Math 126 Calculus II

Tips for Studying for the Final Exam

The exam is Friday, December 15, 1:45-3:45 p.m. It's length will be approximately one and a half times the length of the first two exams. Make sure you know what room your exam is in.

Math 126A	Professor Stanton	Last name A-G, DBRT 210
Math 126A	Professor Stanton	Last name H-O, DBRT 213
Math 126A	Professor Stanton	Last name P-Z, DBRT 214
Math 126B	Professor Arana	LIBR 107
Math 126C	Professor Snow	LIBR 107

The exam will cover the entire course. The specific sections covered are chapter 6, except for section 6.12, chapter 7, except for section 7.5, chapter 8, and sections 9.4-9.7 and 9.9. In regards to the inverse trig functions, you are only responsible for the inverses of $\sin(x)$, $\cos(x)$ and $\tan(x)$. For the hyperbolic functions, you are only responsible for $\sinh(x)$, $\cosh(x)$, $\tanh(x)$. Picard's method (a topic in section 8.2) and power series solutions of differential equations (a topic in section 8.11) will not be included. More weight will be given to material we have covered since the last exam (starting with section 8.8) than to material which was covered on the first two exams. More specific information about the final may be available later. If so, it will be posted on the web site

http://www.nd.edu/∼nancy/Math126/announcements.html

Calculators will be allowed. However, you must show all your work and all important steps on each problem. We have chosen the exam problems carefully to test your knowledge and understanding of the topics we have studied. You will get very little credit or no credit for just writing down an answer you find on your calculator.

The "Questions to Guide Your Review" at the end of each chapter of Thomas and Finney do an excellent job of giving you a review of what the basic concepts are. If you don't have time to look at all the questions, look at the ones on the tip sheets for Exams I and II and at p. 699 #24-30,33,34, and p. 777 #9,10,12,13,16-18,20,21.

A good strategy for practicing computation is to go back through the homework problems and work problems similar to those assigned. At the end of each chapter in Thomas and Finney, there are "Practice Exercises" and "Additional Exercises–Theory, Examples." Unlike the problems in the sections, these problems come with fewer clues as to how to proceed. Begin by studying the material, to make sure you have everything at your finger tips. Then work an assortment of the odd-numbered problems. You might at least try to look at the ones mentioned in the tip sheets for Exams I and II and at p. 700 #41,43,51,53,55,59,63,67,77 and p. 779 #33,35,41,43,45,47,49,51,53,59,67,69,79,93,95.

We have covered lots of topics. On an exam designed to take two hours, we cannot possibly ask you a question about each topic.