



Math for the people, by the people.

point-finite

Canonical name	Pointfinite
Date of creation	2013-03-22 16:17:02
Last modified on	2013-03-22 16:17:02
Owner	yark (2760)
Last modified by	yark (2760)
Numerical id	5
Author	yark (2760)
Entry type	Definition
Classification	msc 54A99
Synonym	point finite
Related topic	LocallyFinite
Related topic	Metacompact
Defines	point finite collection
Defines	point-finite collection
Defines	point finiteness
Defines	point-finiteness

A collection \mathcal{U} of subsets of a topological space X is said to be *point-finite* if every point of X lies in only finitely many members of \mathcal{U} .

Compare this to the stronger property of being locally finite.

Point-finiteness is used in the definition of metacompactness.