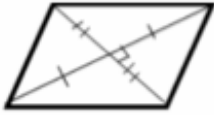


13.10 Quads Day 2 Practice

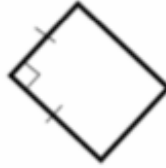
$$\sqrt{(x_2-x_1)^2 + (y_2-y_1)^2}$$

Each figure is a special parallelogram. Identify whether each is a rectangle, rhombus, or square. Remember to use your properties for the rectangle, rhombus, and square, because the pictures are not drawn to scale!

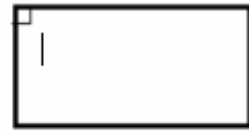
1.



2.



3.



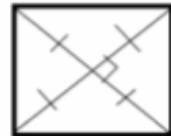
4.



5.



6.



Identify each description as a rectangle, rhombus, or square.

- 7. Four congruent sides and four congruent angles
- 8. Four right angles with opposite sides congruent
- 9. Four congruent sides and no right angles
- 10. Diagonals that are congruent
- 11. Diagonals that are perpendicular
- 12. Diagonals that bisect a pair of opposite angles

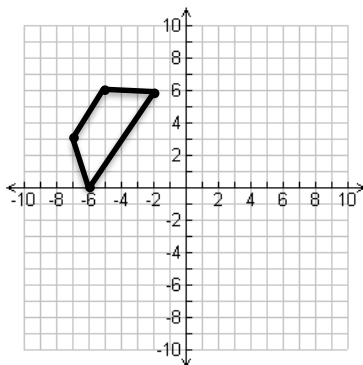
Find the distance between the following points.

13. P (4, 3) and Q (7, 1)

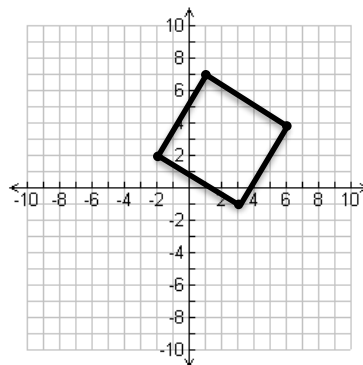
14. R (4, -3) and S (-2, 1)

Decide if the following shapes are parallelograms or trapezoids using the distance formula.

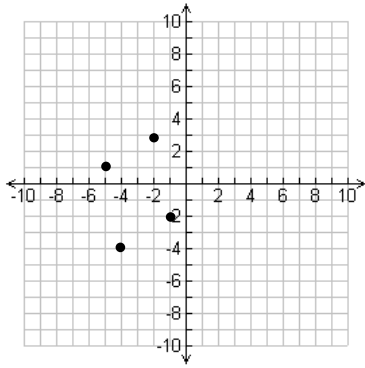
15.



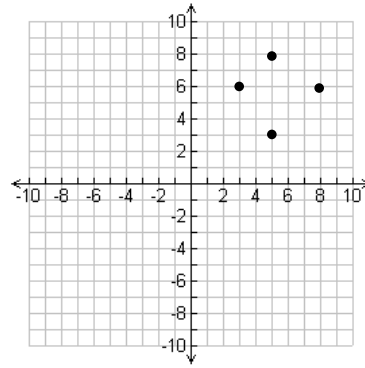
16.



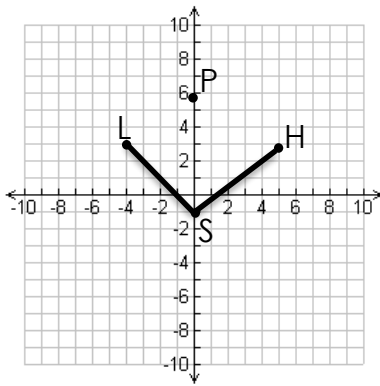
17.



18.



19. What MUST the distance be for LP in order to be a parallelogram?



20. What CAN NOT be the distance of MR in order to be a trapezoid?

