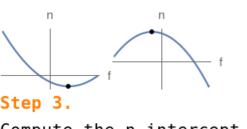
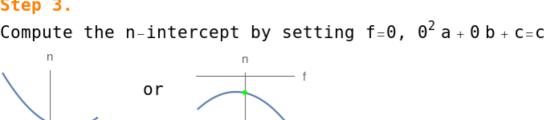
## **Plotting the Parabola** How to plot: $n(f) = a f^2 + b f + c$

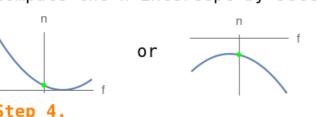
Step 1.

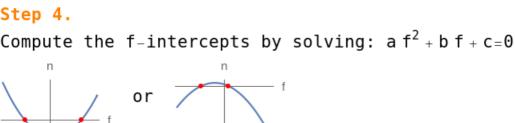
If a > 0 then the valley shape:

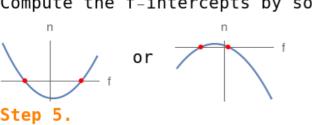
Step 2. Compute the vertex: 
$$(-\frac{b}{2a}, n(-\frac{b}{2a}))$$











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

