

Notes : Calculus and Probability Theory 2021

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Week 1: Intro to Calculus, and Limits

Formal Definition of a Limit

Definition 0.0.1. *Let $f : D \longrightarrow \mathbb{R}$ be a function
if f has a limit b when approaching a if*

$\forall \epsilon > 0, \exists \delta > 0$ such that $\forall x \in D$
if $0 < |x - a| < \delta$ implies that $|f(x) - b| < \epsilon$