

Math 385, Section M1

Homework 7

Due March 15, 2007, before class

Problem I: Textbook page 157, Exercises: 54, 55.

Problem II: Textbook page 180, Exercises: 21, 22, 23.

Problem III: Textbook page 207, Exercises: 3, 13, 26, 34.

Problem IV: Find all solutions of:

$$y'' - 4y' + 4y = 2e^{2x}.$$

Compare the two methods of finding the particular solution.

Problem V: Find all solutions of:

$$4x^2y'' - 4xy' + 3y = 8x^{4/3}, \quad x > 0.$$