

This is a simple example to start with L^AT_EX. A mathematical formula can appear in the running text and on a separate line, as the following example shows: Define the function $f : (0, \infty) \rightarrow \mathbb{R}$ by

$$f(x) = \frac{\ln x}{x^2}$$

then

$$\lim_{x \rightarrow \infty} f(x) = 0$$