

# Math 2283 - Introduction to Logic

Quiz #4 - 2008.09.17

Solutions

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Consider the following conditional statement and use it to answer all of the questions below:

If Danny or Justin get back in the studio, then Maynard and Adam will too.

1. What is the antecedent of this conditional statement?

The antecedent is “Danny or Justin get back in the studio”.

2. What is the consequent of this conditional statement?

The consequent is “Maynard and Adam will too” or in a more complete sentence, “Maynard and Adam will get back in the studio.”

3. Write the converse to the statement.

If Maynard and Adam get back in the studio, then Danny or Justin will too.

4. Write the inverse to the statement.

If it is not the case that: Danny or Justin get back in the studio, then it is not the case that: Maynard and Adam will too.

We could also write this as:

If both Danny and Justin do not get back into the studio, then Maynard won't or Adam won't as well.

5. Write the contrapositive to the statement.

If Maynard won't or Justin won't get back into the studio, then both Danny and Justin will not either.