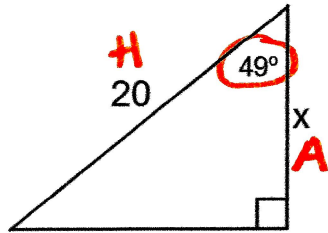


Find the value of x to the nearest hundredth. Show your work and circle your answers.

1.

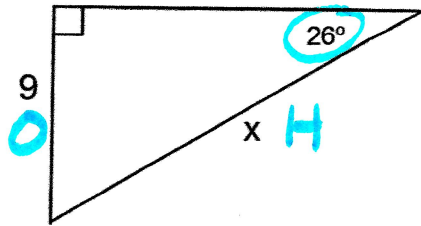


SOH CAH TOA

$$20 \cdot \cos 49^\circ = \frac{x}{20} \cdot 20$$

$$x = 13.12$$

2.

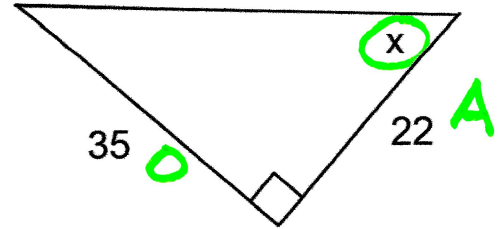


SOH CAH TOA

$$\sin 26^\circ = \frac{9}{x}$$

$$x = 20.53$$

3.



SOH CAH TOA

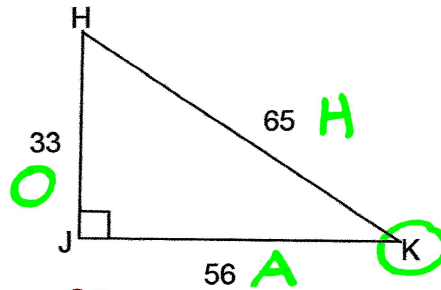
$$\tan x = \frac{35}{22}$$

$$x = \tan^{-1}\left(\frac{35}{22}\right)$$

$$x = 57.85^\circ$$

4. Use $\triangle HJK$ to write each as a ratio.

SOH CAH TOA



$$\cot K = \frac{56}{33}$$

$$\sin K = \frac{33}{65}$$

$$\sec K = \frac{65}{56}$$

$$\csc K = \frac{65}{33}$$

$$\cos K = \frac{56}{65}$$

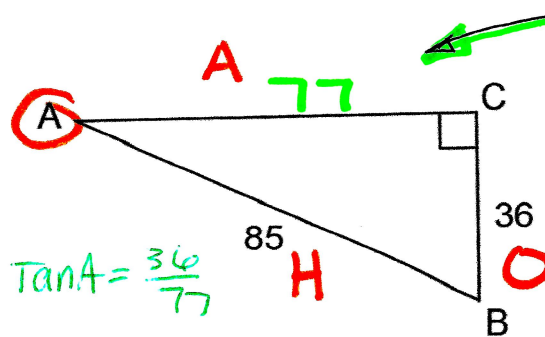
$$\tan K = \frac{33}{56}$$

5. Use $\triangle ABC$ to write each as a ratio.

SOH CAH TOA

$$\sin A = \frac{36}{85} \quad \cos A = \frac{77}{85}$$

$$\tan A = \frac{36}{77}$$



Find missing leg:

$$85^2 = 36^2 + x^2$$

$$\sqrt{x^2} = \sqrt{85^2 - 36^2}$$

$$x = 77$$

$$\sec A = \frac{85}{77}$$

$$\cot A = \frac{77}{36}$$

$$\csc A = \frac{85}{36}$$