

Exercise 18

Sketch the graph of f by hand and use your sketch to find the absolute and local maximum and minimum values of f . (Use the graphs and transformations of Sections 1.2 and 1.3.)

$$f(x) = 1/x, \quad 1 < x < 3$$

Solution

A graph of the function is shown below. Since the interval $1 < x < 3$ is open, the function has no maximum and no minimum.

