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QUESTION 1



Drag and drop the correct answer into the space(s) provided.

Determine the exact value of

$\cos \theta$

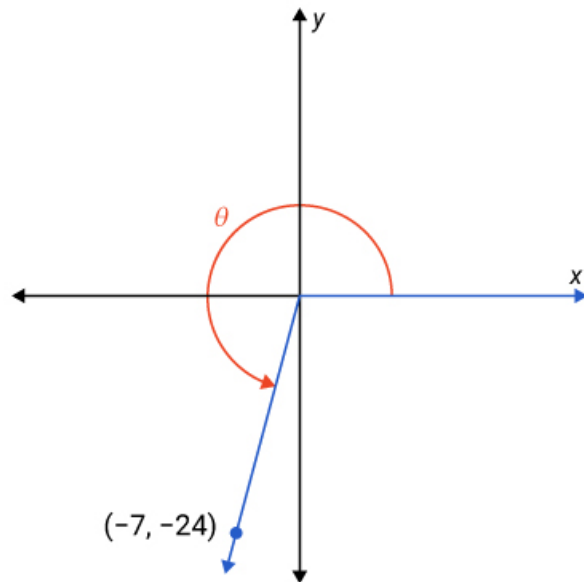
.

$\cos$

θ

=

$$-\frac{7}{25}$$



QUESTION 2



Drag and drop the correct answer into the space(s) provided.

Let

$(-15, 8)$

be a point on the terminal side of angle

θ

in standard position. Find the exact values of the 6 trig functions.

$\cos$

θ

$$= -\frac{15}{17} \quad \checkmark \quad \sin$$

 θ

$$= \frac{8}{17} \quad \checkmark \quad \tan$$

 θ

$$= -\frac{8}{15} \quad \checkmark$$

sec

 θ

$$= -\frac{17}{15} \quad \checkmark \quad \csc$$

 θ

$$= \frac{17}{8} \quad \checkmark \quad \cot$$

 θ

$$= -\frac{15}{8} \quad \checkmark$$

QUESTION 3



Drag and drop the correct answer into the space(s) provided.

Let

$(-20, 21)$

be a point on the terminal side of angle

θ

in standard position. Find the exact values of the 6 trig functions.

$\cos$

θ

$$= -\frac{20}{29} \quad \checkmark$$

$\sin$

θ

$$= \frac{21}{29} \quad \checkmark$$

$\tan$

θ

$$= -\frac{21}{20} \quad \checkmark$$

$\sec$

θ

$$= -\frac{29}{20} \quad \checkmark$$

$\csc$

θ

$$= \frac{29}{21} \quad \checkmark$$

$\cot$

θ

$$= -\frac{20}{21} \quad \checkmark$$

QUESTION 4



Drag and drop the correct answer into the space(s) provided.

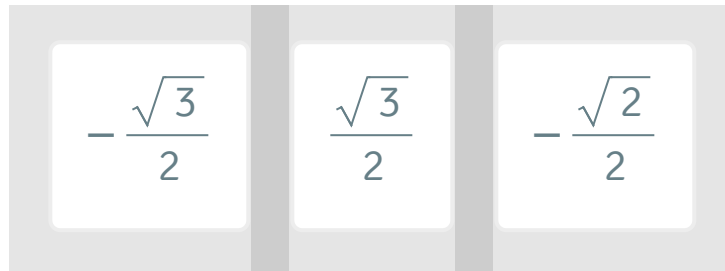
What is the exact value of

$$\cos 300^\circ$$

?

$$\cos 300^\circ =$$

$$\frac{1}{2}$$



QUESTION 5



Drag and drop the correct answer into the space(s) provided.

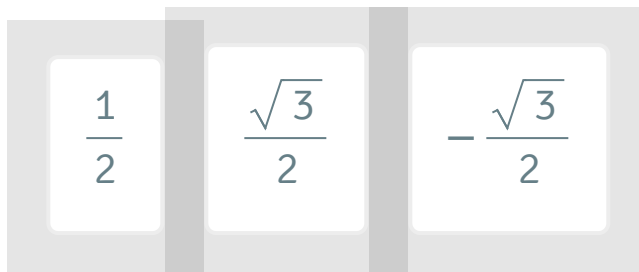
Determine the exact value of

$$\sin \frac{7\pi}{6}$$

.

$$\sin \frac{7\pi}{6} =$$

$$-\frac{1}{2}$$



QUESTION 6



Fill in the blank(s) with the correct answer.

