

324 Introduction to PDEs  
Instructor: Petronela Radu  
November 1, 2006

## Homework 8

Due November 10

Before writing your solutions commit yourself to being correct and clear throughout your arguments. In order to receive any credit the grader must be able to follow your arguments.

**This is an individual assignment.** While you may discuss the problems with your colleagues, you will write up your own individual solutions.

1. (20 points) Problem 2 page 128.
2. (25 points) Problem 3 page 128.
3. (20 points) Problem 2 page 135.
4. (25 points) Problem 3 page 135.
5. (10 points) What are some advantages and disadvantages that you see about the method of separation of variables? (half a page).