Why

1

Definition

An *affine transformation* is one which maps an affine combination of two vectors to the affine combination of their results under the same transformation. These are sometimes called *affine functions*.

---

[1]Future editions will include.

Affine Transformations

Transformations

Vectors

Real Vectors

N-Dimensional Space

Distance

Space Distance

Plane Distance

Interval Length

Intervals

Real Space

Real Line

Real Plane

Real Order

Integral Line

Fields

Real Numbers

Rational Order

Geometry

Groups

Rational Numbers

Integer Additive Inverses

Integer Arithmetic

Lists

Inverse Elements

Natural Multiplicative Identity

Natural Additive Identity

Integer Products

Set Numbers

Direct Products

Element Functions

Identity Elements

Arithmetic

Finite Sets

Integer Sums

Algebras

Natural Powers

Equivalent Sets

Operations

Natural Products

Function Inverses

Integer Order

Comparisons

Family Unions and Intersections

Natural Sums

Function Composites

Function Images

Integer Numbers

Orders

Families

Recursion Theorem

Functions

Natural Order

Converse Relations

Equivalence Relations

Peano Axioms

Relations

Natural Induction

Set Products

Natural Numbers

Set Powers

Generalized Set Dualities

Successor Sets

Unordered Triples

Intersection of Empty Set

Partitions

Set Dualities

Set Unions and Intersections

Ordered Pairs

Pair Unions

Set Intersections

Set Complements

Pair Intersections

Set Unions

Set Differences

Unordered Pairs

Empty Set

Set Specification

Set Inclusion

Standardized Accounts

Accounts

Deductions

Quantified Statements

Logical Statements

Statements

Identities

Sets

Names

Letters

Objects