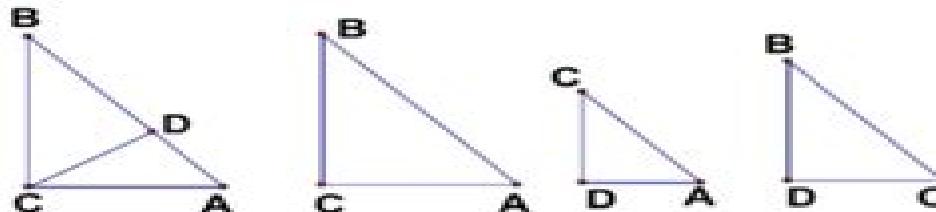


8-4 SIMILARITY IN RIGHT TRIANGLES (p. 439-444)

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 $\triangle ABC \sim \triangle CDA$?
2. Why is $\triangle ABC \sim \triangle BDC$?
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:

Geometry , Grades 7 - 9 , 2014-02-03 The 100 Series Geometry offers in depth practice and review for challenging middle school math topics such as rotations reflections and transformations congruence and similarity and sine and cosine functions Common Core State Standards have raised expectations for math learning and many students in grades 6 8 are studying more accelerated math at younger ages As a result parents and students today have an increased need for at home math support The 100 Series provides the solution with titles that include over 100 targeted practice activities for learning algebra geometry and other advanced math topics It also features over 100 reproducible subject specific practice pages to support standards based instruction *Practice Makes Perfect Trigonometry* Carolyn Wheater, 2011-11-11 Sales Handle A no nonsense practical guide to trigonometry providing concise summaries clear model examples and plenty of practice making this workbook the ideal complement to class study or self study preparation for exams or a brush up on rusty skills About the Book Established as a successful practical workbook series with over 30 titles in the language learning category Practice Makes Perfect now provides the same clear concise approach and extensive exercises to key fields within mathematics The key to the Practice Makes Perfect series is the extensive exercises that provide learners with all the practice they need for mastery Not focused on any particular test or exam but complementary to most trigonometry curricula Large trim allows clear presentation of worked problems exercises and explained answers Practice on essential trig concepts sine cosine tangent cotangent secant and cosecant Features No nonsense approach provides clear presentation of content Over 500 exercises and answers covering all aspects of trigonometry Successful series Practice Makes Perfect has sales of 1 million copies in the language category now applied to mathematics Market Audience For students who need to review and practice trigonometry whether to keep up with class work or to prepare for a test or exam such as SAT and ACT in the US or GCSE in the UK International suitability High Benefit to the Customer Workbook is not exam specific yet it provides thorough coverage of the trigonometry skills required in most math tests About the Authors Carolyn Wheater Hawthorne NJ teaches middle school and upper school mathematics at the Nightingale Bamford School in New York City Educated at Marymount Manhattan College and the University of Massachusetts Amherst she has taught math and computer technology for 30 years to students from preschool through college She is a member of National Council of Teachers of Mathematics NCTM and the Association of Teachers in Independent Schools *Math Advantage, Grade 8* Grace M. Burton, Harcourt Brace, 1998-05-22

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