

$$\bar{\mathbb{R}} = [-\infty, \infty] = \mathbb{R} \cup \{+\infty\} \cup \{-\infty\}$$

ordem

$$-\infty < a < +\infty \quad \forall a \in \mathbb{R}$$

operações

$$a (+\infty) = \text{sign}(a) (+\infty), \quad a \neq 0$$

$$0 (\bar{\infty}) = 0 \text{ por definição}$$

A carregar ...

$$\begin{aligned} & a (+\infty) = \begin{cases} +\infty & a > 0 \\ -\infty & a < 0 \end{cases} \\ & (+\infty) (+\infty) = (+\infty) \quad | \quad (-\infty) (-\infty) = (-\infty) \\ & \text{não def} = \begin{matrix} +\infty & -\infty \\ | & | \\ 1 & 1 \\ | & | \\ +\infty & -\infty \end{matrix} \end{aligned}$$