GRAPHING CALCULATOR FEATURES

1. Press [Y=] and enter the function in $Y_1=$. Press [GRAPH]
2. You may have to adjust the size of the graph until the vertex and intercepts are visible. Press [WINDOW] and change Xmin, Xmax, Ymin and Ymax as necessary and press [GRAPH]

[WINDOW] FEATURES

IF YOU DON'T GET A CLEAR PARABOLIC U SHAPE ON GRAPH
If you need to see more of the right side of the graph:
Press [WINDOW] – increase Xmax
If you need to see more of the left side of the graph:
Press [WINDOW] – decrease Xmin
If you need to see more of the top of the graph:
Press [WINDOW] – increase Ymax
If you need to see more of the bottom of the graph:
Press [WINDOW] – decrease Ymin

[ZOOM] FEATURES

NORMAL SETTING
Most graphs will fit on a -10 to 10 grid, therefore, to set your windows to that setting - Press [ZOOM] 6.

NO GRAPH APPEARS
There will be times you don't see a graph. Press [ZOOM] 0. You may have to set windows to see a nice parabolic shape.

ZOOM IN ON A PARTICULAR AREA OF THE GRAPH
If you aren't sure if the graph is touching the x axis. Press [ZOOM] 1.
Create a box by selecting a starting point on graph by moving cursor to that point, then Press [ENTER]. Move cursor right/left & up/down, then Press [ENTER]

TO SKETCH A GRAPH OF A PARABOLA

Type the function in Y_1 = , Press [GRAPH] , then Press [2nd] [GRAPH]
This take you to a table of values. Take points from both sides of the
vertex so that when you sketch the graph it gives you a good parabolic
shape [Use your up and down arrows].

GETTING INFORMATION FROM YOUR GRAPHS

➤ y-intercept
   Press [TRACE] [0] [ENTER]
➤ x-intercept ➡ must have Y_2 = 0
   Press [GRAPH] , then [2nd] [TRACE] 5, drag cursor to point of x-int.,
   and then [ENTER] 3 times. Repeat same steps for other x-int.
➤ Vertex
   First determine if the parabola is a Max. or Min.
   Press [2nd] [TRACE] 4 (maximum) move the cursor to the left side
   of the maximum and press [ENTER] then move the cursor to the
   right side of the maximum and press [ENTER]
➤ Finding a y value when x # is given
   Press [TRACE] x # [ENTER]
➤ Finding a x value when y # is given
   Type the y # given in Y2, then Press [2nd] [TRACE] 5
   Make sure the cursor is at the point of intersection, and then
   press [ENTER] three times.