

**#1 Algebra II – Hustle**  
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**Simplify:**

$$(3i)^2(-2i) + (4i^3)(-2i^2) + \left(\frac{3}{i}\right)\left(\frac{-2}{i^2}\right)$$

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

**Round 1 2 3 4 5**

**#1 Algebra II – Hustle**  
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**Simplify:**

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**Round 1 2 3 4 5**

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

**Round 1 2 3 4 5**

**#2 Algebra II – Hustle  
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Find the value of:

$${}_8C_3 - {}_6C_2 - {}_5C_2$$

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

Round 1 2 3 4 5

**#2 Algebra II – Hustle  
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Find the value of:

$${}_8C_3 - {}_6C_2 - {}_5C_2$$

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

Round 1 2 3 4 5

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Find the value of:

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

Round 1 2 3 4 5

**#2 Algebra II – Hustle  
National MA© 2008**

Find the value of:

$${}_8C_3 - {}_6C_2 - {}_5C_2$$

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

Round 1 2 3 4 5

**#3 Algebra II – Hustle  
National MA© 2008**

**Find the sum of the roots of**

$$3^{5x} \cdot 9^{x^2} = 27$$

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

**Round 1 2 3 4 5**

**#3 Algebra II – Hustle  
National MA© 2008**

**Find the sum of the roots of**

$$3^{5x} \cdot 9^{x^2} = 27$$

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

**Round 1 2 3 4 5**

**#3 Algebra II – Hustle  
National MA© 2008**

**Find the sum of the roots of**

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

**Round 1 2 3 4 5**

**#3 Algebra II – Hustle  
National MA© 2008**

**Find the sum of the roots of**

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

**Round 1 2 3 4 5**

**#4 Algebra II – Hustle  
National MAΘ 2008**

Simplify:

$$\frac{2^{n+3} + 2(2^n)}{2(2^{n+4})}$$

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

Round 1 2 3 4 5

**#4 Algebra II – Hustle  
National MAΘ 2008**

Simplify:

$$\frac{2^{n+3} + 2(2^n)}{2(2^{n+4})}$$

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

Round 1 2 3 4 5

**#4 Algebra II – Hustle**

**National MAΘ 2008**

Simplify:

$$\frac{2^{n+3} + 2(2^n)}{2(2^{n+4})}$$

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

Round 1 2 3 4 5

**#4 Algebra II – Hustle  
National MAΘ 2008**

Simplify:

$$\frac{2^{n+3} + 2(2^n)}{2(2^{n+4})}$$

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

Round 1 2 3 4 5

**#5 Algebra II – Hustle**

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**Under proper restrictions,  
 $\log 2a = x$  and  $\log 2B = y$ .**

**If  $\frac{x+y}{x-y} = 1$ , solve for  $B$ .**

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

**Round 1 2 3 4 5**

**#5 Algebra II – Hustle  
National MA@ 2008**

**Under proper restrictions,  
 $\log 2a = x$  and  $\log 2B = y$ .**

**If  $\frac{x+y}{x-y} = 1$ , solve for  $B$ .**

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**Round 1 2 3 4 5**

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**National MA@ 2008**

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**Round 1 2 3 4 5**

**#6 Algebra II – Hustle**

**National MAΘ 2008**

Determine the focus of  
 $y = -3x^2 + 7x - 5$

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

Round 1 2 3 4 5

**#6 Algebra II – Hustle  
National MAΘ 2008**

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Round 1 2 3 4 5

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

Round 1 2 3 4 5

**#6 Algebra II – Hustle  
National MAΘ 2008**

Determine the focus of  
 $y = -3x^2 + 7x - 5$

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

Round 1 2 3 4 5

**#7 Algebra II – Hustle**

**National MA@ 2008**

Solve over the Reals:

$$x^3 + x^2 - 2x \leq 0$$

Give answer in interval notation.

