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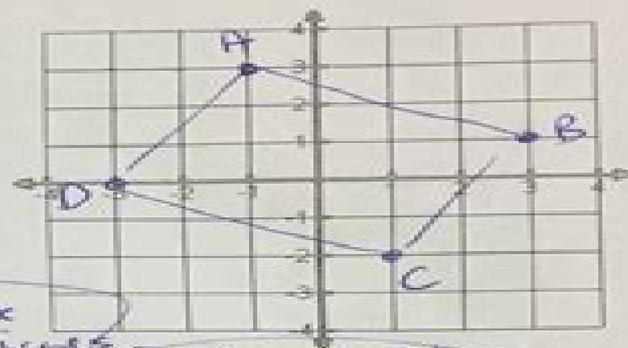
The goal of this assignment is to use the distance and slope formulas to prove statements about geometric figures on the coordinate plane. Since the purpose is to prove a statement, you must show work.

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

NO RT \angle 'S

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?)

$$\begin{aligned} AC: 5.4 \\ BD: 6.1 \end{aligned}$$

$$AC = \sqrt{(5)^2 + (3)^2} = \sqrt{29}$$

$$BD = \sqrt{(6)^2 + (1)^2} = \sqrt{37}$$

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.)

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

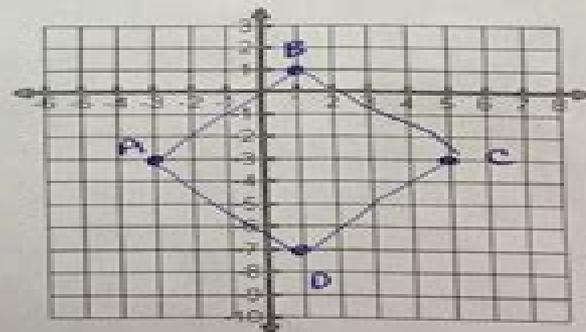
7. Definition: A rectangle is a parallelogram with 4 right angles. Using the definition, prove that Quadrilateral 2 is a rectangle. (Hint: What do you notice about the slopes of adjacent sides?)

opposite reciprocal slopes = \perp = RT \angle 's

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.)

$$AB = \sqrt{(4)^2 + (4)^2} = \sqrt{32}$$

All \cong



Ga Coordinate Algebra Study Guide Unit 6

A Loxley



Ga Coordinate Algebra Study Guide Unit 6:

Ga Coordinate Algebra Study Guide Unit 6 Book Review: Unveiling the Magic of Language

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