

REVIEW EXERCISE

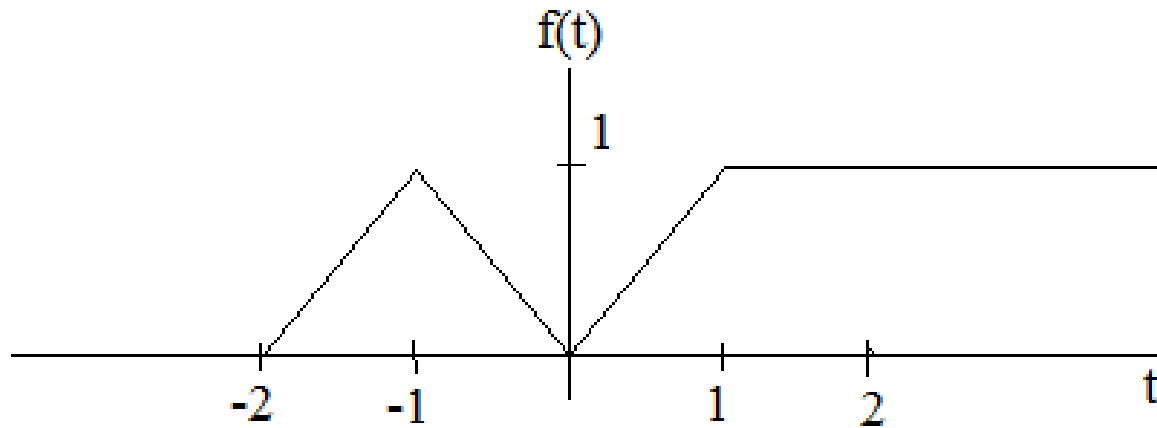
Problem-1

- Draw the signal below and determine whether it is periodic or not? If the signal is periodic, what is the fundamental period?

$$x[n] = \sum_{k=-\infty}^{\infty} \{\delta[n - 4k] - \delta[n - 1 - 4k]\}$$

Problem-2

- Determine and sketch the even and odd parts of the signal depicted in figure below



Problem-3

➤ Determine the values of P_∞ and E_∞ for each of the following signals:

a) $x_1(t) = e^{-2t}u(t)$

b) $x_2(t) = e^{j(2t+\pi/4)}$

c) $x_1[n] = \left(\frac{1}{2}\right)^n u[n]$