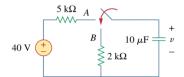
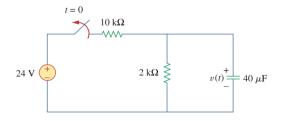
The switch in Fig. 7.84 moves instantaneously from A to B at t = 0. Find v for t > 0.



1.

The switch in Fig. 7.86 has been closed for a long time, and it opens at t = 0. Find v(t) for  $t \ge 0$ .



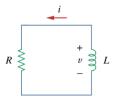
2.

In the circuit of Fig. 7.93,

$$v(t) = 20e^{-10^3 t} \text{ V}, \qquad t > 0$$

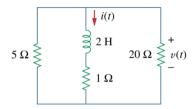
$$i(t) = 4e^{-10^3 t}$$
 mA,  $t > 0$ 

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



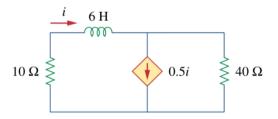
3.

Find i(t) and v(t) for t > 0 in the circuit of Fig. 7.102 if i(0) = 10 A.



4.

In the circuit of Fig. 7.99, find i(t) for t > 0 if i(0) = 2 A.



5.