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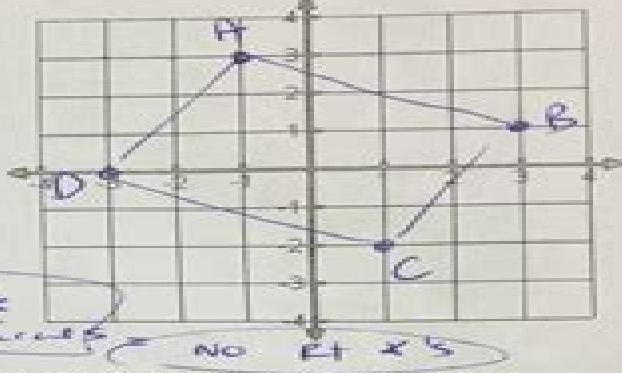
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The goal of this assignment is to use the distance and slope formulas to prove statements about geometric figures on the coordinate plane. Since the purpose is to prove a statement, you **must** show work.

- Quadrilateral 1: Plot and label each point. $A(-1, 3)$, $B(3, 1)$, $C(1, -2)$, and $D(-3, 0)$.
- Definition: A parallelogram is a quadrilateral with two pairs 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.)

$$\begin{aligned} AB: & -2/4 = -1/2 \\ BC: & 3/2 \\ CD: & -1/4 = -1/2 \\ AD: & 3/2 \end{aligned}$$

Opposite sides \parallel



- 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 $ft \times 5$

- 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?)

$$\begin{aligned} AC: & 5+4 \\ BD: & 6+1 \end{aligned}$$

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

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

- Quadrilateral 2: Plot and label each point. $A(-3, -3)$, $B(1, 1)$, $C(5, -3)$, and $D(1, -7)$.

- 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.)

$$\begin{aligned} AB: & 4/4 = 1 \\ BC: & -7/4 = -1 \\ CD: & 4/4 = 1 \\ AD: & -7/4 = -1 \end{aligned}$$

- 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?)

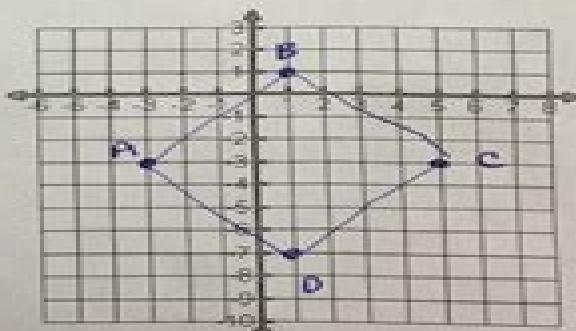
opposite reciprocal slope = $1 \times -1 = -1 \times 1$

- 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.)

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

$$\begin{aligned} AD: & 5+7 \\ BC: & 3 \end{aligned}$$

AB \cong



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**Robert Sheperd, Rhonda Davis Leslie
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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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