The Negation of a Statement

Name _____

Date _____ Period _____

The Negation of a statement is the denial of that statement.

Statement	Negation	represents "not p" or
p	$\sim p$	the negation of p

Given a statement, we can usually insert a "not" to negate the statement.

Statement:	Negation:
The following figure is a triangle.	
$\angle 1$ and $\angle 2$ are vertical angles.	
$m\angle 3 = m\angle 4$.	
Line $l \perp$ *line* m.	

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The negation of a statement is used to create the Inverse of a conditional statement.

Conditional Statement:	Inverse:
$p \rightarrow q$	$\sim p \rightarrow \sim q$
if p, *then* q	*if not* p, *then not* q
If $\angle 1$ and $\angle 2$ are complementary $\angle$s, then $m\angle 1 + m\angle 2 = 90°$.	

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The negation of a statement is used to create the Inverse of a conditional statement.

Conditional Statement:

$p \rightarrow q$

if p, then q

Inverse:

$\sim p \rightarrow \sim q$

if not p, then not q

If B is between A and C, then $AB + BC = AC$.

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The negation of a statement is used to create the Contrapositive of a conditional statement.

Conditional Statement:

$p \rightarrow q$

if p, then q

Contrapositive:

$\sim q \rightarrow \sim p$

if not q, then not p

If $\angle 1$ and $\angle 2$ are complementary $\angle$s, then $m\angle 1 + m\angle 2 = 90°$.

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The negation of a statement is used to create the Contrapositive of a conditional statement.

Conditional Statement:

$p \rightarrow q$

if p, then q

Contrapositive:

$\sim q \rightarrow \sim p$

if not q, then not p

If B is between A and C, then $AB + BC = AC$.

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