Exercises

13.27 [16K] Find a function $f : \mathbb{R} \to \mathbb{R}$ such that

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

but for which there is no ”fixed point” (that is a point x for which $f(x) = x$=.

Solution 1. *[16M]*