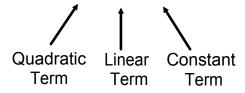
6-1 Graphing Quadratic Functions

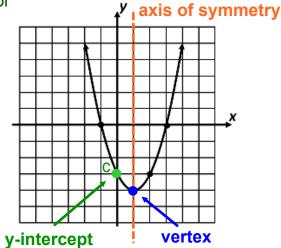
Objective: Graph quadratic functions.

Find and interpret the maximum and minimum values of quadratic functions.

** Use Graphing Calculator**







*

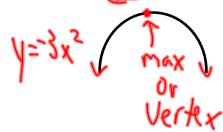
Axis of symmetry : $x = \frac{-b}{2a}$



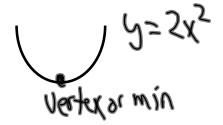
Vertex: x coordinate is $\frac{-b}{2a}$

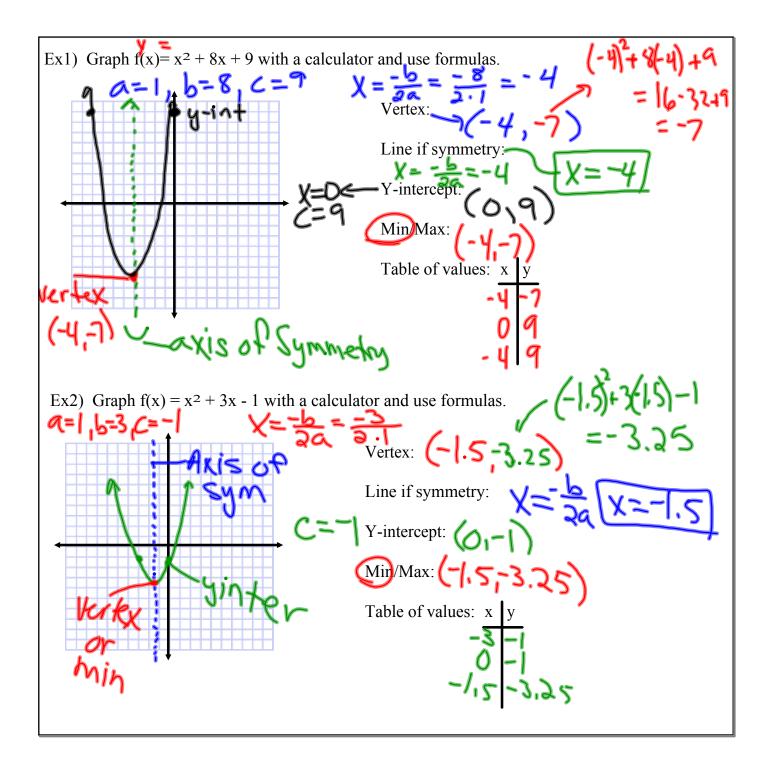
Y-intercept is when x = 0, so $a(0)^2 + b(0) + c$, is just c

Max: opens down and a is negative



Min: opensup and a is positive





** Do #14 from the Homework

14.
$$y = 2x^2$$

Cine of Sym: X=0

C=0/int: (0,0)

Minmax: min (0, 3)

Table: X/y