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 $0 \le n \le 8$:



(b) Plot of y[n] whose 8-point DFT is $Y[k] = e^{-j1.5\pi k}X[k]$. Y[k] can also be expressed as $Y[k] = e^{-j(\frac{2\pi k}{8})6}X[k]$. Then, using the delay property, y[n] = x[n-6]Plot of y[n]:

