Math 1132 Spring 2010 Sections 10D, 11D, 20D

Review of 1131Q

Here is a copy of the review sheet I typed up for my students in 1131Q for their final.

Brief course description: This course, a continuation of Math 1131, focuses on techniques and applications of integration and infinite series. Concepts will be treated from a geometric and algebraic perspective.

Topics Covered: Sections to be covered from the text are Chapters 5 through 8 along with 10 and 11. A syllabus is in a weekly chart here. Since lectures are twice a week, half the weekly material will usually be covered in each lecture. You are strongly urged to read the book *before* the corresponding lecture in the class and to use office hours of the instructor and TAs, as well as the Q Center to get help. *The pace of this course is not slow*. If you blow off class for a week, you may find yourself completely lost and it can be hard to catch up. Make sure to get any misunderstandings about the material cleared up right away!

Prerequisites: Math 1131. In particular, you are expected to be comfortable with differential calculus (techniques of integration make extensive use of derivatives), but if you find your expertise in this area inadequate, make sure to seriously review the material.

Homework: Your homework problems will be done using WebAssign. This provides a minimal amount of work you need to do to learn the material. Virtually the only way to learn calculus well is to solve *lots* of problems, and more is better than less if a fluent command of the material is your goal. Some homework questions may appear on quizzes or exams in a slightly altered form (*e.g.*, different numbers are used).

It is a mistake to skip homework, because no skills can be learned by passive involvement, but only by regular practice. Think about how often the UConn basketball team drills basic moves and shots, even if they play a game just once a week. Do you think they practice only once a week? And do they wait to cram all their practice until the night before a game? Skills are learned best over *time*; you can't learn several weeks of material from this course only right before a test.

Exams: There will be a Gateway exam, 2 midterm exams, and a final.

- Information about the Gateway exam and room locations for the midterm and final exams are posted on the common course page.
- Some problems like (but not identical to) those on the homework may be on the exam, but the exam will also have new problems. The exams will test how well you have understood the material, not whether you can solve only the problems you have already solved on the homeworks.
- Bring UConn photo ID to each exam.
- If you need exam accomodations based on a documented disability, you need to speak with both the Center for Student Disabilities and the course instructor *within the first two weeks* of the semester.

Course grade: On the common course page (for all Math 1132 lectures) there is a breakdown of how much different parts of the course contribute to the course grade (including quizzes, clickers, and lab projects).

Makeup policy: Late work will **not** be accepted. If a true emergency arises, and you must miss an exam, you are responsible for notifying your TA beforehand, supplying proper documentation, and scheduling a makeup exam. On February 2, 2009, the University Senate passed a motion about

religious observances which stipulated that "Students anticipating such a conflict should inform their instructor in writing within the first three weeks of the semester, and prior to the anticipated absence, and should take the initiative to work out with the instructor a schedule for making up missed work. For conflicts with final examinations, students should, as usual, contact the Office of Student Services and Advocacy (formerly the Dean of Students Office)."

Quiz Information

Quiz Date	Sections Covered	Solution
01/28/2010	5.1-5.5	#1
02/04/2010	6.1, 6.2, 6.4	#2
02/18/2010	7.1-7.3	#3
03/25/2010	11.1, 11.2	#4
04/8/2010	11.3, 11.4	#5
04/15/2010	11.10, 9.1	#6
04/22/2010	Chapter 6	#7
04/24/2010	Chapter 7	#8

Useful Links:

- Coordinators Webpage
- Gateway Exam Schedule
- Algebra Review
- Trig Review
- Lecture Schedule

Credit: I *respectfully* stole some of the information for this page from Keith Conrad. Thanks Professor Conrad!