

FOUNDATIONS FOR HIGHER MATHEMATICS 310-310W

Having fun in a straitjacket

- **Textbook:** How to Prove It, *A structured Approach* second edition. Author: Daniel J. Velleman. (See special instructions for Math 310W below.)
- **Class Times:** Classes are MWF 10-11AM in McDonnell 162 for Math 310 and Monday 11AM-12 noon, January Hall 10 for Math 310W.
- **Instructor:** Mohan Kumar, Room 111 A, Cupples I. Phone: 5-6728; email: kumar at wustl dot edu and URL:
<http://www.math.wustl.edu/~kumar/courses/310-2011/foundations.html>
- **Office Hours:** Monday 2-3pm and Thursday 12-1pm or by appointment.
- **Homework:** weekly. I will try to post them during the weekend and they are due the Monday a week from then.
- **Answers to Homework:** If there is sufficient interest or if I feel that a large number of students have done inadequately in an assignment, I may post the answers to the assignments.
- **Exams:** There will be two midterms and a final. The first midterm will be on Monday, September 19 and the second will be on Wednesday November 9, (in class, one hour) and the final is on Monday 19, December 10.30-12.30.
- **Grading:** 85-100%-A; 70-84%-B; 50-69%-C; less than 50% will be an F. Homework will count for 35% of the final grade, first midterm for 10%, second midterm for 20% and the final for 35%.
- **310W:** This is meant for people in 310W, though others might find it useful and all are welcome to attend. In 310W, all submitted work is expected to be done in the math typesetting system known as \TeX . I will give an introduction to this for a couple of weeks. Those of you who

use a windows system can download the program free from ‘Miktex’. (Be warned that it is a fairly large program and might take some time to download). This comes bundled with a plain text editor, but if you prefer another one (any ASCII editor will do), you may use it instead. You can not use MSword or similar programs. It will be good to have some basic book on T_EX. For example, *More Math into L^AT_EX*, by G. Grätzer. There are other programs built on T_EX, like LyX, which tries to make it closer to a wysiwyg program, but I will not go into these in the class.

- **Plan of the course:** We plan to cover the first six chapters of the book (may be with some back and forth) and possibly the seventh. If we have a few weeks left over, I plan to do construction of the number system.