## 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.

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



