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Section 26: Compact Spaces A compact space is a space such that every open covering of contains a finite covering of. If a space is compact in a finer topology then it is compact in a coarser one. If a space is compact in a finer topology and Hausdorff in a coarser one then the topologies are the same.

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Section 26: Problem 1 Solution Working problems is a crucial part of learning mathematics. No one can learn topology merely by poring over the definitions, theorems, and examples that are worked out in the text. One must work part of it out for oneself.

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Ex. 26.6. Since any closed subset A of the compact space X is compact [Thm 26.2], the image $f(A)$ is a compact [Thm 26.5], hence closed [Thm 26.3], subspace of the Hausdorff space Y . Ex. 26.7. This is just reformulation of The tube lemma [Lemma 26.8]: Let C be a closed subset of $X \times Y$ and $x \in X$ a point such that the slice $\{x\} \times Y$ is ...

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Section 26: Problem 2 Solution Working problems is a crucial part of learning mathematics. No one can learn topology merely by poring over the definitions, theorems, and examples that are worked out in the text. One must work part of it out for oneself.

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26. Compact Sets 3 Fréchet (1878–1973) first used the term “compact” in a paper in 1904 and later used it in his 1906 dissertation. Fréchet used the definition mentioned by Munkres above [Wikipedia]. The Russian school of point-set topology, lead by Pavel Alexandrov (1896–1982)

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Section 26. Compact Sets

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Munkres - Topology - Chapter 3 Solutions Section 24 Problem 24.3. Solution: Define $g: X \rightarrow \mathbb{R}$ where $g(x) = f(x)$ if $R(x) = f(x)$ and $g(x) = 0$ where $i \in \mathbb{R}$ is the identity function. Since f and $i \in \mathbb{R}$ are continuous, g is continuous by Theorems 18.2(e) and 21.5. Since X is connected for all three possibilities given in this