

$$\mathbb{R} \supset \mathbb{R}^\times \xrightarrow[\text{stetdiff}]{\text{inv}} \mathbb{R}^\times$$

$$\partial_x \text{inv} = \frac{-1}{x^2}$$

$$y \neq 0 \mapsto \overline{x-y} \leq \frac{\overline{y}}{2} \Rightarrow \overline{x} \geq \frac{\overline{y}}{2}$$

$$\overline{\frac{1}{x} - \frac{1}{y}} = \frac{\overline{y-x}}{\overline{x} \overline{y}} \leq 2 \frac{\overline{y-x}}{\overline{y}^2} \text{ stet}$$