

**#1 Algebra II – Hustle**  
**MA⊗ National Convention 2007**

Find the sum of the roots of  $y = 2x^2 - 4x + 1$ .

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

**Round 1 2 3 4 5**

**#1 Algebra II – Hustle**  
**MA⊗ National Convention 2007**

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

**Round 1 2 3 4 5**

**#2 Algebra II – Hustle**  
**MA⊗ National Convention 2007**

Evaluate  $\sum_{x=1}^{10} (x(x+1))$ .

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

**Round 1 2 3 4 5**

**#2 Algebra II – Hustle**  
**MA⊗ National Convention 2007**

Evaluate  $\sum_{x=1}^{10} (x(x+1))$ .

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

**Round 1 2 3 4 5**

**#2 Algebra II – Hustle**  
**MA⊗ National Convention 2007**

Evaluate  $\sum_{x=1}^{10} (x(x+1))$ .

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

**Round 1 2 3 4 5**

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**MA⊗ National Convention 2007**

Evaluate  $\sum_{x=1}^{10} (x(x+1))$ .

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

**Round 1 2 3 4 5**

**#3 Algebra II – Hustle**  
**MA⊗ National Convention 2007**

What is the value of  $x$  that satisfies the following equations:

$$v + 2w + 4x + y = 4$$

$$3w + x - 2y + z = 2$$

$$v - w + 3y - z = 2$$

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

Round 1 2 3 4 5

**#3 Algebra II – Hustle**  
**MA⊗ National Convention 2007**

What is the value of  $x$  that satisfies the following equations:

$$v + 2w + 4x + y = 4$$

$$3w + x - 2y + z = 2$$

$$v - w + 3y - z = 2$$

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

Round 1 2 3 4 5

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What is the value of  $x$  that satisfies the following equations:

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

Round 1 2 3 4 5

**#3 Algebra II – Hustle**  
**MA⊗ National Convention 2007**

What is the value of  $x$  that satisfies the following equations:

$$v + 2w + 4x + y = 4$$

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$$v - w + 3y - z = 2$$

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

Round 1 2 3 4 5

**#4 Algebra II – Hustle**  
**MA<sup>©</sup> National Convention 2007**

Susan can paint a barn in 2 days. Pam can paint a barn in 4 days. If they work together, how many barns can they paint in 40 days?

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

**Round 1 2 3 4 5**

**#4 Algebra II – Hustle**  
**MA<sup>©</sup> National Convention 2007**

Susan can paint a barn in 2 days. Pam can paint a barn in 4 days. If they work together, how many barns can they paint in 40 days?

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

**Round 1 2 3 4 5**

**#4 Algebra II – Hustle**  
**MA<sup>©</sup> National Convention 2007**

Susan can paint a barn in 2 days. Pam can paint a barn in 4 days. If they work together, how many barns can they paint in 40 days?

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

**Round 1 2 3 4 5**

**#4 Algebra II – Hustle**  
**MA<sup>©</sup> National Convention 2007**

Susan can paint a barn in 2 days. Pam can paint a barn in 4 days. If they work together, how many barns can they paint in 40 days?

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

**Round 1 2 3 4 5**

**#5 Algebra II – Hustle**  
**MA⊗ National Convention 2007**

What is the minimum value  $|x^2 - 1| + 4$  can attain?

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

Round 1 2 3 4 5

**#5 Algebra II – Hustle**  
**MA⊗ National Convention 2007**

What is the minimum value  $|x^2 - 1| + 4$  can attain?

