

### Munkres Topology Solutions Chapter 3

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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 finite subspaces. Proof. Suppose  $A$  is infinite. Let  $B = \{b_1, b_2, \dots\}$  be a countable subset of  $A$ . Set  $A_n = (X \setminus B) \cup \{b_1, \dots, b_n\}$ . Note that  $\{A_n\}$  is an open covering of  $A$  with no finite subcovering.

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1st December 2004. Munkres §35. Ex. 35.3. Let  $X$  be a metrizable topological space. (i)  $\Rightarrow$  (ii): (We prove the contrapositive.) Let  $d$  be any metric on  $X$  and  $f: X \rightarrow \mathbb{R}$  be an unbounded real-valued function on  $X$ . Then  $d(x,y) = d(x,y) + |f(x) - f(y)|$  is an unbounded metric on  $X$  that induces the same topology as  $d$  since  $B_d \subseteq B_{d'} \subseteq B_d$ .

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