Math 663 Problems, January 20, 2010

Due 4 February, 2011

Please solve 5 homework problems taken from the following list. Those marked *un-dergraduate only* are meant for undergraduate students, but not for graduate students. Undergraduate students can choose from any of the problems in the list. Do not hand in more than 5 solved problems.

If you are attending at the University of Alberta, please hand in paper copies of your homework to Jiafen Gong. If you are a graduate student attending the course remotely, please submit scans of your handwritten solutions or of the typeset solutions under the *Assignments* tab on eClass. If you are an undergraduate student attending remotely, please email scans of your handwritten solutions or of the typeset solutions to Jiafen Gong.

The solution of the homework problems, and the writing up of solution to the problems is to be done independently by each student.

- 1. Kot problem 1.1 (undergraduate only)
- 2. Kot problem 1.2 (undergraduate only)
- 3. Kot problem 1.3 (undergraduate only)
- 4. Kot problem 2.1
- 5. Kot problem 2.2 (undergraduate only)
- 6. Kot problem 2.4
- 7. Kot problem 2.5
- 8. Kot problem 2.6
- 9. Kot problem 3.1 (Please use the alternate method described on page 46 of the lecture notes.)
- 10. Kot problem 3.2
- 11. Kot problem 3.3
- 12. Kot problem 3.4