Find Your Seat!

Warm Up

*Grab a note card and answer the following questions.

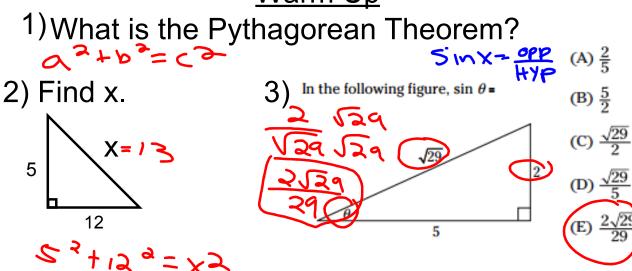
- 1) What will **YOU** need to do in order to be successful this semester (maybe different from last semester)?
- 2) What will Mrs. Allender need to do to help you be successful this semester?
- 3) Tell us something fun you did over break...

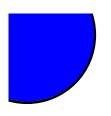
My Expectations

- *No phones out unless I say you can have them out.
- -Please use a classroom calculator if you don't have one.
- * Be respectful to yourself, others, and me.
 - -Raise your hand to be called on
- * Food is ok unless it becomes an issue.
- * If you have a question: "Ask three than me."
- * Quiet Signal?

Signing Out

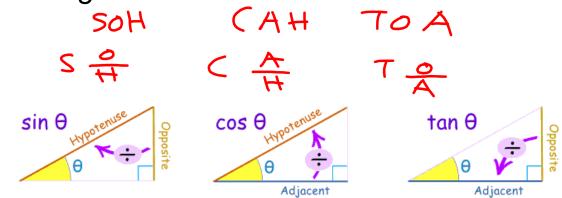
Warm Up

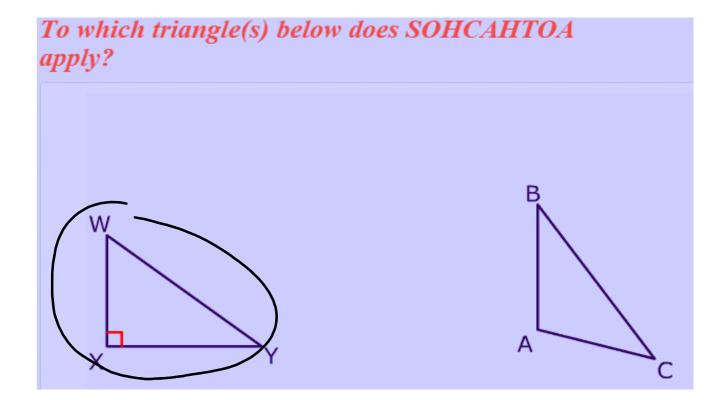


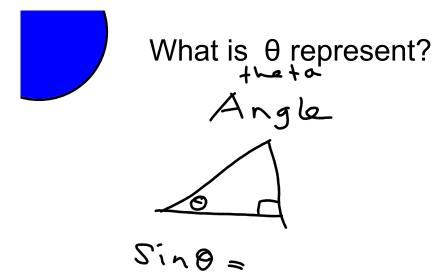


What do you remember about trig?

What is the acronym to remember your trig functions?







https://www.youtube.com/watch?v=t2uPYYLH4Zo

$$1+2 \times 34 + 5 \times 6 \times (7 \times 8 + 9) = ?$$

$$1 + 2 \times 34 + 5 \times 6 \times (5 + 9)$$

$$1 + 2 \times 34 + 5 \times 6 \times (5 + 9)$$

$$1 + 2 \times 34 + 5 \times 6 \times (5 + 9)$$

$$1 + 68 + 30 \times 65$$

$$1 + 68 + 1950$$

$$1 + 68 + 1950$$

$$1 + 68 + 1950$$

Find sin A, cos A, and tan A. Leave your answers as a fraction.

answers as a fraction.

Sinh =
$$\frac{8}{10}$$
 (os A = $\frac{8}{10}$)

Hyp

Sinh = $\frac{1}{10}$ (sc- $\frac{1}{10}$)

Find all six trig identities.

(os A = $\frac{8}{10}$)

Sinh = $\frac{1}{10}$ (os A = $\frac{8}{10}$)

Find all six trig identities.

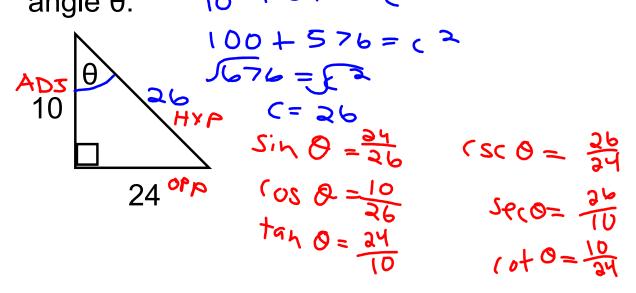
(os A = $\frac{8}{10}$)

Sinh = $\frac{1}{10}$ (os A = $\frac{8}{10}$)

Find all six trig identities.

#Now you can do problem 2!

Evaluate the six trigonometric functions of the angle θ .



