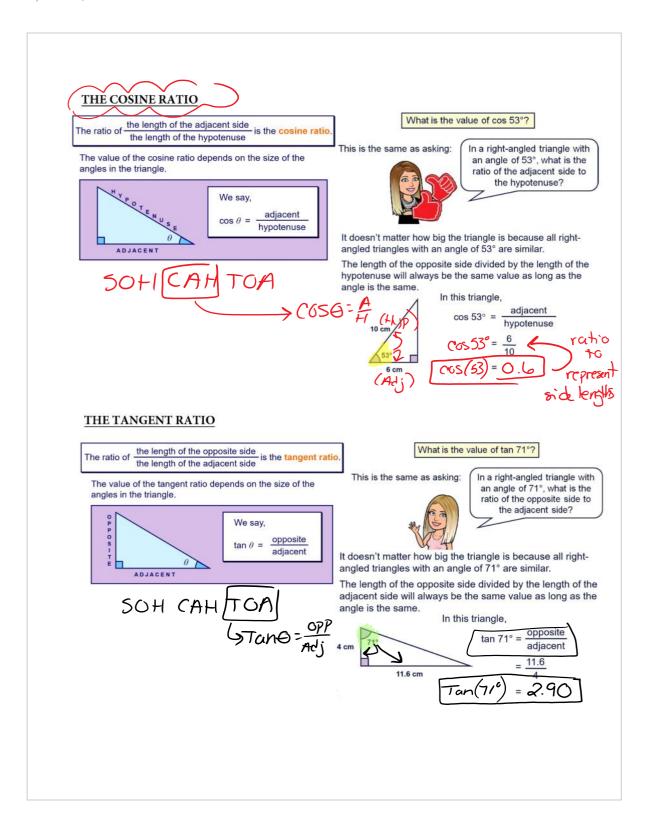
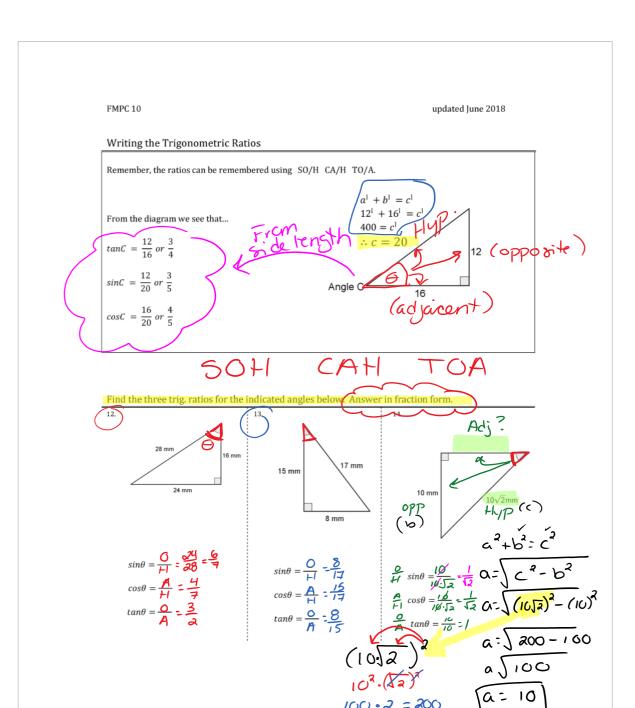
### 2-3 Trig Ratios & Finding Side Length

