Graphing Quadratic Function ---- Parabolas

I will ask for at least five points:

- The Vertex
- Two points on either side of the vertex

Properties that will help you graph:

• Line of Symmetry

y-intercept

Equation for the LOS: Using a Quadratic in Standard Form: $y = ax^2 + bx + c$ $LOS: x = \frac{-b}{2a}$ Find the vertex and plot this point: (x, y) same value evalute the equation as LOS evalute the equation

Find and plot the y-intercept (if it fits): Using a Quadratic in Standard Form: $y = ax^2 + bx + c$

the y-intercept is ${\sf C}$

If equation isn't in Standard Form, find the y-intercept by making x=0 and finding the value of y

Find the remainder of the Five points by

using a table of values and their reflections over the LOS







1 right and 1 up from the vertex

