# Introduction

## rctcwyvrn

# August 2020

# 1 Introductions

#### 1.1 Errata

- Lectures are recorded and posted after class (you can earn bonus points for participating live though)
- $\bullet\,$  Slides are also posted afterwards
- Communication
  - 1. Start with piazza
  - 2. TAs have zoom office hours
  - 3. Canvas conversations/inbox thingy

## 1.2 Course intro

- 1. What are numerical algorithms
- 2. Work with floating point systems
- 3. Improve algorithms
- 4. Balance trade offs (accuracy, efficiency, robustness)
- 5. Use iterative methods for linear systems

Try to solve f(x) = b numerically for some b

#### Course material

• Textbook: A first course in numerical methods

• Code: MATLAB

#### Flex points

• You can adjust the weighting of the grading scheme (to improve grades)

- $\bullet$  Get them from answering clicker questions and questions on piazza
- $\bullet$  Completing in class activities

## Assignments

- Submit the matlab live script and a pdf export
- ullet 7 assignments, one every 2-3 weeks
- Lowest one is dropped
- $\bullet$  Gradescope

#### Lectures

- 1. Q/A on piazza questions
- 2. Individual/small group worksheets
- 3. Assignments when they're soon due