

Exercise 40

Graph the functions in Exercises 37–56.

$$y = |1 - x| - 1$$

Solution

Rewrite the function.

$$y = |-(x - 1)| - 1$$

$$y = |x - 1| - 1$$

The parent function is $y = |x|$. Replacing x with $x - 1$ shifts the graph to the right by 1 unit, and subtracting 1 shifts the graph down by 1 unit.

