Realistic Limits

MATH 110: Calculus I

Limits at Infinity?

- Infinity is not realistic
- “A lot of the time, if a question includes the word "infinity," the answer is "an infinite amount"—when there's an answer at all.“
  - https://what-if.xkcd.com/109/
- Log at infinity is infinite, but the log of the universe in planck length is less than 62

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 4

- What is the point of limits at infinity if they are not realistic?
- Are there any applications where this makes sense?
- Give a few examples where the limit at infinity doesn't seem applicable and a few where it does.
- What does it mean for x to be infinite in reality?
- Can you think of a few examples of infinite limits not involving numbers?
- What are your personal thought on this concept?
  - e.g. It's silly because they aren't practical