

MATH 1300-D WEEK 3

SECTIONS 3.1–2; PAGES 85–103

SECTION 3.1

Reading. Make sure that you understand what is behind the following words:

- (1) Simple statement, compound statement.
- (2) Negation.
- (3) Conjunction (and), disjunction (or).
- (4) Conditional, biconditional.
- (5) Universal quantifier, existential quantifier
- (6) Negation of quantifiers.

Self-assessment. To verify that you have understood the material, solve the following problems at the end of the section: 1–10, 22–23, and 30.

Now take Quiz 3; you need to score 75% on this quiz before you can start working Homework 3, which is due on Thursday 4 February.

SECTION 3.2

Reading. Make sure that you understand:

- (1) The negation of a statement including the truth table of $\sim p$.
- (2) The truth tables of the compound statements “ p and q ” and “ p or q ”.
- (3) De Morgan’s laws for negation of conjunctions (“and” statements) and disjunctions (“or” statements).
- (4) Logical equivalence of statements.

Self-assessment. To verify that you have understood the material, solve the following problems at the end of the section: 1–12, 22, and 32.

Now take Quiz 4; you need to score 75% on this quiz before you can start working Homework 4, which is due on Monday 8 February.

Written Homework A is also due on Monday 1 February; see the announcement in MyMathLab.