Exercise 28

For the following exercises, sketch a graph of the function as a transformation of the graph of one of the toolkit functions.

$$h(x) = |x - 1| + 4$$

Solution

The parent function is

$$|x|.$$

Replacing x with $x - 1$ shifts the graph to the right by 1 unit.

$$|x - 1|$$

Adding 4 to it shifts the graph up by 4 units.

$$|x - 1| + 4$$