Why

We want our spaces to be analytically complete.

Definition

Our model is convergence for the real numbers. A metric space is *complete* if every egoprox sequence converges.

Metric Completeness

Egoprox Sequences

Metrics

Sequences

Real Numbers

Distance

Direct Products

Rational Numbers

Length Common Notions

Natural Families

Integer Numbers

Families

Function Composites

Functions

Zero

Natural Order

Relations

Equation Solutions

Natural Numbers

Ordered Pairs

Set Intersections

Set Unions

Empty Set

Unordered Pairs

Power Set

Set Specification

Set Inclusion

Sentences

Equations

Set Equality

Identity

Sets

Objects