





Hustle Pre-Calculus Test #643



Hustle Pre-Calculus Test #643



Hustle Pre-Calculus Test #643

-1	2	3	1	
0	3	4	- 5	_
1	0	0	- 2	_
5	1	- 3	2	

## #1 Pre-calculus – Hustle MAO National Convention 2018

$$\begin{vmatrix} -1 & 2 & 3 & 1 \\ 0 & 3 & 4 & -5 \\ 1 & 0 & 0 & -2 \\ 5 & 1 & -3 & 2 \end{vmatrix} =$$

Answer : \_\_\_\_\_

Round 1 2 3 4 5

Answer : \_\_\_\_\_

Round 1 2 3 4 5

## #1 Pre-calculus – Hustle MAO National Convention 2018

[	1	3	2	L	-1	
5	—	4	3	) 3	0	
2	- 2	0	)	(	1	
2	2	- 3	1	5	5	

### #1 Pre-calculus – Hustle MAO National Convention 2018

$$\begin{vmatrix} -1 & 2 & 3 & 1 \\ 0 & 3 & 4 & -5 \\ 1 & 0 & 0 & -2 \\ 5 & 1 & -3 & 2 \end{vmatrix} =$$

Answer : \_\_\_\_\_

Round 1 2 3 4 5

Answer : \_\_\_\_\_

How many total asymptotes (vertical, horizontal, or slant) does the function have?

$$f(x) = \frac{x^3 - 8}{x^2 - 3x - 4}$$

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Answer : \_\_\_\_\_

Round 1 2 3 4 5

Answer : \_\_\_\_\_

Round 1 2 3 4 5

# #2 Pre-calculus – Hustle MAO National Convention 2018

How many total asymptotes (vertical, horizontal, or slant) does the function have?

$$f(x) = \frac{x^3 - 8}{x^2 - 3x - 4}$$

# #2 Pre-calculus – Hustle MAO National Convention 2018

How many total asymptotes (vertical, horizontal, or slant) does the function have?

$$f(x) = \frac{x^3 - 8}{x^2 - 3x - 4}$$

Answer	:							Answer	:	
Round	1	2	3	4	5			Round	1	

Find the area of  $\triangle ABC$  if a = 9, b = 12, and  $\angle C = 60^{\circ}$ . Sides are labeled with the same letters as the angle opposite them.

## #3 Pre-calculus – Hustle MAO National Convention 2018

Find the area of  $\triangle ABC$  if a = 9, b = 12, and  $\angle C = 60^{\circ}$ . Sides are labeled with the same letters as the angle opposite them.

Answer :
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Round 1 2 3 4 5

Answer : \_\_\_\_\_

Round 1 2 3 4 5

### #3 Pre-calculus – Hustle MAO National Convention 2018

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Answer	:						Answer	·:					
Round	1	2	3	4	5		Round	1	2	3	4	5	

$$\cos\left(2\sin^{-1}\left(-\frac{1}{3}\right)\right) + \tan\left(\sec^{-1}\left(-\frac{13}{12}\right)\right) =$$

#4 Pre-calculus – Hustle MAO National Convention 2018

$$\cos\left(2\sin^{-1}\left(-\frac{1}{3}\right)\right) + \tan\left(\sec^{-1}\left(-\frac{13}{12}\right)\right) =$$

Answer : \_\_\_\_\_

Round 1 2 3 4 5

Answer : \_\_\_\_\_

Round 1 2 3 4 5

#4 Pre-calculus – Hustle MAO National Convention 2018

$$\cos\left(2\sin^{-1}\left(-\frac{1}{3}\right)\right) + \tan\left(\sec^{-1}\left(-\frac{13}{12}\right)\right) =$$

#4 Pre-calculus – Hustle MAO National Convention 2018

 $\cos\left(2\sin^{-1}\left(-\frac{1}{3}\right)\right) + \tan\left(\sec^{-1}\left(-\frac{13}{12}\right)\right) =$ 

Answer : \_\_\_\_\_

Round 1 2 3 4 5

Answer : \_\_\_\_\_

The diameter of a cylinder is equal to half of the height of the cylinder. Express the volume of the cylinder in terms of the height *h*.

# #5 Pre-calculus – Hustle MAO National Convention 2018

The diameter of a cylinder is equal to half of the height of the cylinder. Express the volume of the cylinder in terms of the height *h*.

