

$$x[n] = x_a(nT_s)$$

Called; (sequence)

1. Why Sequence?

2. Absolute time is irrelevant

Figure 2.1

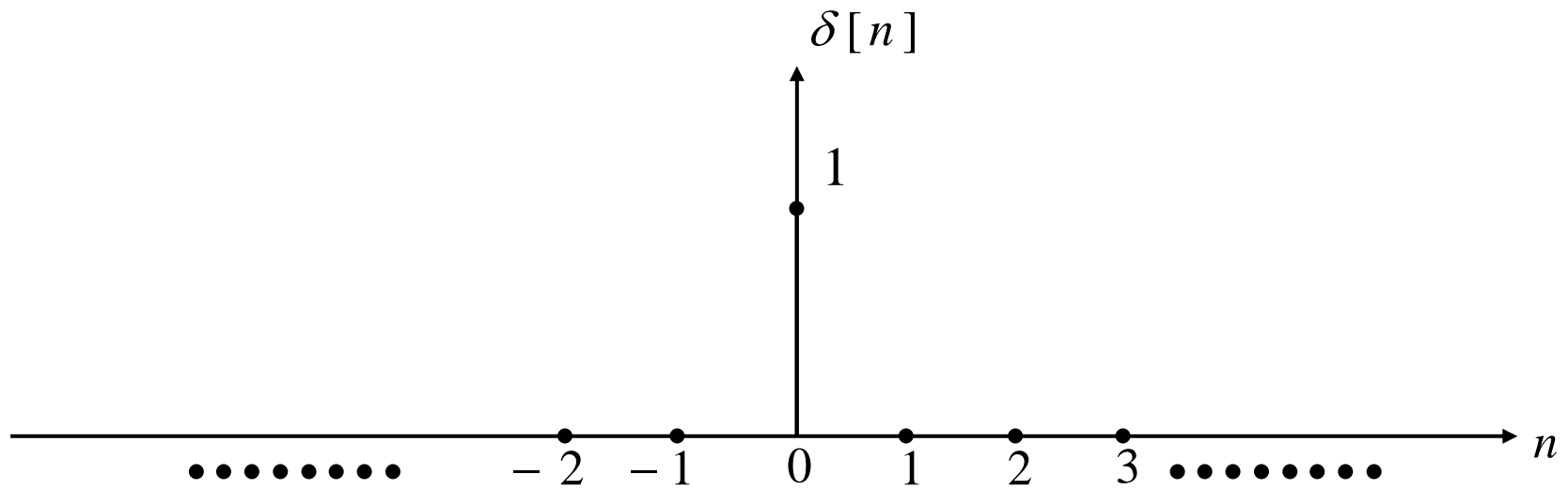


Figure 2.2

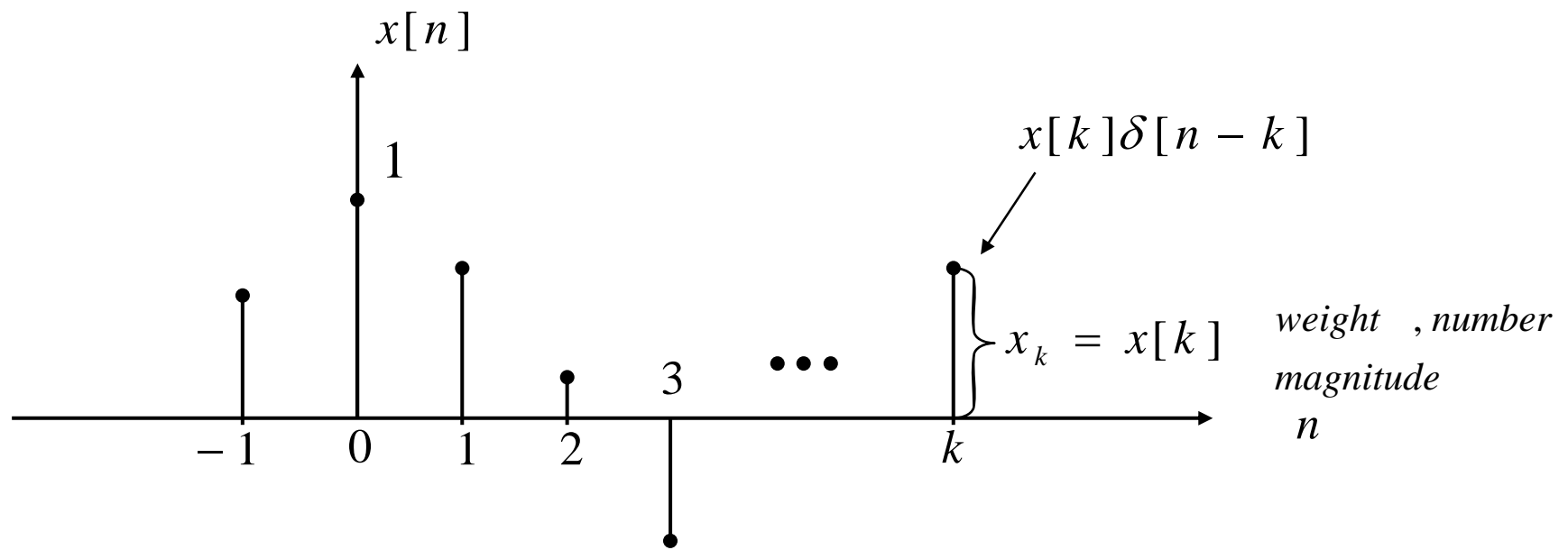


Figure 2.3

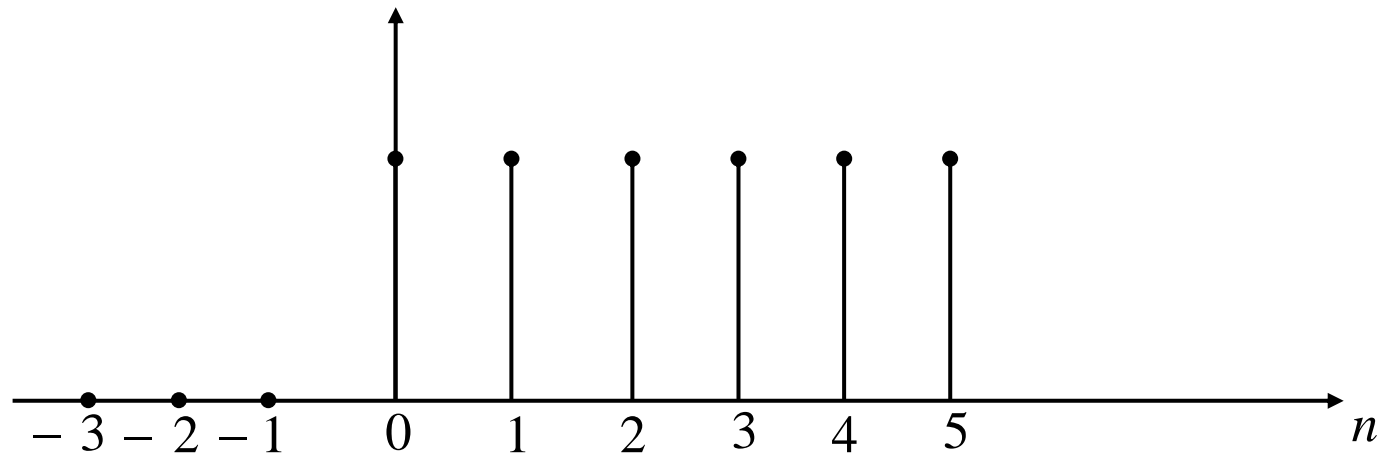


Figure 2.4

