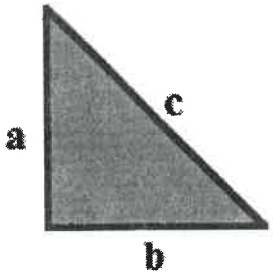
Date 2/26

Intro to Pythagorean Theorem NOTES

The Pythagorean Theorem: $a^2+b^2=c^2$



A. **only works in** RIGHT **triangles.**

B. **Sides a and b are called** legs.

C. **Side c is called the** hypotenuse.

*It is the longest **side of the triangle.**

Proof:

1. What is the area of the square based on side a if a = 3?

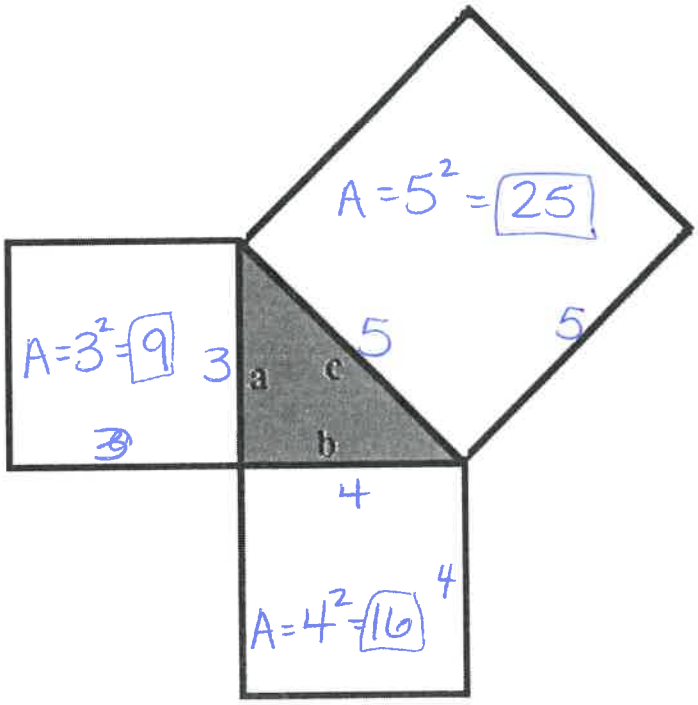
A = 9 sq. units

2. What is the area of the square based on side b if b = 4?

A = 16 sq. units

3. What is the area of the square based on side c if c = 5?

A = 25 sq. units



9 + 16 = 25 ✓

legs² = hyp.²

The ***Pythagorean Theorem*** is

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