Chapter 7, Solution 35.

(a)

$$v = Ae^{-2t}, \qquad v(0) = A = -1$$

$$v(t) = -e^{-2t}u(t) \ \mathbf{V}$$

(b)

$$i = Ae^{3t/2}, \qquad i(0) = A = 2$$

$$i(t) = 2e^{-1.5t}u(t) \ \mathbf{A}$$