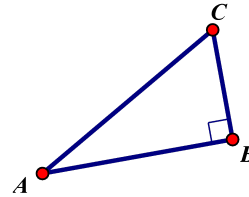


The Sine Ratio (sin)	The Cosine Ratio (cos)	The Tangent Ratio (tan)
$\sin \theta = \frac{\text{Opposite}}{\text{Hypotenuse}}$	$\cos \theta = \frac{\text{Adjacent}}{\text{Hypotenuse}}$	$\tan \theta = \frac{\text{Opposite}}{\text{Adjacent}}$

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

g)

SIN COS TAN

h)

SIN COS TAN

SIN COS TAN

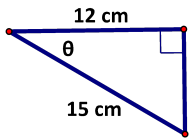
SIN COS TAN

SIN COS TAN

SIN COS TAN

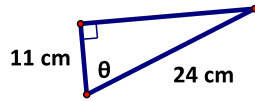
3. Solve the angle. (Round all final answers to 2 decimal places)

a)



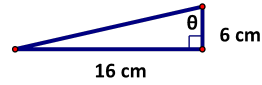
$\theta \approx$  \_\_\_\_\_

b)



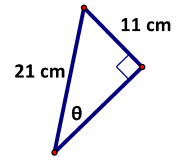
$\theta \approx$  \_\_\_\_\_

c)



$\theta \approx$  \_\_\_\_\_

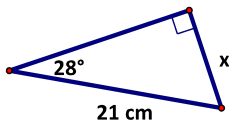
d)



$\theta \approx$  \_\_\_\_\_

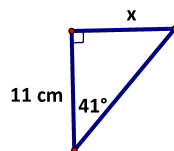
4. Solve for the side x. (Round all final answers to 2 decimal places)

a)



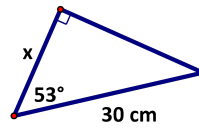
$x \approx$  \_\_\_\_\_

b)



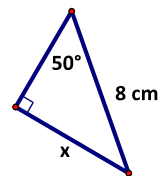
$x \approx$  \_\_\_\_\_

c)



$x \approx$  \_\_\_\_\_

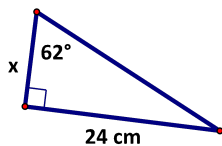
d)



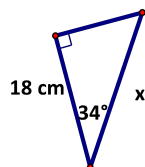
$x \approx$  \_\_\_\_\_

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

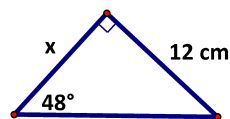
a)



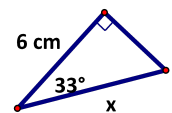
b)



c)



d)



$x \approx$  \_\_\_\_\_

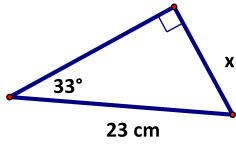
$x \approx$  \_\_\_\_\_

$x \approx$  \_\_\_\_\_

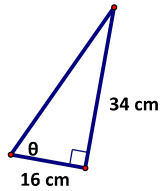
$x \approx$  \_\_\_\_\_

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

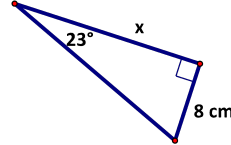
a)



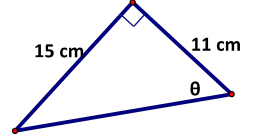
b)



c)



d)



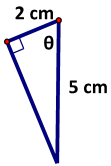
$x \approx$  \_\_\_\_\_

$\theta \approx$  \_\_\_\_\_

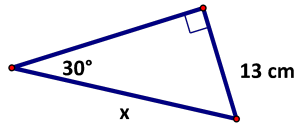
$x \approx$  \_\_\_\_\_

$\theta \approx$  \_\_\_\_\_

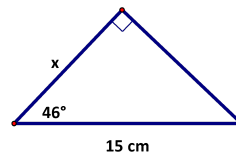
e)



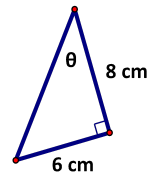
f)



g)



h)



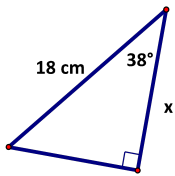
$\theta \approx$  \_\_\_\_\_

$x \approx$  \_\_\_\_\_

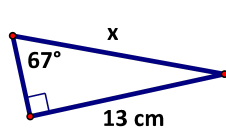
$x \approx$  \_\_\_\_\_

$\theta \approx$  \_\_\_\_\_

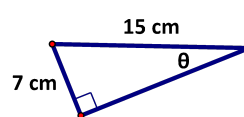
i)



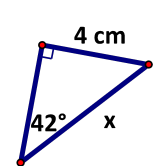
j)



k)



l)



$x \approx$  \_\_\_\_\_

$x \approx$  \_\_\_\_\_

$\theta \approx$  \_\_\_\_\_

$x \approx$  \_\_\_\_\_

m)

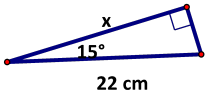
n)

o)

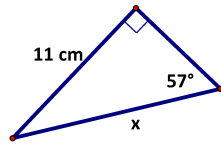
p)

G.SRT.C.6 WORKSHEET #1 – geometrycommoncore

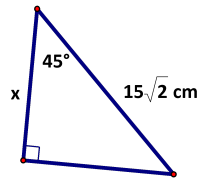
4



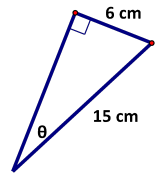
$x \approx$  \_\_\_\_\_



$x \approx$  \_\_\_\_\_



$x \approx$  \_\_\_\_\_



$\theta \approx$  \_\_\_\_\_