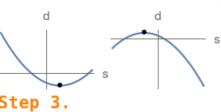
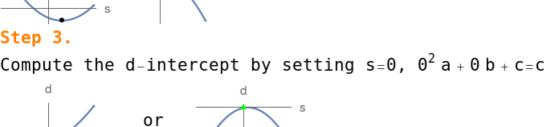
## Plotting the Parabola **How to plot** : $d(s) = a s^2 + b s + c$

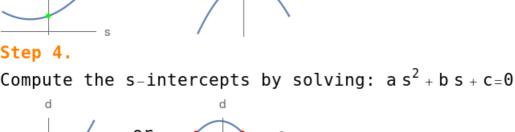
Examine the sign for the leading coefficent

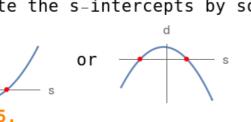
If a > 0 then the valley shape:

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









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