

# CTA200 2022 Assignment 3

DUE: Tuesday May 10th by 1:00 PM

## Question 1

In this question, we iterated the equation  $z_{n+1} = z_n^2 + c$  for each point  $c = x + iy$  in the complex plane for  $-2 < x < 2$  and  $-2 < y < 2$ . A function called `iterate` was written in the file `iteration.py` which performs this iteration `N` times given an initial  $z_0 = 0$  and  $c = x + iy$ .

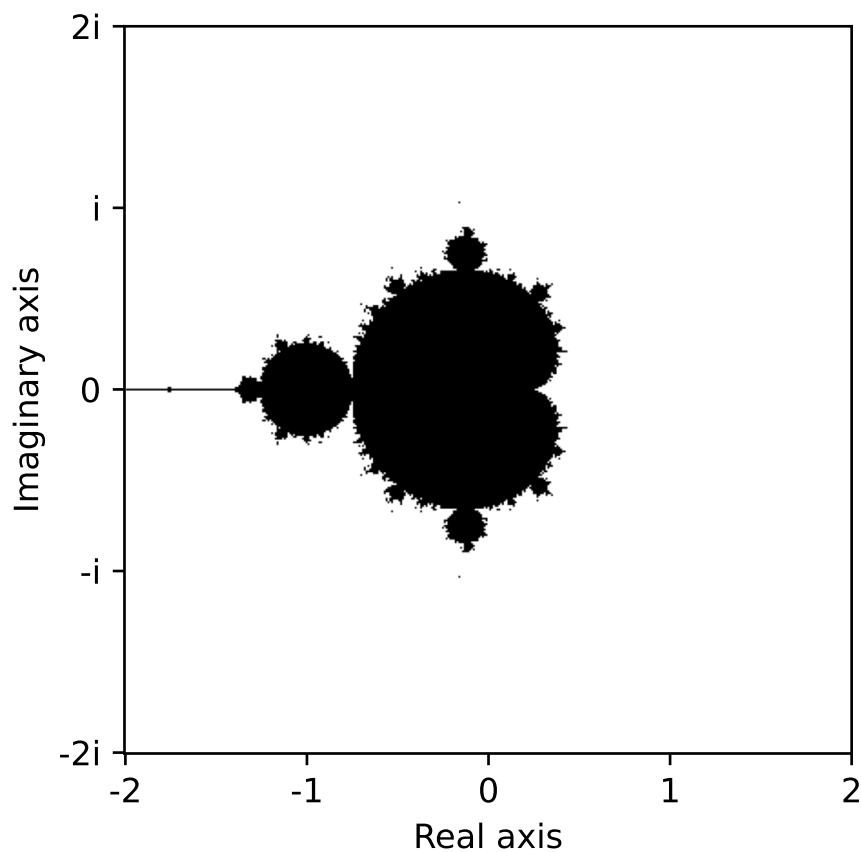


Figure 1

## Question 2

## Question 3