

# Calculus 1B (002 LEC) Fall 2014      Homework 1

To be submitted on paper in discussion sessions on September 11

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## Important Information:

- The problems in parentheses are for extra practice and **optional**. You only need to turn in the underlined problems. Remember though, that you're not just doing homework for credit, you're really doing it to master the material. If you've done all the underlined problems and still don't feel totally confident then you should do some more until you do. Everyone learns a little differently. Find the right balance for you.
  - Page and problem numbers refer to the 7th edition of the UC Berkeley edition of the textbook. On occasion these numbers may differ from the 6th edition. If you only have the 6th edition, ask someone with a 7th edition to check the appropriate numbering.
  - In general, homework assignments for this class can be lengthy, but a lot of practice solving problems is essential for learning the material. Be organised, and don't leave things for a marathon session on Wednesday night. Instead, get a good start on the homework over the weekend (or even earlier!) so you can ask questions in discussion on Tuesday (or even Thursday). As a rough guideline expect to spend anywhere between 3 and 8 hours a week on a problem set.
  - Discussing problems with your classmates is permitted and is a good way to make it more fun and gain a deeper understanding. However you should **always** begin each problem alone. I can't emphasise this point enough. If you've attacked a question from multiple directions over at least an hour and are completely stuck, that's the time to discuss it with your peers, not before. If solving a problem is like building a house, the initial time working alone is like laying the foundations. If you don't do it, then even if you end up with a solution after talking to other people, everything is at risk of collapse because it doesn't have a solid base. I've seen students work in big groups the moment they start a homework assignment and it tends to dramatically dilute individual understanding. Remember, you don't sit exams as a group, you sit them on your own. That said by all means talk to each other, just do it after you've spent some serious time on your own. And remember when you hand in proper homework, you must **write all the solutions yourself**. Copying of solutions is cheating and will be dealt with severely.
  - Good Luck!
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### Wednesday 9/3

- **Read:** My notes posted on the website along with § 7.1.
- **Work:** (3), (4), 5, 7, (8), (9) 11, 15, 17, (22), (26), (37), (39), 40, 41, 48, 50, 51, (53), (54).

### Friday 9/5

- **Read:** My notes posted on the website along with § 7.2.
- **Work:** 2, (3), (4), 6, 7, 10, (11), (12), 19, 24, (25), (26), 31, 33, (37), (38), 43, 48, (65), 69