

## MATH 205: Homework 8

Due Wed May 30

Most of these problems are from “Multivariable Mathematics” by T. Shifrin. I recommend at least thinking about all the exercises, even if they are not assigned, as you read through the textbook. I also recommend trying to prove all the Theorems which are left unproven in the book.

**Problem 1.** From Exercises 8.2 (Shifrin): 9

**Problem 2.** From Exercises 8.5 (Shifrin): 14, 17, 20, 21

**Problem 3.** From Exercises 8.6 (Shifrin): 1, 6, 11