

Math 101 (Term 172) – Quiz 4

Student Name _____ Student ID: _____

Exercise 1 [3 points]

Let $f(x) = x^{1/3} - x^{-2/3}$. Find the critical numbers of f .

Exercise 2 [3 points]

Let $f(x) = x^2 \ln x$. Find the inflection points of f .

Exercise 3 [4 points]

Find $\lim_{x \rightarrow 0^+} (2 - \cos 4x)^{\cot x} =$