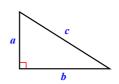
## Pythagorean Theorem

## Pythagorean Theorem

In a right triangle, the square of the length of the hypotenuse is equal to the sum of the squares of the lengths of the legs.



 $(hypotenuse)^2 = (leg)^2 + (leg)^2$ 

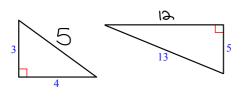
$$c^2 = a^2 + b^2$$

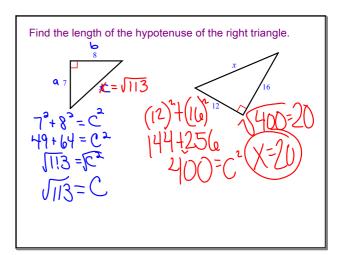
title

pythagorean thm

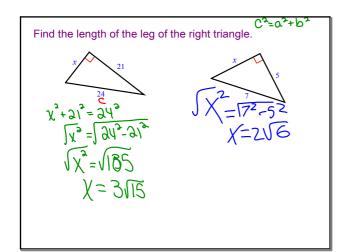
Pythagorean triple—a set of three positive integers a, b, and c that satisfy the equation  $c^2 = a^2 + b^2$ 

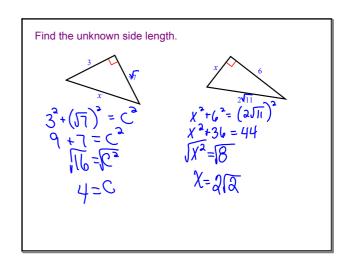
- > Examples: 3, 4, 5 and 5, 12, 13
- > NO decimals, fractions, or radicals.



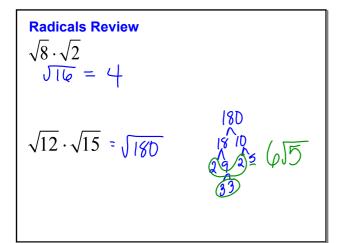


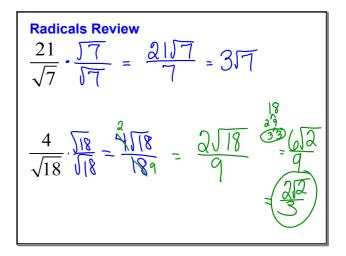
pythagorean triples





examples examples





radicals radicals

## Conclusion

1. What is the Pythagorean Theorem?

a2+b2=c2 c is hypotenuse

- 2. How do you know which side is the hypotenuse? Row from Right Profe
- 3. Questions????

## **Assignment**

Pythagorean Theorem Worksheet

Nov 11-9:20 AM Nov 11-11:05 AM