Topic: Solving

Quadratic Formula

Level 2	Level 3	Level 4
Students will recognize or recall specific vocabulary such as:	Students demonstrate they have developed	• Students will demonstrate they
Quadratic equation, quadratic formula	the ability to:	have developed the ability to
Students demonstrate they have developed the ability to:	 Solve quadratic equations in one 	extend their level 3 knowledge to
 Solve quadratic equations in one variable using: 	variable using:	systems with three variables.
 Zero Product Property 	 Quadratic Formula 	
 Factoring 	 Taking Square Roots 	

Level 3

You Tube

Watch (and take notes) the lecture called <u>Quadratic Formula</u>.

1. Find the solutions using the Quadratic Formula (QF). (*Choose 3 to complete. Do the rest for more practice.*) a. $2x^2 + 2x - 12 = 0$ c. $k^2 + 5k - 6 = 0$ e. $x^2 - 5x - 24 = 0$

b. $5x^2 + 3x + 1 = 0$ d. $2a^2 - a - 13 = 0$ f. $x^2 - 3x - 3 = 0$

 Algebra 1 S2
 Name:
 Block:

2. Find the solutions using the Quadratic Formula (QF). (*Choose 3 to complete. Do the rest for more practice.*) a. $2x^2 - x - 13 = 2$ c. $x^2 = 9x - 20$ e. $9x^2 - 11 = 6x$

b.
$$2x^2 - x - 4 = 2$$
 d. $x^2 = -3x + 40$ f. $4x^2 - 8 = x$

 Algebra 1 S1
 Name: _______Block: ______

Level 4 (you don't need to complete level 4 questions to turn in this assignment)

3. The border of a picture frame measures x inches. The length of the picture with the border is 40 inches, and the width of the picture with the border is 24 inches. If the area of the picture is 192 square inches, find the dimensions of the picture.