## Exercise 17

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.)

$$
f(x)=1 / x, \quad x \geq 1
$$

## Solution

On the interval $1 \leq x<\infty$ there's only an absolute maximum:

$$
f(1)=\frac{1}{1}=1 \text {. }
$$

This is illustrated in the graph of the function below.


