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c is a topology on X. This topology is called the countable complement topology. Lemma 3. The compact subspaces of X are exactly the ?nite subspaces. Proof. Suppose A is in?nite. Let B = {b 1,b 2,...} be a countable subset of A. Set A n = (X ?B)?{b 1,...,b n}. Note that {A n} is an open covering of A with no ?nite subcovering.

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