Math 126 Calculus II

Tips for Studying for the Final Exam

The exam is Thursday, December 16, 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. Here is a list of room assignments for the exam:

Math 126A	Professor Snow	OSHA 204
Math 126B	Professor Stanton	GALV 283
Math 126C	Professor Lazarovici	DBRT 141

There will be a review session the evening of Wednesday, December 15, in room 283 Galvin at 7:00 p.m. This is your chance to get last minute questions answered.

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 chapter 9 except for sections 9.2 and 9.8. 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 $\sinh(x)$, $\cosh(x)$, $\tanh(x)$ and their inverses. 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 (sections 8.10 and 8.11 and chapter 9) 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.

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 also try checking whether the following works:

> Integral z-squared dz
> from 1 to the square root of 3
> times the cosine
> of three pi over 9
> equals log of the cube root of e.
> —(author unknown)

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