

Geometry (G.SRT.6)

Unit 8 Notes2

I can calculate unknown sides of right triangles using trigonometric functions.

Name: _____

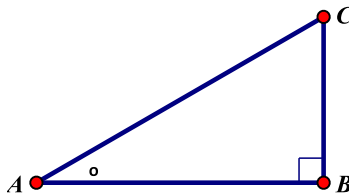
Date: _____ Period: _____

Hypotenuse -- Longest Side -- Always Opposite the Right Angle.

Opposite Leg -- Leg of the triangle that does not form the reference angle.

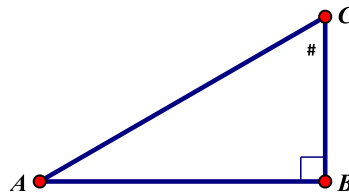
Adjacent Leg -- Non-Hypotenuse leg of the reference angle.

Correctly Label the sides.



Reference Angle is $\angle A$

Correctly Label the Sides

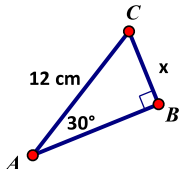


Reference Angle is $\angle C$

The Sine Ratio (sin)	The Cosine Ratio (cos)	The Tangent Ratio (tan)

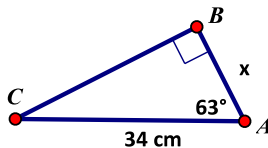
Label the sides of the triangle using the reference angle -- (O) for Opposite, (A) for Adjacent and (H) for Hypotenuse. After you have labeled the triangle, then choose which trigonometric ratio that you would use to solve for the missing info.

a)



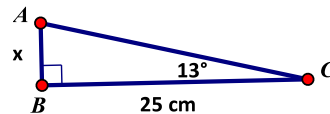
SIN COS TAN

b)



SIN COS TAN

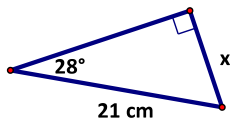
c)



SIN COS TAN

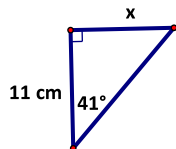
Solve for the side x. (Round all final answers to 2 decimal places)

a)



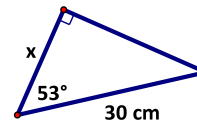
$x \approx$ _____

b)



$x \approx$ _____

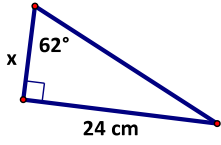
c)



$x \approx$ _____

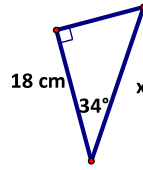
Solve for the side x . (Round all final answers to 2 decimal places)

a)



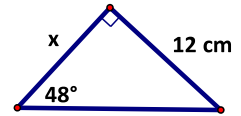
$x \approx$ _____

b)



$x \approx$ _____

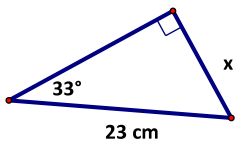
c)



$x \approx$ _____

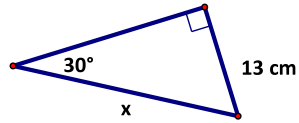
Solve for the missing information. (Round all final answers to 2 decimal places)

a)



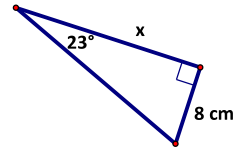
$x \approx$ _____

b)



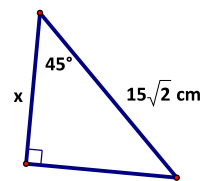
$x \approx$ _____

c)



$x \approx$ _____

d)



$x \approx$ _____