

به نام خدا

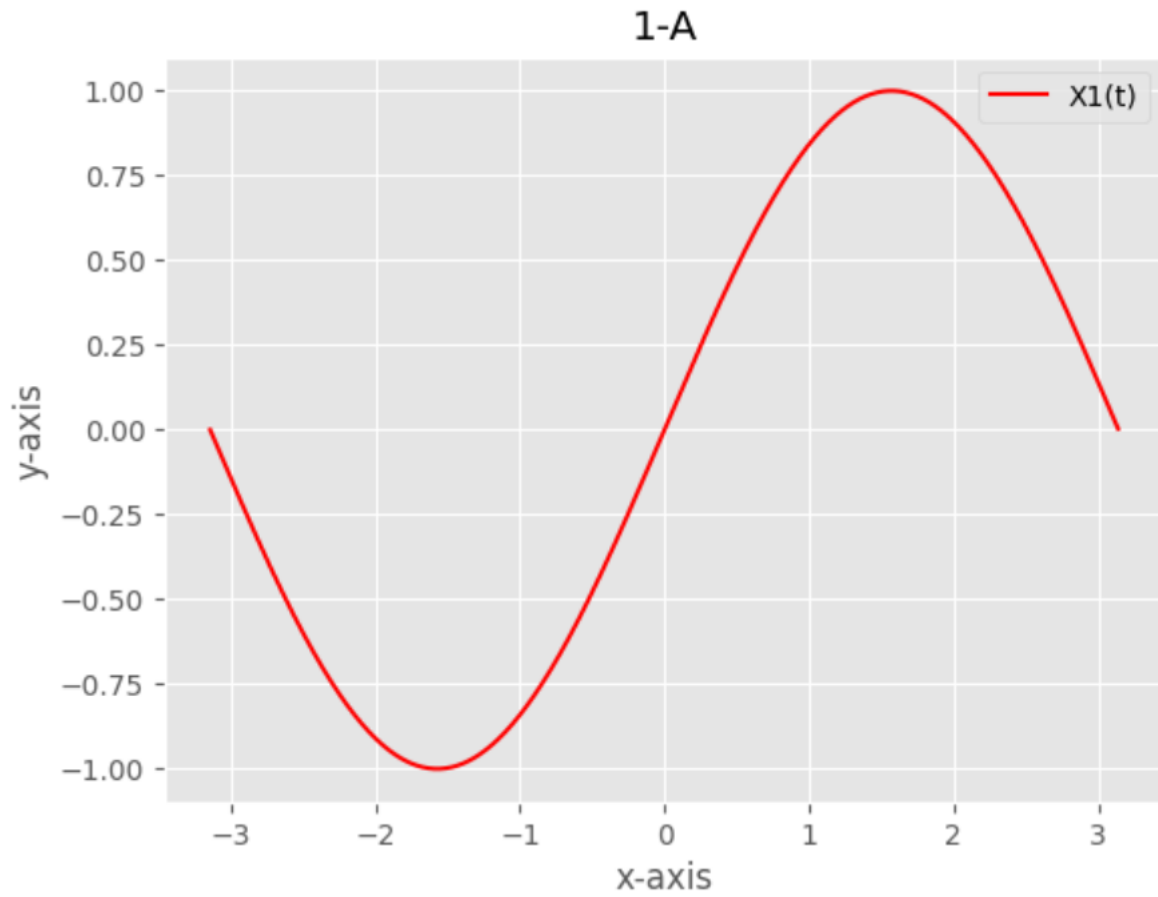
تمرین عملی شماره ۱

روژینا کاشفی-۹۸۳۱۱۱۸

سوال (۱)

