#1 Algebra II – Hustle
MAΘ National Convention 2025

If $f(x)=3x^2-1$ and $g(x)=x^3+1$, find $f(g(f(g(g(-1)))))$.

Answer : _____

Round 1 2 3 4 5

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#2 Algebra II – Hustle
MAΘ National Convention 2025

The graph of $y=\frac{x^4-2x^3-5x+5}{x^2+x+2}$ has a parabolic asymptote whose equation can be written in the form $y=ax^2+bx+c$. Find the value of $-b^{a+c}$.

Answer : _____

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Round 1 2 3 4 5

#3 Algebra II – Hustle
MAΘ National Convention 2025

Let the three solutions to $\begin{vmatrix} 2x^2+1 & 10 \\ x-1 & x+2 \end{vmatrix} = 7x^2+9x+20$ be a, b, and c, where $a<b<c$. What is the value of c?

Answer : _____

Round 1 2 3 4 5

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MAΘ National Convention 2025

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Answer : _____

Round 1 2 3 4 5

#4 Algebra II – Hustle
MAΘ National Convention 2025

The domain of $y = \log_{x-8}\left(x^2 - 4x - 21\right)$ can be written in the form $(a, b) \cup (c, d)$. Find the value of $a + b - c$.

Answer : _____

Round 1 2 3 4 5

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MAΘ National Convention 2025

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Answer : _____

Round 1 2 3 4 5

#5 Algebra II – Hustle
MAΘ National Convention 2025

If $\frac{7x-25}{x^2-7x+12}=\frac{A}{x-3}+\frac{B}{x-4}$, find the value of B^A.

Answer : _____

Round 1 2 3 4 5

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Answer : _____

Round 1 2 3 4 5

#6 Algebra II – Hustle
MAΘ National Convention 2025

Find the value of x such that $x+2$ is the arithmetic mean of $4x+1$ and $x-9$.

Answer : _____

Round 1 2 3 4 5

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MAΘ National Convention 2025

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Round 1 2 3 4 5

#7 Algebra II – Hustle
MAΘ National Convention 2025

Find the remainder when $4x^4 - 8x^3 + 7x^2 - 5$ is divided by $x + \frac{1}{2}$.

Answer : ___________

Round 1 2 3 4 5

#7 Algebra II – Hustle
MAΘ National Convention 2025

Find the remainder when $4x^4 - 8x^3 + 7x^2 - 5$ is divided by $x + \frac{1}{2}$.

Answer : ___________

Round 1 2 3 4 5

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MAΘ National Convention 2025

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Answer : ___________

Round 1 2 3 4 5

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MAΘ National Convention 2025

Find the remainder when $4x^4 - 8x^3 + 7x^2 - 5$ is divided by $x + \frac{1}{2}$.

Answer : ___________

Round 1 2 3 4 5

#8 Algebra II – Hustle
MAΘ National Convention 2025

A circle has (2, 2) and (–4, –6) as the endpoints of a diameter. If the area of the circle is $A\pi$, find A.

Answer : _____

Round 1 2 3 4 5

#8 Algebra II – Hustle
MAΘ National Convention 2025

A circle has (2, 2) and (–4, –6) as the endpoints of a diameter. If the area of the circle is $A\pi$, find A.

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Answer : _____

Round 1 2 3 4 5

#9 Algebra II – Hustle
MAΘ National Convention 2025

Find the magnitude of $(10+24i)(8-6i)$, where $i=\sqrt{-1}$.

Answer : _____

Round 1 2 3 4 5

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Answer : _____

Round 1 2 3 4 5

#10 Algebra II – Hustle
MAΘ National Convention 2025

For what nonzero value of a does the equation $3^x a + 3^{1-x} = 3$ have a unique solution? Write your answer as a fraction in lowest terms.

Answer : _____

Round 1 2 3 4 5

#10 Algebra II – Hustle
MAΘ National Convention 2025

For what nonzero value of a does the equation $3^x a + 3^{1-x} = 3$ have a unique solution? Write your answer as a fraction in lowest terms.

