HW 2

$\omega_0 n$

$\omega_0 = 0, 0.2\pi, 0.4\pi, \cdots, 0.8\pi, \pi$

$1.2\pi, \cdots\cdots, 1.8\pi, 2\pi$

For all cases, find its N,

and hand-plot the sequence.

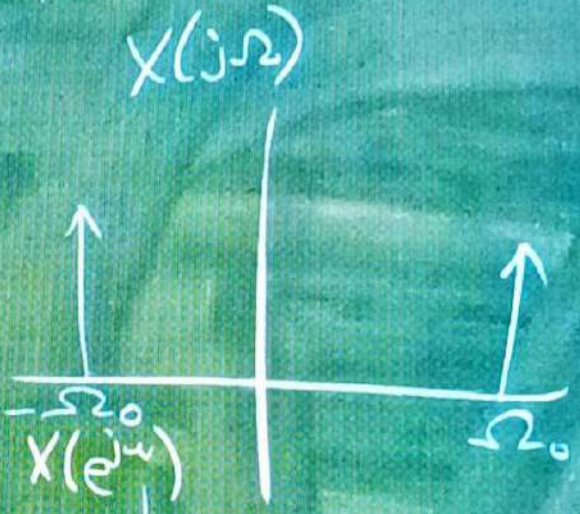
Due date to be announced.

$\omega_0 = \Omega_0 T = 2\pi \frac{\Omega_0}{\Omega_T}$

rad or rad/sample

HW 2 ②

$x(t) = \cos \Omega_0 t$



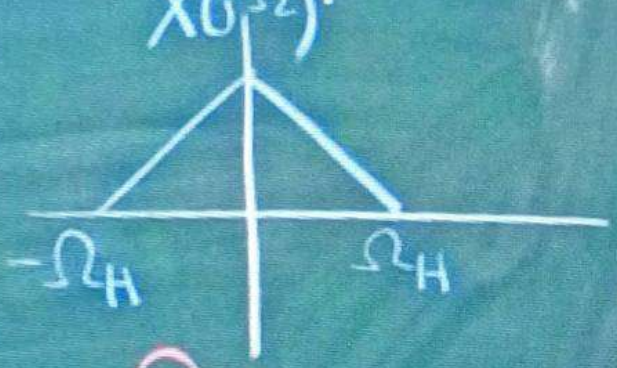
$x[n] = \cos \omega_0 n$

Suppose

$f_T = 1.5 f_0,\ 2f_0,\ 3f_0,\ 10 f_0$

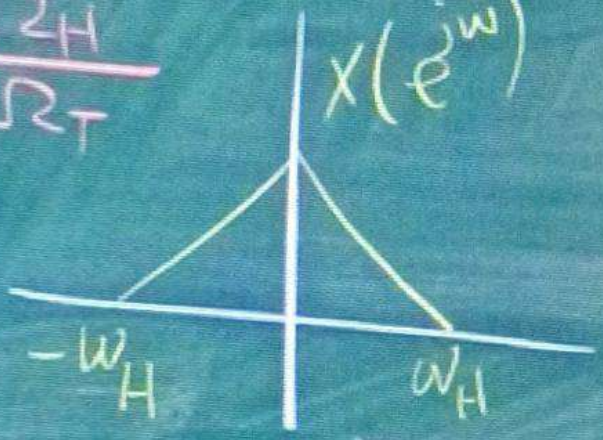
For each case, plot :
common and its spectrum

(3) $x(t)$ with



$$\omega_H = 2\pi \frac{\Omega_H}{\Omega_T}$$

Suppose $x[n]$ with



For each case, provide the spectrum $X(e^{j\omega})$