

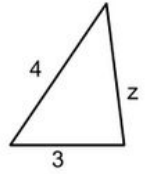
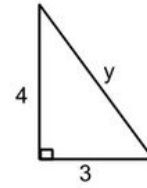
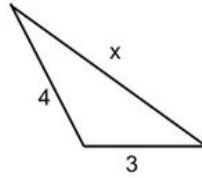
Lesson 2.4.1: Pythagorean Theorem Review

Targets:

1. I can find the missing length of a side of a right triangle.
2. I can identify Pythagorean Triples.

Warm Up

- Which side length can we find (x , y , or z)?
- Why can we find the missing side length of only that triangle?



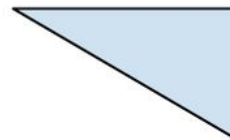
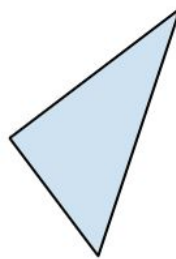
Vocabulary

Watch the video and take notes here:

1. Pythagorean Theorem:
2. Legs of a Triangle:
3. Hypotenuse:

Identify the Hypotenuse

On each triangle label each side as a , b , or c .
Make sure to label the hypotenuse of each triangle as c .



Pythagorean Triples

Watch the video and answer the following questions:

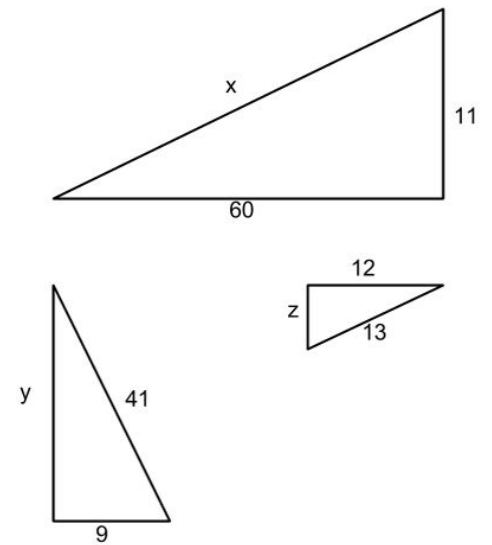
- What is a Pythagorean Triple?
- Give two examples of Pythagorean Triples:

Pythagorean Triples: Part 2

Show that 8 - 15 - 17 is a Pythagorean Triple. Then scale it up to find 3 more sets of Pythagorean Triples.

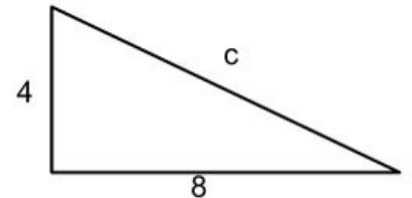
Finding Missing Lengths

Use the Pythagorean Theorem to find the missing side lengths (x , y , and z).



Not a Pythagorean Triple

What if the right triangle is not a Pythagorean Triple? Try to find the missing side length. What do you think an appropriate answer would be for this particular side length?



Exit Ticket

Your exit ticket for this lesson is to work through the 3 online activities (the links are on my website). Work on each activity until you get at least 3 right in a row. When you have worked through all three activities with 3 right in a row on all of them, show me your awesome work.