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

Round 1 2 3 4 5

**#5 Algebra II – Hustle**  
**MA⊗ National Convention 2007**

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Round 1 2 3 4 5

**#5 Algebra II – Hustle**  
**MA⊗ National Convention 2007**

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

Round 1 2 3 4 5

**#6 Algebra II – Hustle**  
**MA⊗ National Convention 2007**

Find the sum of all values of  $x$  that satisfy  
 $3|x-1| - |x-1| + 4|x-1| = 18$

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

Round 1 2 3 4 5

**#6 Algebra II – Hustle**  
**MA⊗ National Convention 2007**

Find the sum of all values of  $x$  that satisfy  
 $3|x-1| - |x-1| + 4|x-1| = 18$

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

Round 1 2 3 4 5

**#6 Algebra II – Hustle**  
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Find the sum of all values of  $x$  that satisfy  
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Answer : \_\_\_\_\_

Round 1 2 3 4 5

**#6 Algebra II – Hustle**  
**MA⊗ National Convention 2007**

Find the sum of all values of  $x$  that satisfy  
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Answer : \_\_\_\_\_

Round 1 2 3 4 5

**#7 Algebra II – Hustle**  
**MA⊗ National Convention 2007**

How many elements of the set  
 $\{41^2 - 17^2, 19^4 - 16, 18^2 + 22^2, 12^3 + 11^3\}$   
are prime?

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

Round 1 2 3 4 5

**#7 Algebra II – Hustle**  
**MA⊗ National Convention 2007**

How many elements of the set  
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Answer : \_\_\_\_\_

Round 1 2 3 4 5

**#8 Algebra II – Hustle**  
**MA⊗ National Convention 2007**

Let  $f(x) = 4x + 2$  and  $g(x) = 2[f^{-1}(x)] + 4$ .  
Find  $g(g^{-1}(1))$

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

Round 1 2 3 4 5

**#8 Algebra II – Hustle**  
**MA⊗ National Convention 2007**

Let  $f(x) = 4x + 2$  and  $g(x) = 2[f^{-1}(x)] + 4$ .  
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Answer : \_\_\_\_\_

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Find  $g(g^{-1}(1))$

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

Round 1 2 3 4 5



**#9 Algebra II – Hustle**  
**MAΘ National Convention 2007**

Evaluate  $\sqrt{\pi + \sqrt{\pi + \sqrt{\pi + \dots}}}$

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

Round 1 2 3 4 5

**#9 Algebra II – Hustle**  
**MAΘ National Convention 2007**

Evaluate  $\sqrt{\pi + \sqrt{\pi + \sqrt{\pi + \dots}}}$

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

Round 1 2 3 4 5

**#9 Algebra II – Hustle**  
**MAΘ National Convention 2007**

Evaluate  $\sqrt{\pi + \sqrt{\pi + \sqrt{\pi + \dots}}}$

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

Round 1 2 3 4 5

**#9 Algebra II – Hustle**  
**MAΘ National Convention 2007**

Evaluate  $\sqrt{\pi + \sqrt{\pi + \sqrt{\pi + \dots}}}$

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

Round 1 2 3 4 5

**#10 Algebra II – Hustle**  
**MA⊗ National Convention 2007**

Find probability that the sum of 5 positive randomly chosen integers is even.

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

**Round 1 2 3 4 5**

**#10 Algebra II – Hustle**  
**MA⊗ National Convention 2007**

Find probability that the sum of 5 positive randomly chosen integers is even.

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

**Round 1 2 3 4 5**

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

**Round 1 2 3 4 5**

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**MA⊗ National Convention 2007**

Find probability that the sum of 5 positive randomly chosen integers is even.

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

**Round 1 2 3 4 5**

**#11 Algebra II – Hustle**  
**MA⊗ National Convention 2007**

What is the smallest integer that is greater than  $\sqrt{(69)(71)}$  ?

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

Round 1 2 3 4 5

**#11 Algebra II – Hustle**  
**MA⊗ National Convention 2007**

What is the smallest integer that is greater than  $\sqrt{(69)(71)}$  ?

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

Round 1 2 3 4 5

**#11 Algebra II – Hustle**  
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What is the smallest integer that is greater than  $\sqrt{(69)(71)}$  ?

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

Round 1 2 3 4 5

**#11 Algebra II – Hustle**  
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What is the smallest integer that is greater than  $\sqrt{(69)(71)}$  ?

