Plotting the Parabola How to plot: $h(j) = a j^2 + b j + c$

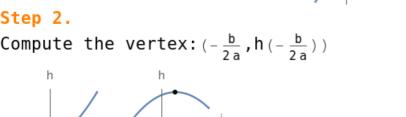
Step 1.

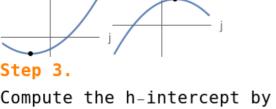
Examine the sign for the leading coefficent

If
$$a > 0$$
 then the valley shape:

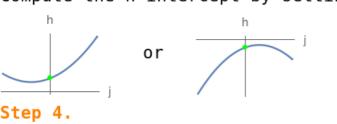
If a < 0 then the hill shape:

a < 0 then the hill shape:
$$\frac{a}{a} = \frac{b}{2a}$$
 mpute the vertex: $(-\frac{b}{2a}, h(-\frac{b}{2a}))$

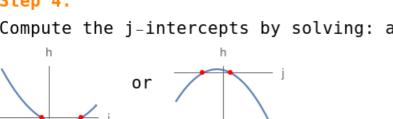




Compute the h-intercept by setting j=0, 0^2 a + 0 b + c=c



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



Step 5.