Chapter 7, Solution 63.

For
$$t < 0$$
, $u(-t) = 1$, $i(0) = \frac{10}{5} = 2$
For $t > 0$, $u(-t) = 0$, $i(\infty) = 0$
 $R_{th} = 5 || 20 = 4 \Omega$, $\tau = \frac{L}{R_{th}} = \frac{0.5}{4} = \frac{1}{8}$
 $i(t) = i(\infty) + [i(0) - i(\infty)] e^{-t/\tau}$
 $i(t) = 2e^{-8t}u(t) A$

$$v(t) = L \frac{di}{dt} = \left(\frac{1}{2}\right)(-8)(2) e^{-8t}$$

$$v(t) = -8e^{-8t}u(t) V$$

$$2e^{-8t}u(t) A, -8e^{-8t}u(t) V$$