Why

Often we are satisfied with an approximate solution.

Definition

Notation

Approximate Real Optimizers

Least Upper Bounds

Real Order   Real Optimizers

Rational Order   Real Numbers

Optimizers   Rational Numbers

Integer Arithmetic

Integer Products   Natural Multiplicative Identity   Natural Additive Identity

Arithmetic   Identity Elements

Natural Powers

Comparisons   Integer Order   Integer Sums   Natural Products

Orders   Integer Numbers   Natural Sums   Operations

Converse Relations   Equivalence Relations   Natural Order   Functions   Recursion Theorem

Relations   Peano Axioms

Set Products   Natural Induction

Ordered Pairs   Set Powers   Natural Numbers

Unordered Triples   Successor Sets   Intersection of Empty Set   Partitions

Pair Unions   Set Intersections   Set Symmetric Differences

Set Unions   Set Complements   Pair Intersections

Unordered Pairs   Set Differences   Empty Set

Set Specification

Set Equality

Set Inclusion

Standardized Accounts

Accounts

Deductions

Quantified Statements

Logical Statements

Statements

Identities   Sets

Names

Letters   Objects

5