#### #1 Algebra – Hustle MA© National Convention 2017

The asymptotes of  $y = \frac{x^4 + 3x^3 - 15x^2 - 19x + 30}{x^3 - x^2 - 30x + 72}$  are in the form x = a, x = b, y = cx + d. Find the value of a + b + c + d.

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

Round 1 2 3 4 5

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

Round 1 2 3 4 5

#### #2 Algebra – Hustle MA© National Convention 2017

Evaluate 
$$\sum_{n=2}^{16807} \log_7 \left( \frac{n-1}{n} \right)$$
.

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

Round 1 2 3 4 5

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

Round 1 2 3 4 5

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

# #3 Algebra – Hustle MA© National Convention 2017

Give	en tł	nat	AB	B = C, f	ind	the	e va	lue of $a+b+c$ if
	a	2	5		1	5	3	
A =	0	1	4	, <i>B</i> =	2	b	7	, and
	2	3	6		1	0	5_	
	10	7	7	42]				
С=	6	1	L	27 .				
	_14	1	3	c 🛓				

# **#3 Algebra – Hustle MAO National Convention 2017** Given that AB = C, find the value of a+b+c if

	a	2	5			1	5	3	
A =	0	1	4	, B	=	2	b	7	, and
	2	3	6_			1	0	5	
	10	7	7	42]					
<i>C</i> =	6	1	Ĺ	27	•				
	_14	1	3	с ]					

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

Round 1 2 3 4 5

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

Round 1 2 3 4 5

# #3 Algebra – Hustle MA© National Convention 2017

Give	en tł	nat .	AБ	R = C	', f	ind	the	e va	lue of $a+b+c$ if
	a	2	5			1	5	3	
A =	0	1	4	, B	=	2	b	7	, and
	2	3	6			1	0	5	
	10	7		42					
<i>C</i> =	6	1		27					
	_14	13	3	С					

#### #3 Algebra – Hustle MA© National Convention 2017

Give	en tł	nat	ΑБ	S = C, f	ìnd	the	va	lue of $a+b+c$ if
	a	2	5		1	5	3	
A =	0	1	4	, <i>B</i> =	2	b	7	, and
	2	3	6		1	0	5	
[	10	7	7	42]				
<i>C</i> =	6	1	L	27 .				
	14	1	3	c 🔤				

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

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

Round 1 2 3 4 5

# #4 Algebra – Hustle MA® National Convention 2017

Evaluate the nested radical

$$\sqrt{15(1+i)^8} + \sqrt{15(1+i)^8} + \dots$$
, where  $i = \sqrt{-1}$ .

#4 Algebra – Hustle MA© National Convention 2017

Evaluate the nested radical

 $\sqrt{15(1+i)^8 + \sqrt{15(1+i)^8 + ...}}$ , where  $i = \sqrt{-1}$ .

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 : \_\_\_\_\_

# #5 Algebra – Hustle MA© National Convention 2017\_\_\_\_\_

If f(ax) = af(x) for all real *a* and f(3) = 2, find f(13), written as an improper fraction.

# #5 Algebra – Hustle MA© National Convention 2017

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

Round 1 2 3 4 5

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

Round 1 2 3 4 5

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Round 1 2 3 4 5

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

#### #6 Algebra – Hustle MA© National Convention 2017

If  $z_1 = 5 - 12i$ ,  $z_2 = 3 + 4i$ , and  $i = \sqrt{-1}$ , find the value of  $\left| \frac{z_1}{z_2} \right|$ , written as a decimal.

### #6 Algebra – Hustle MA© National Convention 2017

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

Round 1 2 3 4 5

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

Round 1 2 3 4 5

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

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

Round 1 2 3 4 5

Evaluate 
$$\sum_{n=1}^{8} (2n^2 + n + 1).$$

#7 Algebra – Hustle MA© National Convention 2017



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

Round 1 2 3 4 5

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

Round 1 2 3 4 5

#7 Algebra – Hustle MA© National Convention 2017

Evaluate  $\sum_{n=1}^{8} (2n^2 + n + 1).$ 

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Evaluate 
$$\sum_{n=1}^{8} (2n^2 + n + 1).$$

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

Round 1 2 3 4 5

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

#### #8 Algebra – Hustle MA© National Convention 2017

Find the product *ab* if  $\begin{cases} a^{3} + b^{3} = 468 \\ (a+b)^{3} = 1728 \end{cases}$ .