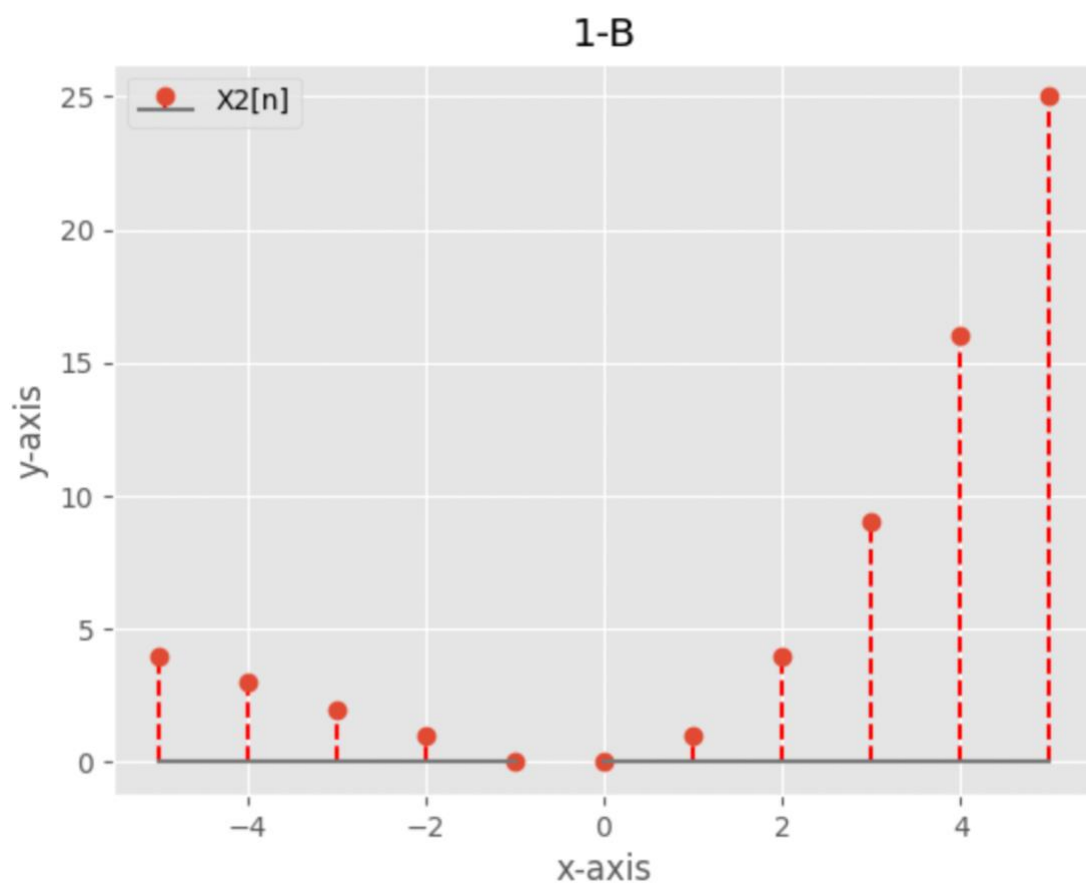
a. $x_1(t) = \sin(t)$

$interval = [-\pi, \pi]$

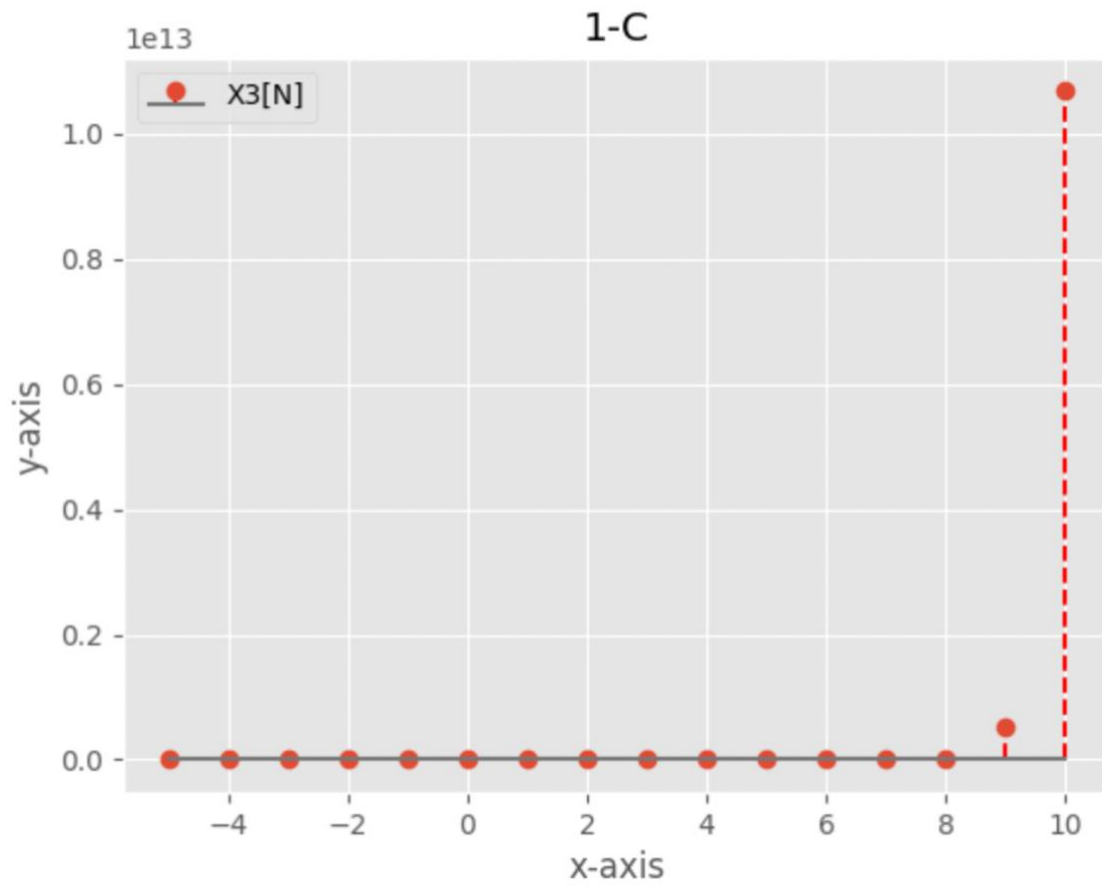


