Definition

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

Monoids

Groups

Rings   Finite Sets

Integer Arithmetic

Natural Multiplicative Identity   Natural Additive Identity

Arithmetic   Identity Elements

Integer Products   Natural Powers   Equivalent Sets

Integer Sums   Natural Products   Function Inverses

Integer Numbers   Natural Sums   Operations   Function Composites   Function Images

Recursion Theorem   Natural Order   Equivalence Relations   Functions

Peano Axioms   Relations

Natural Induction   Set Products

Natural Numbers   Set Powers   Ordered Pairs

Successor Sets   Unordered Triples   Intersection of Empty Set   Partitions

Set Symmetric Differences   Pair Unions   Set Intersections

Set Complements   Set Unions   Pair Intersections

Set Differences   Empty Set   Unordered Pairs

Set Specification

Set Equality

Set Inclusion

Standardized Accounts

Accounts

Deductions

Quantified Statements

Logical Statements

Statements

Identities   Sets

Names

Letters   Objects