Name:_____

Date: _____

Use the following to review for you test. Work the Practice Problems on a separate sheet of paper.

Торіс	Things to remember	Examples		
		1. Use the graph to answer the following.	2. Use the graph to answer the following.	
Characteristics of Quadratics	Vertex: (h, k) Axis of Symmetry: x = h		2 -1 -1 -2 -3 -4 -5 -6 -7 -8 -x	
		Equation:	Equation:	
		Vertex:	Vertex:	
		A.O.S.:	A.O.S.:	
Transformations	Negative in front reflects across x-axis Number in front stretches or shrinks Number inside parenthesis moves left or right Number alone moves up or down	Describe the transformations: $-\frac{1}{3}f(x+2)+1$ 3. Write a quadratic equation that has been reflected and shifted right 7.	Describe the transformations: f(x - 4) + 3 4. Write the equation of a quadratic that has a vertex at (-5, -3), opens up, and is stretched by a factor of 2.	
Graph Quadratics in Vertex Form	Vertex (h, k) AOS = h Table, Edit Function, Start = AOS Scroll up and down to get other ordered pairs	5. Graph the following function. $f(x) = (x+7)^2 + 4$	6. Graph the following function. $f(x) = -2(x-4)^2 + 8$	

Graph Quadratics in Standard FormAOS: $x = \frac{-(b)}{2a}$ Vertex $\left(\frac{-(b)}{2a}, f\left(\frac{-(b)}{2a}\right)\right)$ Table, Edit Function, Start = AOS Scroll up and down to get other ordered pairs7. Graph the following function. $f(x) = x^2 - 6x + 5$ 8. Graph the following function. $f(x) = -x^2 - 6x + 8$	+
Graph Quadratics in Standard Form Standard Form $\begin{array}{c} \text{AOS: }_{x = \frac{-(b)}{2a}} \\ \text{Vertex} \left(\frac{-(b)}{2a}, f\left(\frac{-(b)}{2a} \right) \right) \\ \text{Table, Edit Function,} \\ \text{Start = AOS} \\ \text{Scroll up and down to} \\ \text{get other ordered} \\ \text{pairs} \end{array}$	1
Graph Quadratics in Standard Form $AOS: x = \frac{-(b)}{2a}$ Vertex $\left(\frac{-(b)}{2a}, f\left(\frac{-(b)}{2a}\right)\right)$ Table, Edit Function, Start = AOS Scroll up and down to get other ordered pairs	+
Graph Quadratics in Standard FormVertex $\left(\frac{-(b)}{2a}, f\left(\frac{-(b)}{2a}\right)\right)$ Table, Edit Function, Start = AOS Scroll up and down to get other ordered pairsImage: Constant of the second	*
Graph Quadratics in Standard FormTable, Edit Function, Start = AOS Scroll up and down to get other ordered pairsTable, Edit Function, transport the start = AOS the start = AOS 	+
Quadratics in Standard Form Table, Edit Function, Start = AOS Scroll up and down to get other ordered pairs	•
Standard Form Start = AOS Scroll up and down to get other ordered pairs	+
get other ordered pairs	+
	+
9. $f(x) = (x+2)^2 - 8$ 10. $f(x) = -3(x-5)^2 + 1$	
Expand the binomial.	
Change form Distribute any number	
Vertex to in front of the Standard Form parenthesis.	
Combine like ferms.	
11. $f(x) = x^2 - 2x - 8$ 12. $f(x) = -2x^2 - 16x - 32$	
Find a	
Find the h-value by using x = -b/2a	
Change from Plug in the x to find the	
Standard Form h-value	
Write in vertex form. 13. $f(x) = x^2 + 10x + 20$ 14. $f(x) = x^2 + 6x + 9$	
Do 11-12 by hand,	
and 13-14 in the calculator.	
15. $f(x) = 2x^2 - 12x + 25$ 16. $f(x) = -(x-2)^2 + 4$	
Opens Up or Down? Opens Up or Down?	
Find the axis of Axis of Symmetry: Axis of Symmetry:	
Quadratic slope, and y-intercepts Vertex: Vertex: Functions in based on the Vertex:	
Different Forms equation or table Zeros: Solutions:	
y-intercept: y- intercept:	