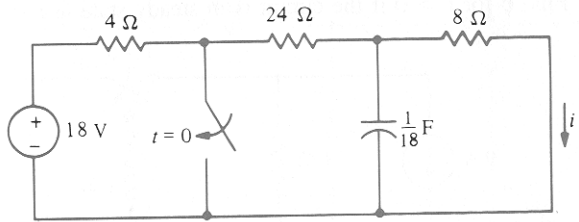


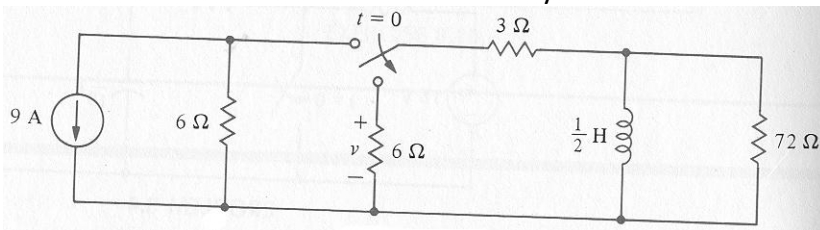
**ENGR&204 Spring 2011 Homework 6 Due the last class of the term (before the final test)**

**Use the cookbook!**

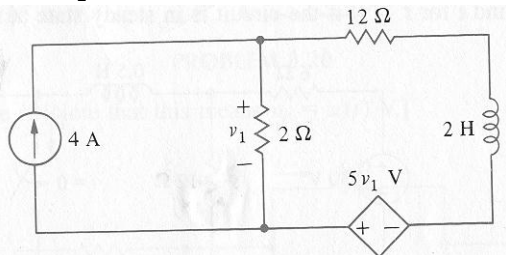
Find  $i$  for  $t > 0$  if the circuit is in the steady state at  $t = 0^-$ .



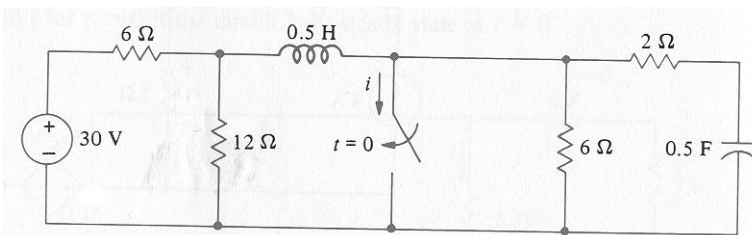
Find  $v$  for  $t > 0$  if the circuit is in the steady state at  $t = 0^-$ .



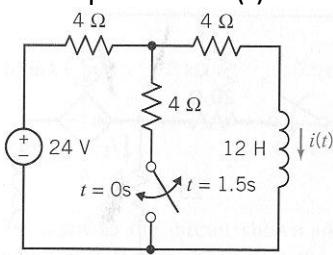
Find  $v_1$  for  $t > 0$  if there is no initial stored energy.



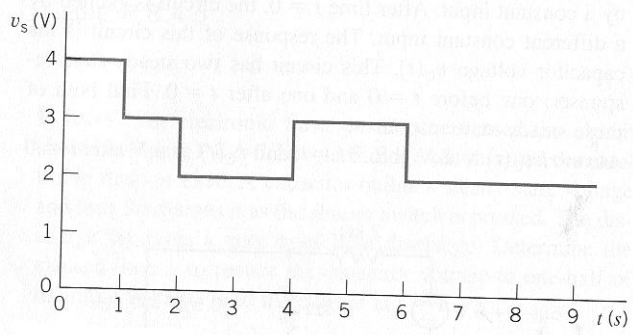
Find  $i$  for  $t > 0$  if the circuit is in the steady state at  $t = 0^-$ .



The circuit is in the steady state before the switch closes at  $t = 0$  s. The switch stays closed for 1.5 s and then opens. Find  $i(t)$  for  $t > 0$  s.



Use step functions to create the voltage shown.



Find the step response  $i$ . (This means  $v_g = u(t)$  volts)

