

Section 1

TA: Dante  
Buhl

Welcome to  
Section!

Practice

# Section 1

TA: Dante Buhl

UCSC Math-19B

January 19, 2024

# Plan for Today

## Section 1

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## Topics to Cover

- Introductions and forming groups
- Review Activity

## Section Activity 1

- 3 questions

## Assignments

- Homework 1 (Due Fri, Jan. 19<sup>th</sup>)

# Introductions

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Hello! I'm Dante.

About Me:

- graduate student in Applied Math
- 22 years old
- Play guitar
- Have two pet snakes
- Researcher in Fluid Dynamics



# Get to know your classmates

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Go meet 5 new people and ask them about their winter break and how they feel today on the animal scale :).



NOTE: Think about people you might want to form "working groups" with.

# Learning Outcomes

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- Understanding how to recognize and compute the value of signed area under curves.
- Differentiating different area under curve approximations and how to construct them.
- Applying Linearity to the sums, limits, and integrals.

# Review Activity

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Or you can find it in canvas files in section materials titled  
reviewactivity1.pdf

# Section Activity 1 (Access Code: 117f1)

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Practice

$$p = \rho gh$$

$$l = 154m, h = 11m, \rho = 970.56Kg/m^3$$

$$g = 9.8m/s^2$$

$$F = pA$$