Name:

DIRECTIONS: Use the quadratic formula to solve each equation. Show all work on separate piece of paper.

1.	$x^2 + 4x = 4$	2.	$x^2 - 14 = 5x$
3.	$6x^2 + 3 = 11x$	4.	$5x^2 = 8x + 4$
5.	$2x^2 - x = 15$	6.	$\frac{1}{2}x^2 - 3x + 2 = 0$
7.	$2x^2 + 3x - 5 = 0$	8.	$2x = x^2 - 4$
9.	$5x + 2 = 3x^2$	10.	$2x^2 - 8x + 1 = 0$

Find the number of real solutions of each equation using the discriminant. Show all work on separate piece of paper.

1.	$9x^2 - 6x + 1 = 0$	2.	$3x^2 + 10x + 2 = 0$
3.	$x^2 + x + 1 = 0$	4.	$2x^2 - 2x + 3 = 0$
5.	$x^2 + 4x + 4 = 0$	6.	$x^2 - 9x - 4 = 0$
7.	$x^2 + 8x + 16 = 0$	8.	2 x ² + 12x = -7
9.	$\frac{1}{4}x^2 = -x - 1$	10.	$\frac{3}{4}x^2 - 3x = -4$