

MATH 217:101: Multivariable and Vector Calculus (Term 1, 2010/2011)

Homework assignment # 1

Due date: **Friday Sept 17, 2010 (hand-in in class BEFORE 9:15am)**

Textbook: James Stewart. Multivariable Calculus, 6 Ed.

Homework assignment:

- Homework will be collected at the beginning of lecture **each Friday** starting September 17.
- **Late homework (past 9:15AM on the due date) will not be accepted in any case.** Also, homework will be collected **ONLY in the class**. If you are unable to attend lecture on a certain Friday, submit the homework in an earlier lecture. A missed homework will result in 0 mark. Two lowest homework grades will be dropped in computing the grade.
- Your homework should be written in a **clear** manner so that the grader can understand **easily** what you are doing. Also it should be handwritten **neatly**. **Unreadable or very hard to read homework may get zero or very low mark.**
- You are encouraged to discuss the homework with other students, but you must produce and write the solutions on your own.
- It is probable that only a subset of those problems turned in would be graded, and you will not be informed (in advance) which ones these are. *For example, if your homework does not contain any of the problems to be graded (which will be decided after the deadline), you will get zero mark.* So, it would be better for you to do all the problems to be handed in.

Grading policy: For computational problems, to earn lots of credit, you have to get the right answer with proper set-up of the calculation. In many cases (especially for the easier problems), about half the points will be given for setting up the calculation *properly* and about half for computing the numerical answer *correctly*. For more difficult problems, more percentage will be given for properly setting-up the calculation. **You may lose most (sometimes, all) of points for setting up the calculation incorrectly, even if the subsequent computations are correct.** Also, you may lose half the points for not finding the correct final answer, even if the initial set-up is correct.

Problems to be handed-in:

(Please note that we are using Stewart, Multivariable Calculus, 6 edition. NOT Early transcendental. Please make sure you are doing the right problems.)

- 13.1. #38
- 13.2. #36
- 13.3. #50
- 13.3 #60
- 13.4 #36
- 13.4 #44
- p830, Discovery project #2