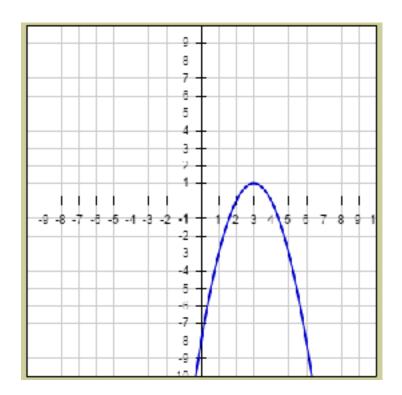
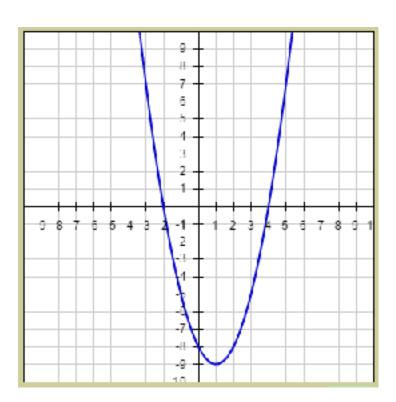
Score:	NAME:	

Assessment Training Practice #2B

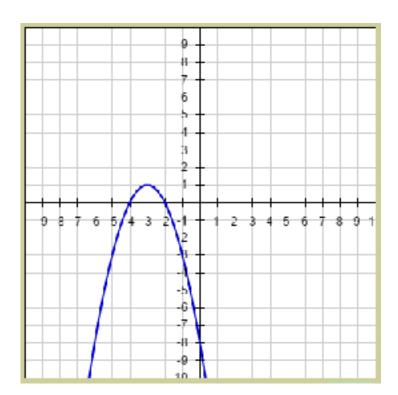
- 1.) Examine the quadratic function below. Label the graph with parts a g.
- a.) Find the y-intercept
- b.) What are the different names for the x-intercepts?
- c.) Find the x-intercept(s) _____
- d.) Identify the vertex _____
- e.) Is the vertex a maximum or a minimum? Why?
- f.) Write the equation of the axis of symmetry _____
- g.) Write an equation for this quadratic function (a = 1 or a = -1)



- 2.) Examine the quadratic function below. Label the graph with parts a f.
- a.) Find the y-intercept
- b.) Find the x-intercept(s)/Zero(s)/ root(s)/ solution(s)
- c.) Identify the vertex _____
- d.) Is the vertex a maximum or a minimum? Why? _____
- e.) Write the equation of the axis of symmetry _____
- f.) Write an equation for this quadratic function (a = 1 or a = -1)



- a.) Find the y-intercept
- b.) Find the x-intercept(s)/Zero(s)/ root(s)/ solution(s)
- c.) Identify the vertex _____
- d.) Is the vertex a maximum or a minimum? Why? _____
- e.) Write the equation of the axis of symmetry _____
- f.) Write an equation for this quadratic function (a = 1 or a = -1)



- 4.) Examine the quadratic function below. Label the graph with parts a f.
- a.) Find the y-intercept _____

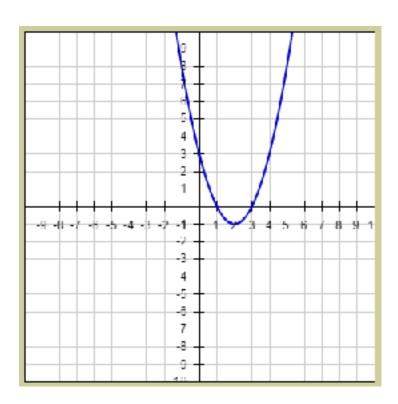
b.) Find the x-intercept(s)/Zero(s)/ root(s)/ solution(s)

c.) Identify the vertex _____

d.) Is the vertex a maximum or a minimum? Why?

e.) Write the equation of the axis of symmetry _____

f.) Write an equation for this quadratic function (a = 1 or a = -1)

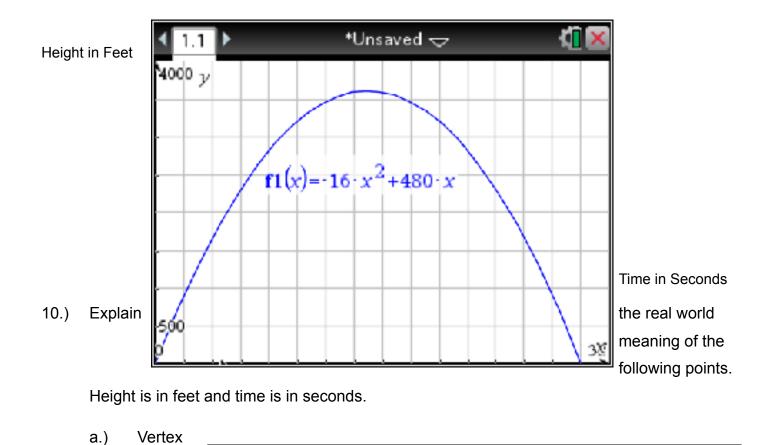


Factor each expression for 5 - 8.

