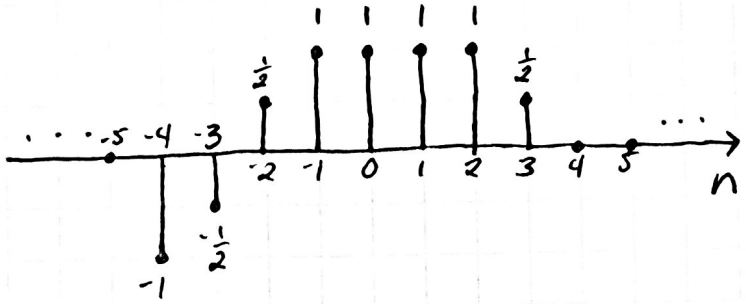
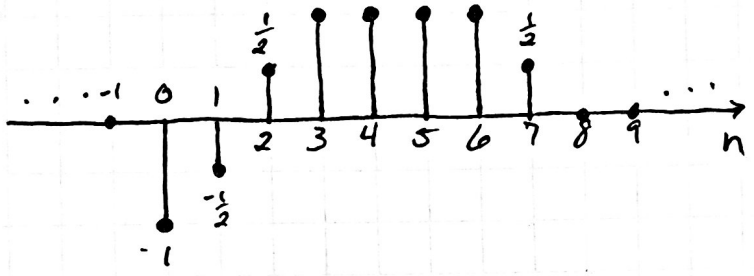
1.22



$x[n]$

~~(right by 4)~~

a.



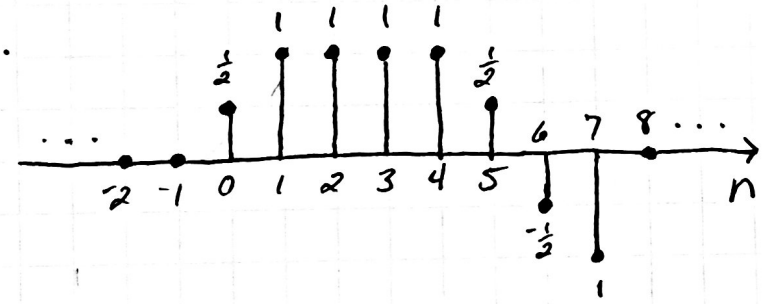
$x[n-4]$

~~(left by 3~~

~~flip about y axis)~~

(right by 4)

b.

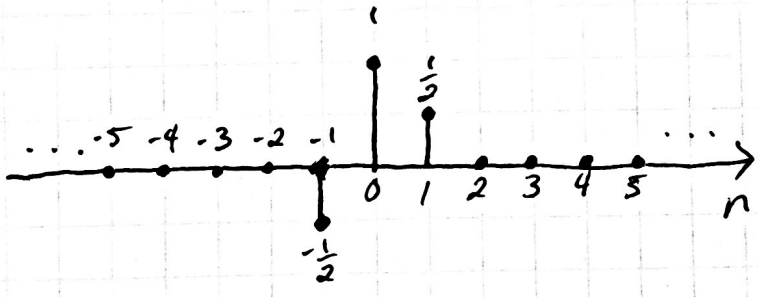


$x[3-n]$

(left by 3

flip about y-axis)

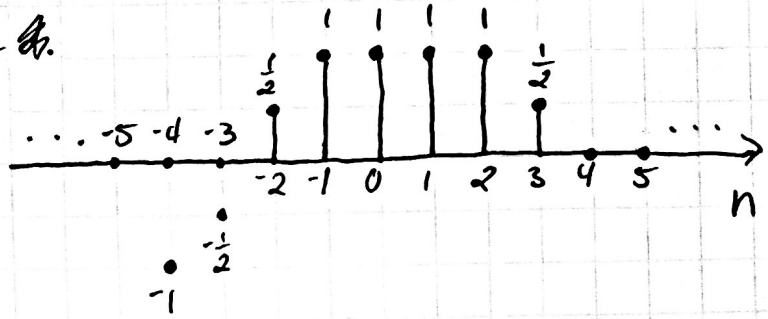
c.



$x[3n]$

(scale x-axis by $\frac{1}{3}$)

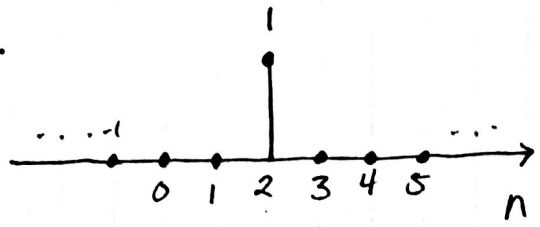
e&f.



$x[n]u[3-n]$

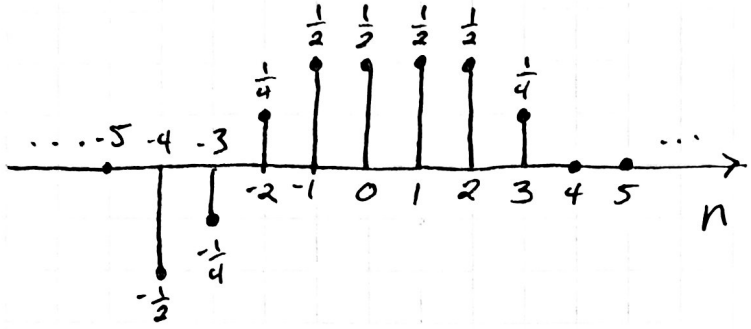
(mult. $x[n]$ with $u[3-n]$)

f.

