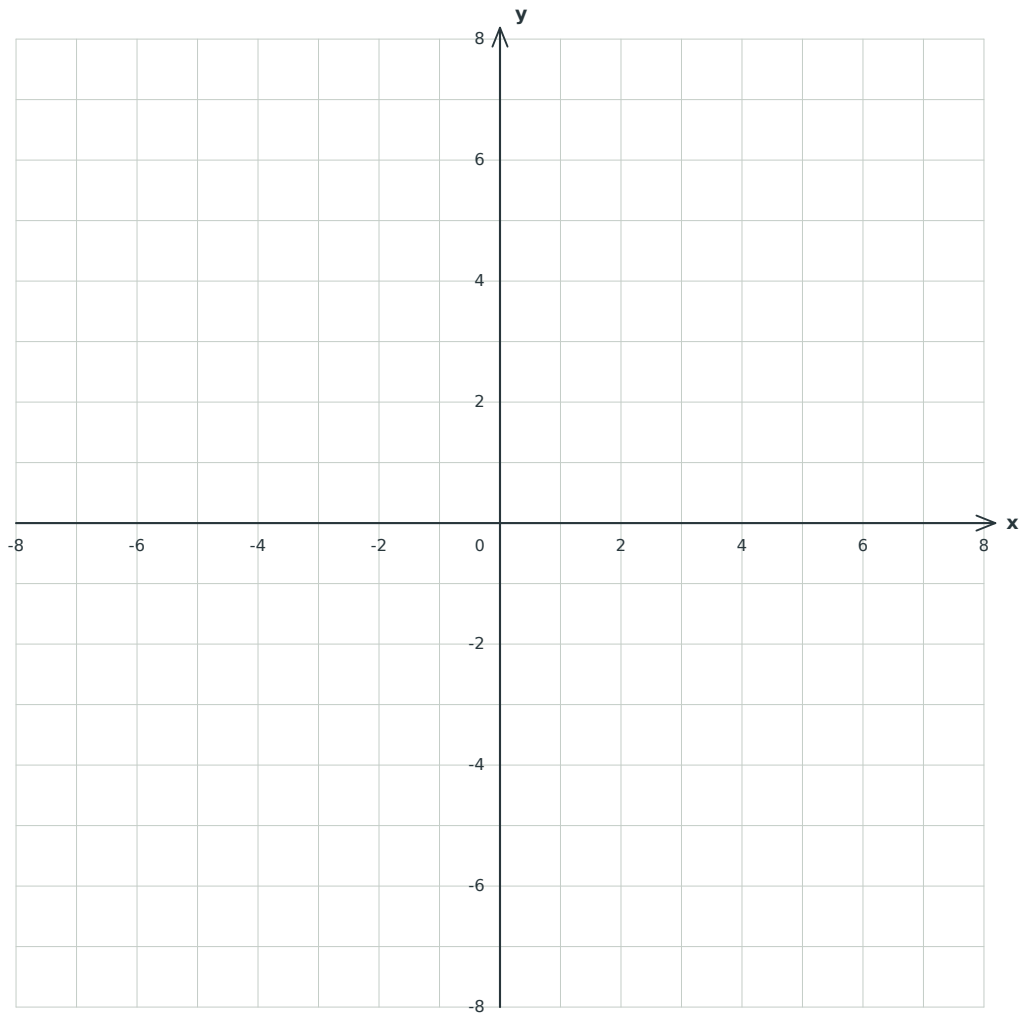


An upward parabola

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

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

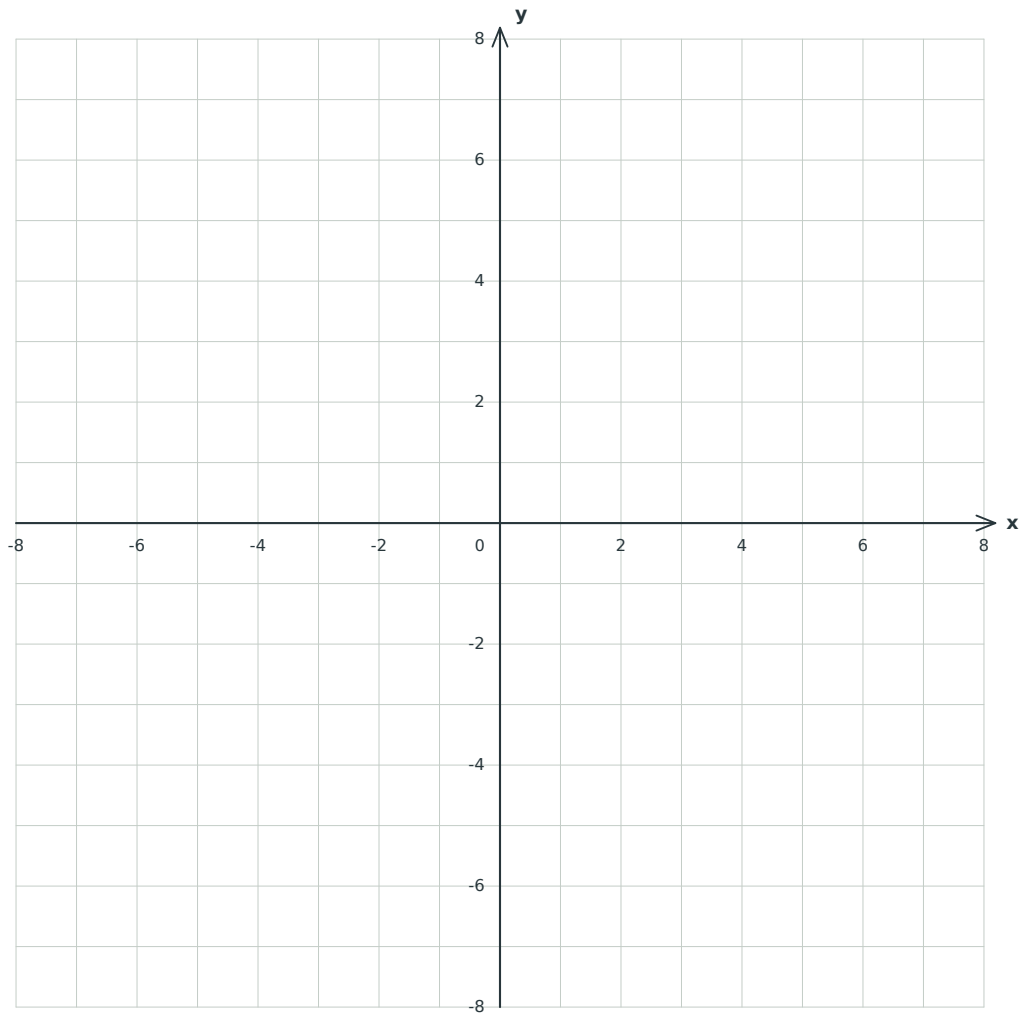


1. Locate the vertex and symmetry line. _____
2. Calculate and plot the five table points. _____
3. State direction and vertex type. _____

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.

