

# Quiz-1

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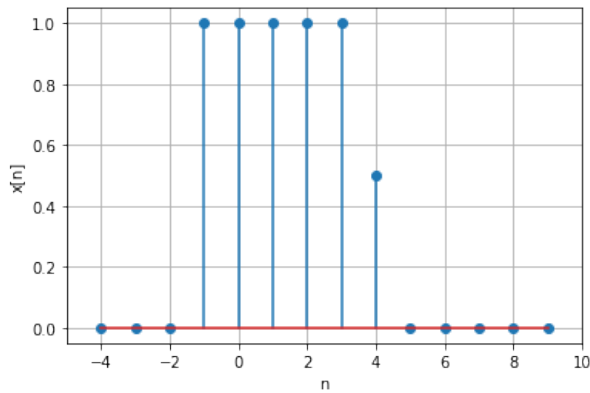
Download latex code from

[https://github.com/ArunSiddardha/EE900/tree/main/Gate\\_assignment/Gate\\_Assignment.tex](https://github.com/ArunSiddardha/EE900/tree/main/Gate_assignment/Gate_Assignment.tex)

$$x[n-2] = \begin{cases} 0, & n < -3 \\ 1, & -3 \leq n < 2 \\ \frac{1}{2}, & n = 2 \\ 0, & n > 2 \end{cases} \quad (0.0.1)$$

QUIZ-1 2.29(A),2.29(B)

A discrete-time signal  $x[n]$  is shown in the below figure Sketch and label carefully each of the follow-



2) Plot for time signal  $x[4-n]$ .

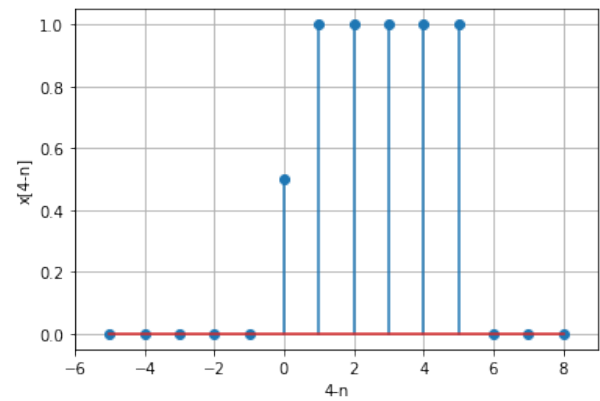


Fig. 2: plot for  $x[4-n]$

ing signals

- 1)  $x[n-2]$
- 2)  $x[4-n]$

$$x[4-n] = \begin{cases} 0, & n < 0 \\ \frac{1}{2}, & n = 0 \\ 1, & 0 < n < 5 \\ 0, & n > 5 \end{cases} \quad (0.0.2)$$

SOLUTION

1) Plot for time signal  $x[n-2]$ .

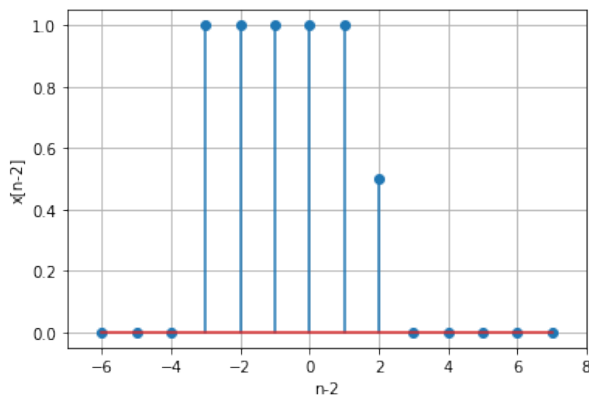


Fig. 1: plot for  $x[n-2]$