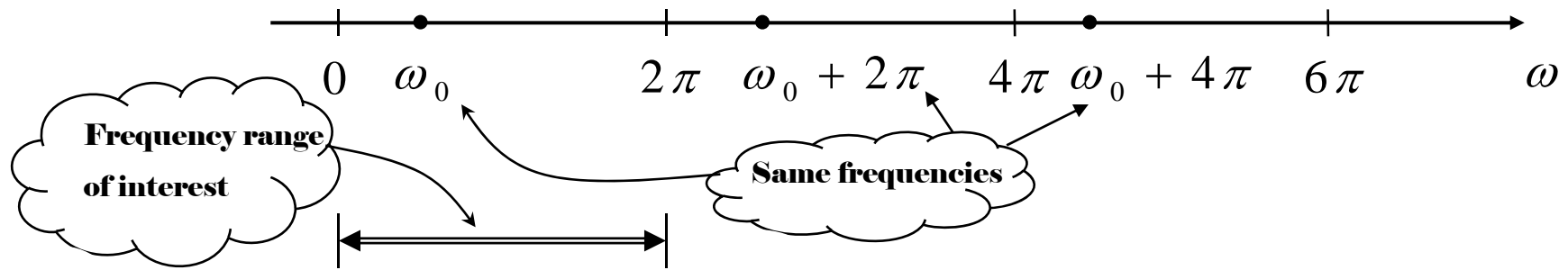


Figure 2.5

$$T = \frac{2\pi}{\Omega_0} = \frac{2\pi}{1} = 2\pi \text{ (sec)}$$

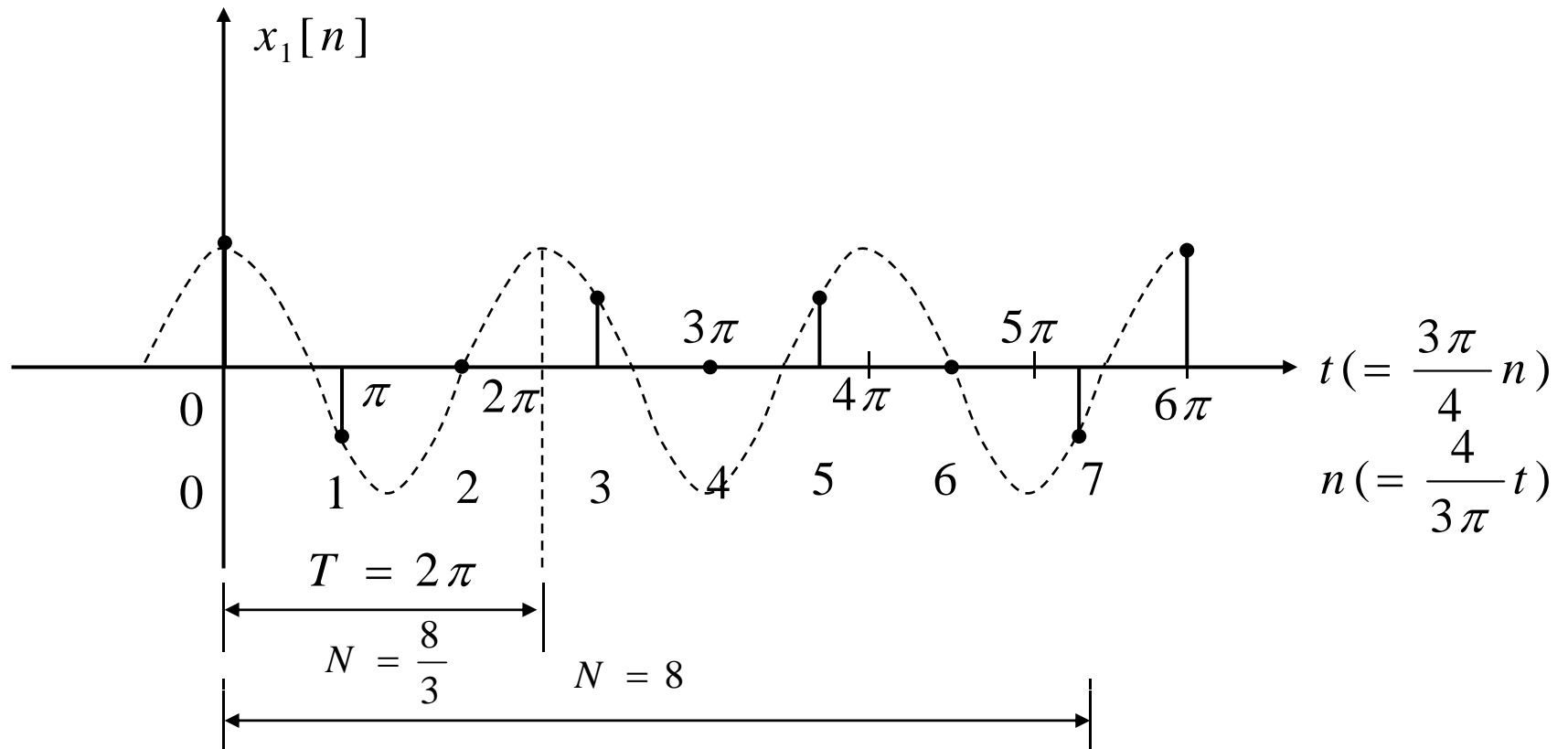


Figure 2.6

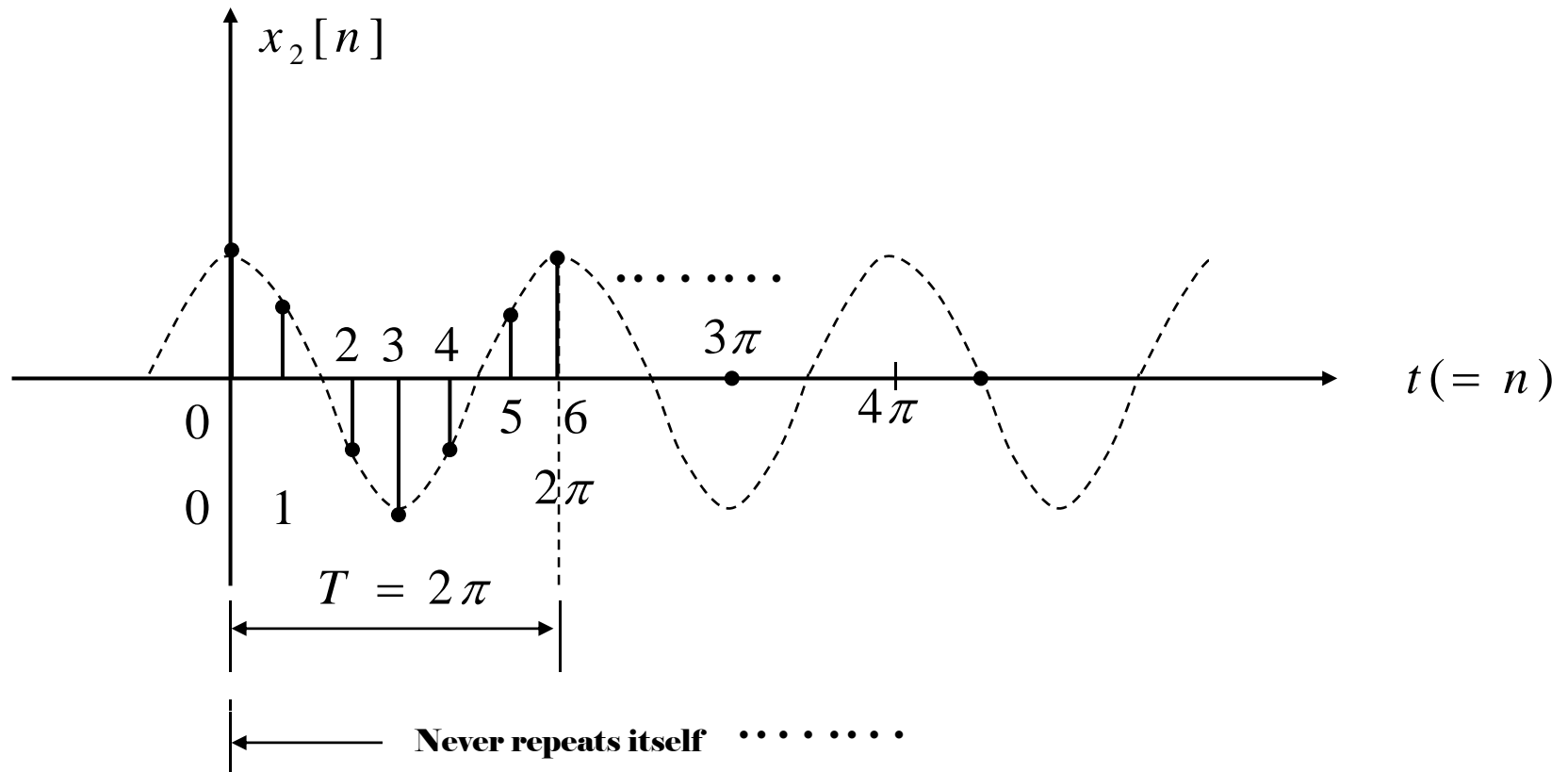
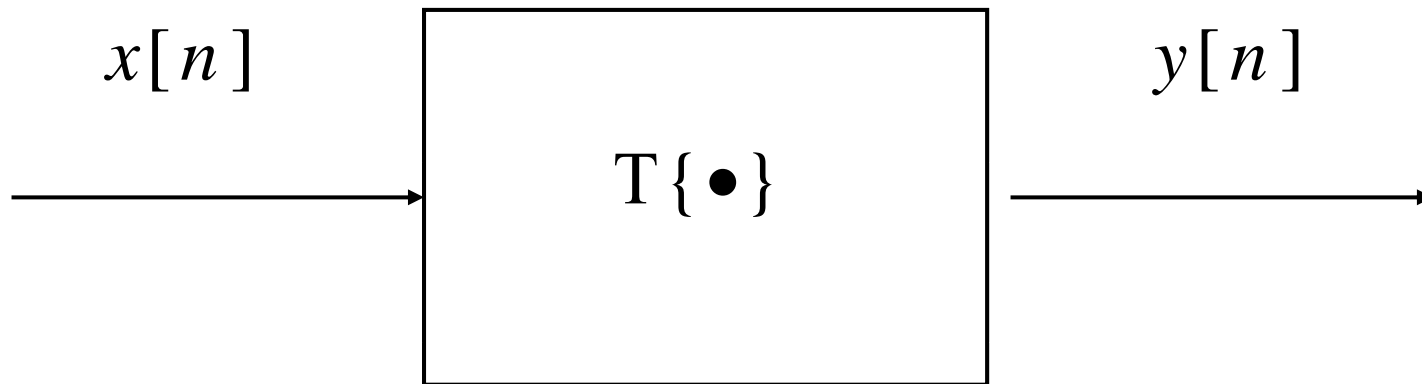


