## General Algebra II Worksheet #3 Unit 8 Selected Solutions

Use the factoring method to solve each of the following equations. Show your process neatly organized.

3. 
$$x^2 - 100 = 0$$
6.  $x^2 - 8x + 15 = 0$ 9.  $3x^2 + 14x + 15 = 0$  $(x + 10)(x - 10) = 0$  $(x - 3)(x - 5) = 0$  $(3x + 5)(x + 3) = 0$  $x + 10 = 0$  or  $x - 10 = 0$  $x - 3 = 0$  or  $x - 5 = 0$  $3x + 5 = 0$  or  $x + 3 = 0$  $x = -10$  or  $x = 10$  $x = 3$  or  $x = 5$  $x = -5/3$  or  $x = -3$ 

12. 
$$10x^{2} + 13x - 3 = 0$$
  
 $(5x - 1)(2x + 3) = 0$   
 $x^{2} - 4 = 0$   
 $x = 1/5 \text{ or } x = -3/2$   
15.  $x^{2} + 3x = 3x + 4$   
 $x^{2} - 4x = 0$   
 $(x + 2)(x - 2) = 0$   
 $x + 2 = 0 \text{ or } x - 2 = 0$   
 $x + 2 = 0 \text{ or } x - 2 = 0$   
 $x + 2 = 0 \text{ or } x - 2 = 0$   
 $x + 2 = 0 \text{ or } x - 2 = 0$   
 $x + 2 = 0 \text{ or } x - 2 = 0$   
 $x = 0 \text{ or } x - 8 = 0$   
 $x = 0 \text{ or } x - 8 = 0$   
 $x = 0 \text{ or } x = 8$