Quiz 0

The quizzes are designed to be 20 minutes. Answer all the questions and be sure to justify your answer on all quizzes even if this note is not explicitly stated. Solutions that have no justification may receive deductions in points. Incorrect answers with some good justification may receive partial credit.

1. Define *statement*.   (3 pts.)

2. Write down the negation of the following statements. Do not write "It is not the case that...".
                                                                                   (5 pts. each)

   (a) My wife works and she was not late today.

   (b) If my wife is late today, then she will be fired.

3. Find an assignment of true or false to each of the atomic statements p, q, r that makes the compound statement false,
$$(p \to q) \wedge r$$
   .   (3 pts.)

4. Give an example of an IF-THEN statement, in English, which is false today.   (4 pts.)