

Name:

Date:

Topic:

Class:

Main Ideas/Questions	Notes/Examples	
<p>Choosing the BEST METHOD</p>	METHOD	BEST USED WHEN
	FACTORING	
	SQUARE ROOTS	
	COMPLETING THE SQUARE	
	QUADRATIC FORMULA	
<p>When is it FACTORABLE?</p>		
<p>EXAMPLES</p> <p>(HINT: Use the discriminant to determine if it's factorable!)</p>	<p>Directions: Choose a method and solve each equation below. You can only use each method once.</p>	
	<p>1. $x^2 - 6x + 7 = 73$</p> <p><input type="checkbox"/> F <input type="checkbox"/> SR <input type="checkbox"/> CS <input type="checkbox"/> QF</p>	<p>2. $9x^2 - 4 = 0$</p> <p><input type="checkbox"/> F <input type="checkbox"/> SR <input type="checkbox"/> CS <input type="checkbox"/> QF</p>
	<p>3. $2x^2 + 8x + 10 = 3$</p> <p><input type="checkbox"/> F <input type="checkbox"/> SR <input type="checkbox"/> CS <input type="checkbox"/> QF</p>	<p>4. $x^2 + 9x + 14 = 0$</p> <p><input type="checkbox"/> F <input type="checkbox"/> SR <input type="checkbox"/> CS <input type="checkbox"/> QF</p>

Directions: Solve each equation below using your method of choice. Simplify all irrational solutions.

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

6. $10x^2 + x - 2 = 0$

7. $5x^2 - 15x - 50 = 0$

8. $36x^2 = 9x$

9. $-x^2 + 16x - 63 = 0$

10. $x^2 + 10x = 4$

11. $6x^2 - 16 = 32$

12. $4x^2 = 4x + 7$

Name: _____

Unit 8: Quadratic Equations



Date: _____ Bell: _____

Homework 12: Solving Quadratics by
Method of Choice

**** This is a 2-page document! ****

Solve each equation by factoring, square roots, completing the square, or the quadratic formula. Simplify all irrational solutions.

1. $x^2 + 11x + 28 = 0$

2. $10x^2 - 12x = 0$

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

4. $8x^2 = 32$

5. $10x^2 - x - 3 = 0$

6. $3x^2 - 36 = 12x$

7. $-x^2 + 4x - 54 = 0$

8. $7 - 2x^2 = -47$

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

10. $4x^2 - 2x + 1 = 2x$

11. $3x^2 - 5x = 14 - 4x$

12. $\frac{2}{3}x^2 - 7 = 47$

13. $4x^2 - 6x + 1 = 6$

14. $-2x^2 + 24x - 24 = 0$

15. $16x^2 + 7 = 16$

16. $9x^2 - 6x + 10 = 11$