

# AMS 527, Spring 2009, Homework 6

100 points. Due: Monday 04/20

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. (30 points) Exercise 9.9 on page 417 of Heath book.
2. (10 points) Exercise 9.12 on page 418 of Heath book.
3. (20 points) Exercise 10.3 on page 444 of Heath book.
4. (50 points) Computer problem 9.4 on page 419 of Heath book. Note that you must implement the algorithms yourself, instead of using library routines.