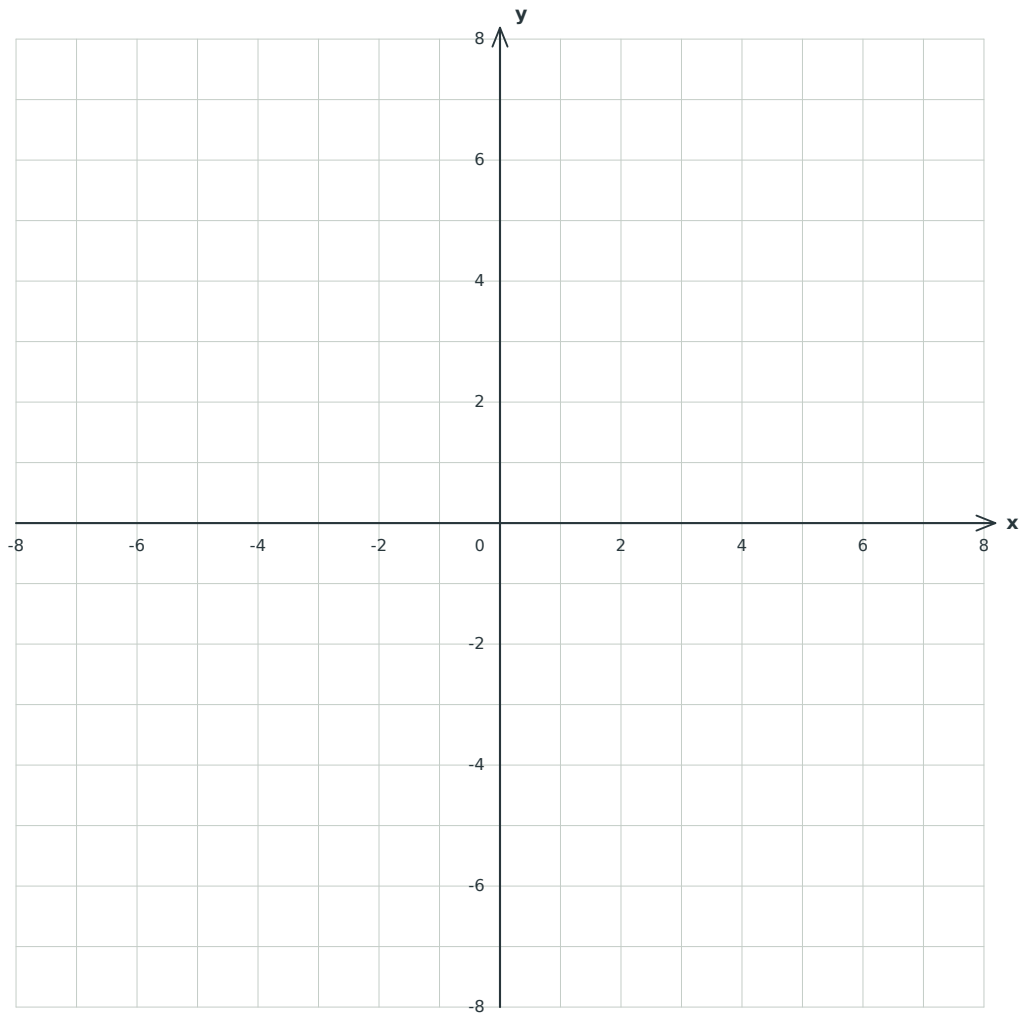


1. Locate the vertex and symmetry line. _____
2. Calculate and plot the five table points. _____
3. State direction and vertex type. _____

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.

