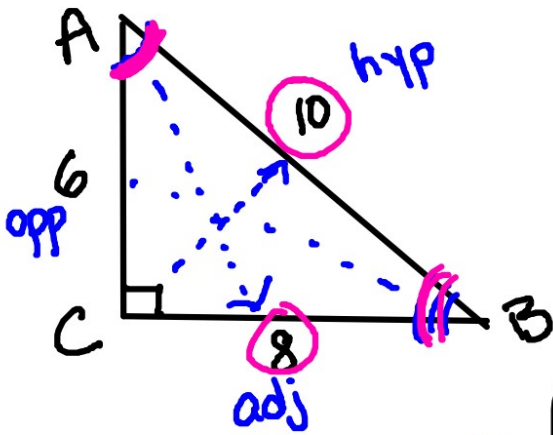


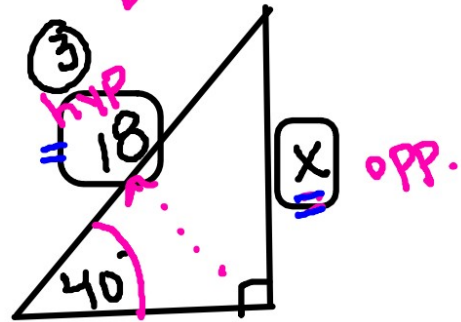
DRILL

SOH CAH TOA

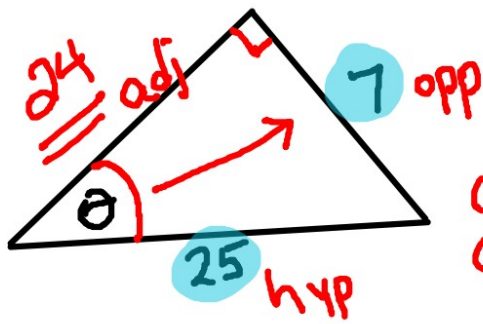
① Find $\sin A$, $\cos A$, $\tan B$



Solve for x:



② Find $\cos \theta$: $\frac{a}{h} = \frac{24}{25}$



$$\begin{aligned} a^2 + 7^2 &= 25^2 \\ a^2 + 49 &= 625 \\ \sqrt{a^2} &= \sqrt{576} \end{aligned}$$

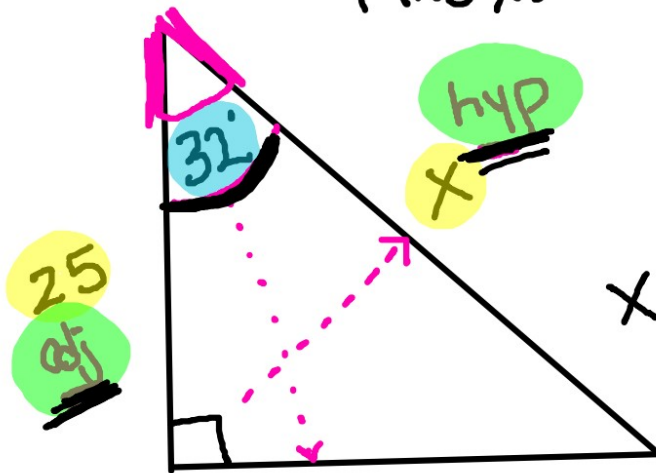
$$\sin \theta = \frac{\text{opp}}{\text{hyp}}$$

$$18 \sin 40^\circ = \frac{x}{18} \cdot 18$$

$$18 \sin 40^\circ = x$$

$$x \approx 11.57$$

Ex:



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

$$x \cdot \cos 32^\circ = \frac{25}{x}$$

$$\frac{\cos 32^\circ}{1} = \frac{25}{x}$$

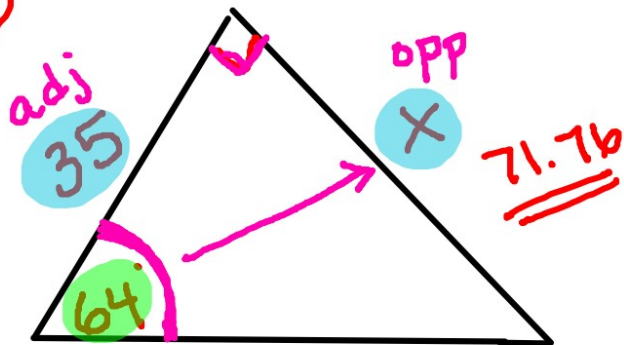
$$\frac{x \cos 32^\circ}{\cos 32^\circ} = \frac{25}{\cos 32^\circ}$$

$$\frac{x \cos 32^\circ}{\cos 32^\circ} = \frac{25}{\cos 32^\circ}$$

$$x \approx 29.48$$

EX:

①



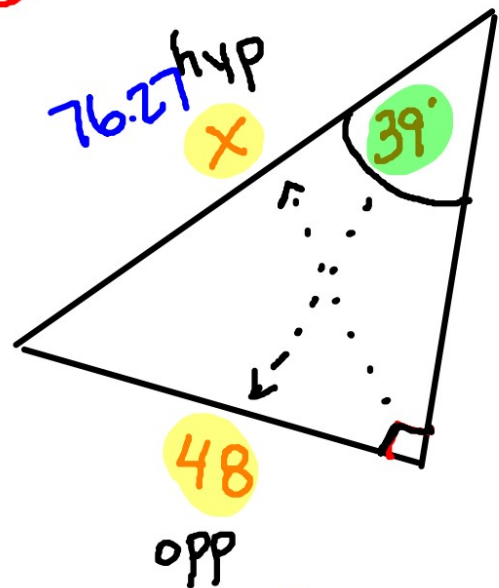
$$\tan \theta = \frac{\text{opp}}{\text{adj}}$$

$$35 \cdot \tan 64^\circ = \frac{X}{35} \cdot 35$$

$$35 \tan 64^\circ = X$$

$$71.76 \approx X$$

②



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

$$X \sin 39^\circ = \frac{48}{X} \cdot X$$
$$\frac{X \sin 39^\circ}{\sin 39^\circ} = \frac{48}{\sin 39^\circ}$$

$$X \approx 76.27$$