Math 23 - Fall 2013
Homework 8
Due Wednesday, 13 Nov. 2013.

Note:

• Except for problems that are stated explicitly, all problems are from Boyce and DiPrima 9th Edition.

• Please show all of your work (writing a list of answers is not sufficient).

• Please indicate the people you worked with.

• Please staple your page together.

• 10 problems will be graded (2 points each).

• Hand in a separate write-up for each part.

• **Part A**

    1. Section 10.1 #14, #15, #17

    2. Find eigenvalues and eigenfunctions of

$$y'' + \lambda y = 0, \qquad y(-\pi) = y(\pi), \ y'(-\pi) = y'(\pi) \tag{1}$$

• **Part B**

    1. Section 10.2: #1, #4, #6, #13, #16, #18

• **Part C**

    1. Section 10.3: #3 #4, #5

    2. Section 10.4: #14