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

Round 1 2 3 4 5

**#7 Algebra II – Hustle**

**National MA@ 2008**

Solve over the Reals:

$$x^3 + x^2 - 2x \leq 0$$

Give answer in interval notation.

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

Round 1 2 3 4 5

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**National MA@ 2008**

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Give answer in interval notation.

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

Round 1 2 3 4 5

**#7 Algebra II – Hustle**

**National MA@ 2008**

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$$x^3 + x^2 - 2x \leq 0$$

Give answer in interval notation.

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

Round 1 2 3 4 5

**#8 Algebra II – Hustle  
National MA© 2008**

**Let  $\log 2 = a, \log 3 = b$ . Give an expression  
for the simplified form of  $\log 50$ .**

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

**Round 1 2 3 4 5**

**#8 Algebra II – Hustle  
National MA© 2008**

**Let  $\log 2 = a, \log 3 = b$ . Give an expression  
for the simplified form of  $\log 50$ .**

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

**Round 1 2 3 4 5**

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National MA© 2008**

**Let  $\log 2 = a, \log 3 = b$ . Give an expression  
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**Answer : \_\_\_\_\_**

**Round 1 2 3 4 5**

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National MA© 2008**

**Let  $\log 2 = a, \log 3 = b$ . Give an expression  
for the simplified form of  $\log 50$ .**

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

**Round 1 2 3 4 5**



**#9 Algebra II – Hustle**  
**National MA© 2008**

The sum of the first 6 terms of a geometric progression is nine times the sum of the first three terms. Find the common ratio.

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

Round 1 2 3 4 5

**#9 Algebra II – Hustle**  
**National MA© 2008**

The sum of the first 6 terms of a geometric progression is nine times the sum of the first three terms. Find the common ratio.

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

Round 1 2 3 4 5

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The sum of the first 6 terms of a geometric progression is nine times the sum of the first three terms. Find the common ratio.

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

Round 1 2 3 4 5

**#10 Algebra II – Hustle  
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Find the value of  $x + y$  when

$$\frac{x+3}{2} + \frac{y-1}{3} = 5 \text{ and}$$

$$\frac{x+y}{3} - \frac{2y-3}{5} = 2.$$

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

**Round 1 2 3 4 5**

**#10 Algebra II – Hustle  
National MA© 2008**

Find the value of  $x + y$  when

$$\frac{x+3}{2} + \frac{y-1}{3} = 5 \text{ and}$$

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

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

**Round 1 2 3 4 5**

**#11 Algebra II – Hustle**  
**National MA© 2008**

If  $x - 2(1 - 3x) = 6 + 3(4 - x)$  and  
 $\frac{3y + 1}{3y - 1} = \frac{2y + 1}{2y - 3}$ , then find the value  
of  $4x - 3y$ .

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

Round 1 2 3 4 5

**#11 Algebra II – Hustle**  
**National MA© 2008**

If  $x - 2(1 - 3x) = 6 + 3(4 - x)$  and  
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Answer : \_\_\_\_\_

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

Round 1 2 3 4 5

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If  $x - 2(1 - 3x) = 6 + 3(4 - x)$  and  
 $\frac{3y + 1}{3y - 1} = \frac{2y + 1}{2y - 3}$ , then find the value  
of  $4x - 3y$ .

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

Round 1 2 3 4 5

**#12 Algebra II – Hustle  
National MAⓈ 2008**

Give the simplified form of  $\frac{1-\sqrt{3}}{5+2\sqrt{3}}$

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

**Round 1 2 3 4 5**

**#12 Algebra II – Hustle  
National MAⓈ 2008**

Give the simplified form of  $\frac{1-\sqrt{3}}{5+2\sqrt{3}}$

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

**Round 1 2 3 4 5**

**#12 Algebra II – Hustle  
National MAⓈ 2008**

Give the simplified form of  $\frac{1-\sqrt{3}}{5+2\sqrt{3}}$

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

**Round 1 2 3 4 5**

**#12 Algebra II – Hustle  
National MAⓈ 2008**

Give the simplified form of  $\frac{1-\sqrt{3}}{5+2\sqrt{3}}$

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

**Round 1 2 3 4 5**

**#13 Algebra II – Hustle  
National MA© 2008**

Find the value of  $x$ :  
 $\log[\log_2(\log_x 25)] = 0$ .

