

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

Brendan G. Carr



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