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NICK 12.	Quadratics	Dovious	trom	11/10+10	7
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Directions: We will be factoring and solving quadratics frequently throughout this unit. Below are "I Can..." statements from your Math 2 coursework. You should read the I Can Statement then complete the problem in the Prove It column. Tomorrow you will check your work. If it is not correct, you need to complete the Improve It column at the indicated station.

	I can	Prove It	Improve It
1	Factor a trinomial where a=1.	$x^2-2x-24$ Check your work: Correct Incorrect (If your answer is incorrect you need to go to Station 1.)	Read through Factoring Quadratics using the Diamond handout. Focus on Example One. Then complete the problems at the station which match this "I can" statement.
2	Factor a trinomial where $a \neq 1$.	$2x^2 - 7x + 6$	Read through Factoring Quadratics using the Diamond handout. Focus on Example 2. Then complete the problems at the station that focus on this "I can" statement.
		Check your work: Correct Incorrect (If your answer is incorrect you need to go to Station 1.)	

3	Solve a quadratic equation	$6x^2 + 5x = 4$	Read the step to solving at the station then practice the
	by factoring.		two problems provided.
		Check your work: Correct Incorrect	
		(If your answer is incorrect you need to go to Station 3.)	
4	Factor a difference of	$9x^2 - 36$	Work through the multiplication problems to find the
	squares.		pattern then practice the two factoring problems.
		Check your work: Correct Incorrect	
		(If your answer is incorrect you need to go to Station 2.)	

5	Solve a quadratic equation	$49x^2 + 112x + 64 = 0$	Work through the multiplication problems to find the
	with a perfect square		pattern then practice the problem provided.
	trinomial by factoring.		
		Check your work: Correct Incorrect	
		(If your answer is incorrect you need to Station 5.)	
6	Identify the axis of	$f(x) = 3x^2 + 12x - 2$	Read the reminder of how to find the axis of symmetry
	symmetry without a calculator.		from an equation then do the two practice problems.
	culculator.		
		Check your work: Correct Incorrect	
		(If your answer is incorrect you need to go to Station 4.)	

		$3x^2 - 2 = -7x$	Read the example using the Quadratic formula then
	Solve a quadratic using the quadratic formula.		complete problems 1 & 2.
		Check your work: Correct Incorrect	
		(If your answer is incorrect you need to go to Station 6.)	
8	Solve a quadratic equation	$-6x^2 + 5x = -15$	Read the instructions for finding zeros and find the zeros
	using a graphing calculator.		for three functions.
		Check your work: Correct Incorrect	
		(If your answer is incorrect you need to go to Station 7.)	
		Check your work: Correct Incorrect (If your answer is incorrect you need to go to Station 7.)	

	how to sketch a graph
quadratic without my without a calculator.	
calculator	
Check your work: Correct Incorrect	
(If your answer is incorrect you need to go to Station 4.)	
Complete the square to $x^2 + 10x + 18 = g(x)$ Read through the explanation the	
write a quadratic equation in statement then work through pr	roblems 1 & 2.
vertex form.	
Check your work: Correct Incorrect	
(If your answer is incorrect you need to go to Station 9.) *More space on next page.	

11. HN	Complete the square to solve a quadratic equation.	$3x^2 + 24x = -15$	This has two parts: First read the explanation of what a perfect square trinomial is and try the practice
ONLY			problems. Then read the example of how to use completing the square to solve a quadratic.
		Check your work: Correct Incorrect(If your answer is incorrect you need to go to Station 8.)	