



2. a) Show that the collection

$S = \{\pi_1^{-1}(U) \mid U \text{ open in } X\} \cup \{\pi_2^{-1}(V) \mid V \text{ open in } Y\}$ is a subbasis for the product topology on $X \times Y$.

5

b) If A is a subspace of X and B is a subspace of Y then show that the product topology on $A \times B$ is the same as the topology on $A \times B$ inherits as a subspace of $X \times Y$.

6

c) Let X be a topological space let $A \subseteq X$ if $\tau_A = \{U \subseteq A \mid U = V \cap A, \text{ for some } V \text{ open in } X\}$ then show that τ_A is a topology on A .

5

3. a) Let Y be a subspace of X : Let $A \subseteq Y$, let $\bar{A}$ denote the closure of A in X . then show that closure of A in Y equals $\bar{A} \cap Y$.

4

b) Show that every order topology is Hausdorff.

4

c) Show that $\text{Int } A$ and $\text{Bd } A$ are disjoint and $\bar{A} = \text{Int } A \cup \text{Bd } A$.

4

d) State and prove the pasting lemma.

4

4. a) Show that $[0, 1]$ & $[a, b]$ are homeomorphic.

6

b) Let $f : A \rightarrow X \times Y$ be given by the equation $f(a) = (f_1(a), f_2(a))$. Then show that f is continuous iff the functions $f_1 : A \rightarrow X$ and $f_2 : A \rightarrow Y$ are continuous.

5

c) Let $f : A \rightarrow \prod_{\alpha \in J} X_\alpha$ be given by the equation $f(a) = (f_\alpha(a))_{\alpha \in J}$, where $f_\alpha : A \rightarrow X_\alpha$ for each α . Let $\prod X_\alpha$ have the product topology. Then show that the function f is continuous iff each function f_α is continuous.

5

Question Paper And Solution On Topology Mathematics

Rachel Sandford



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