

THIS IS

PRECALCPARDY



Function Basics	Graphing Basics	Logs	All About Angles	Miscellaneous
<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>
<u>200</u>	<u>200</u>	<u>200</u>	<u>200</u>	<u>200</u>
<u>300</u>	<u>300</u>	<u>300</u>	<u>300</u>	<u>300</u>
<u>400</u>	<u>400</u>	<u>400</u>	<u>400</u>	<u>400</u>
<u>500</u>	<u>500</u>	<u>500</u>	<u>500</u>	<u>500</u>

Function Basics

100

Please find $f(-4)$ if

$$f(x) = \sqrt{x^2 - 5x}$$



Function Basics

200

Please find the inverse of the function

$$f(x) = \frac{x + 3}{4}$$



Function Basics

300

Please determine whether the function is even, odd or neither.

$$f(x) = x^3 - 2x^2 + x - 3$$



Function Basics

400

Please find $(\frac{f}{g})(x)$ in lowest terms if

$$f(x) = x^2 - 9x \text{ and}$$

$$g(x) = x^2 - 5x - 36$$



Function Basics

500

Please determine the domain of the function

$$f(x) = \sqrt{-4x - 22}$$



Graphing Basics

100

Please state the period of the function

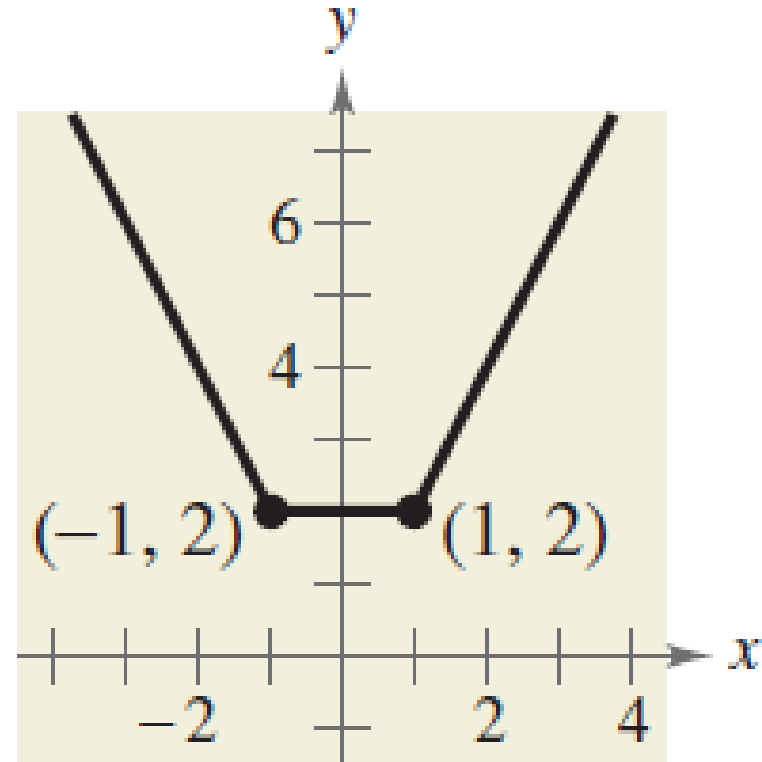
$$f(x) = 4 \cos(\pi x - 2) + 1$$



Graphing Basics

200

Identify the interval(s) on which the function is increasing, decreasing, or constant



Graphing Basics

300

Write an equation of a sine function that has an amplitude of 4, a vertical shift of -2 and a period of π .



Graphing Basics

DAILY DOUBLE

Please state the coordinate of the hole of the function

$$f(x) = \frac{x^2 + x - 6}{x^2 - 4}$$



Graphing Basics

500

Please state the horizontal, vertical, and slant asymptotes, as applicable of the function

$$f(x) = \frac{x^2 + 8x - 20}{x - 1}$$



Logarithms

100

Find the value of the function.

$$\log_2 \left(\frac{1}{64} \right)$$



Logarithms

200

Solve the following equation.

$$\ln(x) = 5$$



Logarithms

300

Expand the logarithm.

$$\log_3(2x^4\sqrt{y})$$



Logarithms

400

Condense the logarithm.

$$\log(6x + 2) - \left(\frac{1}{3} \log y + 2 \log z \right)$$



Logarithms

500

Solve the logarithmic equation.

$$\log(5x + 15) = 3$$



All About Angles

100

Find a positive coterminal angle
IN RADIANS for the angle $-\frac{2\pi}{3}$



All About Angles

200

A circle has a radius of 4 inches.

Find the length of the arc intercepted by a central angle of 240° .



All About Angles

300

From a lighthouse 120 meters above the sea, the angle of depression to a boat is 15° . How far is the boat from the base of the lighthouse?



All About Angles

DAILY DOUBLE

The terminal side of angle θ in standard position passes through the point $(2, -1)$. Please find $\csc \theta$.



All About Angles

500

Please give the reference
angle for $\theta = \frac{17\pi}{6}$ in
RADIANS.



Miscellaneous

100

Please convert the following to degrees and tell which quadrant the angle falls in.

-6



Miscellaneous

200

Convert the angle to decimal
degrees and round to the nearest
HUNDRETH.

$30^{\circ} 15' 50''$



Miscellaneous

300

Find $\cos \theta$, given that $\sin \theta = -\frac{5}{6}$
and θ lies in Quadrant III.



Miscellaneous

400

Evaluate the sine, cosine, and tangent of -510° .



Miscellaneous

500

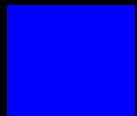
Solve the logarithmic equation:

$$\log x + \log(x - 3) = 1$$



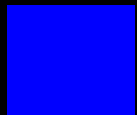
DAILY

DOUBLE



DAILY

DOUBLE



**FINAL PRE-
CALCPARDY**

Trigonometry

FINAL PRE- CALCPARDY

Find the distance in miles between the cities whose latitudes are given. Assume that the cities are on a north-south line and the radius of the earth is 4000 miles. Sitka, Alaska is $57^{\circ} 03' \text{ N}$, and Whiteharre, Canada is $60^{\circ} 43' \text{ N}$.



CONGRATULATIONS

TEAM 1

**GREAT JOB
EVERYONE!!!!!!**

CONGRATULATIONS

TEAM 2

**GREAT JOB
EVERYONE!!!!!!**

CONGRATULATIONS

TEAM 3

**GREAT JOB
EVERYONE!!!!!!**