

$$\begin{array}{ll}
[a, b] := \{x \in \mathbb{R} : a \leq x \leq b\} & \text{(abgeschlossenes Intervall)} \\
\left. \begin{array}{l}
(a, b) := \{x \in \mathbb{R} : a < x < b\} \\
(a, \infty) := \{x \in \mathbb{R} : a < x\}
\end{array} \right\} & \text{offenes Intervall} \\
\left. \begin{array}{l}
(a, b] := \{x \in \mathbb{R} : a < x \leq b\} \\
[a, b) := \{x \in \mathbb{R} : a \leq x < b\} \\
[a, \infty) := \{x \in \mathbb{R} : a \leq x\}
\end{array} \right\} & \text{halboffenes Intervall}
\end{array}$$