## Chapter 7, Solution 4.

For 
$$t < 0$$
,  $v(0^-) = 40 \text{ V}$ .

For t > 0. we have a source-free RC circuit.

$$\tau = RC = 2 \times 10^3 \times 10 \times 10^{-6} = 0.02$$

$$v(t) = v(0)e^{-t/\tau} = 40e^{-50t} V$$