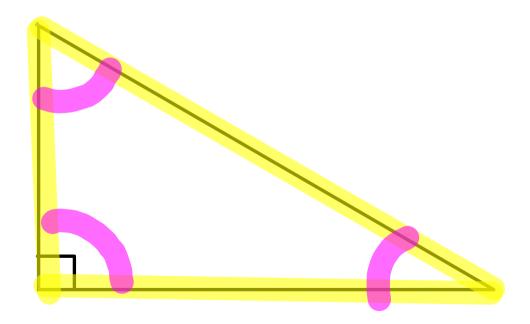
## TODAY'S AGENDA: Week of April 16-22

- Work on Khan Academy Mission:
- Whole Class Lesson
- Today's Objective:
- Trigonometric Ratios in Right Triangles
- Standards:
- G.SRT.C.8:
- Use sine, cosine, tangent, the Pythagorean Theorem and properties of special right triangles to solve right triangles in applied problems.

## Trigonometric Ratios: SOH CAH TOA

- We use trig ratios to find:
  - 1. The lengths of sides in right triangles
  - 2. The measure of an angle in a right triangle



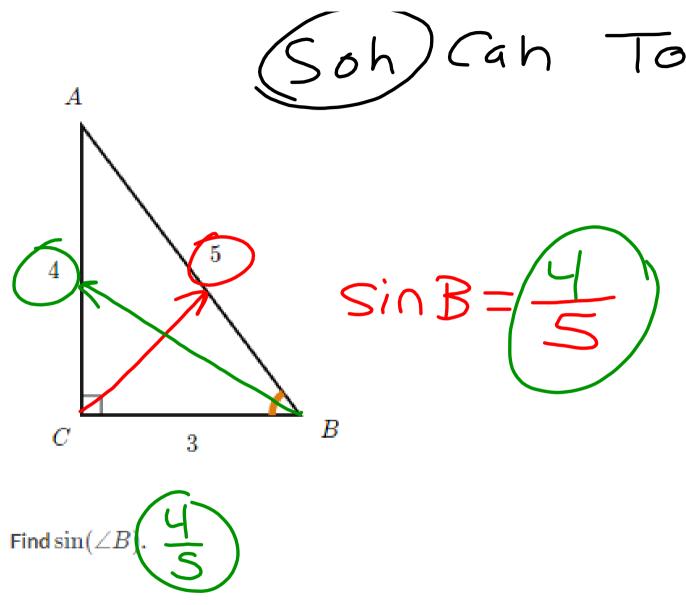
SOH CAH TOA:

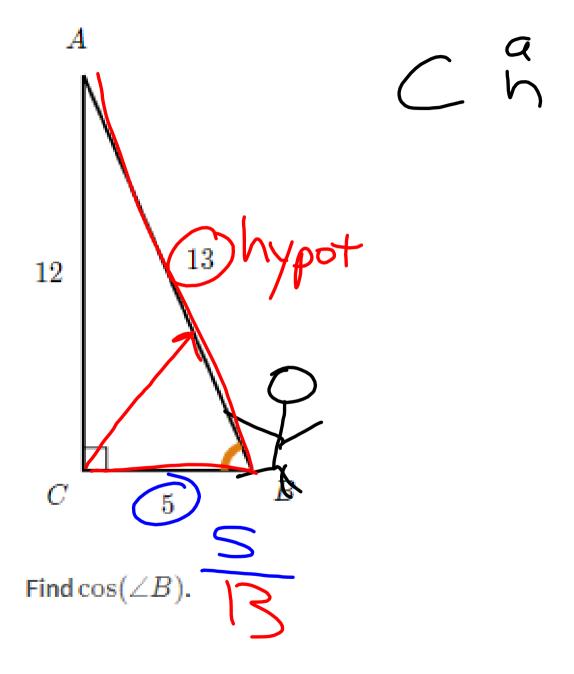
What do you have? What are you looking for?

