정보통신 수학 및 실습
Lab assignment

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Chapter 11 Lab Assignment

1. Find the Fourier transform of the following function using the numerical method.

   t

   a) Plot the magnitude of the Fourier Transform of the signal when A=10, a=10.

   b) Plot the magnitude of the Fourier Transform of the signal when when A=10, a=50 on the top of the figure a.

   c) Describe what you find through problem a and b.

2. Solve the following questions about the magnitude of the continuous time Fourier transform of x(t) = exp(-A* abs(t)). Use the numerical method. A is 5.

   a) Plot x(t) when -5 <t <5.

   b) Plot the magnitude of the continuous time Fourier transform of x(t) = exp(-A* abs(t)).

3. Plot the magnitude of the continuous time Fourier transform of x(t) = 1 when -4 <t <4, and x(t)=0 otherwise.