

Each quiz is worth 9 points.

Quiz 30 Dec 10

Find the exact value of:

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

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

Quiz 29 Dec 8

Find the exact value of:

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

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

Quiz 28 Dec 5

Find the exact value of :

1. $\sin\left[\text{Arc sin}\left(-\frac{\pi}{2}\right)\right]$ 2. $\sin^{-1}\left(\sin\frac{4\pi}{3}\right)$

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

Quiz 27 Dec 3

Find the exact value of :

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

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

Quiz 26 Dec 1

Sketch two cycles of the graph of $y = 4 \cot\left(x + \frac{2\pi}{3}\right)$. Label the numbers on the x - and y -axes as needed. Label where the cycle begins and ends. Label the numbers in between.

Scores: 9, 9, 9, 9, 9, 8, 7, 7, 7, 7, 6, 5, 4, 4, 4, 3, 3, 3, 3, 3, 2, 2, 2, 2, 1, 1, 1, 1, 0, 0, 0, 0, 0

Quiz 25 Nov 24

Sketch two cycles of the graph of $y = 14 \tan(16\pi x)$. Label the numbers on the x - and y -axes as needed. Label where the cycle begins and ends. Label the numbers in between.

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

Quiz 24 Nov 19

Sketch two cycles of the graph of $y = -3 \sec\left(6x + \frac{5\pi}{8}\right)$. Label the numbers on the x - and y -axes as needed. Only label where each cycle begins and ends. Do not label the numbers in between.

Scores: 9, 8, 8, 7, 7, 7, 6, 6, 6, 5, 5, 4, 3, 2, 2, 2, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0

Quiz 23 Nov 17

Sketch one cycle of the graph of $y = \frac{8}{11} \sin\left(-\frac{15x}{4} + \frac{5\pi}{3}\right)$. Label the numbers on the x - and y -axes as needed. Label where the cycle begins and ends. Label the numbers in between.

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

Quiz 22 Nov 14

Sketch two cycles of the graph of $y = \sqrt{7} \cos 5x$. Label the numbers on the x - and y -axes.

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

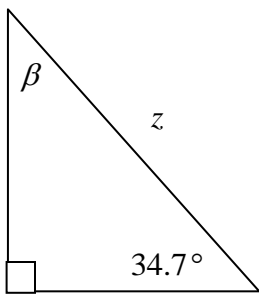
Quiz 21 Nov 12

The angle of depression from the top of a building to an object on the ground below is 48° . If the object is 240 feet from the base of the building, then find the height of the building. Round your answer to the nearest tenth.

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

Quiz 20 Nov 7

Solve for β and z (Round z to the nearest tenth):



18.3

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

Quiz 19 Nov 5

Approximate the following to four decimal places.

1. $\sec \frac{7\pi}{29}$ 2. $\tan 475^\circ$ 3. $\sin\left(-\frac{15\pi}{11}\right)$

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

Quiz 18 Oct 31

If $\cot \beta = -\frac{5}{9}$ and $\sin \beta < 0$, then use a right triangle to find the exact value of $\csc \beta$ and $\cos \beta$.

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

Quiz 17 Oct 29

If $\cos \theta = -\frac{\sqrt{10}}{6}$ and θ is in the III quadrant, then use a right triangle to find the exact value of $\sin \theta$ and $\cot \theta$.

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

Quiz 9 Oct 3

- Find the angle between 0 and 2π that is coterminal with the angle $\frac{112\pi}{3}$. (5 pts.)
- Find the angle between -2π and 0 that is coterminal with the angle $-\frac{131\pi}{9}$. (4 pts.)

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

Quiz 8 Sept 29

Find the exact value of the following: (3 pts. each)

- $\cos \frac{5\pi}{4}$
- $\tan 150^\circ$
- $\csc \left(-\frac{4\pi}{3} \right)$

Scores: 9, 8, 8, 7, 7, 7, 6, 6, 6, 6, 6, 5, 4, 4, 4, 4, 4, 3, 3, 3, 3, 3, 2, 2, 2, 2, 1, 1, 0, 0, 0, 0, 0, 0, 0

Quiz 7 Sept 26

Find the exact value of the following: (3 pts. each)

- $\cot \left(-\frac{2\pi}{3} \right)$
- $\sec \frac{3\pi}{4}$
- $\sin 210^\circ$

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

Quiz 6 Sept 22

State the location of the following angles. Then find the reference angle for each angle. Show your calculations.

- $\alpha = \frac{19\pi}{11}$ (4 pts.)
- $\beta = -220^\circ$ (3 pts.)
- $\gamma = \frac{3\pi}{2}$ (2 pts.)

Scores: 9, 9, 9, 9, 9, 9, 9, 8, 8, 7, 6, 6, 6, 6, 5, 5, 5, 5, 4, 3, 3, 3, 3, 2, 2, 2, 2, 2, 2, 1, 0, 0, 0, 0, 0, 0, 0

Quiz 5 Sept 19

Find the exact value of the following: (3 pts. each)

- $\cos 60^\circ$
- $\tan \frac{\pi}{6}$
- $\csc \frac{\pi}{3}$

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

Quiz 4 Sept 15

Find the exact value of the following: (3 pts. each)

- $\csc \pi$
- $\sin(-90^\circ)$
- $\cot \frac{\pi}{2}$

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

Quiz 3 Sept 12

If a central angle of 50° intercepts an arc of length 15 feet, then find the radius of the circle.

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

Quiz 2 Sept 10

Convert the following angles to radians if given in degrees or to degrees if given in radians: (3 pts. each)

