

Field Guide to Functions

Calculus I

Target date: 9 October 2024, College of the Atlantic

Guidelines

During the first few weeks of the term you will complete a field guide to functions. Some thoughts/guidelines:

- Work in pairs or, at most, groups of three.
- Should include the “basic” functions we’ll cover in the first part of the course, including linear functions, exponentials, sines and cosines, logarithms, power functions.
- Include something about ways to distinguish between similar-looking functions: e.g. exponentials and parabolas.
- Describe all (or most) functions using the rule of four: graphs, equations, words, and tables of values.
- Does not have to be a traditional field guide. Almost any format is fine. Zines, comics, watercolor, sonnets, ...
- Have fun! Be creative, artistic, poetic, etc.
- The main goal of this assignment is for you to synthesize and solidify what we’ve covered about the properties and uses of the basic functions we’ve been reviewing.
- Don’t worry about having a polished final product. A DIY vibe is fine.
- Aim to spend maybe roughly two hours on this assignment. Put some thought and care into it, but don’t obsess over it.
- I’m not going to give a formal letter grade to this assignment. The only way to do poorly on this assignment is to not do it.