NAME hey  2-3 Practice	DATE
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Conditional Statements Identify the hypothesis and conclusion of each statement.

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

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

hypothesis Write each statement in if-then form.

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

do Not remember the past (then) you are Conscienced to repeat it.

of 2 angles are adjacent (then) they 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.

Converse: If -8 >0, then (-8) 70; true

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.

If you are a junior, then you wait on tables

10. Write the converse of your conditional statement

If you wait on tables, then you are a junior

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Conclusion