Algebra 1 Name_____ ID: 1

Lesson 16.3 WS

Date_____ Period____

Solve each equation with the quadratic formula.(which means find the x-ints, zeros and roots)

1) $2n^2 - 11n = 1$

2) $4k^2 = 26 - 5k$

3) $11a^2 = 8a + 1$

4) $3k^2 = 5 + 8k$

Find the discriminant of each quadratic equation then state the number and type of solutions.

5) $-9n^2 - 3 = -6n$

6) $n^2 - 6n = -9$

7) $2n^2 = 9n + 5$

8) $-10n^2 + 5n = 6$

Find the vertex of the quadratric.

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

10) $y = 3x^2 - 24x + 45$

11) $y = x^2 - 6x + 11$

12) $y = -x^2 + 6x - 5$