

m12

Defn x is an interior
point of $A \subseteq \mathbb{R}^n$ if

$$\exists \varepsilon > 0 : D_\varepsilon(x) \subseteq A$$

$$A^\circ = \{ \text{all interior pts of } A \}$$

Fact: A° is the largest
open subset of A .

~~Defn~~ x is a limit pt of $A \subseteq \mathbb{R}^n$

$$\text{if } \forall \varepsilon > 0 \quad |D_\varepsilon(x) \cap A| \geq 2$$

$$\text{if } \forall \varepsilon > 0 \quad (D_\varepsilon(x) - \{x\}) \cap A \neq \emptyset$$