

WORD: Quadratic Function		PAGES:		WORD: Quadratic Formula		PAGES:	
DEFINITION: a function whose standard form is written $x^2 + bx + c$ where $a, b,$ and c are real numbers and $a \neq 0$. The graph is a parabola.				DEFINITION: the formula $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$ which gives solutions, or roots, of a quadratic equation in standard form.			
EXAMPLE(S):		COUNTEREXAMPLE(S):		EXAMPLE(S):		COUNTEREXAMPLE(S):	
WORD: Parabola		PAGES:		WORD: Vertex of a Parabola		PAGES:	
DEFINITION: the shape of the graph of a quadratic function.				DEFINITION: the maximum or minimum point on the parabola.			
EXAMPLE(S):		COUNTEREXAMPLE(S):		EXAMPLE(S):		COUNTEREXAMPLE(S):	
WORD: Focus		PAGES:		WORD: Directrix		PAGES:	
DEFINITION: a fixed point used with a directrix to define a parabola.				DEFINITION: a fixed line used to define a parabola. Every points on a parabola is equidistant from the directrix and a fixed point called the focus.			
EXAMPLE(S):		COUNTEREXAMPLE(S):		EXAMPLE(S):		COUNTEREXAMPLE(S):	

WORD: Maximum Value of a Function		PAGES:		WORD: Minimum Value of a Function		PAGES:	
DEFINITION: the y-value of the highest point on the graph of a function.				DEFINITION: the y-value of the lowest point on the graph of a function.			
EXAMPLE(S):		COUNTEREXAMPLE(S):		EXAMPLE(S):		COUNTEREXAMPLE(S):	
WORD: Polynomial		PAGES:		WORD: Standard Form of a Quadratic Equation		PAGES:	
DEFINITION: an expression having two or more algebraic terms.				DEFINITION: $Ax^2 + BX + C = 0$, where A, B , and C are real numbers and $a \neq 0$.			
EXAMPLE(S):		COUNTEREXAMPLE(S):		EXAMPLE(S):		COUNTEREXAMPLE(S):	
WORD: Standard Form of a Polynomial		PAGES:		WORD: Standard Form of a Linear Equation		PAGES:	
DEFINITION: a polynomial when the terms are in order from greatest degree to least degree.				DEFINITION: $Ax + By = C$ where A, B , and C are real numbers and A and B are not both 0.			
EXAMPLE(S):		COUNTEREXAMPLE(S):		EXAMPLE(S):		COUNTEREXAMPLE(S):	

WORD: Solution Set		PAGES:		WORD: Zero of a Function		PAGES:	
DEFINITION: the set of values that make a statement true.				DEFINITION: for the function f, any number x such that $f(x) = 0$.			
EXAMPLE(S):		COUNTEREXAMPLE(S):		EXAMPLE(S):		COUNTEREXAMPLE(S):	
WORD: Vertex Form of a Quadratic		PAGES:		WORD: Discriminant		PAGES:	
DEFINITION: a quadratic function in the form $f(x) = a(x - h)^2 + k$.				DEFINITION: the discriminant of a quadratic equation $ax^2 + bx + c = 0$ is $b^2 - 4ac$; it tells how many real solutions the quadratic function will have.			
EXAMPLE(S):		COUNTEREXAMPLE(S):		EXAMPLE(S):		COUNTEREXAMPLE(S):	
WORD: Factoring		PAGES:		WORD: Completing the Square		PAGES:	
DEFINITION: the process of writing a number of algebraic expression as a product of factors.				DEFINITION: a process used to form a perfect-square trinomial. to complete the square of $x^2 + bx$ add $\left(\frac{b}{2}\right)^2$.			
EXAMPLE(S):		COUNTEREXAMPLE(S):		EXAMPLE(S):		COUNTEREXAMPLE(S):	