Quiz 1: Section 1.1

1. (6 points) Let s be the following statement.

If it is raining, then the ground is wet.

- (a) Find the converse of s.
- (b) Find the contrapositive of s.

- **2.** (4 points) Mathematicians say that "statement P is stronger than statement Q" if Q is true whenever P is true, but not conversely. (In other words, "P is stronger than Q" means that $P \to Q$ is always true, but $Q \to P$ is not true, in general.) Which statement is stronger?
 - Manchester City is the best football team in England.
 - Manchester City is the best football team in Europe.

Explain.