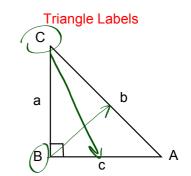
## 7-1 Solving for Sides of a Triangle

## Objectives:

- 1. I can set up and solve a trig ratio
- 2. I can set up and solve pythagorean theorem



**Upper Case= Angles** 

Lower Case= Sides

The side is always opposite the angle

Feb 26-11:19 AM

Feb 26-11:20 AM

We can solve for the sides of a triangle by:

- Trigonometric Ratio

sinA

cosA

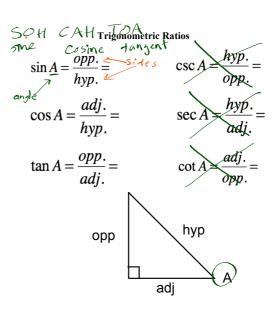
tanA

Pythagorean Theorem

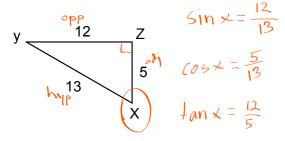
$$a^2 + b^2 = c^2$$

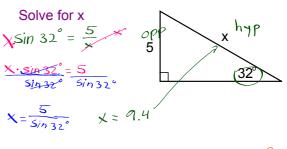
$$|eg^2 + leg^2 = hyp^2$$

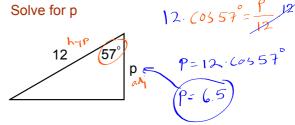




## Find all trig ratios for X

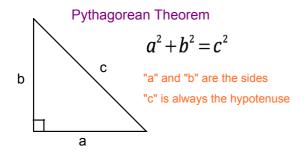






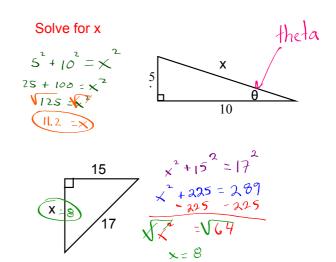
Feb 26-11:54 AM

Jan 26-2:26 PM



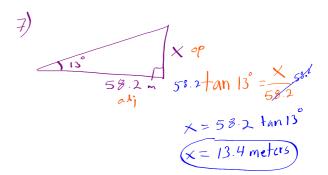
\*Can only use when there is 1 missing side.

\*If there are 2 missing sides, then use a trig ratio\*



Jan 17-7:27 PM Dec 16-9:30 AM

Standing 12ft from a tree you must look up at 43° to see the top of the tree. How tall is the tree?



Dec 16-9:39 AM

Feb 1-9:32 AM