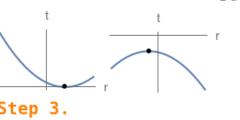
## Plotting the Parabola How to plot: $t(r) = a r^2 + b r + c$

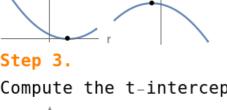
Step 1.

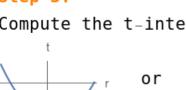
If a > 0 then the valley shape:

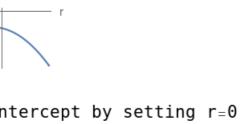
If a < 0 then the hill shape: Step 2.

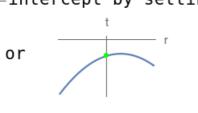
Step 2. Compute the vertex: 
$$(-\frac{b}{2a}, t(-\frac{b}{2a}))$$

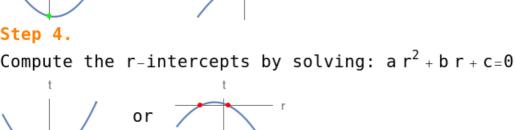


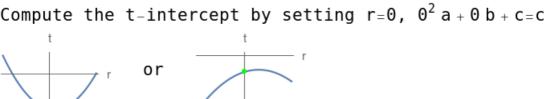


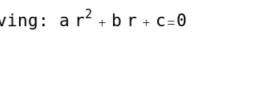


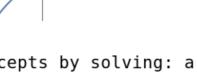












## Step 5. Sketch a rough plot, try to connect vertex to intercepts: