

Quiz 36 April 26

Find all the solutions (in radians) to $\cot 4u = -\sqrt{3}$

Quiz 35 April 19

Find the exact value of $\cot \left[\sin^{-1} \left(-\frac{\sqrt{7}}{5} \right) \right]$

Quiz 34 April 17

Find the exact value of $\text{Arc cos} \left(-\frac{\sqrt{2}}{2} \right)$ and $\cos^{-1} 0$

Quiz 33 April 14

Find the exact value of $\sin^{-1} \left(\frac{1}{2} \right)$ and $\text{Arc sin} (-1)$

Quiz 32 April 12

Sketch two cycles of the graph of $y = 4 \cot \left(-3x + \frac{\pi}{2} \right)$

Quiz 31 April 10

Sketch two cycles of the graph of $y = \tan \left(x + \frac{2\pi}{3} \right)$

Quiz 30 April 5

Sketch two cycles of the graph of $y = \frac{1}{2} \csc 6x$

Quiz 29 April 5

Sketch two cycles of the graph of $y = -6 \sec 4\pi x$

Quiz 28 April 3

Sketch one cycle of the graph of $y = 3 \cos \left(\frac{x}{2} + \frac{\pi}{4} \right)$

Quiz 27 March 31

Sketch one cycle of the graph of $y = -\frac{2}{5} \sin \left(3x - \frac{5\pi}{9} \right)$

Quiz 26 March 29

Sketch one cycle of the graph of $y = \sqrt{3} \sin \left(-\frac{8x}{5} \right)$

Quiz 25 March 27

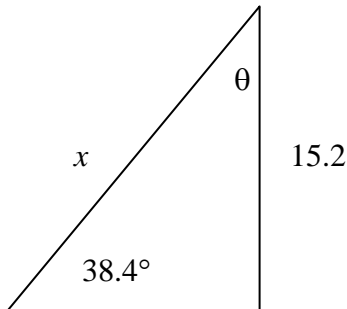
Sketch one cycle of the graph of $y = 3 \sin 7x$

Quiz 24 March 25

A balloon is 100 feet above the ground. The angle of elevation from the balloon to an observer on the ground is 28° . Find the distance from the observer to the balloon.

Quiz 23 March 22

From the top of a building, the angle of depression to an object on the ground is 73° . If the object is 20 yards from the base of the building, find the height of the building.

Quiz 22 March 20

Find x and θ .

Quiz 21 March 17

From a point A, which is 8.2 meters above the ground, the angle of elevation to the top of a building is 31.33° and the angle of depression to the base of the building is 12.67° . Find the height of the building.

Quiz 20 March 15

- Use a right triangle to find the exact value of $\sin \alpha$ and $\sec \alpha$ if $\cot \alpha = \frac{\sqrt{6}}{3}$ and $\cos \alpha < 0$.

Quiz 19 March 13

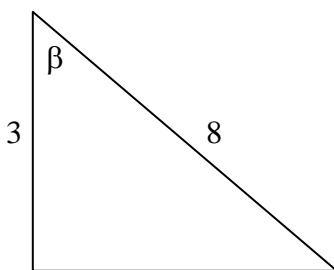
- If $\tan \beta < 0$ and $\csc \beta > 0$, then β lies in which quadrant?

Quiz 18 March 3

- If $\sin \alpha = \frac{2}{7}$ and α is an acute angle, then find the exact value of $\sec \alpha$ and $\tan \alpha$.

Quiz 17 March 1

- Given the triangle below, find $\sin \beta$ and $\cot \beta$.

**Quiz 16 February 27**

- If $(-6, 3)$ is a point on the terminal side of the angle α , then find $\cos \alpha$ and $\csc \alpha$.

Quiz 15 February 20

1. Find the exact value of $\tan\left(-\frac{197\pi}{6}\right)$.

No quiz on February 17

Quiz 14 February 15

1. Find the exact value of $\csc\left(\frac{77\pi}{3}\right)$.

Quiz 13 February 13

1. Find an angle between 0 and 2π that is coterminal with $\frac{51\pi}{4}$
2. Find an angle between -2π and 0 that is coterminal with $-\frac{139\pi}{6}$

Quiz 12 February 10

Find the exact value of the following:

1. $\cos\left(-\frac{11\pi}{6}\right)$
2. $\cot 240^\circ$

Quiz 11 February 8

Find the exact value of the following:

1. $\csc(-120^\circ)$ Location of -120° Reference Angle
2. $\tan 150^\circ$ Location of 150° Reference Angle

Quiz 10 February 6

Find the exact value of the following:

1. $\tan\left(-\frac{3\pi}{4}\right)$ Location of $-\frac{3\pi}{4}$
2. $\sec\left(\frac{11\pi}{6}\right)$ Location of $\frac{11\pi}{6}$

Quiz 9 February 3

Find the reference angle for the following angles:

1. $\alpha = \frac{14\pi}{9}$
2. $\beta = -215^\circ$

Quiz 8 February 1

Find the exact value of the following:

1. $\sin\left(-\frac{3\pi}{2}\right)$
2. $\cot 60^\circ$
3. $\csc\left(\frac{\pi}{6}\right)$

Quiz 7 January 30

Find the exact value of the following:

1. $\tan\left(\frac{\pi}{4}\right)$
2. $\csc 30^\circ$
3. $\cot 0^\circ$

Quiz 6 January 27

Find the exact value of the following:

1. $\sin\left(\frac{\pi}{3}\right)$
2. $\tan\left(\frac{\pi}{6}\right)$
3. $\sec 60^\circ$

Quiz 5 January 25

Find the exact value of the following:

1. $\cos 0$
2. $\sin(-180^\circ)$
3. $\tan\left(\frac{3\pi}{2}\right)$

Quiz 4 January 23

Given the circle $x^2 + y^2 = r^2$ and $P_r(\theta)$, find $\cos \theta$, $\sin \theta$, and $\tan \theta$.

Quiz 3 January 20

Central Angle: $\theta = 100^\circ$ Radius: 6 feet

Find the length of the arc that intercepted by the angle.

Quiz 2 January 18

Convert the following angles to radians if given in degree or to degrees if given in radians:

1. $\theta = 165^\circ$
2. $\beta = -\frac{7\pi}{9}$
3. $\gamma = 4$

Quiz 1 January 13

Indicate the location of the following angles:

1. $\theta = 195^\circ$
2. $\alpha = -308^\circ$
3. $\beta = 270^\circ$