Definition

A *monoid* is a group which need not have inverses. Every group is a monoid.

Monoids

Groups

Rings

Integer Arithmetic

Natural Additive Identity   Natural Multiplicative Identity

Identity Elements   Arithmetic

Natural Powers   Integer Products

Natural Products   Integer Sums

Operations   Natural Sums   Integer Numbers

Functions   Equivalence Relations   Recursion Theorem

Relations   Peano Axioms

Set Products   Natural Induction

Ordered Pairs   Set Powers   Natural Numbers

Partitions   Intersection of Empty Set   Unordered Triples   Successor Sets

Set Intersections   Pair Unions   Set Symmetric Differences

Pair Intersections   Set Unions   Set Complements

Unordered Pairs   Empty Set   Set Differences

Set Specification

Set Inclusion

Standardized Accounts

Accounts

Deductions

Quantified Statements

Logical Statements

Statements

Identities   Sets

Names

Letters   Objects

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