Ch 10.5 Sine and Cosine Functions

Sine Ratio:

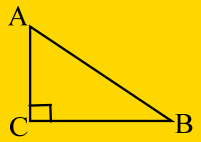
$\sin A = \frac{\text{leg } \underline{\textbf{opposite}} \angle A}{\textbf{hypotenuse}}$

Cosine Ratio:

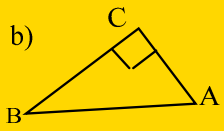
$\cos A = \frac{\text{leg } \underline{\textbf{adjacent}} \angle A}{\textbf{hypotenuse}}$

Ex1)Determine the opposite, adjacent, and hypotenuse sides for <A.

a)



b)



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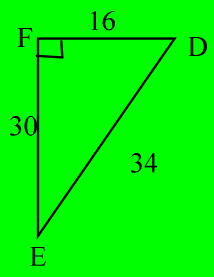
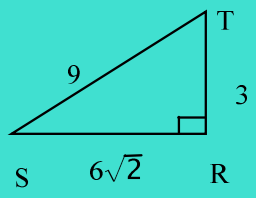
Ex2a) Find the sine and cosine functions of <D and <E as fractions.



Apr 14-8:58 AM

Ex2b) Find the sine and cosine functions for <S and <T. ***round to the nearest ten thousandth***



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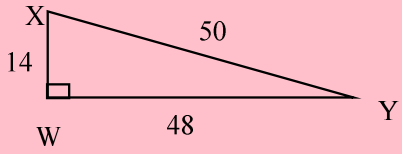
Try #1. Find the sine and cosine functions for X and Y. round to the nearest ten thousandth.



Apr 14-9:03 AM

Ex3) Use a calculator to find the value. Round to the nearest ten thousandth.

a) $\sin 10^0$

b) $\cos 34^0$

c) $\sin 57^0$

d) $\cos -15^0$

Try #2) $\sin 23^0$

Try #3) $\cos 115^0$

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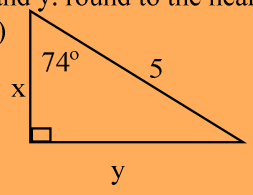
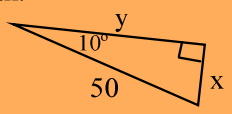
Ex4) Use the sine or cosine function(s) to find x and y. round to the nearest tenth.

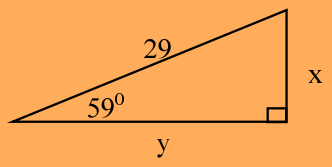
a)



b)

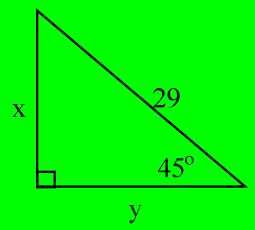


c)



Apr 14-9:14 AM

Try#4.



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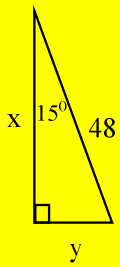
Try #5



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