

Name: _____

Date: _____

Topic: _____

Class: _____

Main Ideas/Questions	Notes/Examples
THE QUADRATIC FORMULA $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$	① Write the equation in STANDARD FORM , $ax^2 + bx + c = 0$
	② Identify a, b, and c. SUBSTITUTE them into the formula.
	③ SIMPLIFY!

Directions: Solve each quadratic equation below using the quadratic formula.

1. $x^2 + 2x - 63 = 0$

2. $6x^2 - 11x - 10 = 0$

3. $x^2 - 8x + 4 = 0$

4. $2x^2 - 20x + 89 = -87$

5. $x^2 + 2x + 37 = 0$

6. $3x^2 = 3 - 42x$

7. $2x^2 - 28x = -134$

8. $-2x^2 + 17 = 8x - 1$

9. $-8x^2 + 7 = 4$

10. $-x^2 + 10x = 8$

11. $-3x^2 + 8x - 7 = 0$

12. $5x^2 + 9 = 4x + 5$