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Distributive laws: $x \in A \cap (B \cup C) \iff x \in A \text{ and } (x \in B \text{ or } x \in C)$
 $\iff (x \in A \text{ and } x \in B) \text{ or } (x \in A \text{ and } x \in C) \iff x \in (A \cap B) \cup (A \cap C)$.

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1. Show that every well-ordered set has the least upper bound property. Suppose that is bounded below and nonempty. Since is well-ordered, then there exist a minimal element of.

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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 $T_0 \supseteq T$. 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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1.1 Fundamental Concepts 1.2 Functions 1.3 Relations 1.4 The Integers And The Real Numbers 1.5 Cartesian Products 1.6 Finite Sets 1.7 Countable And Uncountable Sets 1.8 The Principle Of Recursive Definition 1.9 Infinite Sets And The Axiom Of Choice 1.10 Well-ordered Sets 1.11 The Maximum Principle 1.SE Supplementary Exercises: Well-ordering.

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$(\setminus \text{Leftrightarrow}) \setminus (x \in (A \cap B) \cup (A \cap C))$.

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Links to solutions - MAT4500 - Autumn 2011 - Universitetet ...

Munkres: Chapter 1, Section 7. July 9, 2013 · by jesterpo · in Topology Exercises · 1 Comment. Section 7: Countable and Uncountable Sets. 1. Show that is countably infinite. Example 3, from Munkres, established that is countable. Note that is countably infinite. This follows from Theorem 7.6 (finite products of countable sets are countable).

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Relations; The Integers and the Real Numbers; Cartesian Products; Finite Sets; Countable and Uncountable Sets; The Principle of Recursive Definition

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Munkres - Topology - Chapter 2 Solutions Section 13 Problem 13.1. Let X be a topological space; let A be a subset of X . Suppose that for each $x \in A$ there is an open set U containing x such that $U \cap A$. Show that A is open in X . Solution: Let $\mathcal{C} = \{U \cap A \mid U \text{ open in } X, x \in U \text{ for some } x \in A\}$. Suppose $U = \bigcup_{\alpha} U_{\alpha} \cap A$. Since X is a topological space ...

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Solution: Given $x, y \in X$ $[0; 1)$ where $x < y$, we have $x = x_0 + x_1$ and $y = y_0 + y_1$. Since $[0; 1)$ is a linear continuum, if $x_0 < y_0$, let $z = x_0 + y_1$; if $x_0 = y_0$, let $z = x_0 + y_1$. Hence if $z = x_0 + z_1$, then $x < z < y$. Now let U be a non-empty subset of X $[0; 1)$ that is bounded above. Define $M = \{m \in X \mid m \text{ is an upper bound of } A\}$, which is the set of all upper bounds of A .