

# Discrete Mathematical Structures

## CS 3233 Lecture Thirteen

Prof. William Winsborough

September 19, 2005

# Assignment 4

- Due Thursday, September 29, 1:30 pm
  - Hand in to TA by meeting him in the lab where he has office hours between 12:30 and 1:30
  - If that is not convenient, put it in Humayun's mailbox (opposite Professor Bylander's office) in a **sealed envelope**.
- Section 1.8
  - 6a, 6b, 8, 10, 12, 14, 16, 20, 26, 32, 48, 62
- Section 3.2
  - 36, 38

# Exactly One, Two

- Construct a formula that is true just in case  $p(x)$  holds for exactly one value of  $x$  in the universe of discourse
- Do same for two values holding

# Open Season

- What problems on Assignment 2 gave you grief?

# Algorithms

- Begin reading chapter 2
- Definition
  - An *algorithm* is a finite collection of precise instructions for performing a computation or solving a problem

# Examples

- Finding maximum value in an input sequence of integers
- Determining whether a particular value is contained in an input sequence of integers