

Chapter 7, Solution 15

$$(a) \quad R_{Th} = 2 + 10 // 40 = 10\Omega, \quad \tau = \frac{L}{R_{Th}} = 5 / 10 = \underline{0.5s}$$

$$(b) \quad R_{Th} = 40 // 160 + 48 = 40\Omega, \quad \tau = \frac{L}{R_{Th}} = (20 \times 10^{-3}) / 80 = \underline{0.25 \text{ ms}}$$

(a) **10 Ω , 500 ms** (b) **40 Ω , 250 μs**