

Each quiz is worth 9 points.

Quiz 35 Dec 3

Find all the exact solutions for the equation $\cos \beta = -\frac{1}{2}$.

Scores: 9, 9, 9, 8, 8, 7, 7, 7, 5, 5, 5, 5, 4, 3, 3, 2, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0

Quiz 34 Nov 30

Find the exact value of $\cot \left[\cos^{-1} \left(-\frac{\sqrt{15}}{8} \right) \right]$.

Scores: 8, 7, 5, 5, 4, 4, 4, 4, 4, 3, 3, 2, 2, 0, 0, 0, 0, 0, 0, 0, 0

Quiz 33 Nov 28

Find the exact value of:

1. $\text{Arc tan } 0$
2. $\tan^{-1} \left(-\frac{1}{\sqrt{3}} \right)$
3. $\tan^{-1} 1$

Scores: 9, 9, 9, 9, 9, 9, 6, 6, 6, 6, 6, 6, 3, 3, 3, 3, 3, 3, 3, 0, 0, 0, 0

Quiz 32 Nov 26

Find the exact value of:

1. $\sin \left(\sin^{-1} \frac{\pi}{3} \right)$
2. $\text{Arc cos} \left[\cos \left(-\frac{7\pi}{6} \right) \right]$

Scores: 7, 4, 3, 2, 2, 2, 2, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0

Quiz 31 Nov 19

Find the exact value of:

1. $\cos^{-1} \frac{\sqrt{2}}{2}$
2. $\text{Arc cos} \left(-\frac{\sqrt{3}}{2} \right)$
3. $\cos^{-1} 0$

Scores: 9, 9, 6, 6, 6, 6, 6, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 0, 0, 0, 0

Quiz 30 Nov 14

Find the exact value of :

1. $\sin^{-1} \frac{1}{2}$
2. $\text{Arc sin} (-1)$
3. $\sin^{-1} \left(-\frac{\sqrt{2}}{2} \right)$

Scores: 9, 9, 9, 9, 9, 9, 9, 9, 6, 6, 6, 6, 6, 6, 6, 3, 3, 3, 3, 3, 0, 0, 0, 0

Quiz 29 Nov 9

Sketch two cycles of the graph of $y = \sqrt{7} \tan \left(3x - \frac{\pi}{4} \right)$

Scores: 9, 7, 7, 6, 6, 6, 5, 5, 5, 4, 3, 2, 2, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0

Quiz 28 Nov 7

Sketch two cycles of the graph of $y = 8 \cot \left(-\frac{3x}{5} \right)$.

Scores: 9, 9, 9, 7, 6, 6, 5, 5, 4, 4, 3, 2, 2, 2, 2, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0

Quiz 27 Nov 5

Sketch two cycles of the graph of $y = -\sec\left(x + \frac{\pi}{5}\right)$

Scores: 9, 9, 7, 7, 7, 6, 6, 5, 5, 4, 4, 3, 2, 2, 2, 1, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0

Quiz 26 Nov 2

Sketch two cycles of the graph of $y = \sqrt{5} \csc\left(\frac{x}{8}\right)$.

Scores: 9, 9, 9, 9, 9, 9, 8, 8, 8, 8, 8, 7, 7, 7, 7, 7, 6, 4, 3, 1, 1, 0, 0, 0, 0, 0, 0, 0

Quiz 25 Oct 31

Sketch one cycle of the graph of $y = 7 \cos\left(3x - \frac{2\pi}{5}\right)$.

Scores: 9, 8, 8, 7, 6, 6, 4, 4, 3, 3, 3, 2, 1, 1, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0

Quiz 24 Oct 29

Sketch one cycle of the graph of $y = -\frac{3}{5} \cos(16\pi x)$.

Scores: 9, 9, 9, 9, 9, 9, 9, 8, 8, 7, 7, 7, 7, 7, 6, 6, 5, 4, 4, 2, 1, 1, 1, 1, 1, 1, 0, 0

Quiz 23 Oct 26

Sketch one cycle of the graph of $y = \sqrt{2} \sin\left(-\frac{7x}{3}\right)$.

