Chapter 7, Problem 13.

In the circuit of Fig. 7.93,
$$v(t) = 80e^{-1000t} V \text{ for all } t > 0.$$

$$i(t) = 5e^{-1000t} \text{ mA for all } t > 0.$$

- (a) Find R, L, and τ
- (b) Calculate the energy dissipated in the resistance for 0<t<0.5ms.

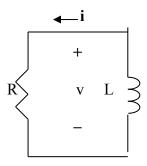


Figure 7.93 For Prob. 7.13.