

Name:
Department:

Grade: /10

Math 101, Calculus I, Fall 2023, Sec. 1, HTK
Quiz 6, Fri., Dec. 8

1. (a) Find the absolute maximum value of $f(x) = \frac{\ln x}{x}$.

(b) Using part (a), decide which of e^π and π^e is larger.

2. Evaluate $\lim_{x \rightarrow 0^+} \frac{e^{-1/x}}{x}$.

Evaluate $\lim_{x \rightarrow \infty} (xe^{1/x} - x)$.