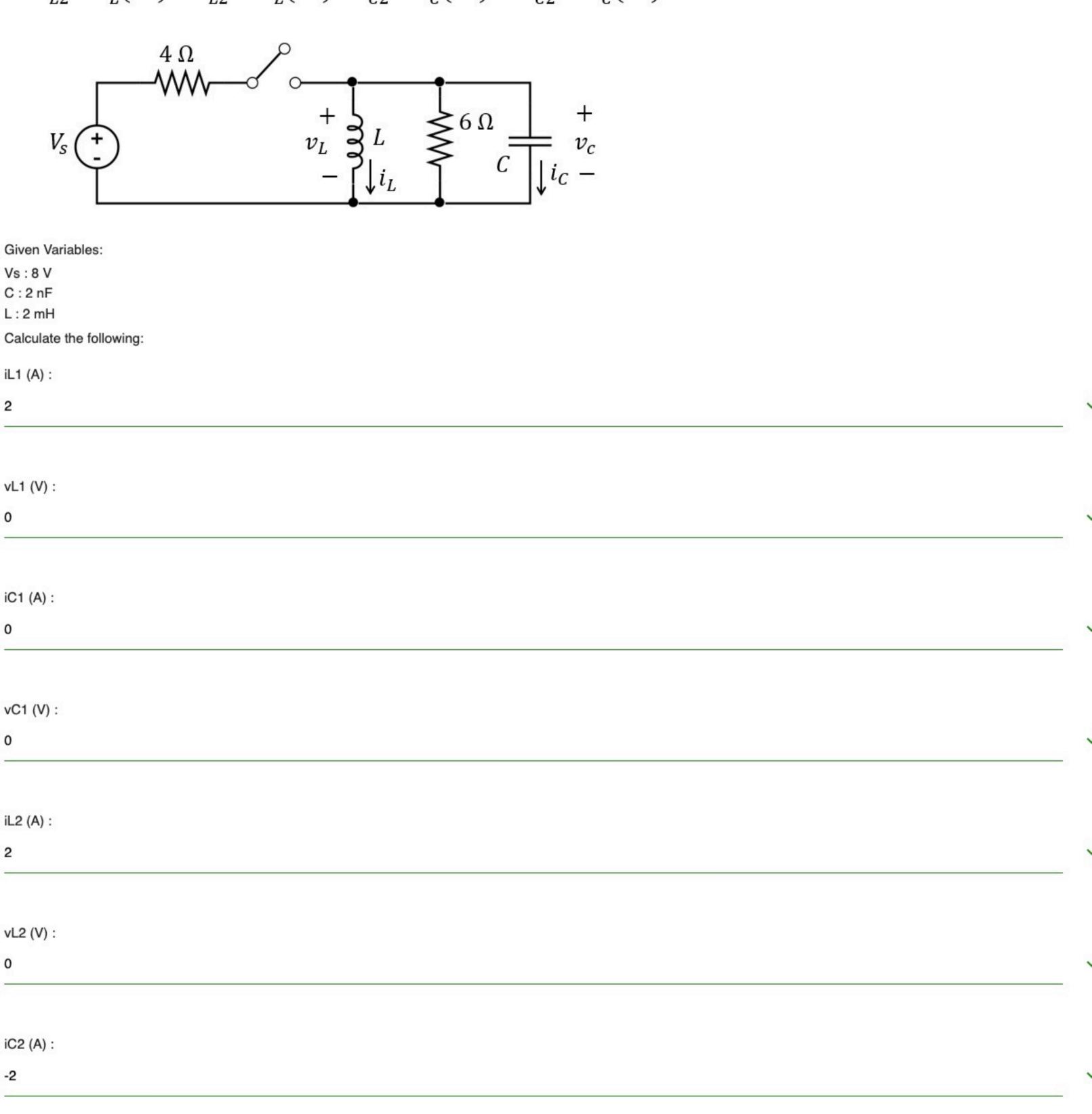
The switch opens at time t = 2 s. Before the switch opens, the system has reached steady state.

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):

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



Hint: In steady state, the capacitor and inductor behave as an open and short respectively.

-2

vC2 (V):