MTH1W

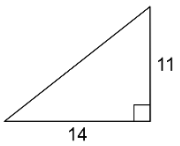
Math 9 – Unit 3: Solving Equations Name: _____

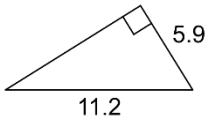
Lesson #3.5: Pythagorean Theorem Date: _____

Learning Goal: We are learning to use the Pythagorean Theorem to solve for missing sides in right-angled triangle.

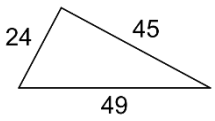
The infamous Pythagorean Theorem is essentially an equation. As long as we have enough information, we can use it to solve.

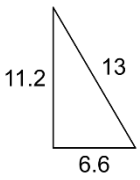
Part One: Given the following triangles, label the sides a, b, and c, then solve for the missing side.

1. 

2. 

Part Two: Given the following triangles, use the Pythagorean Theorem to prove whether or not the triangle is a right-angled triangle. First, label the sides.

1. 

2. 

Part Three: Read the question twice. Draw the situation (probably utilizing a right-angled triangle). Label the information that you know. Solve for the missing side. Write the answer to the question in the sentence.

1. A television screen is described in terms of the diagonal measure of its screen. If a TV screen is 20 inches wide and 15 inches high, what is the length of its diagonal (and hence, the size of the TV)?

Success Criteria:

- I can use the Pythagorean Theorem to solve for a missing side in a triangle.