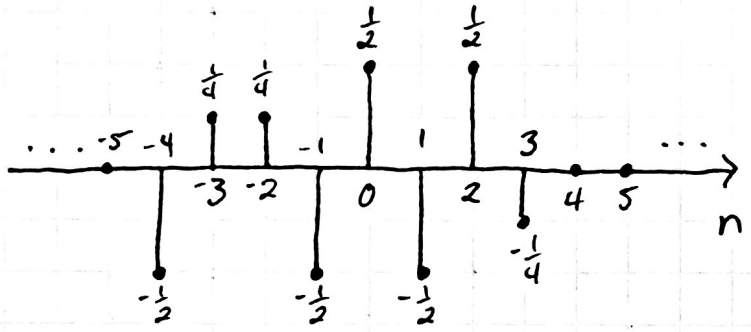


$x[n-2]\,\delta[n-2]$
(mult. impulse at 2)

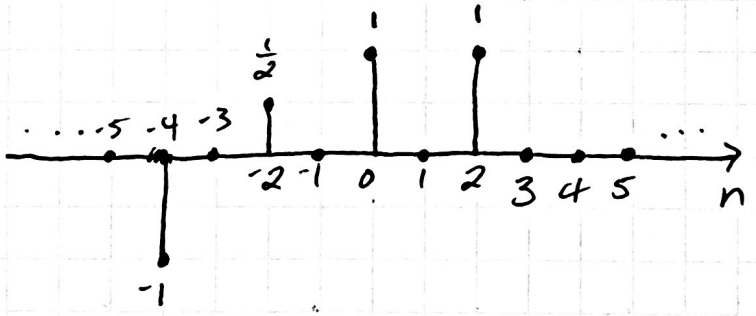
g.



$\frac{1}{2}x[n]$



$\frac{1}{2}(-1)^n x[n]$

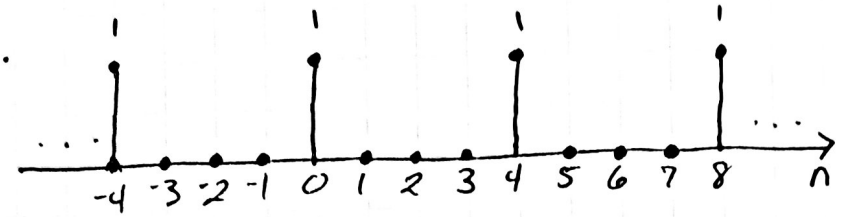


$\frac{1}{2}x[n]+\frac{1}{2}(-1)^n x[n]$

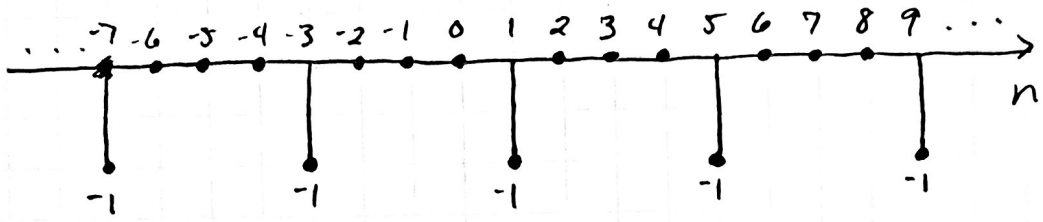
1.6

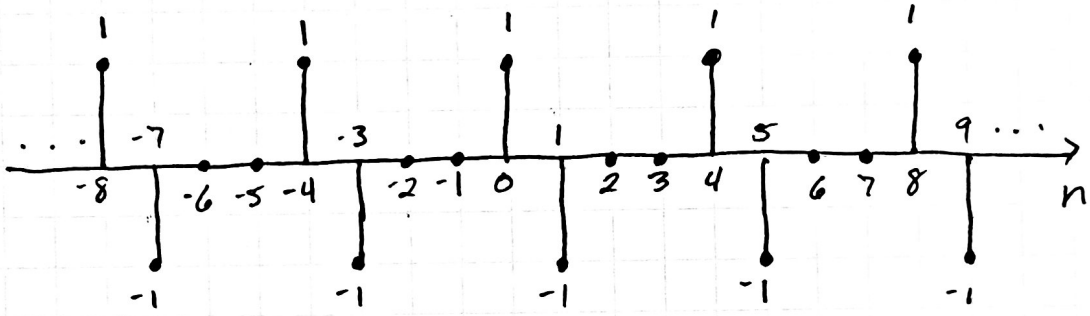
$$\sum_{K=-\infty}^{\infty} \delta[n-4k]$$

c.



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





$$x_3[n] = \sum_{K=-\infty}^{\infty} \{\delta[n-4k] \cdot \delta[n-1-4k]\}$$