Approximate Real Optimizers

Why

Often we are satisfied with an approximate solution.

Definition

Notation

Approximate Real Optimizers

Least Upper Bounds

Real Order

Real Optimizers

Real Numbers

Optimizers

Rational Numbers

Total Orders

Integer Arithmetic

Partial Orders

Natural Multiplicative Identity

Natural Additive Identity

Arithmetic

Identity Elements

Integer Products

Natural Powers

Operations

Integer Sums

Natural Products

Functions

Integer Numbers

Natural Sums

Equivalence Relations

Recursion Theorem

Peano Axioms

Relations

Natural Induction

Cartesian Products

Natural Numbers

Set Powers

Partitions

Intersection of Empty Set

Successor Sets

Unordered Triples

Set Intersections

Pair Unions

Ordered Pairs

Set Differences

Set Unions

Pair Intersections

Empty Set

Unordered Pairs

Set Specification

Set Inclusion

Standardized Accounts

Accounts

Deductions

Quantified Statements

Logical Statements

Statements

Identities

Sets

Names

Letters

Objects