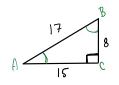
Sine & Cosine Ratio intro

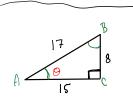
Thursday, November 10, 2016 8:40 AM



The Sine ratio is 0.47 label the sides. Theta is not given

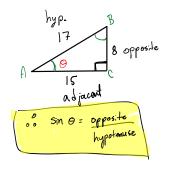
 $\sin \Theta = 0.47$

Hint** Which numbers divide to give you 0.47?



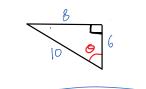
 $\sin \Theta = 0.47$ Which numbers divide to give you 0.47? In this case it is 8/17 $T \cap \Theta$ is a redevence then the follows

If O is a reference, then the following triangle will be labelled like the triangle below





Given the values below what is the Sine Ratio?



 $sin\Theta = Opp.$ hyp. $Sin\Theta = \frac{8}{ID}$ $Sin\Theta = 0.8$

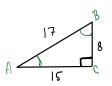
Given the sine ratio above, what is angle theta?

Given an angle, determine the Sine Ratio

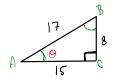
1) $\sin(1^{\circ} =) ?? \rightarrow 0.19$ 2) $\sin 54^{\circ} = 82 \rightarrow 0.86$ 3) $\sin 86^{\circ} = 97^{\circ} \rightarrow 0.99$

Given a ratio determine the angle

1) $\sin \Theta = 0.1372 = 8^{\circ}$ 2) $\sin \Theta = 0.3991 = 24^{\circ}$ 3) $\sin \Theta = 0.8003 = 53^{\circ}$

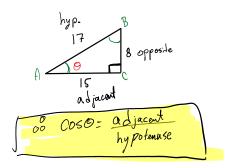


The Cosine ratio is 0.88 label the sides. Theta is not given



COSO = 0.88Which numbers divide to give you 0.88? In this case it is 15/17 TO O is a farmer than the fallers

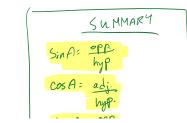
If O is a reference, then the following triangle will be lobelled like the triangle below



TRY !!!

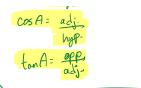
Given the angle, what is the cosine ratio?

1) $\cos 17^{\circ} = 0.96$ 2) $\cos 49^{\circ} = 0.66$ 3) $\cos 80^{\circ} = 0.17$



Trig Page 2

3) COS 60° = 0.17 byp. ton A = off adj.



Given the ratio, determine the angle to the nearest degree

Feedback and ticket out the door. On the post-it-note, answer the following question

- 1. What is one thing you understood? (be specific)
- 2. What is one thing you did not understand? (be specific)

 $HW \longrightarrow P_g 95 \# 4, 5, 6, 7, 8, 10$