Connecting Algebra & Geometry Through Coordinates WS 2

Name: _____ Date: _____

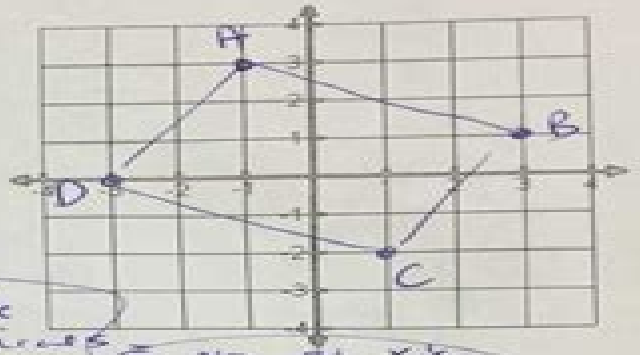
The goal of this assignment is to use the distance and slope formulas to prove statements about geometric figures on the coordinate plane. Since the purpose is to prove a statement, you **must show work.**

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)**

AB: $-3/4 = -3/4$
BC: $3/2$
CD: $-3/4 = -3/4$
AD: $3/2$

opposite sides ||



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 ∠'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?)**

AC: $5-4$
BD: $6-1$

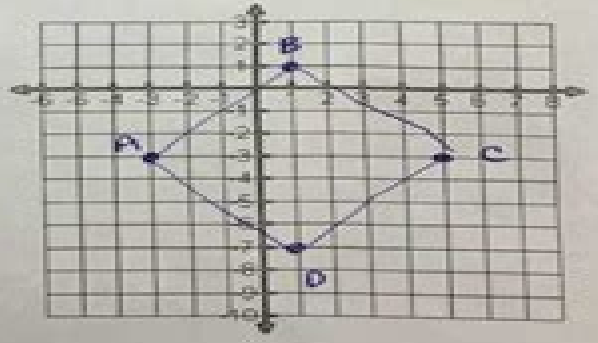
$AC = \sqrt{(5)^2 + (2)^2} = \sqrt{29}$

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

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)**

AB: $4/4 = 1$
BC: $-4/4 = -1$
CD: $4/4 = 1$
AD: $-4/4 = -1$



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 slope = 1 = Rt ∠'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: $5-7$
BC:
CD:
AD:

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

All ≅

Answer Key Punchline Number Theory

Jin-Ying Zhang

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