Math 216 Topics Outline for Exam #1

Text Chapters – Chapters 2.1-2.3, 3.1-3.4, and Section 4.1, 4.2

Most of the exam will be from Chapter 2 & 3 Topics with one proof from Section 4.1 or 4.2.

Plan on a three page exam – both the questions and the response area should be about three pages in total.

From Chapters 2 & 3 (Topics in Logic):
- Logical Equivalence (Theorem 2.1.1 will be given in the exam.)
- Negating Statement Forms (and's, or's, conditional's)
- Contrapositive, Converse and Inverse of a conditional/universal condition statement
- Valid and Invalid Arguments and Argument Forms (Valid argument forms will not be given.)
- Both symbolic forms and written language forms
- Quantified (multiple) Statements and Negations
- Valid and Invalid Arguments with Quantifiers

From Chapter 4 (Intro to Proofs):
- Proof involving even/odd, rational/irrational numbers