# Assignment 1 - MA 108

### Aryaman Maithani
D3-T5 TA

### 11th March 2020

Q.1. Show that $\mathbb{R}^2 \setminus \{(0,0)\}$ is not star shaped.
*Bonus.* Let $S$ be any finite subset of $\mathbb{R}^2$.
Prove or disprove that $\mathbb{R} \setminus S$ is star-shaped.

Q.2. Solve Q.10.(i) to completion.