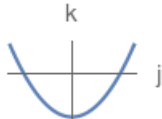


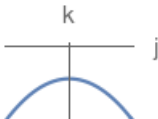
Plotting the Parabola

How to plot : $k(j) = aj^2 + bj + c$

Step 1.

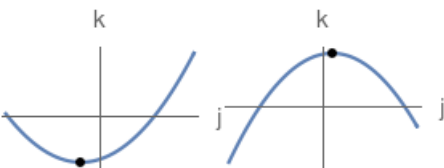
Examine the sign for the leading coefficient

If $a > 0$ then the valley shape: 

If $a < 0$ then the hill shape: 

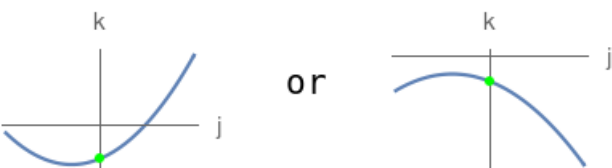
Step 2.

Compute the vertex: $(-\frac{b}{2a}, k(-\frac{b}{2a}))$



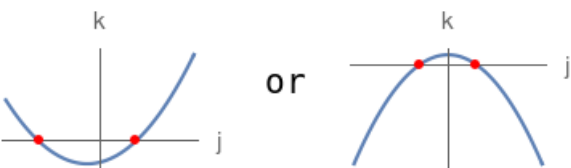
Step 3.

Compute the k-intercept by setting $j=0$, $0^2a + 0b + c = c$



Step 4.

Compute the j-intercepts by solving: $aj^2 + bj + c = 0$



Step 5.

Sketch a rough plot, try to connect vertex to intercepts: