Exercise 13

For the following exercises, graph the functions by translating, stretching, and/or compressing a toolkit function.

$$f(x) = \sqrt{x+6} - 1$$

Solution

Start with the parent function.

 \sqrt{x}

Replacing x with x + 6 shifts the graph to the left by 6 units.

 $\sqrt{x+6}$

Subtracting 1 shifts the graph down by 1 unit.

$$\sqrt{x+6}-1$$

