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Munkres - Topology - Chapter 2 Solutions 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

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1(C) then there is a neighborhood W of x which is disjoint from π 1(C). Thus The tube lemma says that π 1: X ×Y → X is closed when Y is compact (so that π 1 is an example of a perfect map [Ex 26.12]). On the other hand, projection maps are always open [Ex 16.4]. Ex. 26.8.