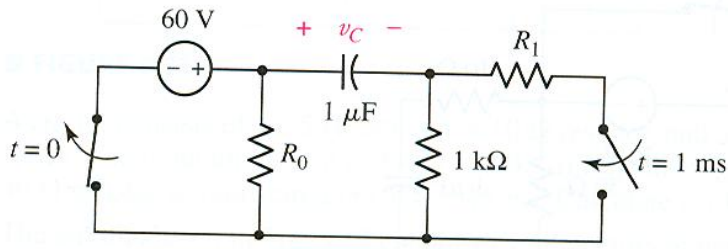
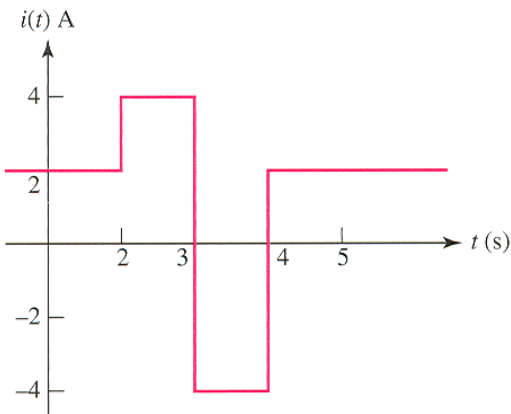


ENGR 204 Spring 2010 Homework #6 chapters 7 and 8.

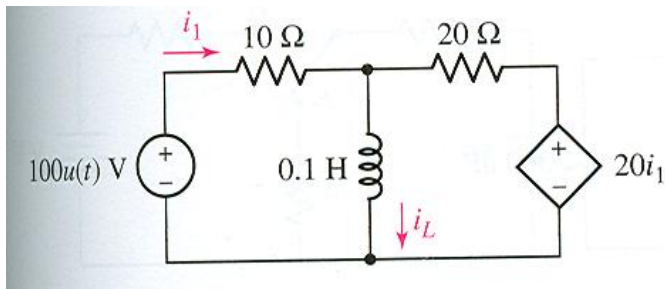
Find  $R_0$  and  $R_1$  in the circuit shown so that  $v_c = 50$  v at  $t = 0.5$  ms and  $v_c = 25$  v at 2 ms.



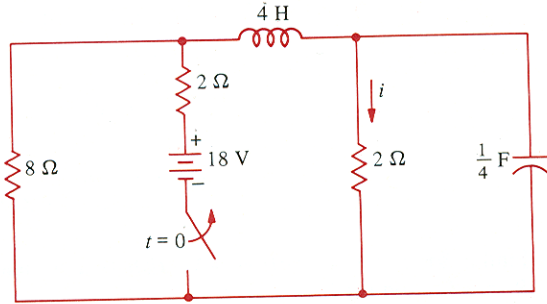
Create an expression using step functions for the following waveform:



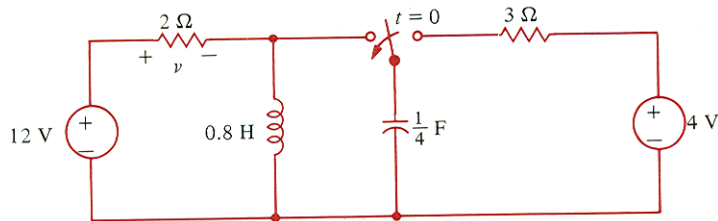
Find  $i_L(t)$  and  $i_1(t)$ . Note that  $u(t)$  is the step function.



Find  $i$  for  $t > 0$  if the circuit is in the steady state at  $t = 0^-$ .



Find  $v$  for  $t > 0$  if the circuit is in the steady state at  $t = 0^-$ .



The switch in the circuit below has been closed a very long time. It opens at  $t = 0$ . Find  $v_C(t)$  for  $t > 0$ .

