

**Algebra I Worksheet #2 Unit 12 page 1** \_\_\_\_\_

Use the factoring method to solve each equation. Show your work neatly organized in the space provided.

1.  $x^2 = 6x + 16$

2.  $x^2 + 24 = -11x$

3.  $x^2 = 7x - 6$

4.  $x^2 + x = 30$

5.  $10x^2 = 13x + 3$

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

7.  $10x^2 + 1 = 7x$

8.  $18x^2 = 23x + 6$

9.  $x^2 = 5x$

10.  $x^2 = -10x$

## Algebra I Worksheet #2 Unit 12 page 2

Use the factoring method to solve each equation. Show your work neatly organized in the space provided.

11.  $5x^2 = x$

12.  $8x^2 = -3x$

13.  $x^2 = 49$

14.  $16x^2 = 25$

15.  $x^2 = 8x - 16$

16.  $x^2 + 64 = -16x$

17.  $49x^2 = 42x - 9$

18.  $-20x = 100x^2 + 1$

19.  $(4x - 1)(x - 5) = (x - 2)^2 - 9$

20.  $x(2x + 3) = x(x + 3)$