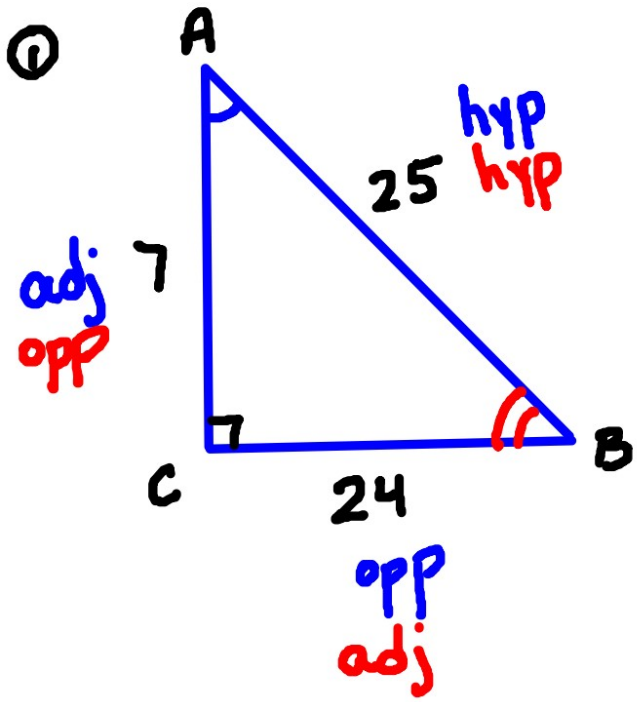
DRILL

① 

Find
- $\sin A = \frac{24}{25}$
- $\cos A = \frac{7}{25}$
- $\sec B = \frac{25}{24}$
- $\tan B = \frac{7}{24}$
- $\cot A = \frac{7}{24}$

Solving Right Triangles

Degree Mode:

Solve

Ex: $5 \cdot \sin 30^\circ = \frac{x}{5} \cdot 5$

$5 \cdot \sin 30^\circ = x$

$x = 2.5$

Ex: $x \cdot \tan 50^\circ = \frac{12}{x} \cdot x$

$\frac{x \cdot \tan 50^\circ}{\tan 50^\circ} = \frac{12}{\tan 50^\circ}$

$x \approx 10.07$

Ex: $x \cdot \cos 64^\circ = \frac{20}{x} \cdot x$

$$\frac{x \cdot \cos 64^\circ}{\cos 64^\circ} = \frac{20}{\cos 64^\circ}$$

$$x \approx 45.62$$

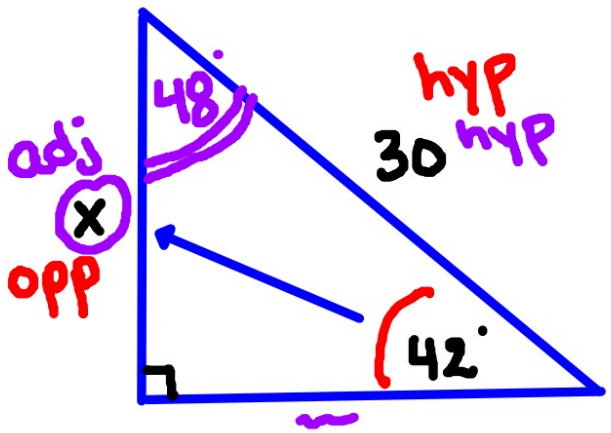
$$\sec 40^\circ = \frac{x}{10} \qquad x = \frac{10}{\cos 40^\circ}$$

$$* \frac{x \cdot \cos 40^\circ}{\cos 40^\circ} = \frac{10}{\cos 40^\circ} \cdot x \qquad x \approx 13.05$$

Ex:

180°

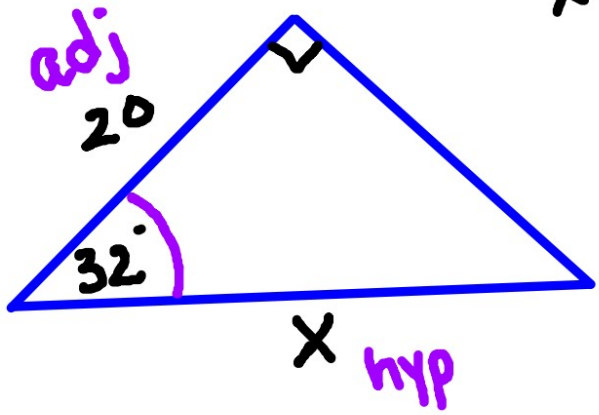
Solve for x:

① 

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

$30 \cdot \sin 42^\circ = \frac{x}{30} \cdot 30$

$x = 20.07$

② 

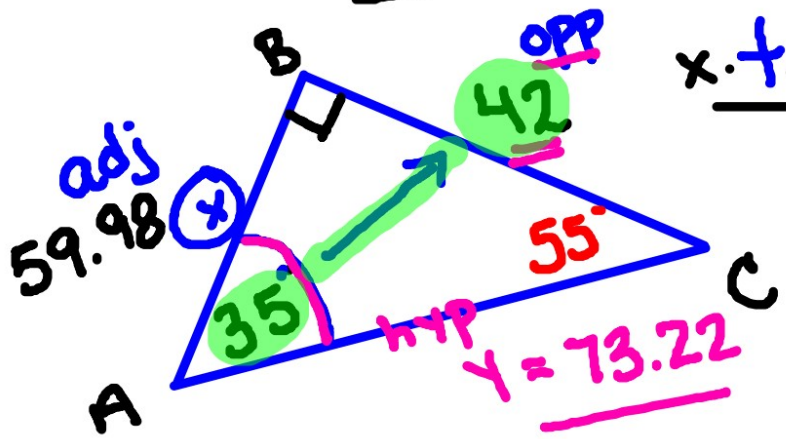
$x \cdot \cos 32^\circ = \frac{20}{x} \cdot x$

$x = \frac{20}{\cos 32^\circ}$

$x \approx 23.58$

Solve the Right Triangle

* Find all missing sides & angles



$x \cdot \tan 35^\circ = \frac{42}{x} \cdot x$

$\tan 35^\circ \quad \tan 35^\circ$

$X \approx 59.98$

$y \cdot \sin 35^\circ = \frac{42}{y} \cdot y$

$m\angle A = 35^\circ$

$m\angle B = 90^\circ$

$m\angle C = 55^\circ$

$BC = 42$

$AB \approx 59.98$

$AC \approx 73.22$

$y = \frac{42}{\sin 35^\circ}$

$y \approx 73.22$