Definition

The *rank* of a matrix $A \in \mathbf{R}^{m \times n}$ is the dimension of the subspace spanned by its columns.[1]

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[1]Future editions will expand.

Real Matrix Rank

Real Subspaces

Real Vectors Span

Real Matrices

Real Linear Combinations

Linear Equations

Real Vector

Linear Function

Arrays

Plane Vector Sums and Differences

Space Vectors

N-Dimensional Space

Plane Vectors

Distance

Space Distance

Plane Distance

Interval Length

Intervals

Real Space

Real Plane

Real Line

Integral Line

Real Order

Real Summation

Geometry

Rational Order

Real Numbers

Natural Summation

Rational Numbers

Lists

Integer Arithmetic

Set Numbers

Direct Products

Integer Products

Natural Multiplicative Identity

Natural Additive Identity

Finite Sets

Arithmetic

Identity Elements

Equivalent Sets

Family Operations

Function Inverse

Family Unions and Intersections

Comparison

Natural Equations

Integer Order

Integer Sums

Natural Power

Natural Products

Operations

Function Composite

Function Image

Families

Orders

Equations

Integer Numbers

Functions

Converse Relations

Natural Order

Natural Sums

Equivalence Relations

Recursion Theorem

Relations

Peano Axioms

Ordered Pair Projections

Natural Induction

Set Products

Natural Numbers

Set Powers

Generalized Set Dualities

Set Symmetric Differences

Successor Sets

Unordered Triples

Set Dualities

Intersection of Empty Set

Partitions

Set Unions and Intersections

Set Complements

Ordered Pairs

Pair Unions

Set Intersections

Set Differences

Set Unions

Pair Intersections

Empty Set

Unordered Pairs

Set Specification

Set Equality

Set Inclusion

Deductions

Quantified Statements

Logical Statements

Statements

Sets

Identities

Names

Letters

Objects