b. $x_2[n] = \begin{cases} -n - 1, & n < 0 \\ n^2, & n \geq 0 \end{cases}$

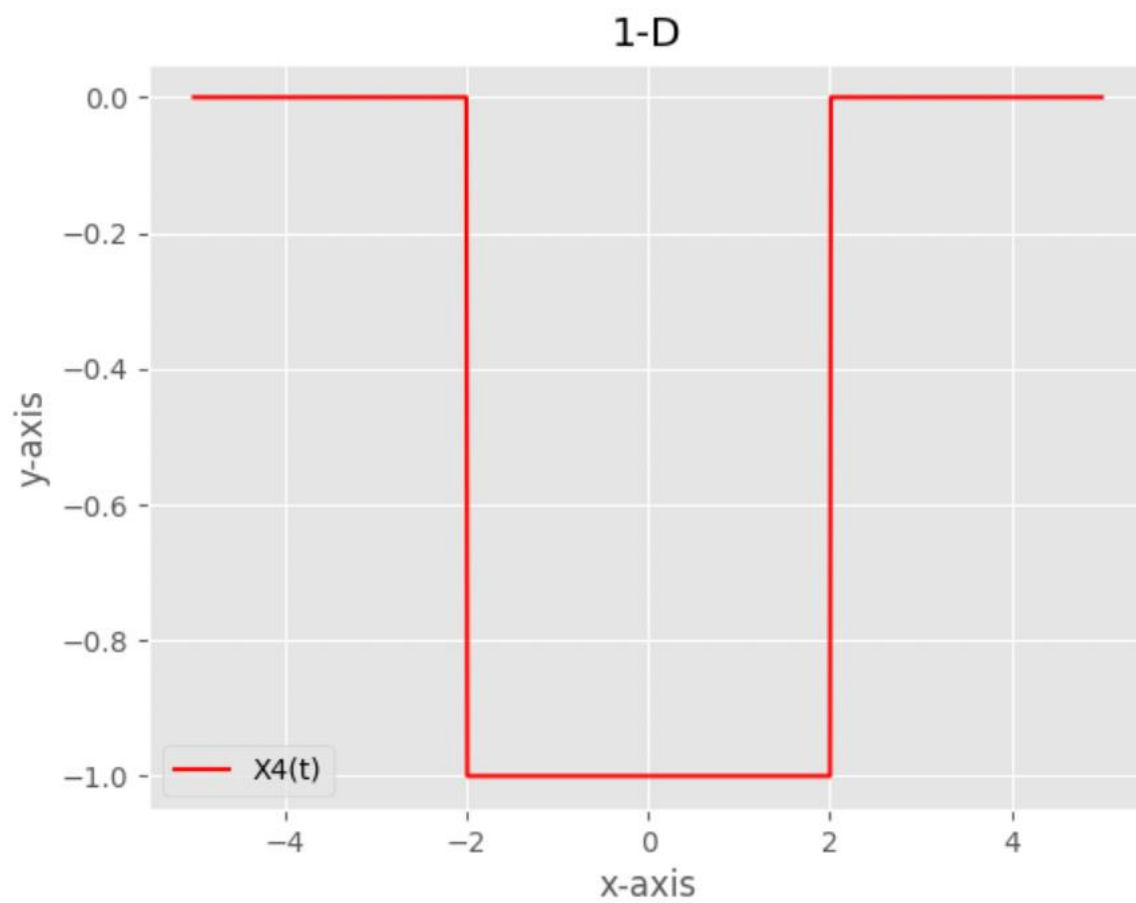
