**Physics 360/Math 360   MWF 11:00 - 11:50 PM, Room: Dennis 231**

---

**Instructor:** Michael Lerner, Dennis 221, Phone: 727-LERNERM

**Assignment 6, Due Friday March 7th**

# 1   Fourier Transforms

Boas §7.12 #1, 4, 10
Related to #4 and 10, you may do #13 and 19 for extra credit.

# 2   Laplace Transforms

Boas §8.8 #2, 8
Boas §8.9 You may do #4 and 19 for extra credit, assuming they're familiar from last semester.

# 3   Convolutions

Boas §8.10 #3
Additional (required) problem: Pick two functions of your own choice, calculate the convolution, graph both functions and the convolution, explain whether it makes sense graphically.

# 4   Delta functions

Boas §8.11 #20 (only need to verify 11.19 parts d and e), 21

# 5   Green's Functions

Read Boas §8.12 example #2 (p. 463), do problem #11