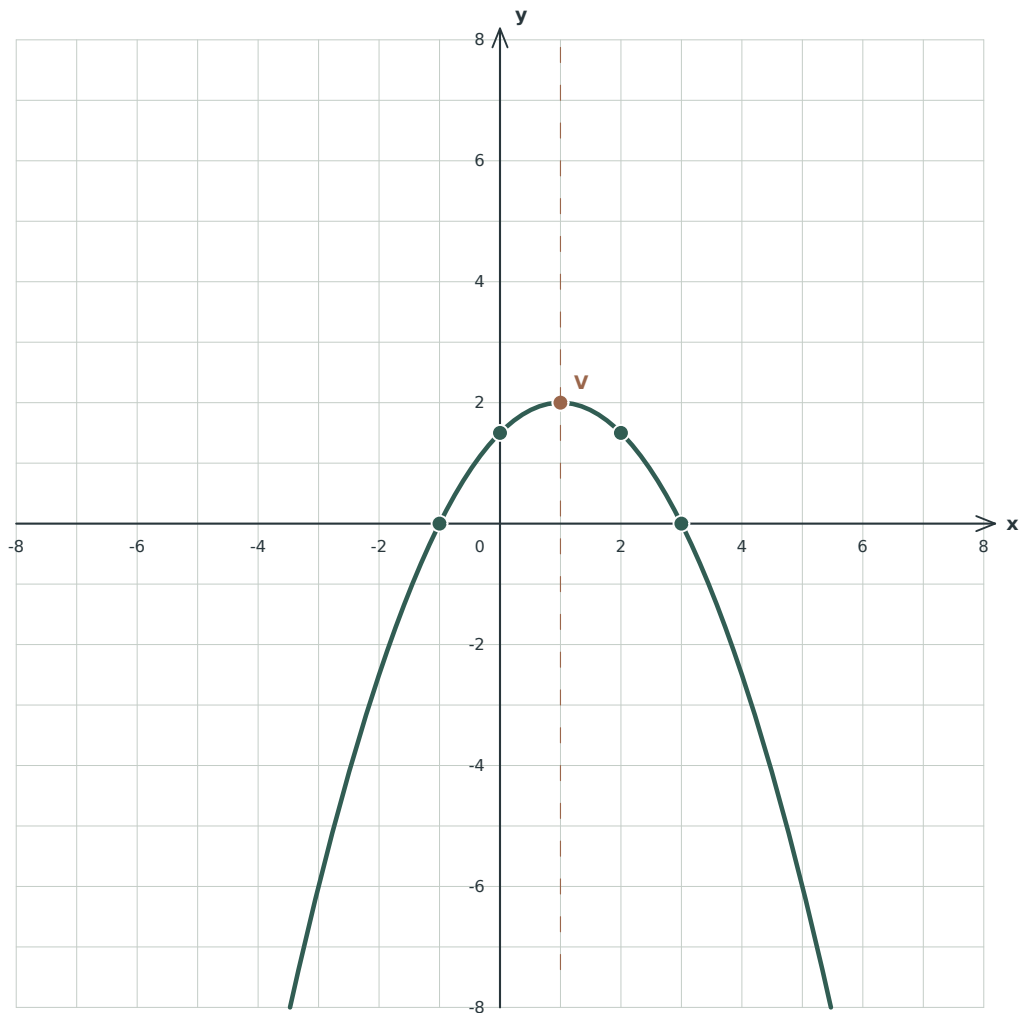


A wider downward parabola

Use the vertex and a five-point table to sketch a smooth parabola. The plotted curve is not a chain of straight chords.

$y = -1/2(x - 1)^2 + 2$. Table x values: -1, 0, 1, 2, 3. Every interval is 1 unit.



1. Locate the vertex and symmetry line. Vertex (1,2); symmetry line $x=1$.
2. Calculate and plot the five table points. (-1,0); (0,3/2); (1,2); (2,3/2); (3,0)
3. State direction and vertex type. Opens down; vertex is a maximum.

Original practice data / coordinate units, not ruler measurements / physical printing not tested