

$$\mathbb{R} \supset \mathfrak{h}$$

$$\mathfrak{h}[= \frac{b \in \mathbb{R}}{\mathfrak{h} \leq b} \text{ obere Schranken}$$

$$\mathfrak{h} \text{ oben bes} \Leftrightarrow \mathfrak{h}[\neq \emptyset$$

$$\mathfrak{h}] = \frac{a \in \mathbb{R}}{a \leq \mathfrak{h}} \text{ untere Schranken}$$

$$\mathfrak{h} \text{ unten bes} \Leftrightarrow \mathfrak{h}] \neq \emptyset$$

$$\underbrace{\mathfrak{h}}[= -\mathfrak{h}]$$

$$\mathfrak{h} \text{ oben bes} \Leftrightarrow -\mathfrak{h} \text{ unten bes}$$

$$\mathfrak{h} \subset N \Rightarrow \begin{cases} \mathfrak{h}[\supset N[\\ \mathfrak{h}] \supset N] \end{cases}$$

$$\max / \quad \mathfrak{h}| = \mathfrak{h} \cap \underbrace{\mathfrak{h}}[\text{ falls } \neq \emptyset \text{ greatest element}$$

$$\min / \quad | \mathfrak{h} = \underbrace{\mathfrak{h}}] \cap \mathfrak{h} \text{ falls } \neq \emptyset \text{ least element}$$

$$\mathfrak{h} \neq \emptyset \mathfrak{h}[\xRightarrow{\sup} \bigvee_{\text{least upper bound}} \mathfrak{h}| \leq = | \underbrace{\mathfrak{h}}[$$

$$\mathfrak{h} \neq \emptyset \neq \mathfrak{h}] \xRightarrow{\inf} \bigvee_{\text{greatest lower bound}} \leq | \mathfrak{h} = \underbrace{\mathfrak{h}}]$$

$$\underbrace{\mathfrak{h}}]| \leq = - \leq | \mathfrak{h}$$

$$\mathfrak{h} \subset N \Rightarrow \begin{cases} \mathfrak{h}| \leq \leq N| \leq \\ \leq | \mathfrak{h} \geq \leq | N \end{cases} :$$

$$: \quad \begin{cases} \mathfrak{h} \leq \supset N \leq & \Rightarrow \mathfrak{h}| \leq = | \underbrace{\mathfrak{h}} \leq \leq | \underbrace{N} \leq = N| \leq \\ \mathfrak{h}] \supset N & \Rightarrow \leq | \mathfrak{h} = \underbrace{\mathfrak{h}} \geq | \geq \underbrace{N} \geq | = \leq | N \end{cases}$$