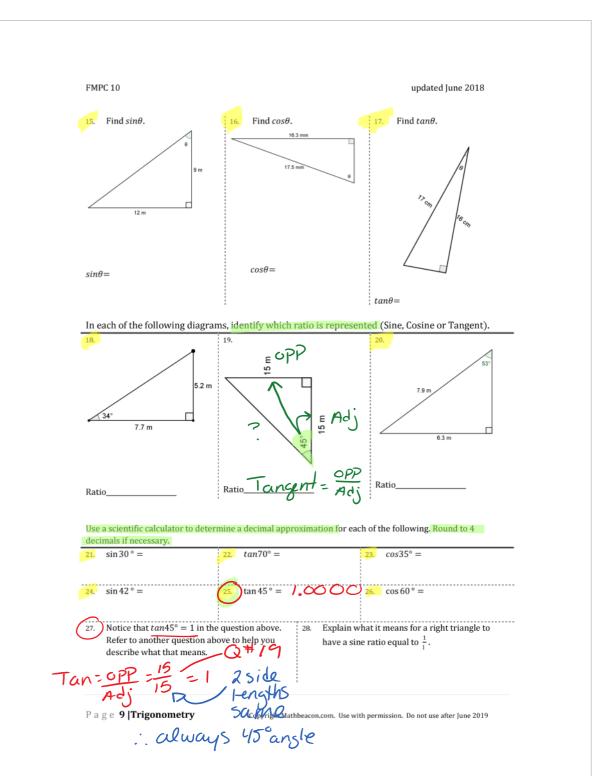
September 24, 2018 9:20 PM

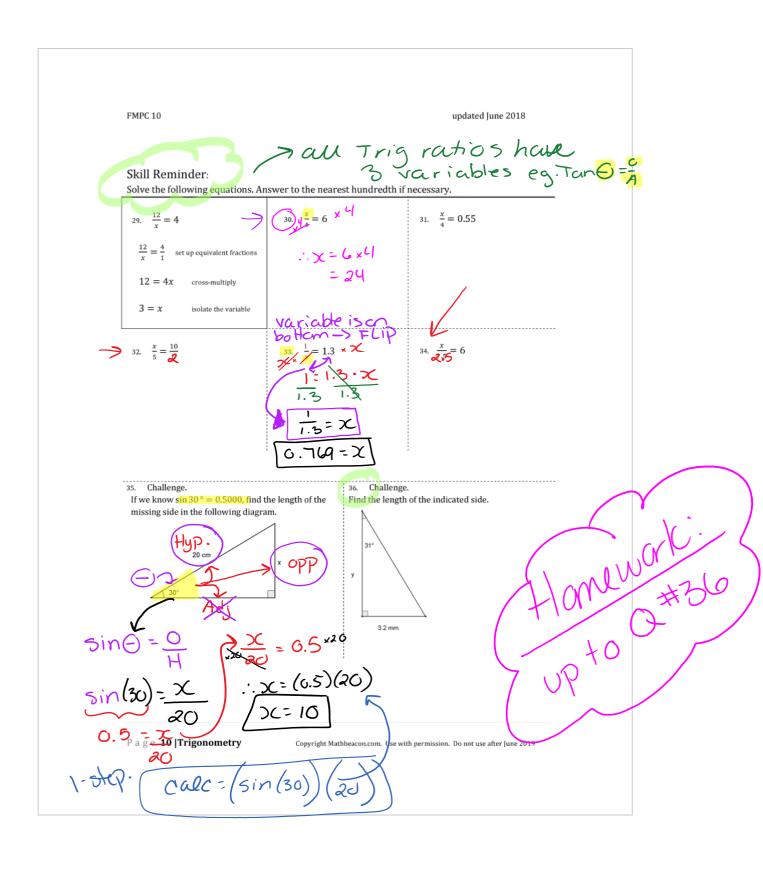




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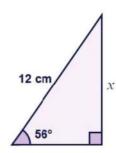


## Finding Side Length Using Trigonometry

If we are given \_\_\_\_\_ and \_\_\_\_ in a right-angled triangle we can use one of the three trigonometric ratios to find the lengths of other sides.

For example,

# Find x to 2 decimal places.



We are given the \_\_\_\_\_ and we want to find the length of the side \_\_\_\_\_ the angle, so we use:

#### Example 2:

A 5 m ladder is resting against a wall. It makes an angle of 70° with the ground.

5 m al

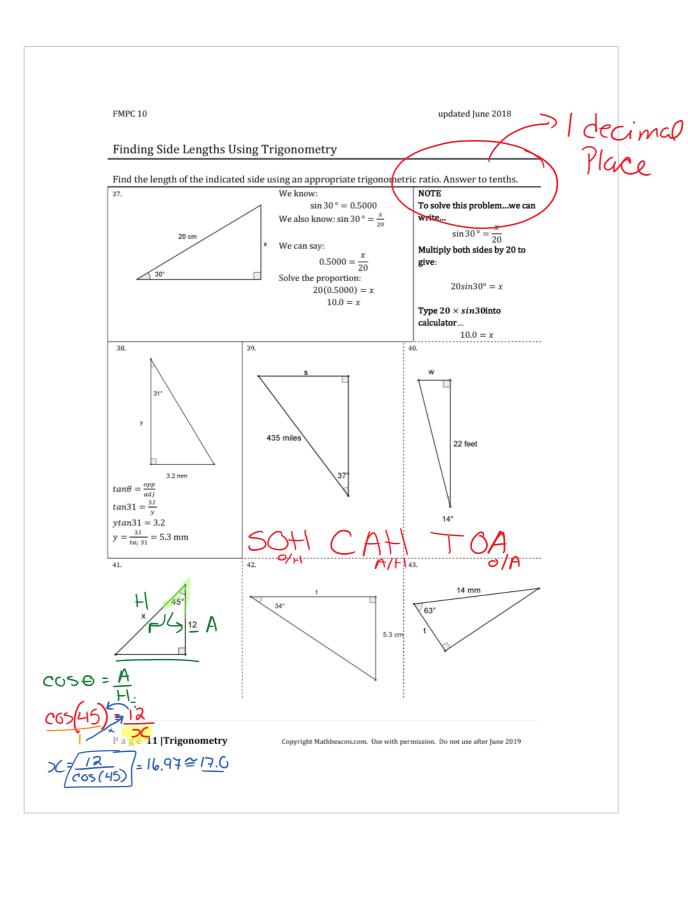
What is the distance between the base of the ladder and the wall?

