King Fahd University of Petroleum and Minerals
Department of Mathematics and Statistics
Math 101 (121) - Quiz 6

Name: ID: Serial No.:

1. Use l'Hoptial's rule to find the limit

$$\lim_{x\to\infty} \left(\frac{x+2}{x-1}\right)^x$$

2. Consider the function

$$g(x) = \frac{5}{x^4 + 5}$$

(a) Find the local extreme values.

(b) Find the inflection points (if any).