

Topology I – Homework 6

Junwoo Yang

May 8, 2020

Problem 6.1 Let $p = (0, \frac{1}{2}) \in \mathbb{R}^2$ and $C = \{x \in \mathbb{R}^2 \mid d(x, p) = \frac{1}{2}, x \neq (0, 1)\}$. Show that C is homeomorphic to $\mathbb{R} \times \{0\}$.

Proof.

□