

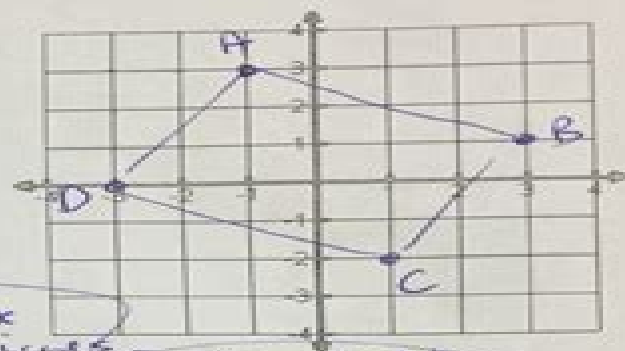
Name: _____ Date: _____

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: $\frac{-2-3}{4-(-1)} = -\frac{5}{5} = -1$
 BC: $\frac{1-(-2)}{3-1} = \frac{3}{2}$
 CD: $\frac{0-(-2)}{-3-1} = \frac{2}{-4} = -\frac{1}{2}$
 AD: $\frac{3-0}{-1-(-3)} = \frac{3}{2}$

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?)

AC: $\sqrt{5^2 + 4^2} = \sqrt{41}$
 BD: $\sqrt{6^2 + 1^2} = \sqrt{37}$

$AC = \sqrt{(5)^2 + (4)^2} = \sqrt{41}$

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

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)

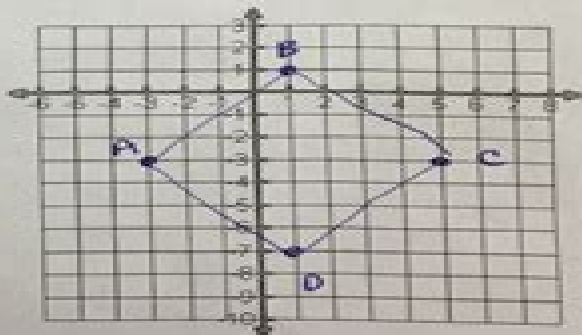
AB: $\frac{1-(-3)}{1-(-3)} = 1$
 BC: $\frac{-3-1}{5-1} = -1$
 CD: $\frac{-7-(-3)}{1-5} = 1$
 AD: $\frac{-7-(-3)}{1-(-3)} = -1$

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 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.)

AB: $\sqrt{4^2 + 4^2} = \sqrt{32}$
 BC: $\sqrt{4^2 + 4^2} = \sqrt{32}$
 CD: $\sqrt{4^2 + 4^2} = \sqrt{32}$
 AD: $\sqrt{4^2 + 4^2} = \sqrt{32}$
 All \approx



Ga Coordinate Algebra Study Guide Unit 6

Katrin Zwirgmaier



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