

## QUADRATIC FORMULA HANDOUT

Name \_\_\_\_\_

To solve a quadratic equation in the form  $ax^2 + bx + c = 0$ , use the quadratic formula:

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

Solve the following equations using the quadratic formula. Show your work!!

1.  $x^2 + 8x + 15 = 0$

2.  $x^2 - 5x + 6 = 0$

3.  $x^2 + 14x + 24 = 0$

4.  $x^2 - 7x - 30 = 0$

5.  $4x^2 + 4x + 1 = 0$

Solve the following equations and leave in radical form:

6.  $x^2 + 5x + 2 = 0$

7.  $3x^2 + 7x + 3 = 0$

8.  $x^2 - 3x - 8 = 0$

9.  $2x^2 + 3x - 6 = 0$

Solve, convert to decimal form, and round to the nearest hundredth:

10.  $x^2 - 6x + 7 = 0$

11.  $2x^2 + 8x + 3 = 0$

12.  $5x^2 + 2x = 2$