Figure 2.7



$$y[n] = T\{x[n]\}$$

Figure 2.8

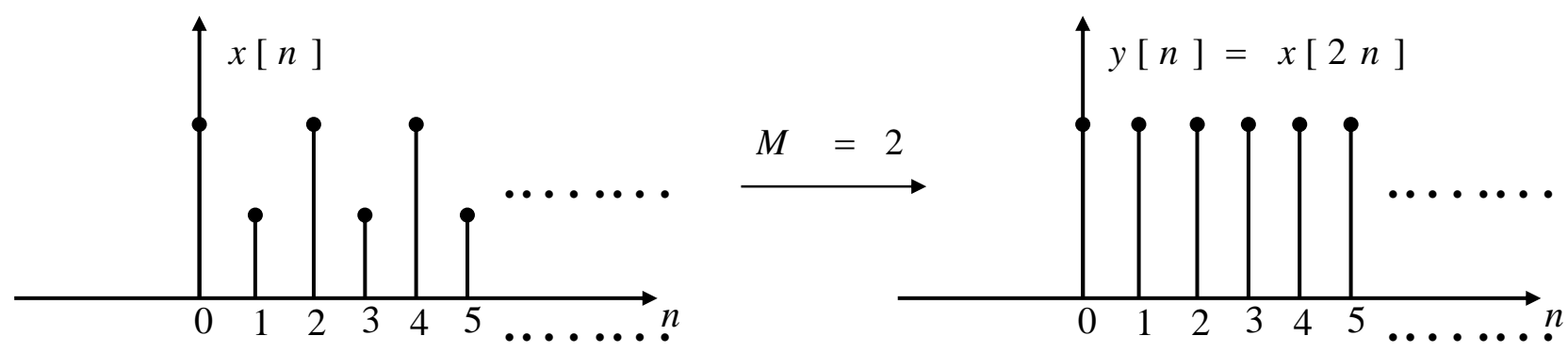
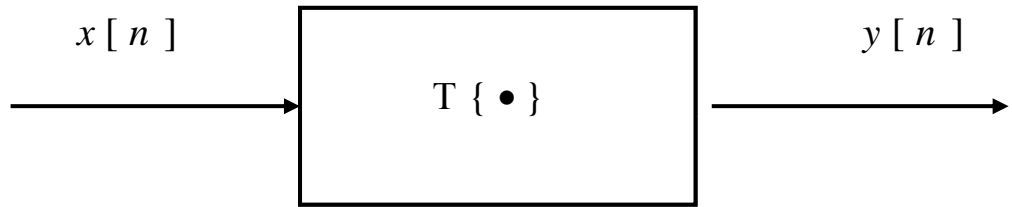


