◈ Groups

1 Why

We generalize the algebraic structure of addition over the integers.

2 Definition

A *group* is an algebra with: (1) an associative operation, (2) an identity element, and (3) an inverse for each element. We call the operation of the algebra *group addition*. A *commutative group* is a group whose operation commutes.

2.1 Notation

TODO

Groups

Algebras   Inte

Operations

Functions

Relations

Ordered Pairs   Nat

Unordered Pairs   Empty Set   Set

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