Quiz 1 Solutions

Quiz 1 was given in class on Monday, January 22, 2007.

1. [2 pts] What is a “counterexample”?

A *counterexample* is an example showing that a proposed general theorem is false, by showing that it is not true in at least one case.

2. [3 pts] Consider the statement “If today is Tuesday, then it is raining.”
   2a. [1.5 pts] Write the *contrapositive* of this statement.

   If it is not raining, then today is not Tuesday.

   2b. [1.5 pts] Write the *converse* of this statement.

   If it is raining, then today is Tuesday.