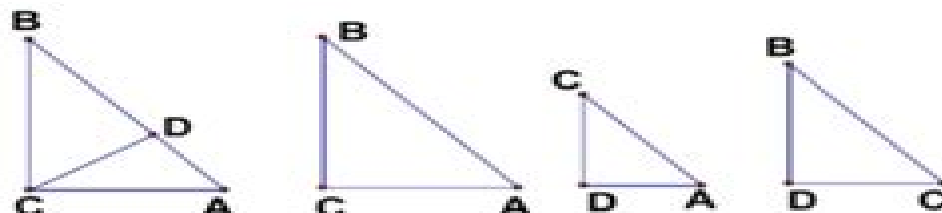


8-4 SIMILARITY IN RIGHT TRIANGLES (p. 439-444)

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

Kathy A. Zahler



Practice 8 4 Similarity In Right Triangles:

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Diplomatic and Consular Reports Great Britain. Foreign Office,1904

Practice 8 4 Similarity In Right Triangles Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Practice 8 4 Similarity In Right Triangles**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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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 a 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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