

HOME

Find one positive and one negative coterminal angle. State your answer in exact form in radians.

$$\frac{-5\pi}{6} + 2\pi = \frac{-5\pi}{6} + \frac{12\pi}{6} = \frac{7\pi}{6}$$

$$\frac{-5\pi}{6} - 2\pi = \frac{-5\pi}{6} - \frac{12\pi}{6} = \frac{-17\pi}{6}$$

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Oct 1-9:58 AM

Express the angle in radian measure. State the quadrant in which the angle lies. Round your answer to the nearest thousandth.

47°13'

47 2nd Angle °
13 2nd Angle ' QI

$$47.217^\circ \times \frac{\pi}{180} = .824$$

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Oct 1-9:59 AM

Sketch a right triangle corresponding to the trigonometric function of the acute angle. Find the indicated function. State your answer in exact form.

$\cot \theta = 6, \cos \theta = ?$

$\frac{\text{adj}}{\text{opp}} = \frac{6}{1}$

$1^2 + 6^2 = c^2$
 $1 + 36 = c^2$
 $37 = c^2$
 $\sqrt{37} = c$

$\cos \theta = \frac{6}{\sqrt{37}}$

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Oct 1-10:01 AM

Use a calculator to evaluate the trigonometric function. If you miss this on the test, I will cry.

$$\cos(4.9) = .187$$

Mode
Radian

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Oct 1-10:07 AM

You are standing 80 meters from the base of a building. You estimate your angle of elevation to be 65 degrees.

(a) What is the approximate height of the building (round to the nearest meter).

(b) What is the distance between you and the tippy top of the building (round to the nearest meter)?

$80 \tan 65^\circ = \frac{x}{80} \cdot 80$

$172 = x$

$80^2 + 172^2 = C^2$

$35984 = C^2$

$190 \approx C$

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Oct 1-10:08 AM

A company that sells seasonal products forecasts monthly sales over a 5-year period to be

$$S = 20.1 + .57t + 3.9 \sin \frac{\pi t}{6}$$

where S is measured in hundreds of units and t is time (in months). With t=1 representing January 2012, predict the number of sales for March 2013.

Mode
Radians

$t = 15$

32.55×100

3,255

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Oct 1-10:31 AM

Graph one period of the function. State the period and amplitude.

amp = 4
period = 2π

$y = 4 \cos(x + \pi/2)$

$x + \frac{\pi}{2} = 0$

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

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Oct 1-10:35 AM

Graph one period of the function. State the period and asymptotes.

$y = \cot(2x)$ $per = \frac{\pi}{2}$

$2x = 0 \quad x = 0$
 $2x = \pi \quad x = \frac{\pi}{2}$

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Oct 1-10:35 AM

Given: $\cos \theta = \frac{3}{5}, \tan \theta < 0$

Find: $\tan \theta$

$\tan \theta = -\frac{4}{3}$

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Oct 1-10:41 AM

Find the sine of the angle in standard position that passes through the point (-2, 5).

$5^2 + (-2)^2 = c^2$
 $25 + 4 = c^2$
 $29 = c^2$
 $\sqrt{29} = c$

$\sin \theta = \frac{5}{\sqrt{29}}$

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Oct 1-10:46 AM

Sketch $y = \cos(x)$ and $y = \sec(x)$. Looking at the graphs, state the domain and range for $y = \cos(x)$.

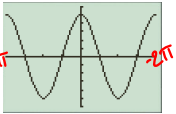
$D: (-\infty, \infty)$
 $R: [-1, 1]$

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Oct 1-10:47 AM

Find a, b, and c for the function $f(x) = a \cos(bx - c)$.

$f(x) = 5 \cos(x)$



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Oct 1-10:53 AM

Attachments

SavvyDisplayLabelDec09.pdf

Blue Brain.pdf