5.) $4x^4 + 8x^3 - 6x^2$

6.)	3s ² - 3s - 48
7.)	16y ² - 36
8.)	18g ² - 21g - 4
9.) a.)	Explain what can be determined by looking at each form of a quadratic function. Standard form $y = ax^2 + bx + c$
b.)	Factored form $y = a(x - p)(x - q)$
c.)	Vertex form $y = a(x - h)^2 + k$

The following is a graph of the path of a rocket after it is launched.



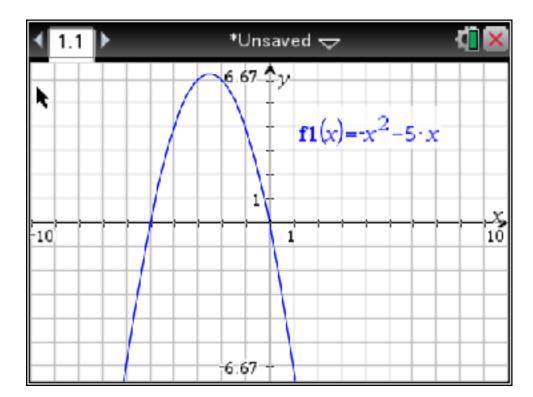
x-intercept(s)____

11.) What does the x represent in the function?

b.)

- 12a.) How long does it take for the rocket to reach the ground?
- 12b.) What is the fall time of the rocket?

13.) Examine the function below.

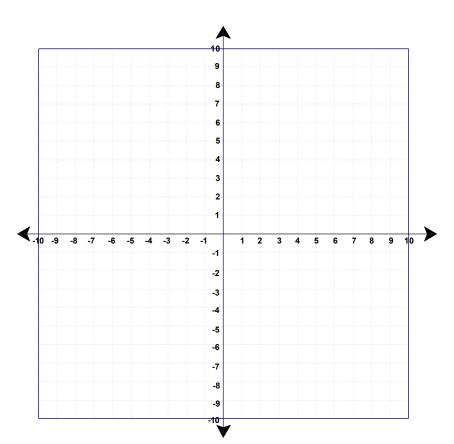




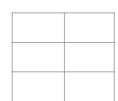
- 13.) What point is missing from the table?
- 14a.) How can you find the vertex of this graph?

14b.) Find the vertex. Show your work.

- 15.) Explain why you could not see the vertex in the table.
- 16.) Graph the function: f(x) = (x 4)(x + 2)



x	у



_____ Plot the parabola correctly.

Label the coordinates of the vertex on the graph.

If necessary, use the formula.

Label the coordinates of the y-intercept on the graph.

Show the Axis of Symmetry

Write the equation of the Axis of Symmetry.

Label the zeros on the graph.

If necessary, use the quadratic formula.

17.) Graph the function: $f(x) = \frac{1}{3}(x - 1)^2 - 4$

x	у



_____ Plot the parabola correctly.

Label the coordinates of the vertex on the graph.

If necessary, use the formula.

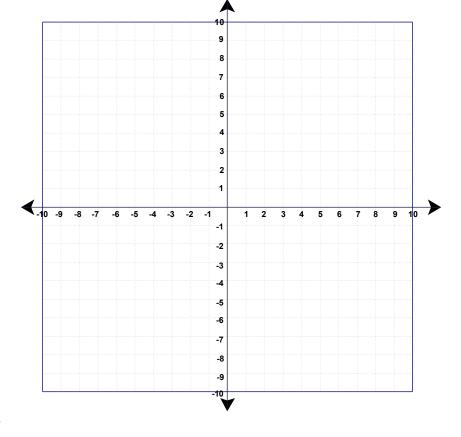
_____ Label the coordinates of the y-intercept on the graph.

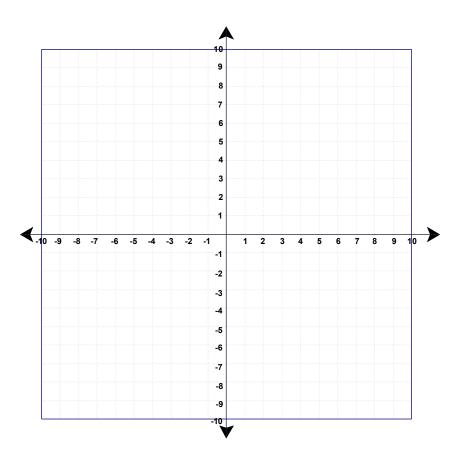
Show the Axis of Symmetry

_____ Write the equation of the Axis of Symmetry.

_____ Label the roots on the graph.

If necessary, use the quadratic formula.





X	у

 Plot the parabola correctly.
 Label the coordinates of the vertex on the graph
If necessary, use the formula.

 Label the coordinates of the y-intercept on the graph.
 Show the Axis of Symmetry
 Write the equation of the Axis of Symmetry.
 Label the solutions on the graph.
If necessary, use the quadratic formula.