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

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Munkres § 26 Ex. 26.1 (Morten Poulsen). (a). Let  $T$  and  $T_0$  be two topologies on the set  $X$ . Suppose  $T_0 \subset T$ . If  $(X, T_0)$  is compact then  $(X, T)$  is compact: Clear, since every open covering of  $(X, T)$  is an open covering in  $(X, T_0)$ . If  $(X, T)$  is compact then  $(X, T_0)$  is in general not compact: Consider  $[0, 1]$  in the standard topology and the discrete topology. (b).

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