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

Round 1 2 3 4 5

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

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

Round 1 2 3 4 5

#### #9 Algebra – Hustle MA© National Convention 2017

A third-degree polynomial P(x) has only three distinct roots: 3, -4, and -3. If P(0) = -72, find P(5).

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

### #10 Algebra – Hustle MA© National Convention 2017

Find the number of consecutive terminating zeros in 2017!.

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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 : \_\_\_\_\_

### #11 Algebra – Hustle MA© National Convention 2017

Find the third term in the expansion of

 $\left(\frac{x}{2}+3\right)^5$  when the terms are written in

descending order of exponent of x.

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

#### #12 Algebra – Hustle MA© National Convention 2017

Find the sum of the reciprocals of the positive integral divisors of 496.

# #12 Algebra – Hustle MA© National Convention 2017

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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 : \_\_\_\_\_

#### #13 Algebra – Hustle MA© National Convention 2017

A continuous function f(x) has domain [-48,56]. If the domain of |f(3x-6)|+12 is written as [a,b], find the value of a+b, written as an improper fraction.

# #13 Algebra – Hustle MA© National Convention 2017

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

Round 1 2 3 4 5

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

Round 1 2 3 4 5

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Answer :	
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Round 1 2 3 4 5

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

#### #14 Algebra – Hustle MA© National Convention 2017

Evaluate  $\sum_{i=1}^{99} \lfloor 0.67i \rfloor$ .

#14 Algebra – Hustle MA© National Convention 2017



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

Round 1 2 3 4 5

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

Round 1 2 3 4 5

#14 Algebra – Hustle MA© National Convention 2017

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

Round 1 2 3 4 5

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

#### #15 Algebra – Hustle MA© National Convention 2017

When 0.5 (base 10) is expressed in base 5 notation, what is the sum of the first six digits after the decimal point?

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Answer :	
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Round 1 2 3 4 5

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

Round 1 2 3 4 5

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Round 1 2 3 4 5

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

#### #16 Algebra – Hustle MA© National Convention 2017

An integer between 100,000 and 199,999 becomes three times as large as it was when the 1 is moved from the leftmost position to the rightmost position. What is the sum of the digits of this six-digit number?

### #16 Algebra – Hustle MA© National Convention 2017

An integer between 100,000 and 199,999 becomes three times as large as it was when the 1 is moved from the leftmost position to the rightmost position. What is the sum of the digits of this six-digit number?

Answer :	
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Round 1 2 3 4 5

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

Round 1 2 3 4 5

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Round 1 2 3 4 5

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

# #17 Algebra – Hustle MA© National Convention 2017

Find the positive value(s) of *x* for which

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

# #17 Algebra – Hustle MA© National Convention 2017

Find the positive value(s) of *x* for which

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

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

Round 1 2 3 4 5

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

Round 1 2 3 4 5

# #17 Algebra – Hustle MA© National Convention 2017

Find the positive value(s) of *x* for which

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# #17 Algebra – Hustle MA© National Convention 2017

Find	l the j	positive value(s) of <i>x</i> for which
2	- <i>X</i>	5
1	-3	4  = 0.
-1	3	X

Answer	:	

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

Round 1 2 3 4 5

### #18 Algebra – Hustle MA© National Convention 2017

Find the equation, in slope-intercept form, for the line tangent to a circle with center (-3,2) at the point (3,7).

# #18 Algebra – Hustle MA© National Convention 2017

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Answer :		
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Round 1 2 3 4 5

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

Round 1 2 3 4 5

# #18 Algebra – Hustle MA© National Convention 2017

Find the equation, in slope-intercept form, for the line tangent to a circle with center (-3,2)

at the point (3,7).

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Find the equation, in slope-intercept form, for the line tangent to a circle with center (-3,2)

at the point (3,7).

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

Round 1 2 3 4 5

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

#### #19 Algebra – Hustle MA© National Convention 2017

Apollonius went fishing at a perfectly elliptical pond. From a point on the shore of the pond, he rowed to one focus, then to the other focus, and then back to his starting point on the shore. If the pond has a maximum width of length 144 feet and a maximum length 240 feet, how far, in feet, did he row?

### #19 Algebra – Hustle MA© National Convention 2017

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

Round 1 2 3 4 5

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

Round 1 2 3 4 5

# #19 Algebra – Hustle MA© National Convention 2017

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

#### #20 Algebra – Hustle MA© National Convention 2017

A multiple-choice test has six questions with five answer choices for each question and only one correct answer per question. By merely guessing, what is the probability that you get exactly four answers correct?

