

# ECE 425 – Image Science and Engineering Spring Semester 2000

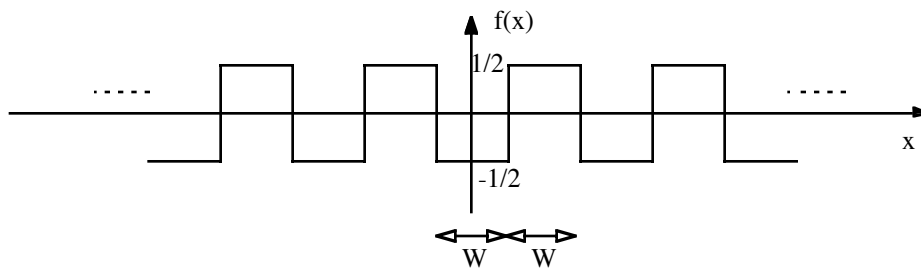
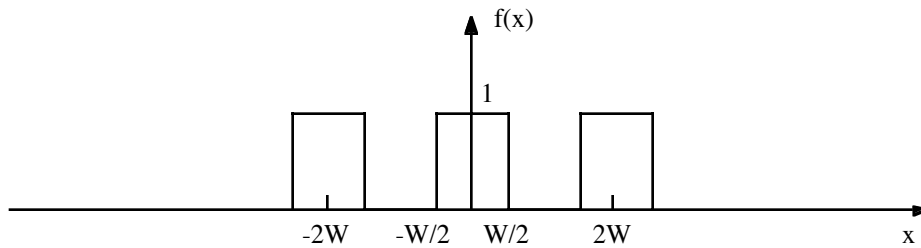
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## HOMEWORK #1

January 25, 2000

**DUE: in-class February 1, 2000**

1. Write a mathematical expression, using the 1-D functions defined in the class notes, for each of the following functions and their Fourier transforms. Graph the amplitude part of the Fourier transform.



2. Graph the following functions:

a.  $\text{rect}(x/b)\text{tri}(x/b)$

b.  $\cos(2\pi x/b) * \delta\delta(2x/b)$