At the top of the figure, handwritten: $\cos(\hat{\omega} n)$ $0 < \hat{\omega} \leq 2\pi$: unique in this interval.

$x[n] = \cos(0 \cdot n) = 1$

(a)

$x[n] = \cos(\pi n/8)$

(b)

$x[n] = \cos(\pi n/4)$

(c)

$x[n] = \cos(\pi n/2)$

(d)

$x[n] = \cos \pi n$

(e)

$x[n] = \cos(3\pi n/2)$

(f)

$x[n] = \cos(7\pi n/4)$

(g)

$x[n] = \cos(15\pi n/8)$

(h)

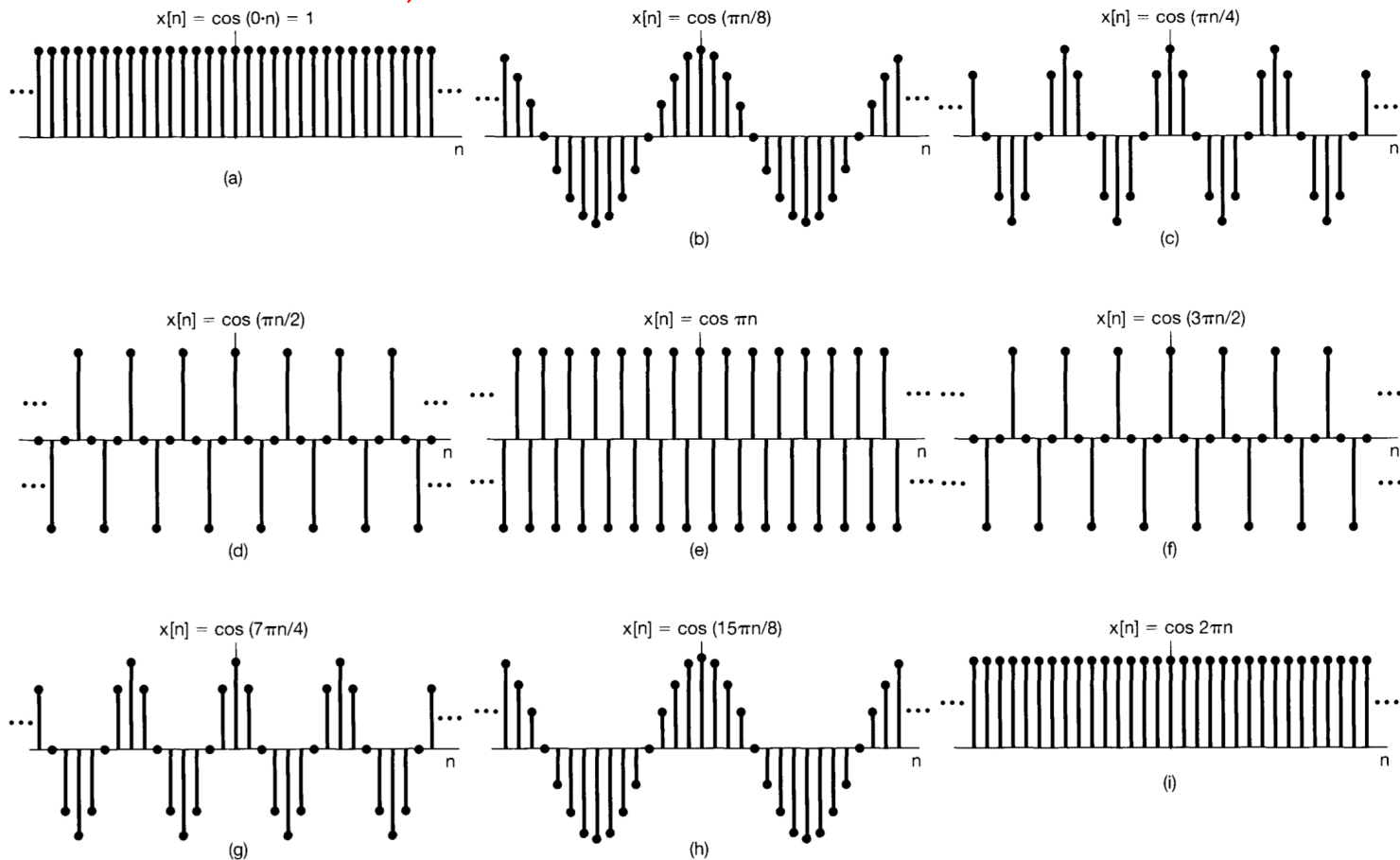$x[n] = \cos 2\pi n$

(i)

Figure 1.27   Discrete-time sinusoidal sequences for several different frequencies.