		Name:		Date:
		Practice		
2	-2	Manipulations of conditional stater	nents	
 Each statement below is followed by a second statement. Name the relation between statement 1 and the following statements as negation, converse, inverse, or contrapositive. Statement 1: If you live in Atlantis, then you'll need a snorkel a. Statement 2: if you do not live in Atlantis then you do not need a snorkel. 				
	b. Statement 3: If you do not need a snorkel, then you do not live in Atlantis.			
	c. Statement 4: If you live in Atlantis, then you won't need a snorkel.			
d. Statement 5: If you need a snorkel, then you live in Atlantas.				tas.
(2) Consider the true statement "If your temperature is more than 102° then you have a fever. If the origin statement is represented by $p \to q$, a. Write the statement that is represented by $q \to p$. What is it called?				
	b. Write the statement that is represented by $\sim p \rightarrow \sim q$. What is it called?			
	c. Write the statement that is represented by $\sim q \rightarrow \sim p$. What is it called?			
(3) If you are a horse jokey, then you cannot be heavier than 100lbs.				os.
	a.	Write the contrapositive. Is it true?	b. V	Vrite the inverse. Is it true?
	c.	Write the converse. Is it true?	d. V	Vrite the negation. Is it true?
(4)		ne shape doesn't have straight sides, then it can't be Write the converse. Is it true?		Vrite the inverse. Is it true?
	c.	Write the negation. Is it true?	d. V	Vrite the contrapositive. Is it true?
(5)		conditional statement is not true, then it's negative the converse. Is it true?		Vrite the negation. Is it true?

d. Write the contrapositive. Is it true?

c. Write the inverse. Is it true?