Chapter Test B

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 ride on the Ferris wheel, then I am not afraid of heights.

Inverse:

Converse:

Contrapositive: ____

3. If the point is on the line, then it is in the plane.

Inverse:

Converse:

Contrapositive:

4. If we use a calculator, then we are in math class.

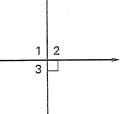
Inverse:

Converse:

Contrapositive:

Determine whether the bicondidional statement about the diagram is *true* or *false*.

- 5. ∠1 and ∠2 are supplementary if and only if they form a linear pair.
- ∠3 and ∠2 are equal if and only if ∠1 and ∠3 are equal.



Using p and q below, write the symbolic statement in words.

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

q: Points X, Y, and Z are coplanar.

7. $p \rightarrow q$

8. ~q

9. ~p

10. $q \rightarrow p$

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

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

- 1. See left.
- 2. See left.
- 3. See left.
- 4. See left.
- -
- 7. _
- 8. _____
- Q.
- _____
- _____
- 11._____
- 12. _____