Solving Quadratic Equations
Quadratic Formula vs. Factoring vs. Square Root Method

Name: _____   **Period: _____ #: _____**

What is the standard form of a Quadratic Equation? _____

We have learned three different methods for solving quadratic equations. You can always use the Quadratic Formula, but sometimes it is easier to use another method.

Method	**When to use**
Square Root Method	_____
Factoring Method	_____
Quadratic Formula	_____

Write the Quadratic Formula: _____

Solve the equation using the square root method.

1. $6x^2 - 24 = 0$ 2. $2x^2 + 18 = 0$

Solve the equation using the factoring method.

3. $x^2 + 8x + 12 = 0$ 4. $x^2 + x - 6 = 0$

Solve the equation using the Quadratic Formula.   Write the Quadratic Formula for both problems.

5. $2x^2 - 7x + 3 = 0$ 6. $-3x^2 + 7x = -10$

Which method would you choose to solve each equation (which would be the easiest)? Explain. You don't need to solve these problems.

	__Method__	__Why?__
7. $15x^2 + 7x = 4$	_____	_____
8. $x^2 - 9x + 20 = 0$	_____	_____
9. $4x^2 - 36 = 0$	_____	_____
10. $3x^2 + 39x + 108 = 0$	_____	_____

11. Memorize the Quadratic Formula!!!   Practice writing it!