## Problem 8.6

Given, sequence $x[n]=\delta[n-1]+2 \delta[n-2]+3 \delta[n-3]+4 \delta[n-4]$
(a) Plot of $x[n]$ from $0 \leq n \leq 8$ :

(b) Plot of $y[n]$ whose 8 -point DFT is $Y[k]=e^{-j 1.5 \pi k} X[k]$. $Y[k]$ can also be expressed as $Y[k]=e^{-j\left(\frac{2 \pi k}{8}\right) 6} X[k]$. Then, using the delay property, $y[n]=x[n-6]$
Plot of $y[n]$ :


