## Exercise 16

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.)

$$
f(x)=2-\frac{1}{3} x, \quad x \geq-2
$$

## Solution

On the interval $-2 \leq x<\infty$ there's only an absolute maximum:

$$
f(-2)=2-\frac{1}{3}(-2)=\frac{8}{3} \approx 2.667 .
$$

This is illustrated in the graph of the function below.