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

**Round 1 2 3 4 5**

**#13 Algebra II – Hustle  
National MA© 2008**

Find the value of  $x$ :  
 $\log[\log_2(\log_x 25)] = 0$ .

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

**Round 1 2 3 4 5**

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

**Round 1 2 3 4 5**

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National MA© 2008**

Find the value of  $x$ :  
 $\log[\log_2(\log_x 25)] = 0$ .

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

**Round 1 2 3 4 5**

**#14 Algebra II – Hustle**  
**National MA© 2008**

Find the sum  $\frac{21}{x^2 - 49} + \frac{3}{x + 7}$

Express the answer in simplest form.

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

**Round 1 2 3 4 5**

**#14 Algebra II – Hustle**  
**National MA© 2008**

Find the sum  $\frac{21}{x^2 - 49} + \frac{3}{x + 7}$

Express the answer in simplest form.

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

**Round 1 2 3 4 5**

**#14 Algebra II – Hustle**  
**National MA© 2008**

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**National MA© 2008**

Find the sum  $\frac{21}{x^2 - 49} + \frac{3}{x + 7}$

Express the answer in simplest form.

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

**Round 1 2 3 4 5**

**#15 Algebra II – Hustle**  
**National MA© 2008**

Solve the inequality  $\frac{1}{2}(12 - 5m) - \frac{7}{2}m < 18$ .  
Give your solution in interval notation.

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

Round 1 2 3 4 5

**#15 Algebra II – Hustle**  
**National MA© 2008**

Solve the inequality  $\frac{1}{2}(12 - 5m) - \frac{7}{2}m < 18$ .  
Give your solution in interval notation.

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

Round 1 2 3 4 5

**#15 Algebra II – Hustle**  
**National MA© 2008**

Solve the inequality  $\frac{1}{2}(12 - 5m) - \frac{7}{2}m < 18$ .  
Give your solution in interval notation.

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

Round 1 2 3 4 5

**#15 Algebra II – Hustle**  
**National MA© 2008**

Solve the inequality  $\frac{1}{2}(12 - 5m) - \frac{7}{2}m < 18$ .  
Give your solution in interval notation.

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

Round 1 2 3 4 5

**#16 Algebra II – Hustle  
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Simplify  $e^{\ln 18 + \ln 9}$

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

Round 1 2 3 4 5

**#16 Algebra II – Hustle  
National MA© 2008**

Simplify  $e^{\ln 18 + \ln 9}$

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

Round 1 2 3 4 5

**#16 Algebra II – Hustle  
National MA© 2008**

Simplify  $e^{\ln 18 + \ln 9}$

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

Round 1 2 3 4 5

**#16 Algebra II – Hustle  
National MA© 2008**

Simplify  $e^{\ln 18 + \ln 9}$

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

Round 1 2 3 4 5



**#17 Algebra II – Hustle  
National MA© 2008**

Simplify:  $\sqrt[3]{\sqrt[4]{5} \cdot \sqrt[4]{25}}$

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

Round 1 2 3 4 5

**#17 Algebra II – Hustle  
National MA© 2008**

Simplify:  $\sqrt[3]{\sqrt[4]{5} \cdot \sqrt[4]{25}}$

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

Round 1 2 3 4 5

**#17 Algebra II – Hustle  
National MA© 2008**

Simplify:  $\sqrt[3]{\sqrt[4]{5} \cdot \sqrt[4]{25}}$

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

Round 1 2 3 4 5

**#17 Algebra II – Hustle  
National MA© 2008**

Simplify:  $\sqrt[3]{\sqrt[4]{5} \cdot \sqrt[4]{25}}$

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

Round 1 2 3 4 5

**#18 Algebra II – Hustle  
National MA© 2008**

Solve over the reals:  $y^2 - 4x^2 = 16$   
 $2x^2 + y^2 = 16$

Express your answer(s) as an ordered pair(s).

