

Math 2283 - Introduction to Logic

Quiz #6 - 2012.09.05

Solutions

1. If we start with the conditional statement $p \rightarrow q$, write the converse, contrapositive and inverse statement to the conditional. Be sure to label each correctly.

The converse is $q \rightarrow p$, the contrapositive is $\sim q \rightarrow \sim p$, and the inverse is $\sim p \rightarrow \sim q$.

2. What is the *rule of detachment*?

The rule of detachment states that if we know p is true, and $p \rightarrow q$ is true, then we get also that q must be true.