Algebra 1 *Remember to show work!* 

Unit 3B Test Review

Name \_\_\_\_\_

Directions: Solve the given quadratics using the best method.

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<b>1.</b> $x^2 - 14x - 15 = 0$	<b>2.</b> $3x^2 + 2x - 8 = 0$
<b>3.</b> $5x^2 + 4x - 12 = 0$	<b>4.</b> $2x^2 - 50 = 0$
5 $y^2 + 3y - 10$	6 $5x^2 + 10x + 5 = 0$
5. x + 5x - 10	0.3x + 10x + 5 = 0
<b>a)</b> $x = -2$ and $x = -5$	<b>a)</b> $x = 1$
<b>b</b> ) $x = 2$ and $x = -5$	<b>b</b> ) $x = -1$
<b>c)</b> $x = 3$ and $x = 10$	(x) = 5
d) $x = 10$ and $x = -1$	d) x = -10
$7 2y^2 - 27$	$(y + y)^2 - 22$
$7. 3x^2 - 27$	<b>6.</b> $(x + 0)^2 = 32$
$0 \mathbf{v}^2 \mathbf{A} = \mathbf{F}$	$10 v^2 6v + E = 0$
<b>9.</b> $x^2 - 4 - 5$	$10.x^2 - 0x + 5 = 0$
<b>a)</b> $x = 1$ and $x = -1$	<b>a)</b> $x = -5$ and $x = -1$
<b>b</b> ) $x = 2$ and $x = -2$	<b>b</b> ) $x = 7$ and $x = 1$
(x) = 3 and $x = -3$	c) $x = 5$ and $x = 1$
d) $\mathbf{x} = A$ and $\mathbf{x} = -A$	d) $\mathbf{v} = 2$ and $\mathbf{v} = -2$
$u_{1}x - \tau a_{1}u_{1}x - \tau$	4) x - 2 a a x - 2
$11. x^2 + 4x - 1 = 2$	$12 / X^2 - 5X + 1 = 0$

$13. x^2 - 4x - 12 = 0$	<b>14.</b> $x^2 + 6 = 5x$
	<b>a)</b> $x = 6$ and $x = 4$
	<b>b</b> ) $x = 1$ and $x = -1$
	c) $x = 2$ and $x = -2$
	<b>d)</b> $x = 3$ and $x = 2$
<i>Error Analysis</i> : Find and circle the error. Then	Find the zeros of the functions graphed below
solve correctly	
	16.
<b>15.</b> Solve the equation by completing the square.	
_	
$x^2 - 8x + 12 = 0$	
$x^2 - 8x = 12$	
$x^2 - 8x + 16 = 12$	-8-51-2-10 12 3 4 5 6
(x - 4) <sup>2</sup> = 28	
$x - 4 = \sqrt{28}$	
$x = 4 \pm 2\sqrt{7}$	17.
	$ \begin{array}{c}                                     $
<b>18.</b> What are the solutions of $(x + 5)(x - 2) = 0$ ?	<b>19.</b> What are the solutions of $(2x - 4)(3x + 7) = 0$ ?
	<b>a)</b> $x = -2$ and $x = -7$
	<b>b)</b> $x = 2$ and $x = -\frac{7}{2}$
	() $x = -4$ and $x = \frac{7}{4}$
	3
	<b>d)</b> $x = 2$ and $x = -2$