Adv. Alg.-Trig.

HW 9.3 Test on Law of Sines Tuesday!

Homework #9.2

1)
$$a = 12$$
, $b = 9$

$$2) c = 238$$

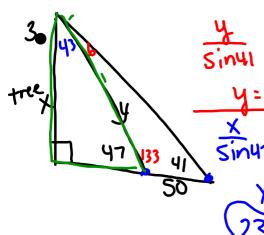
3)
$$x = 230$$

Practice Worksheet

1)
$$b = 6$$

$$3) c = 5$$

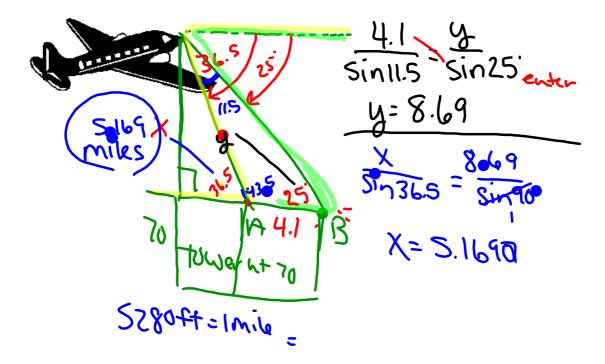
5)
$$c = 5\sqrt{2}$$
 13) 12.7



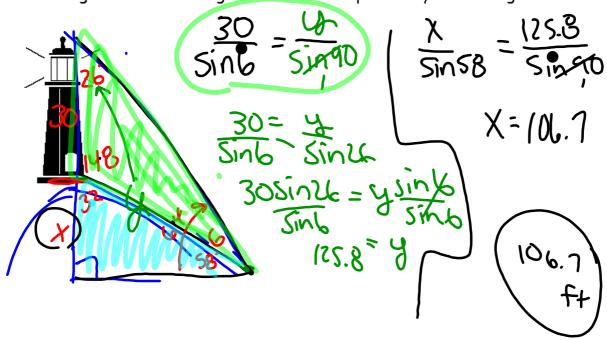
$$y = 313.82$$
 $\frac{x}{\sin 41} = \frac{313.82}{\sin 41} = \frac{313.82}{\sin 40}$
 $\frac{x}{\sin 40} = \frac{x}{\sin 40}$

Law of Sines Word Problem

Towers A and B are known to be 4.1 mi. apart on level ground. A pilot measures the angles of depression to the towers to be 36.5 degrees and 25 degrees, respectively. Find the height of the airplane.

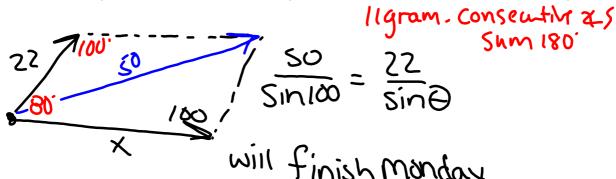


A lighthouse is 30 meters high and is on top of a hill. The angles of elevation of the top and bottom of the lighthouse from a point at the foot of the hill are 64 degrees and 58 degrees 4 feet respectively. How high is the hill?



Problem:

Two forces act on a body to produce a resultant force of 50 lbs. The angle between the forces is 80° and one force is 22 lbs. Find the second force.



HW 9.3

Don't forget Practice Problems listed at the bottom

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