

**Math 324, Fall 2011**  
**Homework #7**

*This week your homework has two parts.*

1. (7 points) Do the **WebAssign problem set** labeled Homework #7. Due by Wednesday, 11/16 at 11pm.
  
2. (8 points) Make a **study outline** of all the material covered since the last midterm. Due in class on Wednesday, 11/16.

A study outline is a short (1-3 pages) summary of the main ideas and techniques, as you understand them, organized in a clear and helpful way. Your target audience is: yourself, the week before the final exam, or two years from now when you want to look back. Try to include some or all of the following.

- Include most of the important concepts and theorems. Leave out things, too. I'm not asking you to write a self-contained textbook, just an outline. You don't need to write down every definition, but maybe include important or interesting ones.
- Include the important problem-solving techniques (e.g. parametrizing curves. What different types of curves have you had to parametrize, and how do you do it?)
- Include some intuition or metaphors about "what's really going on." (e.g.  $\int_C f ds$  is just "the area of the curtain.") No one is going to read these but me and you; extra points if you make me laugh.
- **Organize the ideas in a way that makes sense to you**, not necessarily just chronologically. Use pictures or diagrams if you want. Originality encouraged.

I'll be grading the study outline very leniently. Try to have fun with it. And remember to do the weekly survey.