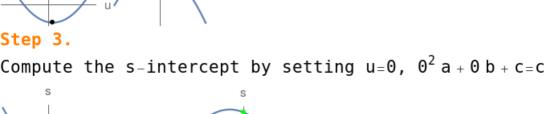
Plotting the Parabola How to plot : $s(u) = a u^2 + b u + c$

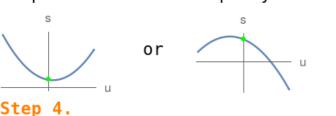
Examine the sign for the leading coefficent

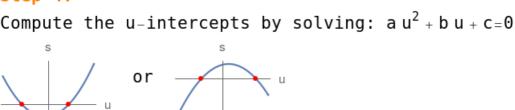
If a
$$>$$
 0 then the valley shape: \setminus

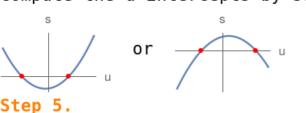
If a < 0 then the hill shape:

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









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

