Uniform norm

Alias

Uniform norm

Superum norm

Infinity norm

Chebyshev norm

I don’t know why it is called as.

Intro

Def

Given a bounded function from real number or complex number to it (I.e.

-> )

, and a parameter which is a set. Then, uniform norm of for is

=

Extension

Maximum norm

When the set is a 1-dimensional vector with finite size (I.e. the number of elem is finite real positive number.). The max function can be applied.

Then the maximum norm is

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Ref

[Uniform norm - Wikipedia](https://en.wikipedia.org/wiki/Uniform_norm)