MTH301
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1. If A and B are two subsets of X, A is said to meet B if _____

--->> \(A\cap B\leq \phi\)

\(A\cap B= \phi\)

\(A\cup B\leq \phi\)

\(A\cup B= \phi\)

2. Let X be a topological space and\(A\subset X\) . The _____\(Cl(A)\) of A is the intersection of all the closed subsets of X that contain A n

interior

--->> closure

limit

exterior

3. A topological invariant is a way of assigning a mathematical object L(X) to every topological space X, such that if X and Y are _____ then L(X) and L(Y) are isomorphic.n

--->> homeomorphic

holomorphic

interior

relative

4. A topological invariant is a way of assigning a mathematical object L(X) to every topological space X, such that if X and Y are _____ then \(L(X)\) and \(L(Y)\) are isomorphic.n

--->> homeomorphic

holomorphic

interior

relative

point x in X such that every neighbourhood of x contains some points of A different from x.n

interior

--->> boundary

limit

exterior

6. A set is open if it contains all its _____ points.

--->> interior

boundary

limit

exterior

7. A set is closed if it contains all its _____ points

interior

boundary

--->> limit

exterior

8. If A and B are two subsets of X, A is said to meet B if _____

--->> \(A\cap B\neq \phi\)

\(A\cap B = \phi\)

\(A\cup B\neq \phi\)

\(A\caup B= \phi\)

9. Let X be a topological space and A, a subset of X. The _____ topology \(Ã□â€ž_{A}\) on A if n for some \(\tau_{A}={U\subseteq A: U=W\) for some \(W\in \tau\)n

usual

relation

subset

10. Let X be a topological space and \(A\subseteq\) . The _____ \(Cl(A)\) of A is the intersection of all the closed subsets of X that contain A

interior

--->> closure

limit

exterior