Fraction to emaple M

Chapter-02

2.1 Discrete time mignant

1 Graphical representation:

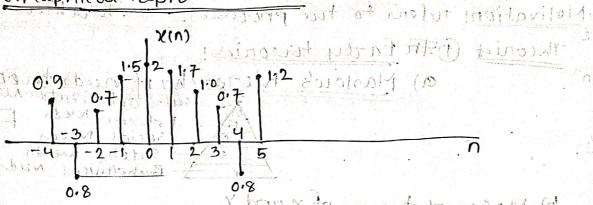


Figure 2.1.1. Ginaphical representation of a discrete-time nignal,

Alternative representations:

1) functional representation, such as suit it will essent the

$$\chi(n) = \begin{cases} 1 & \text{for } n = 1.3 \\ 4 & \text{for } n = 2 \\ 0, & \text{elsewhere} \end{cases}$$

2) Tabuar representation, nuch as

$$\frac{n}{x(n)} = \frac{-2-1}{0.00} = \frac{23}{0.00} = \frac{45}{0.00} = \frac{5}{0.00} = \frac{5}{0.00}$$

3 sequence representations

An infinite-duration nignal on requence with the time origin (n=0) indicated by the symbol 1 is represented as,

$$x(n) = \{--.0,0,1,4,1,0,0,-...\}$$

A requence k(n), which is zero for nLo, can be represented as,

$$x(n) = \{0,1,4,1,0,0...\}$$

