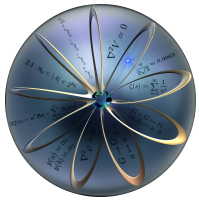

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point

Canonical name	Point
Date of creation	2013-03-22 16:06:30
Last modified on	2013-03-22 16:06:30
Owner	Wkbj79 (1863)
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Numerical id	16
Author	Wkbj79 (1863)
Entry type	Definition
Classification	msc 15-00
Classification	msc 54-00
Classification	msc 51-00

In *The* , Euclid defines a point as that which has no part.

In a vector space, an affine space, or, more generally, an incidence geometry, a *point* is a `http://planetmath.org/Zero`zero `http://planetmath.org/Dimension3`dimensio
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In a projective geometry, a *point* is a one-dimensional subspace of the vector space underlying the projective geometry.

In a topology, a *point* is an element of a topological space.

In function theory, a *point* usually means a complex number as an element of the complex plane.

Note that there is also the possibility for a point-free approach to geometry in which points are not assumed as a primitive. Instead, points are defined by suitable abstraction processes. (See point-free geometry.)