

Affine Transformations

Transformations

Vectors

Real Vectors

N-Dimensional Space

Plane Vector Sums and Differences

Space Vectors

Distance

Plane Vectors

Space Distance

Plane Distance

Interval Length

Intervals

Real Line

Real Plane

Integral Line

Real Order

Fields

Real Numbers

Rational Order

Geometry

Rings

Rational Numbers

Natural Fractions

Integer Arithmetic

Integer Products

Natural Multiplicative Identity

Natural Additive Identity

Identity Elements

Natural Arithmetic

Natural Powers

Integer Sums

Integer Order

Comparisons

Orders

Operations

Finite Sets

Function Inverses

Function Images

Family Unions and Intersections

Families

Function Composites

Functions

Natural Products

Natural Sums

Integer Numbers

Natural Order

Converse Relations

Equivalence Relations

Relations

Recursion Theorem

Peano Axioms

Natural Induction

Natural Numbers

Set Products

Set Powers

Generalized Set Dualities

Set Dualities

Partitions

Set Unions and Intersections

Set Symmetric Differences

Set Complements

Set Differences

Unordered Triples

Intersection of Empty Set

Pair Unions

Set Unions

Empty Set

Unordered Pairs

Set Specification

Set Equality

Set Inclusion

Deductions

Quantified Statements

Logical Statements

Statements

Identities

Sets

Names

Letters

Objects