A. Set a window to match the axes shown and graph the quadratic function on your calculator:



- 1. My estimate the x-value for the vertex is _____.
 - Use your calculator to find the maximum of this function, rounded to nearest hundredth if necessary.
 - What are the coordinate of the vertex?
 - What is the equation for the axis of symmetry?
 - What is the range?
- 2. My estimate for the smallest of the x-intercepts is _____.
 - Use your calculator to find the smallest zero of this function (rounded to the nearest tenth).
- 3. My estimate for the largest of the x-intercepts is _____.
 - Use your calculator to find the largest zero of this function (rounded to the nearest tenth).
- 4. My estimate for the y-intercept is _____.
 - Use your calculator to find the y-intercept (rounded to the nearest tenth).

B. Graph a second function: $y_2 = -3$ OR $f_2(x) = -3$



- a. Find the two x-values where the two functions "Intersect"
 - i. Smallest x-value, rounded to nearest tenth: _____
 - ii. Largest x-value, rounded to nearest tenth: _____
- C. Use the data to find and equation and graph a quadratic function:Window to match the given grid.

c =

Regression Information:

a = b = equation:

Х	У
-7	-7
-6	0
-5	5
-4	8
-3	9
-2	8
-1	5
0	0
1	-7

