

**Calculus I**

**MATH 1210 – Section 023 – Spring 2025**

**Exam 3**

**Topics covered**

**Exam 3 is in-class on Friday, Apr 4, 2025**

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Exam 3 is 50 minutes, in-class.

All you need to bring is a pen or pencil to write with.

None of the following are allowed for exams: notes, textbook, calculators, reference sheet, laptop, phone.

Exam 3 covers the following sections in the textbook:

- Sections 3.3 - 3.8
- Sections 4.1-4.2

The material on exam 3 will be drawn from the following homework assignments:

- Homework 8
- Homework 9
- Homework 10
- Homework 11

The concepts tested include the following:

- Applications of differentiation
  - Inflection points
  - Graphing functions with calculus
  - “Practical problems”: problems involving optimization with calculus
  - Mean value theorem
  - Solving equations numerically
  - Antiderivatives
- Area and definite integrals
  - Computing areas via polygons
  - Summations
  - Riemann sums and integrable functions
  - The definite integral

*“Will topic X be covered on the exam?”*

A good rule of thumb for answering the above question is to answer the related question,

*“Is topic X covered in one of the associated homework assignments?”*

The answers to the above two questions are the same.