Find the exact value of

$$\sec 180^\circ$$

.

$$\sec 180^\circ =$$

$$-1$$



QUESTION 7



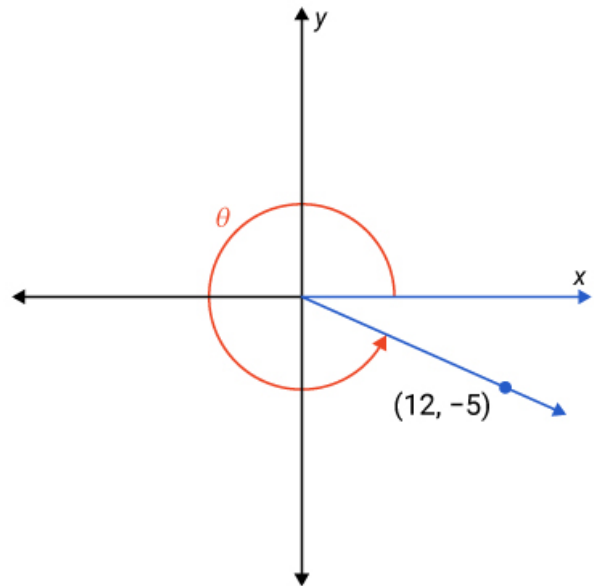
Choose the correct answer from the drop-down menu.

Find the distance of
 $P(12, -5)$
 to the origin.

$r =$

$$\sqrt{12^2 + (-5)^2} \quad \checkmark \quad \blacktriangledown =$$

$$13 \quad \checkmark \quad \blacktriangledown$$



QUESTION 8



Choose the correct answer from the drop-down menu.

What is the reference angle of

$$\frac{2\pi}{3}$$

?

The reference angle of

$$\frac{2\pi}{3}$$

is

$$\frac{\pi}{3} \quad \checkmark \quad \blacktriangledown$$

QUESTION 9



Choose the correct answer from the drop-down menu.

What is the exact value of

$$\sin \frac{5\pi}{4}$$

?

The angle is in Quadrant III ✓ ▼, so

$$\sin \frac{5\pi}{4}$$

is negative ✓ ▼.

The reference angle for

$$\frac{5\pi}{4}$$

is $\frac{\pi}{4}$ ✓ ▼.

$$\sin \frac{5\pi}{4} =$$

$-\frac{\sqrt{2}}{2}$ ✓ ▼

QUESTION 10



Choose the correct answer from the drop-down menu.

Determine the exact value of

$$\cos 150^\circ$$

.

The angle is in Quadrant , so

$$\cos 150^\circ$$

is .

The reference angle for

$$150^\circ$$

is .

$$\cos 150^\circ =$$

QUESTION 11



Choose the correct answer from the drop-down menu.

Let

$$(-40, -9)$$

be a point on the terminal side of angle

θ

in standard position. Find the exact values of the 6 trig functions.

cos

 θ

$$= -\frac{40}{41} \quad \checkmark \quad \blacktriangledown \quad \sin$$

 θ

$$= -\frac{9}{41} \quad \checkmark \quad \blacktriangledown \quad \tan$$

 θ

$$= \frac{9}{40} \quad \checkmark \quad \blacktriangledown$$

sec

 θ

$$= -\frac{41}{40} \quad \checkmark \quad \blacktriangledown \quad \csc$$

 θ

$$= -\frac{41}{9} \quad \checkmark \quad \blacktriangledown \quad \cot$$

 θ

$$= \frac{40}{9} \quad \checkmark \quad \blacktriangledown$$



Choose the correct answer from the drop-down menu.

What is the exact value of

$\tan \pi$

?

$\tan \pi =$

0 ✓ ▼

QUESTION 13



Select the correct option.

Determine the exact value of

$\sin 270^\circ$

.

☐ 1

☒ -1 ✓

☐ undefined

☐ 0

QUESTION 14



Select the correct option.

Determine the exact value of

$$\sin \frac{7\pi}{6}$$

.

☒ $-\frac{1}{2}$



$-\frac{\sqrt{3}}{2}$



$\frac{1}{2}$



$\frac{\sqrt{3}}{2}$

QUESTION 15



Select the correct option.

What is the exact value of

$$\sin \frac{5\pi}{3}$$

?



$$\frac{\sqrt{3}}{2}$$



$$\frac{1}{2}$$



$$-\frac{1}{2}$$

☒
$$-\frac{\sqrt{3}}{2}$$



$$-\frac{1}{2}$$

QUESTION 16



Fill in the spaces the steps of finding the coordinates of point P .

