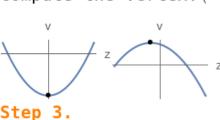
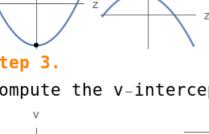
Plotting the Parabola How to plot : $V(z) = az^2 + bz + c$

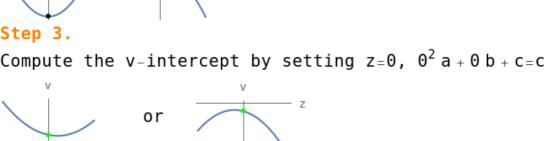
Examine the sign for the leading coefficent

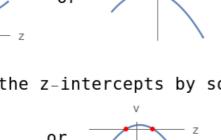
If a > 0 then the valley shape:

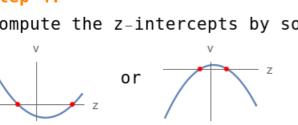
Step 2. Compute the vertex:
$$(-\frac{b}{2a}, V(-\frac{b}{2a}))$$

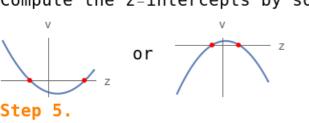


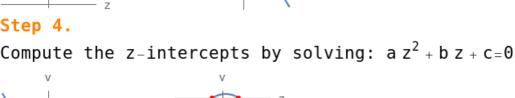












Sketch a rough plot, try to connect vertex to intercepts:

