D	Pay 5: Quadratic Formula 2018 Kuta Software LLC. All rights reserved.	Date
	When our quadratic equations will not factor, there is a method we can us	e to solve quadratic
	equations, called the	<u></u>
	****You need to memorize this equation!****	
	The quadratic formula is:	
St	$y = Ax^2 + Bx + C$	
2)	The values of A , B , and C come from having the quadratic equation in Sta	ndard Form, where A
	and B are the and C is the	
	*Note: in order for the quadratic formula to work the equation must be set	t equal to
3)	Is this equation able to be factored? $y = x^2 + 4x - 9$	
	Since the answer was no, we will use the quadratic formula to find the x -i must identify the following:	ntercepts. First, we

Now plug in the values of A, B, and C to the quadratic formula:

Next, we want to solve for x by reducing our quadratic formula:

Identify a, b, and c. Then find the x-intercepts using the quadratic formula.

4)
$$y = -2x^2 + 5x + 25$$

$$5) \ \ y = -x^2 + 3x + 10$$

6)
$$y = 9x^2 + 6x + 4$$

7)
$$y = 3x^2 - 17$$

8)
$$f(x) = 4x^2 + 5x + 1$$

9)
$$f(x) = 2x^2 - 4x + 5$$

10)
$$y = 2x^2 - 11x - 40$$

11)
$$y = 3x^2 - 300$$

12)
$$y = 5x^2 - 625$$

13)
$$y = 6x^2 + 11x + 3$$

14)
$$f(x) = 10x^2 + 11x + 5$$

15)
$$f(x) = 12x^2 - 9x + 10$$