 $r =$ 

and

$\theta =$

90



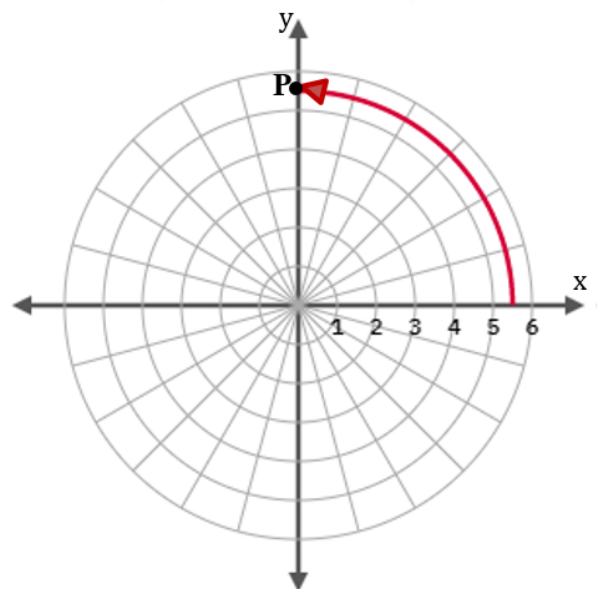
°

 $x =$

0

 $y =$

5.5



QUESTION 17



A point

 $A(x, y)$

is on the terminal side of an angle

 θ

in standard position. Given that

$$\sec \theta = \frac{5}{3}$$

and

$$\tan \theta < 0$$

.

What is true about point A ? $r = 5$ 

☐ $r = \sqrt{5}$

☐ $x = -3$ and $y = 4$

☒ $x = 3$ and $y = -4$



☐ $x = -3$ and $y = 5$

☐ $r = -5$

QUESTION 18



A point

$$A(x, y)$$

is on the terminal side of an angle

$$\theta$$

in standard position. Given that

$$\cot \theta = -\frac{6}{7}$$

and

$$\cos < 0$$

, what are the values of

$$x$$

and

 y

?

 $x =$ 

and

 $y =$ 

QUESTION 19



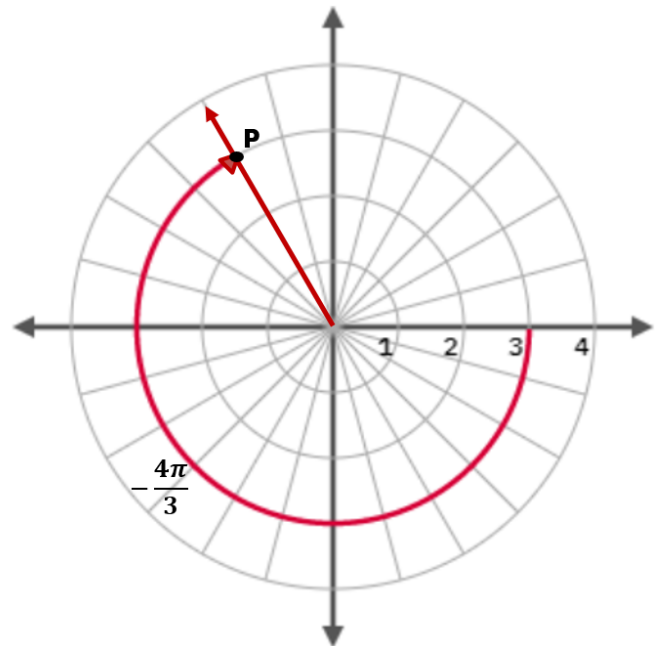
Use the diagram below to answer the following questions.

Choose the correct answers from the drop-down menu.

The reference angle is



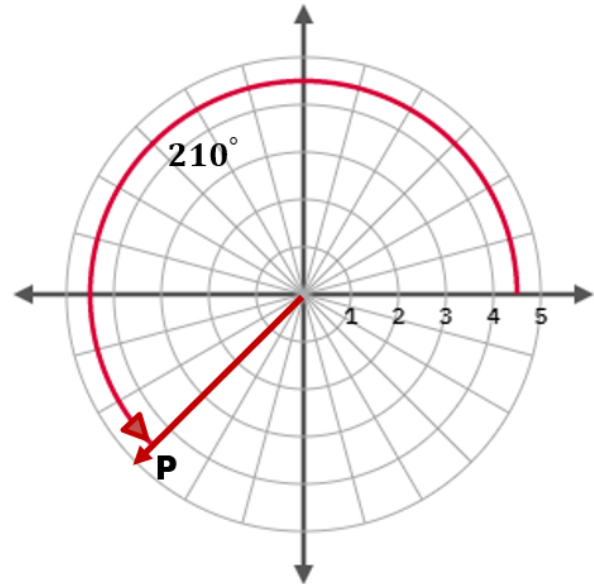
The coordinates of P are



QUESTION 20



Find the reference angle and the coordinates of P .



