PreAP Geometry Evaluate 2.2 Conditional Statements		Name	Name	
		Date	Period	
For	#1 and #2, rewrite the statements in if-then form:			
1.	Only people who are registered are allowed to vote.			
2.	Points that lie on the same line are collinear.			
For sta	#3 and #4, write the converse, inverse and contrapc tement's truth value (true or false)	ositive of the state	ments. Determine each	
3.	If points are coplanar, then they lie in the same plan	ne.		
			T F	
			T F	
			T F	
4.	If a dog is a Chihuahua, then the dog is small.			
			T F	
			T F	
			T F	

For #5 and #6, indicate the truth value of each statement (true or false). If false, provide a counterexample (justify your answer).

- 5. If $x^2 = 36$, then x must equal 9.
- 6. If $m \angle A = 122^{\circ}$, then the measure of the supplement of $\angle A$ is 58° .

7. Write a conditional statement that is true but the converse is false.

8. Write a conditional statement that is true with a converse that also is true.

For #9 and #10, write the converse of each true statement. If the converse is also true, then write a bi-conditional statement.

- 9. If points lie on the same line, then they are collinear.
- 10. If two angles are supplementary, then their sum is 180°.

For #11 rewrite the bi-conditional statement as a conditional statement and its converse:

11. Two lines are perpendicular if and only if they intersect to form right angles.

For #12, write the inverse of the statement. Then indicate whether the statement is true or false.

12. All birds have feathers.