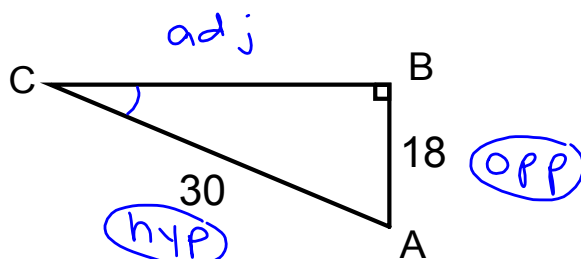


DO NOW

Find the measure of angle C. Round your answer to the nearest degree.



$$\sin C = \frac{18}{30}$$

$$\sin^{-1}\left(\frac{18}{30}\right)$$

$$\angle C = 37^\circ$$

Jan 3-1:49 PM

Using Trigonometry to Solve Problems

When finding the SIDE of a right triangle, setup the trig ratio for the angle and cross multiply!

Solve for x. Round to the nearest tenth:

$$1) \cdot \cos 35^\circ = \frac{x}{20}$$

$$2) \cdot \tan 60^\circ = \frac{15}{x}$$

$$16.383 = x$$

$$\boxed{16.4 = x}$$

$$\frac{x \cdot [\cancel{\tan 60^\circ}]}{\cancel{\tan 60^\circ}} = \frac{15}{\cancel{\tan 60^\circ}}$$

$$\boxed{x = 8.7}$$

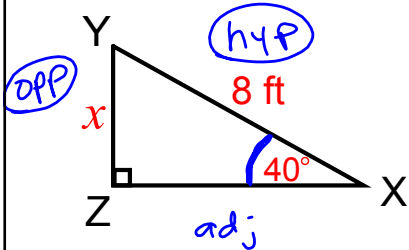
$$15 / (\tan(60^\circ))$$

$$\text{Alpha } y =$$

Jan 3-1:57 PM

Decide which trigonometric ratio to use based on the sides you are using

Find the value of x to the nearest tenth of a foot:

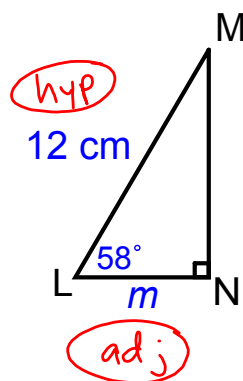


$$\underline{8 \cdot \sin 40 = \frac{x}{8} \cdot 8}$$

$$\boxed{5.1 = x}$$

Jan 3-2:07 PM

Find the value of m to the nearest tenth of a cm:



opp

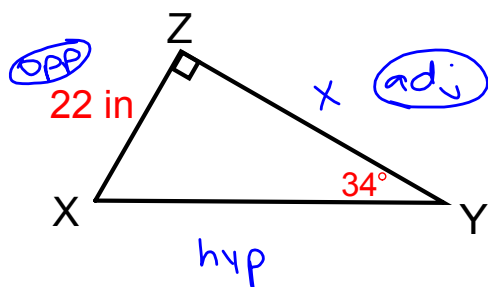
$$12 \cdot \cos 58 = \frac{m}{12} \cdot 12$$

$$12 \cdot \cos 58 = m$$

$$\boxed{6.4 = m}$$

Jan 3-2:11 PM

What is the length of \overline{YZ} to the nearest tenth of an inch?



$$\tan 34 = \frac{22}{x}$$

$$\frac{(\cancel{\tan 34}) \cdot x = 22}{(\cancel{\tan 34}) \quad (\tan 34)}$$

$$x = 32.6$$

Jan 3-2:24 PM