Figure 2.9

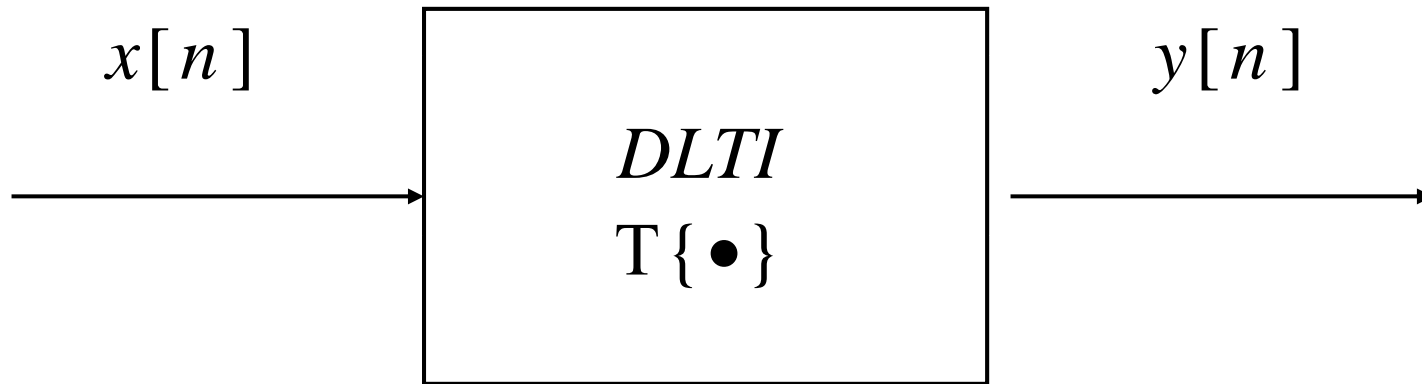


Figure 2.10

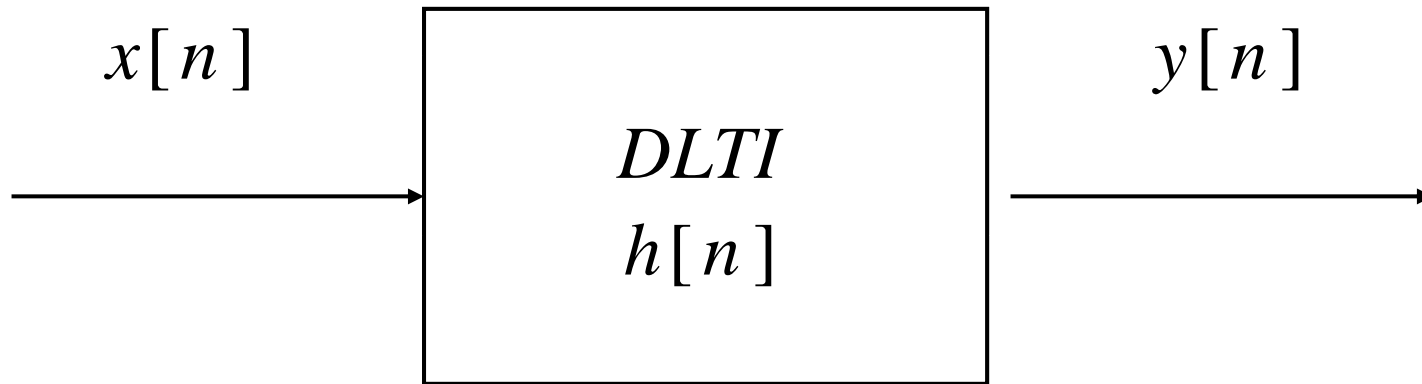


Figure 2.11

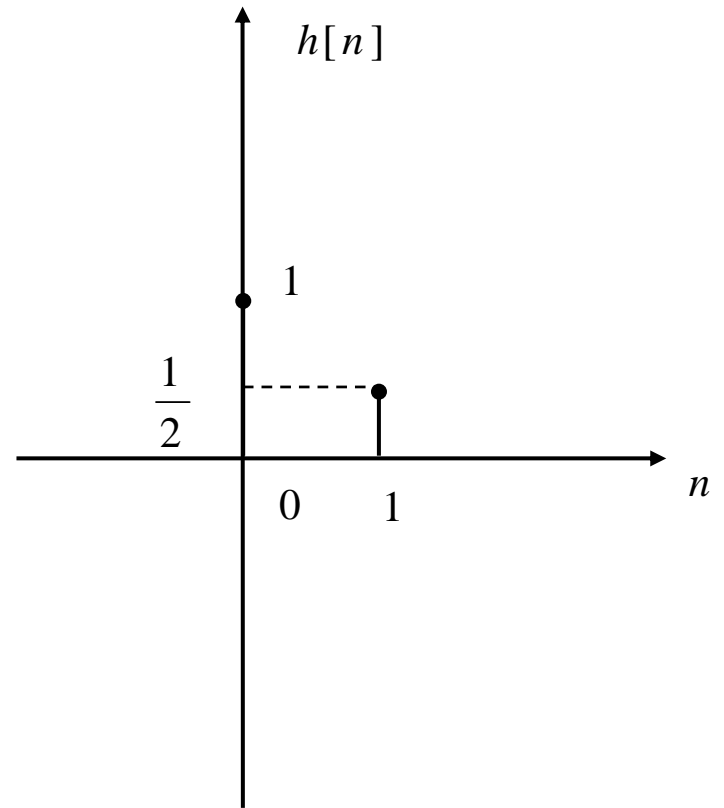
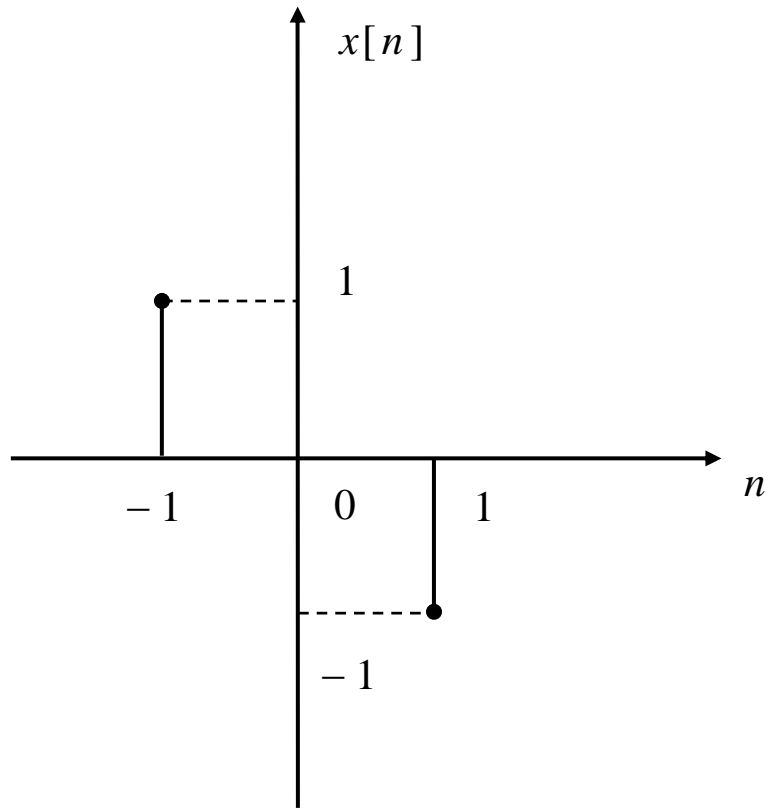
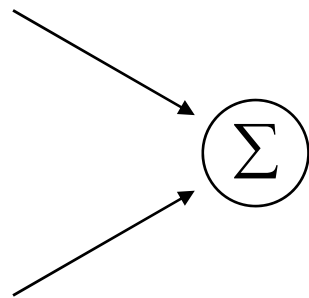
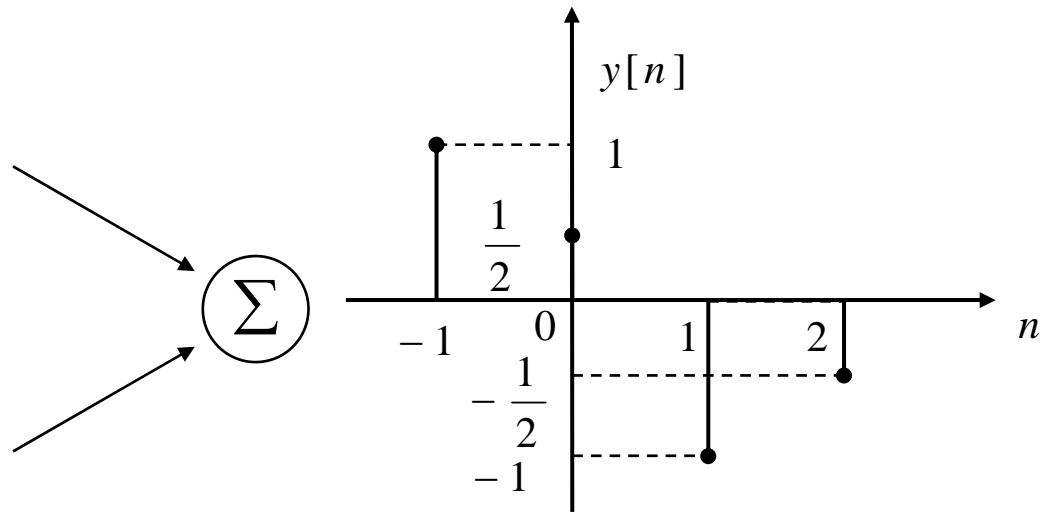
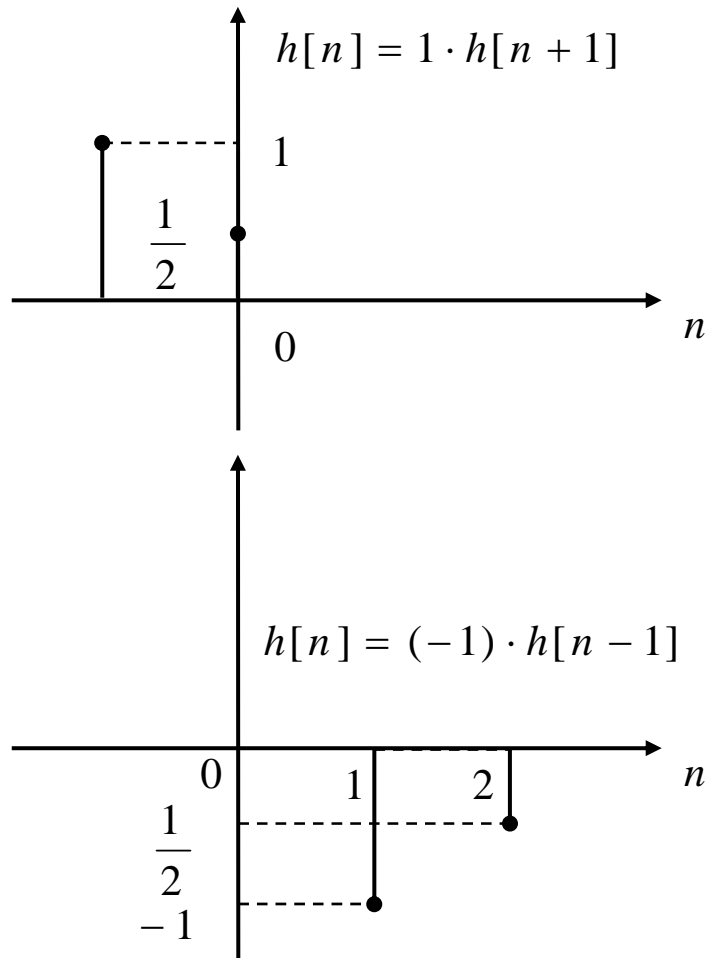


Figure 2.12



Good for evaluating $y[n]$ for the cases where $x[n]$ & $h[n]$ are of finite duration

