o-Minimality and its Variations

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Assumptions

- $\mathcal{M} = (M, <, ...)$
- < is dense, linear, without endpoints.
- definability with parameters

Definition

The structure \mathcal{M} is called *o-minimal* if every definable subset of M is a finite union of singletons and open intervals with endpoints in $M_{\infty} := M \cup \{-\infty, +\infty\}.$