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Introduction to Sets There are four suits in a standard deck of playing cards: hearts, diamonds, clubs and spades.  $C$  is the set of

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whole numbers less than 10 and greater than or equal to 0. Set D is the even whole numbers less than 10, and set E is the odd whole numbers less than 10. Set G is the set of all oceans on earth. Set E is a set of some rivers, and set F is a list of

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tea and coffee. Kunen

Sets Theory - Exercise Questions And Answers & Set Practice

Set Theory Exercise 1 . 1 Is each of the following a well-defined set? Give brief reasons for each of your answers. (a) The collection of all alphanumeric characters.

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(b) The collection of all tall people. (c) The collection of all real numbers  $x$  for which:  $2x - 9 = 16$ . (d) The collection of all integers  $x$  for which:  $2x - 9 = 16$ .

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Set Theory Problems: Solutions 1. True.

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Suppose  $(a;c) \subseteq A \times C$ . Then  $a \in A$  and, since  $A \subseteq B$ , we have that  $a \in B$ . Similarly,  $c \in C$  and  $C \subseteq D$  implies  $c \in D$ . Therefore,  $(a;c) \subseteq B \times D$ . We may conclude that  $A \times C \subseteq B \times D$ .

2. True. There are many such bijections; the following is just one example. Define the function  $f : (0;1) \rightarrow \mathbb{R}$  by  $f(x) = \tan(\frac{\pi}{2}(x - \frac{1}{2}))$ .

3. True. Suppose not.



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MATH 574, Practice Problems Set Theory  
Problems

Solution. Figure 1.16 pictorially verifies the given identities. Note that in the second identity, we show the number of elements in each set by the corresponding shaded area.

Fig.1.16 - Venn diagrams for some

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identities. Kenneth Kunen

Solved Problems for Set Theory Review

Directions: Read each question below. You may draw a Venn diagram to help you find the answer. Select your answer by clicking on its button. Feedback to your answer is provided in the RESULTS BOX. If you

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make a mistake, rethink your answer, then choose a different button. 1. Which of the following is sets is shown with roster notation?  $\{ q \mid -4 \leq q \leq 4 \}$

Practice Exercises on Sets | Math Goodies  
No exercises. 1.3 The Axioms | Exercise 1 (1.3.1). Show that the set of all  $x$  such that

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$x \in A$  and  $x \in B$  exists. Proof. Notice that  $x \in W \cap A$  and  $x \in B \iff x \in A \cap W \cap B$ : Then by the Axiom Schema of Comprehension, we know that such a set does exist. t | Exercise 2 (1.3.2). Replace The Axiom of Existence by the following weaker postulate: Weak Axiom of Existence ...

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## Introduction to Set Theory

Set Theory \A set is a Many that allows itself to be thought of as a One." (Georg Cantor)

In the previous chapters, we have often encountered "sets", for example, prime numbers form a set, domains in predicate logic form sets as well. Defining a set formally is a pretty delicate matter, for now, we will

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be happy to consider an intuitive de ...

## Chapter 4 Set Theory

4 CS 441 Discrete mathematics for CS M.

Hauskrecht Equality Definition: Two sets are equal if and only if they have the same elements. Example: •  $\{1,2,3\} = \{3,1,2\} = \{1,2,1,3,2\}$  Note: Duplicates don't

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contribute anything new to a set, so remove them. The order of the elements in a set doesn't contribute

Sets and set operations

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Let  $W$  be the set of windy days,  $R$  be the set of rainy days. Let  $E$  be the set of days in June. Then  $W$  and  $R$  together have size 25, so the overlap between  $W$  and  $R$  is 10.; The Venn diagram opposite displays the whole situation. The purpose of

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this module is to introduce language for talking about sets, and some

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exercise questions at the end of each section.  
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A book of set theory / Charles C Pinter. p. cm. “ A revised and corrected republication of Set Theory, originally published in 1971 by Addison-Wesley Publishing Company, Reading, Massachusetts. ” Summary:

“ This accessible approach to set theory for upper-level undergraduates poses rigorous but simple arguments. Each

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A Book of Set Theory - UIS

1 Elementary Set Theory Notation:

$\{1, 2, 3\} = \{3, 2, 2, 1, 3\}$  because a set is not defined by order or multiplicity.

$\{0, 2, 4, \dots\} = \{x \mid x \text{ is an even natural number}\}$  because two ways of writing a set

are equivalent.  $\emptyset$  is the empty set.  $x \in A$  denotes

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is an element of A.

## 1 Elementary Set Theory - Penn Math

Example: Given the set  $P$  is the set of even numbers between 15 and 25. Draw and label a Venn diagram to represent the set  $P$  and indicate all the elements of set  $P$  in the Venn diagram.. Solution: List out the elements of

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$P = \{16, 18, 20, 22, 24\}$  ' between ' does not include 15 and 25 Draw a circle or oval. Label it P. Put the elements in P..

Example:

Venn Diagrams And Subsets (video lessons, examples and ...

, called the empty set and containing no



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element. The set that contains a sole element will be noted with  $\{ \}$ . More generally, the set that doesn't contain other elements except the elements  $1, 2, \dots$ , will be noted by  $\{ 1, 2, \dots, \}$ . If  $A$  is a set, and all of its elements have the quality  $P$ , then we

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