Figure 2.13

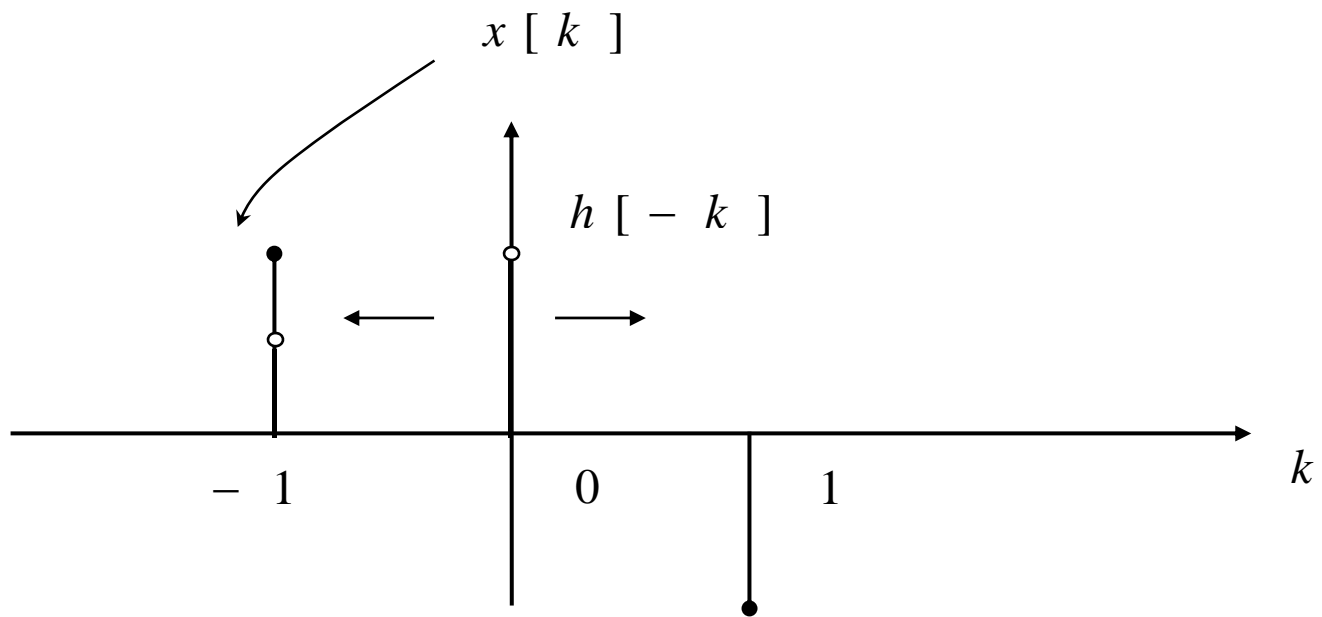


Figure 2.14

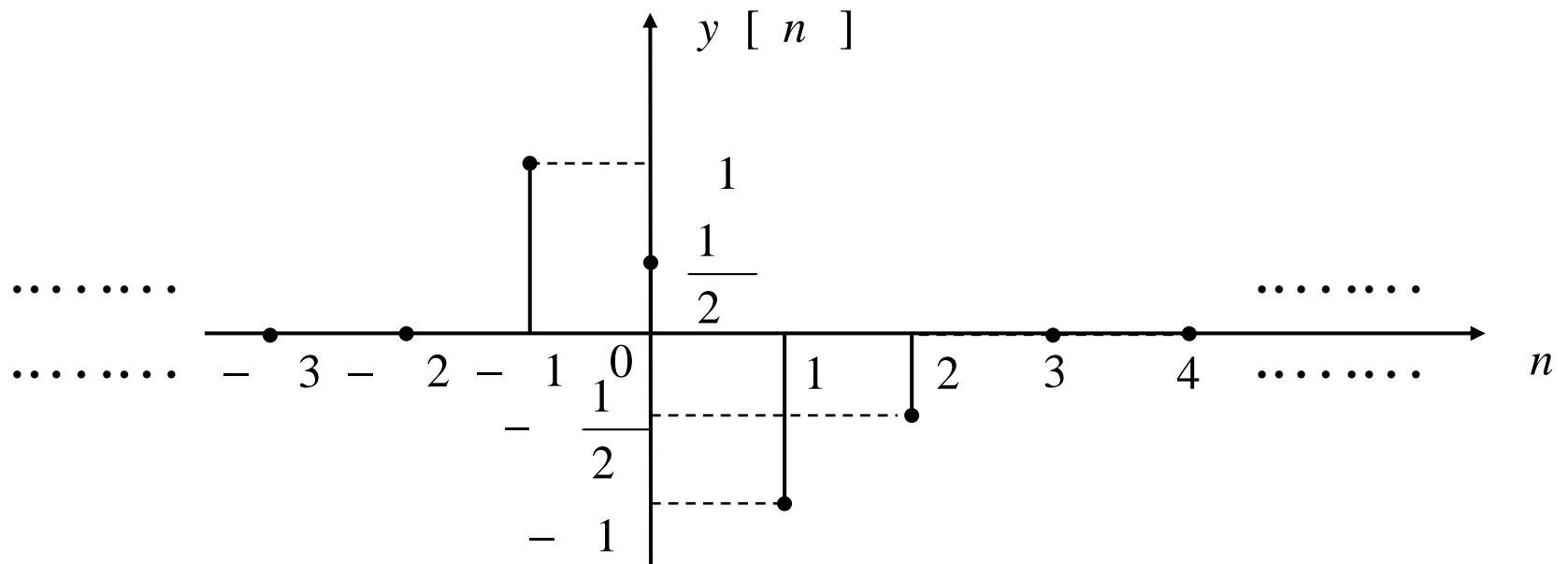


Figure 2.15

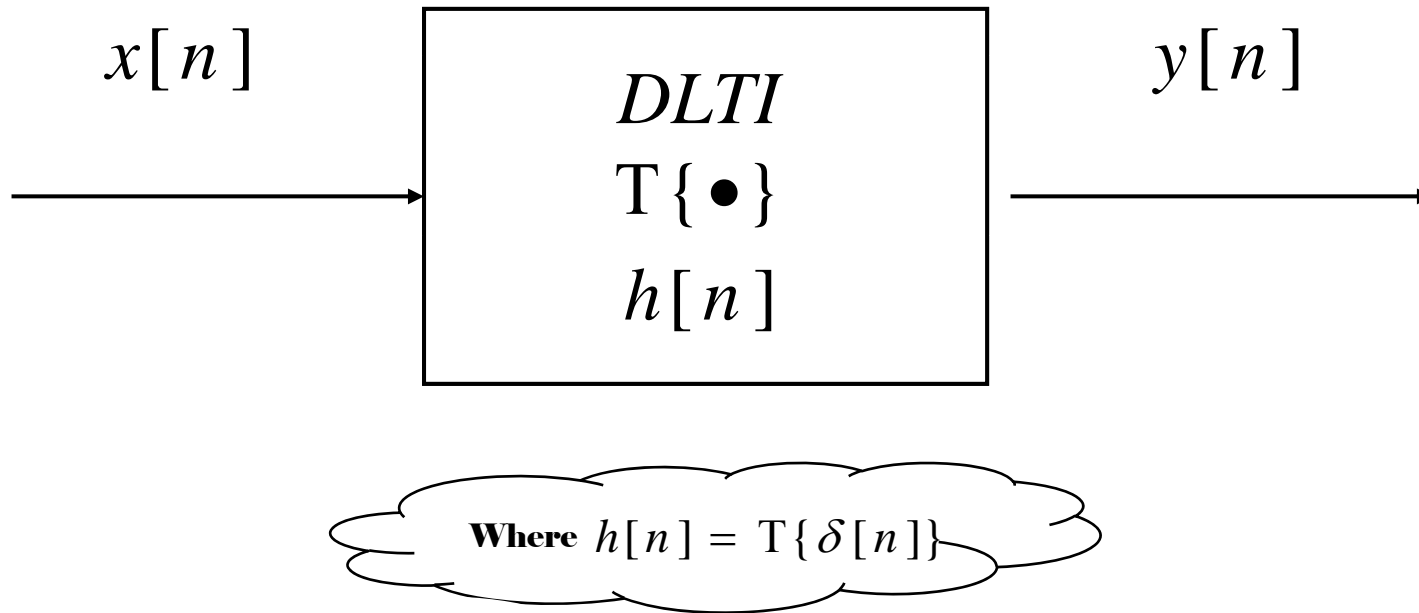


Figure 2.16

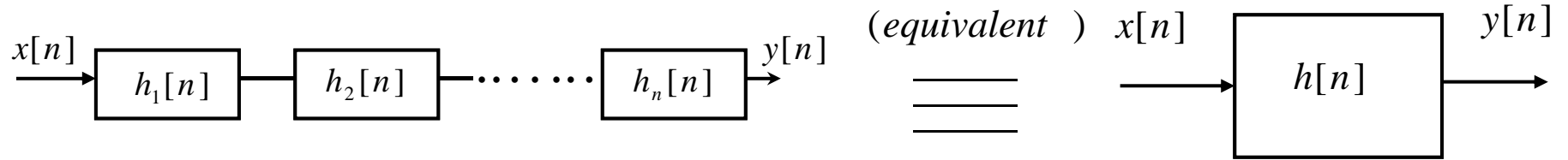


