

## Exercise 91

For the following exercises, use the graph of  $f(x) = \sqrt{x}$  to graph each transformed function  $g$ .

$$g(x) = -\sqrt{x} - 1$$

### Solution

Because of the  $-1$  multiplying the square root, the entire graph of  $f(x) = \sqrt{x}$  is reflected over the  $x$ -axis. And because of the  $-1$  outside the square root, the entire graph of  $f(x) = \sqrt{x}$  is shifted down by 1 unit.

