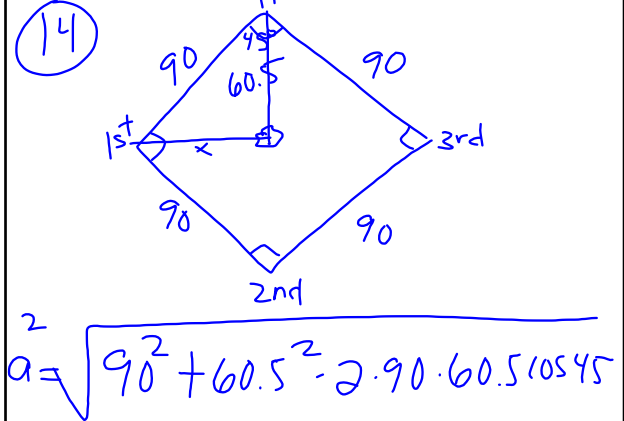


Law of Cosines Quiz

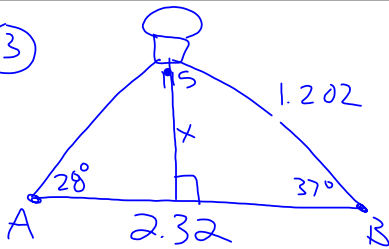
Homework ?'s



Dec 5-6:50 AM

Dec 5-6:50 AM

(13)



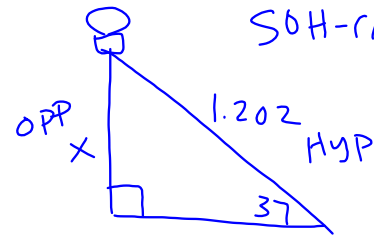
$$\frac{\sin 115}{2.32} = \frac{\sin 28}{x}$$

$$\frac{2.32}{\sin 115} = \frac{x}{\sin 28}$$

$$\frac{2.32 \sin 28}{\sin 115}$$

Dec 7-10:01 AM

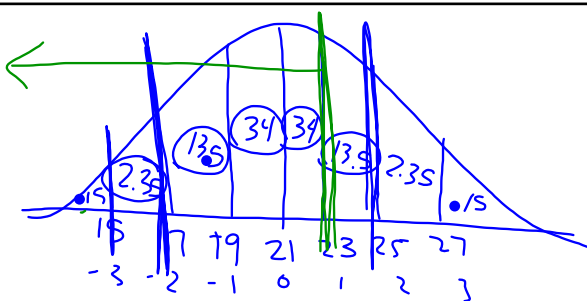
SOH-CAH-TOA



$$\sin 37 = \frac{x}{1.202}$$

$$1.202 \sin 37 = x$$

Dec 7-10:06 AM



97.35%

Dec 7-10:09 AM

5.4 Story Problems

Starting Story Problems:

1. Draw a picture to represent the situation. (May need to use a compass)
2. Label what you know. (Mark your triangles)
3. Mark what you need to find. (List what you know and what you don't know)
4. Decide what you are going to use to solve. (Law of Sines or Law of Cosines)

Dec 5-6:51 AM

Ex 2) Two airplanes leave an airport at the same time on different runways. One flies on a bearing of N 57° E (57° east of north) at 320 miles per hour. The other airplane flies on a bearing of S 23° E (23° east of south) at 310 miles per hour. How far apart will the airplanes be after 1.5 hours?

pg. 192-193

320(1.5)
310(1.5)

180-57-23

N 57° E
S 23° E

Dec 5-6:52 AM

A = a = 480
B = b = 465
C = 100°

$$c^2 = a^2 + b^2 - 2ab \cos C$$

$$c^2 = 480^2 + 465^2 - 2 \cdot 480 \cdot 465 \cdot \cos 100$$

$$c = \sqrt{\text{answ}}$$

C = 723.976 miles

Dec 7-10:29 AM

①

$\frac{\sin 19}{6} = \frac{\sin C}{8}$

A = 135.223°
B = 19°
C = 25.223°

~~A = 6.727
B = 19
C = 100
154.273~~

Dec 7-10:34 AM

⑥

Dec 7-10:43 AM

Homework problems 1-8
We will work on the rest next period.
Do not do #14, 15, 16

Dec 7-10:54 AM