BACK TO OVERVIEW

Quiz #3

Attempts

Attempt 1: 90% (9/10 points), Sep 28 at 3:33pm MST

Answer explanations will be available on October 01, 2023 at 11:59 PM Mountain Standard Time.

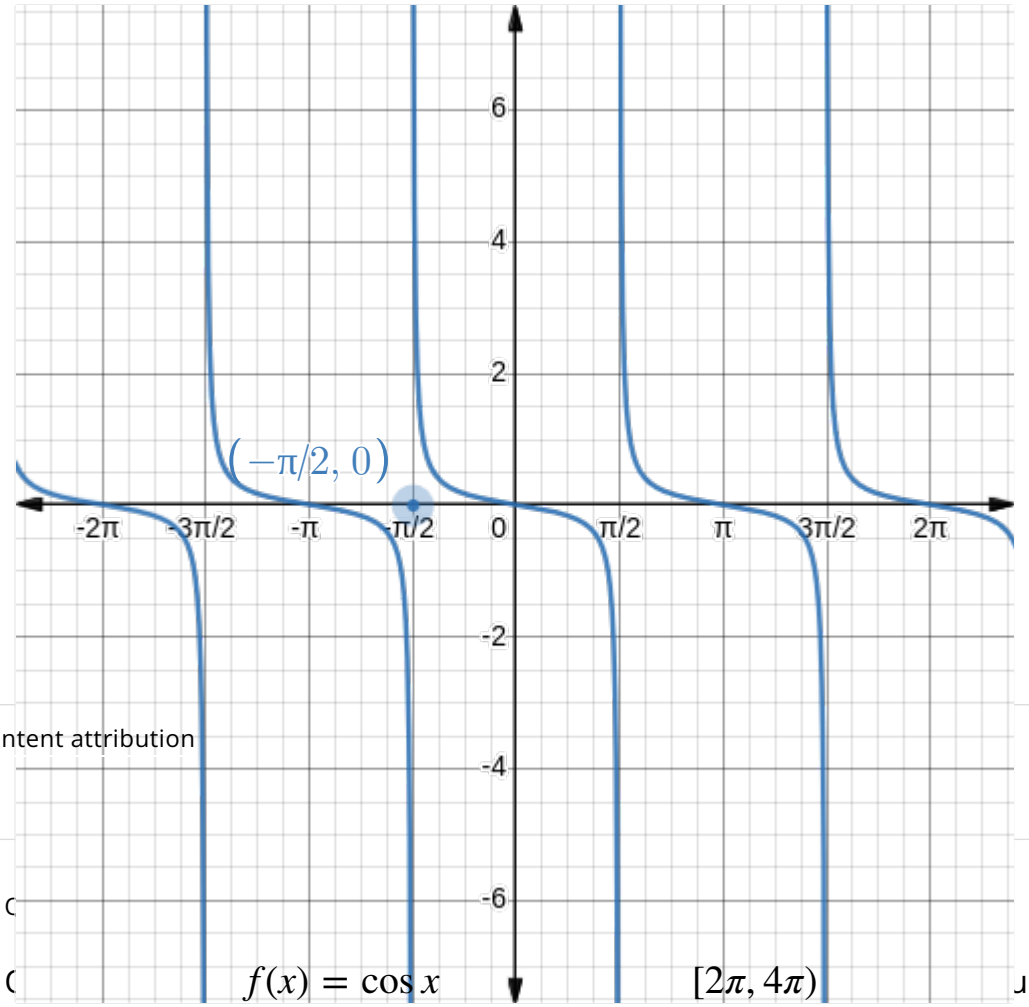
Questions to show:

All (10)

QUESTION 1 · 1/1 POINTS

Choose one point in the figure that is NOT in the domain of $f(x) = -\frac{\tan(x)}{6}$ defined in the interval $-2\pi \leq x < 0$.

That is correct!



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($f(x) = \cos x$ $[2\pi, 4\pi)$ ue(s) of x does $f(x)$ achieve a maximum?

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Enter your answer as an equation, $x = a$. If there is more than one answer, separate each equation with a comma, $x = a, x = b$.

That is correct!

$x = 2\pi$

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QUESTION 3 · 1/1 POINTS

Give the equation of an asymptote for the graph of $f(x) = \tan x$ on the interval $(-\pi, 0)$.

