2-3 Practice

Conditional Statements

Identify the hypothesis and conclusion of each statement.

1. If $3x + 4 = -5$, then $x = -3$.

2. If you take a class in television broadcasting, then you will film a sporting event.

Write each statement in if-then form.

3. "Those who do not remember the past are condemned to repeat it." (*George Santayana*)

4. Adjacent angles share a common vertex and a common side.

Determine the truth value of the following statement for each set of conditions.
If DVD players are on sale for less than $100, then you buy one.

5. DVD players are on sale for $95 and you buy one.

6. DVD players are on sale for $100 and you do not buy one.

7. DVD players are not on sale for under $100 and you do not buy one.

8. Write the converse, inverse, and contrapositive of the conditional statement. Determine whether each statement is true or false. If a statement is false, find a counterexample.
   If $(-8)^2 > 0$, then $-8 > 0$.

SUMMER CAMP For Exercises 9 and 10, use the following information.
Older campers who attend Woodland Falls Camp are expected to work. Campers who are juniors wait on tables.

9. Write a conditional statement in if-then form.

10. Write the converse of your conditional statement.