

9.3 The Pythagorean Theorem

I can apply the Pythagorean Theorem to determine unknown side lengths of a right triangle.

Option One:

Watch the videos, take notes on the handout, and complete your homework choice.

1. Watch the videos and take notes. You will hand in the notes with your homework.
 - A. <http://www.virtualnerd.com/algebra-1/radical-expressions-equations/pythagorean-theorem-definition.php> What is the Pythagorean Theorem?
 - B. <http://www.virtualnerd.com/geometry/right-triangles-trigonometry/leg-length-right-triangle-solution.php> How do you find the length of a leg of a right triangle?
 - C. <http://www.virtualnerd.com/pre-algebra/real-numbers-right-triangles/right-triangle-determination-from-sides.php> How do you determine if a triangle is a right triangle if you know it's sides?
2. Homework Choice:
 - A. 9.3 Practice BOR
 - B. Record 8 problems for each topic on loose leaf for IXL topics O.1, O.2, and O.5 Please label each problem with a number and put all work on your looseleaf.

Option Two:

Teacher led explanation, takes notes, and complete your homework.

1. Teacher will teach lesson.
2. Homework Choice:
 - A. 9.3 Practice BOR
 - B. Record 8 problems for each topic on loose leaf for IXL topics O.1, O.2, and O.5 Please label each problem with a number and put all work on your looseleaf.

9.3 The Pythagorean Theorem - Notes

Video A: What is the Pythagorean Theorem?

<http://www.virtualnerd.com/algebra-1/radical-expressions-equations/pythagorean-theorem-definition.php>

Fill in the blanks and label the triangle:

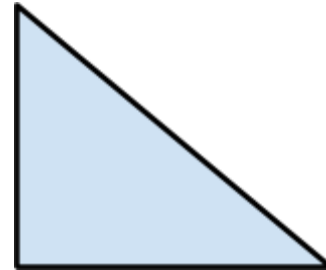
A right triangle has a _____ degree angle. Label on the triangle.

What is a leg of a right triangle? Label on triangle.

What's the hypotenuse of a right triangle? Label on triangle.

What's the Pythagorean Theorem?

Include the example worked on the video.



Drawing of right triangle with accurate labels:

Work with Pythagorean Theorem:

9.3 The Pythagorean Theorem - Notes

Video B: How do you find the length of a leg of a right triangle?

<http://www.virtualnerd.com/geometry/right-triangles-trigonometry/leg-length-right-triangle-solution.php>

Include the example worked in the video.

<u>Drawing of right triangle with accurate labels:</u> 	<u>Steps:</u> 1. Recall 2. _____ 3. Plug In 4. _____	<u>Work with Pythagorean Theorem:</u>
--	--	---

9.3 The Pythagorean Theorem - Notes

Video C: How do you determine if a triangle is a right triangle if you know it's sides?

<http://www.virtualnerd.com/pre-algebra/real-numbers-right-triangles/right-triangle-determination-from-sides.php>

Include the example worked in the video.

<u>Drawing of triangle given:</u> 	<u>Steps:</u> 5. Recall 6. _____ 7. Plug In 8. _____	<u>Work with Pythagorean Theorem:</u>
---	--	---

Was the example a right triangle? Justify your reasoning.

IXL Homework Option: Record 8 problems for each topic on loose leaf for topics O.1, O.2, and O.5 Please label each problem with a number and put all work on your looseleaf.

IXL Homework Option: Record 8 problems for each topic on loose leaf for topics O.1, O.2, and O.5 Please label each problem with a number and put all work on your looseleaf.

IXL Homework Option: Record 8 problems for each topic on loose leaf for topics O.1, O.2, and O.5 Please label each problem with a number and put all work on your looseleaf.

IXL Homework Option: Record 8 problems for each topic on loose leaf for topics O.1, O.2, and O.5 Please label each problem with a number and put all work on your looseleaf.