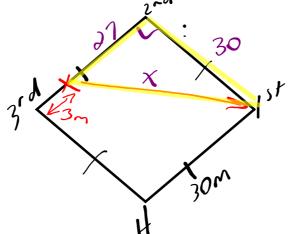
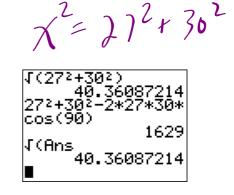


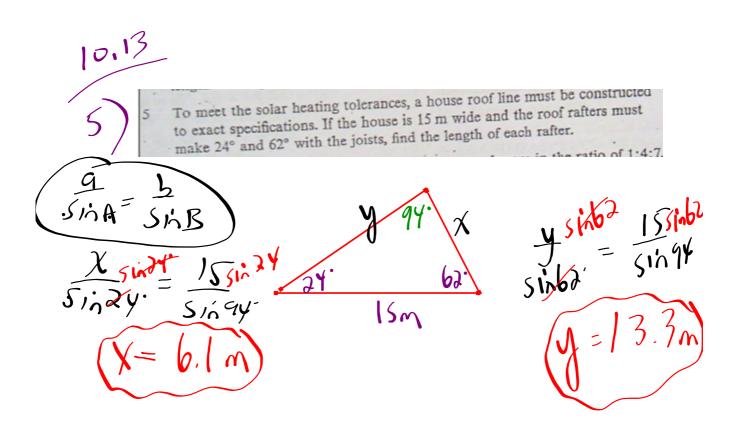
Worksheet - Law of Cosines.doc QUESTIONS???

10.12

The distance between the bases in a baseball diamond is 30 m. If the third baseman picks up a fair ground ball 3 m from third base, and on the line from second to third base, how far will his throw be to first base?

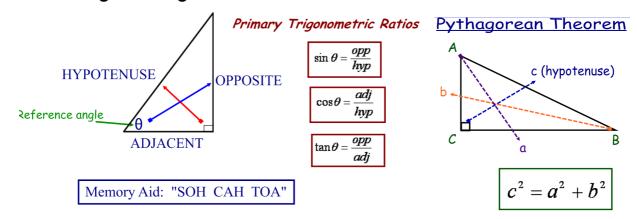






REVIEW - What formula do I use? Ask yourself...

- Is it a right triangle? If Yes, then...



- If you are finding a side, do you have SAS? If Yes, then...

Law of Cosines

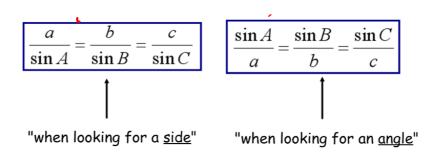
$$a^2 = b^2 + c^2 - 2bc \cos A$$

- If you are finding an angle, do you have SSS? If Yes, then...

Law of Cosines (rearranged)

$$\cos A = \frac{b^2 + c^2 - a^2}{2bc}$$

- Anything else...use your Law of Sines!



EXTRA PRACTICE TIME...Finish for HW!!!

Puzzle Review - Primary Trig, Law of Sines_Cosines.pdf

$$\sin \theta = \frac{opp}{hyp}$$

$$\cos\theta = \frac{adj}{hyp}$$

$$\tan \theta = \frac{opp}{adj}$$

$$c^2 = a^2 + b^2$$

$$a^2 = b^2 + c^2 - 2bc \cos A$$

$$\cos A = \frac{b^2 + c^2 - a^2}{2bc}$$

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

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

Worksheet - Law of Cosines.doc

Puzzle Review - Primary Trig, Law of Sines_Cosines.pdf