$$x = \frac{-9\sqrt{3}}{4}$$

and

$$y = \frac{-9}{4}$$



$$x = \frac{-\sqrt{3}}{2}$$

and

$$y = \frac{-1}{2}$$



Reference angle
= -30°

Reference angle

$$= 30^\circ$$


☐

$$x = -4.5$$

and

$$y = \frac{-9\sqrt{3}}{4}$$

☐

$$x = \frac{-9}{4}$$

and

$$y = \frac{-9\sqrt{3}}{4}$$

QUESTION 21



A point

$$A(x, y)$$

is on the terminal side of an angle

θ

in standard position. Given that

$$\sin \theta = \frac{4}{7}$$

and

$$\cot \theta > 0$$

, what are the values of

x

and

 y

?

☒ $x = \sqrt{33}$ and $y = 4$



☐ $x = -\sqrt{65}$ and $y = 4$

☐ $x = -\sqrt{33}$ and $y = 4$

☐ $x = \sqrt{65}$ and $y = \sqrt{33}$

QUESTION 22

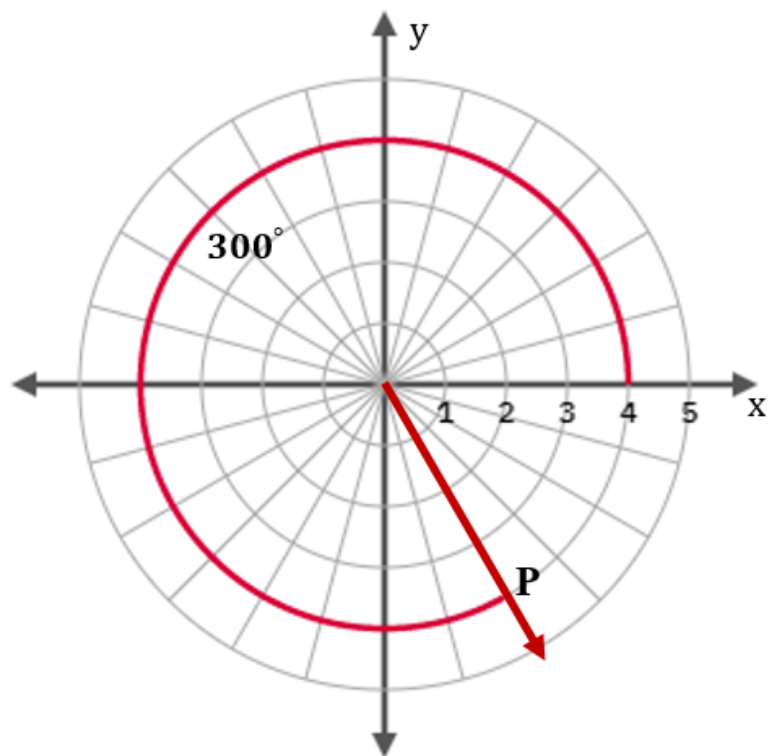


Select the correct answer.

Using the figure below, the coordinates of P are

☒ $(2, -2\sqrt{3})$





QUESTION 23



A point

$C(x, y)$

is on the terminal side of an angle

θ

in standard position. Given that

$$\sin \theta = \frac{3}{5}$$

and

$$\cos \theta < 0$$

, what are the possible values of

x

and

y

?

☐ $x = -4$ and $y = -3$

☐ $x = 4$ and $y = -3$

☐ $x = 4$ and $y = 3$

☒ $x = -4$ and $y = 3$



QUESTION 24



A point

$$A(x, y)$$

is on the terminal side of an angle

 θ

in standard position. Given that

$$\tan \theta = \frac{5}{12}$$

and

$$\sin \theta < 0$$

, what are the possible values of

 x

and

y

?

☒ $x = -12$ and $y = -5$



☐ $x = -5$ and $y = -12$

☐ $x = 12$ and $y = 5$

☐ $x = 5$ and $y = 12$