>> nL = 10;

>> nR = 10;

>> n = -nL:nR;

>> x = [zeros(-nR,-2),-2,4,-2,2,1,zeros(4,10)];

Error using horzcat

Dimensions of arrays being concatenated are not consistent.

>> xn = [zeros(-nL,-2),-2,4,-2,2,1,zeros(4,nR)];

Error using horzcat

Dimensions of arrays being concatenated are not consistent.

>> xn = [zeros(-nL,-2) -2,4,-2,2,1 zeros(4,nR)];

Error using horzcat

Dimensions of arrays being concatenated are not consistent.

>> xn = [0,0,0,0,0,0,0,0,0,-2,4,-2,2,1,0,0,0,0,0,0,0];

>> stem(n,xn);

>> a = [0,0,0,0,0,0,-3,6,-6,12,-6,0,0,0,0,0,0,0,0,0];

>> stem(n,a);

Error using stem (line 43)

X must be same length as Y.

>> an = [0,0,0,0,0,0,-3,6,-6,12,-6,0,0,0,0,0,0,0,0,0,0];

>> stem(n,a);

Error using stem (line 43)

X must be same length as Y.

>> a= [zeros(-nL,-6),-3,6,-6,12,-6,zeros(1,nR)];

>> stem(n,a);

Error using stem (line 43)

X must be same length as Y.

>> plot(n,a)

Error using plot

Vectors must be the same length.

>> plot(n,a);

Error using plot

Vectors must be the same length.

>> b = [-1,-1,-1,-1,-1,-1,-1,-1,-1,-1,3,1,-1,-1,-1,-1,-1,-1,-1,-1,-1];

>> stem(n,b);

>> c = [2,2,2,2,2,2,2,2,2,0,6,0,4,1,2,2,2,2,2,2,2];

>> stem(n,c);

>>