



TOTD Solve by		Name reserved:	
Solve each equation	by factoring.		
1) $(7x + 1)(x + 7) = 0$)	2) $p^2 - 6p + 5 = 0$	
3) $r^2 - 49 = 0$		4) $2a^2 - 13a - 7 = 0$	
5) n ² + n = 0			
0 2839 Kasa 5 o ft wa	er SLC. All rights tearre	od. Node with Infinite Algebra L.	

	March 19, 2019, Tuesday
tem 1	8
Construc	cted-Response
an he r \$12.75	acycles bottles and cans. He earns 10 cents for each bottle he recycles and 5 cents for each ecycles. After recycling a bag of bottles and cans, he gets a receipt that states he earned and recycled a total of 210 bottles and cans. To determine the number of bottles and the of cans he recycled, Shaun writes the system of equations below.
	x + y = 210
	10x + 5y = 1275
	provided. Shaun graphs lines to represent the equations in his system. What are the coordinates of the point where the two lines intersect? Write your answer in the space provided.
Part	A
Part	В

Algebra 1 ~ Unit 3B Day 2 MGSE9-12.A.REL4: I can solve a quadratic equ	Solving Quadratic Equations by Square Roo sation with one variable.
A square root is written with the	
 The opposite of being something. The goal is to get the variable something. 	g being squared is to take the
What do you think we should do? ONE	•
1. x ² =25	·
" x ² = 25	$x^2 = 32$
Solve the following TWO Step equation	
3. x ² -7=9	4. x ² + 13 = 5
5. 2x ² = 14	63x ² = 48
5. 2x* = 14	63x" = 48
Solve the following THREE step equation	
7. $5v^2 + 5 = 410$	ND:
7. 5v" +5 = 410	
Solve the following MULTI step equation 8. $(x + 3)^2 = 1$	9. $(x+3)^2 + 7 = -2$
8. (x + 3)* = 1	9. (x+3)+7 = -2
10. $4(x-10)^2 = 25$	11.3(x + 3)2 - 12 = 0

Algebra 1 ~ Unit 3B Day 3 Solve each quadratic equation.	Solving Square Roots Practi	
1. x ² + 4 = 29	2. 3x ² -7 = 47	3. x ² +11=16
4. $(x+4)^2 = 121$	5. $(2x-3)^2 = 9$	6. $(x-7)^2 = 99$
7. (x+3) ² +6-18	8. $(2x+6)^2 - 8 = 24$	9. x ² +21=5
$10.3(x+4)^2 = 9$	11. $3(x^2-4)=2x^2-1$	12. $\frac{2}{5}x^3 - 3 = 7$

Algebra 2	Name_
TOTD Solving Quadratics by Solve each equation by factoring or	
Solve each equation by factoring or : 1) $b^2 + 4b = 0$	taking square roots. 2) $b^2 - 5b - 6 = 0$
1) 0 +40-0	2) 0 -30-0-0
3) $p^2 - 1 = 0$	4) $10v^2 - 17v + 3 = 0$
5) x ² = 4	6) $x^2 + 8 = 12$
7) $36x^2 + 7 = 71$	8) $(x-4)^2 = 25$
	his corrected. Made with Infinite Algebra 2.

Solve each equation by factoring or taking squa $1)\ m^2-3m+2=0$ $3)\ n^2-16=0$	2) $\pi^2 + 5\pi = 0$ 4) $7\pi^2 + 23 + 6 = 0$
3) n ² - 16 = 0	4) $7v^2 + 23v + 6 = 0$
3) n ² - 16 = 0	4) $7v^2 + 23v + 6 = 0$
3) $n^2 - 16 = 0$	4) $7v^2 + 23v + 6 = 0$
3) $n^2 - 16 = 0$	4) $7v^2 + 23v + 6 = 0$
3) $n^2 - 16 = 0$	4) $7v^2 + 23v + 6 = 0$
5) $r^2 = 16$	6) $36n^2 = 16$
7) $8k^2 - 2 = 390$	8) $(x+4)^2 = 25$

Ma	arch 20, 2019, Wednesday
	Item 15 Selected Response The table defines a quadratic function.
Item 14 Selected-Response	x y -1 5 0 1 1 -1 3 1
Senecto response Within Value Is an Irrational number? A. 4 + 17 B. 12 18 C. 13 13 D. 13 - 13	What is the average rate of change between $x=-1$ and $x=17$ A. undefined B. $-\frac{1}{3}$ C. -3 D. -4

