Name:_____ Date:_____

Quadratic Review! Quadratic Formula and Discriminant

PART A: Discriminant: For each of the following determine the discriminant AND how many solutions (one real, two real, or no real).

1) $9x^2 + 6x + 1 = 0$	2) $-3x^2 - 6x + 9 = 0$
3) $-10x^2 - 2x - 2 = 0$	4) $-8x^2 + 2 = 0$
5) $7x^2 - 5x = -9$ (LOOK OUT! Not =0)	6) $-x^2 - 4x + 1 = 0$

PART B: Quadratic Formula: For each of the following determine the solutions. Leave answers as whole number/fractions or as simplified radicals (no decimals!)

7) $2x^2 + 8x - 10 = 0$	8) $4x^2 - 10x + 4 = 0$

9) $3x^2 + 8x - 1 = 0$	10) $4x^2 + 12x - 18 = 0$
11) $3x^2 - x = 2$ (LOOK OUT! Not =0)	12) $6x^2 - x + 1 = 0$
13) $3x^2 - 20 = -4x$	14) $2x^2 - 6x + 2 = 0$