

planetmath.org

Math for the people, by the people.

Tukey's lemma

Canonical name TukeysLemma

Date of creation 2013-03-22 13:13:34 Last modified on 2013-03-22 13:13:34

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 MaximalityPrinciple

Related topic ZornsLemma

Related topic ZermelosPostulate Related topic KuratowskisLemma Each nonempty family of finite character has a maximal element.

Here, by a maximal element we a maximal element with respect to the inclusion ordering: $A \leq B$ iff $A \subseteq B$. This lemma is equivalent to the axiom of choice.