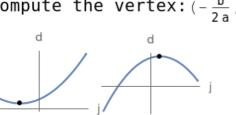
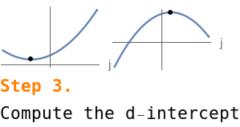
Plotting the Parabola How to plot : $d(j) = a j^2 + b j + c$

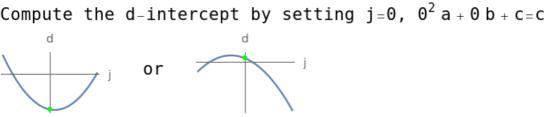
Step 1. Examine the sign for the leading coefficent

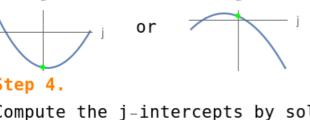
If a > 0 then the valley shape:

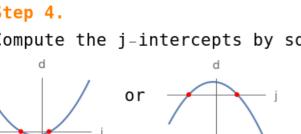
Step 2. Compute the vertex:
$$(-\frac{b}{2a}, d(-\frac{b}{2a}))$$

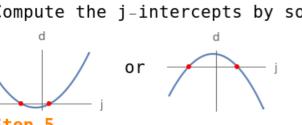


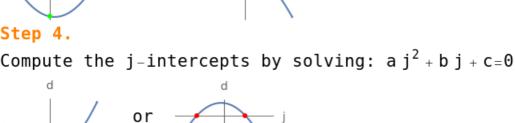












Step 5. Sketch a rough plot, try to connect vertex to intercepts: