

**Quadratic Functions** 

G.N.A.W.

Name \_\_\_\_\_

Date \_\_\_\_\_ Period \_\_\_\_\_

Graphically Numerically			
Graph $y = f(x)$ on the grid below.	x f(x)		
	-5		
	-4		
	-3		
	-2		
	-1		
	0		
	1		
	2		
	3		
Algebraically	Verbally		
Given $f(x) = x^2 + 2x - 8$ , solve the quadratic	1. What is the domain of the function?		
equation by factoring to find the zeros of the function.	2. What is the range of the function?		
$x^2 + 2x - 8 = 0$			
	3. Find the following, if they exist:		
	A. The <i>y</i> -intercept		
	B. The <i>x</i> -intercept(s)		
	C. Maximum or minimum value		
	D. Axis of symmetry		

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Graphically	Numerically			
Graph $y = f(x)$ on the grid below.		x	f(x)	
$ \begin{array}{c}                                     $		-5	7	
		-4	0	
		-3	-5	
		-2	-8	
		-1	-9	
		0	-8	
		1	-5	
		2	0	
		3	7	
Algebraically	Verbally			
Given $f(x) = x^2 + 2x - 8$ , solve the quadratic equation by factoring to find the zeros of the function. $x^2 + 2x - 8 = 0$ $(x + 4)(x - 2) = 0$ $x = -4, x = 2$ $(x + 1)^2 - 9 = 0$	1. What is the domain of the function? $(-\infty, \infty)$ 2. What is the range of the function? $[-9, \infty)$ 3. Find the following, if they exist: A. The y-intercept (0, -8) B. The x-intercept(s) (-4,0)(2,0) C. Maximum or minimum value -9 is minimum value D. Axis of symmetry			