

MATH 129 FINAL EXAM INFORMATION – SPRING 2008

PROCEDURES

- The final exam is on Monday, May 12 from 8:00 – 10:00 am. Do not be late. You will not be given additional time if you arrive after 8:00 am. We recommend arriving 15 minutes early.
- If you will be using DRC testing accommodations, you should arrive 15 minutes early to the testing room at DRC.
- Bring your graphing calculator. Any model is allowed on the final exam. You will not be allowed to borrow or share a calculator.
- No formula sheets or notes are allowed. An integration table will be provided.
- Bring a picture ID.
- The final exam is not given in your usual classroom. You will find the room assignments at <http://math.arizona.edu/~courseinfo/common/#examlocations>. You will not be allowed to take the final in a room other than the one assigned to your section.
- Because several sections will be in the same room, students in each section will need to sit together. Additional directions will be given at the test site.
- All cell phones and electronic devices such as PDAs must be turned off during the exam. Vibrate or silence modes are not allowed.
- You will not be allowed to leave the exam room until 9:00 am.

ABOUT THE EXAM

- There will be 13-15 problems on the final exam. The point values for each problem will vary. The values will be listed on the cover sheet of your exam.
- Some problems may have the instructions “set up only”. Although you do not need to simplify your set up, the set up should be complete.
- A few questions might have a multiple choice, short answer, matching, or True/False format.
- Except where noted, you must show all work to get credit. Your final answer must also follow from your work (even if your answer is correct).
- You should not use approximation techniques unless specifically told to do so. For example: don't use the built-in numerical integration feature on your calculator if the Fundamental Theorem can be used to evaluate a definite integral. For example: don't use a comparison to determine if an improper integral converges if you are asked for the integral's value.
- Answers should be in exact form. For example: don't write 0.693 if your answer is $\ln 2$. If your answer is $\cos(\pi/4)$, you should write $\sqrt{2}/2$ or $1/\sqrt{2}$.
- Integration tables will be provided. If you use a formula from the table, it would be helpful for the graders if you include the formula number in your work.
- You need to know the following integration techniques: substitution, integration by parts, method of partial fractions, and trigonometric substitution.
- You need to know the following geometry formulas: volume of a cylinder and box; Pythagorean Theorem. You need to be able to use similar right triangles.
- You should know the Taylor series about 0 for $\sin x$, $\cos x$, e^x , $1/(1-x)$, $\ln(1+x)$, Binomial series.
- The Allsums, Slopefield, and Euler Numerical programs are relevant for the course. Although there will be no problem where the only way to solve it is to use one of these programs, having the programs might be helpful.
- Problems involving work will only use units of pounds and feet.
- The final exam review packet (posted at <http://math.arizona.edu/~calc>) provides additional problems for practice. Although the questions on the packet are not samples of actual exam questions, they do cover the topics that are relevant for the exam.
- Problems at the end of each chapter (Review Exercises and Check Your Understanding) can also provide extra practice and review.