

**Algebra I Worksheet #7 Unit 13 page 1** \_\_\_\_\_

Solve each of the following **using the factoring method**. Show all of your work neatly organized.

1.  $x^2 + 5x - 14 = 0$

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

3.  $9x^2 - 12x + 4 = 0$

4.  $6x^2 - x - 12 = 0$

Solve each of the following **using the square root property**. If any solution is irrational, then give its exact value in standard radical form. Show your work neatly organized.

5.  $x^2 - 8 = 0$

6.  $x^2 - 6 = 0$

7.  $9x^2 - 4 = 0$

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

## Algebra I Worksheet #7 Unit 13 page 2

Solve each of the following **using the complete the square method**. If any solution is irrational, then give its exact value in standard radical form. Show your work neatly organized.

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

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

11.  $2x^2 - 12x + 15 = 0$

12.  $3x^2 + 4x - 1 = 0$

Solve each of the following **using the quadratic formula**. If any solution is irrational, then give its exact value in standard radical form. Show your work neatly organized.

13.  $x^2 + 3x + 1 = 0$

14.  $2x^2 - 5x - 3 = 0$

15.  $5x^2 - 9x + 3 = 0$

16.  $3x^2 + 2x - 3 = 0$