MATH 3200 Quiz 1 Study Guide

Refer to Taylor Chapter 1 for the relevant definitions/descriptions. We can also discuss any questions before or during class, before the day of the quiz.

1. Define *statement*.

2. State DeMorgan's laws for statements A and B.

3. State the Commutative Property for statements A and B.

4. State the Associative Property for statements A, B, and C.

5. State the Distributive Property for statements A, B, and C.

6. In "if A, then B," identify:

   (a) the *hypothesis*

   (b) the *conclusion*

7. Construct the truth table for $A \implies B$.

8. Determine the *converse* of $A \implies B$.

9. Determine the *contrapositive* of $A \implies B$.

10. What does the use of the universal quantifier signify?

11. What does the use of the existential quantifier signify?