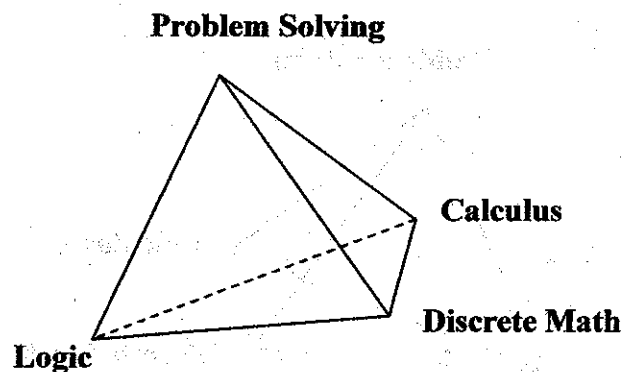


MATH 506 Mathematical Reasoning

Organizing Model



Key Concepts – Day 1

Problem Solving Examples – “Shapes to Handshakes”

Mathematical Representations

Diagrams

Graphs

Tables

Rules (verbal, algebraic)

Functional Representations

Recursive, Difference Equations

Explicit

Inductive Reasoning

Deductive Reasoning

Difference Tables (*first, second, third, ... differences*)

Using a Spreadsheet

Sample Exercises:

“Counting Squares”

“Square Areas”