## Exercise 70

In Exercises 69-76, graph each function not by plotting points, but by starting with the graph of one of the standard functions presented in Figures 1.14-1.17 and applying an appropriate transformation.

$$
y=\sqrt{1-\frac{x}{2}}
$$

## Solution

The parent function is $y=\sqrt{x}$.


Replacing $x$ with $1+x$ shifts the graph to the left by 1 unit.


Replacing $x$ with $-x$ reflects the graph over the $y$-axis.


Replacing $x$ with $\frac{1}{2} x$ stretches the graph horizontally by a factor of 2 .


