



METRIC CONVERGENCE

Why

Once we have a notion of distance, we can define a more general notion of convergence.

Definition

A sequence of elements of a metric space *converges* to an fixed element of the space if the sequence of distances between the elements of the fixed element converges to zero.

Notation

Let (A, d) be a metric space. Let $(a_n)_n$ be a sequence in A . Then $\{a\}$ converges to a_0 if $d(a_n, a) \rightarrow 0$.

