Why

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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.

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[1]Future editions will include.

Affine Transformations

Transformations

Vectors

N-Dimensional Space

Distance

Space Distance

Plane Distance

Interval Length

Intervals

Real Space Real Plane Real Line

Direct Products Real Order Geometry

Fields Real Numbers

Families Groups Rational Numbers

Integer Additive Inverses Integer Arithmetic

Inverse Elements Integer Sums Natural Additive Identity Natural Multiplicative Identity

Element Functions Identity Elements Arithmetic

Function Inverses Algebras Natural Exponents Integer Products

Function Images Function Composites Operations Natural Products

Functions Integer Numbers Natural Sums

Equivalence Relations Recursion Theorem

Relations Peano Axioms

Cartesian Products Natural Induction

Set Powers Natural Numbers

Partitions Intersection of Empty Set Unordered Triples Successor Sets

Ordered Pairs Set Intersections Pair Unions

Set Unions Set Differences

Unordered Pairs Empty Set Pair Intersections

Set Specification

Set Inclusion

Standardized Accounts

Accounts

Deductions

Quantified Statements

Logical Statements

Statements

Identities Sets

Names

Letters Objects