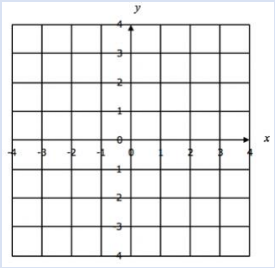
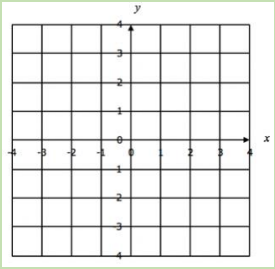
Name _____

RETRIEVAL WARM UP

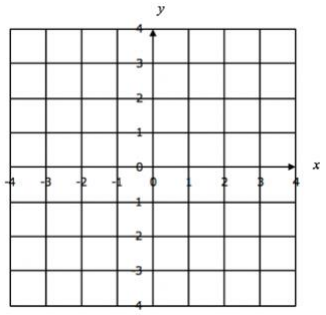
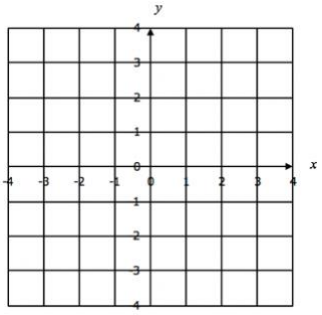
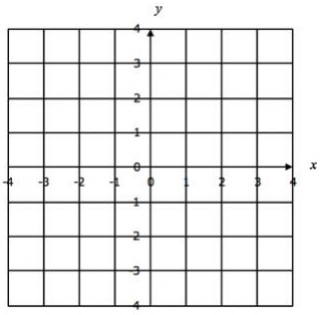
Take 5 minutes to complete as many problems as you can from each topic.

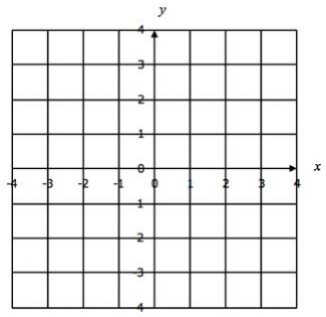
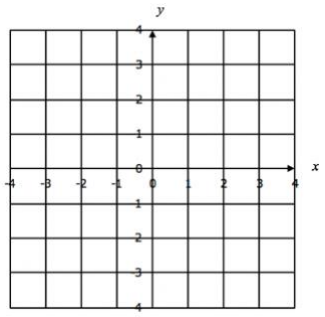
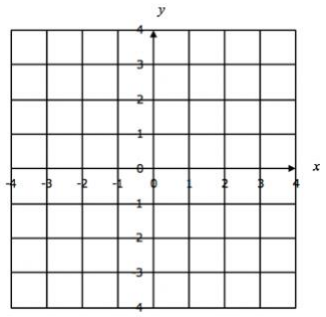
Current Topic – Solving Quadratics	**What are other words for x-intercept?**	**What is the coefficient of $5x^2$?**	**What does the equation need to be set equal to in order to solve a quadratic equation?**
Last Unit – Graphing Quadratics	**Sketch a quadratic function with x-intercepts at (2, 0) and (-2, 0).** 	**What axis do the solutions of a quadratic graph cross?**	**How many solutions can a quadratic function have?**
2 Units ago – Polynomials	**Circle the like terms:** $2x \quad 5y \quad 4x$	**What is the resulting exponent when you multiply $x \cdot x$?**	**How many terms are there in the expression, $x^2 - 17x - 60$?**
Last Semester – Linear	**Sketch a linear function with an x-intercept of (2, 0).** 	**Solve the equation, $2x + 1 = 0$.**	**Describe the shape of a linear function.**

⇒ **How do the topics relate to each other? List as many connections as you can.**

Name _____

Connected Practice

2 Units ago: Polynomials	**Solve the given function, $f(x) = x^2 + 2x - 3$, by factoring first.** **State the linear factors:**	**Solve the given function, $f(x) = x^2 + 4x + 4$, by factoring first.** **State the linear factors:**	**Solve the given function, $y = 2x^2 + 9x + 4$, by factoring first.** **State the linear factors:**
Last Semester: Linear	**State the x-intercepts as points.**	**State the x-intercepts as points.**	**State the x-intercepts as points.**
Last Unit: Graphing Quadratics	**Sketch the quadratic function. Include the x-intercepts and the vertex.** 	**Sketch the quadratic function. Include the x-intercepts and the vertex.** 	**Sketch the quadratic function. Include the x-intercepts and the vertex** 

2 Units ago: Polynomials	**Solve the given function, $f(x) = 3x^2 - 10x - 8$, by factoring first.** **State the linear factors:**	**Solve the given function, $x^2 + 5x = -4$, by factoring first.** **State the linear factors:**	**Solve the given function, $x^2 - 9 = 0$ by factoring first.** **State the linear factors:**
Last Semester: Linear	**State the x-intercepts as points.**	**State the x-intercepts as points.**	**State the x-intercepts as points.**
Last Unit: Graphing Quadratics	**Sketch the quadratic function. Include the x-intercepts and the vertex.** 	**Sketch the quadratic function. Include the x-intercepts and the vertex.** 	**Sketch the quadratic function. Include the x-intercepts and the vertex.** 
Current Topic: Solving Quadratics	**Name** _____ **What did you learn from comparing factoring to the quadratic and its graph?**		