#1 Precalculus – Hustle
MAΘ National Convention 2019

Find the Cartesian ordered pair that is equivalent to the polar ordered pair $\left(4, \frac{2\pi}{3}\right)$.

Answer : _____

Round 1 2 3 4 5

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Answer : _____

Round 1 2 3 4 5

#2 Precalculus – Hustle
MAΘ National Convention 2019

Find the sum of the squares of the solutions to the equation $x^3 + 3x^2 - 2x - 7 = 0$.

Answer : _____

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Round 1 2 3 4 5

#3 Precalculus – Hustle
MAΘ National Convention 2019

Given the set of all real numbers and the set of all 2×2 matrices with real entries, write the numbers of the properties below that apply to one set but not the other:

1) commutative property of addition
2) commutative property of multiplication
3) associative property of addition
4) associative property of multiplication

Answer : _____

Round 1 2 3 4 5

#3 Precalculus – Hustle
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Answer : _____

Round 1 2 3 4 5

#4 Precalculus – Hustle
MAΘ National Convention 2019

If $f(x)=\frac{2x-1}{x-2}$ and $g(x)=\frac{3x+1}{x+2}$, then the domain of the composite function $(f\circ g)(x)$ consists of all real numbers except which one(s)?

Answer : _____

Round 1 2 3 4 5

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Round 1 2 3 4 5

#5 Precalculus – Hustle
MAΘ National Convention 2019

Find the sum of the infinite series: $\sum_{i=1}^{\infty} \frac{3i+1}{2^i}$

Answer : _____

Round 1 2 3 4 5

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#6 Precalculus – Hustle
MAΘ National Convention 2019

Find the coefficient of the 7th term in the expansion of $(2x+3)^9$ when like terms have been combined and powers of *x* have been written in descending order.

Answer : _____

Round 1 2 3 4 5

#6 Precalculus – Hustle
MAΘ National Convention 2019

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Answer : _____

Round 1 2 3 4 5

#7 Precalculus – Hustle
MAΘ National Convention 2019

Write in rectangular form, where $i = \sqrt{-1}$:

$$\left(\frac{\sqrt{3}}{2} + \frac{1}{2} i \right)^{2019}$$

Answer : _____

Round 1 2 3 4 5

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Round 1 2 3 4 5

#8 Precalculus – Hustle
MAΘ National Convention 2019

If $f(x)=x^3+9x^2+27x+19$, find the value of $f^{-1}(-16)$.

Answer : _____

Round 1 2 3 4 5

#8 Precalculus – Hustle
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Answer : _____

Round 1 2 3 4 5

#9 Precalculus – Hustle
MAΘ National Convention 2019

Find the equation of the non-vertical asymptote of the function with equation $y = \frac{2x^4 + x - 3}{x^2 - 3}$.

Answer : _____

Round 1 2 3 4 5

#9 Precalculus – Hustle
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#10 Precalculus – Hustle
MAΘ National Convention 2019

Find the *x*-coordinate of the point where the graph of $y = \frac{2x^4 + x - 3}{x^2 - 3}$ intersects its non-vertical asymptote.

Answer : _____

Round 1 2 3 4 5

#10 Precalculus – Hustle
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#11 Precalculus – Hustle
MAΘ National Convention 2019

If $\vec{u}=\langle 3,-2,4\rangle$ and $\vec{v}=\langle -1,5,0\rangle$, find the cross product $\vec{u}\times\vec{v}$, written in the same format as both $\vec{u}$ and $\vec{v}$.

Answer : _____

Round 1 2 3 4 5

#11 Precalculus – Hustle
MAΘ National Convention 2019

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Answer : _____

Round 1 2 3 4 5

#12 Precalculus – Hustle
MAΘ National Convention 2019

Find the eccentricity of the conic section whose polar equation is $r = \frac{2}{3+2\sin\theta}$.

Answer : _____

Round 1 2 3 4 5

#12 Precalculus – Hustle
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#13 Precalculus – Hustle
MAΘ National Convention 2019

Find the standard deviation of the data set $\{-4,-2,0,1,5\}$, where this set represents the population of an experiment.

Answer : _____

Round 1 2 3 4 5

#13 Precalculus – Hustle
MAΘ National Convention 2019

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Answer : _____

Round 1 2 3 4 5

#14 Precalculus – Hustle
MAΘ National Convention 2019

Find the complex solution to the equation $x^4 = -8 + 8\sqrt{3}i$ that lies in the third quadrant of the Argand plane. Write the solution in $a + bi$ form, where a and b are real numbers.

Throughout this problem, $i = \sqrt{-1}$.

Answer : _____

Round 1 2 3 4 5

#14 Precalculus – Hustle
MAΘ National Convention 2019

Find the complex solution to the equation $x^4 = -8 + 8\sqrt{3}i$ that lies in the third quadrant of the Argand plane. Write the solution in $a + bi$ form, where a and b are real numbers.

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Throughout this problem, $i = \sqrt{-1}$.

Answer : _____

Round 1 2 3 4 5

#15 Precalculus – Hustle
MAΘ National Convention 2019

Evaluate: $\lim_{x\to\infty}\frac{1-4x}{2x}$

Answer : _____

Round 1 2 3 4 5

#15 Precalculus – Hustle
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Answer : _____

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Evaluate: $\lim_{x\to\infty}\frac{1-4x}{2x}$

Answer : _____

Round 1 2 3 4 5

#16 Precalculus – Hustle
MAΘ National Convention 2019

Find the point, written in the form (x, y), where the graph of $y = \frac{x^3 + 6x^2 + 3x - 10}{5x^2 + 5x}$ intersects its non-vertical asymptote.

