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

Examine the sign for the leading coefficent

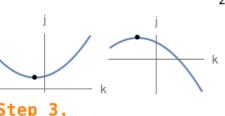
If a > 0 then the valley shape:

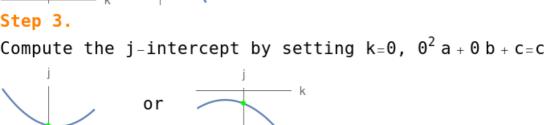
If a < 0 then the hill shape:

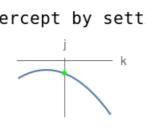
Step 2.

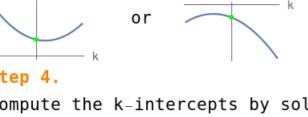
Compute the vertex:
$$(-\frac{b}{a}, i(-\frac{b}{a}))$$

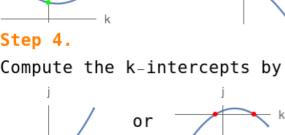
Compute the vertex:
$$(-\frac{b}{2a}, j(-\frac{b}{2a}))$$

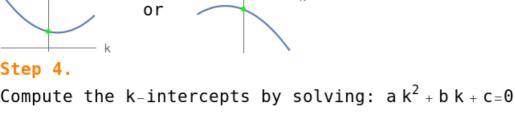












Step 5.