NAME _____ DATE _____

Chapter Test C
For use after Chapter 2

Write the inverse, converse, and contrapositive of the conditional statement.

1. If the sky is clear, then we can see the stars at night.

   Inverse: _____

   Converse: _____

   Contrapositive: _____

2. If I sail on a boat, then I will get seasick.

   Inverse: _____

   Converse: _____

   Contrapositive: _____

3. If the angle is less than 90°, then it is an acute angle.

   Inverse: _____

   Converse: _____

   Contrapositive: _____

4. If the tree is an evergreen, then it does not lose its leaves in the fall.

   Inverse: _____

   Converse: _____

   Contrapositive: _____

Rewrite the biconditional statement as a conditional statement.

5. Two segments are congruent if and only if they have the same length.

6. An angle is a right angle if and only if it has a measure of 90°.

Using p and q below, write the symbolic statement.

   p: Points X, Y, and Z are noncollinear.

   q: Points X, Y, and Z form a triangle.

7. $p \rightarrow q$ 8. $\sim q$ 9. $\sim p$

10. $q \rightarrow p$ 11. $\sim p \rightarrow \sim q$ 12. $\sim q \rightarrow \sim p$

Answers

1. See left. _____

2. See left. _____

3. See left. _____

4. See left. _____

5. _____
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6. _____
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12. _____
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Review and Assess