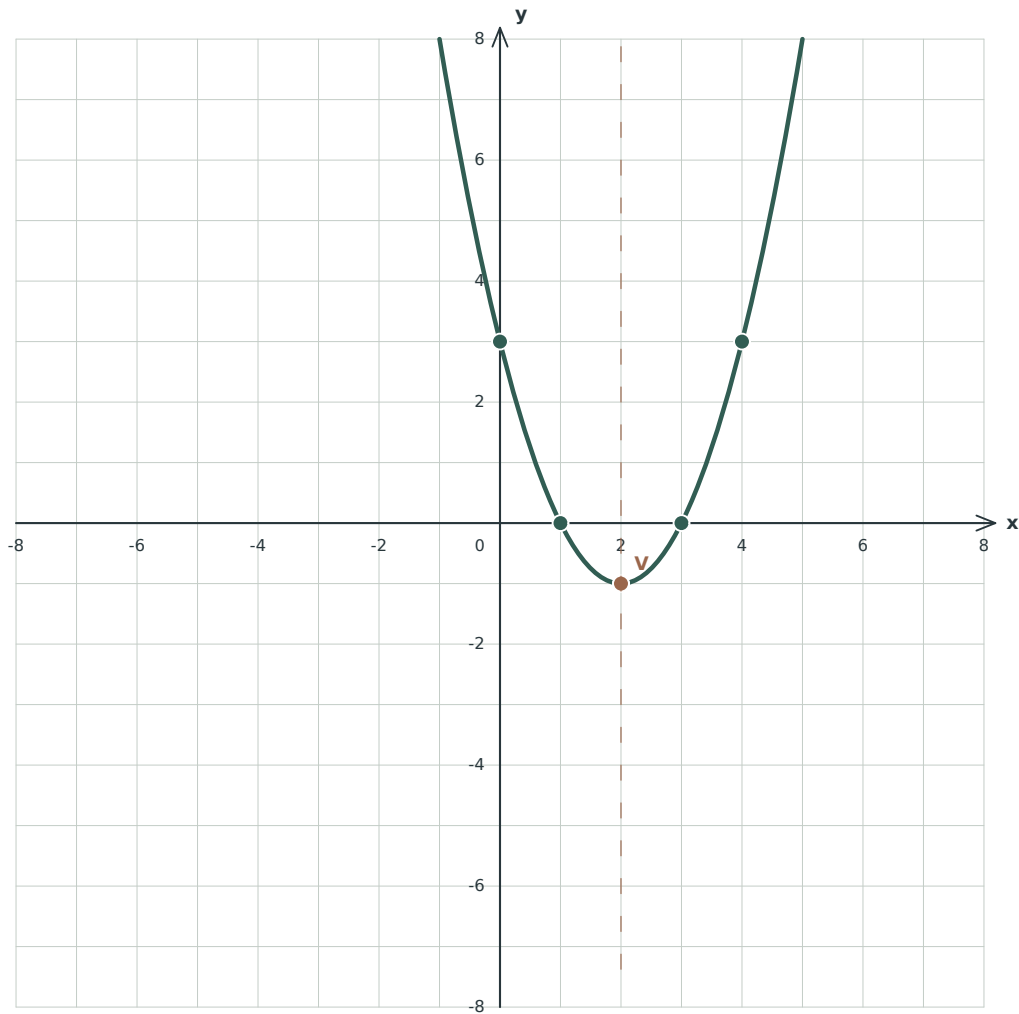


A shifted vertex

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

$y = 1(x - 2)^2 + (-1)$. Table x values: 0, 1, 2, 3, 4. Every interval is 1 unit.



1. Locate the vertex and symmetry line. Vertex (2,-1); symmetry line $x=2$.
2. Calculate and plot the five table points. (0,3); (1,0); (2,-1); (3,0); (4,3)
3. State direction and vertex type. Opens up; vertex is a minimum.