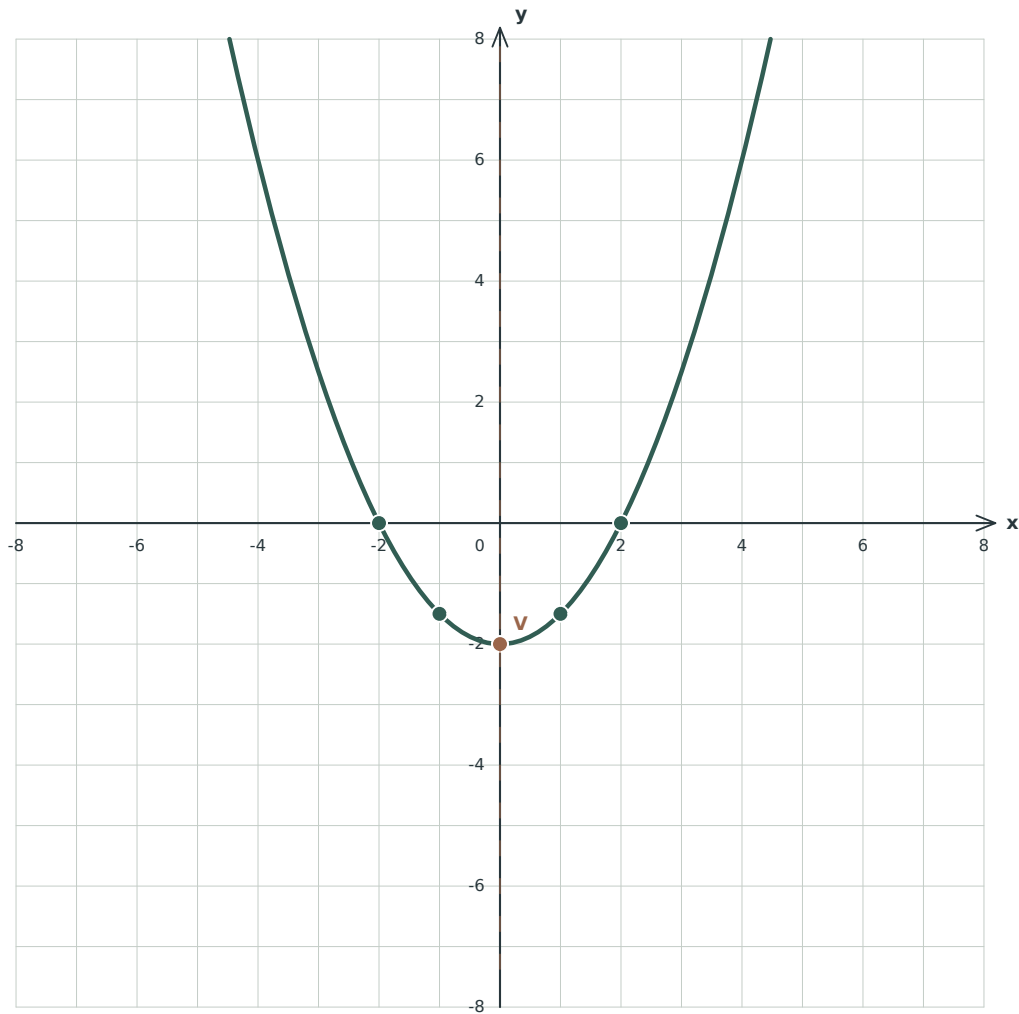


A wider upward parabola

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

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



1. Locate the vertex and symmetry line. Compare the completed plot.
2. Calculate and plot the five table points. Compare the completed plot.
3. State direction and vertex type. Compare the completed plot.