Enter your answer as an equation, $x = a$. If there is more than one answer, separate each equation with a comma, $x = a, x = b$.

That is correct!

$x = -\frac{\pi}{2}$

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QUESTION 4 · 1/1 POINTS

Write the interval(s) where $f(x)$ is strictly decreasing on the graph of $f(x) = \cos x$ and the domain $0 \leq x < 2\pi$.

Enter your answer using interval notation. If there is more than one answer, separate each interval with a comma.

That is correct!

$(0,\pi)$

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QUESTION 5 · 1/1 POINTS

If $g = 1170^\circ$, simplify the expression $\sin^{-1}(\sin g)$. If undefined, enter $\varnothing$.

That is correct!

90°

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QUESTION 6 · 0/1 POINTS

Write the interval(s) where $f(x)$ is strictly increasing on the graph of $f(x) = \sin x$ and the domain $-2\pi \leq x < 0$.

Enter your answer using interval notation. If there is more than one answer, separate each interval with a comma.

That's not right.

$\left(-2\pi, -\frac{3\pi}{2}\right)$

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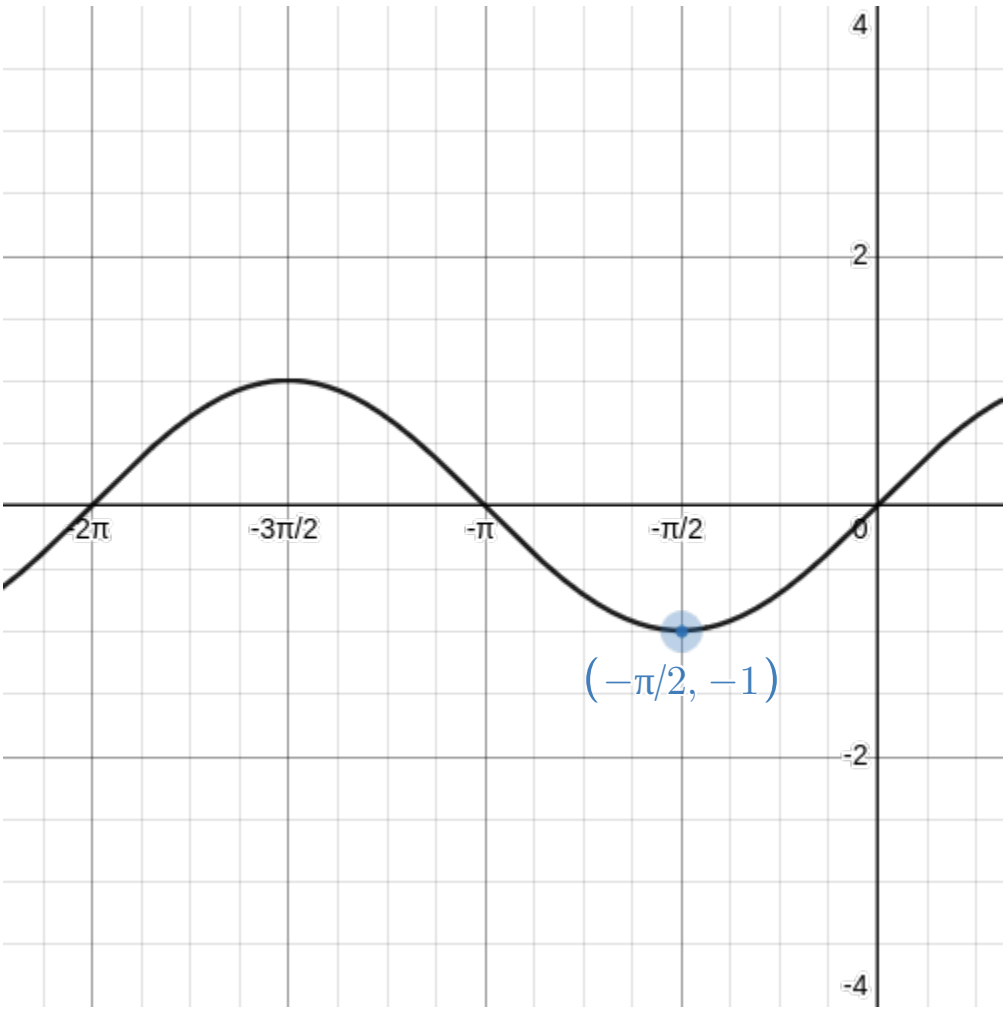
QUESTION 7 · 1/1 POINTS

On the graph of $f(x) = \sin x$ and the interval $[-2\pi, 0)$, for what value of x does $f(x)$ achieve a minimum? Choose your answer using the draggable point in the graph bel

That is correct!