Answer :	
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Round 1 2 3 4 5

Answer : \_\_\_\_\_

Round 1 2 3 4 5

## #5 Pre-calculus – Hustle MAO National Convention 2018

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Answer	:					Answer	:					
Round	1	2	3	4	5	Round	1	2	3	4	5	

How many times will  $y = 5 \cos x + 1$ intersect the x-axis on  $[-2\pi, 2\pi]$ ?

# #6 Pre-calculus – Hustle MAO National Convention 2018

How many times will  $y = 5 \cos x + 1$ intersect the x-axis on  $[-2\pi, 2\pi]$ ?

Answer :	
----------	--

Round 1 2 3 4 5

Answer : \_\_\_\_\_

Round 1 2 3 4 5

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Answer : \_\_\_\_\_

Round 1 2 3 4 5

Answer : \_\_\_\_\_

Given:  $3^{3^x} + 9^{3^x} = 20$  and  $\log_3 y = x$ 

Find the exact value of *y*.

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Find the exact value of *y*.

Answer	:	

Round 1 2 3 4 5

Answer : \_\_\_\_\_

Round 1 2 3 4 5

#7 Pre-calculus – Hustle MAO National Convention 2018

Given:  $3^{3^x} + 9^{3^x} = 20$  and  $\log_3 y = x$ 

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#7 Pre-calculus – Hustle MAΘ National Convention 2018

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Find the exact value of *y*.

Answer : \_\_\_\_\_

Round 1 2 3 4 5

Answer : \_\_\_\_\_

Which statement is FALSE?

A. 
$$sin^{2}\left(\frac{\pi}{2} - x\right) + sin^{2}x = 1$$
  
B.  $\frac{1}{sin^{2}x} + \left(\frac{1}{\tan x}\right)^{2} = 1$   
C.  $cos^{2}(-x) + sin^{2}(-x) = 1$   
D.  $csc^{2}x(1 - cos^{2}x) = 1$ 

Which statement is FALSE?

A. 
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Answer : \_\_\_\_\_

Round 1 2 3 4 5

Answer : \_\_\_\_\_

Round 1 2 3 4 5

### #8 Pre-calculus – Hustle MA© National Convention 2018

Which statement is FALSE?

A. 
$$sin^{2}\left(\frac{\pi}{2} - x\right) + sin^{2}x = 1$$
  
B.  $\frac{1}{sin^{2}x} + \left(\frac{1}{\tan x}\right)^{2} = 1$   
C.  $cos^{2}(-x) + sin^{2}(-x) = 1$   
D.  $csc^{2}x(1 - cos^{2}x) = 1$ 

# #8 Pre-calculus – Hustle MAO National Convention 2018

Which statement is FALSE?

A. 
$$sin^{2}\left(\frac{\pi}{2} - x\right) + sin^{2}x = 1$$
  
B.  $\frac{1}{sin^{2}x} + \left(\frac{1}{\tan x}\right)^{2} = 1$   
C.  $cos^{2}(-x) + sin^{2}(-x) = 1$ 

D. 
$$csc^2x(1 - cos^2x) = 1$$

Answer : \_\_\_\_\_

Round 1 2 3 4 5

Answer : \_\_\_\_\_

Find all solutions to the equation below:

$$x^3 + 2x^2 - 19x - 20 = 0$$

Find all solutions to the equation below:

$$x^3 + 2x^2 - 19x - 20 = 0$$

Answer : \_\_\_\_\_

Round 1 2 3 4 5

Answer : \_\_\_\_\_

Round 1 2 3 4 5

## #9 Pre-calculus – Hustle MAO National Convention 2018

Find all solutions to the equation below:

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Answer : \_\_\_\_\_

Round 1 2 3 4 5

Answer : \_\_\_\_\_

If the solutions to  $x^6 - 64 = 0$  are graphed on the complex (Argand) plane, a hexagon is formed. What is the area enclosed by the hexagon? If the solutions to  $x^6 - 64 = 0$  are graphed on the complex (Argand) plane, a hexagon is formed. What is the area enclosed by the hexagon?

Answer		
	nswer -	Inswer :

Round 1 2 3 4 5

Answer : \_\_\_\_\_

Round 1 2 3 4 5

## #10 Pre-calculus – Hustle MAO National Convention 2018

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Answer	:					Answer	:					
Round	1	2	3	4	5	Round	1	2	3	4	5	

What is the sum of the units digits of  $8^{2018}$ ,  $3^{2018}$ , and  $7^{2018}$ ?

