**Lab #6**

**Objectives**

* Signal and System in Frequency Domain
* Use Scilab to draw spectrums

**Report**

1. Your report must include your answers in hand-written or computer-aid tools (word, latex).
2. Do not share your report with your friends.
3. Finally, you upload your report to BKeL on time.

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**EXERCISES**

**Exercise 1**. Find Fourier transform of the following signals

**Exercise 2.** Find Fourier transform of the following signals



**Exercise 3.** Use Scilab to draw the amplitude spectrum and phase spectrum of the following signals

**Exercise 4.** Given LTI system by the following input-ouput description equation

Determine the Fourier transform of the impulse response h(n) and then draw the amplitude spectrum and phase spectrum.

**Exercise 5.** Given LTI system . Determine output y(n) when input xby usingFourier Transform. Then, use SciLab to draw amplitude and phase spectrums.

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