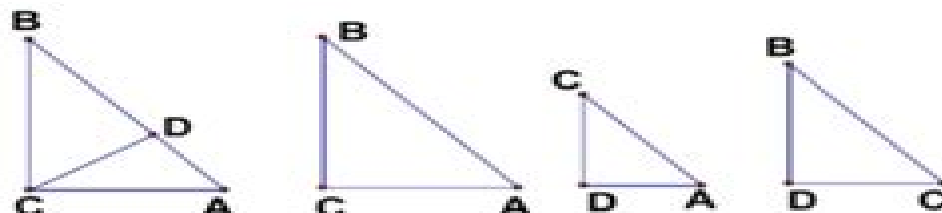


8-4 SIMILARITY IN RIGHT TRIANGLES (p. 439-444)

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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Eureka Math Geometry Study Guide Great Minds, 2016-08 The team of teachers and mathematicians who created Eureka Math believe that it s not enough for students to know the process for solving a problem they need to know why that process works That s why students who learn math with Eureka can solve real world problems even those they have never encountered before The Study Guides are a companion to the Eureka Math

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GCSE Maths Edexcel Student Book - Higher ,2021-10-08 This superb CGP in depth Student Book covers everything you need to succeed in Edexcel 9 1 GCSE Maths It s packed with detailed accessible notes backed up with fully worked examples Practice questions and exam style questions are included throughout complete with worked solutions Each section is rounded off with a review exercise perfect for recapping all of the content pupils have learnt We ve even included handy references to the Edexcel specification and learning objectives so you know exactly which bits of the spec are covered by each part of the book *Think Math! Plane Figures and Spatial Sense, Grade 2* Harcourt School Publishers,2005-11

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The Educational Times, and Journal of the College of Preceptors ,1903 McGraw-Hill Education Preparation for the TASC Test 2nd Edition Kathy A. Zahler,2015-05-29 Publisher s Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product The official guide for TASC the new high school equivalency test straight from the test makers at CTB McGraw Hill Now updated to cover major changes in test content McGraw Hill Preparation for the TASC Test walks you step by step through the test Each section features a pre test that helps you identify strengths and weaknesses before study Each chapter includes review of the test subjects and exercises that reinforce new skills Learning objectives are based on the Common Core State Standards just like the real exam You also get authentic TASC test questions with explanations straight from the test maker Test presently administered in California Indiana Nevada New Jersey New York West Virginia and Wyoming Features

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In a digital era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Practice 8 4 Similarity In Right Triangles**," compiled by a very 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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