Topic: Quadratic Equations Right-hand side	
	advanced complete the square?
$y = 3x^2 - 12x - 24$	
1.) Factor out a, no	$0 = 3(3x^2/3 - 12x/3 - 24/3)$
matter what it is, by	$0 = 3(x^2 - 4x - 8)$
dividing all terms by it. Set y to 0.	
2.) Complete the	
square for what's	a = 1, b = -4, c = -8
inside the paren-	$0 = 3((x + b/2)^2 + c - (b/2)^2)$
theses using the identities inside the	$0 = 3((x + (-4)/2)^2 + (-8) - ((-4)/2)^2)$
parentheses; simplify	$0 = 3((x - 2)^2 - 12)$
 Distribute the original "a" to the 	$0 = 3(x - 2)^2 - 12(3)$
term on the right	$0 = 3(x - 2)^2 - 36$ $0 = 3(x - 2)^2 - 36$
of the exponent	0 - 0(x 2) 50
4.) Define the vertex. The "x" that would	x - 2 = 0
make the parentheses	
equal 0 is $x_{\rm v}$, and	$y = 3((2) - 2)^2 - 36$
y, is what's on	y = -36 (2, -36)
right of exponent	
5.) Solve for x,	
find x _i	$0 = 3(x - 2)^2 - 36$
	$36 = 3(x - 2)^2$
	Divide by original "a" on both sides
	$12 = (x - 2)^2$
	Sq. rt. both sides
	+ 3.46 = x - 2
	Add to both roots
	x = +3.46 + 2 = 5.46 (5.46, 0)
	x = -3.46 + 2 = -1.46 (-1.46, 0)
6.) Set x to 0, find y _i	
	$y = 3((0) - 2)^2 - 36$
	$y = 3(-2)^2 - 36$
	y = 3(4) - 36
	y = 12 - 36 = -24 (0, -24)
	I
Left-hand side:	
a.) $y = 5x^2 + 10x - 40$	5.2
b.) y = 2x ² - 3x - 7	e (
c.) $y = \frac{1}{2}x^2 - \frac{2}{3}x - \frac{4}{5}$	
2 2 3 5	- 4. F Hanned
$0 = \frac{1}{2} \left(\chi^{2} - \frac{4}{3} \chi^{2} - \frac{8}{5} \right) = \frac{4}{3} + 2 = \frac{1}{3} + \frac{1}{2}$	
$O = \frac{1}{2} \left(\chi^{-1} - \frac{y_{1}}{3} \chi^{-1} - \frac{y_{2}}{5} \right) = \frac{4}{3} + 2 = \frac{y_{1}}{3} + 2$	
$0 - 2 \sqrt{1}$	- 3X 5 31X 3 X
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0= × ((x 1 ((x) 1 ((x)))))))))))))))))))))))))))))))))))	$\begin{array}{c} \begin{array}{c} \begin{array}{c} -\frac{2}{3} + \frac{1}{2} \\ -\frac{2}{3} + \frac{1}{3} \\ -\frac{1}{3} \\ -\frac{1}{3} + \frac{1}{3} \\ -\frac{1}{3} \\ -\frac{1}{3} + \frac{1}{3} \\ -\frac{1}{3} \\ -$
0= × ((x 1 ((x) 1 ((x)))))))))))))))))))))))))))))))))))	$\begin{array}{c} \begin{array}{c} \begin{array}{c} -\frac{2}{3} + \frac{1}{2} \\ -\frac{2}{3} + \frac{1}{3} \\ -\frac{1}{3} \\ -\frac{1}{3} + \frac{1}{3} \\ -\frac{1}{3} \\ -\frac{1}{3} + \frac{1}{3} \\ -\frac{1}{3} \\ -$
0= × ((x 1 ((x) 1 ((x)))))))))))))))))))))))))))))))))))	$\begin{array}{c} \begin{array}{c} \begin{array}{c} -\frac{2}{3} + \frac{1}{2} \\ -\frac{2}{3} + \frac{1}{3} \\ -\frac{1}{3} \\ -\frac{1}{3} + \frac{1}{3} \\ -\frac{1}{3} \\ -\frac{1}{3} + \frac{1}{3} \\ -\frac{1}{3} \\ -$
0= × ((x 1 ((x) 1 ((x)))))))))))))))))))))))))))))))))))	$\begin{array}{c} \begin{array}{c} \begin{array}{c} -\frac{2}{3} + \frac{1}{2} \\ -\frac{2}{3} + \frac{1}{3} \\ -\frac{1}{3} \\ -\frac{1}{3} + \frac{1}{3} \\ -\frac{1}{3} \\ -\frac{1}{3} + \frac{1}{3} \\ -\frac{1}{3} \\ -$
0= × ((x 1 ((x) 1 ((x)))))))))))))))))))))))))))))))))))	$\begin{array}{c} \begin{array}{c} \begin{array}{c} -\frac{2}{3} + \frac{1}{2} \\ -\frac{2}{3} + \frac{1}{3} \\ -\frac{1}{3} \\ -\frac{1}{3} + \frac{1}{3} \\ -\frac{1}{3} \\ -\frac{1}{3} + \frac{1}{3} \\ -\frac{1}{3} \\ -$
0= × ((x 1 ((x) 1 ((x)))))))))))))))))))))))))))))))))))	$ \begin{array}{c} \begin{array}{c} \begin{array}{c} -\frac{1}{3} \\ -1$
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0= × ((x 1 ((x) 1 ((x)))))))))))))))))))))))))))))))))))	$\begin{array}{c} x - \frac{1}{3} + c - \frac{1}{3} \\ x - \frac{1}{3} + \frac{1}{2} \\ x - \frac{1}{3} + \frac{1}{2} + \frac{1}{3} + \frac{1}{5} \\ x - \frac{1}{3} + \frac{1}{2} + \frac{1}{3} + \frac{1}{5} \\ x - \frac{1}{3} + \frac{1}{2} + \frac{1}{3} + \frac{1}{5} \\ x - \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} \\ x - \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} \\ y - \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} \\ y - \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} \\ y - \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} \\ y - \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} \\ y - \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} \\ y - \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} \\ y - \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} \\ y - \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} \\ y - \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} \\ y - \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} \\ y - \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} \\ y - \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} \\ y - \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} \\ y - \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} \\ y - \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} \\ y - \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} \\ y - \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} \\ y - \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} \\ y - \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} \\ y - \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} \\ y - \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} \\ y - \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} \\ y - \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} \\ y - \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} \\ y - \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} \\ y - \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} \\ y - \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} \\ y - \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} \\ y - \frac{1}{3} + \frac{1}{3} \\ y - \frac{1}{3} + \frac{1}{$
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