

Math 15, Exam 2, Oct 1, 2009

Instructions

Calculators are not allowed to use on this exam.

1. Be sure to print your name and your instructor's name in the space provided.
2. Work all problems. Show all work. Full credit will be given only if work is shown which fully justifies your answer.
3. There will be sufficient space under each problem in which to show your work.
4. Box or underline each final answer or place in the provided box. *All final answers must be simplified!*
5. Exam is out of 100 points. Do not remove the staple!
6. **Turn off your cell phone if you have one with you.**

Get ready for the exam

1. Some formulas will be supplied (see back). You are asked to remember other formulas and techniques from Chapters 7 and 8 and Math 14.
2. You should be able to do all of the following:
 - a. Use integration by parts.
 - b. Integrate combinations of trigonometric functions.
 - c. Perform trigonometric substitution.
 - d. Use the method of partial fractions to integrate rational functions.
 - e. Determine whether an integral is convergent or divergent.
3. Required skills from Math 14, Algebra, Trigonometry:
 - a. Find areas using calculus.
 - b. Know how to integrate by changes of variables.
 - c. Trigonometric identities.
 - d. Long division.
 - e. Complete the square.