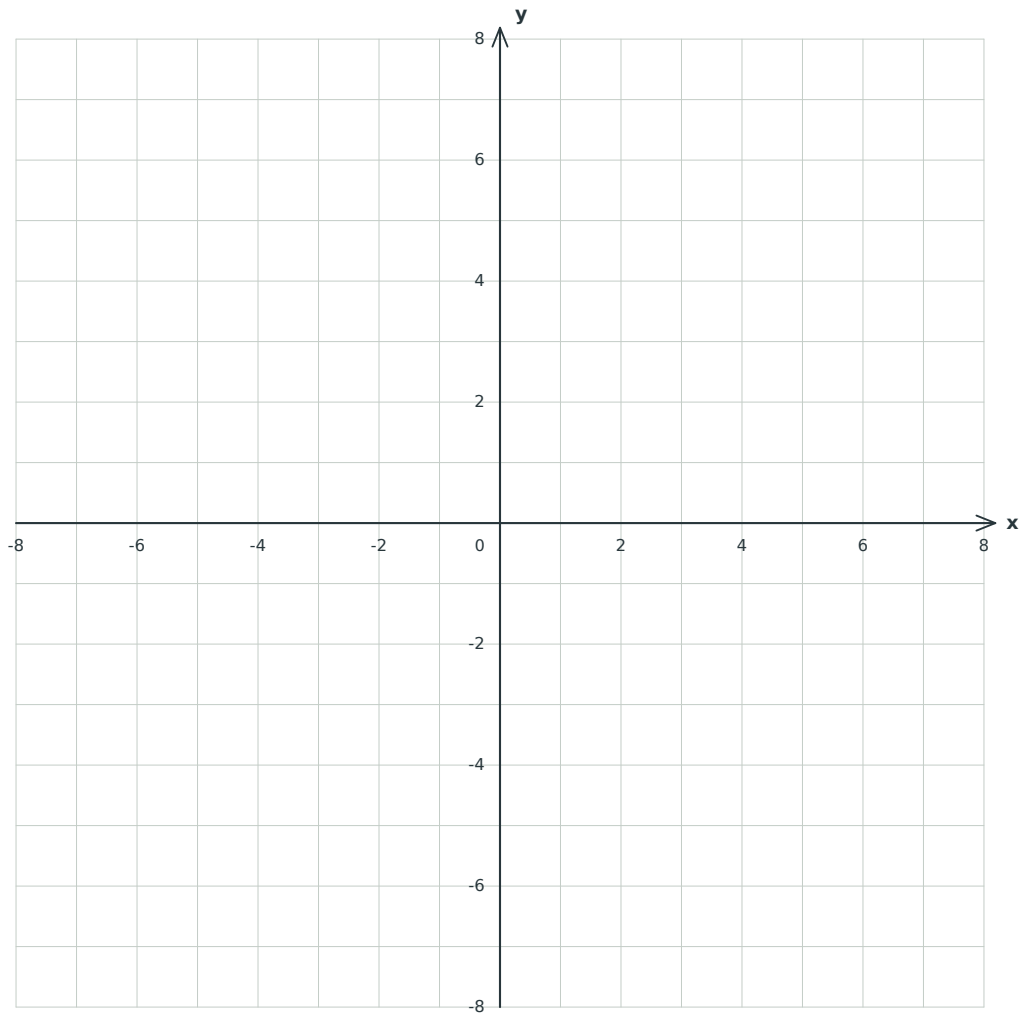


1. Locate the vertex and symmetry line. _____
2. Calculate and plot the five table points. _____
3. State direction and vertex type. _____

