2-3 Practice

Conditional Statements

Identify the hypothesis and conclusion of each conditional 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 each conditional statement. If *true*, explain your reasoning. If *false*, give a counterexample.

5. If a and b are negative, then $a + b$ is also negative.

6. If two triangles have equivalent angle measures, then they are congruent.

7. If the moon has purple spots, then it is June.

8. **SUMMER CAMP** Older campers who attend Woodland Falls Camp are expected to work. Campers who are juniors wait on tables.

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

   b. Write the converse of your conditional statement.