

Definition: Interior of a Set

For $S \subseteq \mathbb{R}^n$ we have the interior of S :

$$\mathring{S} \stackrel{\text{D}}{=} \left\{ x \in \mathbb{R}^n : \exists \varepsilon \in \mathbb{R}^{>0}, B(x, \varepsilon) \subseteq S \right\}$$