

2.1

CONDITIONAL STATEMENTS

Conditional Statement

A _____ statement written in “_____” form.

If it is raining, then there are clouds in the sky.

A diagram showing the structure of a conditional statement. Two red curly brackets are positioned below the text. The first bracket is under the phrase "If it is raining," and the second bracket is under the phrase "then there are clouds in the sky." This visualizes the two parts of a conditional statement: the hypothesis and the conclusion.

Writing Conditionals

a) All birds have feathers

b) A linear pair are supplementary angles

Different Kinds of Conditionals

If an angle measures 99 degrees, then it is obtuse.

CONVERSE

Switch the “_____”.

WARNING

THESE ARE NOT
ALWAYS TRUE

INVERSE

The _____ of the hypothesis and conclusion
in the original statement.

Different Kinds of Conditionals

If an angle measures 99 degrees, then it is obtuse.

WARNING
THESE ARE NOT
ALWAYS TRUE

CONTRAPOSITIVE

The _____ of the hypothesis and conclusion
in the _____.

...Using Symbols

Original

CONVERSE

INVERSE

CONTRAPOSITIVE

Practice

If a polygon is regular, then it is equilateral.

CONVERSE

INVERSE

CONTRAPOSITIVE

Biconditionals revisited

If it is a _____, then it is a polygon with _____

If it is a polygon _____, then it is a _____