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

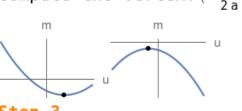
Examine the sign for the leading coefficent

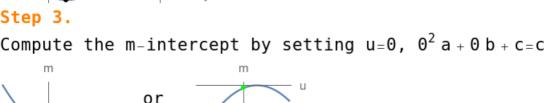
If a > 0 then the valley shape:

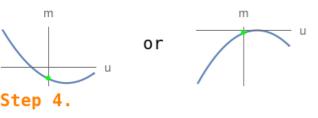
If a < 0 then the hill shape:

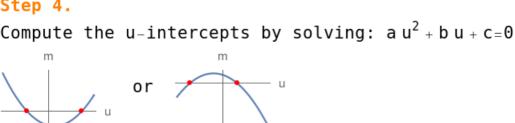


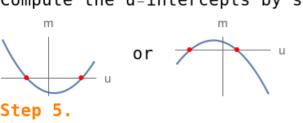
Step 2. Compute the vertex: $(-\frac{b}{2a}, m(-\frac{b}{2a}))$











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

