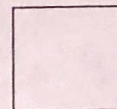


Name: _____

Unit 8: Quadratic Equations



Date: _____ Bell: _____

Homework 10: Solving Quadratics by
The Quadratic Formula

**** This is a 2-page document! ****

Solve each quadratic equation by the quadratic formula.

Simplify all irrational solutions. *round decimals to 1 place.*

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

1. $x^2 - 2x - 48 = 0$

$a =$ $b =$ $c =$

2. $6x^2 - 15x = 0$

$a =$ $b =$ $c =$

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

$a =$ $b =$ $c =$

4. $x^2 + 4x + 17 = 8 - 2x$

$a =$ $b =$ $c =$

5. $4x^2 - 25 = 0$

$a =$ $b =$ $c =$

6. $6x^2 + 18x = x - 12$

$a =$ $b =$ $c =$

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

$a =$ $b =$ $c =$

8. $-x^2 + 7x - 18 = 0$

$a =$ $b =$ $c =$

9. $2x^2 - 8x - 2 = 3$

$a =$ $b =$ $c =$

10. $10x^2 - 19 = 5$

$a =$ $b =$ $c =$

11. $4x^2 - 1 = 6x$

$a =$ $b =$ $c =$

12. $2x^2 + 12x = 4 - x^2$

$a =$ $b =$ $c =$