Why

What is the inverse of the exponential function? We denote the logarithm by $\log : \mathbf{R} \to \mathbf{R}$.

Logarithm

Exponential Function

Real Functions

Intervals

Real Line

Real Order

Rational Order

Real Numbers

Rational Numbers

Integral Line

Integer Arithmetic

Natural Fractions

Natural Additive Identity

Natural Multiplicative Identity

Integer Products

Natural Arithmetic

Identity Elements

Integer Order

Integer Sums

Natural Powers

Comparisons

Integer Numbers

Natural Products

Operations

Converse Relations

Orders

Equivalence Relations

Natural Sums

Functions

Relations

Natural Order

Recursion Theorem

Ordered Pair Projections

Peano Axioms

Set Products

Natural Induction

Ordered Pairs

Set Powers

Natural Numbers

Unordered Triples

Successor Sets

Intersection of Empty Set

Partitions

Pair Unions

Set Symmetric Differences

Set Intersections

Set Unions

Set Complements

Pair Intersections

Unordered Pairs

Set Differences

Empty Set

Set Specification

Geometry

Set Equality

Set Inclusion

Deductions

Quantified Statements

Logical Statements

Statements

Identities

Sets

Names

Letters

Objects