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

Round 1 2 3 4 5

**#18 Algebra II – Hustle  
National MA© 2008**

Solve over the reals:  $y^2 - 4x^2 = 16$   
 $2x^2 + y^2 = 16$

Express your answer(s) as an ordered pair(s).

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

Round 1 2 3 4 5

**#18 Algebra II – Hustle  
National MA© 2008**

Solve over the reals:  $y^2 - 4x^2 = 16$   
 $2x^2 + y^2 = 16$

Express your answer(s) as an ordered pair(s).

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

Round 1 2 3 4 5

**#18 Algebra II – Hustle  
National MA© 2008**

Solve over the reals:  $y^2 - 4x^2 = 16$   
 $2x^2 + y^2 = 16$

Express your answer(s) as an ordered pair(s).

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

Round 1 2 3 4 5

**#19 Algebra II – Hustle  
National MAΘ 2008**

Evaluate  $\begin{vmatrix} 3 & 0 & 0 \\ 0 & 0 & -2 \\ 0 & -4 & 1 \end{vmatrix}$

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

Round 1 2 3 4 5

**#19 Algebra II – Hustle  
National MAΘ 2008**

Evaluate  $\begin{vmatrix} 3 & 0 & 0 \\ 0 & 0 & -2 \\ 0 & -4 & 1 \end{vmatrix}$

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

Round 1 2 3 4 5

**#19 Algebra II – Hustle**

**National MAΘ 2008**

Evaluate  $\begin{vmatrix} 3 & 0 & 0 \\ 0 & 0 & -2 \\ 0 & -4 & 1 \end{vmatrix}$

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

Round 1 2 3 4 5

**#19 Algebra II – Hustle  
National MAΘ 2008**

Evaluate  $\begin{vmatrix} 3 & 0 & 0 \\ 0 & 0 & -2 \\ 0 & -4 & 1 \end{vmatrix}$

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

Round 1 2 3 4 5

**#20 Algebra II – Hustle**

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If  $z$  varies directly as  $x^2$  and inversely as  $y$ ,  
and  $z = \frac{3}{4}$  when  $x = 9$  and  $y = 2$ ,  
find the value of  $z$  when  $x = 12$   
and  $y = \frac{1}{2}$ .

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

**Round 1 2 3 4 5**

**#20 Algebra II – Hustle  
National MA@ 2008**

If  $z$  varies directly as  $x^2$  and inversely as  $y$ ,  
and  $z = \frac{3}{4}$  when  $x = 9$  and  $y = 2$ ,  
find the value of  $z$  when  $x = 12$   
and  $y = \frac{1}{2}$ .

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

**Round 1 2 3 4 5  
#20 Algebra II – Hustle**

**National MA@ 2008**

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find the value of  $z$  when  $x = 12$   
and  $y = \frac{1}{2}$ .

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

**Round 1 2 3 4 5**

**#20 Algebra II – Hustle  
National MA@ 2008**

If  $z$  varies directly as  $x^2$  and inversely as  $y$ ,  
and  $z = \frac{3}{4}$  when  $x = 9$  and  $y = 2$ ,  
find the value of  $z$  when  $x = 12$   
and  $y = \frac{1}{2}$ .

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

**Round 1 2 3 4 5  
#21 Algebra II – Hustle**

**National MAΘ 2008**

Find the quadratic **equation** having  $2 \pm \sqrt{3}$  as roots.

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

**Round 1 2 3 4 5**

**#21 Algebra II – Hustle  
National MAΘ 2008**

Find the quadratic **equation** having  $2 \pm \sqrt{3}$  as roots.

