



ISRA UNIVERSITY

Islamabad Campus

Department of Electrical Engineering

Program: B.E. (Electrical)

Semester - Fall 2016

EL313- Signal & Systems

Assignment – 2

Marks: 20

Due Date: 07/11/2016

Handout Date: 28/10/2016

Question # 1:

For the discrete time system given below:

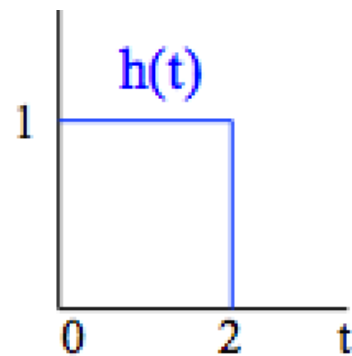
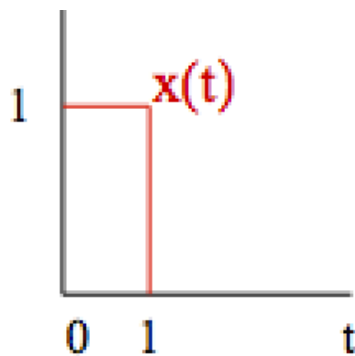
$$y(n] = x[n] + nx[n - 2]$$

Check the following:

1. System with/ Without Memory
2. Invertible/ Non-invertible
3. Causality
4. Time Invariant or not
5. Linearity

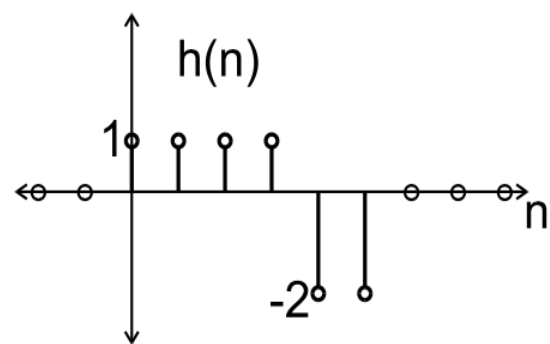
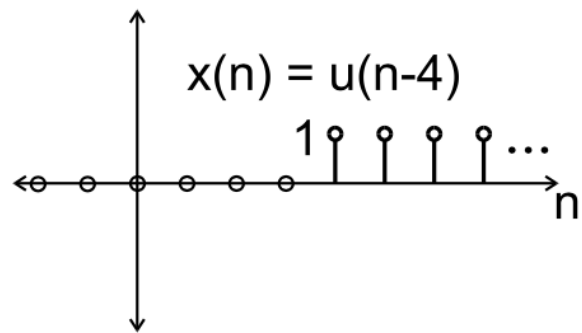
Question # 2:

Convolve the two Continuous-Time Signals given below:



Question # 3:

Convolve the two Discrete-Time Signals given below:



Good Luck