

SECTION 9.1: PYTHAGOREAN THEOREM AND ITS CONVERSE

Homework: _____

Learning Targets:

- 9a. Understanding when to use Pythagorean Theorem and geometric mean.
- 9b. Understanding of how to find missing measures using Pythagorean Theorem and geometric mean.

Pythagorean Theorem: _____

Pythagorean Triples: sides of a right triangle with no _____

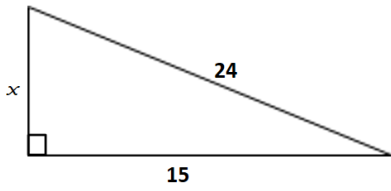
Common Triples

Pythagorean Theorem Converse: The Pythagorean Theorem can be used to determine the _____ of triangle formed by the given side measures.

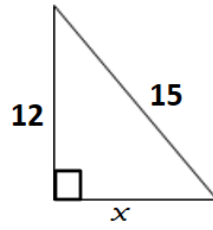
| Acute Triangle | Right Triangle | Obtuse Triangle |
|----------------|----------------|-----------------|
| | | |

Solve for x .

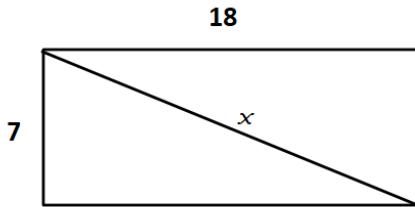
1.



2.



3.



Determine if the given measures form a triangle. If they do, determine if the triangle is acute, right, or obtuse.

4. 7, 10, 15

5. 10, 8, 5

6. 5, 7, 13

7. 12, 16, 20

8. 4.5, 4.5, 8