

Quad Formula & Disc

Date _____ Period _____

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

1) $-9a^2 + 6a - 6 = -5$

2) $-4x^2 - 8x - 10 = -6$

3) $-5b^2 + b + 2 = -2$

4) $-5x^2 - 7x + 6 = 8$

5) $2n^2 - 4n + 5 = 5$

Solve each equation with the quadratic formula.

6) $r^2 - 32 = -4r$

7) $a^2 = -10a - 16$

8) $3p^2 - 35 = -8p$

9) $2x^2 + 14 = 11x$

10) $9n^2 - 13 = 0$

11) $a^2 = 144$

12) $6x^2 - 11x = 140$

13) $2b^2 = -12b - 7$

14) $7x^2 = 12$

15) $11x^2 - 13 = 0$