ID: 1

FUNC.e

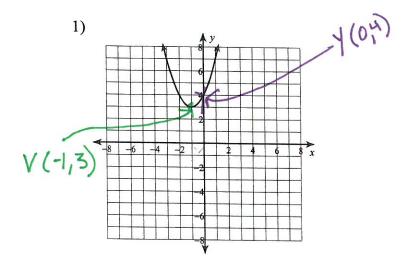
Date Period

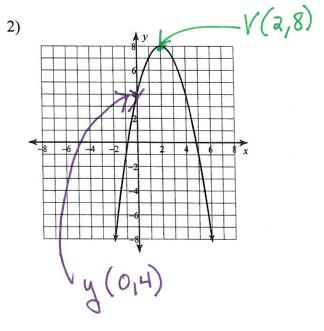
FUNC.e.1

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.





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FUNC.e

Date______Period_

FFUNC.e.2

For each quadratic function, clearly answer the following questions:

- (a) Identify the coefficients of the quadratic function. Label "A, B, C" (red)
- (b) Determine the direction of the parabola and explain. Label "SHAPE:" (ample)
 (c) Identify the ordered pair for the y-intercept and explain. Label "Y-INT:"

1)
$$f(x) = x^2 + 4x + 8$$

FUNC.e

Date Period

FUNC.e.3

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

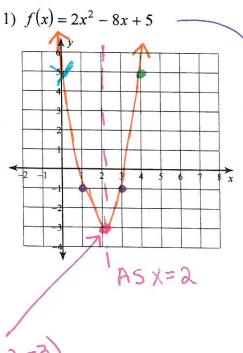
For the following function:

- (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: ______. 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:
$$X = -\frac{8}{zA} = \frac{8}{z(2)} = \frac{8}{4} = a$$
 $X = a$

(d) Give the ordered pair for the vertex (2,-3). Mark it "V" on the graph.



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:
$$X = \frac{-8}{ZA} = \frac{-4}{2(-1)} = \frac{-4}{-2}$$
 $X = 2$

- (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) (3,0) Mark them with X's on the graph.
- (f) Solve the quadratic function. The solutions are x = 1

