

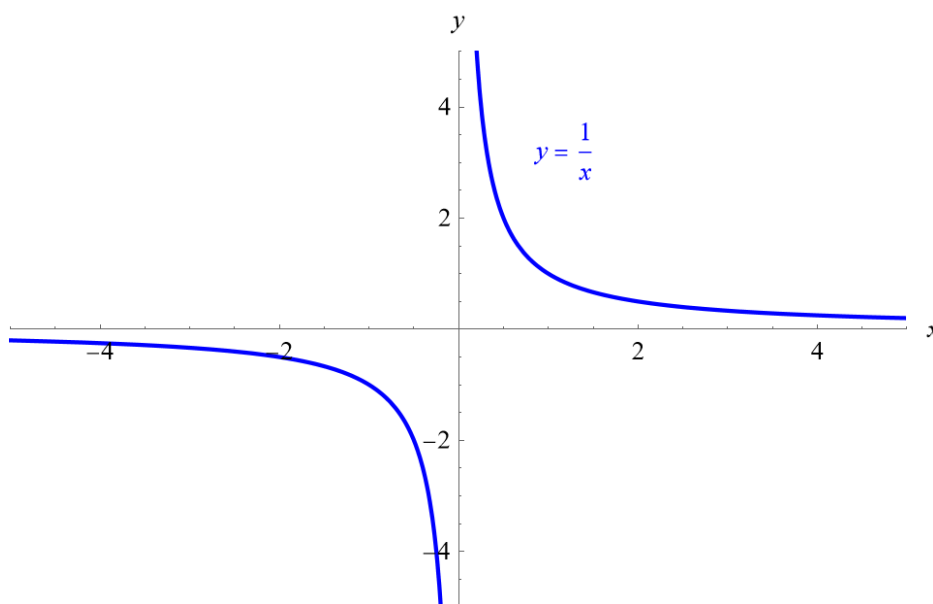
### Exercise 73

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.

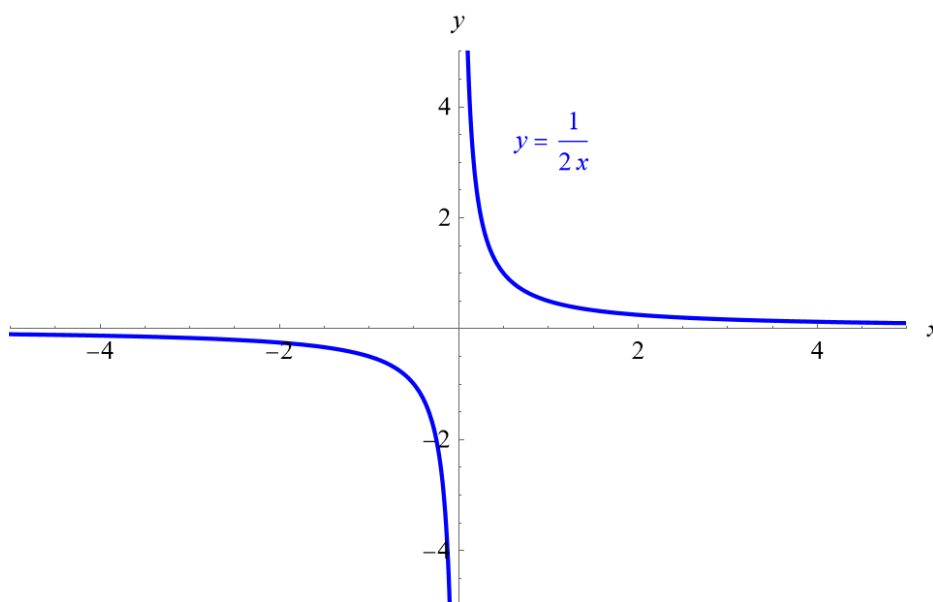
$$y = \frac{1}{2x} - 1$$

#### Solution

The parent function is  $y = 1/x$ .



Replacing  $x$  with  $2x$  compresses the graph horizontally by a factor of 2.



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

