

Topological space

[MTH301] A collection of a well defined object is called a _____
set

[MTH301] The metric defined by $d(x, y)$, if $x = y$ and $d(x, y)=1$ otherwise if is called

discrete metric

[MTH301] A non empty set equipped with a distance function is called _____
metric

[MTH301] In a metric space X , the expression given by $B(x, \alpha) = \{y \in X : d(x, y) \leq \alpha\}$
for $(x, y \in X)$ and $(\alpha > 0)$ is called _____ ball.
 α

[MTH301] The collection of subsets of X that is closed under arbitrary union and finite
intersection is called _____
topology

[MTH301] A non empty set together with a metric defined on it is called _____
etric space

[MTH301] A complete metric space is called a _____ Space
Banach

[MTH301] A collection of all subsets of a set X induced by a metric defined on X is
called _____ Topology
discrete

[MTH301] The d in a metric space (X, d) is called _____
distance

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