

Name: \_\_\_\_\_

Unit 8: Quadratic Equations



Date: \_\_\_\_\_ Bell: \_\_\_\_\_

Homework 11: Solving Quadratics Review

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

**Solve each equation by factoring.**

1.  $x^2 + x - 42 = 0$

2.  $4x^2 + 24x + 36 = 0$

3.  $14x^2 + 6x = 2x$

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

5.  $3x^2 + 23x - 8 = 0$

6.  $8x^2 = 3 + 2x$

**Solve each equation by square roots.**

7.  $x^2 + 4 = 29$

8.  $9x^2 - 1 = 0$

9.  $27 - 2x^2 = -53$

10.  $\frac{2}{3}x^2 - 16 = 32$

**Solve each equation by completing the square.**

**11.**  $x^2 + 8x - 33 = 0$

**12.**  $x^2 - 57 = 2x + 5$

**13.**  $-x^2 + 15x = 73 - 3x$

**14.**  $4x^2 + 8x - 45 = 0$

**Solve each equation by the quadratic formula.**

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

**16.**  $8x^2 - 3 = 8x + 10$