

Matlab Practice 08

Fourier Analysis for Discrete Signals

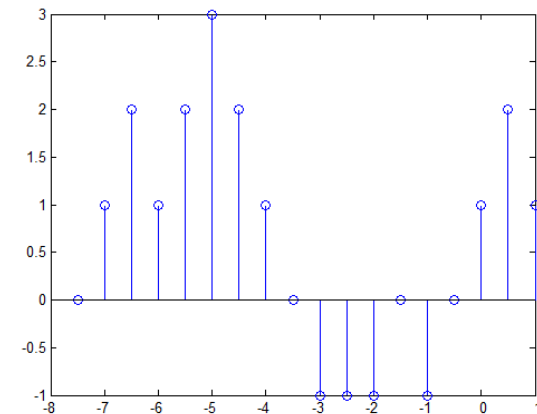
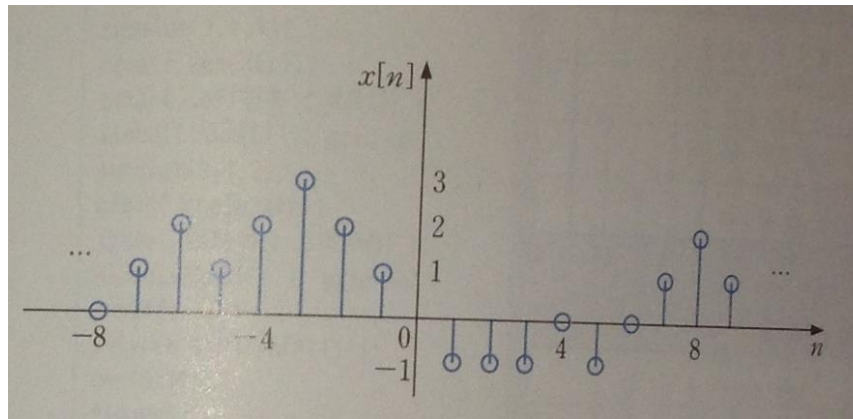
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Fourier Analysis for Discrete Signals

● Matlab Practice 8-1

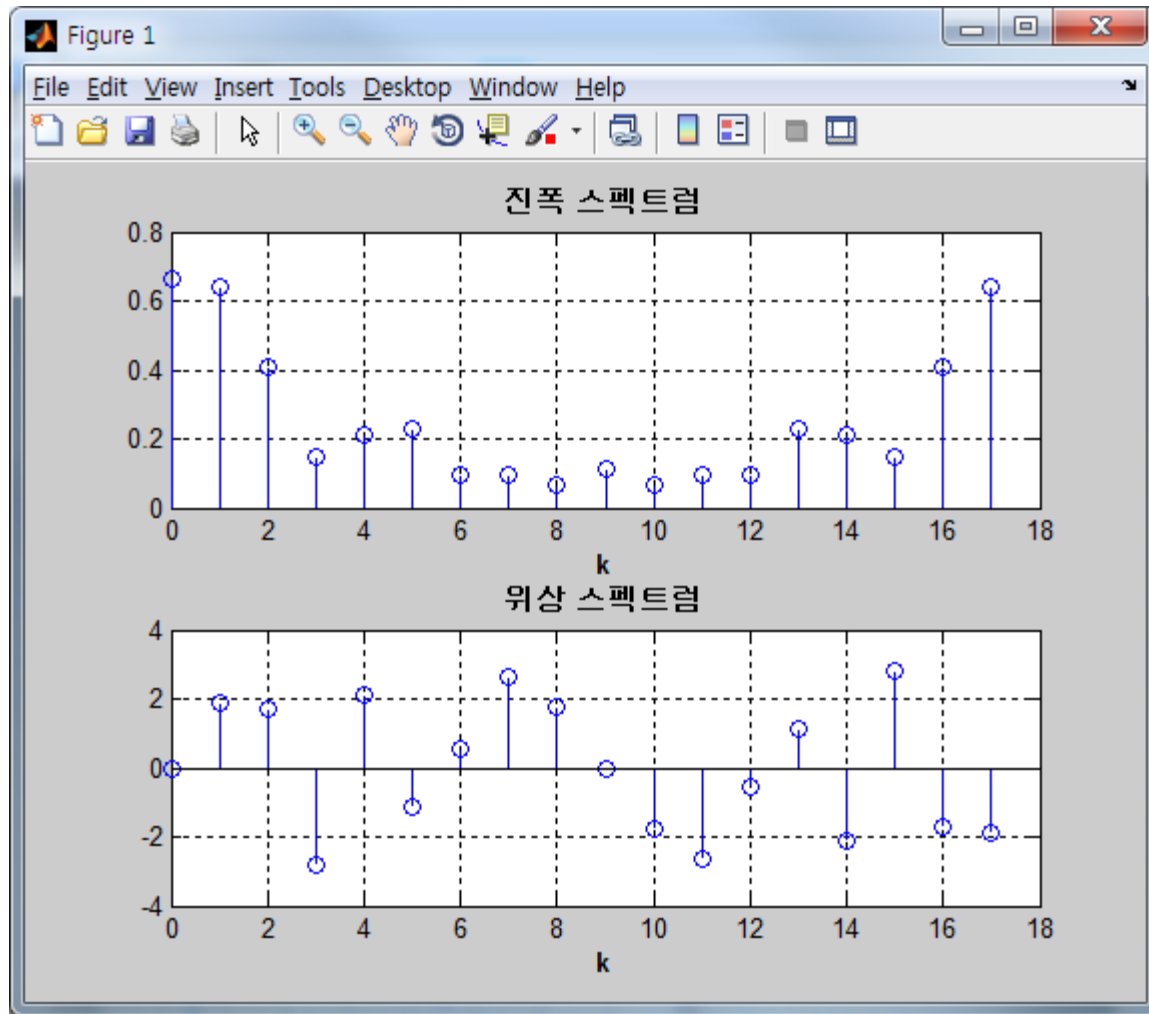
For a given discrete signal $x[n]$ with period $N=18$,



- Calculate the coefficients of DTFS and then plot them.
Hint: Amplitude and Phase Spectrum
- Plot DTFT and its Inverse DTFT when a non-periodic signal $y[n]$ is produced by a single period of the signal $x[n]$.

Display the results about poles and zeros

- Coefficients are symmetric against $\Omega=\pi$ ($k=N/2=9$, in Matlab 10)



(b) Display the results of Frequency response