What is the sum of the units digits of  $8^{2018}$ ,  $3^{2018}$ , and  $7^{2018}$ ?

•	
Ancwer	

Round 1 2 3 4 5

Answer : \_\_\_\_\_

Round 1 2 3 4 5

### #11 Pre-calculus – Hustle MAO National Convention 2018

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What is the sum of the units digits of  $8^{2018}$ ,  $3^{2018}$ , and  $7^{2018}$ ?

Answer : \_\_\_\_\_

Round 1 2 3 4 5

Answer : \_\_\_\_\_

Solve for *x*:

1	x	4		4	0	2
3	0	-2	=	$\mathbf{x}$	1	-1
1	-1	3		0	3	2

Solve for *x*:

1	x	4		4	0	2
3	0	-2	=	x	1	-1
1	-1	3		0	3	2

Answer : \_\_\_\_\_

Round 1 2 3 4 5

Answer : \_\_\_\_\_

Round 1 2 3 4 5

### #12 Pre-calculus – Hustle MAO National Convention 2018

Solve for *x*:

1	x	4		4	0	2
3	0	-2	=	x	1	-1
1	-1	3		0	3	2

#12 Pre-calculus – Hustle MAO National Convention 2018

Solve for *x*:

1	x	4		4	0	2
3	0	-2	=	x	1	-1
1	-1	3		0	3	2

Answer	:					 -			
Round	1	2	3	4	5				

Round 1 2 3 4 5

Answer : \_\_\_\_\_

If  $f(x) = x^2 + 3x$ , then what is the sum of the solutions to  $f \circ f(x) = 0$ ?

If  $f(x) = x^2 + 3x$ , then what is the sum of the solutions to  $f \circ f(x) = 0$ ?

Answer : \_\_\_\_\_

Round 1 2 3 4 5

Answer : \_\_\_\_\_

Round 1 2 3 4 5

#### #13 Pre-calculus – Hustle MAO National Convention 2018

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Answer	;	

Round 1 2 3 4 5

Answer : \_\_\_\_\_

The vector from the origin to  $(-4, 4\sqrt{3})$  is rotated 150<sup>o</sup> clockwise about the origin. What is the terminal point (a, b) of the resulting vector?

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Answer :
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Round 1 2 3 4 5

Answer : \_\_\_\_\_

Round 1 2 3 4 5

## **#14 Pre-calculus - Hustle MAO** National Convention 2018

The vector from the origin to  $(-4, 4\sqrt{3})$  is rotated 150<sup>o</sup> clockwise about the origin. What is the terminal point (a, b) of the resulting vector?

# **#14 Pre-calculus – Hustle MAO** National Convention 2018

The vector from the origin to  $(-4, 4\sqrt{3})$  is rotated 150<sup>o</sup> clockwise about the origin. What is the terminal point (a, b) of the resulting vector?

Answer :						Answer :							
Round	1	2	3	4	5	Round	1	2	3	4	5		

Find the domain of the function, written in interval notation:

$$y = \log_{3x-2}\left(\frac{x-2}{x^2-9}\right)$$

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$$y = \log_{3x-2}\left(\frac{x-2}{x^2-9}\right)$$

Answer : \_\_\_\_\_

Round 1 2 3 4 5

Answer : \_\_\_\_\_

Round 1 2 3 4 5

## #15 Pre-calculus – Hustle MA© National Convention 2018

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$$y = \log_{3x-2}\left(\frac{x-2}{x^2-9}\right)$$

Answer	:	

Round 1 2 3 4 5

Answer : \_\_\_\_\_

Given:  $x = 4cis \frac{3\pi}{4}$  $y = 8cis \frac{\pi}{4}$ Find xy in a + bi form. Given:  $x = 4cis \frac{3\pi}{4}$  $y = 8cis \frac{\pi}{4}$ Find xy in a + bi form.

Answer : \_\_\_\_\_

Round 1 2 3 4 5

Answer : \_\_\_\_\_

Round 1 2 3 4 5

#16 Pre-calculus – Hustle MAO National Convention 2018

Given:  $x = 4cis \frac{3\pi}{4}$  $y = 8cis \frac{\pi}{4}$ Find xy in a + bi form. #16 Pre-calculus – Hustle MAO National Convention 2018

Given:  $x = 4cis \frac{3\pi}{4}$  $y = 8cis \frac{\pi}{4}$ Find xy in a + bi form.

