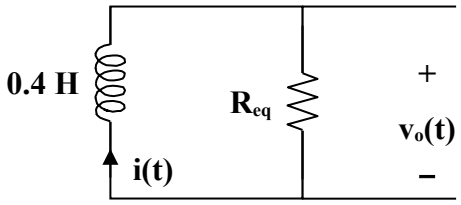
Chapter 7, Solution 18.

If $v(t) = 0$, the circuit can be redrawn as shown below.



$$R_{eq} = 2 \,||\, 3 = \frac{6}{5}, \quad \tau = \frac{L}{R} = \frac{2}{5} \times \frac{5}{6} = \frac{1}{3}$$

$$i(t) = i(0)\, e^{-t/\tau} = 5e^{-3t}$$

$$v_o(t) = -L\frac{di}{dt} = \frac{-2}{5}(-3)5e^{-3t} = \mathbf{6}\, \boldsymbol{e}^{-3t}\ \boldsymbol{V}$$