Why

TODO

Definition

TODO

Notation

Let R denote the set of real numbers. Let $f : R \to R$. Then f is uniformly continuous at $x \in R$ if

$$(\forall \varepsilon > 0)(\exists \delta > 0)(\forall x \in R)(|x - y| < \delta \implies |f(x) - f(y)| < \varepsilon)$$

for all $y \in R$.

Real Uniform Continuity

Real Continuity

Absolute Value   Sequences

Real Numbers   Length   Natural Differences   Direct Products

Rational Numbers   Natural Families   Natural Order

Integer Numbers   Function Composites   Families   Natural Sums

Zero   Functions

Equation Solutions   Relations   Natural Numbers

Ordered Pairs   Set Unions

Unordered Pairs   Empty Set   Set Intersections

Power Set   Set Specification

Set Inclusion   Sentences

Equations   Set Equality

Identity   Sets

Objects