

Math 207 Class Meetings - Spring 2021

Class 1 - was not recorded

Class 2 - [Part 1](#), [Part 2](#)

Monday, January 25

Completing the Square, Complete Analysis of a Function, Average Velocity

[Class 3](#)

Wednesday, January 27

Average Velocity, Inverse Functions

[Class 4](#)

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[Class 4](#)

Monday, February 1

Inverse trig functions, circles, limits at infinity

[Class 5](#)

Wednesday, February 3

Limits at Infinity, Indeterminates

[Class 6](#)

Monday, February 8; unit circle definitions, logarithmic rules 1 and 2, finished end-behavior (rational functions), two-sided limits, $\sin x/x$, trigonometric limits

[Class 7](#)

Wednesday, February 10

More Two-Sided Limits, Continuous Functions

[Class 8](#)

Wednesday, Feb 17

Instantaneous Velocity, Differentiation, Differentiating Basic Functions and Trig Functions

[Class 9](#)

Monday, Feb 22

Exam 2 Review, Least Upper Bound Property, Intermediate Value Theorem (started)

Class 10 - Exam 1

[Class 11](#)

Monday, March 1

Proving the Intermediate Value Theorem, Differentiating Generalized Polynomials

[Class 12](#)

Wednesday, March 2

Relative Extrema

[Class 13](#)

Monday, March 8

The Bolzano- Weierstrass Theorem, Limits related to e , Differentiating Logarithmic Functions

[Class 14](#)

The Product Rule, Differentiating Logarithmic Functions, The Extrema Value Theorem, Mean Value Theorem, and Antiderivatives and Initial Value Problems

Class 15 - Exam 2

[Class 16](#)

Wednesday, March 17

Quotient Rule, Chain Rule, Inverse Trigonometric Expressions, Differentiating Exponential Functions (started)

[Class 17](#)

Monday, March 22

Differentiating Exponential Functions, Antiderivatives After the Chain Rule, Induction

[Class 18](#)

Wednesday, March 24

Differentiating Inverse Trigonometric Functions, Implicit Differentiation, Summatio

[Class 19](#)

Monday, April 5

More on Summation, Arithmetic Sequences (optional), Related Rates, The Second Derivative Test

[Class 20](#)

Wednesday, April 7

Riemann Sums

[Class 21](#)

Monday, April 12
Exam Review, Finished Riemann Sums,
Concavity

Class 22 - Exam 3

[Class 23](#)

Monday, April 19
The Fundamental Theorem of Calculus

[Class 24](#)

Wednesday, April 21
Applications of the Definite Integral, Integration
by Substitution, Improper Integrals

[Class 25](#)

Monday, April 26
Integration by Parts, Logarithms Defined by the
Fundamental Theorem

[Class 26](#)

Wednesday, April 28
Graphing the Antiderivative, Graphing points in
Polar Coordinates

[Class 27](#)

May 3, 2021
Graphing in Polar Coordinates, L'Hospital's Rule

[Class 28](#)

Wednesday, May 5
Proof by Contradiction: $\sqrt{2}$ is irrational, Cantor's
Diagonal Argument, Vectors, Dot Product

[Class 29](#)

Monday, May 10
Taylor Polynomials, Numerical Differentiation of
Polynomials

Class 30 - Exam 4