

## Algebras

## 1 Why

We name a set together with an operation.

## 2 Definition

An *algebra* is an ordered pair whose first element is a non-empty set and whose second element is an operation on that set. The *ground set* of the algebra is the set on which the operation is defined.

## 2.1 Notation

Let A be a non-empty set and let  $+: A \times A \to A$  be an operation on A.

