## #1 Precalculus – Hustle MA⊕ National Convention 2023

What unique value of x will make matrix A singular if  $A = \begin{pmatrix} 5 & x \\ 2 & 3 \end{pmatrix}$ ?

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Answer	•	
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Round 1 2 3 4 5

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Round 1 2 3 4 5

#### #2 Precalculus – Hustle MA⊕ National Convention 2023

If 
$$\overline{V} = \begin{pmatrix} -25 \\ 52x \\ -13 \end{pmatrix}$$
 and  $\overline{W} = \begin{pmatrix} x \\ 4 \\ 1 \end{pmatrix}$ , then for what value of x are  $\overline{V}$  and  $\overline{W}$  orthogonal?

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

Round 1 2 3 4 5

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

#### #3 Precalculus - Hustle MA⊕ National Convention 2023

What is the range of  $f(x) = \sin \theta + \cos \theta$ ? Express your answer in interval notation.

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Round 1 2 3 4 5

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

Round 1 2 3 4 5

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Round 1 2 3 4 5

## #4 Precalculus – Hustle MA⊕ National Convention 2023

Simplify  $\left| e^{\frac{\pi}{3}i} - e^{\frac{\pi}{2}i} \right|^2$ .

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Round 1 2 3 4 5

#4 Precalculus – Hustle MA⊕ National Convention 2023

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

Round 1 2 3 4 5

#4 Precalculus – Hustle MA© National Convention 2023

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

Round 1 2 3 4 5

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

#5 Precalculus - Hustle	
MAΘ National Convention 2023	

In terms of **angles**, a triangle with sides 49, 63, and 84 units can be classified as...

#### #5 Precalculus – Hustle MA⊕ National Convention 2023

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Answer		
7112 W C1		

Round 1 2 3 4 5

#### #5 Precalculus – Hustle MA© National Convention 2023

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Round 1 2 3 4 5

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

Round 1 2 3 4 5

Round 1 2 3 4 5

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

### #6 Precalculus - Hustle MA⊕ National Convention 2023

How many 5-digit palindromes have at most one 3?

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Answer :	Answer :		
Round 1 2 3 4 5	Round 1 2 3 4 5		
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How many 5-digit palindromes have at most one 3?	How many 5-digit palindromes have at most one 3?		

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

Round 1 2 3 4 5 Round 1 2 3 4 5

## #7 Precalculus – Hustle MA® National Convention 2023

What is the smallest number x > 2023 that satisfies all of the conditions:  $x \equiv 6 \mod 5$ ,  $x \equiv 7 \mod 6$ , and  $x \equiv 5 \mod 4$ ?

#7 Pı	recalculus	s – Hustle	
ΜΑΘ	<b>National</b>	Convention	2023

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Answer:	
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Round 1 2 3 4 5

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Round 1 2 3 4 5

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Round 1 2 3 4 5

## #8 Precalculus – Hustle MA® National Convention 2023

Find  $x^4 + y^4$ , given that x + y = 7 and xy = 12.

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Round 1 2 3 4 5

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Round 1 2 3 4 5

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

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Round 1 2 3 4 5

#9 Precalculus - Hustle
MA® National Convention 2023

Find the sum of the coefficients in the full expansion of  $(x + 2y + 5)^6$ .

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Round 1 2 3 4 5

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Round 1 2 3 4 5

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

Round 1 2 3 4 5

Round 1 2 3 4 5

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

### #10 Precalculus - Hustle MA⊕ National Convention 2023

If the roots of  $x^4 - 3x^3 - 3x^2 + 4x + 3 = 0$  are a, b, c, and d, then find  $a^2 + b^2 + c^2 + d^2$ .

#### #10 Precalculus – Hustle MA⊕ National Convention 2023

If the roots of  $x^4 - 3x^3 - 3x^2 + 4x + 3 = 0$  are a, b, c, and d, then find  $a^2 + b^2 + c^2 + d^2$ .

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Round 1 2 3 4 5

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Round 1 2 3 4 5

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Round 1 2 3 4 5

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

#11 Precalculus - Hustle
<b>MA® National Convention 2023</b>

What is the tangent of 120 degrees?

# #11 Precalculus - Hustle MA® National Convention 2023

What is the tangent of 120 degrees?

Angwar	Answer:
Answer :	Allswei:
Round 1 2 3 4 5	Round 1 2 3 4 5
#11 Precalculus - Hustle	#11 Precalculus - Hustle
MA⊕ National Convention 2023	MA⊕ National Convention 2023
What is the tangent of 120 degrees?	What is the tangent of 120 degrees?

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

Round 1 2 3 4 5

#12 Precalculus - Hustle	
MA⊕ National Convention 2023	

MA® National Convention 2023

Find the dot product of  $\langle 4, 6 \rangle$  and  $\langle 2, 4 \rangle$ .

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#12 Precalculus - Hustle MA⊕ National Convention 2023

Find the dot product of (4, 6) and (2, 4).