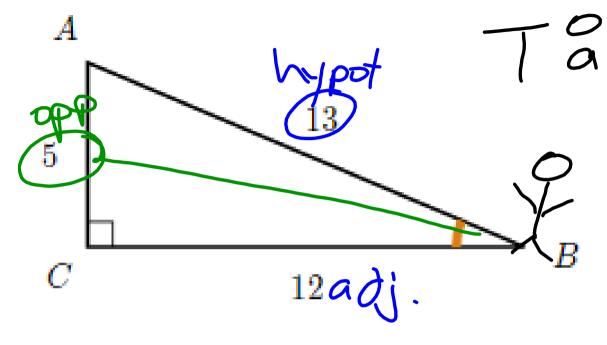
SINe: Opposite
hypotenuse

COSine: adjacent
hypotenuse

TANgent: Opposite 3



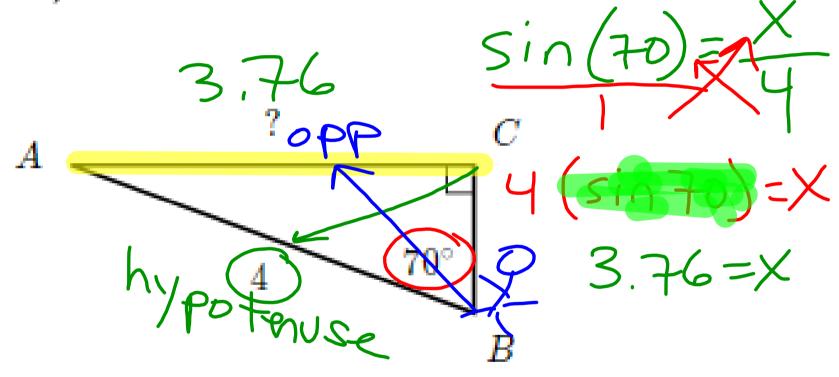




Find 
$$tan(\angle B)$$
.  $\frac{5}{2}$ 

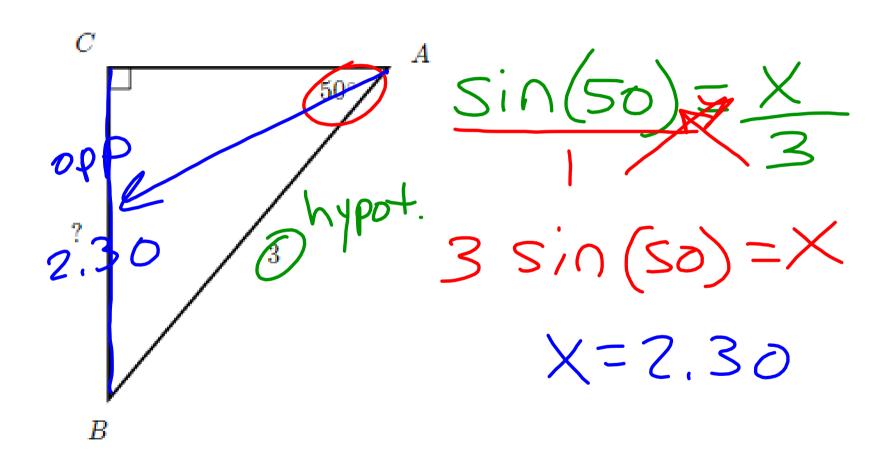
$$AC =$$





$$BC =$$





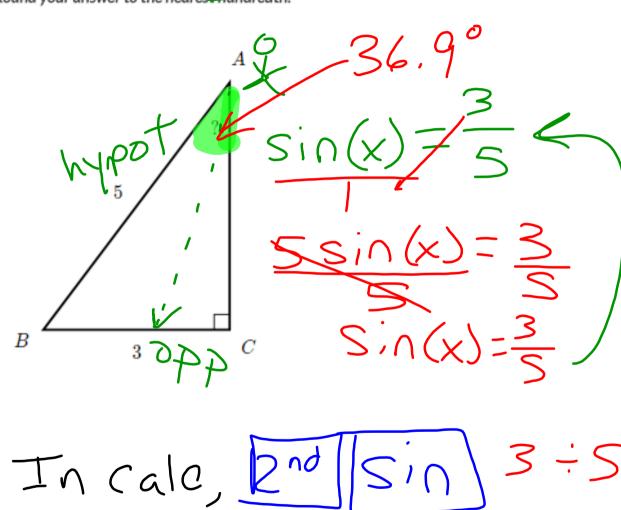
$$BC = SH(CH.)TG$$

4. Gay, c cent 
$$9_B$$

Cos (35) =  $\chi$ 

