

### Math 495R Homework 1 (Simple plots)

The next three homework assignments will help you to become familiar with plotting and animations in python. Later in the semester you will have labs that will ask you to plot and/or animate certain functions and you will want to use these labs as reference.

- (1) In the ACME Introduction to Matplotlib lab 5 in the Python Essentials document, do Problem 2 (plotting trig functions).
- (2) In the ACME Introduction to Matplotlib lab 5 in the Python Essentials document, do Problem 3 (plotting  $1/(1 - x)$ ).
- (3) In the ACME Introduction to Matplotlib lab 5 in the Python Essentials document, do Problem 4 (creating subplots).
- (4) In the ACME Introduction to Matplotlib lab 5 in the Python Essentials document, do Problem 5 (creating scatter plots and histograms).