Figure 2.17

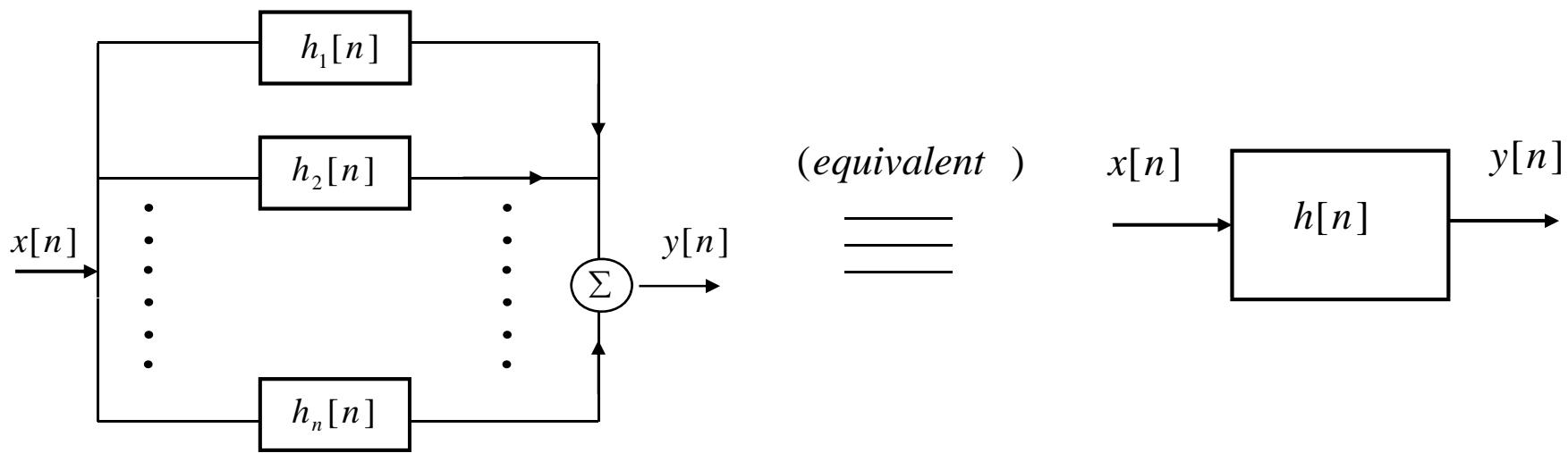


Figure 2.18

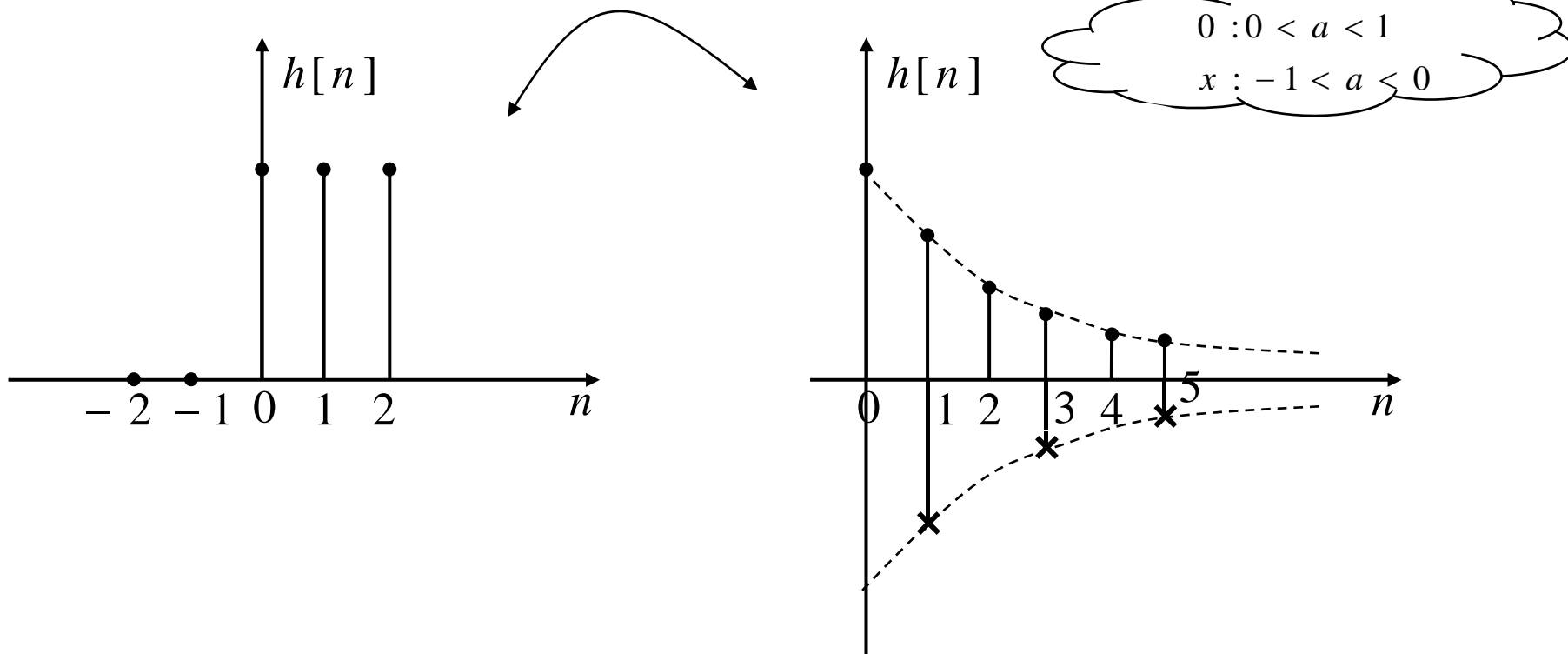


Figure 2.19

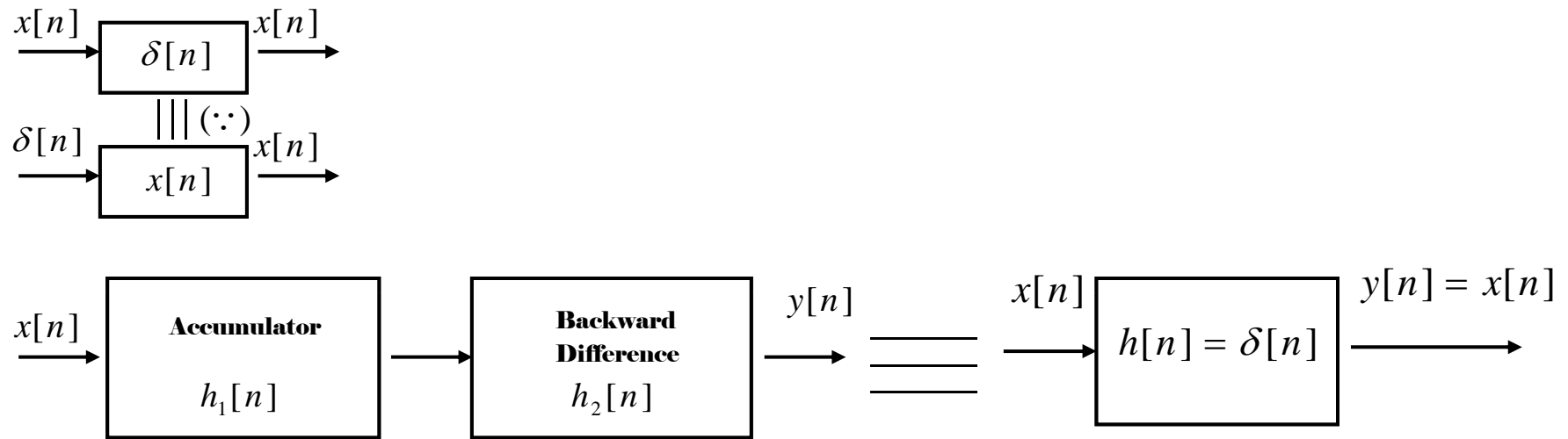


Figure 2.20

