

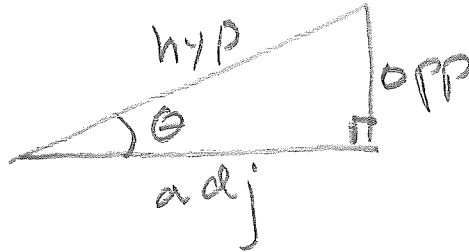
Algebra II Tues, March 8, 2022

Solving Right 4's

$$\sin \theta = \frac{\text{opp}}{\text{hyp}}$$

$$\cos \theta = \frac{\text{adj}}{\text{hyp}}$$

$$\tan \theta = \frac{\text{opp}}{\text{adj}}$$



Write 3 things for each problem side

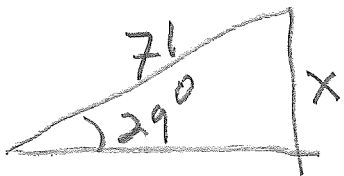
① trig function (angle) = $\frac{\text{side}}{\text{hyp}}$ one side is given
one side is x

(2) Solve for x

③ Plug into calculator
(3 decimal places)

you MUST
write all 3 things.

Example 1



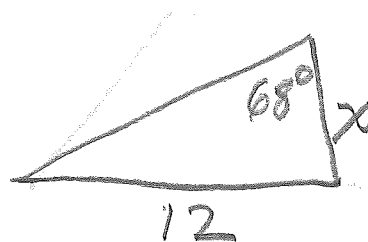
Green opp and hyp,
use sine

$$\textcircled{1} \sin 29^\circ = \frac{x}{71}$$

(2) $x = 71 \cdot \sin 29^\circ$

(3) $x = 34.421$

Example 2



Given opp and adj: use tan

$$\textcircled{1} \tan 68^\circ = \frac{12}{x}$$

$$x = \frac{12}{\tan 66^\circ}$$

③ $x = 4.848$