Scores: 9, 9, 9, 9, 9, 9, 9, 8, 8, 8, 8, 7, 7, 7, 6, 6, 6, 5, 5, 5, 4, 4, 3, 3, 0

Quiz 22 Oct 24

Sketch one cycle of the graph of $y = 8 \sin 5x$.

Scores: 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 8, 8, 7, 7, 6, 4, 4, 4, 4, 3, 3, 3, 3, 2, 1, 0, 0

Quiz 21 Oct 22

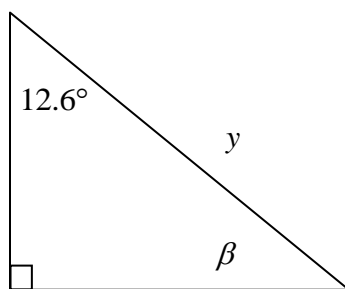
From a point P on the ground, the angle of elevation to the top of a 80-yard tree is 35° . What is the distance from the point P to the top of the tree?

Scores: 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 8, 8, 7, 7, 7, 7, 6, 6, 1, 1, 0, 0, 0, 0, 0, 0

Quiz 20 Oct 19

The angle of depression from the top of a building to an object on the ground is 32° . If the object is 75 feet from the base of the building, then find the height of the building.

Scores: 9, 8, 8, 8, 8, 8, 8, 7, 7, 7, 7, 7, 7, 6, 6, 6, 6, 5, 3, 3, 2, 1, 0

Quiz 19 Oct 17

Solve for β and y .

Scores: 9, 9, 9, 8, 8, 8, 8, 8, 8, 8, 7, 7, 7, 7, 7, 7, 6, 5, 5, 5, 4, 4, 4, 3, 3, 3, 3, 3, 2, 2, 1

Quiz 18 Oct 12

Use your calculator to approximate the following. Round your answer to the nearest ten-thousandth.

- $\sin\left(-\frac{5\pi}{17}\right)$
- $\sec 335^\circ$
- $\tan 1180^\circ$

Scores: 9, 9, 9, 9, 9, 9, 9, 9, 9, 8, 8, 8, 6, 6, 6, 6, 6, 6, 5, 4, 4, 3, 3, 3, 3, 2, 0, 0, 0

Quiz 17 Oct 10

If $\cos \theta = -\frac{3}{\sqrt{15}}$ and θ is in the II quadrant, then find the exact value of $\cot \theta$ and $\sin \theta$

using a right triangle.

Scores: 9, 9, 9, 9, 8, 8, 8, 7, 7, 7, 7, 7, 7, 7, 7, 7, 6, 6, 6, 6, 5, 5, 3, 0

Quiz 16 Oct 8

Determine the quadrant that the following angles are in.

- $\sec \alpha < 0$ and $\sin \alpha > 0$
- $\cot \beta < 0$ and $\cos \beta > 0$

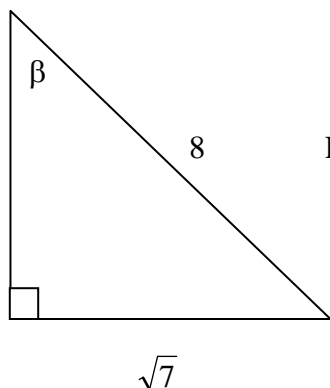
Scores: 9, 9, 9, 9, 9, 9, 8, 8, 8, 8, 7, 7, 7, 7, 6, 6, 5, 5, 4, 4, 4, 4, 4, 3, 2, 0, 0, 0

Quiz 15 Oct 5

If $\cot \theta = \frac{3}{8}$ and θ is an acute angle, then find the exact value of $\sec \theta$ and $\sin \theta$.

Scores: 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 8, 8, 8, 8, 8, 6, 6, 6, 6, 4, 4, 1

Quiz 14 Oct 3



Find the exact value of $\csc \beta$ and $\cos \beta$.

