Why

TODO

Definition

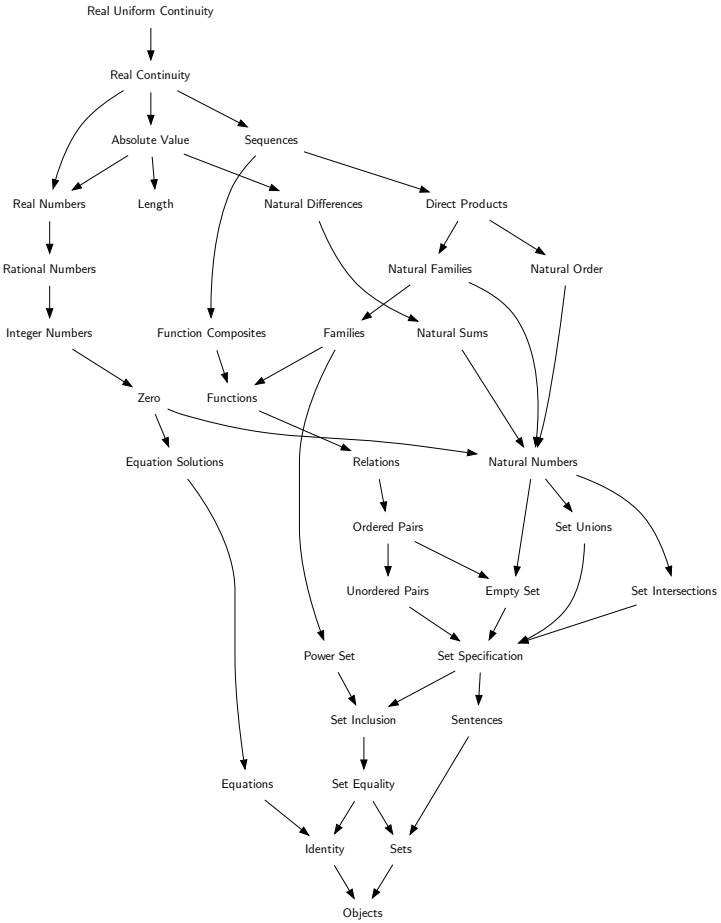
TODO

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