

Write each trigonometric ratio as a fraction and as a decimal rounded to the nearest hundredth.

3. $\sin C = \frac{4}{5}$

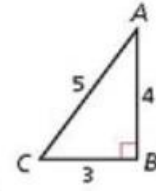
4. $\tan A = \frac{3}{4}$

5. $\cos A = \frac{4}{5}$

6. $\cos C = \frac{3}{5}$

7. $\tan C = \frac{4}{3}$

8. $\sin A = \frac{3}{5}$



Use a special right triangle to write each trigonometric ratio as a fraction.

9. $\cos 60^\circ$

10. $\tan 30^\circ$

11. $\sin 45^\circ$

$\cos 60 = \frac{x}{2x} = \frac{1}{2}$

$\tan 30 = \frac{x\sqrt{3}}{x} = \sqrt{3}$

$\sin 45 = \frac{x}{x\sqrt{2}} = \frac{\sqrt{2}}{2}$

Use your calculator to find each trigonometric ratio. Round to the nearest hundredth.

12. $\tan 67^\circ = 2.36$

13. $\sin 23^\circ = .39$

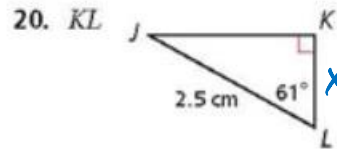
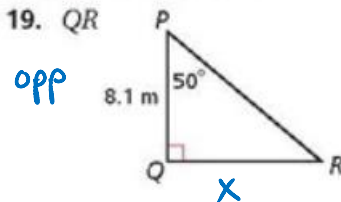
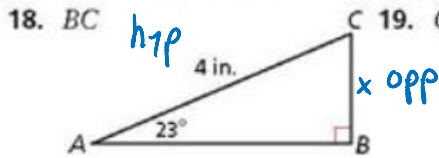
14. $\sin 49^\circ = .75$

15. $\cos 88^\circ = .03$

16. $\cos 12^\circ = .98$

17. $\tan 9^\circ = .16$

Find each length. Round to the nearest hundredth.



$\frac{\sin 23}{1} = \frac{x}{4}$

$x = 4 \cdot \sin 23$

$x \approx 1.56$

$\tan 50 = \frac{x}{8.1}$

$x = 8.1 \cdot \tan 50$

$x \approx 9.65$

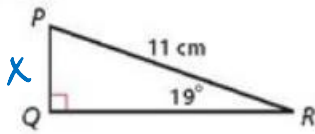
$\cos 61 = \frac{x}{2.5}$

$x = 2.5 (\cos 61)$

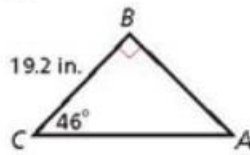
$x \approx 1.21$

Find each length. Round to the nearest hundredth.

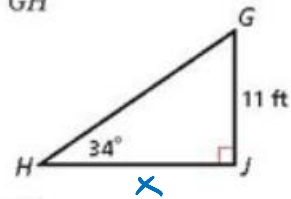
37. PQ



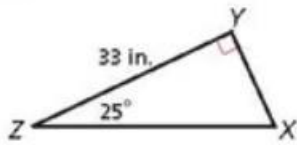
~~38. AC~~



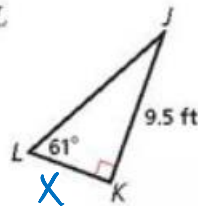
39. GH



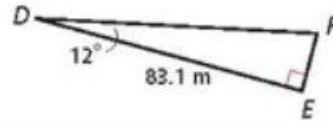
~~40. XZ~~



41. KL



~~42. EF~~



$$37) \sin 19 = \frac{x}{11}$$

$$x = 11 \cdot \sin 19$$

$$\boxed{x \approx 3.58}$$

$$39) \tan 34 = \frac{11}{x}$$

$$\frac{x \cdot \tan 34 = 11}{\tan 34 \quad \tan 34}$$

$$\boxed{x \approx 16.31}$$

$$41) \tan 25 = \frac{33}{x}$$

$$\frac{x \cdot \tan 25 = 33}{\tan 25 \quad \tan 25}$$

$$\boxed{x \approx 75.27}$$