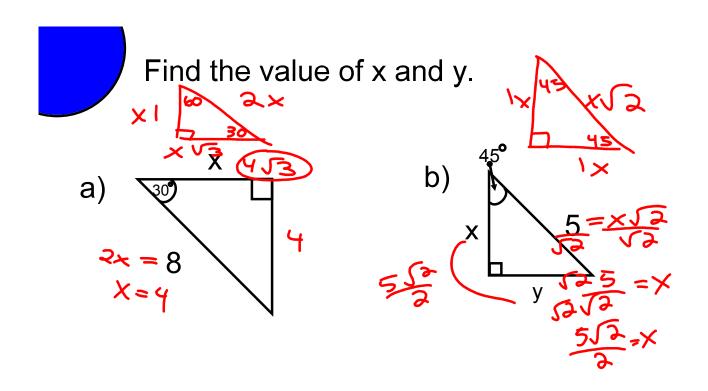
Let θ be an acute angle of a right triangle. Find the values of the other five

trigonometric functions of θ .

$$\sin \theta = \frac{5}{6} \text{ opp}$$

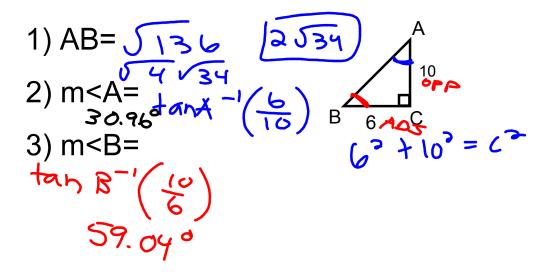
$$\sin \theta = \frac{5}{6} \text{ hyp}$$

$$\cos \theta = \frac{\sqrt{11}}{6} \text{ sec} \theta = \frac{\sqrt{11}}{5} \text{ sec} \theta$$

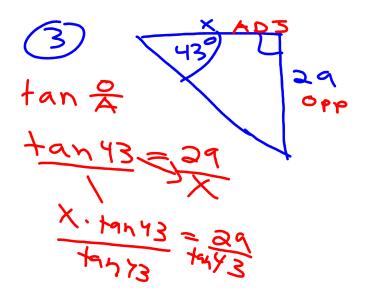


^{*}Now you can do problems 3 and 4.

Find the following using the diagram.



then look at #10-12



Matching Game

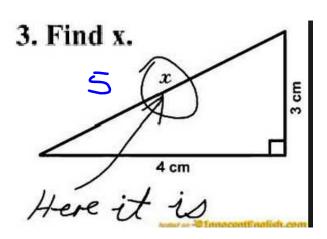
5) A chair lift on a ski slope has an angle of elevation of 28 degrees and covers a total distance of 4640 feet. To the nearest foot, what is the vertical height h covered by the chair lift?

4650 h 46405 in 28 = h 4640 21784 = h 14) You attend a music concert with some friends and sit halfway up the bleachers in the arena. The angle of depression from your horizontal line of sight to the stage is 24 degrees. If your seat is 45 feet above the stage level, what is your actual distance d from the stage? Round to the nearest foot.

Sin 24 = 45 X = 45 X = 111 X = 111

Pp 45

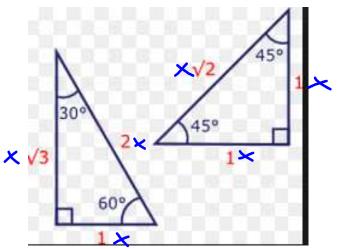
13) You lean a 20 foot ladder against a wall. The base of the ladder is 4 feet from the wall. What angle θ doe the ladder make with the ground?



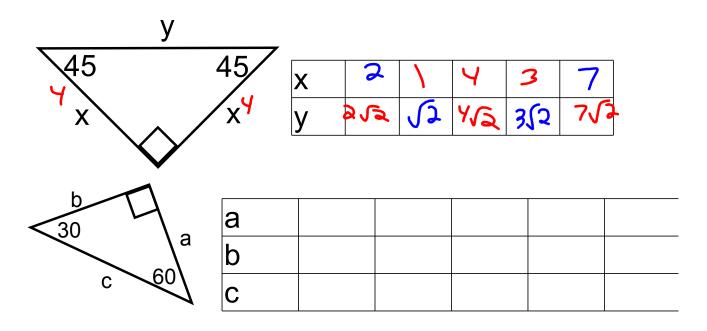


Any questions on numbers 6-9?

Special Right Triangles

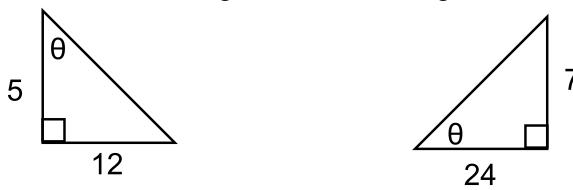


Complete the charts



#15-17 on the purple worksheet

Evaluate the 6 trig functions of angle θ .

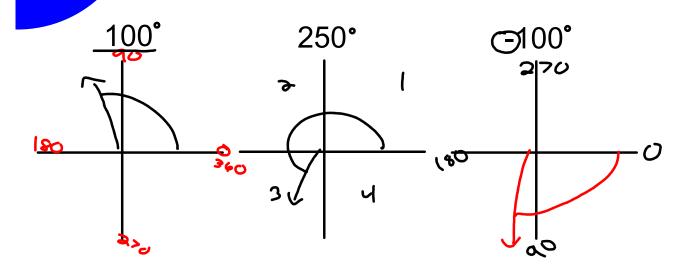


These are special triangles called Pythagorean Triples.

Grid Games

Quiz Quiz Trade

Draw an angle with the given measure in standard position.



Homework

*Finish the purple WS.

*Page 856 #4, 6, 9, 13, 17-20, 32, 33, 36

* Page 863 #6-9

The right angle from which to approach any problem is the "Try Angle."