

NAME: _____

P.I. A.A.45: Determine the measure of a third side of a right triangle using the Pythagorean theorem, given the lengths of any two sides.

1. Write a problem that involves finding the length of one side of a right triangle and uses any problem solving strategy. Include the solution.
2. Use the Pythagorean theorem to write a formula to find the length of the hypotenuse of a right triangle.
3. Is it possible for all three numbers in a Pythagorean triple to be even? odd?

Integrated Algebra Journal: Pythagoras #1

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Answers may vary. Sample: Tory ties a rope from the top of a 6 foot pole to a stake on the ground. If the

[1] stake is 5 feet from the bottom of the pole, how long is the rope? about 7.8 feet long

[2] $c = \sqrt{a^2 + b^2}$

[3] yes; no