Name:			Date:
Торіс:			Class:
Main Ideas/Questions	Notes/Examples		
SOLVING	In many cases, we can find the solutions (or roots, zeros, <i>x</i> -intercepts) of a quadratic equation by factoring, rather than graphing. Follow the steps below to find the solutions of the given equation by factoring.		
QUADRATICS	• Set the quadratic equation equ	Jal	to 0. Given: $y = x^2 + 3x - 10$
By Factoring	Pactor the left side.		
	Write your answer using curly be	ac	ces.
	Directions: Solve the following quadratic equations by factoring.		tic equations by factoring.
YOU TRY!	1. $x^2 + 4x + 3 = 0$ 3. $x^2 + x - 2 = 0$		2. $x^2 + 11x + 24 = 0$ 4. $x^2 + 6x - 27 = 0$
	5. $x^2 - 10x + 21 = 0$ 7. $x^2 + 10x + 25 = 0$		6. $x^2 - x - 20 = 0$ 8. $x^2 - 8x + 16 = 0$

	9. $x^2 - 8x = 0$	10. $3x^2 + 15x = 0$
	$\mathbf{y} = \mathbf{x}$ $\mathbf{x} = \mathbf{y}$	10.5x + 15x = 0
	11. $6x^2 - 12x = 0$	12. $8x^2 - 6x = 0$
	13. $x^2 - 64 = 0$	14. $x^2 - 25 = 0$
	15. $4x^2 - 81 = 0$	16. $9x^2 - 49 = 0$
	13. $\pi_{\lambda} = 01 = 0$	10. $3x^{-1} + 3 = 0$
	17. $x^2 + 4x = 21$	18. $x^2 - 45 = 4x$
	17. x + 7 x - 21	10. $x = 45 - 4x$
EQUATIONS		
NOT IN		
Standard Form		
	19. $x^2 - 5x - 64 = 7x$	20. $x^2 - 10x + 49 = 4x + 1$
$MOVE \mathrel{\textcircled{\scriptsize{\scriptsize{\scriptsize{\bullet}}}}} FACTOR \mathrel{\textcircled{\scriptsize{\scriptsize{\scriptsize{\scriptsize{\scriptsize{\bullet}}}}}} SOLVE!}$		
	21. $11x^2 = x^2 + 8x$	22. $16x^2 = 9$
	21. $11x^{-} = x^{-} + 0x$	22. $10x^{-} = 9$

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SOLVING QUADRATICS By Factoring (DAY 2!)	Example 1: $3x^2 + 9x - 12 = 0$	Example 2: $5x^2 - 20x - 60 = 0$	
	Example 3: $2x^2 + 3x - 5 = 0$	Example 4: $8x^2 - 22x + 5 = 0$	
	Directions: Solve the following quadratic equations by factoring.		
YOU TRY!	1. $2x^2 + 10x + 8 = 0$	2. $4x^2 - 24x - 28 = 0$	
	3. $3x^2 + 13x - 10 = 0$	4. $5x^2 - 8x + 3 = 0$	

E $2n^2 + 12n = 0$	6 $6x^2$ + $5x$ + 1 = 0
5. $2x^2 + 13x - 7 = 0$	6. $6x^2 + 5x + 1 = 0$
7. $4x^2 - 8x - 5 = 0$	9 $4x^2 + 12x + 0 = 0$
$7.4x^2 - 8x - 5 = 0$	8. $4x^2 + 12x + 9 = 0$
9. $3x^2 + 7x = -2$	10. $8x^2 + 3 = 10x$
11. $12x^2 + 32x = -5$	12. $5x^2 + 7x = x^2 + 2$