

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.)

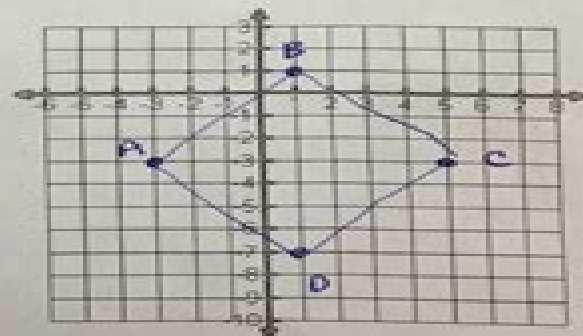
$$\begin{aligned} AB &= 4/4 = 1 \\ BC &= -4/4 = -1 \\ CD &= 4/4 = 1 \\ AD &= -4/4 = -1 \end{aligned}$$

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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**Robert Sheperd, Rhonda Davis Leslie
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Table of Contents Ccgps Coordinate Algebra Unit 6 Answers

1. Understanding the eBook Ccgps Coordinate Algebra Unit 6 Answers
 - The Rise of Digital Reading Ccgps Coordinate Algebra Unit 6 Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Ccgps Coordinate Algebra Unit 6 Answers
 - 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 Ccgps Coordinate Algebra Unit 6 Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ccgps Coordinate Algebra Unit 6 Answers
 - Personalized Recommendations

- Ccgps Coordinate Algebra Unit 6 Answers User Reviews and Ratings
- Ccgps Coordinate Algebra Unit 6 Answers and Bestseller Lists
- 5. Accessing Ccgps Coordinate Algebra Unit 6 Answers Free and Paid eBooks
 - Ccgps Coordinate Algebra Unit 6 Answers Public Domain eBooks
 - Ccgps Coordinate Algebra Unit 6 Answers eBook Subscription Services
 - Ccgps Coordinate Algebra Unit 6 Answers Budget-Friendly Options
- 6. Navigating Ccgps Coordinate Algebra Unit 6 Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Ccgps Coordinate Algebra Unit 6 Answers Compatibility with Devices
 - Ccgps Coordinate Algebra Unit 6 Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ccgps Coordinate Algebra Unit 6 Answers
 - Highlighting and Note-Taking Ccgps Coordinate Algebra Unit 6 Answers
 - Interactive Elements Ccgps Coordinate Algebra Unit 6 Answers
- 8. Staying Engaged with Ccgps Coordinate Algebra Unit 6 Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ccgps Coordinate Algebra Unit 6 Answers
- 9. Balancing eBooks and Physical Books Ccgps Coordinate Algebra Unit 6 Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ccgps Coordinate Algebra Unit 6 Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Ccgps Coordinate Algebra Unit 6 Answers
 - Setting Reading Goals Ccgps Coordinate Algebra Unit 6 Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Ccgps Coordinate Algebra Unit 6 Answers
 - Fact-Checking eBook Content of Ccgps Coordinate Algebra Unit 6 Answers

- 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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