We are given the \_\_\_\_\_ and we want to find the length of the side \_\_\_\_\_ to the angle, so we use:

$$\theta = \frac{\text{adjacent}}{\text{hypotenuse}}$$

$$70^{\circ} = \boxed{}$$

$$x = \boxed{}$$

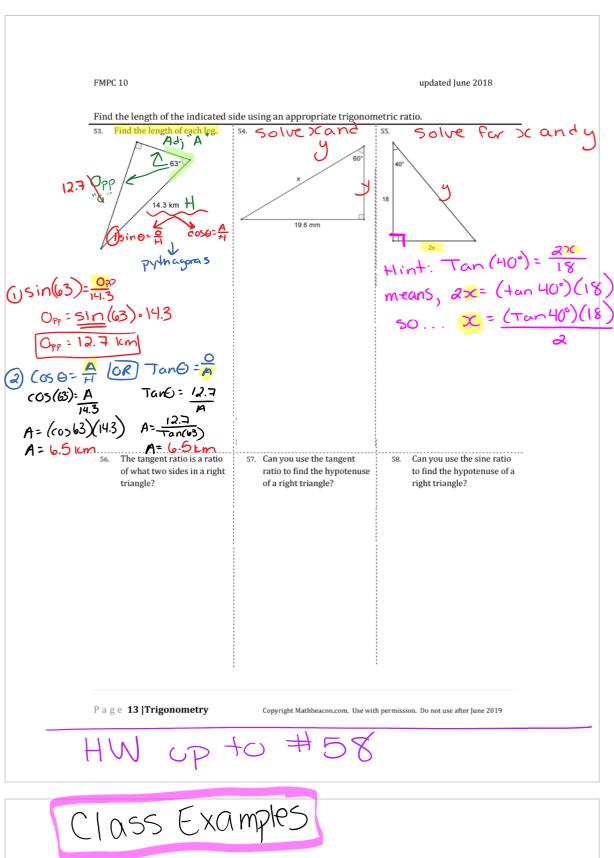


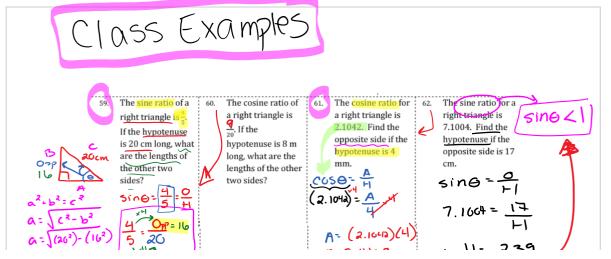


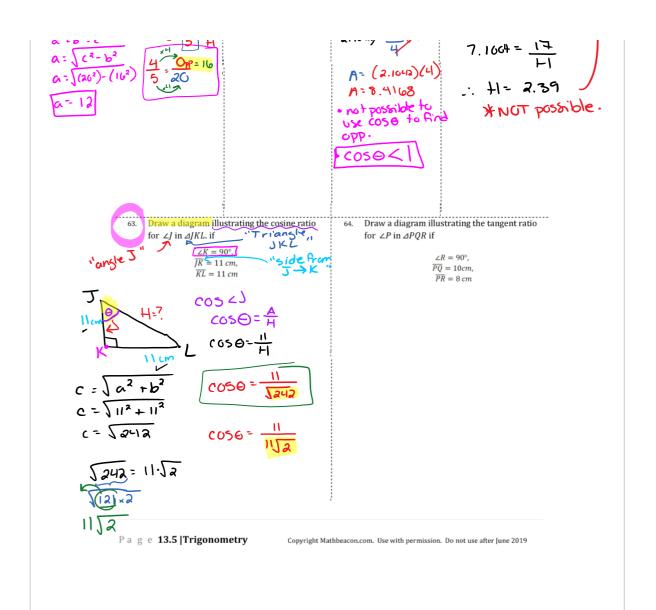
FMPC 10 updated June 2018

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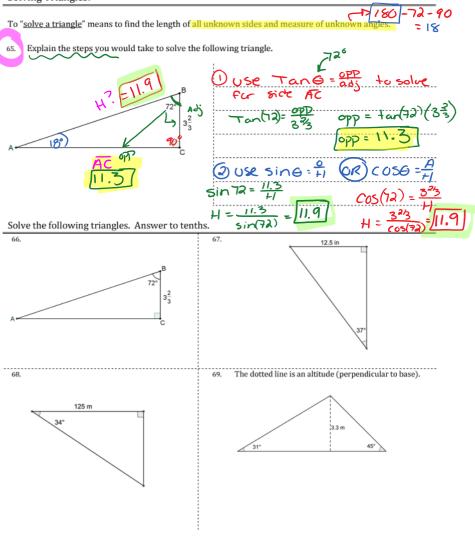






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### Solving Triangles:



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