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Quiz #5

Attempts

Attempt 1: 80% (8/10 points), Oct 20 at 10:48pm MST

Answer explanations will be available on November 14, 2023 at 11:59 PM Mountain Standard Time.

Questions to show:

All (10)

QUESTION 1 · 0/1 POINTS

Given that $\cos(\theta) < 0$ and $\tan(\theta) < 0$, in which quadrant does θ lie?

That's not right.

Quadrant 3

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QUESTION 2 · 1/1 POINTS

The angle θ, drawn in standard position, intersects the unit circle at the point $\left(-\frac{24}{25}, -\frac{7}{25}\right)$. Find $\sec(\theta)$. Give an exact answer in the form of a fraction.

That is correct!

$-\frac{25}{24}$

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QUESTION 3 · 0/1 POINTS

In terms of the tangent of a positive acute angle, what is the expression for $\tan\left(\frac{27\pi}{14}\right)$?

That's not right.

$\tan\left(\frac{\pi}{14}\right)$

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QUESTION 4 · 1/1 POINTS

What is the value of $\tan\theta$ if the terminal side of angle θ intersects the unit circle in the first

quadrant at $x = \frac{40}{99}$?

Give an exact answer, using radicals as needed.

That is correct!

$\tan\theta = \frac{\sqrt{8201}}{40}$

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QUESTION 5 · 1/1 POINTS

Evaluate the following expression.

$$\text{arcsec}(-2)$$

Give your answer in radians.

That is correct!

$\text{arcsec}(-2) = \frac{2\pi}{3}$

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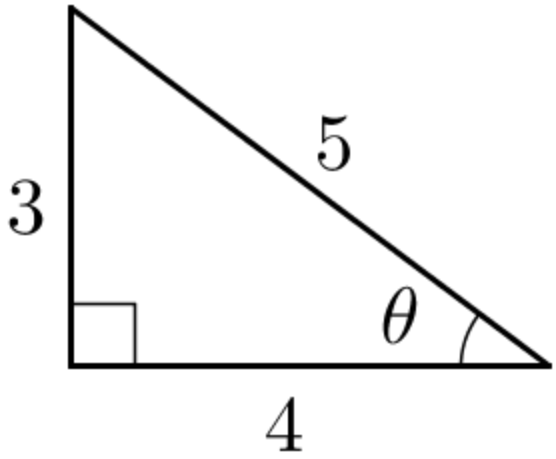
QUESTION 6 · 1/1 POINTS

Given the triangle below, find $\csc(\theta)$.



- Enter the answer as a fraction.

That is correct!

$$\csc(\theta) = \frac{5}{3}$$

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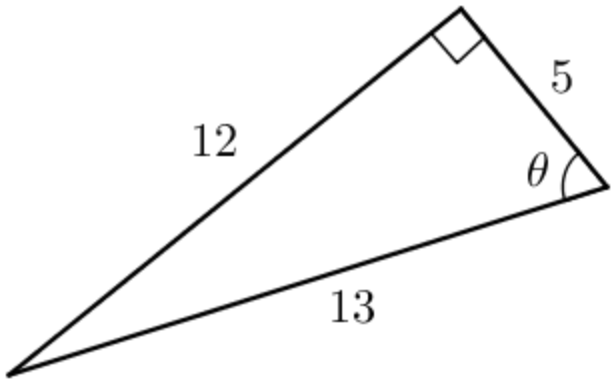
QUESTION 7 · 1/1 POINTS

Given the triangle below, find $\tan(\theta)$.

Enter an exact answer in fraction form.



That is correct!

$\frac{12}{5}$

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QUESTION 8 · 1/1 POINTS

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Given that $\sin(\theta) = -\frac{\sqrt{17}}{10}$, and θ is in Quadrant III, what is $\cos(\theta)$? Give your answer as an exact fraction with a radical, if necessary.

That is correct!

$\cos(\theta) = -\frac{\sqrt{83}}{10}$

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QUESTION 9 · 1/1 POINTS

The terminal side of angle θ intersects the unit circle in the first quadrant at $\left(\frac{3}{13}, y\right)$. What is the value of $\sec\theta$?

That is correct!

$\frac{13}{3}$

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QUESTION 10 · 1/1 POINTS

Given that $\cot(\theta) = \frac{35}{12}$ and θ is in Quadrant III, find $\sin(\theta)$ and $\tan(\theta)$.

Give exact answers in the form of a fraction.

That is correct!

$\sin(\theta) = -\frac{12}{37}$ and $\tan(\theta) = \frac{12}{35}$

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