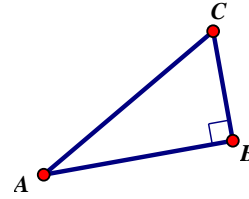


| The Sine Ratio (sin) | The Cosine Ratio (cos) | The Tangent Ratio (tan) |
|---|---|---|
| $\sin \theta = \frac{\textit{Opposite}}{\textit{Hypotenuse}}$ | $\cos \theta = \frac{\textit{Adjacent}}{\textit{Hypotenuse}}$ | $\tan \theta = \frac{\textit{Opposite}}{\textit{Adjacent}}$ |

1. Match the following.

- a) _____ Opposite Leg to $\angle A$
- b) _____ Sine Ratio of $\angle C$
- c) _____ Opposite Angle to \overline{AB}
- d) _____ The Hypotenuse
- e) _____ Adjacent Leg to $\angle A$
- f) _____ Tangent Ratio of $\angle C$
- g) _____ Reference angle if $\frac{BC}{AC}$ is the Cosine Ratio.
- h) _____ Adjacent Leg to $\angle C$
- i) _____ Cosine Ratio of $\angle A$
- j) _____ The Longest Side
- k) _____ Reference angle if $\frac{BC}{AC}$ is the Sine Ratio.



- 1. $\angle A$
- 2. $\angle B$
- 3. $\angle C$
- 4. \overline{AB}
- 5. \overline{BC}
- 6. \overline{AC}
- 7. $\frac{BC}{AC}$
- 8. $\frac{AB}{AC}$
- 9. $\frac{BC}{AB}$
- 10. $\frac{AB}{BC}$

2. Label the sides of the triangle using the reference angle -- (O) for Opposite, (A) for Adjacent and (H) for Hypotenuse. After you have labeled the triangle, then choose which trigonometric ratio that you would use to solve for the missing info.

a)

SIN COS TAN

b)

SIN COS TAN

c)

SIN COS TAN

d)

SIN COS TAN

e)

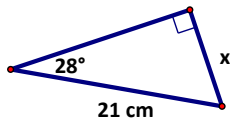
SIN COS TAN

f)

SIN COS TAN

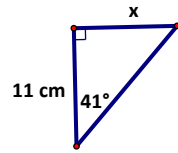
3. Solve for the side x . (Round all final answers to 2 decimal places)

a)



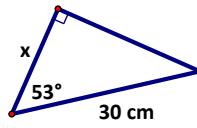
$x \approx$ _____

b)



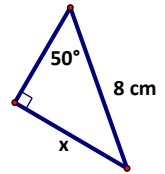
$x \approx$ _____

c)



$x \approx$ _____

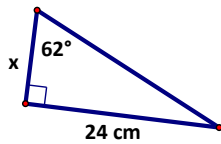
d)



$x \approx$ _____

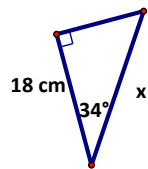
4. Solve for the side x . (Round all final answers to 2 decimal places)

a)



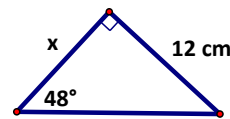
$x \approx$ _____

b)



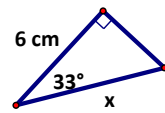
$x \approx$ _____

c)



$x \approx$ _____

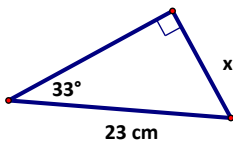
d)



$x \approx$ _____

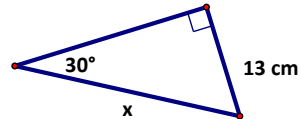
5. Solve for the missing information. (Round all final answers to 2 decimal places)

a)



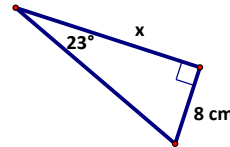
$x \approx$ _____

b)



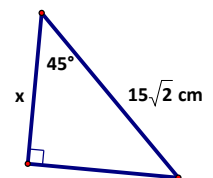
$x \approx$ _____

c)



$x \approx$ _____

d)



$x \approx$ _____