



Why

In order to speak of the derivative of a function $f : (a, b) \rightarrow \mathbf{R}$ at some point $x_0 \in \mathbf{R}$, we took a limit of deviations from that point. In other words,

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Definition

A subset $U \subset \mathbf{R}^n$ is *open* if for every point $x \in U$ there exists a real number $\varepsilon > 0$ so that $B(x, \varepsilon) \subset U$.

¹Future editions will include.

