

## Exercise 14

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

$$f(x) = \frac{1}{x+2} - 1$$

### Solution

Start with the parent function.

$$\frac{1}{x}$$

Replacing  $x$  with  $x + 2$  shifts the graph to the left by 2 units.

$$\frac{1}{x+2}$$

Subtracting 1 shifts the graph down by 1 unit.

$$\frac{1}{x+2} - 1$$

