Definition

We denote the *volume measure* (or *n-dimensional space measure*, *space measure*, *Lebesgue measure*) on $\mathbf{R}^n$ by λ.[1]

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[1] Future editions will clean up and complete the development.

N-Dimensional Volume Measure

Volume Measure

N-Dimensional Space

Area Measure

Distance

Length Measure

Measures

Sigma Algebras

Extended Real Numbers

Real Series

Real Limits

Space Distance

Real Space

Absolute Value

Plane Distance

Interval Length

Intervals

Real Plane

Real Line

Integral Line

Real Sequences

Real Order

Geometry

Real Numbers

Rational Order

Sequences

Subset Algebras

Rational Numbers

Lists

Cardinality

Integer Arithmetic

Natural Fractions

Direct Products

Set Numbers

Natural Multiplicative Identity

Natural Additive Identity

Integer Products

Finite Sets

Identity Elements

Natural Arithmetic

Equivalent Sets

Operations

Natural Powers

Family Unions and Intersections

Integer Sums

Integer Order

Function Inverses

Comparisons

Natural Products

Integer Numbers

Families

Function Images

Function Composites

Orders

Natural Sums

Equivalence Relations

Functions

Natural Order

Converse Relations

Recursion Theorem

Relations

Peano Axioms

Ordered Pair Projections

Natural Induction

Set Products

Subset Systems

Generalized Set Dualities

Natural Numbers

Set Powers

Ordered Pairs

Set Symmetric Differences

Set Dualities

Set Unions and Intersections

Successor Sets

Intersection of Empty Set

Unordered Triples

Partitions

Set Complements

Pair Unions

Set Intersections

Set Differences

Pair Intersections

Set Unions

Empty Set

Unordered Pairs

Set Specification

Set Equality

Set Inclusion

Deductions

Quantified Statements

Logical Statements

Statements

Sets

Identities

Names

Letters

Objects