

## AMS 527, Spring 2009, Homework 5

100 points + 20 extra points. Due: Monday 03/23

Electronic submission of homework assignments is strongly encouraged for the computer problems. For the written part, you are encouraged (but not required) to typeset using  $\text{\LaTeX}$  or  $\text{\LyX}$  (an easy-to-use front-end of  $\text{\LaTeX}$ ). For electronic submission, homework is due at 11:59pm on the due date. For paper submission, homework is due in class on the due date.

1. (20 points) Exercise 8.4 on page 376 of Heath book.
2. (10 points) Exercise 8.6 on page 376 of Heath book.
3. (15 points) Exercise 8.12 on page 377 of Heath book.
4. (15 points) Exercise 8.13 on page 377 of Heath book.
5. (20 points) Computer problem 8.1(a) on page 378 of Heath book.
6. (20 points) Computer problem 8.14(a) on page 380 of Heath book.
7. (Extra 20 points) Exercise 8.9 on page 376 of Heath book.