



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

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Roderick S C Wong, Felipe Cucker



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Mathematical Physics and Its Interactions Shuji Machihara, 2024-07-03 This publication comprises research papers contributed by the speakers primarily based on their planned talks at the meeting titled Mathematical Physics and Its Interactions initially scheduled for the summer of 2021 in Tokyo Japan It celebrates Tohru Ozawa's 60th birthday and his extensive contributions in many fields The works gathered in this volume explore interactions between mathematical physics various types of partial differential equations PDEs harmonic analysis and applied mathematics They are authored by research leaders in these fields and this selection honors the spirit of the workshop by showcasing cutting edge results and providing a forward looking perspective through discussions of problems with the goal of shaping future research directions Originally planned as an in person gathering this conference had to change its format due to limitations imposed by COVID more precisely to avoid inducing people into unnecessary vaccinations

Wolf Prize in Mathematics Shiing-Shen Chern, Friedrich Hirzebruch, 2000

Technical Abstract Bulletin, 1964

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