

## Pythagorean Theorem

### Learning Objectives

In this lesson, students will learn the Pythagorean Theorem, which relates the side lengths of a right triangle to the area of the triangle. Students will learn that Pythagorean Triples are sets of three integers that represent the side lengths of a right triangle. Students will also learn the Pythagorean Theorem and Pythagorean Triples are used to solve real-world problems like finding the distance between two points.

### TEKS

- 8.6.C **Pythagorean Theorem:** The student applies the Pythagorean Theorem to solve real-world and mathematical problems.
- 8.6.D **Pythagorean Triples:** The student applies the Pythagorean Theorem to determine the side lengths of a right triangle.
- 8.6.E **Pythagorean Theorem and Pythagorean Triples:** The student applies the Pythagorean Theorem and Pythagorean Triples to find the area of a right triangle, given the side lengths of the triangle.
- 8.6.F **Pythagorean Theorem and Pythagorean Triples:** The student applies the Pythagorean Theorem and Pythagorean Triples to find the area of a right triangle, given the side lengths of the triangle.
- 8.6.G **Pythagorean Theorem and Pythagorean Triples:** The student applies the Pythagorean Theorem and Pythagorean Triples to find the area of a right triangle, given the side lengths of the triangle.
- 8.6.H **Pythagorean Theorem and Pythagorean Triples:** The student applies the Pythagorean Theorem and Pythagorean Triples to find the area of a right triangle, given the side lengths of the triangle.
- 8.6.I **Pythagorean Theorem and Pythagorean Triples:** The student applies the Pythagorean Theorem and Pythagorean Triples to find the area of a right triangle, given the side lengths of the triangle.

### Current ELAR and Math TEKS

#### Performance Indicator(s):

- **Students** will be able to identify right triangles and right angles within the Pythagorean Theorem and Pythagorean Triples. Students will be able to identify right triangles and find missing side lengths in right triangles. (8.6.B, 8.6.C, 8.6.D, 8.6.E, 8.6.F, 8.6.G, 8.6.H, 8.6.I)

#### Key Understandings and Clarifying Questions:

- The Pythagorean Theorem, its converse, and Pythagorean Triples can be used to identify right triangles and calculate the side lengths of these ratios.
  - Is it necessary to use the Pythagorean Theorem?
  - Is it true that the Pythagorean Theorem can be used to identify triangles by angles?
  - Are Pythagorean Triples the same as right triangles?

#### Vocabulary of Instruction

• Pythagorean Theorem	• Long of right triangle	• Pythagorean Triples
• right triangles	• Pythagorean	

#### Materials:

• transparent markers	• colored pencils	• grid paper
• grid paper		

# Geometry Systems Algebra 2 Hs Mathematics Unit 10

## Lesson 01

**Albert A Gayle**

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