

8.8 The Quadratic Formula and Discriminant #2

Date _____ Period _____

1. Write each equation in standard form if it is not already in standard form.
2. State the values of a, b, and c.
3. Use the quadratic formula to find the solutions of the quadratic equation.

1) $r^2 + 3r - 70 = 0$

2) $m^2 + 7m + 6 = 0$

3) $x^2 - 5x - 126 = 0$

4) $2n^2 - 10n - 132 = 0$

5) $2a^2 + a - 36 = 0$

6) $4a^2 - 2a - 20 = 0$

$$7) r^2 + r - 9 = 11$$

$$8) x^2 - 2x - 17 = -9$$

$$9) n^2 - 5n - 8 = 0$$

$$10) n^2 - 3n - 8 = 0$$

$$11) 12k^2 + 12k = 15$$

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