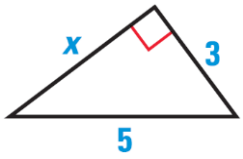
Geometry

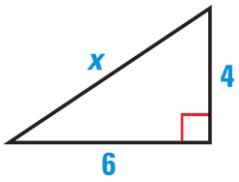
9.1 The Pythagorean Theorem

Pythagorean Theorem

In a _____ triangle, _____ where *a* and *b* are the length of the _____ and *c* is the length of the _____.

Find the value of x





Pythagorean Triples

A set of _____ positive integers that satisfy the _____ Theorem

_____ _____ _____ _____

Converse of the Pythagorean Theorem

If _____ where *a* and *b* are the length of the _____ sides and *c* is the length of the _____ side, then it is a _____ triangle.

Tell whether a triangle with the given sides is a right triangle.

4, $4\sqrt{3}$, 8

If c is the _____ side and…

$c^2 < a^2 + b^2$ → _____ triangle

$c^2 = a^2 + b^2$ → _____ triangle

$c^2 > a^2 + b^2$ → _____ triangle

Show that the segments with lengths 3, 4, and 6 can form a triangle

Classify the triangle as *acute*, *right* or *obtuse*.

Assignment: 452 #2, 4, 6, 7, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 43, 45, 48, 49, 53 = 20 total