A left and upward shift

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

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

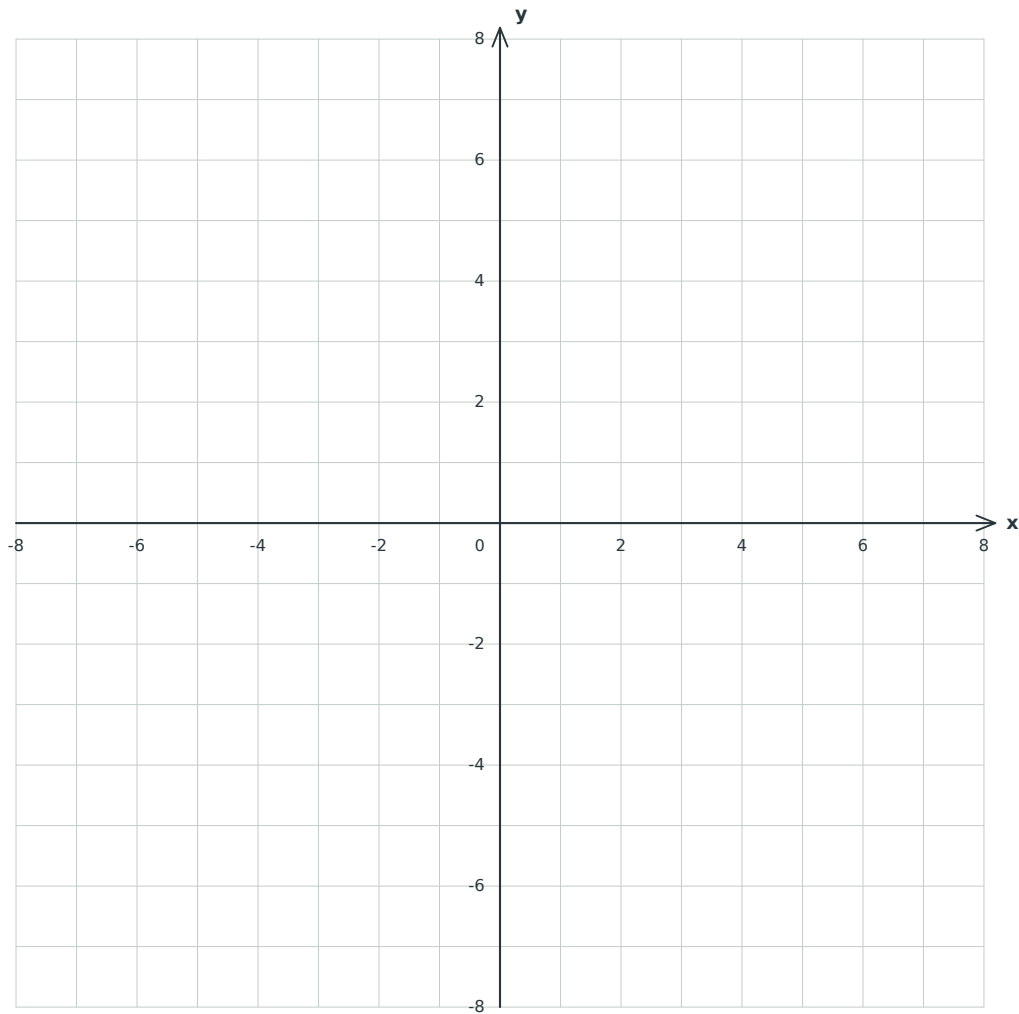


1. Locate the vertex and symmetry line. _____
2. Calculate and plot the five table points. _____
3. State direction and vertex type. _____

