Math 234 Preview Exercises

Sections 2.2 and 2.3

NAME

Read Sections 2.2 and 2.3 in the textbook and answer the following questions. *Hand in this worksheet at the next class.*

1. What is the *biconditional* of statements p and q? How is the biconditional denoted?

2. How is a *necessary* condition different from a *sufficient* condition?

3. What does it mean that an argument is *valid*?

4. Which rules of inference are exibited by the following argument forms?

   (a) $p \land q$
      $\therefore q$

   (b) $p \rightarrow q$
      $q \rightarrow r$
      $\therefore p \rightarrow r$

5. What is the *contradiction rule*?