Exam 2

- Next Monday
- Four problems, 100 minutes
- Will cover all of Chapter 3
- Exam will include questions on
  - Relationship of FT to LTI systems
  - Symmetry relationships of FT/FS and signals
  - Many conceptual questions
- Similar to exams in previous years
- More on Wednesday

Key Concepts from Last Time

- Time shift: useful for shift-invariant recognition
- Frequency shift: useful for signal multiplexing and communications
- Transform symmetry (complex-conjugate symmetry)
- Relationship to signal symmetry (even/odd)
- Amplitude-phase representations of the FT/FS. More intuitive, difficult to analyze mathematically.

Miscellaneous

- Homework 5 solutions posted on the class web site
Lecture Overview

Last Time
- Continue Fourier properties
  - Time & frequency shifts
  - Transform symmetry
  - Relationship to signal symmetry
  - Amplitude-phase representation
  - Application examples

This Time
- Continue Fourier properties
  - How to plot & interpret the FT/FS
  - Convolution in time (regular & circular)
  - Multiplication in time
  - Windowing
  - Time & frequency scaling?