

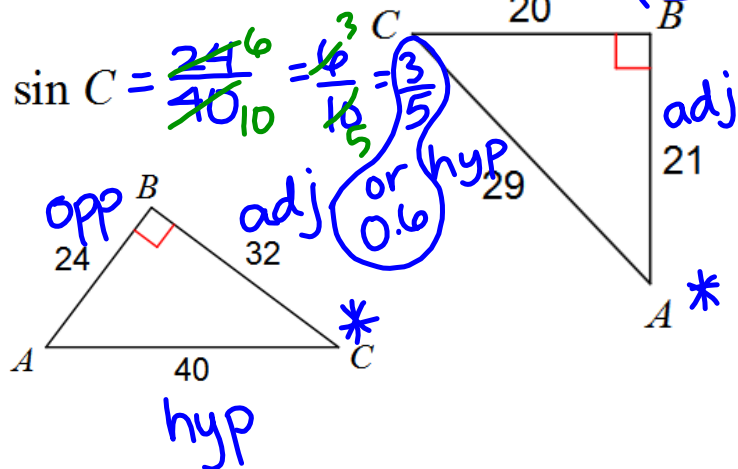
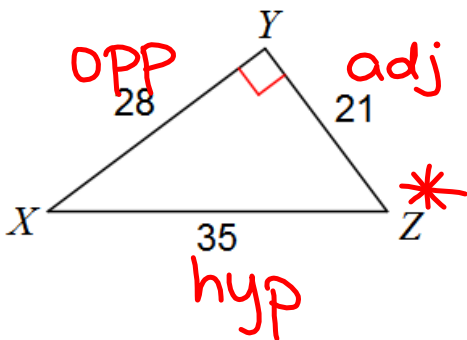
Trig Ratios Practice

Get out your piece of paper and copy these down!

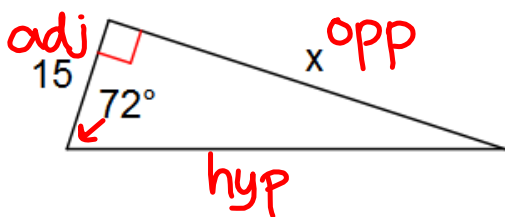
Find the value of each trigonometric ratio.

$$\cos Z = \frac{21^3}{35^3} = \frac{3}{5} \text{ or } 0.6$$

$$\tan A = \frac{20}{21} \text{ or } 0.95$$



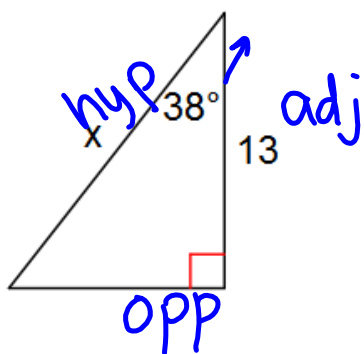
Find the missing side. Round to the nearest tenth.



$$15 \cdot \tan 72 = \frac{x}{15} \cdot 15$$

$$15 \cdot \tan 72 = x$$

$$\boxed{46.2 \approx x}$$

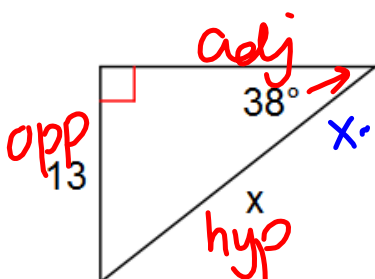


$$x \cdot \cos 38 = \frac{13}{x} \cdot x$$

$$\frac{x \cdot \cos 38}{\cos 38} = \frac{13}{\cos 38}$$

$$x = \frac{13}{\cos 38}$$

$$\boxed{x \approx 16.4}$$



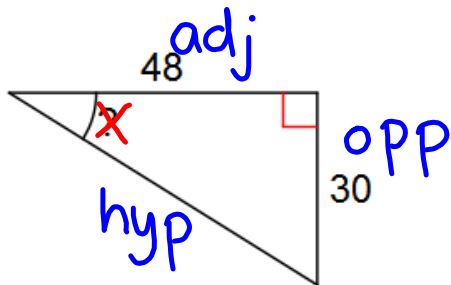
$$x \cdot \sin 38 = \frac{13}{x} \cdot x$$

$$\frac{x \cdot \sin 38}{\sin 38} = \frac{13}{\sin 38}$$

$$x = \frac{13}{\sin 38}$$

$$\boxed{x \approx 21.1}$$

Find the measure of the indicated angle to the nearest degree.

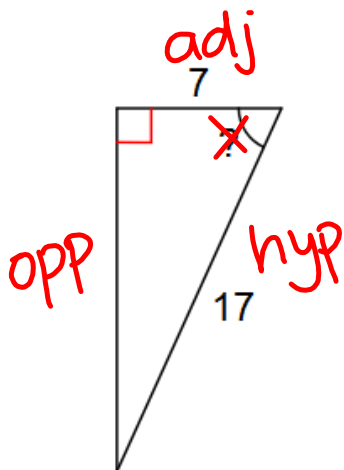


$$\tan x = \frac{30}{48}$$

$$\cancel{\tan^{-1}(\tan x)} = \tan^{-1}\left(\frac{30}{48}\right)$$

$$x = \tan^{-1}\left(\frac{30}{48}\right)$$

$$x \approx 32^\circ$$

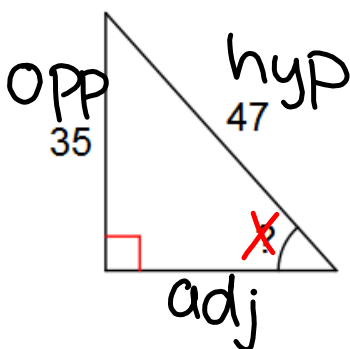


$$\cos x = \frac{7}{17}$$

$$\cancel{\cos^{-1}(\cos x)} = \cos^{-1}\left(\frac{7}{17}\right)$$

$$x = \cos^{-1}\left(\frac{7}{17}\right)$$

$$x \approx 65.68 \approx 66^\circ$$



$$\sin x = \frac{35}{47}$$

$$\cancel{\sin^{-1}(\sin x)} = \sin^{-1}\left(\frac{35}{47}\right)$$

$$x = \sin^{-1}\left(\frac{35}{47}\right)$$

$$x \approx 48^\circ$$

Homework

Finish Trigonometry: sine, cosine,
tangent WKS