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

Round 1 2 3 4 5

**#12 Algebra II – Hustle  
MA⊗ National Convention 2007**

$$\sum_{x=0}^{10} \sqrt{x^2 y} = 220. \text{ Find } y.$$

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

**Round 1 2 3 4 5**

**#12 Algebra II – Hustle  
MA⊗ National Convention 2007**

$$\sum_{x=0}^{10} \sqrt{x^2 y} = 220. \text{ Find } y.$$

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

**Round 1 2 3 4 5**

**#12 Algebra II – Hustle  
MA⊗ National Convention 2007**

$$\sum_{x=0}^{10} \sqrt{x^2 y} = 220. \text{ Find } y.$$

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

**Round 1 2 3 4 5**

**#12 Algebra II – Hustle  
MA⊗ National Convention 2007**

$$\sum_{x=0}^{10} \sqrt{x^2 y} = 220. \text{ Find } y.$$

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

**Round 1 2 3 4 5**

**#13 Algebra II – Hustle**  
**MAⓈ National Convention 2007**

Find the distance between (3,1) and (4,7).

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

Round 1 2 3 4 5

**#13 Algebra II – Hustle**  
**MAⓈ National Convention 2007**

Find the distance between (3,1) and (4,7).

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

Round 1 2 3 4 5

**#13 Algebra II – Hustle**  
**MAⓈ National Convention 2007**

Find the distance between (3,1) and (4,7).

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

Round 1 2 3 4 5

**#13 Algebra II – Hustle**  
**MAⓈ National Convention 2007**

Find the distance between (3,1) and (4,7).

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

Round 1 2 3 4 5

**#14 Algebra II – Hustle**  
**MA⊗ National Convention 2007**

How many distinct rational roots does  
 $y = x^2 - 2\sqrt{2}x + 2$  have?

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

Round 1 2 3 4 5

**#14 Algebra II – Hustle**  
**MA⊗ National Convention 2007**

How many distinct rational roots does  
 $y = x^2 - 2\sqrt{2}x + 2$  have?

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

Round 1 2 3 4 5

**#14 Algebra II – Hustle**  
**MA⊗ National Convention 2007**

How many distinct rational roots does  
 $y = x^2 - 2\sqrt{2}x + 2$  have?

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

Round 1 2 3 4 5

**#14 Algebra II – Hustle**  
**MA⊗ National Convention 2007**

How many distinct rational roots does  
 $y = x^2 - 2\sqrt{2}x + 2$  have?

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

Round 1 2 3 4 5

**#15 Algebra II – Hustle**  
**MAⓈ National Convention 2007**

Find the slope of any line that is perpendicular to  
 $y = 2x$ .

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

Round 1 2 3 4 5

**#15 Algebra II – Hustle**  
**MAⓈ National Convention 2007**

Find the slope of any line that is perpendicular to  
 $y = 2x$ .

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

Round 1 2 3 4 5

**#15 Algebra II – Hustle**  
**MAⓈ National Convention 2007**

Find the slope of any line that is perpendicular to  
 $y = 2x$ .

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

Round 1 2 3 4 5

**#15 Algebra II – Hustle**  
**MAⓈ National Convention 2007**

Find the slope of any line that is perpendicular to  
 $y = 2x$ .

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

Round 1 2 3 4 5

**#16 Algebra II – Hustle**  
**MA $\odot$  National Convention 2007**

A crazy store owner puts a pair of shoes on sale for 40% off, but realizes this is too much and marks them up 20%. After people stop buying them, he realizes he needs to lower the price another 50%. If the shoes then cost \$9, to the nearest dollar, how much did they originally cost?

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

**Round 1 2 3 4 5**

**#16 Algebra II – Hustle**  
**MA $\odot$  National Convention 2007**

A crazy store owner puts a pair of shoes on sale for 40% off, but realizes this is too much and marks them up 20%. After people stop buying them, he realizes he needs to lower the price another 50%. If the shoes then cost \$9, to the nearest dollar, how much did they originally cost?

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

**Round 1 2 3 4 5**

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**Round 1 2 3 4 5**

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**MA $\odot$  National Convention 2007**

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

**Round 1 2 3 4 5**



**#17 Algebra II – Hustle**  
**MA⊗ National Convention 2007**

The sum of two numbers is  $\sqrt{48}$  and their product is 4. Find the sum of the squares of these numbers.

