

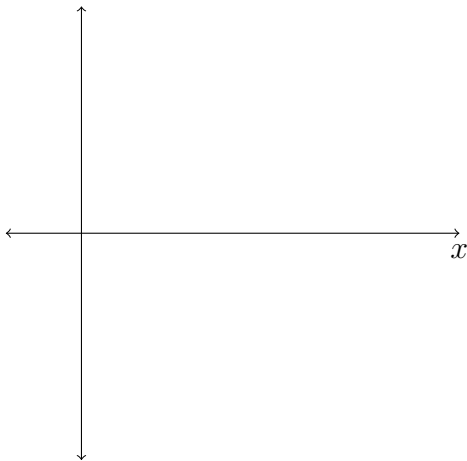
Let $f(x) = x - 4 \ln(x)$

1. Find the intervals of increase and decrease.

2. Find the minimum value.

3. Draw a nice picture

$$y = x - 4 \ln(x)$$



4. Suppose the **derivative** of a function f is $f'(x) = (x + 1)^2(x - 2)$

(a) What are the critical points of f ?

(b) Over what interval(s) is the function increasing and decreasing?

(c) Where are the relative maxima or minima of f ?