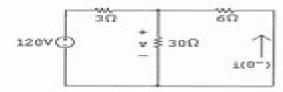
Response of First-Order RL and RC Circuits

Assessment Problems

AP 7.1 [a] The circuit for t < 0 is shown below. Note that the inductor behaves like a short circuit, effectively eliminating the 2Ω resistor from the circuit.



First combine the 30Ω and 6Ω resistors in parallel:

$$30||6 = 5 \Omega$$

Use voltage division to find the voltage drop across the parallel resistors:

$$v = \frac{5}{5+3}(120) = 75 \text{ V}$$

Now find the current using Ohm's law:
$$i(0^-) = -\frac{v}{6} = -\frac{75}{6} = -12.5 \text{ A}$$

- [b] $w(0) = \frac{1}{2}Li^2(0) = \frac{1}{2}(8 \times 10^{-3})(12.5)^2 = 625 \text{ mJ}$
- [c] To find the time constant, we need to find the equivalent resistance seen by the inductor for t > 0. When the switch opens, only the 2Ω resistor remains connected to the inductor. Thus,

$$\tau = \frac{L}{R} = \frac{8 \times 10^{-3}}{2} = 4 \, \text{ms}$$

[d]
$$i(t) = i(0^-)e^{t/\tau} = -12.5e^{-t/0.004} = -12.5e^{-250t} A$$
, $t \ge 0$

[e]
$$i(5 \text{ ms}) = -12.5e^{-250(0.005)} = -12.5e^{-1.25} = -3.58 \text{ A}$$



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