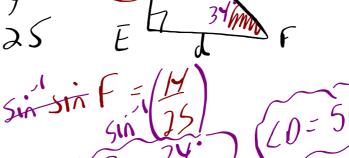
Untitled.notebook October 06, 2017

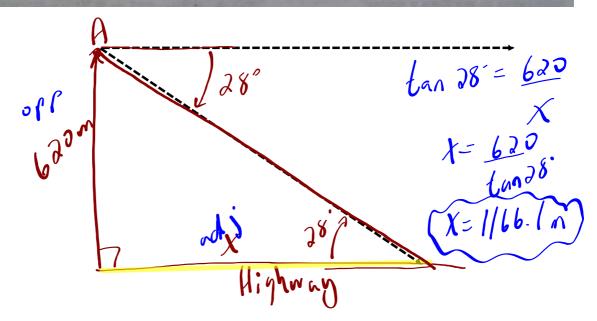
HOMEWORK: 10.7 (Solving) #10, 11abd

Questions 10.8 (Applications) #1, 3, 4, 5, 6

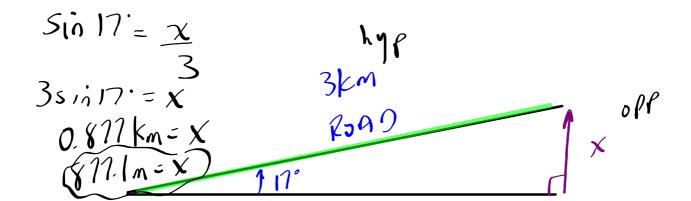
2**%~**71231518



From a traffic helicopter, 620 m above the highway, an accident is located at an angle of depression of 28°. How far along the highway is the accident?



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?



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 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



unknown angle

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

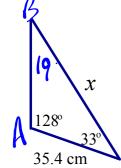
$$\frac{\sin(A)}{a} = \frac{\sin B}{b} = \frac{\sin C}{c}$$

"when looking for a <u>side</u>"

, "when looking for an angle"



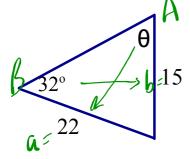
EXAMPLE #1 - Finding a side.



$$Sinta8 = \frac{35.4 \sin 128}{\sin 19}$$

(NOTE: 11. g Ruto

EXAMPLE #2 - Finding an angle.

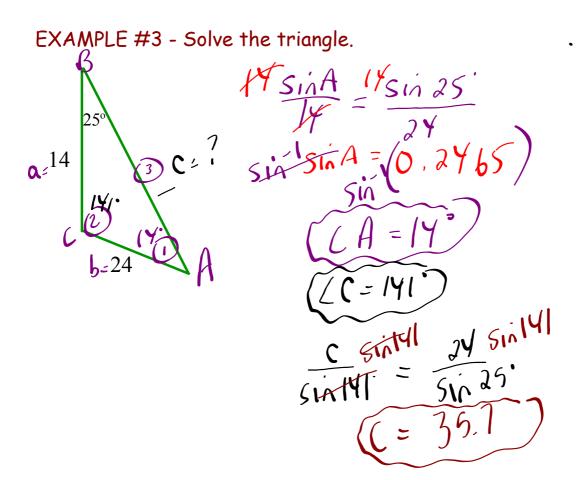


$$\frac{22\sin \theta}{22} = \frac{22\sin 3\theta}{15}$$

$$\frac{15}{\sin \theta} = (0.7772)$$

$$\frac{1}{\sin \theta} = (0.7772)$$

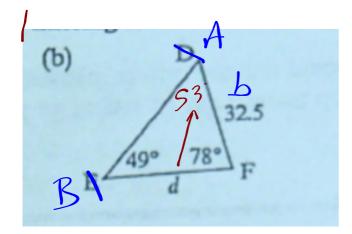
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HOMEWORK...

Booklet Exercise 10.9 #1 - 4



$$\frac{d}{\sin 53} = \frac{32.5}{\sin 49}$$