



Metric Convergence

1 Why

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

2 Definition

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

2.1 Notation

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

