Source: [KBhMATH401Limits]

1 | Epsilon Delta Proofs

What a limit actually is...

Formal Definition of a Limit

Definition 1 · Limit Definition $\lim_{x\to a} f(x) = L$ for all $\epsilon>0$, there exists a δ such that $if\ 0<|x-a|<\delta,\ then\ 0<|f(x)-L|<\epsilon$