$interval = [-5, 5]$



c. $x_3[n] = e^{3n}u[n+2] + 2\delta[n]$ $interval = [-5, 10]$

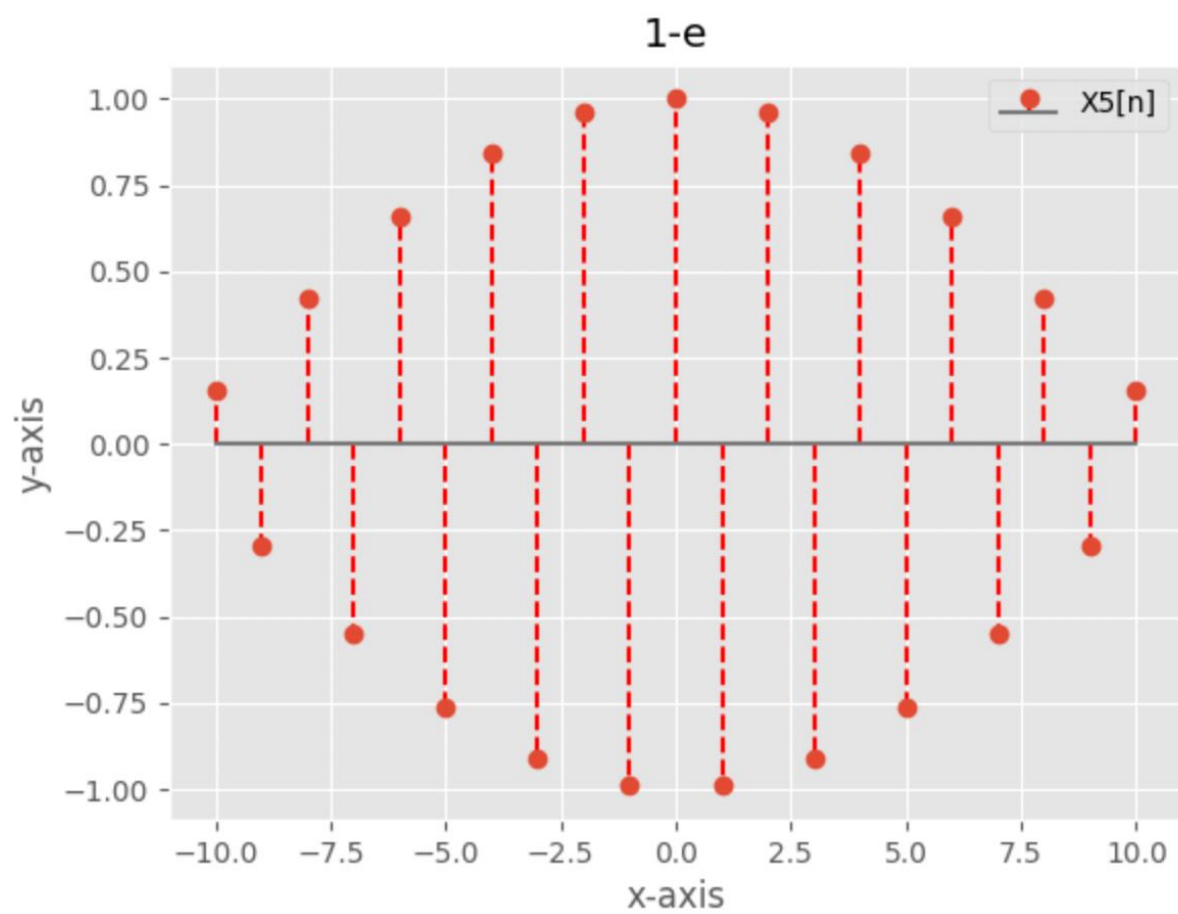


