

WarmUp

Find the missing sides.

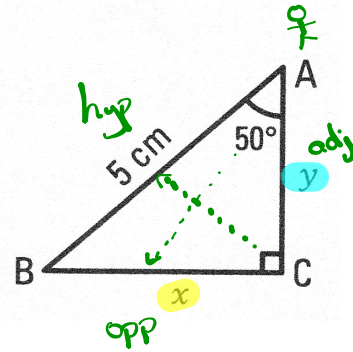
Soh Cah Toa

$$\textcircled{1} \frac{\sin(50^\circ)}{1} = \frac{x}{5} \quad x = 3.93$$

$$\frac{0.76604}{1} = \frac{x}{5}$$

$$\textcircled{2} \frac{\cos(50^\circ)}{1} = \frac{y}{5} \quad y = 3.21$$

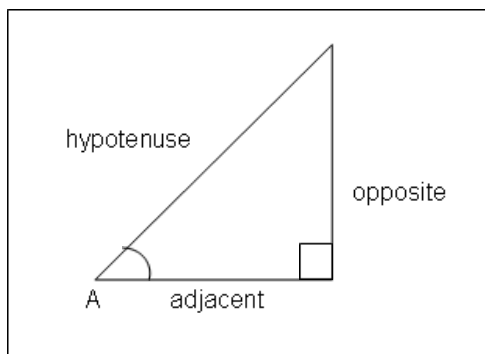
$$\sin(90^\circ) = 1$$



Apr 17-9:28 AM

Trigonometric Ratios in a Right Δ

soh cah toa



$$\underline{\sin}A = \frac{\underline{opp}}{\underline{hyp}}$$

$$\underline{\cos}A = \frac{\underline{adj}}{\underline{hyp}}$$

$$\underline{\tan}A = \frac{\underline{opp}}{\underline{adj}}$$

May 3-11:52 AM

Example 1:

1) Find x

2) Find y

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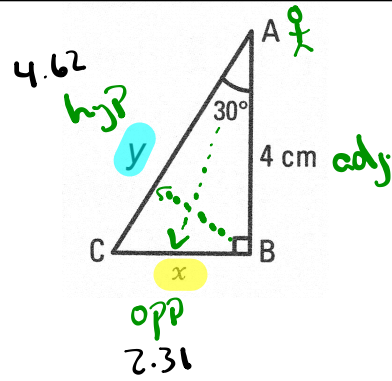
$$1) \frac{\tan(30^\circ)}{1} = \frac{x}{4}$$

$$x = 2.31$$

$$2) \frac{\cos(30^\circ)}{1} = \frac{4}{y}$$

$$\frac{\cos(30^\circ)y}{\cos(30^\circ)} = \frac{4}{\cos(30^\circ)}$$

$$y = 4.62$$



30-60-90
Side opposite 30° = $\frac{\text{Hyp}}{2}$

May 3-1:10 PM

Finding Missing Angles using Trig Ratios

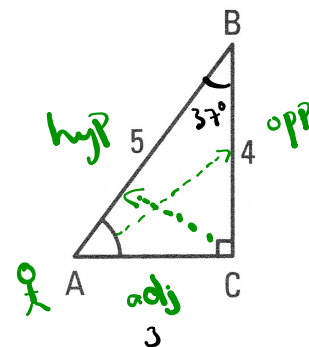
Example 1:

1) Find the measure of angle BAC

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$$\sin^{-1}\left(\sin x\right) = \left(\frac{4}{5}\right)$$

$$x = \sin^{-1}\left(\frac{4}{5}\right) = 53^\circ$$



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May 3-1:09 PM

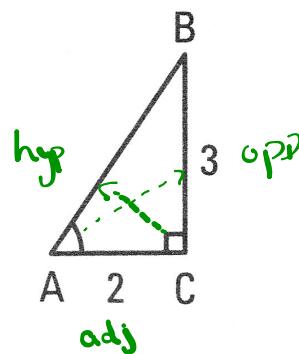
Example 2:

1) Find the measure of angle BAC

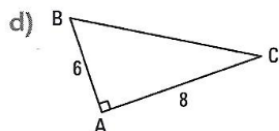
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$$\tan x = \frac{3}{2}$$

$$x = \tan^{-1}\left(\frac{3}{2}\right) =$$

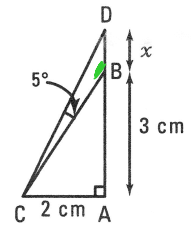


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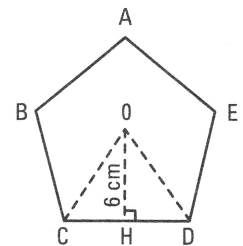
May 7-10:26 AM

12. Using the figure on the right, determine x .



May 8-9:37 AM

17. What is the area (rounded to the nearest tenth) of a regular pentagon with an apothem equal to 6 cm?



May 8-10:33 AM

Homework

Textbook #2

P. 85 #2

P. 96 #3-5

P. 97 #6-8

Apr 17-12:11 PM