

8-4 SIMILARITY IN RIGHT TRIANGLES (p. 439-444)

There is no need to do the Investigation.



When altitude \overline{CD} is drawn to the hypotenuse of $\triangle ABC$ in the first diagram on the left, three similar triangles are formed. Let's see why?

1. Why is $\triangle BCA \sim \triangle CDA$?
2. Why is $\triangle BCA \sim \triangle BDC$?
3. After answering the first two questions, why is $\triangle CDA \sim \triangle BDC$?
4. How do the three triangles relate to each other?

The first result from the investigation of the three right triangles is summarized in Theorem 8-3.

Theorem 8-3

The altitude to the hypotenuse of a right triangle divides the triangle into two triangles that are similar to the original triangle and to each other.

In the proportion $\frac{a}{b} = \frac{c}{d}$, b and c are called the means and a and d are called the extremes of the proportion.

In the proportion $\frac{a}{x} = \frac{x}{b}$, notice that the means are equal (they are both equal to x). This type of proportion is sometimes referred to as a mean proportion. Also, x is referred to as the geometric mean of a and b (recall that a and b are the extremes).

By the cross-product property, $x^2 = ab$. Why is $x = \sqrt{ab}$?

So, to find the geometric mean of two numbers, take the square root of the product of the two numbers.

Practice 8 4 Similarity In Right Triangles

Marcel A. Müller



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Table of Contents Practice 8 4 Similarity In Right Triangles

1. Understanding the eBook Practice 8 4 Similarity In Right Triangles
 - The Rise of Digital Reading Practice 8 4 Similarity In Right Triangles
 - Advantages of eBooks Over Traditional Books
2. Identifying Practice 8 4 Similarity In Right Triangles
 - 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 Practice 8 4 Similarity In Right Triangles
 - User-Friendly Interface
4. Exploring eBook Recommendations from Practice 8 4 Similarity In Right Triangles
 - Personalized Recommendations
 - Practice 8 4 Similarity In Right Triangles User Reviews and Ratings
 - Practice 8 4 Similarity In Right Triangles and Bestseller Lists
5. Accessing Practice 8 4 Similarity In Right Triangles Free and Paid eBooks
 - Practice 8 4 Similarity In Right Triangles Public Domain eBooks
 - Practice 8 4 Similarity In Right Triangles eBook Subscription Services
 - Practice 8 4 Similarity In Right Triangles Budget-Friendly Options
6. Navigating Practice 8 4 Similarity In Right Triangles eBook Formats

- ePub, PDF, MOBI, and More
 - Practice 8 4 Similarity In Right Triangles Compatibility with Devices
 - Practice 8 4 Similarity In Right Triangles Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Practice 8 4 Similarity In Right Triangles
 - Highlighting and Note-Taking Practice 8 4 Similarity In Right Triangles
 - Interactive Elements Practice 8 4 Similarity In Right Triangles
 8. Staying Engaged with Practice 8 4 Similarity In Right Triangles
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Practice 8 4 Similarity In Right Triangles
 9. Balancing eBooks and Physical Books Practice 8 4 Similarity In Right Triangles
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Practice 8 4 Similarity In Right Triangles
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Practice 8 4 Similarity In Right Triangles
 - Setting Reading Goals Practice 8 4 Similarity In Right Triangles
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Practice 8 4 Similarity In Right Triangles
 - Fact-Checking eBook Content of Practice 8 4 Similarity In Right Triangles
 - 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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