

## Algebra I

## 8.6 Worksheet #2

## The Quadratic Formula

NAME: \_\_\_\_\_

DATE: \_\_\_\_\_ HOUR: \_\_\_\_\_

Solve each equation for "x" using the quadratic formula. Show all your work.

*Hints: Set each equation equal to zero. There may be 0, 1 or 2 solutions.*

$$d = (b)^2 - 4ac$$

$$x = \frac{(-b \pm \sqrt{d})}{2a}$$

Example:  $x^2 - 7x + 12 = 0$

a =      b =      c =

d =

x =

1.  $x^2 - 10x - 11 = 0$

a =      b =      c =

d =

x =

4.  $6x^2 + 5x + 4 = 3$

a =      b =      c =

d =

x =

2.  $x^2 + x - 30 = 0$

a =      b =      c =

d =

x =

5.  $-3x^2 + 4x - 8 = 0$

a =      b =      c =

d =

x =

3.  $x^2 - 4x - 45 = 0$

a =      b =      c =

d =

x =

6.  $8x^2 + 8x + 2 = 0$

a =      b =      c =

d =

x =

7.  $2x^2 - 5x - 3 = 0$

a =      b =      c =

d =

x =

11.  $x^2 - 4x + 3 = 0$

a =      b =      c =

d =

x =

8.  $x^2 - 121 = 0$

a =      b =      c =

d =

x =

12.  $5x = 3x^2 + 11x - 9$

a =      b =      c =

d =

x =

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

a =      b =      c =

d =

x =

13.  $x^2 + 7x = -10$

a =      b =      c =

d =

x =

10.  $x^2 - 6x = -9$

a =      b =      c =

d =

x =

14.  $x^2 + 4x + 4 = 0$

a =      b =      c =

d =

x =