Algebra 2 Name _____

Lesson 2.6 Worksheet

Block _____ Date _____

Find the zeros of each function by using the Quadratic Formula. $x = \frac{-b \pm \sqrt{b^2-4ac}}{2a}$

1) $f(a) = 2a^2 + 2a + 10$

a = _____ b = _____ c = _____

2) $f(b) = 7b^2 - 8b - 8$

a = _____ b = _____ c = _____

3) $f(v) = v^2 + 3v + 3$

a = _____ b = _____ c = _____

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

a = _____ b = _____ c = _____

5) $f(n) = 4n^2 - 8n + 12$

a = _____ b = _____ c = _____

6) $f(n) = 5n^2 + 12n - 8$

a = _____ b = _____ c = _____

Find the discriminant. Identify the number of solutions.

7) $-3v^2 - 6v = 0$

a = _____ b = _____ c = _____

8) $-8x^2 - 8x = 2$

a = _____ b = _____ c = _____

9) $-x^2 - 3x = -10$

a = _____ b = _____ c = _____

10) $-2p^2 + 4p - 4 = 0$

a = _____ b = _____ c = _____