

Actions to help improve your grade.

- Practice
 - In class
 - At home
- flashcards
- Tutoring
 - peer
 - Buc black
 - Morning
 - private
- ASK questions
 - In class
 - often
 - Specific
 - On homework to your self.
- Answer questions

Online Practice (games)

- USA test prep
- Purple math
- Khan Academy
- Cool math
- math is fun
- Delta math

Redoing assignments

Practice Test

Review Sheet Complete

Extra Credit

Be Prepared
- material (Calculator)

- mentally

- positive attitude
- math happens 90 minutes a day.
- read books
 - Tom Brady's book

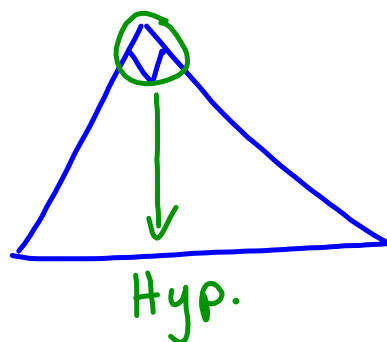
- Physically

- food
- Sleep

- Phone break
- Screen free time

**Complete the warm-up
sheet while the
registration stickers are
being handed out.**

1. 8.6
2. 11.1
3. 26
4. 30
5. 10 feet



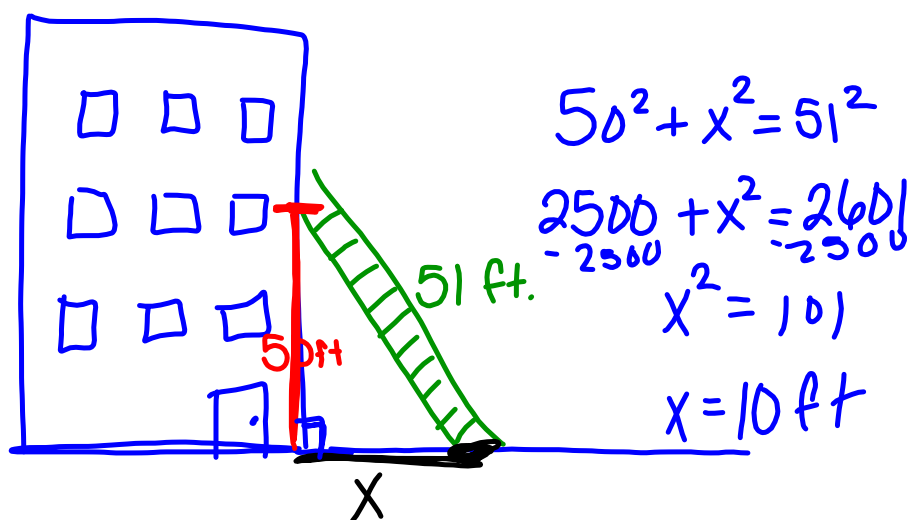
$$a^2 + b^2 = c^2$$

$$4.5^2 + x^2 = 12^2$$

$$\begin{array}{r} 20.25 + x^2 = 144 \\ -20.25 \qquad 20.25 \end{array}$$

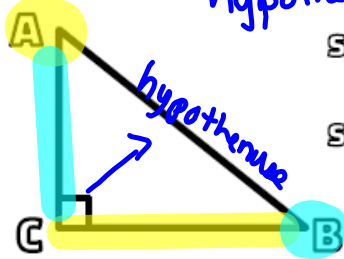
$$\sqrt{x^2} = \sqrt{23.75}$$

$$x =$$



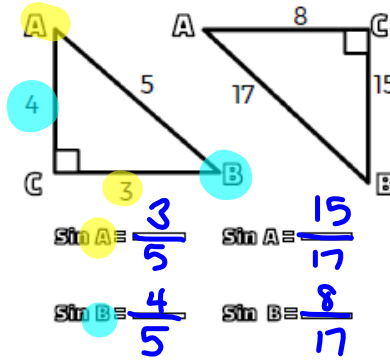
Trigonometric Ratios

Sine = $\frac{\text{opposite}}{\text{hypotenuse}}$



$$\sin A = \frac{BC}{AB}$$

$$\sin B = \frac{AC}{AB}$$



$$\sin A = \frac{3}{5}$$

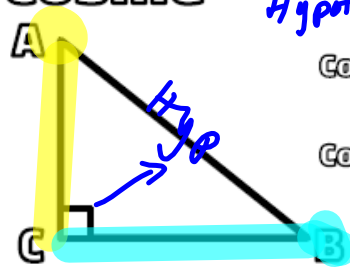
$$\sin B = \frac{4}{5}$$

$$\sin A = \frac{15}{17}$$

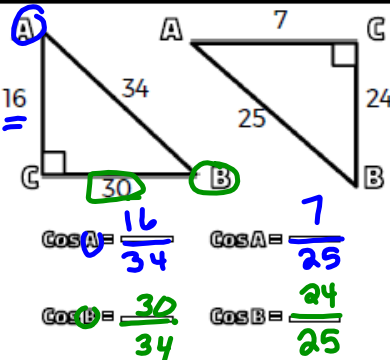
$$\sin B = \frac{8}{17}$$

⊖
 Sin θ
 Sin t

Cosine = $\frac{\text{Adjacent}}{\text{Hypotenuse}}$



$\cos A = \frac{AC}{AB}$
 $\cos B = \frac{BC}{AB}$



$\cos A = \frac{16}{34}$ $\cos A = \frac{7}{25}$
 $\cos B = \frac{30}{34}$ $\cos B = \frac{24}{25}$

