

## CHAPTER 4

### Exercises

E4.1 The voltage across the circuit is given by Equation 4.8:

$$v_c(t) = V_i \exp(-t / RC)$$

in which  $V_i$  is the initial voltage. At the time  $t_{1\%}$  for which the voltage reaches 1% of the initial value, we have

$$0.01 = \exp(-t_{1\%} / RC)$$

Taking the natural logarithm of both sides of the equation, we obtain

$$\ln(0.01) = -4.605 = -t_{1\%} / RC$$

Solving and substituting values, we find  $t_{1\%} = 4.605RC = 23.03$  ms.

E4.2 The exponential transient shown in Figure 4.4 is given by

$$v_c(t) = V_s - V_s \exp(-t / \tau)$$

Taking the derivative with respect to time, we have

$$\frac{dv_c(t)}{dt} = \frac{V_s}{\tau} \exp(-t / \tau)$$

Evaluating at  $t = 0$ , we find that the initial slope is  $V_s / \tau$ . Because this matches the slope of the straight line shown in Figure 4.4, we have shown that a line tangent to the exponential transient at the origin reaches the final value in one time constant.

E4.3 (a) In dc steady state, the capacitances act as open circuits and the inductances act as short circuits. Thus the steady-state (i.e.,  $t$  approaching infinity) equivalent circuit is:



From this circuit, we see that  $i_s = 2$  A. Then ohm's law gives the voltage as  $v_s = Ri_s = 50$  V.

# Chapter 4 Exercises Msi

**J Spring**



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