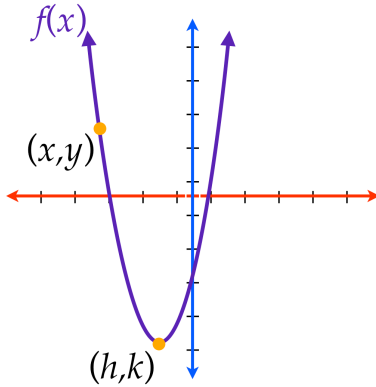
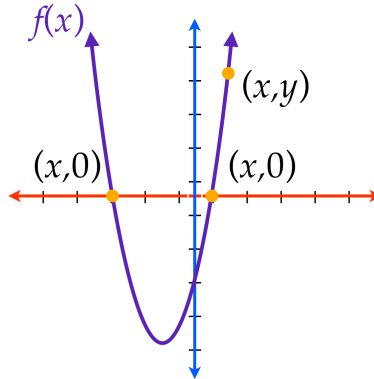


Writing Quadratic Equations

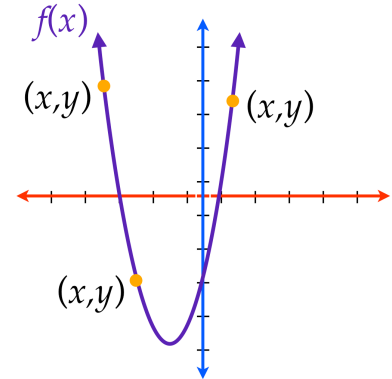
Vertex and
(x,y) Point



Two x -intercepts
and (x,y) Point



Three Random
(x,y) Points



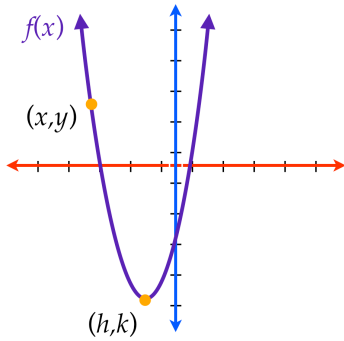
Find quadratic function with vertex (h,k) at $(3,1)$ and (x,y) point $(1,9)$.

Find the quadratic function with x -intercepts at 1 and -2 with point (-1,-6).

Write a quadratic equation that goes through the points (0,5), (2,1), and (1,2).

Writing Quadratic Equations

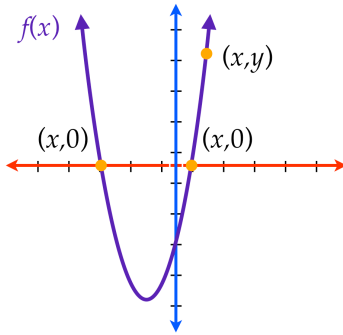
Vertex and
(x,y) Point



Vertex Form

$$y = a(x - h)^2 + k$$

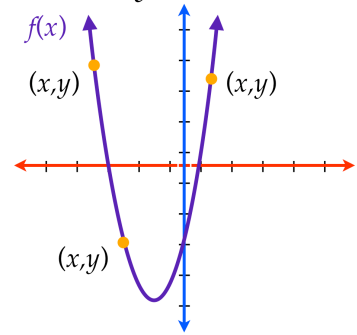
Two x-intercepts
and (x,y) Point



Intercept Form

$$y = a(x - p)(x - q)$$

Three Random
(x,y) Points



Solve System of 3 Equations
with 3 Variables