Why

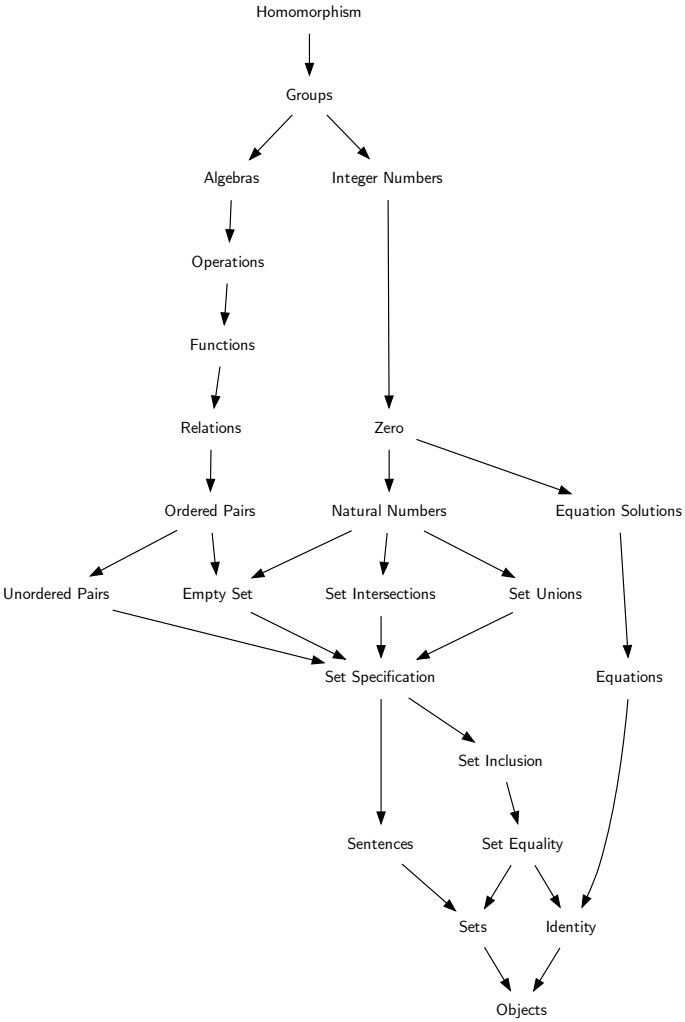
We name a function which preserves group structure.

Definition

A *homomorphism* from group $(A, +)$ to group $(B, \tilde{+})$ is a function $f : A \to B$ such that $f(e_A) = f(e_B)$ for identities $e_A \in A$ and $e_B \in B$ and $f(a + a') = f(a)\tilde{+}f(a')$ for all $a, a' \in A$.

Notation

$\boxed{TODO}$


Homomorphism
Groups
Algebras
Integer Numbers
Operations
Functions
Relations
Zero
Ordered Pairs
Natural Numbers
Equation Solutions
Unordered Pairs
Empty Set
Set Intersections
Set Unions
Set Specification
Equations
Set Inclusion
Sentences
Set Equality
Sets
Identity
Objects