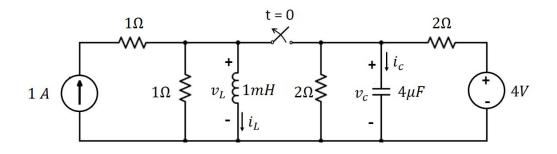
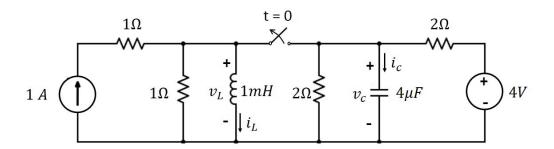
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ECE 35, Fall 2017	Last name		
Quiz 3 - Section A	First + middle name(s)		
	PID		
 Instructions: Read each problem complete All calculations need to be Write your answers in the Answers without supporting 	done on these sheets answer boxes for each	question. Make su	re you list units!
(1) Consider the system below (it At t = 0, the switch is opened opened, the system was not in (a) What is the energy in the continuous continu	and it remains open. An steady state, but it is	t time $t = 0^{-}$, just be given that $v_c(0^{-}) = 1$	fore the switch was
switch is opened)?	sapacitor at time t = 0 ,	(fight after the	
(b) Find the expression for the inductor voltage $v_L(t)$, for $t > 0$.	ν _ι (t) in V =		
(c) At time <i>t</i> = 1000, the switc	ch is closed again. Find	the	
capacitor voltage v_c and the $t = \infty$.	ne inductor current i L a	t time	Vc
•			i _L





(2) Find $i_C(t)$. (Hint: you can use nodal analysis)

