



Definition

Given a *nonzero* $x \in \mathbf{R}^n$, the *rays* (or *half-lines*) through x is the set

$$\{\lambda x \mid \lambda \geq 0\}$$

Examples

There are two rays in \mathbf{R} , corresponding to $\{x \mid x \geq 0\}$ and $\{x \mid x \leq 0\}$.

