Why

In the current edition, this sheet is a filler, providing LaTeXmacros.[1]

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[1]Future editions will likely remove, or modify this sheet.

Matrix Transpose

Matrices — Vectors as Matrices

Real Matrices — Real Inner Product

Linear Equations — Vectors — Real Norm

Linear Functions — Space Norm

Real Vector

N-Dimensional Space — Plane Vector Sums and Differences — Space Vector — Plane Inner Product — Plane Norm

Distance — Plane Vector — Right Triangle Sides Relation

Real Square — Space Distance — Absolute Value

Square Numbers — Real Arithmetic — Plane Distance

Squares — Real Multiplicative Inverses — Interval Length

Real Products — Real Space — Intervals

Real Additive Inverses — Real Plane — Real Line

Real Summation — Rational Multiplicative Inverses — Real Sums — Rational Arithmetic — Real Order — Integral Line

Fields — Real Numbers — Rational Sums — Rational Products — Rational Order — Geometry

Arrays — Rings — Rational Numbers

Lists — Integer Arithmetic

Set Number — Natural Additive Identity — Natural Multiplicative Identity — Integer Products

Direct Products — Finite Sets — Identity Elements — Arithmetic

Natural Summation — Inverse Elements — Equivalent Sets — Element Functions — Natural Powers — Integer Sums — Integer Order — Comparisons

Natural Equations — Family Operations — Function Inverses — Family Unions and Intersections — Natural Products — Integer Numbers — Orders

Equations — Families — Function Images — Function Composites — Operations — Natural Sums — Integer Sums

Functions — Natural Order — Recursion Theorem — Equivalence Relations — Converse Relations

Peano Axioms — Relations

Natural Induction — Set Products

Generalized Set Dualities — Natural Numbers — Set Powers

Set Unions and Intersections — Set Dualities — Set Symmetric Difference — Successor Sets — Intersection of Empty Set — Unordered Triples — Partitions

Set Complements — Pair Unions — Set Intersections — Ordered Pairs

Pair Intersections — Set Differences — Set Unions

Empty Set — Unordered Pairs

Set Specification

Set Equality

Set Inclusion

Standardized Accounts

Accounts

Deductions

Quantified Statements

Logical Statements

Statements

Identities — Sets

Names

Letters — Objects

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