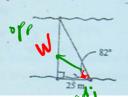
Homework Questions

to expressed to one decimal place.

10.8 #2 #1 Soit AH (

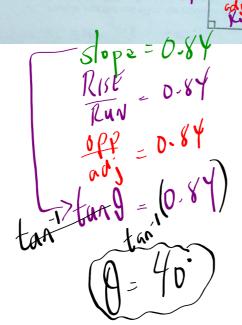
1 To measure the width of a swamp the following measurements are noted on the diagram. What is the width of the



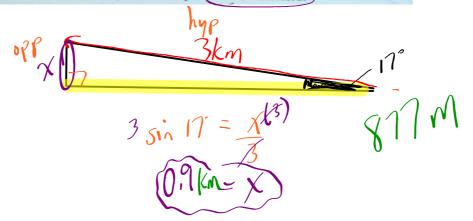
slope = 0.84

2 The slope of a ski hill is 0.84. Find the angle that the hill makes with the horizontal.

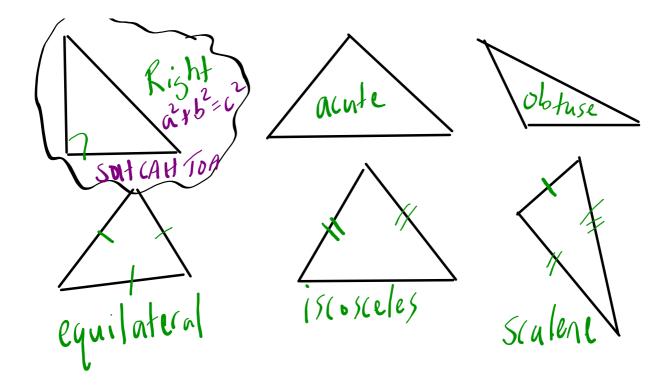




A mountain road is inclined at 17° to the horizontal. If you travel 3 km up the road, by how many metres has your altitude increased?



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## Law of Sines

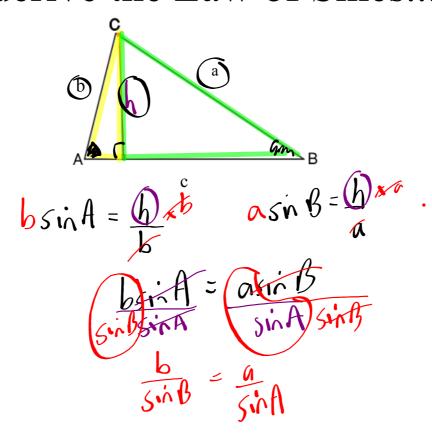
\*\* Used when the triangle does not contain 20 gle (Oblique Triangle)

\*\* In order to use you must be given!) an angle and an opposite side

2) any other side or angle

Lower case letters "a,b,c" represent side lengths Upper case letters "A,B,C" represent angle measures

## Let's derive the Law of Sines...





$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

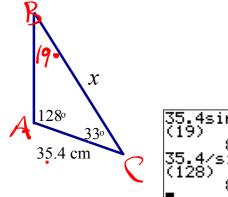


"when looking for a side"

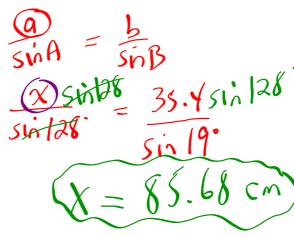
$$\frac{\sin A}{a} = \frac{\sin B}{b} = \frac{\sin C}{c}$$

"when looking for an angle"

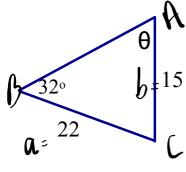




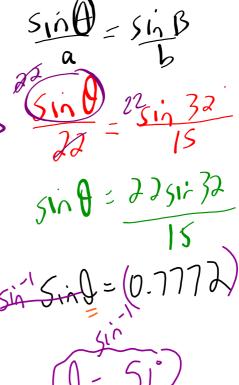
35.4sin(128)/sin (19) 85.6827681 35.4/sin(19)\*sin (128) 85.6827681



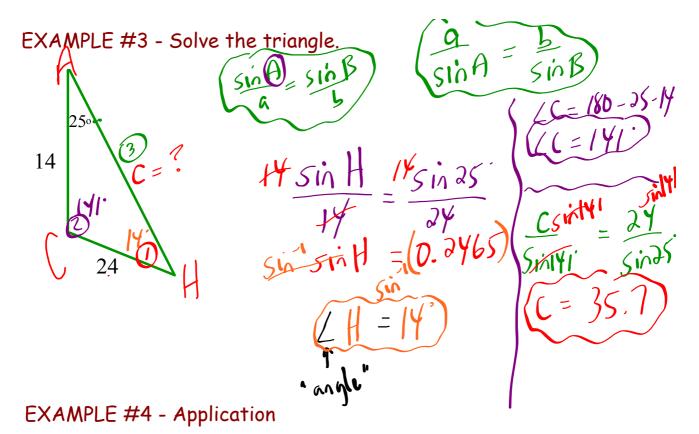
## EXAMPLE #2 - Finding an angle.



15/5 (5 5/5 (5) 5/5 (5) 5/5 (5)



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Suppose that Mr. Watters was playing a straight par-3 golf hole that was 120 m long. He hits one of his regular old slices that ends up 40  $^{\circ}$  off line and is still 82 m from the hole.

- (a) How far did his tee shot travel?
- (b) If he somehow miraculously hits his next shot onto the green, what was the angle between the path of his first shot and the path followed by the second shot?

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## Homework...

Worksheet - Law of Sines.doc

Left Side...

#1 - 6

Right Side...

#1/-4