d. $x_4(t) = u(t - 2) - u(t + 2)$ *interval* = $[-5, 5]$



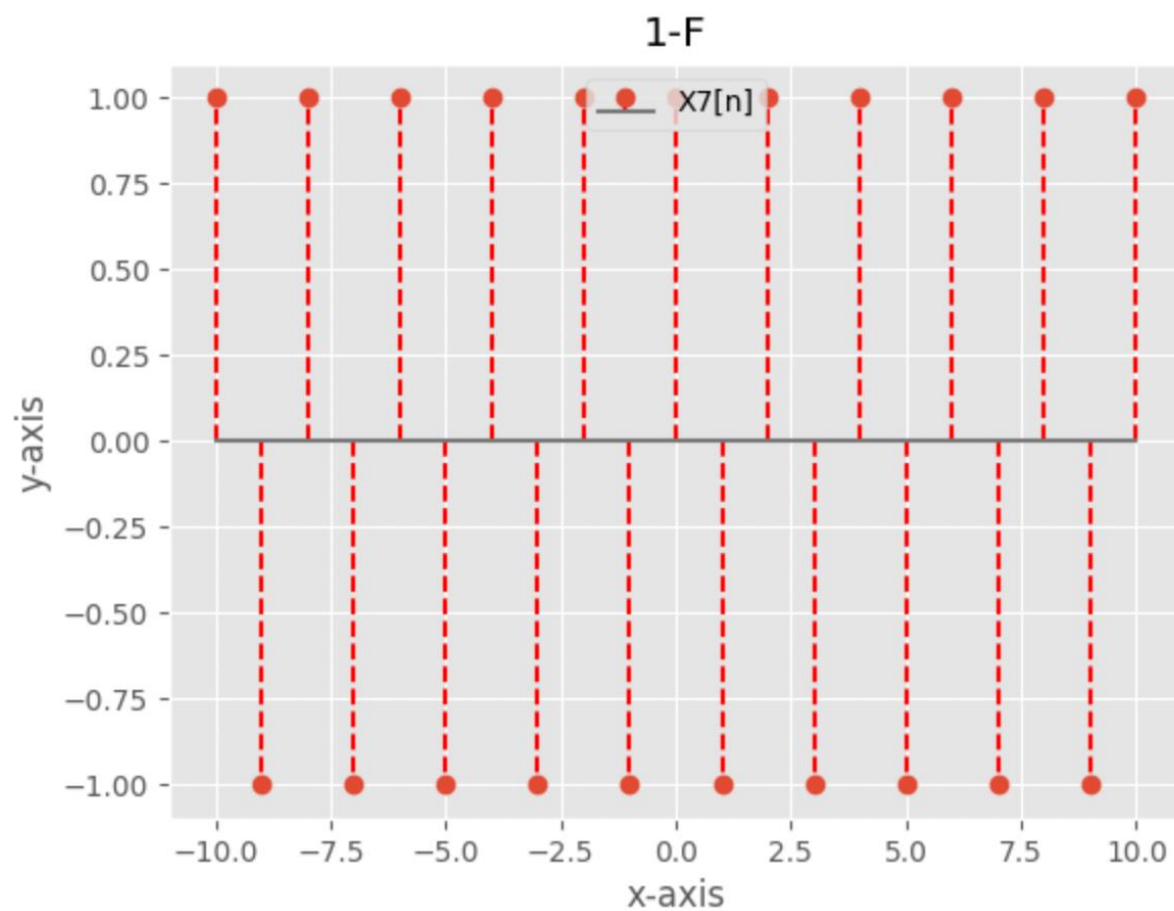
e. $x_5[n] = \cos(3n)$

