MATH 1300-D WEEK 4

SECTIONS 3.3–5; PAGES 106–128

SECTION 3.3

Reading. Make sure that you understand:
(1) The truth tables of the compound statements

$$\text{“if } p \text{ then } q\text{”} \quad \text{and} \quad \text{“} p \text{ if and only if } q\text{”}.$$

(2) The converse, the inverse, and the contrapositive of a conditional statement.
(3) The distinction between necessary and sufficient conditions.

Assessment. To verify that you have understood the material, solve the following problems at the end of the section: 14, 18, 22, and 46.

Now take Quiz 5; you need to score 75% on this quiz before you can start working Homework 5, which is due on Thursday 11 February.

SECTION 3.4

Reading. Make sure that you understand what is behind the words:
(1) Premise and conclusion.
(2) Fallacy of the converse
(3) Fallacy of the inverse.

Assessment. To verify that you have understood the material, solve the following problems at the end of the section: 1–4, 15–16, 30, and 31.

SECTION 3.5

Reading. Make sure that you understand what is behind the words:
(1) Syllogism.
(2) Counterexample to syllogism.
(3) Euler diagram.

Assessment. To verify that you have understood the material, solve the following problems at the end of the section: 3–8, 21, and 24.

Now take Quiz 6; you need to score 75% on this quiz before you can start working Homework 6, which is due on Monday 15 February.

Written Homework C is also due on Monday 15 February; see the announcement in MyMathLab.