

EE424 Homework1 (MATLAB Exercise)

(1) Plot the sequence

n:	-3	-2	-1	0	1	2	3
X[n]	1	2	3	4	3	2	1

(2) Generate and plot $\delta[n]$ for $-6 \leq n \leq 6$

(3) Generate and plot $u[n]$ for $-6 \leq n \leq 6$

(4) Generate and plot the gate pulse $G[n] = \begin{cases} 1 & -3 \leq n \leq 3 \\ 0 & \text{otherwise} \end{cases}$ for $-6 \leq n \leq 6$

(5) Generate and plot $\delta[n-2]$ for $-6 \leq n \leq 6$

(6) Generate and plot $u[n-2]$ for $-6 \leq n \leq 6$

(7) Generate and plot the gate pulse $G[n-2]$ for $-9 \leq n \leq 9$