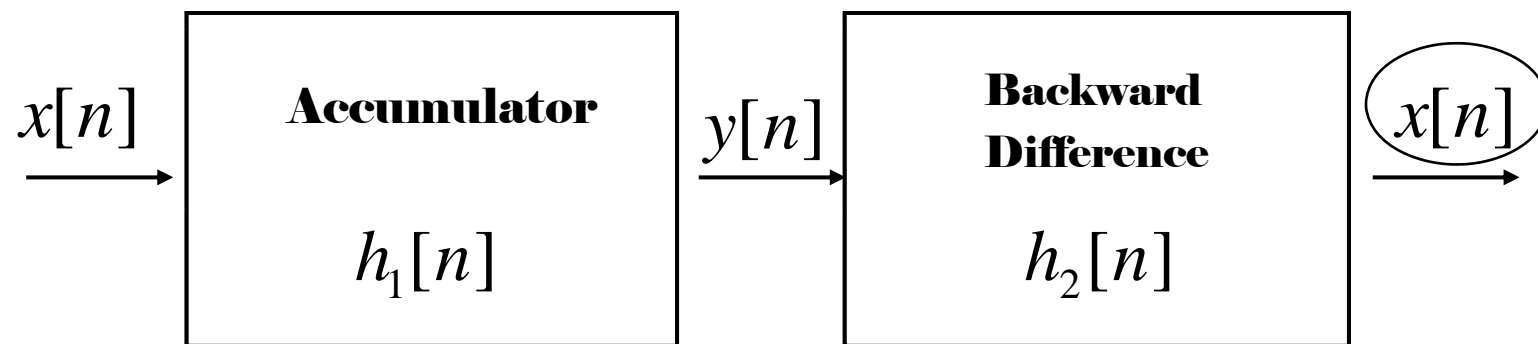


Figure 2.21

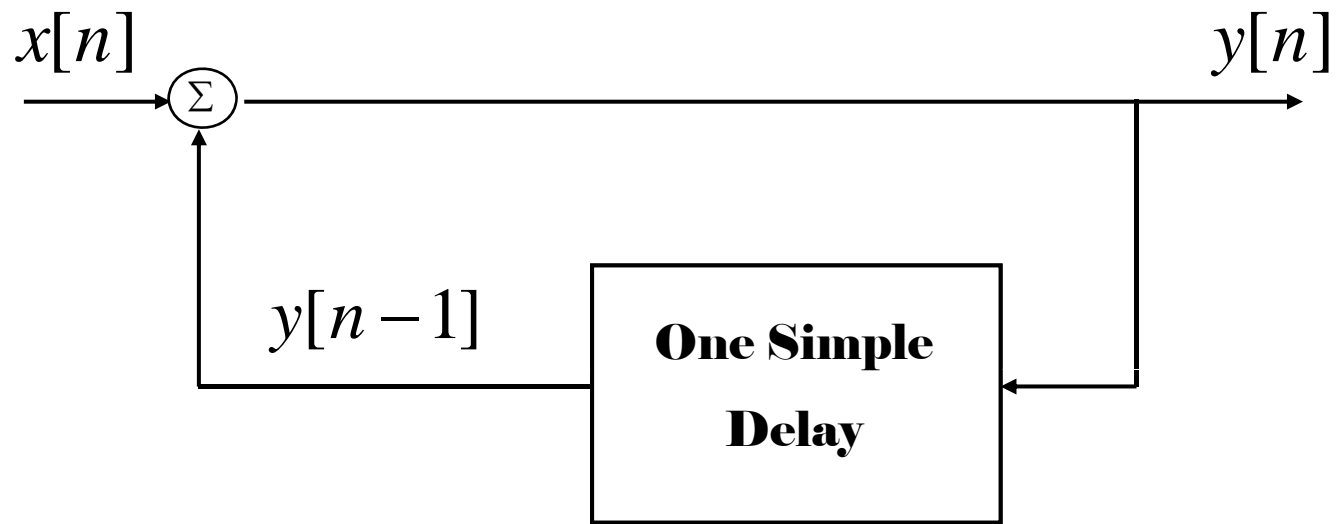


Figure 2.22

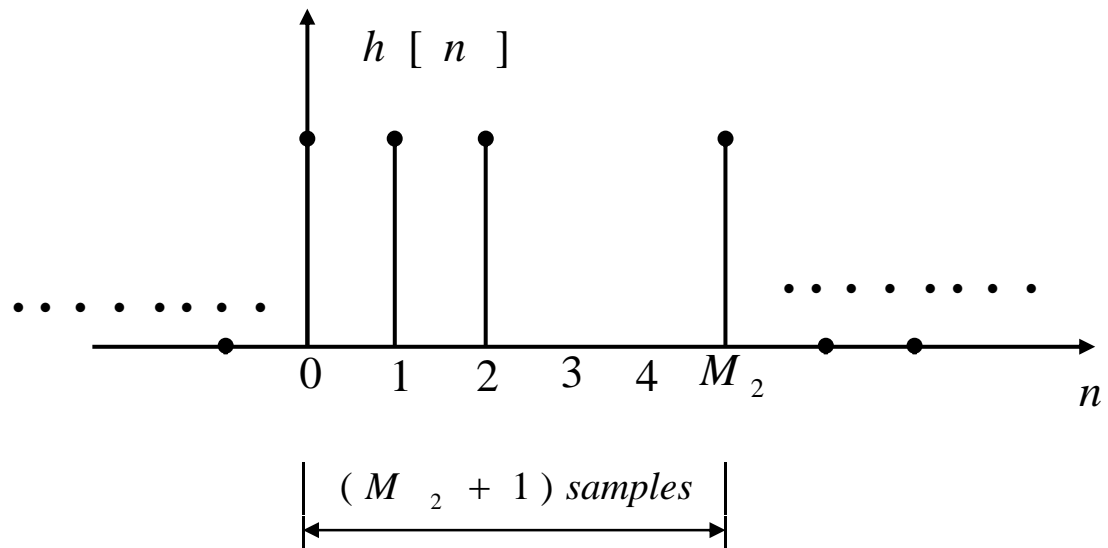


Figure 2.23

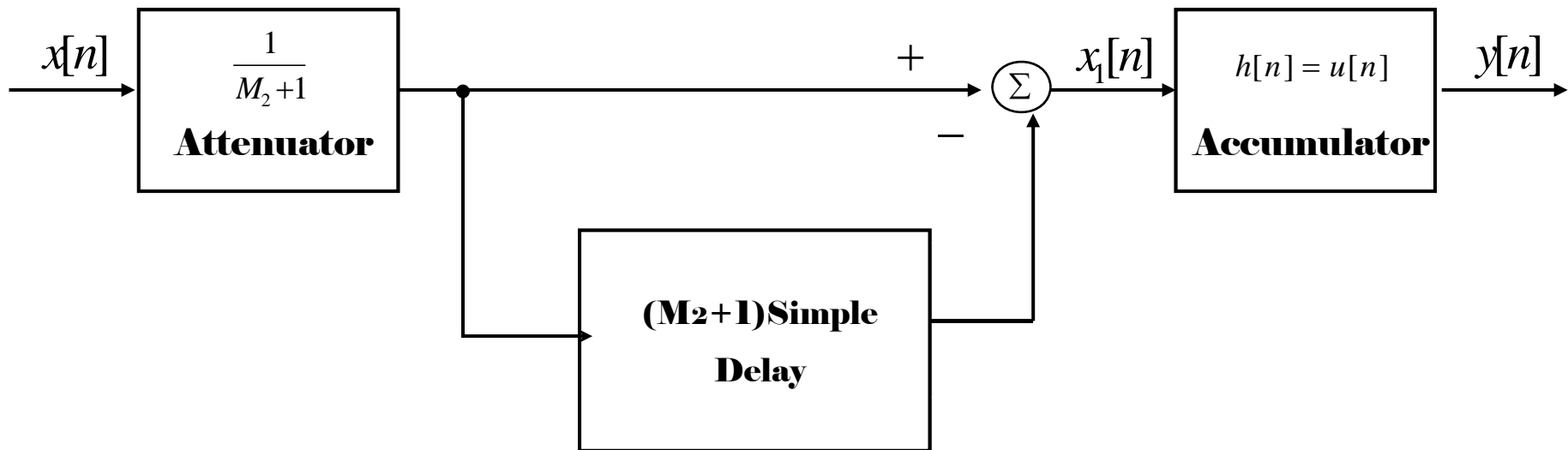


Figure 2.24

