## Exercise 64

For the following exercises, write a formula for the function g that results when the graph of a given toolkit function is transformed as described.

The graph of  $f(x) = \sqrt{x}$  is reflected over the x-axis and horizontally stretched by a factor of 2.

## Solution

To reflect the graph of f(x) over the x-axis, place a minus sign in front of the square root function. Then to horizontally stretch by a factor of 2, replace x with (1/2)x.