Answer :	
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Round 1 2 3 4 5

Answer : \_\_\_\_\_

If  $\sin(2 \cdot x) = \frac{4}{9}$ , find  $\sin^4 x + \cos^4 x$ .

If  $\sin(2 \cdot x) = \frac{4}{9}$ , find  $\sin^4 x + \cos^4 x$ .

Answer : \_\_\_\_\_

Round 1 2 3 4 5

Answer : \_\_\_\_\_

Round 1 2 3 4 5

#17 Pre-calculus – Hustle MAO National Convention 2018

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#17 Pre-calculus – Hustle MAO National Convention 2018

If  $\sin(2 \cdot x) = \frac{4}{9}$ , find  $\sin^4 x + \cos^4 x$ .

Answer : \_\_\_\_\_

Round 1 2 3 4 5

Answer : \_\_\_\_\_

In  $\triangle ABC$ , c = 14, a = 28, and  $\angle C = 30^{\circ}$ . How many triangles are possible? Sides are labeled with the same letters as the angle opposite them. In  $\triangle ABC$ , c = 14, a = 28, and  $\angle C = 30^{\circ}$ . How many triangles are possible? Sides are labeled with the same letters as the angle opposite them.

Answer	:	
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Round 1 2 3 4 5

Answer : \_\_\_\_\_

Round 1 2 3 4 5

#### #18 Pre-calculus – Hustle MAO National Convention 2018

In  $\triangle ABC$ , c = 14, a = 28, and  $\angle C = 30^{\circ}$ . How many triangles are possible? Sides are labeled with the same letters as the angle opposite them.

### #18 Pre-calculus – Hustle MAO National Convention 2018

In  $\triangle ABC$ , c = 14, a = 28, and  $\angle C = 30^{\circ}$ . How many triangles are possible? Sides are labeled with the same letters as the angle opposite them.

Answer	:					Answer :							
Round	1	2	3	4	5	Round	1	2	3	4	5		

 $\sum_{i=1}^{12} (\cos(i\pi) + \sin(i\pi)) =$ 

 $\sum_{i=1}^{12}(\cos(i\pi)+\sin(i\pi)) =$ 

Answer : \_\_\_\_\_

Round 1 2 3 4 5

Answer : \_\_\_\_\_

Round 1 2 3 4 5

#19 Pre-calculus – Hustle MAO National Convention 2018

 $\sum_{i=1}^{12} (\cos(i\pi) + \sin(i\pi)) =$ 

#19 Pre-calculus – Hustle MAΘ National Convention 2018

 $\sum_{i=1}^{12} (\cos(i\pi) + \sin(i\pi)) =$ 

Answer : \_\_\_\_\_

Round 1 2 3 4 5

Answer : \_\_\_\_\_

What is the sum of the reciprocals of the roots of

 $P(x) = 3x^4 - 5x^3 + 20x^2 - 8x + 6?$ 

# #20 Pre-calculus – Hustle MAO National Convention 2018

What is the sum of the reciprocals of the roots of  $P(x) = 3x^4 - 5x^3 + 20x^2 - 8x + 6?$ 

Answer : \_\_\_\_\_

Round 1 2 3 4 5

Answer : \_\_\_\_\_

Round 1 2 3 4 5

## #20 Pre-calculus – Hustle MAO National Convention 2018

What is the sum of the reciprocals of the roots of

 $P(x) = 3x^4 - 5x^3 + 20x^2 - 8x + 6?$ 

## #20 Pre-calculus – Hustle MAO National Convention 2018

What is the sum of the reciprocals of the roots of  $P(x) = 3x^4 - 5x^3 + 20x^2 - 8x + 6$ ?

Answer :								Answer :								-				
Round	1	2	3	4	5							F	Round	ł	1	2	3	4	5	,

For  $y = -2 \tan \left(\frac{3\pi x}{4} - 1\right) + 4$ , let *P* be the period and let *A* be the vertical shift needed to transform y = tanx into this function. Find  $\frac{P}{A}$ .

For  $y = -2 \tan \left(\frac{3\pi x}{4} - 1\right) + 4$ , let *P* be the period and let *A* be the vertical shift needed to transform y = tanx into this function. Find  $\frac{P}{A}$ .

