Name:_____

Discriminant and Quadratic Formula

Hour:_____

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

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

2) $9x^2 - x + 12 = 0$

3) $-4n^2 - 12n - 9 = 0$

4) $4p^2 + 6p + 7 = 11$

Solve each equation with the quadratic formula.

5) $10n^2 - 8 = 0$

6) $4x^2 + 2x - 110 = 0$

7) $8x^2 + 12x - 9 = 0$

8) $2k^2 - 3k - 12 = 5$