

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 $2\ \Omega$ resistor from the circuit.



First combine the $30\ \Omega$ and $6\ \Omega$ resistors in parallel:

$$30 \parallel 6 = 5\ \Omega$$

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:

$$i(0^-) = -\frac{v}{6} = -\frac{75}{6} = -12.5\ \text{A}$$

$$[b] \quad w(0) = \frac{1}{2} Li^2(0) = \frac{1}{2} (8 \times 10^{-3}) (12.5)^2 = 625\ \text{mJ}$$

[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 $2\ \Omega$ resistor remains connected to the inductor. Thus,

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

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

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



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