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

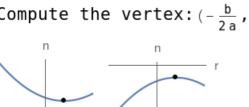
Step 1.

Examine the sign for the leading coefficent

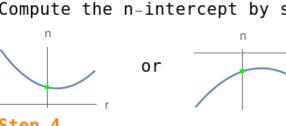
If a > 0 then the valley shape:

If a < 0 then the hill shape:

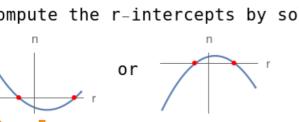
Step 2. Compute the vertex: $(-\frac{b}{2a}, n(-\frac{b}{2a}))$



Step 3. Compute the n-intercept by setting r=0, 0^2 a + 0 b + c=c



Step 4. Compute the r-intercepts by solving: $ar^2 + br + c=0$



Step 5.

