

Predicate Logic and Quantifies

Sections 1.3 and 1.4 of Rosen

Fall 2008

CSCE 235 Introduction to Discrete Structures

Course web-page: cse.unl.edu/~cse235

Questions: cse235@cse.unl.edu

LaTeX

- Using the package: `\usepackage{amssymb}`
 - Set of natural numbers: \mathbb{N}
 - Set of integer numbers: \mathbb{Z}
 - Set of rational numbers: \mathbb{Q}
 - Set of real numbers: \mathbb{R}
 - Set of complex numbers: \mathbb{C}

Outline

- Introduction
- Terminology:
 - Propositional functions; arguments; arity; universe of discourse
- Quantifiers
 - Definition; using, mixing, negating them
- Logic Programming (Prolog)
- Transcribing English to Logic
- More exercises