

Math 429, Quiz 8.

Your name:

1. Which of the following spaces are simply connected? (YES or NO)

(a) a discrete space — NO (if more than one point)

(b) an indiscrete space — YES;

(c) \mathbb{R}^2 — YES;

(d) $\mathbb{R}^3 \setminus 0$ — YES.

2. (31.6.) Calculate the fundamental group of the quotient space of disk D^2 obtained by identification of each $x \in D^2$ with $-x$.