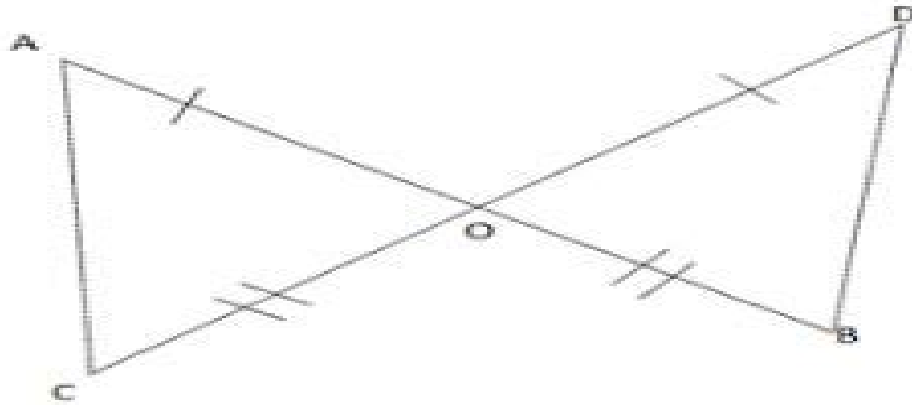


Given: Line segments AB and CD intersect at O such that  $OA = OD$  and  $OB = OC$ .



To prove:  $AC = BD$

Proof: In  $\triangle AOC$  and  $\triangle BOD$ , we have

$$AO = OD \quad [\text{Given}]$$

$$\angle AOC = \angle BOD \quad [\text{Vertically opposite angles are equal}]$$

$$OC = OB \quad [\text{Given}]$$

So, by Side-Angle-Side criterion of congruence, we have,

$$\Rightarrow \triangle AOC \cong \triangle BOD$$

$$\Rightarrow AC = BD \quad [\text{Since the corresponding parts of the congruent triangles are equal}]$$

$$\Rightarrow \angle CAO = \angle BDO \quad [\text{by c.p.c.t}]$$

Thus, we have,  $AC = BD$

In case  $\angle ODB = \angle OBD$ , then  $\angle CAO = \angle OBD$  which means alternate angles made by lines AC and BD with transversal AB are equal and then lines AC and BD will be parallel.

# Congruent Triangles Milliken Publishing Answers

**Padhraic Smyth**



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## **Table of Contents Congruent Triangles Milliken Publishing Answers**

1. Understanding the eBook Congruent Triangles Milliken Publishing Answers
  - The Rise of Digital Reading Congruent Triangles Milliken Publishing Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Congruent Triangles Milliken Publishing 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 Congruent Triangles Milliken Publishing Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Congruent Triangles Milliken Publishing Answers
  - Personalized Recommendations
  - Congruent Triangles Milliken Publishing Answers User Reviews and Ratings

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