MA© National Convention 2023

Find the dot product of (4, 6) and (2, 4).

Answer :	Answer :
Round 1 2 3 4 5	Round 1 2 3 4 5
#12 Precalculus – Hustle	#12 Precalculus – Hustle

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

Round 1 2 3 4 5 Round 1 2 3 4 5

### #13 Precalculus - Hustle MA⊕ National Convention 2023

Find the distance between the points with polar coordinates  $\left(-7, -\frac{\pi}{6}\right)$  and  $\left(24, \frac{\pi}{2}\right)$ .

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Round 1 2 3 4 5

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

Round 1 2 3 4 5

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

Round 1 2 3 4 5

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

## **#14 Precalculus - Hustle** MA© National Convention 2023

Evaluate  $\sum_{n=3}^{\infty} \frac{6}{n^2 + 5n + 4}$ .

#### **#14 Precalculus - Hustle MA** National Convention 2023

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

Round 1 2 3 4 5

**#14 Precalculus - Hustle** MA© National Convention 2023

Evaluate 
$$\sum_{n=3}^{\infty} \frac{6}{n^2 + 5n + 4}$$
.

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

Round 1 2 3 4 5

**#14 Precalculus - Hustle** MAO National Convention 2023 Evaluate  $\sum_{n=3}^{\infty} \frac{6}{n^2+5n+4}$ .

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

Round 1 2 3 4 5

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

#### #15 Precalculus – Hustle MA⊕ National Convention 2023

Find the area of the triangle created by connecting the points (4,1,2), (6,4,-1), and (3,-2,6).

#15 Precalculus - Hustle	
MAΘ National Convention 2	023

Find the area of the triangle created by connecting the points (4,1,2), (6,4,-1), and (3,-2,6).

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Answer:		
AllSWEL		

Round 1 2 3 4 5

#### #15 Precalculus - Hustle MA⊕ National Convention 2023

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

Round 1 2 3 4 5

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

Round 1 2 3 4 5

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

#### #16 Precalculus – Hustle MA© National Convention 2023

Find the length of the conjugate axis of the figure defined by the parametric questions;

$$x(t) = 3 + 7 \sec(t)$$

$$y(t) = 16 - 5\tan(t).$$

#### #16 Precalculus – Hustle MA⊕ National Convention 2023

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Round 1 2 3 4 5

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Round 1 2 3 4 5

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

Round 1 2 3 4 5

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

#### #17 Precalculus – Hustle MA⊕ National Convention 2023

Given that a and b are real numbers randomly selected between 0 and 20. What is the probability that a + b is greater than 20 but less than 30?

#17 Precalculus - Hustle	
MA© National Convention	2023

Given that a and b are real numbers randomly selected between 0 and 20. What is the probability that a + b is greater than 20 but less than 30?

Answer	:								A	Answ	er	:					
Round	1	2	3	4	5				F	Round	d	1	2	3	4	5	

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Answer :	Answer :

Round 1 2 3 4 5

## **#18 Precalculus - Hustle** MAΘ National Convention 2023

Simplify: 
$$\frac{1}{1 + \cos x} + \frac{1}{1 + \sin x} + \frac{1}{1 + \sec x} + \frac{1}{1 + \csc x}$$
.

## **#18 Precalculus - Hustle**

MA© National Convention 2023
Simplify: 
$$\frac{1}{1+\cos x} + \frac{1}{1+\sin x} + \frac{1}{1+\sec x} + \frac{1}{1+\csc x}$$
.

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

Round 1 2 3 4 5

**#18 Precalculus - Hustle** 

MA© National Convention 2023
Simplify: 
$$\frac{1}{1+\cos x} + \frac{1}{1+\sin x} + \frac{1}{1+\sec x} + \frac{1}{1+\csc x}$$
.

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

Round 1 2 3 4 5

**#18 Precalculus - Hustle** 

MA© National Convention 2023
Simplify:  $\frac{1}{1+\cos x} + \frac{1}{1+\sin x} + \frac{1}{1+\sec x} + \frac{1}{1+\csc x}$ .

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

Round 1 2 3 4 5

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

#### #19 Precalculus – Hustle MA⊕ National Convention 2023

Eridan has a keychain that has his name on it in beads. There are 6 beads in total, each of which has one letter of his name. How many different ways can Eridan rearrange these beads on his keychain?

#### #19 Precalculus – Hustle MA⊕ National Convention 2023

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Answer		
AIISWCI	•	

Round 1 2 3 4 5

## #19 Precalculus – Hustle MA® National Convention 2023

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

Round 1 2 3 4 5

## #19 Precalculus – Hustle MA⊕ National Convention 2023

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

Round 1 2 3 4 5

## #20 Precalculus - Hustle MA⊕ National Convention 2023

What is the sine of the angle between the vectors  $\binom{2}{2}$  and  $\binom{4}{2}$ ?