$$\cos A = \frac{8}{17}$$

$$\cos B = \frac{15}{17}$$

Tangent = $\frac{\text{Opposite}}{\text{Adjacent}}$

$\tan A = \frac{BC}{AC}$
 $\tan B = \frac{AC}{BC}$

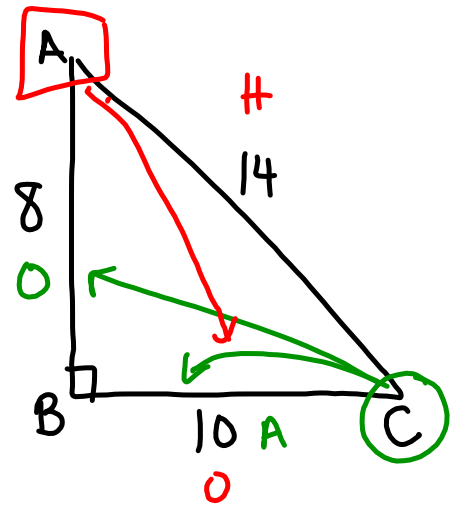
$\tan A = \frac{20}{15}$ $\tan A = \frac{21}{20}$
 $\tan B = \frac{15}{20}$ $\tan B = \frac{20}{21}$

$$\tan = \frac{\sin}{\cos}$$

Draw $\triangle ABC$ where $\angle ABC = 90^\circ$, $AB = 8$, $BC = 10$, and $AC = 14$.

a. What is $\tan C$? $= \frac{8}{10}$ $\left(\frac{4}{5}\right)$

b. What is $\sin A$? $\frac{10}{14}$ $\left(\frac{5}{7}\right)$



Draw $\triangle ABC$ where $\angle ACB = 90^\circ$, $AC = 10$, and $CB = 24$.

a. What is the length of AB ? 26

b. What is $\cos A$? $\frac{10}{26} = \frac{5}{13}$

c. What is $\tan B$? $\frac{10}{24} = \frac{5}{12}$

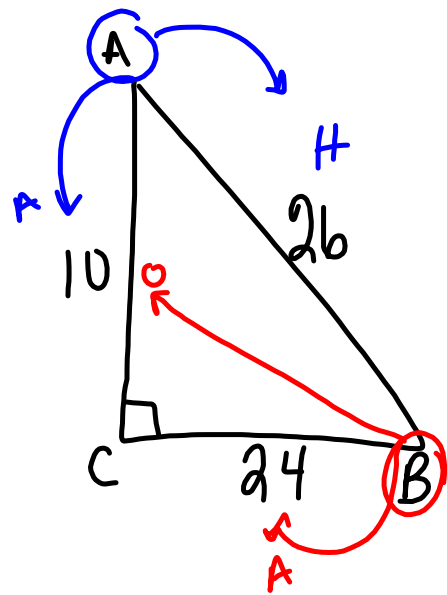
$$a^2 + b^2 = c^2$$

$$10^2 + 24^2 = c^2$$

$$100 + 576 = c^2$$

$$676 = c^2$$

$$26 = c$$

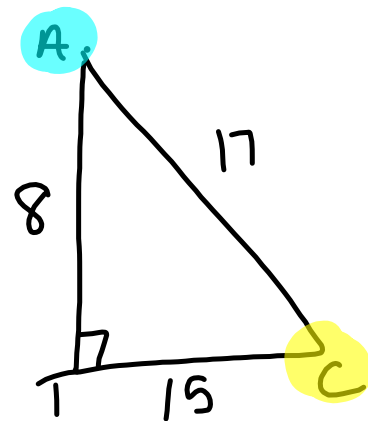


Draw $\triangle CAT$ where $\angle ATC = 90^\circ$, $CA = 17$, and $CT = 15$.

a. What is the length of AT ?

b. What is $\sin C$? $\frac{8}{17}$

c. What is $\tan A$? $\frac{15}{8}$



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

$$a^2 + 15^2 = 17^2$$

$$a^2 + 225 = 289$$

$$a^2 = 64$$

$$a = 8$$

$$\sin A = \frac{12}{20} \frac{\text{opp}}{\text{hyp}}$$

