

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.)

$$\begin{aligned} AB &= \frac{3-0}{-1-3} = -\frac{3}{4} \\ BC &= \frac{1-(-2)}{3-1} = \frac{3}{2} \\ CD &= \frac{-2-1}{1-3} = \frac{3}{2} \\ AD &= \frac{3-0}{-1-(-3)} = \frac{3}{2} \end{aligned}$$

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?)

$$\begin{aligned} AC &= \sqrt{5^2 + 4^2} = \sqrt{41} \\ BD &= \sqrt{6^2 + 1^2} = \sqrt{37} \end{aligned}$$

$$\begin{aligned} AC &= \sqrt{(5)^2 + (4)^2} = \sqrt{41} \\ BD &= \sqrt{(6)^2 + (1)^2} = \sqrt{37} \end{aligned}$$

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.)

$$\begin{aligned} AB &= \frac{1-(-3)}{1-(-3)} = 1 \\ BC &= \frac{-3-1}{5-1} = -1 \\ CD &= \frac{-3-(-7)}{5-1} = 1 \\ AD &= \frac{-7-(-3)}{1-(-3)} = -1 \end{aligned}$$

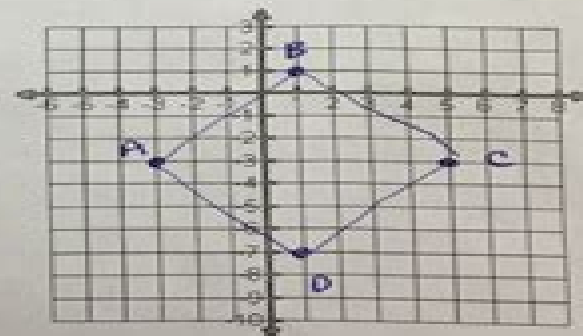
7. Definition: A rectangle is a parallelogram with 4 right angles. Using the definition, prove that Quadrilateral 2 is a rectangle. (Hint: What do you notice about the slopes of adjacent sides?)

opposite reciprocal slopes = \perp = right angles

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.)

$$\begin{aligned} AB &= \sqrt{(4)^2 + (4)^2} = \sqrt{32} \\ BC &= \sqrt{(4)^2 + (4)^2} = \sqrt{32} \\ CD &= \sqrt{(4)^2 + (4)^2} = \sqrt{32} \\ AD &= \sqrt{(4)^2 + (4)^2} = \sqrt{32} \end{aligned}$$

All \approx



Coordinate Algebra Unit 4 Answer Key

Christian Drosten



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Table of Contents Coordinate Algebra Unit 4 Answer Key

1. Understanding the eBook Coordinate Algebra Unit 4 Answer Key
 - The Rise of Digital Reading Coordinate Algebra Unit 4 Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Coordinate Algebra Unit 4 Answer Key
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Coordinate Algebra Unit 4 Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Coordinate Algebra Unit 4 Answer Key
 - Personalized Recommendations
 - Coordinate Algebra Unit 4 Answer Key User Reviews and Ratings
 - Coordinate Algebra Unit 4 Answer Key and Bestseller Lists
5. Accessing Coordinate Algebra Unit 4 Answer Key Free and Paid eBooks
 - Coordinate Algebra Unit 4 Answer Key Public Domain eBooks
 - Coordinate Algebra Unit 4 Answer Key eBook Subscription Services
 - Coordinate Algebra Unit 4 Answer Key Budget-Friendly Options

6. Navigating Coordinate Algebra Unit 4 Answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Coordinate Algebra Unit 4 Answer Key Compatibility with Devices
 - Coordinate Algebra Unit 4 Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Coordinate Algebra Unit 4 Answer Key
 - Highlighting and Note-Taking Coordinate Algebra Unit 4 Answer Key
 - Interactive Elements Coordinate Algebra Unit 4 Answer Key
8. Staying Engaged with Coordinate Algebra Unit 4 Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Coordinate Algebra Unit 4 Answer Key
9. Balancing eBooks and Physical Books Coordinate Algebra Unit 4 Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Coordinate Algebra Unit 4 Answer Key
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Coordinate Algebra Unit 4 Answer Key
 - Setting Reading Goals Coordinate Algebra Unit 4 Answer Key
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Coordinate Algebra Unit 4 Answer Key
 - Fact-Checking eBook Content of Coordinate Algebra Unit 4 Answer Key
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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