

Writing Conditional Statements

Lesson Objective INBAT identify the hypothesis and conclusion of a conditional statement;

Conditional Statement: A conditional statement is a logical statement that has two parts, a hypothesis and a conclusion.

→ When a conditional statement is written, it is written in "if-then" form.

- The "if" part contains the hypothesis
- The "then" part contains the conclusion

Example: Use one color to highlight the hypothesis, and another color to highlight the conclusion. Then, write the statement in "If-Then" form, if it isn't already given in that form.

1. If you are in New York City, then you are in the United States.

2. You are in Texas if you are in Houston.

If you are in Houston, then you are in Texas.

3. All 30° angles are acute angles.

If an angle measures 30°, then it is acute.

Negation: The negation of a statement is the _____ of the original statement.

→ To write the negation of statement p , you write the negation (_____) before the letter

Words:

Example: Write the negation of

4. The ball is red.

black.

Related Conditionals

Consider the conditional statement

Words: If p , then q .

Converse: To write the c _____ the _____ and _____

Words:

Symbols:

Inverse: To write the inverse of a conditional statement, _____ the _____ and _____

Words:

Symbols:

Will finish
notes
tomorrow!