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

Round 1 2 3 4 5

#20 Precalculus - Hustle MA⊕ National Convention 2023

What is the sine of the angle between the vectors  $\binom{2}{2}$  and  $\binom{4}{2}$ ?

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

Round 1 2 3 4 5

#20 Precalculus - Hustle MA® National Convention 2023

What is the sine of the angle between the vectors  $\binom{2}{2}$  and  $\binom{4}{2}$ ?

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

Round 1 2 3 4 5

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

#### #21 Precalculus - Hustle MA⊕ National Convention 2023

If a cylinder, of radius 3 and height 17, has a hole of diameter 2 drilled through the center of it, what is the total surface area of the resulting figure?

#### #21 Precalculus – Hustle MA⊕ National Convention 2023

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_		
Answer	•	

Round 1 2 3 4 5

#### #21 Precalculus - Hustle MA⊕ National Convention 2023

If a cylinder, of radius 3 and height 17, has a hole of diameter 2 drilled through the center of it, what is the total surface area of the resulting figure?

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

Round 1 2 3 4 5

## #21 Precalculus – Hustle MA® National Convention 2023

If a cylinder, of radius 3 and height 17, has a hole of diameter 2 drilled through the center of it, what is the total surface area of the resulting figure?

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

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

Round 1 2 3 4 5

## **#22 Precalculus - Hustle** MA® National Convention 2023

Evaluate  $\left(\sin\frac{7\pi}{12}\right)\left(\cos\frac{5\pi}{4}\right)\left(\tan\frac{\pi}{3}\right)\left(\csc\frac{\pi}{6}\right)$ .

### **#22 Precalculus - Hustle** MA® National Convention 2023

Evaluate  $\left(\sin\frac{7\pi}{12}\right)\left(\cos\frac{5\pi}{4}\right)\left(\tan\frac{\pi}{3}\right)\left(\csc\frac{\pi}{6}\right)$ .

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

Round 1 2 3 4 5

**#22 Precalculus - Hustle** MA® National Convention 2023

Evaluate  $\left(\sin\frac{7\pi}{12}\right)\left(\cos\frac{5\pi}{4}\right)\left(\tan\frac{\pi}{3}\right)\left(\csc\frac{\pi}{6}\right)$ .

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

Round 1 2 3 4 5

**#22 Precalculus - Hustle** 

MA© National Convention 2023
Evaluate  $\left(sin\frac{7\pi}{12}\right)\left(cos\frac{5\pi}{4}\right)\left(tan\frac{\pi}{3}\right)\left(csc\frac{\pi}{6}\right)$ .

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

Round 1 2 3 4 5

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

### #23 Precalculus – Hustle MA⊕ National Convention 2023

Evaluate:  $\lim_{x\to 0} \frac{\sin x + 1}{\sin x}$ .

#### #23 Precalculus - Hustle MA⊕ National Convention 2023

Evaluate:  $\lim_{x\to 0} \frac{\sin x + 1}{\sin x}$ .

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

Round 1 2 3 4 5

#23 Precalculus – Hustle MA© National Convention 2023

Evaluate:  $\lim_{x\to 0} \frac{\sin x + 1}{\sin x}$ .

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

Round 1 2 3 4 5

#23 Precalculus - Hustle MA® National Convention 2023

Evaluate:  $\lim_{x\to 0} \frac{\sin x + 1}{\sin x}$ .

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

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

Round 1 2 3 4 5

#24 Precalculus - Hustle
MAΘ National Convention 2023

How many prime numbers are there that are less than 50?

#24 Precalculus - Hustle	
MAΘ National Convention 2	2023

How many prime numbers are there that are less than 50?

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Round 1 2 3 4 5

#### #24 Precalculus - Hustle MA⊕ National Convention 2023

How many prime numbers are there that are less than 50?

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

Round 1 2 3 4 5

#### #24 Precalculus - Hustle MA⊕ National Convention 2023

How many prime numbers are there that are less than 50?

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

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

Round 1 2 3 4 5

#### #25 Precalculus – Hustle MA⊕ National Convention 2023

If Will's test scores are 97, 98, 101, 77, 99, 110, and 111, what does he need to get on his next test to average exactly 100?

#### #25 Precalculus – Hustle MA⊕ National Convention 2023

If Will's test scores are 97, 98, 101, 77, 99, 110, and 111, what does he need to get on his next test to average exactly 100?

_			
Answer			

Round 1 2 3 4 5

#### #25 Precalculus – Hustle MA© National Convention 2023

If Will's test scores are 97, 98, 101, 77, 99, 110, and 111, what does he need to get on his next test to average exactly 100?

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

Round 1 2 3 4 5

#### #25 Precalculus – Hustle MA© National Convention 2023

If Will's test scores are 97, 98, 101, 77, 99, 110, and 111, what does he need to get on his next test to average exactly 100?

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

Round 1 2 3 4 5