Algebra 1 Name_____



# 10-6 The Discriminant

Date_____ Period____

**Find the discriminant of each quadratic equation then state the number of solutions. If the equation has one or more solutions, use the quadratic formula to find the solution(s).**

1) $-4n^2 - 8n - 4 = 0$

2) $-5a^2 + 2a + 3 = 0$

3) $-5x^2 - 5x - 5 = 0$

4) $-4p^2 + 8p - 5 = 0$

5) $-x^2 + 2x + 3 = 4$

6) $-m^2 + 4m + 3 = 7$

7) $9x^2 + 5x + 1 = -4$

8) $-4b^2 + 4b - 10 = -9$

9) $-9b^2 + 6b = 1$

10) $x^2 = -4 - 4x$