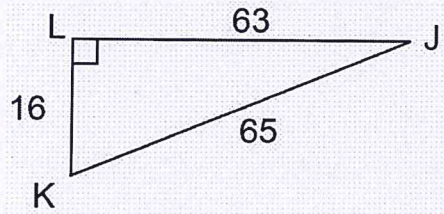


1. Write each as a ratio.

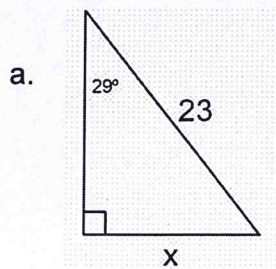


$$\sin J =$$

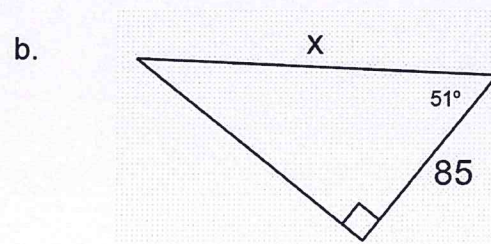
$$\cos K =$$

$$\tan J =$$

2. Find the value of x to the nearest hundredth in each triangle.

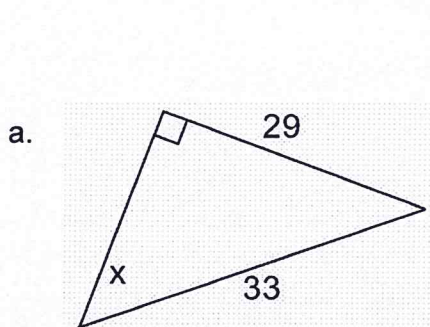


$$x =$$

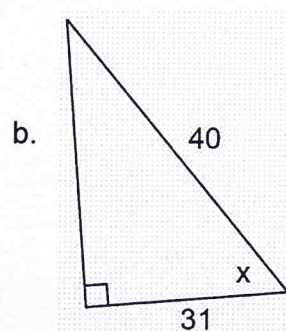


$$x =$$

3. Find the measure of x to the nearest hundredth of a degree in each triangle.

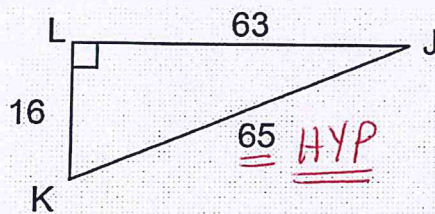


$$x =$$



$$x =$$

1. Write each as a ratio.



ANSWERS

$$\sin J = \frac{16}{65}$$

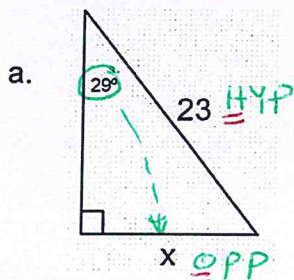
$$\sin J = \frac{\text{opp}}{\text{hyp}}$$

$$\cos K = \frac{16}{65}$$

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

$$\tan J = \frac{16}{63}$$

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

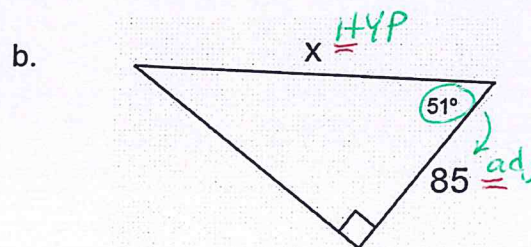
2. Find the value of x to the nearest hundredth in each triangle.

$$x = 11.15$$

SOH CAH TOA

$$\sin 29^\circ = \frac{x}{23}$$

$$x = 23 \sin 29^\circ = 11.15$$



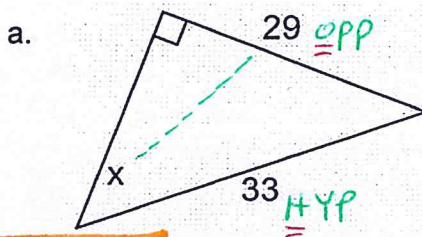
$$x = 135.07$$

SOH CAH TOA

$$\cos 51^\circ = \frac{85}{x}$$

$$\frac{\cos 51^\circ}{1} = \frac{85}{x}$$

$$x = \frac{(85)(1)}{\cos 51^\circ} = 135.07$$

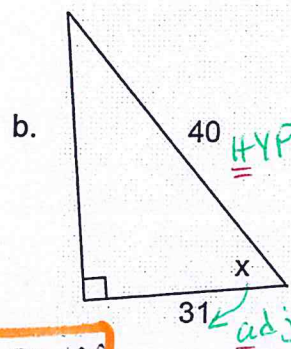
3. Find the measure of x to the nearest hundredth of a degree in each triangle.

$$x = 61.50^\circ$$

SOH CAH TOA

$$\sin x = \frac{29}{33}$$

$$x = \sin^{-1}\left(\frac{29}{33}\right) = 61.50^\circ$$



$$x = 39.19^\circ$$

SOH CAH TOA

$$\cos x = \frac{31}{40}$$

$$x = \cos^{-1}\left(\frac{31}{40}\right) = 39.19^\circ$$