Name: _____

MATH 111-I

Spring 2025

Quiz 10

Problem 1: Write the following in the form $x^{a/b}$ for some a, b:

(a) $\dfrac{1}{\sqrt{x}} =$

(b) $\sqrt[3]{x^5} =$

Problem 2: Compute the following:

(a) $\log_6(1) =$

(b) $\log_3\left(\dfrac{1}{27}\right) =$

(c) $\log_2(32) =$

(d) $\log_7(7) =$

(e) $\log_4\left(\dfrac{1}{4}\right) =$

(f) $\ln(e^4) =$

(g) $\log_\pi(\pi^6) =$

(h) $\log_{64}(8) =$