$$\overline{e} = e$$

$$\overline{a^{-1}} = \overline{a}^{-1}$$

$$\mathbb{R}^{\times} = \frac{a \in \mathbb{R}}{a \neq 0}$$

$$\mathbb{R}_{>} = \frac{a \in \mathbb{R}}{a > 0} = \mathbb{R}^{\times} \cap \mathbb{R}_{+} = \mathbb{R}_{+}^{\times}$$

$$\mathbb{R}^{\times} \xrightarrow{\overline{()}} \mathbb{R}_{>}$$

$$\mathbb{R}^{\times} \xrightarrow[\text{signum}]{\text{sgn}} \{\pm e\} = \mathbb{R}^{\cup}$$

$$\text{sgn } x = \begin{cases} e & x > 0 \\ -e & x < 0 \end{cases}$$

$$\begin{cases} x = \overline{x} \cdot \text{ sgn } x \\ \overline{x} = x \cdot \text{ sgn } x \end{cases}$$