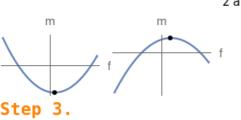
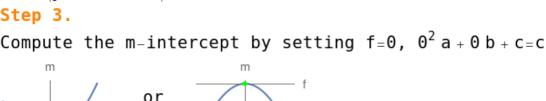
## **Plotting the Parabola** How to plot: $m(f) = a f^2 + b f + c$

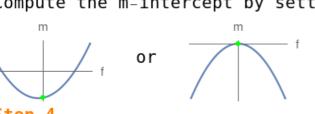
Step 1.

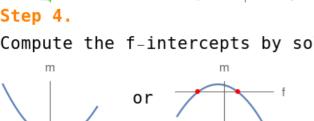
If a > 0 then the valley shape:

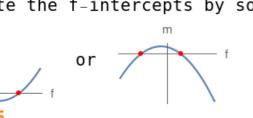
Compute the vertex: 
$$(-\frac{b}{2a}, m(-\frac{b}{2a}))$$













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

