Algebra 1	
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FUNC.e

Name

Date

KEY

Period

FUNC.e.1

For each quadratic function -

(a) Clearly label features in the white space outside of the graph.

(b) Use an arrow to mark the vertex with a "V" and give its ordered pair; and (green)
(c) Use an arrow to mark the y-intercept with a "Y" and give its ordered pair. (porple)



Algebra 1	Name	K K	EY	ID: 1
FUNC.e		Date	e	Period
FFUNC.e.2 For each quadratic function, clearly (a) Identify the coefficients of the qu (b) Determine the direction of the pa (c) Identify the ordered pair for the	adratic function. rabola and explain y-intercept and exp	Label "A, B, C" . Label "SHAPI lain. Label "Y-I	E:" (pumple) NT:"(green)	
1) $f(x) = x^2 + 4x + 8$) A=1 B	=4 C=	8	
b) SHAPE:	opens u A is	positive	(A=1)
	YINT ;	(0,8)	because	C=8

1. . . 1. ¹.

Al	gebra 1	Name	KEY	ID: 1
F	UNC.e		Date	Period
G	UNC.e.3 raph the quadratic function in standard form nd vertex.	and identify the	y-intercept, axis of s	ymmetry,
Fo	or the following function:			
(a pr	a) Clearly graph at least 5 points and provide rovided below. Mark the vertex on the table.	the supporting ta	ble of values in the	space
(l gr	b) Give the ordered pair for the y-intercept: _ raph with a "Y".	(0,5)	If possible, mar	k it on the
(0 M	c) Calculate the axis of symmetry and give the lark it "AS" on the graph.		ation.	
		ORK HERE:		
	As: $X = -\frac{B}{2A} = \frac{8}{2(2)} = \frac{8}{4} = 3$			
(0	d) Give the ordered pair for the vertex	1,-3).1	Mark it "V" on the	graph.
1)	$f(x) = 2x^2 - 8x + 5$			
-		->(A = 2)	B = -8	C=5 LyINT (0,5)
		XX	mental u	serk.
γ(a	ASX=2	V 2 . 	-3 y= z(z) ² -] 5	

KEY Algebra 1 Name ID: 1 FUNC.e Date Period FUNC.e.4 Solve the quadratic function by graphing. For the following function: (a) Clearly graph at least 5 points and provide the supporting table of values in the space provided below. Mark the vertex on the table. (b) Give the ordered pair for the y-intercept: (0, -3). If possible, mark it on the graph with a "Y". (c) Calculate the axis of symmetry and give the appropriate equation. Mark it "AS" on the graph. **SHOW WORK HERE:** AS: $X = \frac{-B}{ZA} = \frac{-4}{2(-1)} = \frac{-4}{-2}$ X = 2(d) Give the ordered pair for the vertex ______. Mark it "V" on the graph. (e) Give the ordered pair(s) for the x-intercept(s) (1,0); (3,0) Mark them with X's on the graph. (f) Solve the quadratic function. The solutions are x = 11) $f(x) = -x^2 + 4x - 3$ B=4 C=-3 2 yint (A=-1(2) 0.5 6 x -0.5 -1.5 -2. O 2 ASX=2