Answer : _____

Round 1 2 3 4 5

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Answer : _____

Round 1 2 3 4 5

#11 Algebra II – Hustle
MAΘ National Convention 2025

Find the coefficient of the sixth term in the expansion of $\left(x^2-1\right)^{12}$ when the terms are written in descending powers of *x*.

Answer : _____

Round 1 2 3 4 5

#11 Algebra II – Hustle
MAΘ National Convention 2025

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Find the coefficient of the sixth term in the expansion of $\left(x^2-1\right)^{12}$ when the terms are written in descending powers of *x*.

Answer : _____

Round 1 2 3 4 5

#12 Algebra II – Hustle
MAΘ National Convention 2025

How many grams of pure carbonic acid must be added to 180 grams of a solution that is 35% carbonic acid to produce a solution that is 50% carbonic acid?

Answer : ___________

Round 1 2 3 4 5

#12 Algebra II – Hustle
MAΘ National Convention 2025

How many grams of pure carbonic acid must be added to 180 grams of a solution that is 35% carbonic acid to produce a solution that is 50% carbonic acid?

Answer : ___________

Round 1 2 3 4 5

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MAΘ National Convention 2025

How many grams of pure carbonic acid must be added to 180 grams of a solution that is 35% carbonic acid to produce a solution that is 50% carbonic acid?

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How many grams of pure carbonic acid must be added to 180 grams of a solution that is 35% carbonic acid to produce a solution that is 50% carbonic acid?

Answer : ___________

Round 1 2 3 4 5

#13 Algebra II – Hustle
MAΘ National Convention 2025

Find $f(7)$ if $f(x)=\frac{x^4-10x^2+9}{x^2-4x+3}$.

Answer : _____

Round 1 2 3 4 5

#13 Algebra II – Hustle
MAΘ National Convention 2025

Find $f(7)$ if $f(x)=\frac{x^4-10x^2+9}{x^2-4x+3}$.

Answer : _____

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Answer : _____

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MAΘ National Convention 2025

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Answer : _____

Round 1 2 3 4 5

#14 Algebra II – Hustle
MAΘ National Convention 2025

Find the distance between the foci of $\frac{(x-7)^2}{9}+\frac{(y+3)^2}{25}=1.$

Answer : _____

Round 1 2 3 4 5

#14 Algebra II – Hustle
MAΘ National Convention 2025

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Find the distance between the foci of $\frac{(x-7)^2}{9}+\frac{(y+3)^2}{25}=1.$

Answer : _____

Round 1 2 3 4 5

#15 Algebra II – Hustle
MAΘ National Convention 2025

If $2^{-3x} = \frac{1}{1000}$, find the value of $2^x + 4\log_{100} 2^x$.

Answer : _____

Round 1 2 3 4 5

#15 Algebra II – Hustle
MAΘ National Convention 2025

If $2^{-3x} = \frac{1}{1000}$, find the value of $2^x + 4\log_{100} 2^x$.

Answer : _____

Round 1 2 3 4 5

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Round 1 2 3 4 5

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If $2^{-3x} = \frac{1}{1000}$, find the value of $2^x + 4\log_{100} 2^x$.

Answer : _____

Round 1 2 3 4 5

#16 Algebra II – Hustle
MAΘ National Convention 2025

An airport shuttle service operates between an airport and downtown. It costs $10 to ride the shuttle, and 300 people ride the shuttle each day. The shuttle company estimates that business will decrease by 15 passengers per day for each $1 increase in fare. Find the fare that will maximize revenue.

Answer : _____

Round 1 2 3 4 5

#16 Algebra II – Hustle
MAΘ National Convention 2025

An airport shuttle service operates between an airport and downtown. It costs $10 to ride the shuttle, and 300 people ride the shuttle each day. The shuttle company estimates that business will decrease by 15 passengers per day for each $1 increase in fare. Find the fare that will maximize revenue.

