**Concept Question 7-10:** Why is convolution property #7 in Table 7-4 (duration) different in discrete time?

Because duration is defined differently in discrete time and continuous time. In continuous time, the duration of interval  $3 \le t \le 5$  is 5 - 3 = 2, while in discrete time the duration of  $3 \le n \le 5$  is 5 - 3 + 1 = 3. This is because the elements of  $3 \le n \le 5$  are  $\{3,4,5\}$ .