

Chapter 5, Set Theory

Set definitions

Definition of a set:

name of set = {list of elements, or a description of the elements}

Examples: $A = \{1,2,3\}$ or $B = \{x \in \mathbb{Z} \mid -4 < x < 4\}$ or
 $C = \{x \in \mathbb{Z}^+ \mid -4 < x < 4\}$

A set is completely defined by its elements, i.e.,

$$\{a,b\} = \{b,a\} = \{a,b,a\} = \{a,a,a,b,b,b\}$$

Discrete Structures
CMSC 250
Lecture 28

April 7, 2008