Related Statements

Write the appropriate symbols or statement in each column of the chart.

	IMPLICATION	CONVERSE	INVERSE	CONTRAPOSITIVE
1	If it snows, then no school			
2			If John doesn't study, then he doesn't get good grades	
3		If $2x=6$, then $x=3$	(Hint: Use $\neq$)	
4				If $a^2 \geq 0$, then $a \geq 0$
5	$A \rightarrow B$			
6		$X \rightarrow Y$		
7			$\sim P \rightarrow Q$	
8				$C \rightarrow \sim F$

or each of the following statements, identify its relationship to the implication. Choose from converse, inverse, contrapositive, or no special relationship to the implication. State whether each is true or false.

- Remember, if the implication is not in if-then form, rewrite it before you start.

9. Implication: *All pelicans eat fish.*
    a) If a bird is a pelican, then it eats fish.
    b) If a creature eats fish, then it is a pelican.
    c) If a bird is not a pelican, then it doesn't eat fish.
    d) If a creature doesn't eat fish, then it is not a pelican.

10. Implication: *All Siths have red light sabers.*
    a) If a person is Sith, then they have a red light saber.
    b) If a person is not a Sith, then they do not have a red light saber.
    c) If a person does not have a red light saber, then they are not a Sith.
    d) If a person has a red light saber, then they are a Sith.