Round 1 2 3 4 5

Answer : \_\_\_\_\_

Round 1 2 3 4 5

### #21 Pre-calculus – Hustle MAO National Convention 2018

For  $y = -2 \tan \left(\frac{3\pi x}{4} - 1\right) + 4$ , let *P* be the period and let *A* be the vertical shift needed to transform y = tanx into this function. Find  $\frac{P}{A}$ .

# #21 Pre-calculus – Hustle MAO National Convention 2018

For  $y = -2 \tan \left(\frac{3\pi x}{4} - 1\right) + 4$ , let *P* be the period and let *A* be the vertical shift needed to transform y = tanx into this function. Find  $\frac{P}{A}$ .

Answer	:					Answer :								
Round	1	2	3	4	5	Round	1	2	3	4	5			

What is the exact value of

$$\frac{1}{\log_2 36} + \frac{1}{\log_3 36} ?$$

#### #22 Pre-calculus – Hustle MAO National Convention 2018

What is the exact value of  $\frac{1}{\log_2 36} + \frac{1}{\log_3 36}$ ?

Answer : \_\_\_\_\_

Round 1 2 3 4 5

Answer : \_\_\_\_\_

Round 1 2 3 4 5

### #22 Pre-calculus – Hustle MA© National Convention 2018

What is the exact value of  $\frac{1}{\log_2 36} + \frac{1}{\log_3 36}$ ?

#22 Pre-calculus – Hustle MAΘ National Convention 2018

What is the exact value of 
$$\frac{1}{\log_2 36} + \frac{1}{\log_3 36}$$
?

Answer : \_\_\_\_\_

Round 1 2 3 4 5

Answer : \_\_\_\_\_

A ball is dropped from a height of twenty feet. Each time it rebounds 70% of its previous height. How far, in feet, will the ball travel vertically before "coming to rest"?

# #23 Pre-calculus – Hustle MAO National Convention 2018

A ball is dropped from a height of twenty feet. Each time it rebounds 70% of its previous height. How far, in feet, will the ball travel vertically before "coming to rest"?

Answer :	
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Round 1 2 3 4 5

Answer : \_\_\_\_\_

Round 1 2 3 4 5

## #23 Pre-calculus – Hustle MAO National Convention 2018

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Answer	:					Answer :							
Round	1	2	3	4	5	Round	1	2	3	4	5		

The Cartesian point (h, k) is the center of the graph represented by the equation r =

 $\frac{3}{1-\frac{1}{3}\sin\theta}.$  What is h+k?

# #24 Pre-calculus – Hustle MAO National Convention 2018

The Cartesian point (h, k) is the center of the graph represented by the equation  $r = \frac{3}{1-\frac{1}{3}\sin\theta}$ . What is h + k?

Answer : \_\_\_\_\_

Round 1 2 3 4 5

Answer : \_\_\_\_\_

Round 1 2 3 4 5

## #24 Pre-calculus – Hustle MAO National Convention 2018

The Cartesian point (h, k) is the center of the graph represented by the equation r =

 $\frac{3}{1-\frac{1}{3}\sin\theta}$ . What is h+k?

# #24 Pre-calculus – Hustle MAO National Convention 2018

The Cartesian point (h, k) is the center of the graph represented by the equation  $r = \frac{3}{2}$  . What is  $h \pm k^2$ 

4 5

 $\frac{3}{1-\frac{1}{3}\sin\theta}$ . What is h+k?

Answer :								Answer :							
Round	1	2	3	4	5					Round	1	2	3		

**#25 Pre-calculus – Hustle** MAO National Convention 2018

Evaluate: 
$$\prod_{k=1}^{9} \left(1 + \frac{1}{k}\right)$$

Evaluate: 
$$\prod_{k=1}^{9} \left(1 + \frac{1}{k}\right)$$

Answer : \_\_\_\_\_

Round 1 2 3 4 5

Answer : \_\_\_\_\_

Round 1 2 3 4 5

**#25 Pre-calculus – Hustle** MAO National Convention 2018

Evaluate:  $\prod_{k=1}^{9} \left(1 + \frac{1}{k}\right)$ 

**#25 Pre-calculus – Hustle MAO National Convention 2018** 

Evaluate: 
$$\prod_{k=1}^{9} \left(1 + \frac{1}{k}\right)$$

Answer : \_\_\_\_\_

Round 1 2 3 4 5

Answer : \_\_\_\_\_