Wednesday, March 29, 2023 8:56 PM

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Pythagorean Theorem and Its Converse Workbook pages 127-130

Content Objective

Students will solve problems using the Pythagorean Theorem and its convers



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Florida's B.E.S.T. Standards for Mathematics

MA.912.GR.3.2

Given a mathematical context, use coordinate geometry to classify or justify definitions, properties and theorems involving circles, triangles or quadrilaterals.

MA.912.T.1.2

Solve mathematical and real-world problems involving right triangles using trigonometric ratios and the Pythagorean Theorem.

Learn

The Pythagorean Theorem

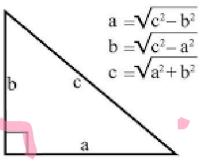
The Pythagorean Theorem relates the lengths of the hypotenuse and legs of a right triangle.

In a right triangle,
the sum of the squares of the lengths
of the legs is equal to
the square of the length of the hypotenuse.



The Pythagorean Theorem

$$c^2 = a^2 + b^2$$





Students, draw anywhere on this slide!

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Learn

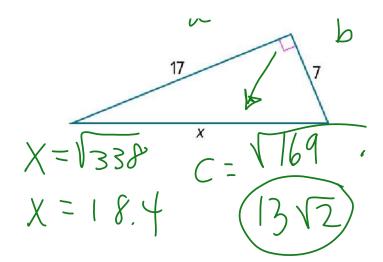
The Pythagorean Theorem

A **Pythagorean triple** is a set of three nonzero whole numbers a, b, and c, such that $a^2 + b^2 = c^2$. The most common Pythagorean triples are shown below in the first row. The triples below them are found by multiplying each number in the triple by the same factor.

Common Pythagorean Triples			
3, 4, 5	5, 12, 13	8, 15, 17	7, 24, 25
6, 8, 10	10, 24, 26	16, 30, 34	14, 48, 50
9, 12, 15	15, 36, 39	24, 45, 51	21, 72, 75
3x, 4x, 5x	5x, 12x, 13x	8 <i>x</i> , 15 <i>x</i> , 17 <i>x</i>	7x, 24x, 25x

McGraw Hill | Pythagorean Theorem and Its Converse

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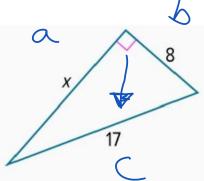
Students, draw anywhere on this slide!

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Find Missing Measures by Using the Pythagorean Theorem

Find the value of x,





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Find Missing Measures by Using the Pythagorean Theorem

Use a Pythagorean Triple to find the value of x.

