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topological spaces and continuous functions 2 13 basis for a
topology exercise 2 13 1 let X be a topological space and \mathcal{A} a collection of subsets of X
suppose that for each $A \in \mathcal{A}$ there is an open set U containing A
such that $U \in \mathcal{A}$ show that $\bigcup \mathcal{A}$ is open in X solution munkres solution
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supplementary exercises 1 topological groups problem 3 problem
4 problem 5 chapter 22 quotient maps and quotient topology
problem 6 let $\{x_n\}$ be a sequence over \mathbb{R} in the box topology where
 $x_n = (1/n, 1/n, 1/n, \dots)$ for all $n \in \mathbb{N}$ obviously each x_n converges to 0
let U be the neighborhood $(1/n, 1/n, 1/n, \dots)$ which is a neighborhood
of 0 suppose that there is a $k \in \mathbb{N}$ such that if $n > k$ then $x_n \in U$ now
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topology and geometry splits naturally into two parts 1 topics from
point set also known as general topology 2 fundamental groups
and covering spaces only part of this subject is covered in the rst
course and the remainder is covered in the second course exercise
23 8 first we show that \mathbb{R}^1 is not connected in the uniform topology
let $I = [0, 1]$ and denote the subsets of I consisting of all bounded and all
unbounded sequences respectively then \mathcal{U} and \mathcal{U}^c form a separation of I
the set $\mathcal{U} \cap \mathcal{U}^c = \emptyset$ contains the ball $\hat{B}_1(0)$ we conclude that
the topology generated by the subbasis \mathcal{U} is the unique smallest
topology on \mathbb{R}^1 containing all the collections \mathcal{U} now we prove that
there exists a unique largest topology contained in all
 \mathcal{U} uniqueness of such topology is clear consider $\tilde{\mathcal{U}} = \bigcap \mathcal{U}$ we already
know that $\tilde{\mathcal{U}}$ is a topology by a and 2 solutions by does anyone know

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topological spaces and continuous functions 2 13 basis for a

topology exercise 2 13 1 let X be a topological space and $A \subseteq X$

suppose that for each $x \in A$ there is an open set U_x containing x

such that $U_x \cap A = \{x\}$ show that A is open in X solution

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let (x_n) be a sequence over \mathbb{R} in the box topology where $x_n = (1/n, 1/n)$

$(1/n, 1/n)$ for all $n \in \mathbb{N}$ obviously each x_n converges to 0 let U be the

neighborhood $(-1, 1) \times (-1, 1) \times (-1, 1) \times \dots$ which is a neighborhood of 0 suppose

that there is a $k \in \mathbb{N}$ such that if $n > k$ then $x_n \in U$

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we need to show that $d_k(x, x) = r$ defined as $d_k(x, y) = kd(x, y)$ satisfies

the 4 conditions for metric spaces observe that for any $x, y \in X$

since $k > 0$ and $d(x, x) = r$ is a metric it follows that $d_k(x, y) = kd(x, y) > 0$

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introduce a topology on \mathbb{R} by declaring that open sets are \mathbb{R} and all

sets that can be represented as unions of infinite arithmetic

progressions check that this is indeed a topological space and

prove that any finite set is closed is it true that any closed set is

finite problem 3 let (X, d) be a metric space

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