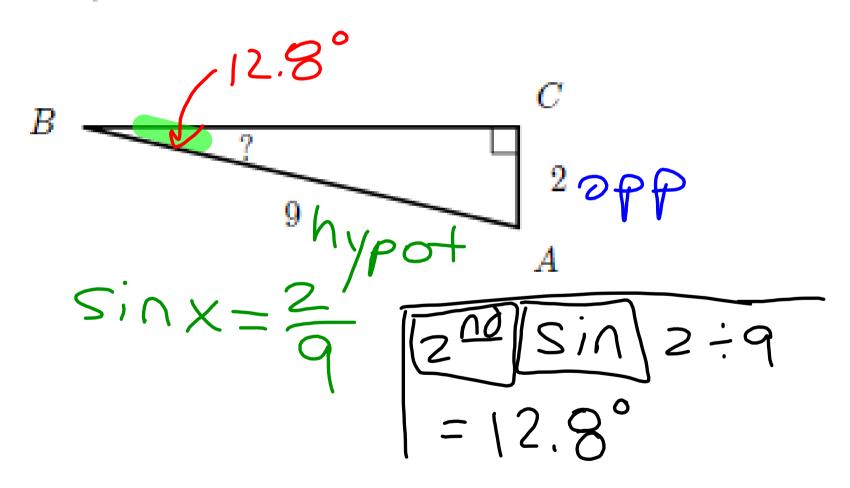
A  $\chi = 4.9$ 





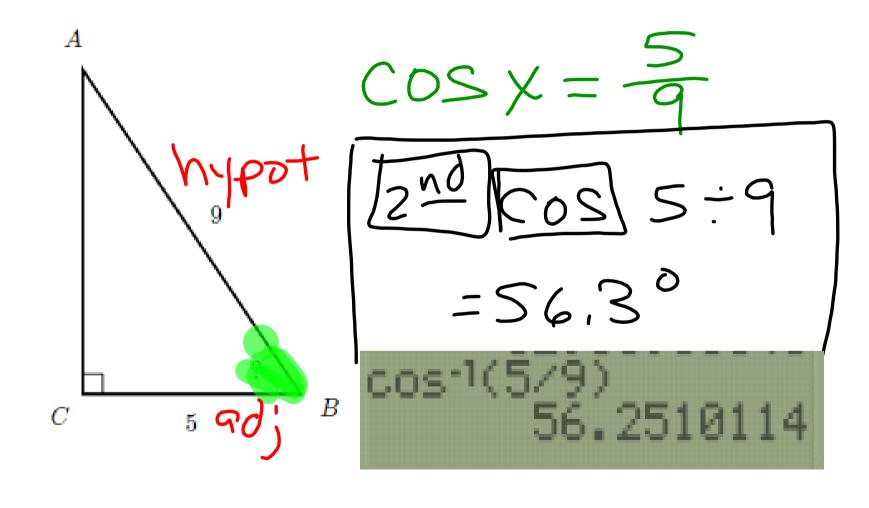
$$\frac{5}{5} = \frac{3}{5}$$

$$5 = \frac{3}{5}$$



$$\angle B = \bigcirc^{\circ}$$

SH(CH) Ta



## Skills You Should Be Working on:

- 1. Trigonometric ratios in right triangles
- 2. Solve for side in a right triangle
- 3. Solve for an angle in a right triangle
- 4. Right triangle word problems