$interval = [-10, 10]$



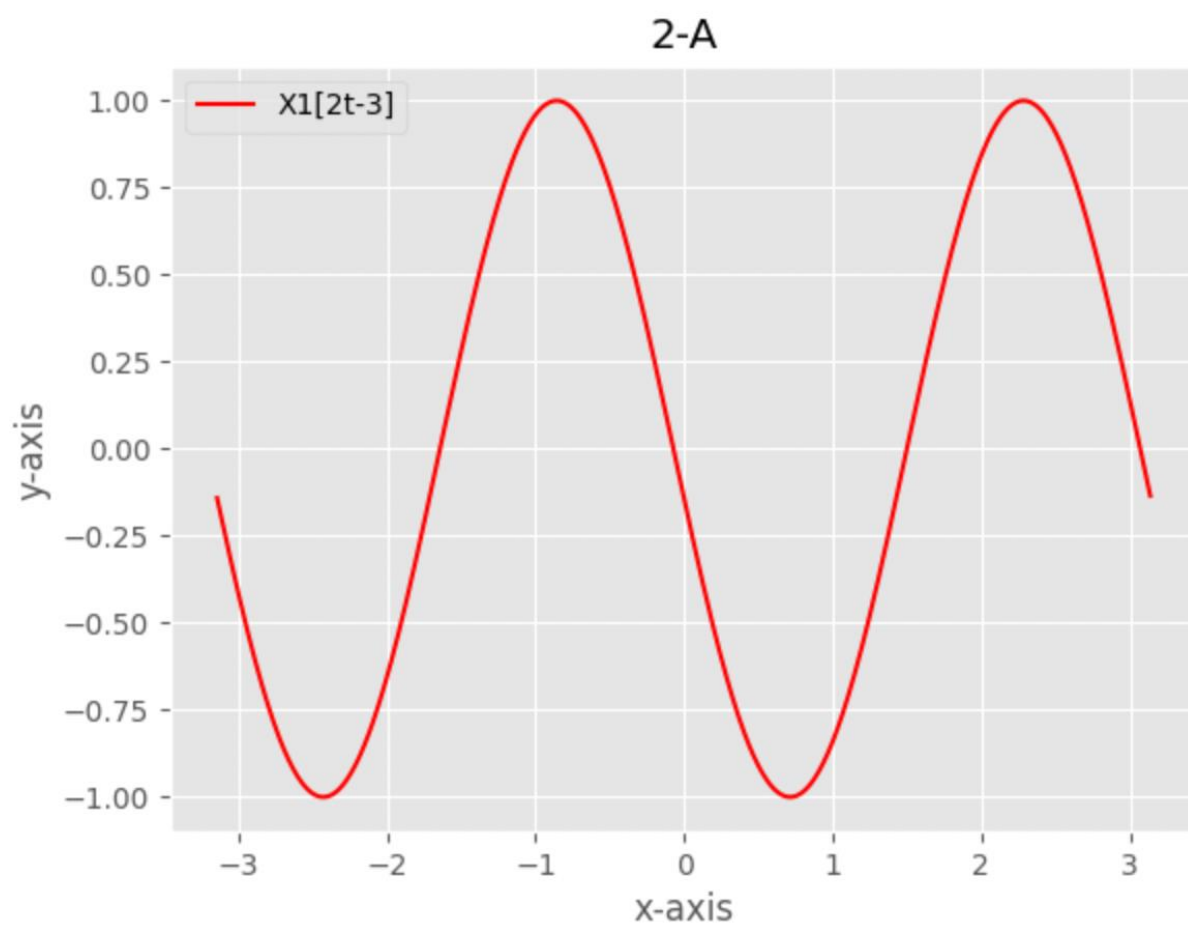
f. $x_7[n] = \cos(3\pi n)$

$interval = [-10, 10]$

