

$$\mathbb{R} \supset \mathbb{I} \xrightarrow[\text{diff}]{\mathcal{V}} \mathbb{R} \Rightarrow \begin{cases} \underline{\mathcal{V}} > 0 \Rightarrow \mathcal{V} \text{ streng isoton} & \underline{\mathcal{V}} \geq 0 \Rightarrow \mathcal{V} \text{ isoton} \\ \underline{\mathcal{V}} = 0 \Rightarrow \mathcal{V} \text{ constant} & \\ \underline{\mathcal{V}} \leq 0 \Rightarrow \mathcal{V} \text{ antiton} & \underline{\mathcal{V}} < 0 \Rightarrow \mathcal{V} \text{ streng antiton} \end{cases}$$

$$x < y \in \mathbb{I} \xrightarrow{\text{MWS}} \bigvee_{x < o < y} {}^y \mathcal{V} - {}^x \mathcal{V} = \underbrace{y-x}_{>0} {}^o \mathcal{V}$$

$$\begin{cases} {}^o \mathcal{V} > 0 \Rightarrow {}^y \mathcal{V} - {}^x \mathcal{V} > 0 \Rightarrow {}^y \mathcal{V} > {}^x \mathcal{V} & {}^o \mathcal{V} \geq 0 \Rightarrow {}^y \mathcal{V} - {}^x \mathcal{V} \geq 0 \Rightarrow {}^y \mathcal{V} \geq {}^x \mathcal{V} \\ {}^o \mathcal{V} = 0 \Rightarrow {}^y \mathcal{V} - {}^x \mathcal{V} = 0 \Rightarrow {}^y \mathcal{V} = {}^x \mathcal{V} & \\ {}^o \mathcal{V} \leq 0 \Rightarrow {}^y \mathcal{V} - {}^x \mathcal{V} \leq 0 \Rightarrow {}^y \mathcal{V} \leq {}^x \mathcal{V} & {}^o \mathcal{V} < 0 \Rightarrow {}^y \mathcal{V} - {}^x \mathcal{V} < 0 \Rightarrow {}^y \mathcal{V} < {}^x \mathcal{V} \end{cases}$$