Signals And Systems

Pre Lab 2 Report

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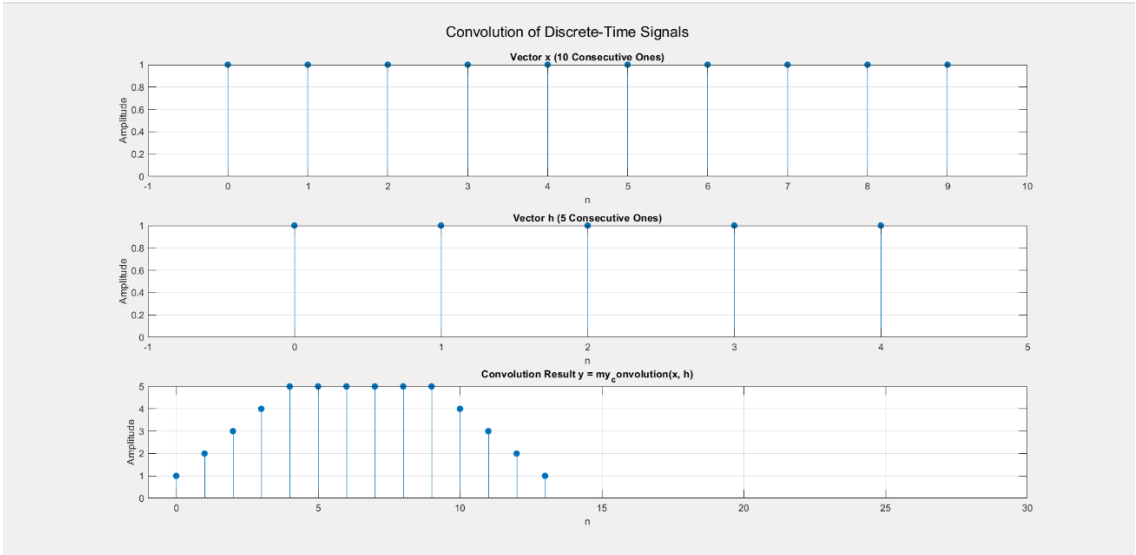
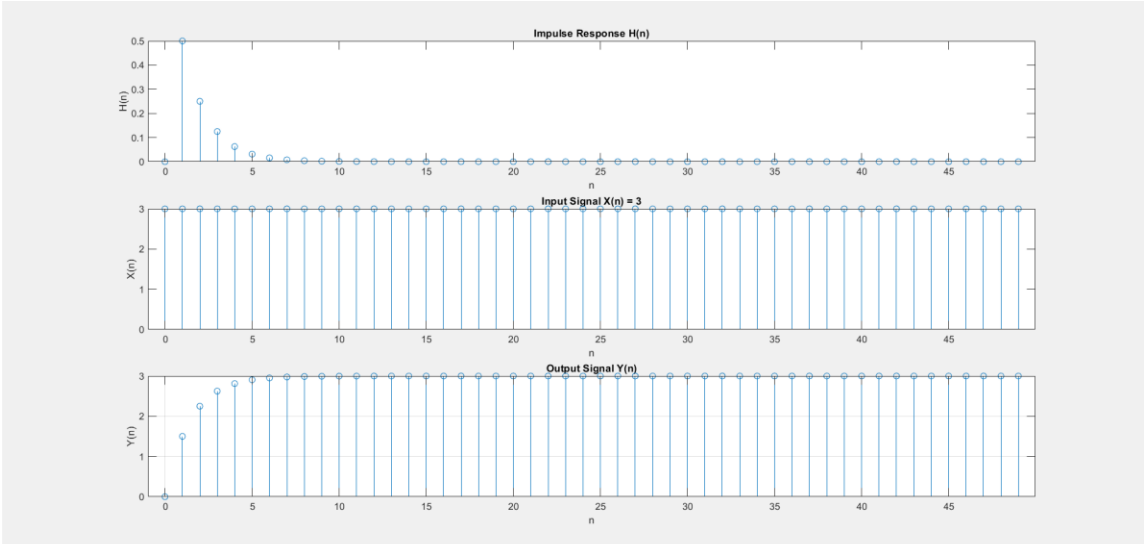
1) Write a MATLAB program that will generate a vector with 10 consequtive ones and another
vector with five consequtive ones, such as
x = [1,1,1,1,1,1,1,1,1,1]
h = [1,1,1,1,1]
Calculate convolution of those discrete-time signals and plot the the resulsts by using subplot
for 0<n<30



2) Generate a signal as an impulse response of a discrete-time system as
H = (1/2)^n, for 0<n<20
0, otherwise
Calculate output of the discrete-time system when the input in part (1) is given. Plot the
results by using subplot for 0<n<50



3) Generate a signal as an impulse response of a discrete-time system as
H = (1/3)^n, for 0<n<20
X = cos(2*pi/5*n), for 0<n<20
Calculate output of the discrete-time system. Plot the results by using subplot for 0<n<20