10.1 Practice A

Date

#1

Graph the quadratic function in standard form and identify the y-intercept, axis of symmetry, and vertex.

(a) Identify A, B, and C.



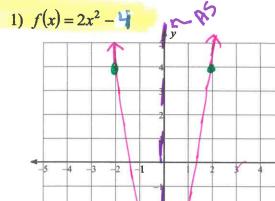
(b) Create a table with 5 points. Use the Domain -2,-1, 0, 1, 2. Mark the vertex on the table.

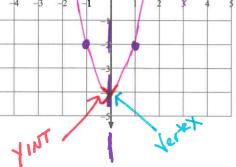
(c) What is the shape of the QF? Explain.

- (d) Give the ordered pair for the y-intercept: ______. Mark on the graph with "Y"
- (e) What is the equation of the axis of symmetry? Mark it "AS" on the graph.

$$AS \rightarrow X = 0$$

(f) Give the ordered pair for the vertex . Mark it "V" on the graph





10.2 Practice A

Date

FUNC.e.3

Graph the quadratic function in standard form and identify the y-intercept, axis of symmetry, and vertex.

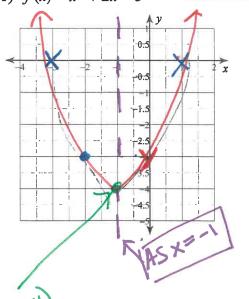
- (a) Clearly graph at least 5 points and provide the supporting table of values in the space provided below. Mark the vertex on the table.
- (b) Give the ordered pair for the y-intercept: ______. If possible, mark it on the graph with a "Y".
- (c) Calculate the axis of symmetry and give the appropriate equation. Mark it "AS" on the graph.

 AS $X = \frac{-B}{ZA} = \frac{-2}{Z(1)} = \frac{-2}{Z} = -1$ X = -1

 $y = (-1)^2 + 2(-1) - 3 = 1 - 2 - 3 = -4$

(d) Give the ordered pair for the vertex ______. Mark it "V" on the graph.

1) $f(x) = x^2 + 2x - 3$



B= 2

C= -3

1(-1,-4)

	X	7	_ /
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-	_2	-3 -	1
٧	-,4	-4	Metch
	0	-3 -	_
	-	0	1+7

Solution X = -3, 1

(cont.) Graph the quadratic function in standard form and identify the y-intercept, axis of symmetry, and vertex.

- (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,-4). 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.

As
$$x = \frac{8}{2(-1)} = \frac{8}{-4}$$
 $x = -2$

$$y = -2(-2)^2 - 8(-2) - 4 = -8 + 10$$

- $y = -2(-2)^{2} 8(-2) 4 = -8 + 16 4 = 4$ (d) Give the ordered pair for the vertex (-2, 4). Mark it "V" on the graph.
- 2) $f(x) = -2x^2 8x 4$





