Lesson 4.4 ~ Quadrilaterals on the Coordinate Plane
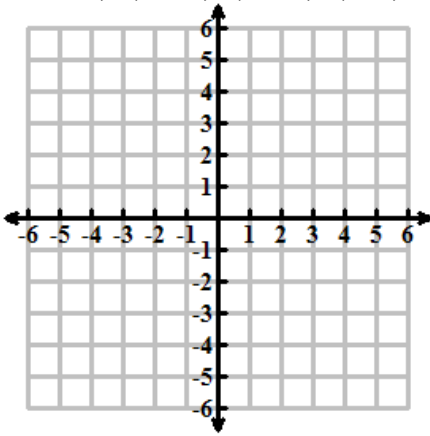
Name_____ Period_____ Date_____

Determine if each statement is ALWAYS TRUE, SOMETIMES TRUE or NEVER TRUE.
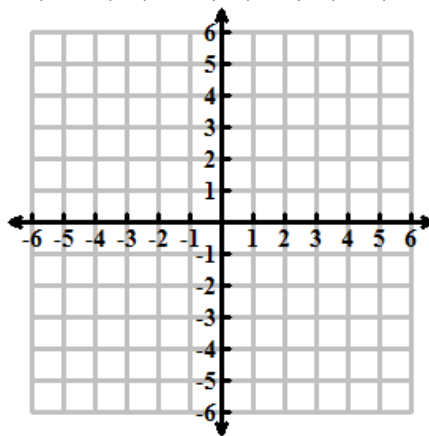
1. A square is a rhombus.

2. A parallelogram is a rectangle.

3. A rhombus is a trapezoid.

4. A quadrilateral is a rectangle.

Graph each set of points on a coordinate plane. Connect the points in the order given. Connect the last point to the first. Name the shape with all terms that apply (parallelogram, rectangle, rhombus, square and/or trapezoid).
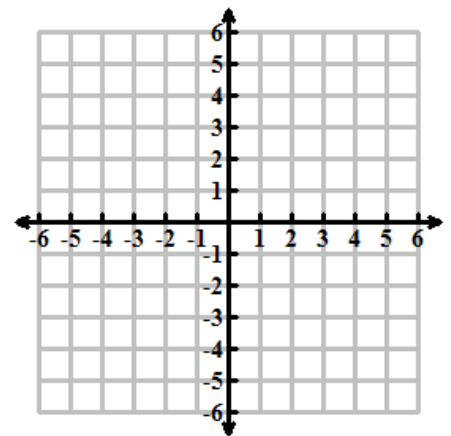
5. (3, 5), (3, −3), (5, −3), (5, 5)

6. (−4, 1), (−4, 5), (0, 5), (0, 1)

7. (−1, 2), (−1, −3), (2, −2), (2, 3)

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8. Find the area and perimeter of the figure in Exercise 5.

9. Find the area and perimeter of the figure in Exercise 6.

10. Three of the four vertices of a parallelogram are (−2, 7), (3, 7) and (2, 5). What are the coordinates of the missing vertex?