THE PYTHAGOREAN THEOREM LEARNING GOAL

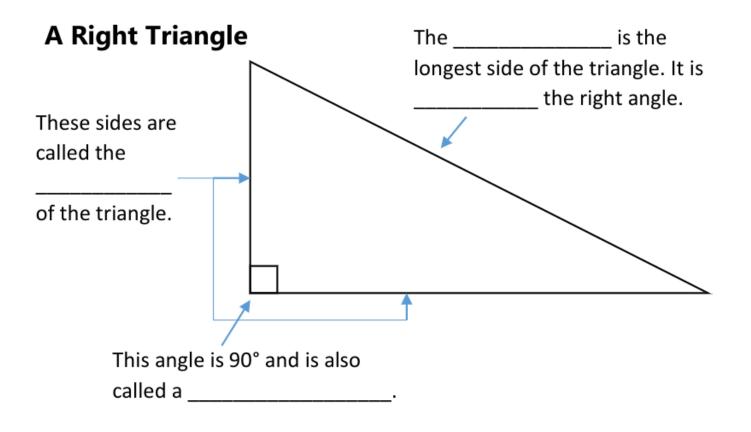
- 1. I can use the pythagorean theorem $a^2+b^2=c^2$ to find the lengths of the hypotenuse of a right triangle, given the two legs.
- 2. I can use the pythagorean theorem $a^2+b^2=c^2$ to find one of the lengths of a right triangle, given the hypotenuse and one of the legs.

RESPOND TO FEEDBACK ON YOUR WORK

Directions: If you have a Schoology message from Mr. Durden about a previous assignment, choose one question and answer it in the space below. (If the feedback just says that you did a nice job, you do not have to do anything here).

VOCABULARY REVIEW

Directions: Fill in each blank for the right triangle by using the words in the word list.

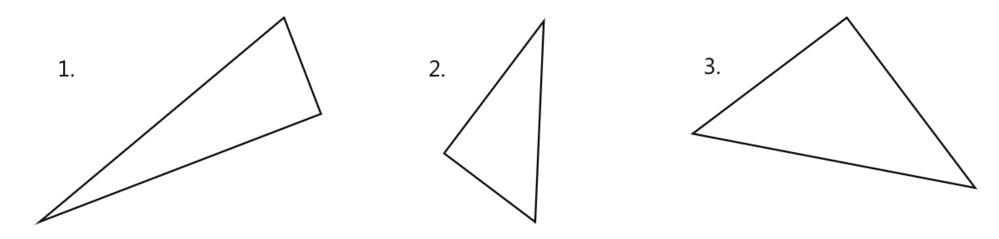


WORD LIST

- Hypotenuse
- Legs
- Right Angle
- Opposite

QUICK PRACTICE

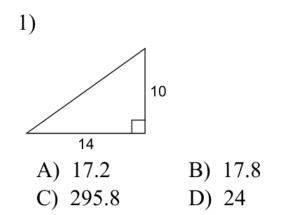
Directions: Label the hypotenuse with an "H" on each of the right triangles below.

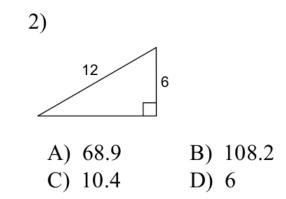


In the exercise above, how did you know which side of the triangle the hypotenuse was?

EXAMPLES

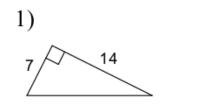
Find each missing length to the nearest tenth.





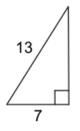
EXERCISES

Find each missing length to the nearest tenth.



- A) 246.5
- B) 13.3
- C) 15.7 D) 21



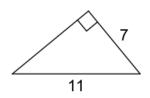


- A) 10.7
- C) 6

- B) 12.5
- D) 11

Find each missing length to the nearest tenth.

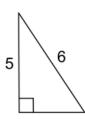
3)



- A) 72.3
- C) 8.5

- B) 4
- D) 6.4

4)



- A) 2.1
- C) 1

- B) 10.9
- D) 3.3

ANSWERS TO EXERCISES

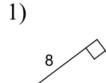
Check your answers. Go back and review the video for this lesson if you need help.

- 1. C
- 2. D
- 3. C
- 4. D

LEARNING CHECK

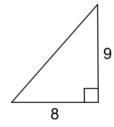
Directions: Show your work for each problem below. When you finish 1-4, enter your answers into the Pythagorean Theorem Learning Check on Schoology.

Find each missing length to the nearest tenth.



- A) 100
- B) 10
- C) 10.6
- D) 14

2)



- A) 198.8
- C) 17

- B) 12
- D) 144

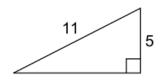
Find each missing length to the nearest tenth.



- A) 153.8
- C) 12.4

- B) 161.3
- D) 9





- A) 96
- B) 9.8
- C) 11
- D) 6