

Name: _____

Date: _____

The goal of this assignment is to use the distance and slope formulas to prove statements about geometric figures on the coordinate plane. Since the purpose is to prove a statement, you must show work.

1. Quadrilateral 1: Plot and label each point. A(-1, 3), B(3, 1), C(1, -2), and D(-3, 0).

2. Definition: A parallelogram is a quadrilateral with two pair of opposite sides that are parallel. Using the definition of a parallelogram, prove that Quadrilateral 1 is a parallelogram. (Hint: Find the slopes of all the sides)

$$\begin{aligned} AB &= -2/4 = -1/2 \\ BC &= 3/2 \\ CD &= -2/4 = -1/2 \\ AD &= 3/2 \end{aligned}$$

opposite sides $\parallel$



3. Definition: A rectangle is a parallelogram with four right angles. Using the definition of a rectangle, prove that Quadrilateral 1 is NOT a rectangle. (Hint: What do you notice about the slopes of adjacent sides?)

consecutive/adjacent sides are NOT opposite reciprocals

4. Definition: A rectangle is a parallelogram with congruent diagonals. Using the definition of a rectangle, prove that Quadrilateral 1 is NOT a rectangle. (Hint: Find the lengths of the diagonals, what do you notice?)

$$\begin{aligned} AC &= 5.4 \\ BD &= 6.1 \end{aligned}$$

$$\begin{aligned} AC &= \sqrt{(5)^2 + (3)^2} = \sqrt{34} \\ BD &= \sqrt{(6)^2 + (1)^2} = \sqrt{37} \end{aligned}$$

5. Quadrilateral 2: Plot and label each point. A(-3, -3), B(1, 1), C(5, -3), and D(1, -7).

6. Definition: A parallelogram is a quadrilateral with two pairs of opposite sides that are parallel. Using the definition of a parallelogram, prove that Quadrilateral 2 is a parallelogram. (Hint: Find the slopes of all the sides)

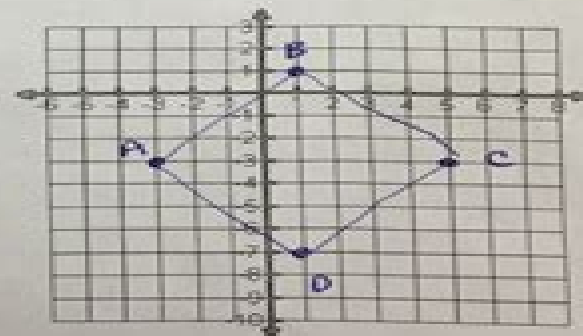
$$\begin{aligned} AB &= 4/4 = 1 \\ BC &= -4/4 = -1 \\ CD &= 4/4 = 1 \\ AD &= -4/4 = -1 \end{aligned}$$

7. Definition: A rectangle is a parallelogram with 4 right angles. Using the definition, prove that Quadrilateral 2 is a rectangle. (Hint: What do you notice about the slopes of adjacent sides?)

opposite reciprocal slopes = $\perp$ = 90°

8. Definition: A rhombus is a parallelogram with all sides congruent. Using the definition, prove that Quadrilateral 2 is a rhombus. (Hint: Find the length or distance of each side.)

$$\begin{aligned} AB &= 5.7 \\ BC &= 5.7 \\ CD &= 5.7 \\ AD &= 5.7 \end{aligned} \quad \left. \begin{array}{l} AB \\ BC \\ CD \\ AD \end{array} \right\} \text{All } \approx$$



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KJ Lindholm-Leary



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