

Geometry Notes

6-3 Conditions for Parallelograms

In Section 6-2, we looked at the definition of a parallelogram and special properties of parallelograms. In this section, we will work backwards. Given a quadrilateral, how do we know whether or not it is a parallelogram? There are several ways to tell.

Conditions for Parallelograms

A quadrilateral is a parallelogram if:

- 1) **Both** pairs of opposite sides are **parallel** (remember this is the definition.)
- 2) **Both** pairs of opposite **sides** are **congruent**.
- 3) **Both** pairs of opposite **angles** are **congruent**.
- 4) **One** pair of opposite **sides** is both **parallel AND congruent**.
- 5) An angle is **supplementary** to **both** of its **consecutive angles**.
- 6) **Both diagonals bisect each other**.

Ex. 1: Determine if each of the following must be a parallelogram. If so, give the reason.

a)



Yes, one pair of sides parallel and $\cong$

b)



Yes, one angle is supp. to both consecutive angles

c)



No

d)



Technically, yes. You can show that the parallel sides are $\cong$ by ASA.

Reteach 6 2 Properties Of Parallelograms Answers

N Colangelo



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Table of Contents Reteach 6 2 Properties Of Parallelograms Answers

1. Understanding the eBook Reteach 6 2 Properties Of Parallelograms Answers
 - The Rise of Digital Reading Reteach 6 2 Properties Of Parallelograms Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Reteach 6 2 Properties Of Parallelograms 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 Reteach 6 2 Properties Of Parallelograms Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Reteach 6 2 Properties Of Parallelograms Answers
 - Personalized Recommendations
 - Reteach 6 2 Properties Of Parallelograms Answers User Reviews and Ratings
 - Reteach 6 2 Properties Of Parallelograms Answers and Bestseller Lists
5. Accessing Reteach 6 2 Properties Of Parallelograms Answers Free and Paid eBooks
 - Reteach 6 2 Properties Of Parallelograms Answers Public Domain eBooks
 - Reteach 6 2 Properties Of Parallelograms Answers eBook Subscription Services
 - Reteach 6 2 Properties Of Parallelograms Answers Budget-Friendly Options

6. Navigating Reteach 6 2 Properties Of Parallelograms Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Reteach 6 2 Properties Of Parallelograms Answers Compatibility with Devices
 - Reteach 6 2 Properties Of Parallelograms Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Reteach 6 2 Properties Of Parallelograms Answers
 - Highlighting and Note-Taking Reteach 6 2 Properties Of Parallelograms Answers
 - Interactive Elements Reteach 6 2 Properties Of Parallelograms Answers
8. Staying Engaged with Reteach 6 2 Properties Of Parallelograms Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Reteach 6 2 Properties Of Parallelograms Answers
9. Balancing eBooks and Physical Books Reteach 6 2 Properties Of Parallelograms Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Reteach 6 2 Properties Of Parallelograms Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Reteach 6 2 Properties Of Parallelograms Answers
 - Setting Reading Goals Reteach 6 2 Properties Of Parallelograms Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Reteach 6 2 Properties Of Parallelograms Answers
 - Fact-Checking eBook Content of Reteach 6 2 Properties Of Parallelograms Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

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- Interactive and Gamified eBooks

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