

Quadratic Formula and Discriminant

Date _____ Period _____

Solve each equation with the quadratic formula.

1) $r^2 + 2r - 3 = 0$

2) $2n^2 - n - 15 = 0$

3) $r^2 + 4r - 21 = 0$

4) $7b^2 - b = 15$

5) $2n^2 = -n + 15$

6) $5x^2 = -1$

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

7) $-3p^2 + 3p + 6 = 0$

8) $x^2 - 2x + 1 = 0$

9) $r^2 = 2r - 1$

10) $4x^2 = -1 + 4x$