Exercises

13.27 [16J] Given $L \in (0,1)$ if $f : \mathbb{R} \to \mathbb{R}$ satisfies

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

Then there is only one ”fixed point” that is a point x for which $f(x) = x$.