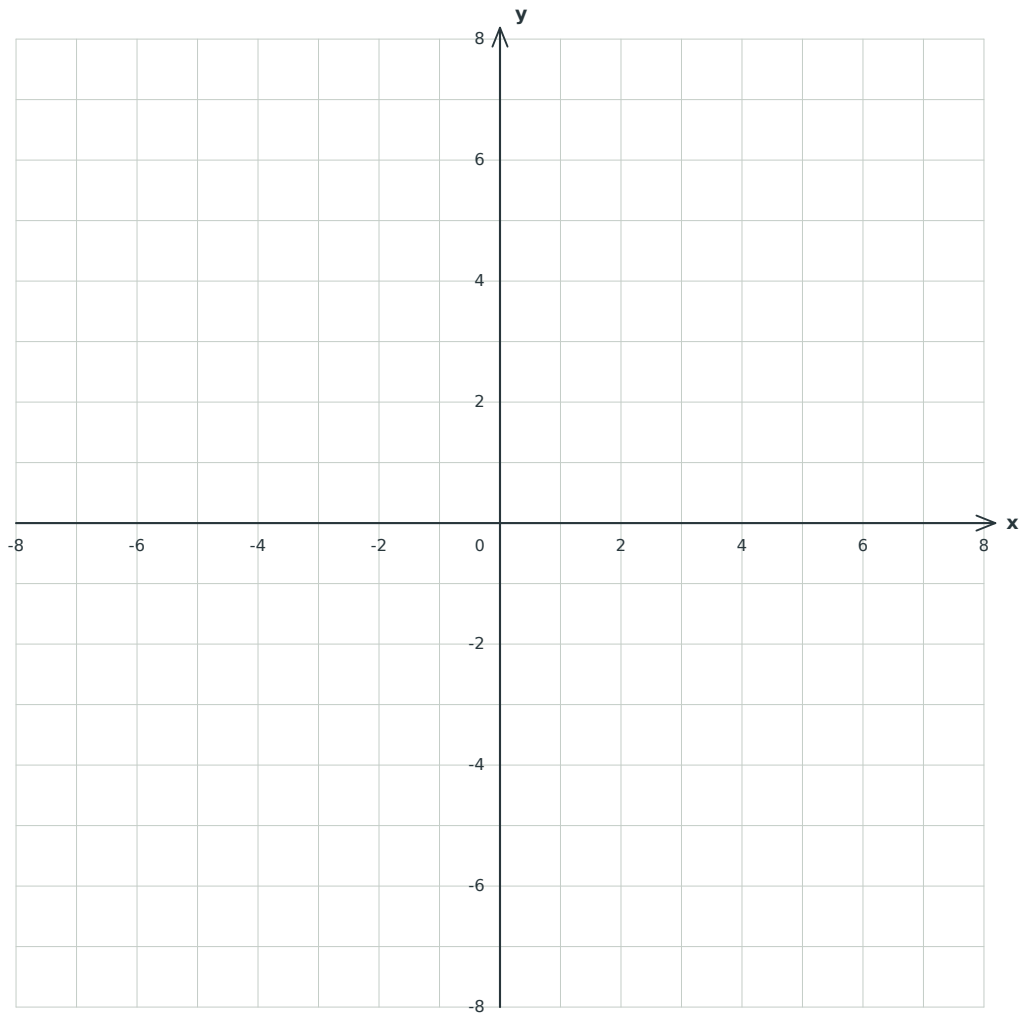


A wider upward parabola

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. _____
2. Calculate and plot the five table points. _____
3. State direction and vertex type. _____