Assessment Title: Solving Quadratic Equations Unit 3: Quadratic Functions Working with Equations

Learning Targets:

 I can solve qu 	adratic equations	using a	variety of	methods.
------------------------------------	-------------------	---------	------------	----------

Name:_____

Part I: Solve each quadratic equation for x. Indicate the method you chose to solve and explain why you chose that method.

1.
$$(x+2)(x-3) = 0$$

$$2. \quad x^2 - 24x + 144 = 0$$

Method: _____Explain:

Method: ______Explain:

3. $x^2 = 81$

4. $x^2 - 5x - 50 = 0$

Method: _____

Method: _____

Explain:

Explain:

Assessment Title: Solving Quadratic Equations Unit 3: Quadratic Functions Working with Equations

5.
$$x^2 + 14x = 32$$

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

Method: ______ Explain: Method: ______Explain:

$$7. x^2 + 14x - 51 = 0$$

$$8.6x^2 + 3x - 3 = 0$$

Method: _____

Explain:

Method:

Explain:

Assessment Title: Solving Quadratic Equations Unit 3: Quadratic Functions Working with Equations

Part II: Write a	quadratic ed	uation with the	given	characteristics.

9. x-intercepts at x = 2 and x = -7

Quadratic Equation:

10. Only one x-intercept at x = 3

Quadratic Equation: