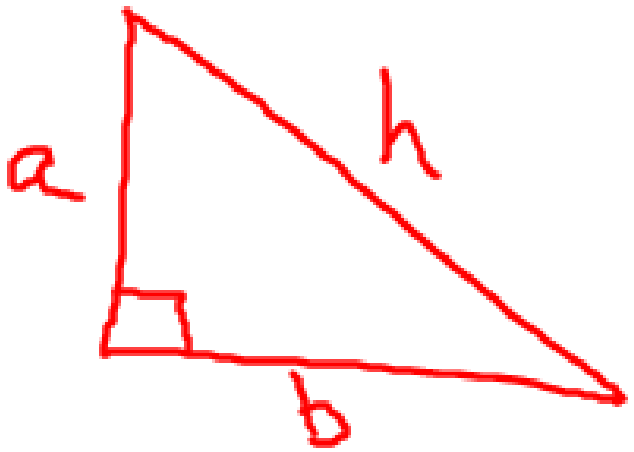
$\sqrt{\text{area}} = \text{side length}$

$(\text{side length})^2 = \text{area}$

Perimeter of a square = side length $\times 4$

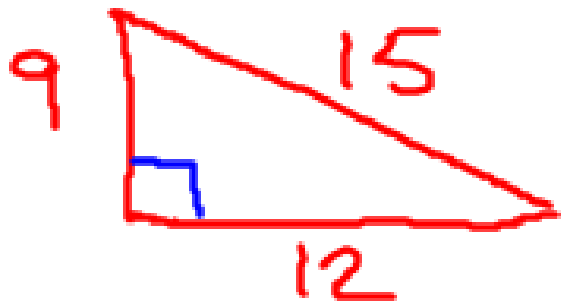
Pythagorean Theorem



$$a^2 + b^2 = h^2$$

Determine whether each triangle with sides of given lengths is a right triangle.

9 cm, 12 cm, 15 cm



$a^2 + b^2 = c^2$

$9^2 + 12^2 = 15^2$

$81 + 144 = 225$

$225 = 225$ ✓

yes it is a right angle

7 m, 9 m, 13 m

$a^2 + b^2 = c^2$

$7^2 + 9^2 = 13^2$

$49 + 81 = 169$

$130 = 169$ ✗

No it is NOT a right triangle