

RIGHT TRIANGLE SIMILARITY



Big Picture

Right triangles have a lot of special characteristics, and similarity is no exception. Understanding similar right triangles is very useful in geometry and trigonometry.

Key Terms

Altitude: A line segment drawn perpendicularly from a vertex of the triangle to the other side.

Geometric Mean: The n th root of the product of n numbers.

Right Triangle Altitudes

An **altitude** is a perpendicular segment that connects the vertex of a triangle to the opposite side. It is also known as the height of the triangle.



The altitude of right triangles has a special attribute.

Theorem: If the altitude is drawn to the hypotenuse of a right triangle, then the two triangles formed are similar to the original triangle and to each other.



Since the triangles are similar, side proportions can be used to find the lengths of any missing lengths or altitude.

$$\frac{AC}{AB} = \frac{AD}{AC} = \frac{CD}{CB}$$

$$\frac{AC}{AD} = \frac{AB}{AC} = \frac{CB}{CD}$$

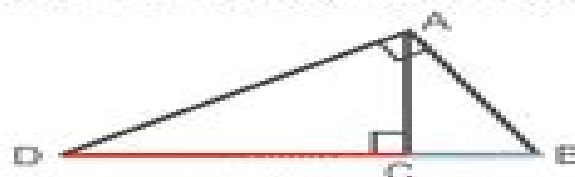
$$\frac{AB}{AD} = \frac{CB}{CD} = \frac{CA}{CA}$$

Geometric Mean

The **geometric mean** of two positive numbers a and b is the number x so that $\frac{a}{x} = \frac{x}{b}$.

$$\frac{a}{x} = \frac{x}{b} \Rightarrow x^2 = ab \Rightarrow x = \sqrt{ab}$$

The geometric mean can be used to find the altitude of a right triangle.



In a right triangle, the altitude drawn from the right angle to the hypotenuse divides the hypotenuse into two segments. In the triangle above, the hypotenuse is divided into AD and DB .



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Table of Contents Geometry Similarity Study Guide Answers

1. Understanding the eBook Geometry Similarity Study Guide Answers
 - The Rise of Digital Reading Geometry Similarity Study Guide Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Geometry Similarity Study Guide 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 Geometry Similarity Study Guide Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Geometry Similarity Study Guide Answers
 - Personalized Recommendations
 - Geometry Similarity Study Guide Answers User Reviews and Ratings
 - Geometry Similarity Study Guide Answers and Bestseller Lists
5. Accessing Geometry Similarity Study Guide Answers Free and Paid eBooks
 - Geometry Similarity Study Guide Answers Public Domain eBooks

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