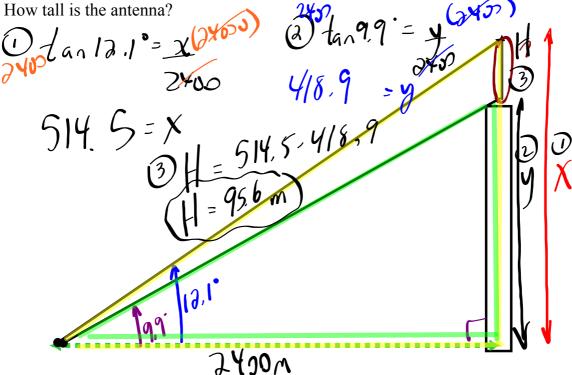
Foundations of Math 11 - March 12

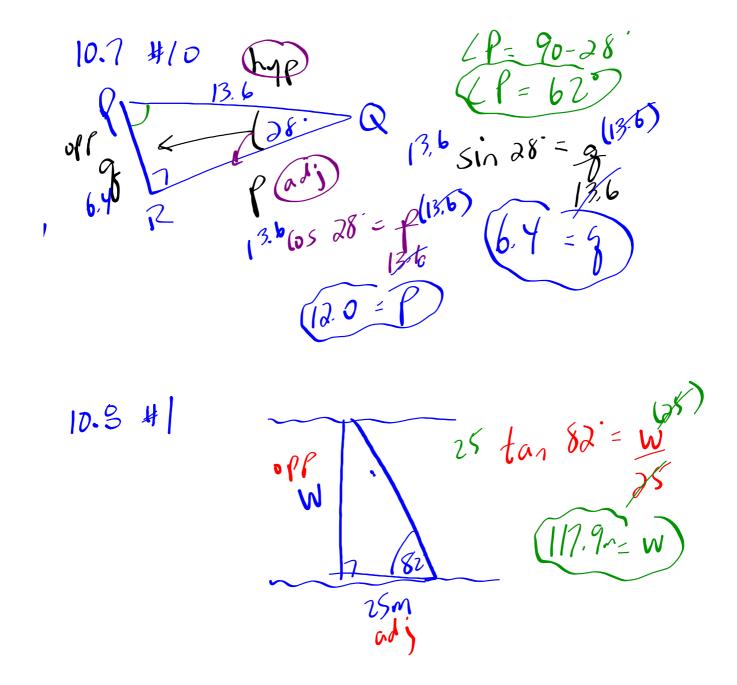
HOMEWORK: Booklet exercise 10.7 #2, 3, 10, 11ab AND 10.8 #1, 3, 4, 6

NOTE: If you were absent you will need to get a booklet next day back

WARM-UP...

An antenna is on the top of the CN Tower in Toronto. From a point 2400 m away, the angles of elevation to the top and bottom of the antenna are 12.1 ° and 9.9° respectively.

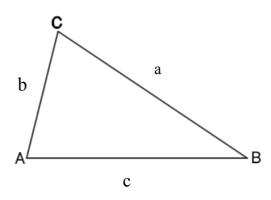


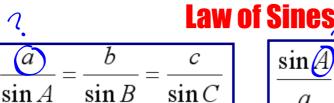




- ** Used when the triangle does not contain 200 gle (Oblique Triangle)
- ** In order to use you must be given!) an angle and an opposite side AND
- 2) any other side or angle Lower case letters "a,b,c" represent side lengths Upper case letters "A,B,C" represent angle measures

Let's derive the Law of Sines...



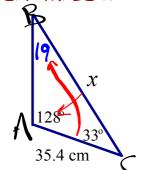




$$\frac{\sin A}{a} = \frac{\sin B}{b} = \frac{\sin C}{c}$$

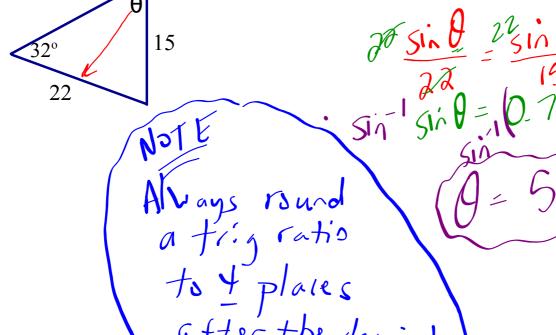
"when looking for an angle"

EXAMPLE #1 - Finding a side.

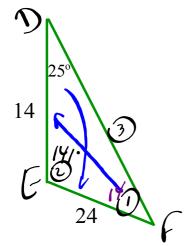


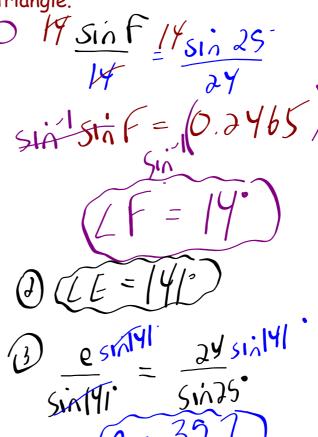
EXAMPLE #2 - Finding an angle.

Sind SinB



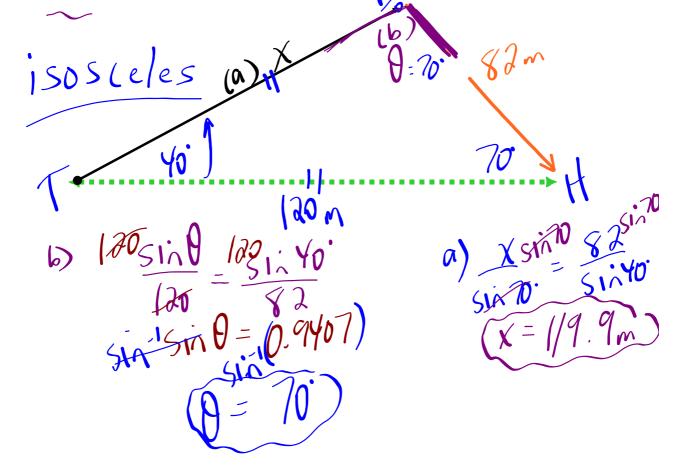
EXAMPLE #3 - Solve the triangle.





EXAMPLE #4 - ApplicationSuppose 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 ° 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?



Homework...

Worksheet - Law of Sines.doc

