LAB TASK # 04

Prove the convolution property of DTFT for the following two different sets of sequences

1. Length of x1 = 8; x1[n] = $(1/2)^n$ for $0 \leq n \leq 7$

   Length of x2 = 4; x2[n]= [0.25 0.25 0.25 0.25]

2. Length of x1 = 16; x1[n] = $(3/4)^n$ for $0 \leq n \leq 15$

   Length of x2 = 8; x2[n]= [1 3 5 7 9 11 13 15]