

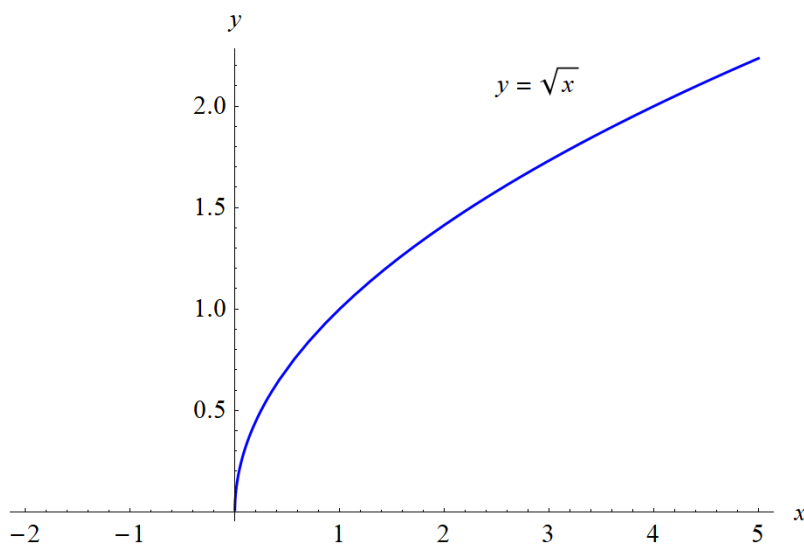
Exercise 23

Graph the function by hand, not by plotting points, but by starting with the graph of one of the standard functions given in Section 1.2, and then applying the appropriate transformations.

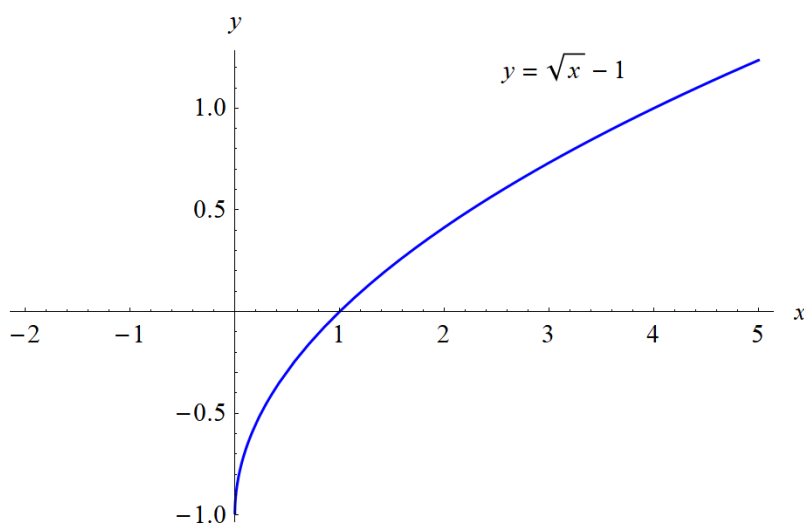
$$y = |\sqrt{x} - 1|$$

Solution

The graph of $y = \sqrt{x}$ is shown below.



Subtracting 1 from this function shifts the graph down by 1 unit.



Enclosing this function in an absolute value sign reflects the parts of the graph under the x -axis over it.

