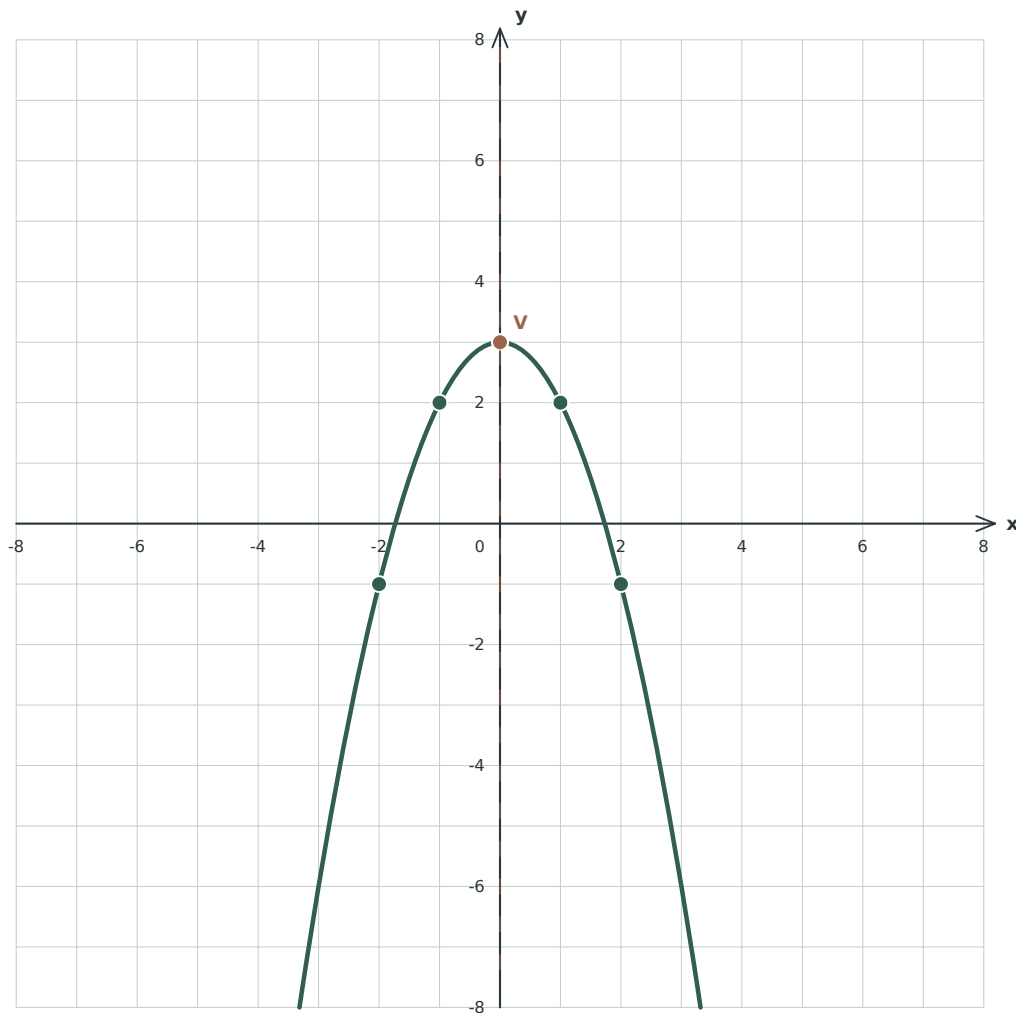


A downward parabola

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

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



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

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