

Quiz 8.2
Find all 3 trig functions from angle A. (sin, cos, tan)

$\sin A = \frac{a}{c}$
 $\cos A = \frac{b}{c}$ opp
 $\tan A = \frac{a}{b}$

Feb 1-10:00 AM

8-2 Similarity and Trig Ratios

I can write trig ratios for a right triangle. (sin,cos,tan)
I can use trig ratios to solve problems.

Oct 28-9:33 AM

Writing Trig Ratios Task

Oct 28-9:41 AM

$5^2 + 10^2 = c^2$
 $25 + 100 = c^2$
 $c^2 = 125$
 $c = 5\sqrt{5}$

Find all trig ratios for the given triangle:

$\sin \theta = \frac{5}{5\sqrt{5}}$ $\cos \theta = \frac{10}{5\sqrt{5}}$ $\tan \theta = \frac{5}{10}$

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solve for x

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

$(\sin 32^\circ) = \frac{5}{x}$
 $x \cdot (\sin 32^\circ) = 5$
 $x = \frac{5}{\sin 32^\circ}$

$x = 9.4$

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Solve for p

$\tan 57^\circ = \frac{12}{p}$

$p \cdot (\tan 57^\circ) = 12$

$p = 7.8$

$\sin 57^\circ = \frac{12}{m}$

$m = \frac{12}{\sin 57^\circ}$

$m = 14.3$

$p = 7.8$

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

$\tan 43^\circ = \frac{X}{12}$

$12 \cdot (\tan 43^\circ) = X$

$X = 11.2 \text{ ft}$

Dec 16-9:39 AM

A bird sitting on a 30' tower looks at a boat from an angle of depression of 55.5° . How far is the boat from the tower?

$\tan 34.5^\circ = \frac{X}{30}$

$X = 30 \cdot (\tan 34.5)$

$X = 20.6 \text{ ft}$

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~~more story prob (harder)~~

Jan 26-2:22 PM

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Feb 9-2:32 PM