

Logic questions

Which of the sets S below satisfy the property that $\forall \{x, y\} \subset \mathbb{R}, (x \in S \wedge y > x) \rightarrow y \notin S$?

- ▶ $S = \mathbb{Z}$
- ▶ $S = \mathbb{R}^+$
- ▶ $S = \mathbb{Z}^+$
- ▶ $S = \{-3, 4, 5\}$