

planetmath.org

Math for the people, by the people.

contractible

Canonical name Contractible

Date of creation 2013-03-22 12:13:24 Last modified on 2013-03-22 12:13:24

Owner RevBobo (4) Last modified by RevBobo (4)

Numerical id 9

Author RevBobo (4) Entry type Definition Classification msc 55Q52

Related topic HomotopyOfMaps Related topic HomotopyEquivalence

 $Related\ topic \\ Homotopy With A Contractible Domain$

A topological space is said to be *contractible* if it is homotopy equivalent to a point. Equivalently, the space is contractible if a constant map is homotopic to the identity map. A contractible space has a trivial fundamental group.