

MATH 201, Fall 2017
EXAM 1 TOPICS

Exam 1 will take place during the first half of class on Monday, 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 Wednesday, September 27. Prepare questions to ask during this Question and Answer session.