

Infinitesimals

MATH 110:
Calculus I

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?

Labs

- You are encouraged to collaborate and discuss among your peers
- You will submit one lab for your group
- Type it up and submit it online by the end of the next lab
 - Cite all the resources used including other groups if you got ideas from them
- This time can also be used to ask me questions or to help each other with the current homework

Lab 3

- What are infinitesimals*?
- Compare and contrast infinitesimals and limits?
- Which do you prefer? Which is more intuitive?
- Where do you think you could use infinitesimals in the real world?
- What is the Intermediate Value Theorem (IVT)*?
- Find a few applications of the IVT. (This could be math ones or real world ones)

*In your own words