Conditionals (If - Then Statements)

Conditional - A statement of the form "If...then...".

If an angle measures 90° then it is a right angle.		
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	"If p then c	2" OR "D implies 2"
Conditional:	$p \rightarrow q$	If an angle measures 90° then it is a right angle.
Converse:	$q \rightarrow p$	If an angle is a right angle then it measures 90° .
2)Inverse:	$\sim p \rightarrow \sim q$	If an angle does not measure 90° then it is not a right angle.
3)Contrapositive:	$\sim q \rightarrow \sim p$	If an angle is not a right angle then it does not measure 90° .
Logically Equivalent - Two statements that have the same truth value. True or False		
The converse and inverse statements are logically equivalent.		

Directions: Identify the hypothesis and the conclusion of each conditional statement.

1. If three points are collinear then they lie on the same line. hypothesis conclusion

2. All squares are quadrilaterals.

3. Vertical angles are congruent.

If the angle pair are vertical angles then they are
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hypothesis conclusion

4. The intersection of two planes is a line.

Directions: Write the converse, inverse and contrapositive of each statement. Determine if the converse, inverse and contrapositive are true or false.

5. Vertical Angles are congruent.