

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.

$$A = 2$$

$$B = 0$$

$$C = -4$$

$$AS: x = 0$$

y-int

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

x	-2	-1	0	1	2
y	4	-2	-4	-2	4

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

OPENS UP b/c $A = +2$

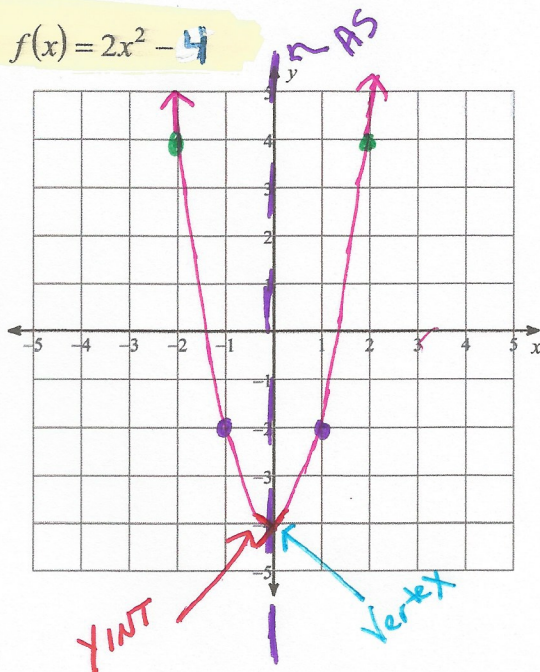
(d) Give the ordered pair for the y-intercept: $(0, -4)$. Mark on the graph with "Y"

(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 $\rightarrow (0, -4)$. Mark it "V" on the graph.

$$1) f(x) = 2x^2 - 4$$



#2

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

(a) Identify A, B, and C.

$A = -1$ $B = 0$ $C = 3$

AS $x=0$ ← y-int

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

x	-2	-1	0	1	2
y	-1	2	3	2	-1

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

opens down b/c $A = -1$

(d) Give the ordered pair for the y-intercept: (0, 3). 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 (0, 3). Mark it "V" on the graph.

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

