

# MATH 201, Fall 2014

## EXAM 1 TOPICS

**Exam 1** will take place during the first half of class on Thursday, October 2.

The exam will be 50 minutes long. Graphing calculators (TI- $\leq$ 86) are allowed and somewhat useful. Be aware that I will come around and delete their memory before the exam.

**Bring your QC ID to class for this first exam.**

The exam covers all material covered so far in this course, including

- Sections 9.1–9.4
- Sections 10.1–10.6

In addition to computational questions, there will be questions that ask you to understand concepts from the course, possibly including, and not limited to:

- Intuitive differentials explanation of arc length formula for parametric equations (p. 494, 1 Ed / p. 517, 2 Ed) and polar equations (p. 509, 1 Ed / p. 533, 2 Ed)
- Intuitive explanation of area formula for polar coordinates (p. 507, 1 Ed / p. 531, 2 Ed)

You should understand how to use your graphing calculator to:

- Graph parametric and polar equations using appropriate plotting modes.
- Choose suitable window to enhance the graph.

**To study for the exam:**

- I **especially recommend** the Chapter Reviews given for Chapter 9 (pp. 517–518 (1st Ed) or pp. 541–542 (2nd Ed)) and Chapter 10 (pp. 589–592 (1st Ed) or pp. 616–620 (2nd Ed)). *Take these questions seriously.*
- Review Webwork assignments 1–3. 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, September 30. Prepare questions to ask during this Question and Answer session.