



Why

We call name the operations which produce natural sums, products and powers.

Definition

Consider the set of natural numbers. The we can define three functions corresponding to sums, products and powers which are operations (see *Operations*) on this set.

We call *addition* the function $+: \omega \times \omega \rightarrow \omega$, which maps two natuaral numbers m and n to their sum $m + n$. We call *multiplication* the function $\cdot: \omega \times \omega \rightarrow \omega$, which maps two natuaral numbers m and n to their sum $m \cdot n$. We call *exponentiation* the function $(m, n) \mapsto m^n$.