.

Answer : _____

Round 1 2 3 4 5

#16 Precalculus – Hustle
MAΘ National Convention 2019

Find the point, written in the form (x, y), where the graph of $y = \frac{x^3 + 6x^2 + 3x - 10}{5x^2 + 5x}$ intersects its non-vertical asymptote.

.

Answer : _____

Round 1 2 3 4 5

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MAΘ National Convention 2019

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.

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Answer : _____

Round 1 2 3 4 5

#17 Precalculus – Hustle
MAΘ National Convention 2019

The polynomial $g(x)=x^5+2x^3+5x+11$ has only one real zero. Between which two consecutive integers does this zero lie?

Answer : _____

Round 1 2 3 4 5

#17 Precalculus – Hustle
MAΘ National Convention 2019

The polynomial $g(x)=x^5+2x^3+5x+11$ has only one real zero. Between which two consecutive integers does this zero lie?

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Round 1 2 3 4 5

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MAΘ National Convention 2019

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Answer : _____

Round 1 2 3 4 5

#18 Precalculus – Hustle
MAΘ National Convention 2019

Find the sum of the solutions to the equation:

$$\log_{(x+1)}(3x+7)=2$$

Answer : _____

Round 1 2 3 4 5

#18 Precalculus – Hustle
MAΘ National Convention 2019

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Answer : _____

Round 1 2 3 4 5

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$$\log_{(x+1)}(3x+7)=2$$

Answer : _____

Round 1 2 3 4 5

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Find the sum of the solutions to the equation:

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Answer : _____

Round 1 2 3 4 5

#19 Precalculus – Hustle
MAΘ National Convention 2019

Find the sum of the arithmetic series whose first term is -7, whose last term is 161, and whose common difference is 3.

Answer : _____

Round 1 2 3 4 5

#19 Precalculus – Hustle
MAΘ National Convention 2019

Find the sum of the arithmetic series whose first term is -7, whose last term is 161, and whose common difference is 3.

Answer : _____

Round 1 2 3 4 5

#19 Precalculus – Hustle
MAΘ National Convention 2019

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Answer : _____

Round 1 2 3 4 5

#19 Precalculus – Hustle
MAΘ National Convention 2019

Find the sum of the arithmetic series whose first term is -7, whose last term is 161, and whose common difference is 3.

Answer : _____

Round 1 2 3 4 5

#20 Precalculus – Hustle
MAΘ National Convention 2019

Find the domain of the function $f(x)=\sqrt{\frac{3x-6}{x-7}}$, written in interval notation.

Answer : _____

Round 1 2 3 4 5

#20 Precalculus – Hustle
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Round 1 2 3 4 5

#21 Precalculus – Hustle
MAΘ National Convention 2019

Find the probability, written as a reduced fraction, of drawing two cards of the same color or two cards of the same rank when drawing two cards from a standard deck of 52 playing cards.

Answer : _____

Round 1 2 3 4 5

#21 Precalculus – Hustle
MAΘ National Convention 2019

Find the probability, written as a reduced fraction, of drawing two cards of the same color or two cards of the same rank when drawing two cards from a standard deck of 52 playing cards.

Answer : _____

Round 1 2 3 4 5

#21 Precalculus – Hustle
MAΘ National Convention 2019

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Answer : _____

Round 1 2 3 4 5

#21 Precalculus – Hustle
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Answer : _____

Round 1 2 3 4 5

#22 Precalculus – Hustle
MAΘ National Convention 2019

Find the sum of all solutions to the equation $2\sin^2\theta - \sin\theta - 1 = 0$, where $0 \le \theta < 2\pi$.

Answer : _____

Round 1 2 3 4 5

#22 Precalculus – Hustle
MAΘ National Convention 2019

Find the sum of all solutions to the equation $2\sin^2\theta - \sin\theta - 1 = 0$, where $0 \le \theta < 2\pi$.

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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

#23 Precalculus – Hustle
MAΘ National Convention 2019

Evaluate: $\langle 2,-4,9\rangle \cdot \langle 3,15,-8\rangle$

Answer : _____

Round 1 2 3 4 5

#23 Precalculus – Hustle
MAΘ National Convention 2019

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Round 1 2 3 4 5

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Round 1 2 3 4 5

#23 Precalculus – Hustle
MAΘ National Convention 2019

Evaluate: $\langle 2,-4,9\rangle \cdot \langle 3,15,-8\rangle$

Answer : _____

Round 1 2 3 4 5

#24 Precalculus – Hustle
MAΘ National Convention 2019

The points $(16,-13)$ and $(-22,-32)$ both lie on the line with equation $x+Ay=B$, where A and B are real numbers. Find the value of B.

Answer : _____

Round 1 2 3 4 5

#24 Precalculus – Hustle
MAΘ National Convention 2019

The points $(16,-13)$ and $(-22,-32)$ both lie on the line with equation $x+Ay=B$, where A and B are real numbers. Find the value of B.

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#24 Precalculus – Hustle
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Answer : _____

Round 1 2 3 4 5

#25 Precalculus – Hustle
MAΘ National Convention 2019

An infinite geometric series consisting only of real terms has first term 6 and fifth term $\frac{3}{8}$. Find the sum of all possible sums of this series.

Answer : _____

Round 1 2 3 4 5

#25 Precalculus – Hustle
MAΘ National Convention 2019

An infinite geometric series consisting only of real terms has first term 6 and fifth term $\frac{3}{8}$. Find the sum of all possible sums of this series.

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Round 1 2 3 4 5