

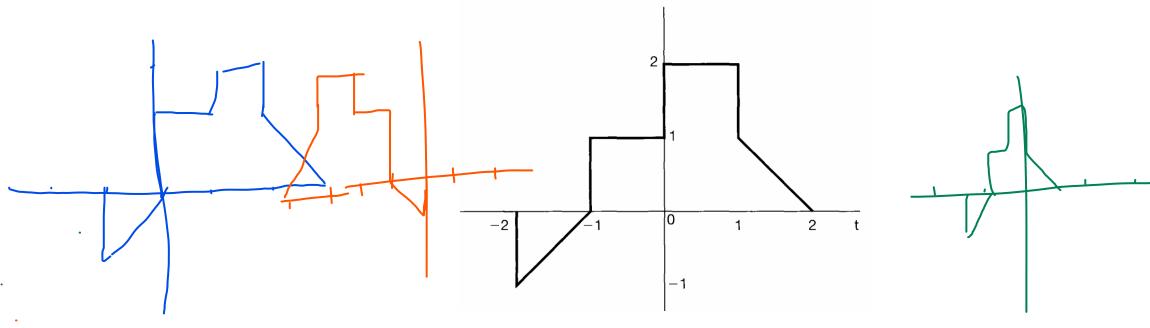
Practice Problem

REFERENCE:

CHAPTER-01(OPENHEIM)

CHAPTER-02(PROAKIS)

Problem-1



Obtain the following signal for given x(t) above.

(a)
$$x(t-1)$$

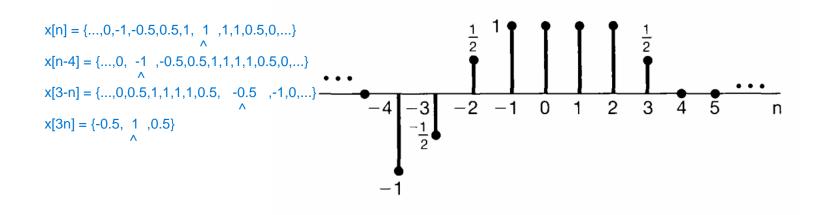
(b)
$$x(2-t)$$

(c)
$$x(2t+1)$$



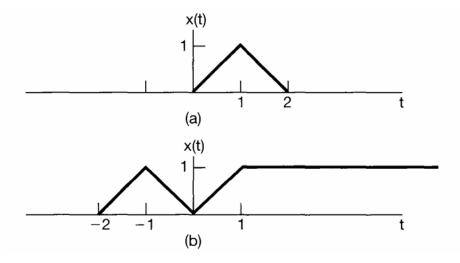
Problem-2

For the following diagram, determinei) x[n] ii) x[n-4] iii) x[3-n] iv) x[3n]



Problem-3

Determine and sketch the even and odd parts of the signals



Formula:
$$x_e(t) = \frac{1}{2}[x(t) + x(-t)]$$
 and $x_o(t) = \frac{1}{2}[x(t) + x(-t)]$

$\chi_{e}(n) = \frac{1}{2}(\kappa(n) + \chi(-n))$ Problem-4 $\chi_{o}(n) = \frac{1}{2}(\kappa(n) - \chi(-n))$