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QUESTION 8 · 1/1 POINTS

Evaluate the following expression.

$$\arctan\left(-\sqrt{3}\right)$$

Report your answer as a simplified fraction.

That is correct!

$-\frac{\pi}{3}$ Radians

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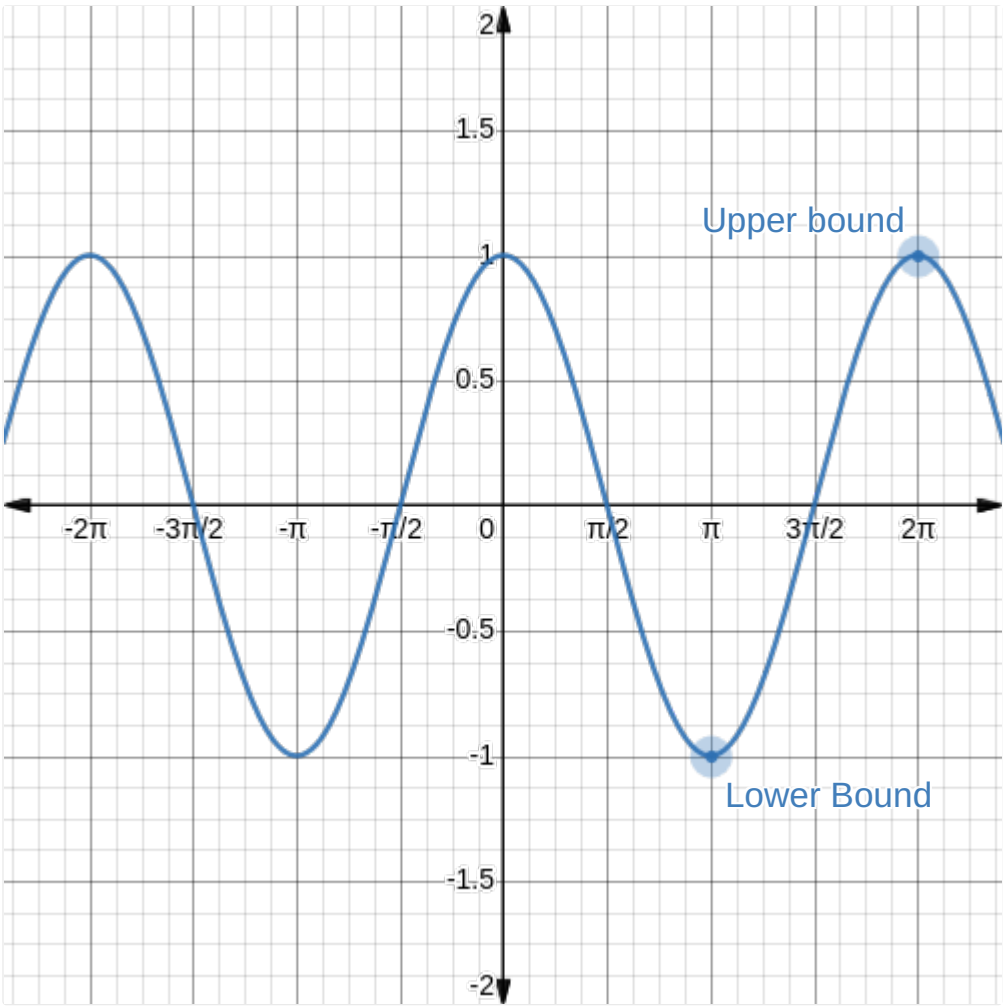
QUESTION 9 · 1/1 POINTS

On the graph of $f(x) = \cos x$ and the domain $0 \leq x < 2\pi$, for which of the following intervals is $f(x)$ strictly increasing? Choose the lower and the upper bound of this interval.

That is correct!



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QUESTION 10 · 1/1 POINTS

What is the exact value of $\sin^{-1}(\tan g)$ where $g = -\frac{37\pi}{4}$ radians?

That is correct!

$-\frac{\pi}{2}$

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