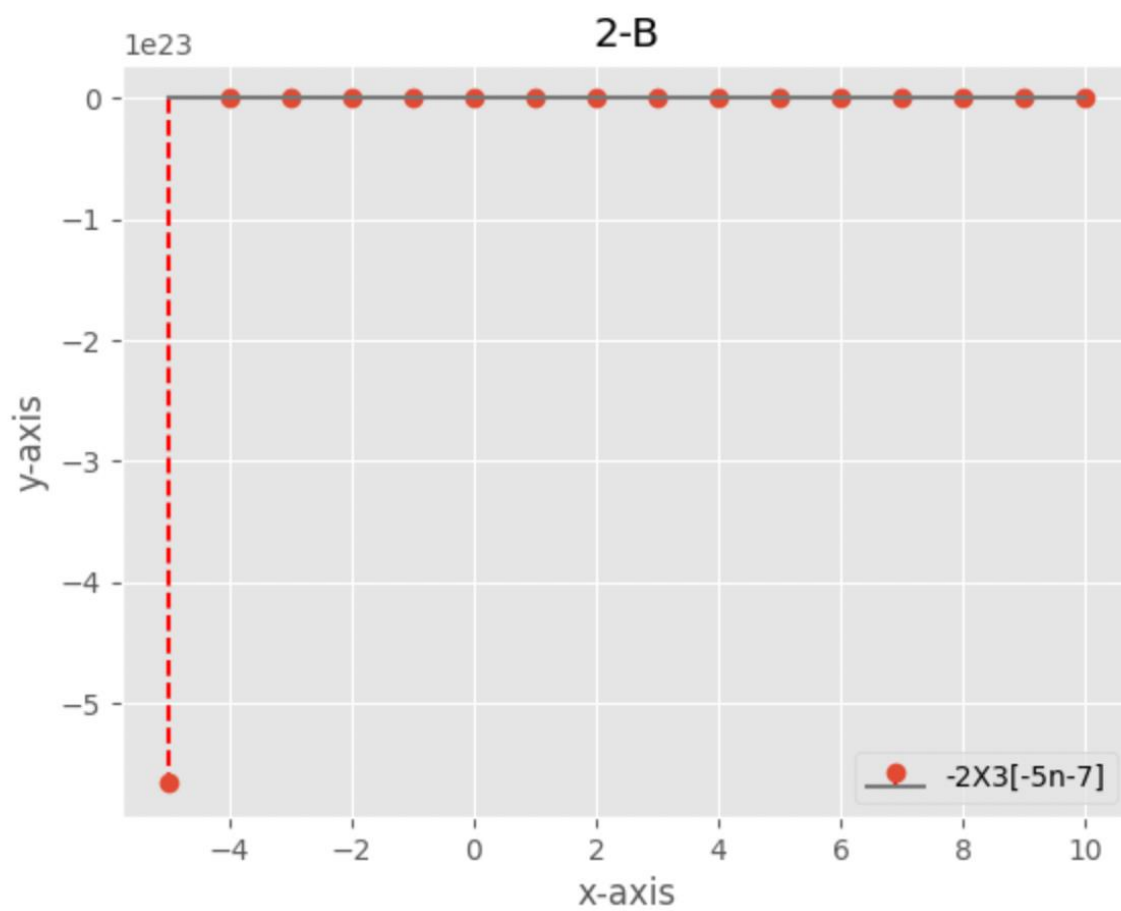


سوال ۲)

a. $x_8(t) = x_1(2t - 3)$



b. $x_9[n] = -2x_3[-5n - 7]$



c. $x_{10}(t) = x_1(-t + 3)$