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

Round 1 2 3 4 5

**#17 Algebra II – Hustle**  
**MA⊗ National Convention 2007**

The sum of two numbers is  $\sqrt{48}$  and their product is 4. Find the sum of the squares of these numbers.

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

Round 1 2 3 4 5

**#17 Algebra II – Hustle**  
**MA⊗ National Convention 2007**

The sum of two numbers is  $\sqrt{48}$  and their product is 4. Find the sum of the squares of these numbers.

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

Round 1 2 3 4 5

**#17 Algebra II – Hustle**  
**MA⊗ National Convention 2007**

The sum of two numbers is  $\sqrt{48}$  and their product is 4. Find the sum of the squares of these numbers.

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

Round 1 2 3 4 5

**#18 Algebra II – Hustle  
MA⊗ National Convention 2007**

Simplify  $(4 + 2i)^2 - (4 - 2i)^2$  completely, where  
 $i = \sqrt{-1}$ .

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

Round 1 2 3 4 5

**#18 Algebra II – Hustle  
MA⊗ National Convention 2007**

Simplify  $(4 + 2i)^2 - (4 - 2i)^2$  completely, where  
 $i = \sqrt{-1}$ .

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

Round 1 2 3 4 5

**#18 Algebra II – Hustle  
MA⊗ National Convention 2007**

Simplify  $(4 + 2i)^2 - (4 - 2i)^2$  completely, where  
 $i = \sqrt{-1}$ .

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

Round 1 2 3 4 5

**#18 Algebra II – Hustle  
MA⊗ National Convention 2007**

Simplify  $(4 + 2i)^2 - (4 - 2i)^2$  completely, where  
 $i = \sqrt{-1}$ .

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

Round 1 2 3 4 5

**#19 Algebra II – Hustle**  
**MA@ National Convention 2007**

Simplify  $\frac{x^4 y^2 zx}{xyz^4}$  without using negative exponents,  $x, y, z > 0$ .

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

Round 1 2 3 4 5

**#19 Algebra II – Hustle**  
**MA@ National Convention 2007**

Simplify  $\frac{x^4 y^2 zx}{xyz^4}$  without using negative exponents,  $x, y, z > 0$ .

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

Round 1 2 3 4 5

**#19 Algebra II – Hustle**  
**MA@ National Convention 2007**

Simplify  $\frac{x^4 y^2 zx}{xyz^4}$  without using negative exponents,  $x, y, z > 0$ .

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

Round 1 2 3 4 5

**#19 Algebra II – Hustle**  
**MA@ National Convention 2007**

Simplify  $\frac{x^4 y^2 zx}{xyz^4}$  without using negative exponents,  $x, y, z > 0$ .

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

Round 1 2 3 4 5

**#20 Algebra II – Hustle**  
**MA⊕ National Convention 2007**

Find the point or points of intersection of  
 $y = 2x + 1$  and  $y = -x^2$ .

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

Round 1 2 3 4 5

**#20 Algebra II – Hustle**  
**MA⊕ National Convention 2007**

Find the point or points of intersection of  
 $y = 2x + 1$  and  $y = -x^2$ .

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

Round 1 2 3 4 5

**#20 Algebra II – Hustle**  
**MA⊕ National Convention 2007**

Find the point or points of intersection of  
 $y = 2x + 1$  and  $y = -x^2$ .

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

Round 1 2 3 4 5

**#20 Algebra II – Hustle**  
**MA⊕ National Convention 2007**

Find the point or points of intersection of  
 $y = 2x + 1$  and  $y = -x^2$ .

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

Round 1 2 3 4 5

**#21 Algebra II – Hustle**  
**MA⊗ National Convention 2007**

A triangle has sides of lengths  $x + 2y - 1$ ,  $y + 4$   
and  $y - x + 4$ . Find its perimeter.

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

Round 1 2 3 4 5

**#21 Algebra II – Hustle**  
**MA⊗ National Convention 2007**

A triangle has sides of lengths  $x + 2y - 1$ ,  $y + 4$   
and  $y - x + 4$ . Find its perimeter.