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Answor	
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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 : \_\_\_\_\_

### #21 Algebra – Hustle MA© National Convention 2017

Find the sum of the imaginary roots of  $8x^5 + 16x^3 + 64x^2 + 128 = 0$ .

# #21 Algebra – Hustle MA© National Convention 2017

Find the sum of the imaginary roots of  $8x^5 + 16x^3 + 64x^2 + 128 = 0$ .

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

Round 1 2 3 4 5

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

Round 1 2 3 4 5

### #21 Algebra – Hustle MA© National Convention 2017

Find the sum of the imaginary roots of  $8x^5 + 16x^3 + 64x^2 + 128 = 0$ .

# #21 Algebra – Hustle MA© National Convention 2017

Find the sum of the imaginary roots of  $8x^5 + 16x^3 + 64x^2 + 128 = 0$ .

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

Round 1 2 3 4 5

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

#### #22 Algebra – Hustle MA© National Convention 2017

If  $f(x) = x^{10} + 2x^9 - 2x^8 - 2x^7 + x^6 + 3x^2 + 6x + 1$ , find  $f(\sqrt{2} - 1)$ . #22 Algebra – Hustle MA© National Convention 2017

If  $f(x) = x^{10} + 2x^9 - 2x^8 - 2x^7 + x^6 + 3x^2 + 6x + 1$ , find  $f(\sqrt{2} - 1)$ .

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

Round 1 2 3 4 5

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

Round 1 2 3 4 5

#22 Algebra – Hustle MA© National Convention 2017

If  $f(x) = x^{10} + 2x^9 - 2x^8 - 2x^7 + x^6 + 3x^2 + 6x + 1$ , find  $f(\sqrt{2} - 1)$ .

#22 Algebra – Hustle	
MA <sub>O</sub> National Convention 2017	

If  $f(x) = x^{10} + 2x^9 - 2x^8 - 2x^7 + x^6 + 3x^2 + 6x + 1$ , find  $f(\sqrt{2} - 1)$ .

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

Round 1 2 3 4 5

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

# #23 Algebra – Hustle MA© National Convention 2017

If  $f(x+1) = x^2 - 7x + 8$ , find f(x).

#23 Algebra – Hustle MA $\otimes$  National Convention 2017 If  $f(x+1) = x^2 - 7x + 8$ , find f(x).

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

Round 1 2 3 4 5

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

Round 1 2 3 4 5

#23 Algebra – Hustle MA© National Convention 2017

If  $f(x+1) = x^2 - 7x + 8$ , find f(x).

**#23 Algebra – Hustle MAO National Convention 2017** If  $f(x+1)=x^2-7x+8$ , find f(x).

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

Round 1 2 3 4 5

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

#### #24 Algebra – Hustle MA© National Convention 2017

Simplify  $\sqrt{\left(e^{2x}-e^{-2x}\right)^2+4}$ , where *e* represents Euler's number.

#### #24 Algebra – Hustle MA© National Convention 2017

Simplify  $\sqrt{\left(e^{2x}-e^{-2x}\right)^2+4}$ , where *e* represents

Euler's number.

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

Round 1 2 3 4 5

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

Round 1 2 3 4 5

#24 Algebra – Hustle MA© National Convention 2017

Simplify  $\sqrt{\left(e^{2x}-e^{-2x}\right)^2+4}$ , where *e* represents Euler's number.

#24 Algebra – Hustle MA© National Convention 2017

Simplify  $\sqrt{\left(e^{2x}-e^{-2x}\right)^2+4}$ , where *e* represents Euler's number.

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

Round 1 2 3 4 5

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

# #25 Algebra – Hustle MA© National Convention 2017

Solve for all real *x*:  $4x^2 + 8x - 2\sqrt{4x^2 + 8x - 3} = 6.$ 

## #25 Algebra – Hustle MA© National Convention 2017

Solve for all real *x*:  $4x^2 + 8x - 2\sqrt{4x^2 + 8x - 3} = 6.$ 

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

Round 1 2 3 4 5

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

Round 1 2 3 4 5

#25 Algebra – Hustle MA© National Convention 2017

Solve for all real *x*:  $4x^2 + 8x - 2\sqrt{4x^2 + 8x - 3} = 6.$  #25 Algebra – Hustle MA© National Convention 2017

Solve for all real *x*:  $4x^2 + 8x - 2\sqrt{4x^2 + 8x - 3} = 6.$ 

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

Round 1 2 3 4 5

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