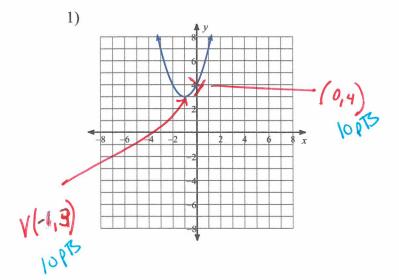
10.1 to 10.3 Quiz (combined with FUNC.c)

FUNC.e.1 (20 pts)

For each quadratic function - Clearly label features in the white space outside of the graph.

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



FUNC.e.2 (30 pts)

xName

For each quadratic function, clearly answer the following questions:

Date

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

2)
$$f(x) = -x^2 + 10$$
 a=-1, b=0, c=10

Opens DOWN b/c A=-1

Y-int (0,10) b/c C=10



FUNC.e.3 (16 pts/4pts each part)

- 5) 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:

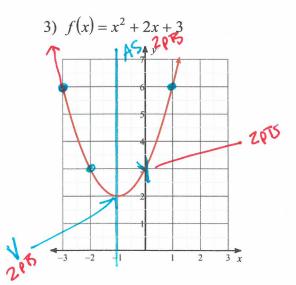
Mark it on the graph with a "Y".

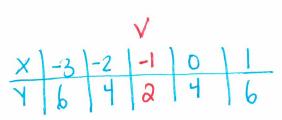
(c) Calculate the axis of symmetry below. What is the appropriate equation for A.S.:

Mark it "AS" on the graph.

(d) Give the ordered pair for the vertex

Mark it "V" on the graph.





FUNC.e.3 (16 pts/4pts each part)

- 5) 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.

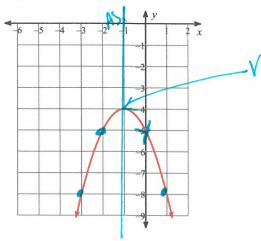
(b) Give the ordered pair for the v-intercept:

(c) Calculate the axis of symmetry below. What is the appropriate equation for A.S.:

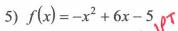
Mark it "AS" on the graph.

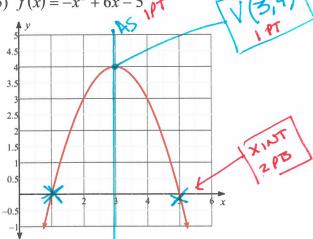
(d) Give the ordered pair for the vertex

4)
$$f(x) = -x^2 - 2x - 5$$

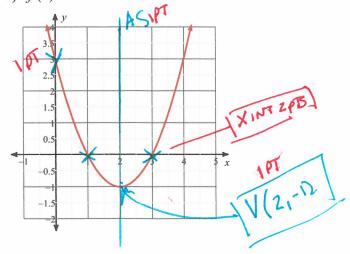


(a) Clearly graph at least 5 points and provide the supporting table of values in the space provided below. Mark the vertex on the table; (b) If possible, mark intercepts on graph with "x" an "y". (c) Mark the "AS" on the graph. (d) Circle the solutions are label x=___.





6)
$$f(x) = x^2 - 4x + 3$$







7) $f(x) = 2x^2 - 4x + 6$ (BONUS + 6)