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Answer : _____

Round 1 2 3 4 5

#17 Algebra II – Hustle
MAΘ National Convention 2025

The nonterminating decimal 0.06006006… can be written as a fraction $\frac{a}{b}$. Find the value of $a+b$ when the fraction is written in lowest terms.

Answer : _____

Round 1 2 3 4 5

#17 Algebra II – Hustle
MAΘ National Convention 2025

The nonterminating decimal 0.06006006… can be written as a fraction $\frac{a}{b}$. Find the value of $a+b$ when the fraction is written in lowest terms.

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Answer : _____

Round 1 2 3 4 5

#18 Algebra II – Hustle
MAΘ National Convention 2025

Find the sum of the coefficients in the quotient of $\frac{6x^5 - x^4 - 32x^3 - 20x^2 + 5x + 8}{2x - 3}$.

Answer : _____

Round 1 2 3 4 5

#18 Algebra II – Hustle
MAΘ National Convention 2025

Find the sum of the coefficients in the quotient of $\frac{6x^5 - x^4 - 32x^3 - 20x^2 + 5x + 8}{2x - 3}$.

Answer : _____

Round 1 2 3 4 5

#18 Algebra II – Hustle
MAΘ National Convention 2025

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Round 1 2 3 4 5

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Find the sum of the coefficients in the quotient of $\frac{6x^5 - x^4 - 32x^3 - 20x^2 + 5x + 8}{2x - 3}$.

Answer : _____

Round 1 2 3 4 5

#19 Algebra II – Hustle
MAΘ National Convention 2025

How many integer solutions (a, b, c, d) to $a+b+c+d=25$ exist if $a \geq 1, b \geq 2, c \geq 3,$ and $d \geq 4$?

Answer : _____

Round 1 2 3 4 5

#19 Algebra II – Hustle
MAΘ National Convention 2025

How many integer solutions (a, b, c, d) to $a+b+c+d=25$ exist if $a \geq 1, b \geq 2, c \geq 3,$ and $d \geq 4$?

Answer : _____

Round 1 2 3 4 5

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Round 1 2 3 4 5

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MAΘ National Convention 2025

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Answer : _____

Round 1 2 3 4 5

#20 Algebra II – Hustle
MAΘ National Convention 2025

Find the *x*-intercept of $y = 3\log_8(x-4)+2$, written as an improper fraction.

Answer : _____

Round 1 2 3 4 5

#20 Algebra II – Hustle
MAΘ National Convention 2025

Find the *x*-intercept of $y = 3\log_8(x-4)+2$, written as an improper fraction.

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Round 1 2 3 4 5

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Answer : _____

Round 1 2 3 4 5

#20 Algebra II – Hustle
MAΘ National Convention 2025

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Answer : _____

Round 1 2 3 4 5

#21 Algebra II – Hustle
MAΘ National Convention 2025

Find the value of $a+b+c$ if

$$\sum_{n=5}^{10}\left(3n^2-2n+1\right)=\sum_{n=1}^{6}\left(an^2+bn+c\right).$$

Answer : _____

Round 1 2 3 4 5

#21 Algebra II – Hustle
MAΘ National Convention 2025

Find the value of $a+b+c$ if

$$\sum_{n=5}^{10}\left(3n^2-2n+1\right)=\sum_{n=1}^{6}\left(an^2+bn+c\right).$$

Answer : _____

Round 1 2 3 4 5

#21 Algebra II – Hustle
MAΘ National Convention 2025

Find the value of $a+b+c$ if

$$\sum_{n=5}^{10}\left(3n^2-2n+1\right)=\sum_{n=1}^{6}\left(an^2+bn+c\right).$$

Answer : _____

Round 1 2 3 4 5

#21 Algebra II – Hustle
MAΘ National Convention 2025

Find the value of $a+b+c$ if

$$\sum_{n=5}^{10}\left(3n^2-2n+1\right)=\sum_{n=1}^{6}\left(an^2+bn+c\right).$$

Answer : _____

Round 1 2 3 4 5

#22 Algebra II – Hustle
MAΘ National Convention 2025

The triangle with vertices (2, 3), (8, –1), and (–2, x) has an area of 24 units^2. The sum of all values of x for which this is true can be written in simplest terms as $\frac{a}{b}$. Find the value of $a+b$.

