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connected set in a topological space

Canonical name	ConnectedSetInATopologicalSpace
Date of creation	2013-03-22 13:59:51
Last modified on	2013-03-22 13:59:51
Owner	ack (3732)
Last modified by	ack (3732)
Numerical id	6
Author	ack (3732)
Entry type	Definition
Classification	msc 54D05

Let Y be a topological space and $X \subseteq Y$ be given the subspace topology. We say that X is connected iff we cannot find nonempty open sets $U, V \subseteq X$ such that $U \cap V = \emptyset$ and $U \cup V = X$.