

The background of the slide is a dark, textured surface covered with a dense pattern of mathematical symbols and numbers. These include various integers (0-9), fractions (like 1/2, 3/4), and mathematical operators (plus, minus, multiplication, division, percent, infinity, and hash symbols). The symbols are rendered in different shades of green and teal, creating a complex, abstract pattern. The text is centered on this background.

Working Backwards

MATH 110:
Calculus I

Backwards Working

- As we learned earlier, mathematicians like to be able to reverse things
- Inverses
- This applies to derivatives too

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, black, and white, with some lighter green accents. The overall effect is a complex, chaotic, and intellectual visual field.

Questions?

Lab 10

- Why do you think undoing things is so interesting to mathematicians?
- If the derivative represents the slope of a function, without looking it up, what do you think the inverse of the derivative represents? Why do you think this?
- Look up the answer to the above question, does it intuitively make sense? Why or why not?