



planetmath.org

Math for the people, by the people.

multigrade operator

Canonical name	MultigradeOperator
Date of creation	2013-03-22 17:48:11
Last modified on	2013-03-22 17:48:11
Owner	Jon Awbrey (15246)
Last modified by	Jon Awbrey (15246)
Numerical id	4
Author	Jon Awbrey (15246)
Entry type	Definition
Classification	msc 03E20
Classification	msc 03C05
Classification	msc 08A40
Classification	msc 08A70
Related topic	ParametricOperator

A **multigrade operator**  $\Omega$  is a parametric operator with parameter  $k$  in the set  $\mathbb{N}$  of non-negative integers.

The application of a multigrade operator  $\Omega$  to a finite sequence of operands  $(x_1, \dots, x_k)$  is typically denoted with the parameter  $k$  left tacit, as the appropriate application is implicit in the number of operands listed. Thus  $\Omega(x_1, \dots, x_k)$  may be taken for  $\Omega_k(x_1, \dots, x_k)$ .