

# Nonlinear Optimization - Homework 1

Christian Segercrantz 481056

October 7, 2021

## 1.1

We will first examine whether the set is non-empty and convex.

## 1.2

## 1.3

## 1.4

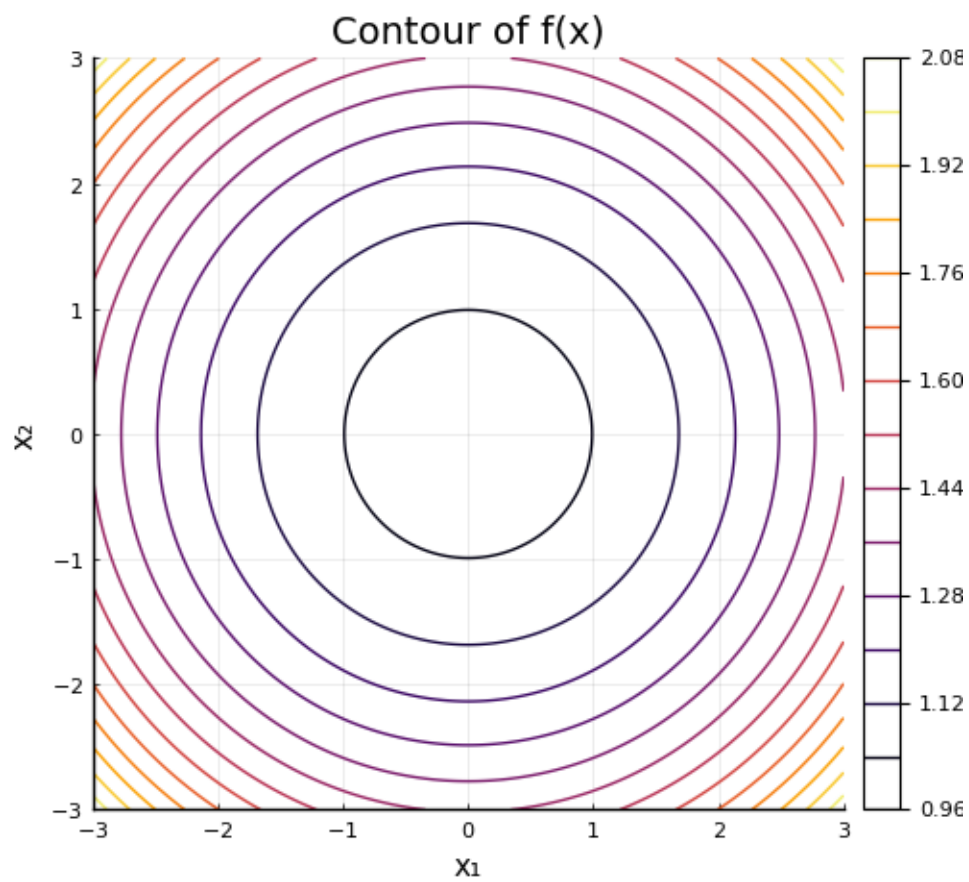


Figure 1: Capion here