

Wstęp do topologii algebraicznej

Zadania 2

- (1) Show that every metric space is normal.
- (2) Show that \mathbb{R} and \mathbb{R}^2 are not homeomorphic.
- (3) Show that every continuous map $f: [0, 1] \rightarrow [0, 1]$ has a *fixed point*, that is, there exists a point $x \in [0, 1]$ with $f(x) = x$.