Assignment # 8

Due Wednesday, 30 November, 2011 at start of class.

Read Lessons 16, 17, 18, 19, and 20. Then go back and read Lessons 10, 11, and 12.

Lesson 16, # 1. (*Hint*: Do the same kind of calculation as the one by which (16.4) was derived from (16.3).)

Lesson 17, # 1.

Lesson 17, # 4. (*Hint*: Start the graphing part of the question by making *sure* you know what the graph of $y = xe^{-x^2}$ looks like!)

Lesson 20, # 1.

Lesson 20, # 3.

Lesson 20, # 5.

Lesson 20, # 6.

Lesson 11, # 1.

Lesson 11, # 3. (*Hint*: The book means *discrete* frequency spectrum. Your graphs should be on c_n-versus-n axes, similar to the right-hand part of Figure 11.2.)