Algebra 1 \sim Unit 3B Day 3 MCC9-12.A.REI.4b: I can solv		g Quadratic Equations by Completing the Square c.
	ons can be factored into Pen nese are called Perfect Squa	rfect Squares. Factor the following quadratic are Trinomials:
$x^2 + 6x + 9$	$x^2 - 10x + 25$	$x^2 + 12x + 36$
o Find the constant (c)	ct square trinomial, the	term is missin Idle term then squaring it. Put this number in th quare."
	x2 -	+ 14x +
 Create perfect square trin perfect square trinomials 		per that completes the square. Then factor the
x2 + 20x +	x2 - 4x +	x2 + 5x +
		Completing the Square Example #1
Solve the following equation I square:	by completing the	$x^2 + 8x - 20 = 0$
Step 1: Get all variables on or without variables on the othe		
Step 2: Find the number that the left side of the equation. a sides.		$x^2 + 8x + \underline{\hspace{1cm}} = 20 + \underline{\hspace{1cm}}$
Step 3: Factor the perfect squ side of the equation. Simplify equation.		
Step 4: Take the square root	of both sides.	
Step 5: Set up the two solution	n possibilities and solve.	

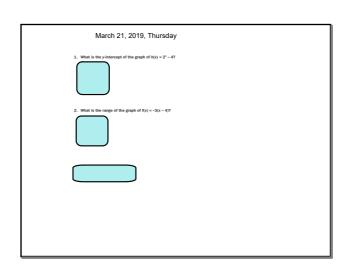
Let's try!	
Solve each equation by completing the square.	
1) r ² + 14r - 45 = 6	2) $m^2 - 16m + 24 = 2$
1) r* + 14r - 45 = 6	2) $m^* - 10m + 24 = 2$
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Algebra 1 ~ Unit 3B Day 3 Solv	ing by Completing the Square Name
MCC9-12.A.REI.4b	
to both sides.	
Solve each equation.	
1. x ² -10x-54=0	2. x ² -18x+77=0
3. $x^2 + 20x - 73 = 0$	4. x²+6x-72=-8
5. x ² -10x-56=6	6. x ² -14x-75=8

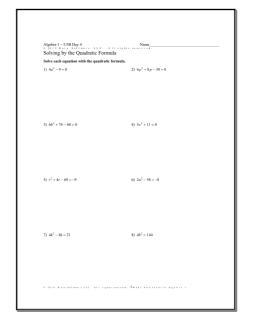
Algebra 2	Name_
TOTD Solving Quadratics (Factor Solve each equation by factoring.	ing/Sq. Root/Completing the Square)
Solve each equation by factoring. 1) $k^2 - 8k = 0$	2) $n^2 - 16 = 0$
1) $k^* - 8k = 0$	2) n ⁻ - 16 = 0
3) $x^2 + 9x + 14 = 0$	4) $5m^2 - 23m - 10 = 0$
Solve each equation by taking square roots	
5) 9x ² = 9	6) $4x^2 + 3 = 403$
Solve each equation by completing the squ	
7) $x^2 - 4x + 3 = 0$	8) $k^2 + 12k + 35 = 0$

Algebra 2	ring/Sq. Root/Completing the Square)
Solve each equation by factoring.	
1) $n^2 - 4n - 21 = 0$	2) $x^2 - 9 = 0$
3) $n^2 - 6n = 0$	4) $2r^2 + 15r - 8 = 0$
Solve each equation by taking square root	
5) -6x ² = -216	6) $8x^2 - 5 = 387$
Solve each equation by completing the squ	are.
7) $n^2 + 16n - 36 = 0$	8) $n^2 - 16n + 60 = 0$

λ	$z = \frac{-(b) \pm }{}$	$\frac{(b)^2 - 4(a)}{2(a)}$	<u>)(c)</u>
Examples: Use the quad $1.2x^2 - 10x - 5 = 0$	fratic formula to solve for x	. ,	
$2.9x^2 + 2 = 3x$			
$3x^2 - 6x = 9$			



Algebra 1 – Day 4 The solution of any quadratic equation $(ax^2+bx+c=0)$ can be found by evaluating the quadratic formula: $x=\frac{-(b)\pm\sqrt{(b)^2-4(a)(c)}}{2(a)}$ Examples Use the quadratic formula to solve for x 2. $9x^2+2=3x$ 2. $9x^2+2=3x$



9) $2a^2 - 5 + 3a = -10 - 8a^2 + 3a$ 10) $a^2 + 8a = 91 + 2a$ 11) $a^2 - 3a - 45 = 9a$ 12) $12p^2 - 9p - 44 = -4p + 8p^2$ 13) $2a^2 + 114 - 138 = 0$ 14) $6a^2 + 7a - 20 = -7$ 14) (6 - 116) 15) 16 (7 - 116) 17) 17 (7 - 116) 18 (7 - 116) 19 (7 - 116) 19 (7 - 116) 19 (7 - 116) 19 (7 - 116) 10 (7 - 116)



Algebra I	Name_	
	ations (any metnod) oring, square root, completing the square, or quadra DRK!!!	itic
1) $p^2 + 2p - 143 = 0$	2) $4x^2 - 9 = 0$	
3) $4x^2 - 7x - 15 = 0$	4) $4v^2 + 3v - 27 = 0$	

