

NCM3: Quadratics Review from Math 2

Name: \_\_\_\_\_ # \_\_\_\_\_

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. <b>Focus on Example One.</b> Then complete the problems at the station which match this “I can” statement.
2	Factor a trinomial where $a \neq 1$ .	$2x^2 - 7x + 6$          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. <b>Focus on Example 3.</b> Then complete the problems at the station that focus on this “I can” statement.



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



9	Sketch a graph of a quadratic without my calculator	$g(x) = -2(x + 5)(x - 3)$           Check your work: Correct _____ Incorrect _____ (If your answer is incorrect you need to go to Station 4.)	Complete problems 1-3 to learn how to sketch a graph without a calculator.
10	Complete the square to write a quadratic equation in vertex form.	$x^2 + 10x + 18 = g(x)$           Check your work: Correct _____ Incorrect _____ (If your answer is incorrect you need to go to Station 8.)	Read through the explanation that goes with this "I can" statement then work through problems 1 & 2.           *More space on next page.

