## Chapter 7, Solution 36.

(a) 
$$v(t) = A + Be^{-t}, t > 0$$
  
 $A = 1, v(0) = 0 = 1 + B$  or  $B = -1$   
 $v(t) = 1 - e^{-t} V, t > 0$ 

(b) 
$$v(t) = A + Be^{t/2}, t > 0$$
  
 $A = -3, v(0) = -6 = -3 + B$  or  $B = -3$   
 $v(t) = -3(1 + e^{t/2})V, t > 0$