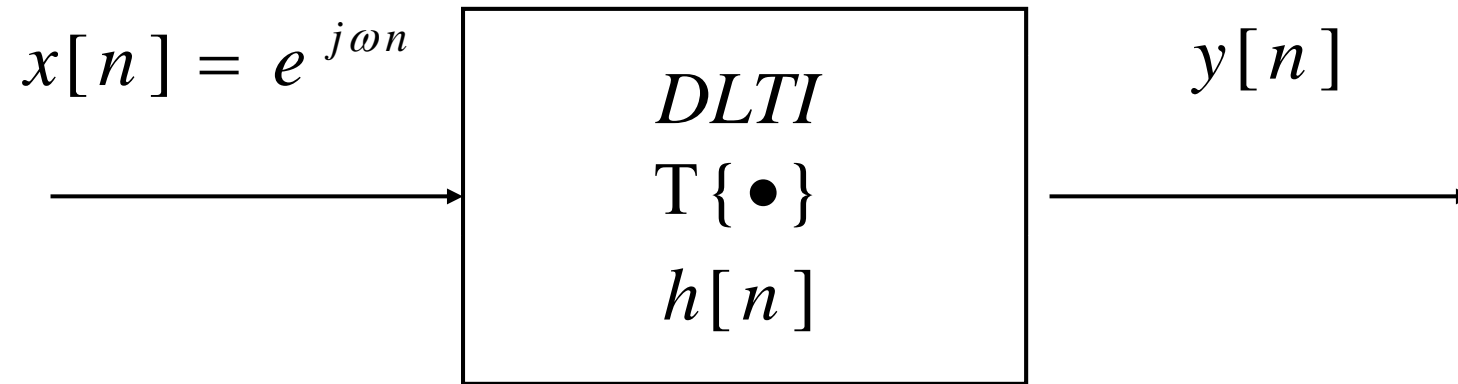


Figure 2.25

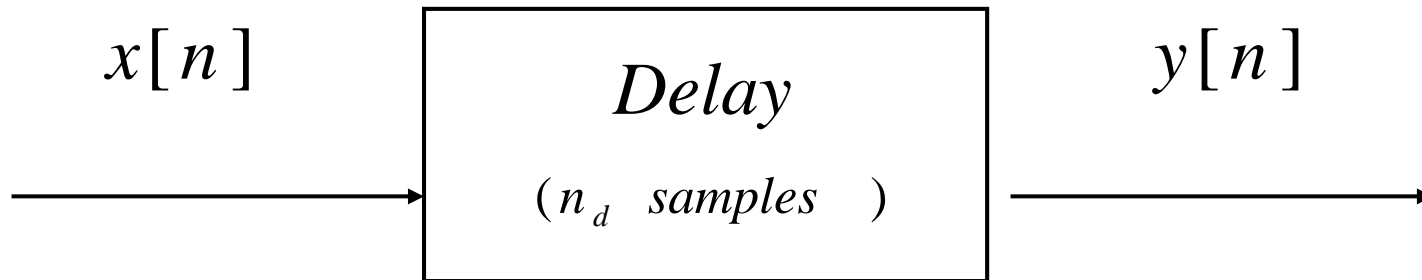


Figure 2.26

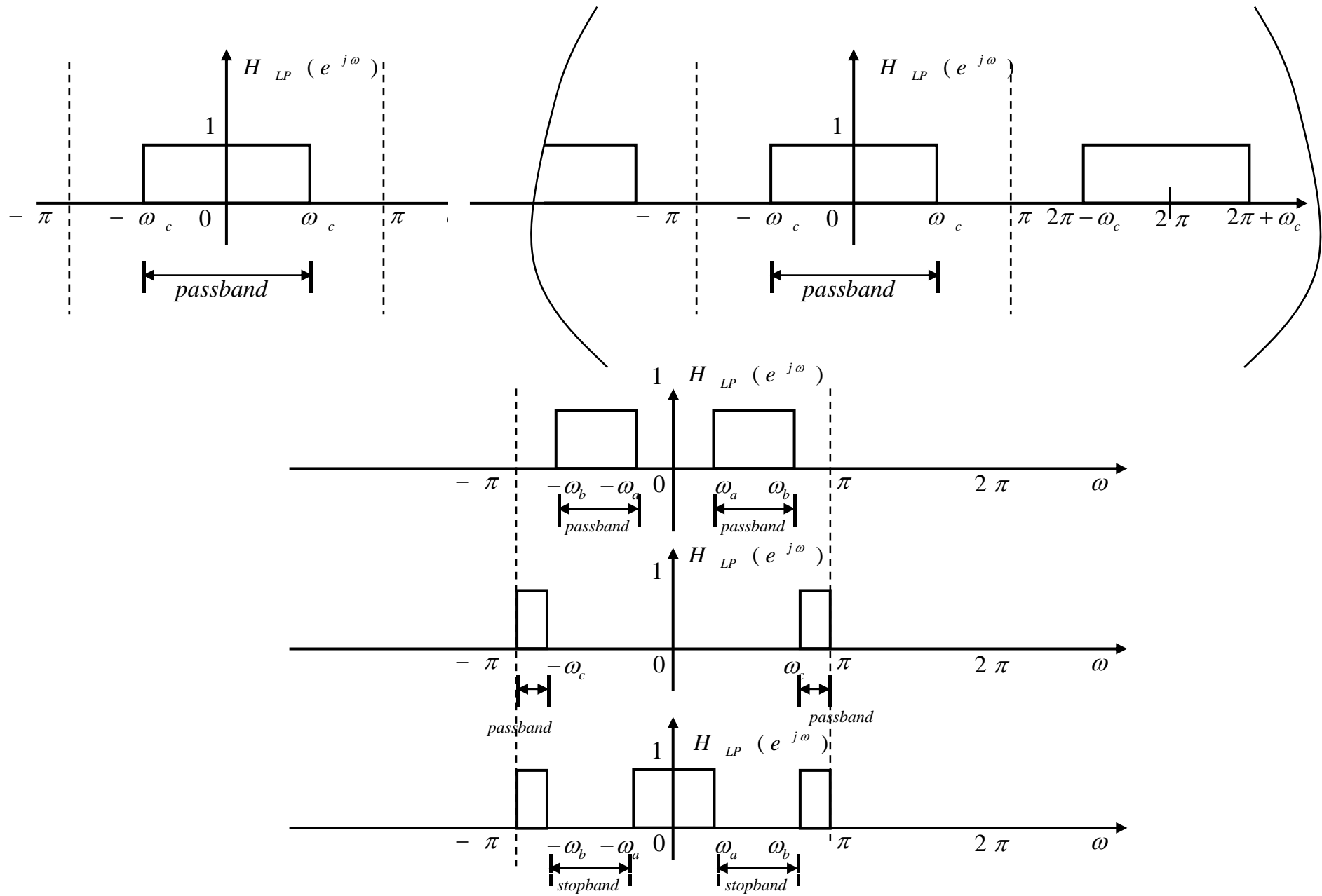


Figure 2.27

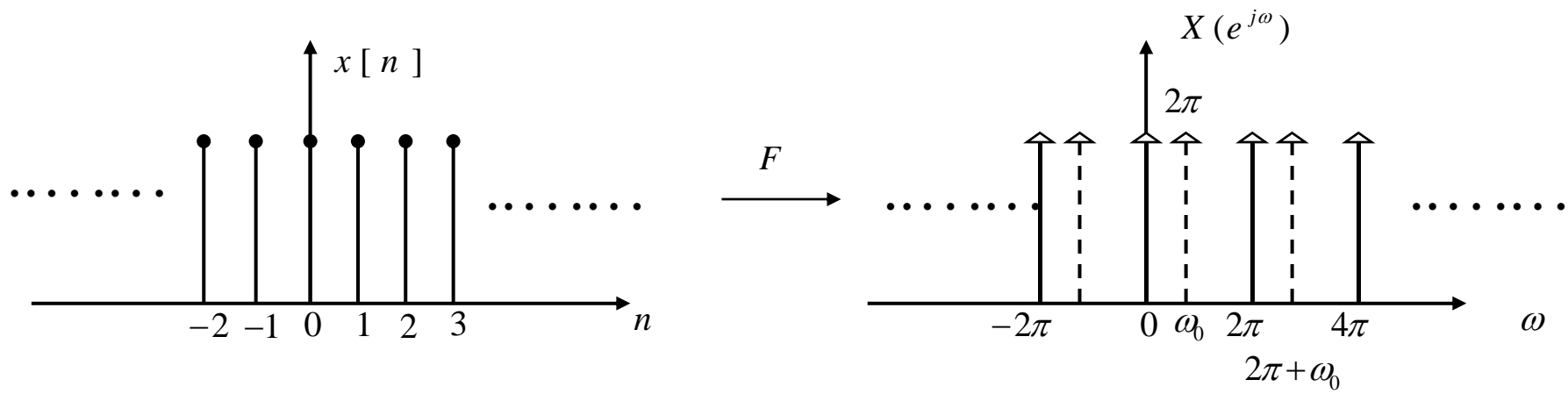


Figure 2.28