Answer : _____

Round 1 2 3 4 5

#22 Algebra II – Hustle
MAΘ National Convention 2025

The triangle with vertices (2, 3), (8, –1), and (–2, x) has an area of 24 units^2. The sum of all values of x for which this is true can be written in simplest terms as $\frac{a}{b}$. Find the value of $a+b$.

Answer : _____

Round 1 2 3 4 5

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MAΘ National Convention 2025

The triangle with vertices (2, 3), (8, –1), and (–2, x) has an area of 24 units^2. The sum of all values of x for which this is true can be written in simplest terms as $\frac{a}{b}$. Find the value of $a+b$.

Answer : _____

Round 1 2 3 4 5

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The triangle with vertices (2, 3), (8, –1), and (–2, x) has an area of 24 units^2. The sum of all values of x for which this is true can be written in simplest terms as $\frac{a}{b}$. Find the value of $a+b$.

Answer : _____

Round 1 2 3 4 5

#23 Algebra II – Hustle
MAΘ National Convention 2025

If $f(x)=x^4-x^2+ax+b$ and $f(1)=2$ and $f(2)=17$, find the product of the roots of function *f*.

Answer : _____

Round 1 2 3 4 5

#23 Algebra II – Hustle
MAΘ National Convention 2025

If $f(x)=x^4-x^2+ax+b$ and $f(1)=2$ and $f(2)=17$, find the product of the roots of function *f*.

Answer : _____

Round 1 2 3 4 5

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MAΘ National Convention 2025

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Answer : _____

Round 1 2 3 4 5

#23 Algebra II – Hustle
MAΘ National Convention 2025

If $f(x)=x^4-x^2+ax+b$ and $f(1)=2$ and $f(2)=17$, find the product of the roots of function *f*.

Answer : _____

Round 1 2 3 4 5

#24 Algebra II – Hustle
MAΘ National Convention 2025

How many real-number solutions are there for $x^4 + |x| = 10$?

Answer : _____

Round 1 2 3 4 5

#24 Algebra II – Hustle
MAΘ National Convention 2025

How many real-number solutions are there for $x^4 + |x| = 10$?

Answer : _____

Round 1 2 3 4 5

#24 Algebra II – Hustle
MAΘ National Convention 2025

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Answer : _____

Round 1 2 3 4 5

#24 Algebra II – Hustle
MAΘ National Convention 2025

How many real-number solutions are there for $x^4 + |x| = 10$?

Answer : _____

Round 1 2 3 4 5

#25 Algebra II – Hustle
MAΘ National Convention 2025

The graphs of $x^2 - 3y^2 = 1$ and $2x + 3y = 7$ have an intersection in Quadrant IV. Find the sum of the coordinates of the point of intersection.

Answer : _____

Round 1 2 3 4 5

#25 Algebra II – Hustle
MAΘ National Convention 2025

The graphs of $x^2 - 3y^2 = 1$ and $2x + 3y = 7$ have an intersection in Quadrant IV. Find the sum of the coordinates of the point of intersection.

Answer : _____

Round 1 2 3 4 5

#25 Algebra II – Hustle
MAΘ National Convention 2025

The graphs of $x^2 - 3y^2 = 1$ and $2x + 3y = 7$ have an intersection in Quadrant IV. Find the sum of the coordinates of the point of intersection.

Answer : _____

Round 1 2 3 4 5

#25 Algebra II – Hustle
MAΘ National Convention 2025

The graphs of $x^2 - 3y^2 = 1$ and $2x + 3y = 7$ have an intersection in Quadrant IV. Find the sum of the coordinates of the point of intersection.

Answer : _____

Round 1 2 3 4 5