



Why

Is the inverse of an element function the element function of a different element?

Definition

The *inverse* of an element of an algebra (also called the *inverse element*) is the element (if it exists) whose corresponding element function under the operation is the inverse of the first element's function.

Notation

Let $(A, +)$ be an algebra. Let $a \in A$. If the inverse element for a exists and is unique we denote it by a^{-1} . In other words

$$+^a(+^{a^{-1}}) = +^{a^{-1}}$$

