

Exercises

E9.90 [OTG] Find a function $f : \mathbb{R} \rightarrow \mathbb{R}$ such that

$$\forall x, y \in \mathbb{R}, x \neq y \Rightarrow |f(x) - f(y)| < |x - y|$$

but that has no fixed points.

Solution 1. [27D]