



planetmath.org

Math for the people, by the people.

order (of a graph)

Canonical name	OrderofAGraph
Date of creation	2013-03-22 12:31:23
Last modified on	2013-03-22 12:31:23
Owner	Mathprof (13753)
Last modified by	Mathprof (13753)
Numerical id	8
Author	Mathprof (13753)
Entry type	Definition
Classification	msc 05C99
Synonym	order
Related topic	Graph
Related topic	SizeOfAGraph
Related topic	MantelsTheorem

The *order* of a graph G is the number of vertices in G ; it is denoted by $|G|$. The same notation is used for the number of elements (cardinality) of a set. Thus, $|G| = |V(G)|$. We write G^n for an *arbitrary graph of order n* . Similarly, $G(n, m)$ denotes an *arbitrary graph of order n and size m* .

Adapted with permission of the author from by Béla Bollobás, published by Springer-Verlag New York, Inc., 1998.