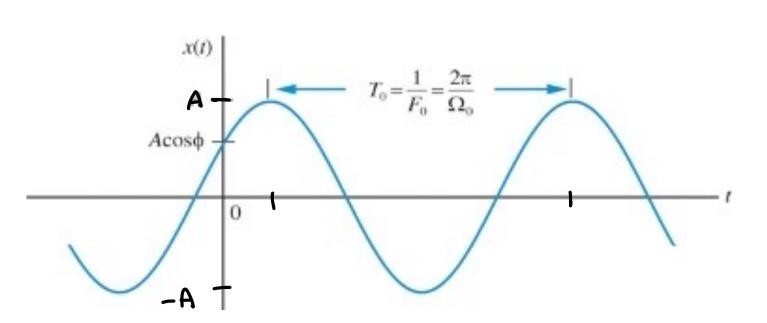
Fundamental period of x(t) is T_o $T_o = \frac{1}{F_o}, \text{ where } F_o \text{ is the fundamental frequency}$ $\Omega_o = 2\pi F_o \text{ is the fundamental angular frequency}$ $x(t) = x(t+T_o) = x(t+2T_o) = x(t+3T_o) - \cdots$



Fundamental period of X[n] is No

X[n] = X[n+N] = X[n+3N] = X[n+3N] = X[n+3N]

We can also use " $N_0 = \frac{1}{f}$ " in discrete-

time but with some care

fo is the normalized frequency = Fs

So its possible for $f_0 = \frac{4}{5}$, then

But No can not be 5/4 since it has to be an integer value. X[n+=] doesn't make sonse

No= K is what ever value

makes No can integer

$$K=2$$
, $\frac{2}{50}=(2)(\frac{5}{4})=\frac{5}{2}$

$$K=4$$
, $\frac{4}{f_0}=(4)(\frac{5}{4})=5=N_0$

If
$$f_0 = \frac{1}{a0}$$
, then $N_0 = a0$

