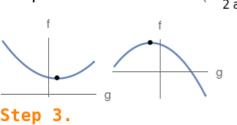
## Plotting the Parabola How to plot : $f(g) = a g^2 + b g + c$

Step 1.

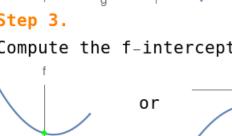
Examine the sign for the leading coefficent

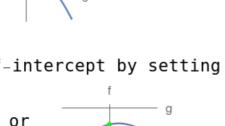
If a > 0 then the valley shape:

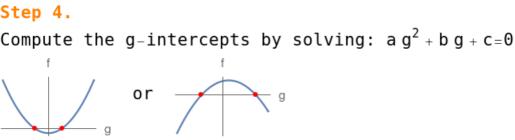
Step 2. Compute the vertex: 
$$(-\frac{b}{2a}, f(-\frac{b}{2a}))$$

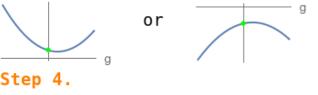


Compute the f-intercept by setting g=0,  $0^2 a + 0 b + c = c$ 









Step 5.