

MATH 141, Fall 2014
EXAM 2 TOPICS

Exam 2 will take place on Thursday, October 30.

The exam will be one class period long. Graphing calculators (TI- \leq 86) are allowed and are somewhat useful. Be aware that I will come around and delete their memory before the exam. You do not need to bring your QC ID to this exam.

The exam covers all material covered since the first exam, including Sections 2.1–2.7 of Stewart's *Essential Calculus*.

In addition to computational questions, there will be questions that ask you to understand concepts from the course, possibly including, and not limited to: (Pages apply to both 1st and 2nd Editions)

- The difference between a secant line and a tangent line, and average and instantaneous velocities or rates of change. (Section 2.1)
- The limit definition of the derivative (p. 83, 1st Ed, p. 84, 2nd Ed)
- The definition of differentiable (p. 87)

You should understand how to use your graphing calculator to:

- Use **Solver** in the **MATH** menu to find values for y defined implicitly as a function of x .

To study for the exam:

- I **especially recommend** the Chapter Review given for Chapter 2 (pp. 138–141 (1st Ed) or pp. 140–143 (2nd Ed)) *Take these questions seriously.*
- Verify that you understand all definitions from Chapter 2 similarly to how we discussed in the first two classes of the semester.
- Review Webwork assignments 4–6. It is possible to return to an assignment and see the correct answers.
- There will be a Question and Answer session during the second half of class on Tuesday, October 28. Prepare questions to ask during this Question and Answer session.