Name:	Date:
Торіс:	Class:

Main Ideas/Questions	Notes/Examples				
TUE	The quadratic formula is another method to use to solve a quadratic equation. Solve the equation below using the quadratic formula.				
		Steps		Example	
QUADRATIC FORMULA	0	Make sure the equation is set equal to 0 and written in standard form .		$x^2 - 5x - 36 = 0$	
$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2}$	2	Identify a , b , and c .			
	3	Substitute these values into the formula and SIMPLIFY!			
	Directions: Solve each equation using the quadratic formula.				
YOU TRY!	1. <i>x</i>	$x^{2} - 8x = 20$		2. $2x^2 + 7x + 3 = 12$	
	3 3	$3x^2 - 12 = 0$		4 $r^2 + 15r - 6r$	
	3. 3	x - 12 = 0		4. $x + 15x = 6x$	
	5. –	$-x^2 - \overline{10x - 21} = 0$		6. $4x^2 + 9x = 12x$	
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	7. $x^2 + 7x = x - 10$	8. $3x^2 - 5x = 4 - 3x^2$	
ΤΟΟΑΤΤΛΝΙΑΙ	Directions:Solve each equation using the quadratic formula. Write all irrational solutions in simplest radical form.9. $x^2 + 4x + 1 = 0$ 10. $-x^2 - 2x + 7 = 0$		
SOLUTIONS			
	11. $x^2 + x + 9 = 20$	12. $4x^2 - 7x = -2$	
	13. $x^2 + 3 = 8x - x^2$	14. $3x^2 - 6x = 12$	