planetmath.org

Math for the people, by the people.

Kuratowski's lemma

Canonical name	KuratowskisLemma
Date of creation	2013-03-22 13:13:39
Last modified on	2013-03-22 13:13:39
Owner	Koro (127)
Last modified by	Koro (127)
Numerical id	6
Author	Koro (127)
Entry type	Theorem
Classification	msc 03E25
Related topic	AxiomOfChoice
Related topic	TukeysLemma
Related topic	ZermelosWellOrderingTheorem
Related topic	ZornsLemma
Related topic	ZermelosPostulate
Related topic	EveryVectorSpaceHasABasis

Any chain in an ordered set is contained in a maximal chain.
This proposition is equivalent to the axiom of choice.