Algebra 1 Name _____Date____ Unit 3 Study Guide B Factoring and Solving Quadratic Equations: MGSE9-12.A.REI.4 & MGSE9-12.A.REI.4b

Remember to show work!

Use factoring and the Zero-Product Property to find the zeros (solutions) of the quadratic equations.	
1. $x^2 - 14x - 15 = 0$	2. $3x^2 + 2x - 8 = 0$
3. $5x^2 + 4x - 12 = 0$	4. 2x ² - 50 = 0
5. $x^2 + 3x - 10 = 0$	6. $5x^2 + 10x + 5 = 0$
Solve each equation by using square roo	ots.
7. 3x ² = 27	8. (x + 8) ² = 32
9. $3(x-2)^2 + 4 = 52$	

Solve each equation by completing the square.	
10. $x^2 - 6x + 5 = 0$	11. -12x = $3x^2 - 9$
Use the quadratic formula to solve t 127 x^2 - 5 x +1 = 0	13. $x^2 - 4x - 12 = 0$
14. $x^2 - 5x + 6 = 0$	
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Error Analysis: Find and circle the er	
15. Solve the equation by compl	eting the square.
$x^2 - 8x + 12 = 0$	
$x^2 - 8x = 12$	
$x^2 - 8x + 16 = 12$	
(x - 4) ² = 28	
$x - 4 = \sqrt{28}$	
$x = 4 \pm 2\sqrt{7}$	