

EXAM 3 DETAILS

The third exam in MATH 202 is on Wednesday, April 25. As usual, the exam will start promptly at 1:00 pm and be collected promptly at 2:05 pm. (A five minute grace period.) You are not allowed any aids for the exams: no note cards, no calculators, no electronic devices, etc. Professor Sergei Avdonin will proctor this exam, and extra paper for scrap work will be available. As always, you are expected to use proper mathematical notation in your solutions. Sloppy writing and incorrect notation will be penalized.

The exam covers sections 14.1-14.7 and 15.1-15.4 in your textbook.

On the website is a link to a former final exam (with solutions) in Calculus III. I have also suggested some review problems to do from your textbook. You already have done these for homework, but the idea is to get you to do at least one representative problem from each section for studying. This will help you identify the sections that you need to review more carefully.

In Chapter 15, in addition to being able to compute line integrals, you need to know the tests for conservative vector fields in 2- and 3-dimensions, how to compute $\operatorname{div} \vec{F}$ and $\operatorname{curl} \vec{F}$, and the statements of the Fundamental Theorem of Line Integrals (Thm 15.5), Independence of Path and Conservative Vector Fields (Thm 15.6), Theorem 15.7, and Green's Theorem (Theorem 15.8). You won't be asked to recite the statements of theorems precisely, but you need to understand the meaning of these theorems and how to use them.

On Monday, April 23, Professor Rhodes will answer review questions in class. Class is cancelled on Tuesday, April 24, and the exam is on Wednesday. Study hard and good luck. Then enjoy Springfest on Friday.