

# Week02 – multi-variate optimization & root-finding algorithms

George McNinch

2024-01-20

In week 2, we will discuss *multi-variate optimization* (including Lagrange multipliers) and *root finding algorithms*.

The homework assignment due on gradescope this week, on Friday 2024-01-29, is:

- [\[problem set 1\]](#) [\[pdf\]](#)
- [\[problem set 1 solutions\]](#)

There are three associated [jupyter notebooks](#).

- **multi-variate optimization** [\[via colab\]](#) [\[download notebook\]](#) [\[pdf\]](#)
  - **multi-variate cont'd: Lagrange multipliers** [\[via colab\]](#) [\[download notebook\]](#) [\[pdf\]](#)
  - **root finding algorithms** [\[via colab\]](#) [\[download notebook\]](#) [\[pdf\]](#)
-