## IEMS 351 Lab 1

## September 2024

## **Exercises**

Step 1: Import math, numpy, and matplotlib packages.

Step 2: Please try out the following and share your observations:

- 1. Plot  $f(x) = e^x$  from x = -5 to 5.
- 2. Plot  $f(x) = x^2$  from x = -5 to 5.
- 3. Plot  $f(x) = \sin \frac{1}{x}$  from x = 0.01 to 2.
- 4. Plot f(x) = |x| from x = -1 to 1.
- 5. Plot  $f(x) = \max(-x, x)$  from x = -1 to 1.
- 6. Plot  $f(x) = \max(-x, x) 0.2x^2$  from x = -4 to 4.