

The background of the slide is a dark, textured surface covered with a dense, repeating pattern of mathematical symbols and numbers. These include various numerals (0-9), plus signs, minus signs, multiplication signs, and division signs, rendered in a light teal or green color. The symbols are of different sizes and are scattered across the entire background, creating a complex, abstract pattern.

Derivatives are just
the Slope

MATH 110:
Calculus I

Derivatives

- Once my friend took Calc I and was very confused about the concept of the derivative
- I told her that the derivative is a fancy word for slope, and she replied “Oh... Why didn't my teacher just tell us that?”

The background is a dark, textured surface covered with a dense, overlapping pattern of mathematical symbols and numbers. The symbols include various numbers (0-9), mathematical operators like plus (+), minus (-), multiplication (x), division (/), and percent (%), as well as geometric shapes like triangles and circles. The colors are primarily dark green and black, with some lighter green and white highlights, creating a complex, almost chaotic visual effect.

Questions?

Labs

- You don't need to answer the questions verbatim (word for word)
 - Discussing similar concepts and ideas are fine and encouraged
- You can answer in paragraph form
 - Sometimes you can convey more information in this manner
- If you worked in a group don't forget to submit the work or submit a list of your teammates

Lab 5

- In your own words, what is a derivative?
- Compare and contrast the derivative of a function and a slope of a function
- Do you think I was correct in telling my friend that “The derivative is just the slope”?
- How would you describe the concept of a derivative to:
 - Your friend who hasn't taken calculus
 - A high school student in 9th grade
 - A kindergardener