Scores: 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 8, 7, 7, 7, 7, 7, 7, 5, 5, 4, 3, 2, 1, 1, 0

Quiz 13 Oct 1

The terminal side of the angle θ lies on the line $7x - 4y = 0$ in the III quadrant. Find the exact value of $\sec \theta$ and $\tan \theta$.

Scores: 9, 9, 9, 9, 9, 8, 8, 8, 7, 7, 7, 7, 7, 7, 6, 6, 5, 5, 5, 5, 4, 4, 4, 3, 1, 1, 1, 0, 0, 0, 0

Quiz 12 Sept 28

The point $(-3, 9)$ is on the terminal side of the angle α . Find the exact value of $\sin \alpha$ and $\cot \alpha$.

Scores: 9, 9, 9, 9, 9, 9, 8, 8, 8, 8, 8, 7, 7, 7, 7, 6, 6, 4, 4, 4, 3, 1, 1, 1, 0, 0, 0

Quiz 11 Sept 26

Find the exact value of

1. $\csc \frac{259\pi}{6}$ 2. $\cos 15\pi$

Scores: 9, 9, 8, 8, 8, 8, 8, 6, 6, 6, 6, 6, 5, 5, 4, 4, 4, 4, 3, 3, 3, 2, 2, 1, 1, 1, 1, 0, 0

Quiz 10 Sept 24

1. Find the angle between 0 and 2π that is coterminal with the angle $\theta = \frac{143\pi}{5}$

2. Find the angle between -2π and 0 that is coterminal with the angle $\alpha = -\frac{68\pi}{7}$

Scores: 9, 9, 9, 9, 9, 8, 8, 8, 8, 8, 8, 7, 7, 7, 7, 6, 5, 5, 4, 4, 3, 3, 0, 0, 0, 0, 0, 0

Quiz 9 Sept 21

Find the exact value of

1. $\sec 300^\circ$ 2. $\tan \frac{4\pi}{3}$ 3. $\sin\left(-\frac{3\pi}{4}\right)$

Scores: 9, 8, 7, 7, 7, 6, 6, 6, 5, 5, 5, 5, 4, 4, 4, 4, 4, 4, 2, 2, 2, 2, 2, 2, 1, 1, 0, 0, 0, 0, 0

Quiz 8 Sept 19

Find the exact value of

1. $\cos 315^\circ$ 2. $\sin\left(-\frac{2\pi}{3}\right)$ 3. $\cot \frac{5\pi}{6}$

Scores: 9, 9, 7, 7, 7, 7, 6, 6, 5, 5, 5, 5, 3, 3, 3, 2, 2, 2, 2, 2, 1, 1, 1, 1, 1, 0, 0, 0, 0, 0, 0, 0

Quiz 7 Sept 14

Find the reference angle for the following angles:

1. $\alpha = \frac{14\pi}{17}$ 2. $\beta = -230^\circ$

Scores: 9, 9, 8, 7, 7, 6, 6, 6, 6, 6, 5, 5, 5, 5, 4, 4, 4, 3, 2, 2, 2, 2, 0, 0, 0, 0

Quiz 6 Sept 12

Find the exact value of the following:

1. $\sin \frac{\pi}{4}$ 2. $\tan \frac{\pi}{3}$ 3. $\csc 30^\circ$

Scores: 9, 9, 9, 9, 9, 9, 9, 6, 6, 6, 6, 6, 3, 3, 3, 3, 3, 3, 3, 3, 3, 1, 0, 0, 0, 0, 0, 0, 0, 0

Quiz 5 Sept 10

Find the exact value of the following:

1. $\csc(-\pi)$ 2. $\cot \frac{3\pi}{2}$ 3. $\sec 0^\circ$

Scores: 9, 9, 9, 9, 9, 9, 9, 9, 8, 6, 6, 6, 4, 4, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 0, 0, 0, 0, 0, 0, 0, 0, 0

Quiz 4 Sept 7

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

1. $\theta = 140^\circ$ 2. $\alpha = -\frac{8\pi}{15}$ 3. $\beta = 2$

Scores: 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 6, 6, 6, 6, 6, 6, 6, 3, 3, 3, 3, 3, 3, 1, 0, 0, 0, 0, 0

