Term 172

King Fahd University for Petroleum and Minerals Department of Mathematics & Statistics

Math 101 (15)

Quiz#6 (4.2, 4.3, 4.4 and 4.5)

Family Name:

S.r#

Q1. Find:

i.
$$\lim_{x \to \infty} \left(x - \ln(3e^x + 1) \right)$$

ii.
$$\lim_{x\to 1} x^{1/(1-x)}$$

Q2. Sketch $f(x) = \sqrt[3]{x^3 - 1}$, (**Show the following characteristics:** intersections, increasing/decreasing, Local Extremes, concavity, and inflection points)

