

planetmath.org

Math for the people, by the people.

continuous proper map

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

Owner CWoo (3771) Last modified by CWoo (3771)

Numerical id 4

Author CWoo (3771) Entry type Definition Classification msc 54-00

Synonym continuous proper function

Synonym continuous proper

Let X,Y be topological spaces and $p\colon X\to Y$ a continuous map. The map p is called *continuous proper* if for every compact $K\subseteq Y$ the preimage $p^{-1}(K)$ is compact in X.