Why

What is the identity element of addition of the natural numbers.

Result

Proposition 1. *0 is the identity element of ω under $+$.*

Proof. By definition $0 + n = n$ (see Natural Sums). $\qquad\qquad\square$

Natural Additive Identity

Identity Elements　　Arithmetic

Natural Powers

Operations　　Natural Products

Functions　　Natural Sums

Recursion Theorem　　Relations

Peano Axioms　　Ordered Pair Projections

Natural Induction　　Set Products

Natural Numbers　　Set Powers　　Ordered Pairs

Intersection of Empty Set　　Successor Sets　　Unordered Triples

Set Intersections　　Set Symmetric Differences　　Pair Unions

Pair Intersections　　Set Complements　　Set Unions

Set Differences　　Empty Set　　Unordered Pairs

Set Specification

Set Equality

Set Inclusion

Deductions

Quantified Statements

Logical Statements

Statements

Identities　　Sets

Names

Letters　　Objects