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

**Round 1 2 3 4 5**

**#21 Algebra II – Hustle**

**National MAΘ 2008**

Find the quadratic **equation** having  $2 \pm \sqrt{3}$  as roots.

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

**Round 1 2 3 4 5**

**#21 Algebra II – Hustle  
National MAΘ 2008**

Find the quadratic **equation** having  $2 \pm \sqrt{3}$  as roots.

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

**Round 1 2 3 4 5**

**#22 Algebra II – Hustle**

**National MA@ 2008**

Find **all** roots of  $x^3 - 3x + 52 = 0$  given that one root is  $2 - 3i$ .

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

Round 1 2 3 4 5

**#22 Algebra II – Hustle  
National MA@ 2008**

Find **all** roots of  $x^3 - 3x + 52 = 0$  given that one root is  $2 - 3i$ .

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

Round 1 2 3 4 5

**#22 Algebra II – Hustle**

**National MA@ 2008**

Find **all** roots of  $x^3 - 3x + 52 = 0$  given that one root is  $2 - 3i$ .

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

Round 1 2 3 4 5

**#22 Algebra II – Hustle  
National MA@ 2008**

Find **all** roots of  $x^3 - 3x + 52 = 0$  given that one root is  $2 - 3i$ .

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

Round 1 2 3 4 5

**#22 Algebra II – Hustle**

**#23 Algebra II – Hustle  
National MA© 2008**

Find  $a_2$  for the geometric sequence with  
 $a_3 = 243$  and  $a_7 = 3$ .

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

Round 1 2 3 4 5

**#23 Algebra II – Hustle  
National MA© 2008**

Find  $a_2$  for the geometric sequence with  
 $a_3 = 243$  and  $a_7 = 3$ .

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

Round 1 2 3 4 5

**#23 Algebra II – Hustle  
National MA© 2008**

Find  $a_2$  for the geometric sequence with  
 $a_3 = 243$  and  $a_7 = 3$ .

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

Round 1 2 3 4 5

**#23 Algebra II – Hustle  
National MA© 2008**

Find  $a_2$  for the geometric sequence with  
 $a_3 = 243$  and  $a_7 = 3$ .

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

Round 1 2 3 4 5

**#24 Algebra II – Hustle**  
**National MA© 2008**

Determine an equation of the parabola having focus  $\left(\frac{7}{8}, 3\right)$  and directrix  $x = \frac{9}{8}$ .

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

**Round 1 2 3 4 5**

**#24 Algebra II – Hustle**  
**National MA© 2008**

Determine an equation of the parabola having focus  $\left(\frac{7}{8}, 3\right)$  and directrix  $x = \frac{9}{8}$ .

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

**Round 1 2 3 4 5**

**#24 Algebra II – Hustle**  
**National MA© 2008**

Determine an equation of the parabola having focus  $\left(\frac{7}{8}, 3\right)$  and directrix  $x = \frac{9}{8}$ .

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

**Round 1 2 3 4 5**

**#24 Algebra II – Hustle**  
**National MA© 2008**

Determine an equation of the parabola having focus  $\left(\frac{7}{8}, 3\right)$  and directrix  $x = \frac{9}{8}$ .

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

**Round 1 2 3 4 5**



**#25 Algebra II – Hustle  
National MA© 2008**

Solve  $\sqrt{x-4} + x = 6$

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

**Round 1 2 3 4 5**

**#25 Algebra II – Hustle  
National MA© 2008**

Solve  $\sqrt{x-4} + x = 6$

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

**Round 1 2 3 4 5**

**#25 Algebra II – Hustle  
National MA© 2008**

Solve  $\sqrt{x-4} + x = 6$

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

**Round 1 2 3 4 5**

**#25 Algebra II – Hustle  
National MA© 2008**

Solve  $\sqrt{x-4} + x = 6$

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

**Round 1 2 3 4 5**