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

Round 1 2 3 4 5

**#21 Algebra II – Hustle**  
**MA⊗ National Convention 2007**

A triangle has sides of lengths  $x + 2y - 1$ ,  $y + 4$   
and  $y - x + 4$ . Find its perimeter.

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

Round 1 2 3 4 5

**#21 Algebra II – Hustle**  
**MA⊗ National Convention 2007**

A triangle has sides of lengths  $x + 2y - 1$ ,  $y + 4$   
and  $y - x + 4$ . Find its perimeter.

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

Round 1 2 3 4 5

**#22 Algebra II – Hustle**  
**MA $\text{\textcircled{T}}$  National Convention 2007**

A rectangle has area 17 and perimeter 18. Find the length of the longer side.

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

**Round 1 2 3 4 5**

**#22 Algebra II – Hustle**  
**MA $\text{\textcircled{T}}$  National Convention 2007**

A rectangle has area 17 and perimeter 18. Find the length of the longer side.

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

**Round 1 2 3 4 5**

**#22 Algebra II – Hustle**  
**MA $\text{\textcircled{T}}$  National Convention 2007**

A rectangle has area 17 and perimeter 18. Find the length of the longer side.

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

**Round 1 2 3 4 5**

**#22 Algebra II – Hustle**  
**MA $\text{\textcircled{T}}$  National Convention 2007**

A rectangle has area 17 and perimeter 18. Find the length of the longer side.

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

**Round 1 2 3 4 5**

**#23 Algebra II – Hustle**  
**MA@ National Convention 2007**

Using  $\log 2 \approx 0.3$ , tell which is larger,  
 $4^{10}$  or  $5^9$ ?

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

Round 1 2 3 4 5

**#23 Algebra II – Hustle**  
**MA@ National Convention 2007**

Using  $\log 2 \approx 0.3$ , tell which is larger,  
 $4^{10}$  or  $5^9$ ?

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

Round 1 2 3 4 5

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

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**#23 Algebra II – Hustle**  
**MA@ National Convention 2007**

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 $4^{10}$  or  $5^9$ ?

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

Round 1 2 3 4 5

**#24 Algebra II – Hustle**  
**MA⊗ National Convention 2007**

If 7 mutant egg-laying gophers can lay 14 eggs in 14 minutes, then how many eggs can 91 of these gophers lay in 28 minutes?

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

**Round 1 2 3 4 5**

**#24 Algebra II – Hustle**  
**MA⊗ National Convention 2007**

If 7 mutant egg-laying gophers can lay 14 eggs in 14 minutes, then how many eggs can 91 of these gophers lay in 28 minutes?

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

**Round 1 2 3 4 5**

**#24 Algebra II – Hustle**  
**MA⊗ National Convention 2007**

If 7 mutant egg-laying gophers can lay 14 eggs in 14 minutes, then how many eggs can 91 of these gophers lay in 28 minutes?

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

**Round 1 2 3 4 5**

**#24 Algebra II – Hustle**  
**MA⊗ National Convention 2007**

If 7 mutant egg-laying gophers can lay 14 eggs in 14 minutes, then how many eggs can 91 of these gophers lay in 28 minutes?

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

**Round 1 2 3 4 5**



**#25 Algebra II – Hustle**  
**MA⊗ National Convention 2007**

What is the slope of the line  $x + 2y - 1 = 0$ ?

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

Round 1 2 3 4 5

**#25 Algebra II – Hustle**  
**MA⊗ National Convention 2007**

What is the slope of the line  $x + 2y - 1 = 0$ ?

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

Round 1 2 3 4 5

**#25 Algebra II – Hustle**  
**MA⊗ National Convention 2007**

What is the slope of the line  $x + 2y - 1 = 0$ ?

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

Round 1 2 3 4 5

**#25 Algebra II – Hustle**  
**MA⊗ National Convention 2007**

What is the slope of the line  $x + 2y - 1 = 0$ ?

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

Round 1 2 3 4 5