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

Step 1.

If a > 0 then the valley shape:

If a < 0 then the hill shape:

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

Step 2.

Step 3.

Step 4.

Step 5.

Examine the sign for the leading coefficent

Compute the x-intercept by setting h=0, θ^2 a + θ b + c=c

Compute the h-intercepts by solving: $ah^2 + bh + c=0$

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