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.

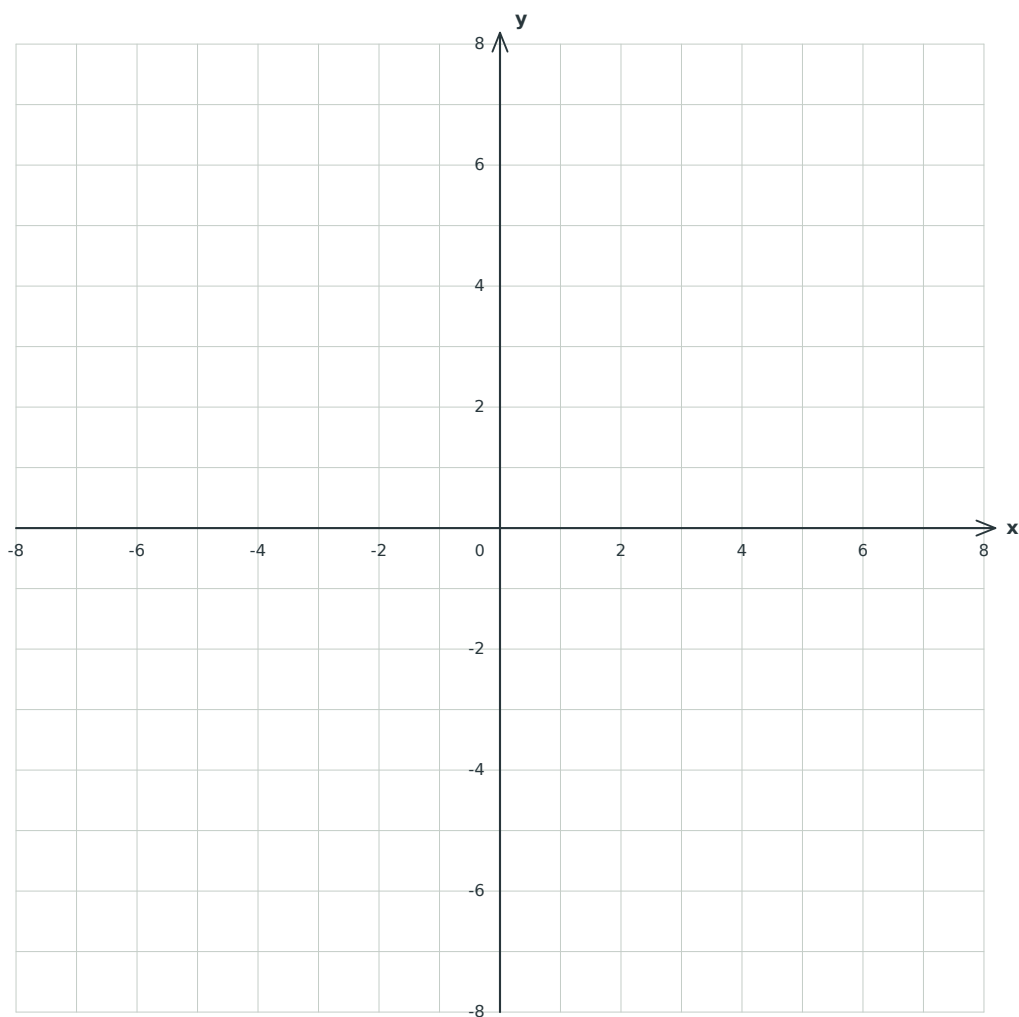


1. Locate the vertex and symmetry line. _____
2. Calculate and plot the five table points. _____
3. State direction and vertex type. _____

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