



Topic/Objective: AGS 2 Module 3.6

Name:

Period:

Date:

**Essential Question:** How do you know which method to use to solve quadratics?

Questions:

**Notes:**

There are 4 methods to solve quadratic equations.

**METHOD #1**

Solve using Square Root Method:

1.  $x^2 + 4 = 24$

2.  $(x + 1)^2 = 25$

**METHOD #2**

Solve using Completing the Square:

3.  $x^2 + 6x = -12$

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

**METHOD #3**Solving using Factoring:

5.  $x^2 + 4x - 12 = 0$

6.  $2x^2 + 9x - 5 = 0$

**METHOD #4**Solve using Quadratic Formula:

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

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

a =

b =

c =

8.  $x^2 + 6x - 1 = 0$

a =

b =

c =

Summary: How do you know which method to use to solve quadratics?