Math 2602

Finite and Linear Math

Fall '14

Worksheet 1

- 1. Find the atomic statements in each of the following compound statements. Decide whether the statements are true or false. If they are false, give a counter example. If they are true, try to decide why.
 - (a) The derivative of the product is the product of the derivatives.
 - (b) Every number is either zero or positive.
 - (c) If we are in Atlanta, then we are in Georgia.
 - (d) If we are in Miami, then we are in Atlanta.
 - (e) The product of an even number with any other number is even, but the sum of an even number with any other number is odd.

- **2.** Find the negation of the statements from Problem #1.
- **3.** Write some atomic statements, then form statements of the form $p \wedge q$, $p \vee q$, and $p \rightarrow q$. Then find the negation of these statements.