

King Fahd University of Petroleum & Minerals
Department of Mathematics and Statistics
(Semester 181) Math 101 Quiz # 5

Name: _____ I.D. # _____ Sr. # _____

Consider the function $f(x) = 2x + 3x^{2/3}$,

1. Find, if any, all asymptotes.
2. Find the relative extrema, if any exist, and where f is increasing or decreasing.
3. Find inflection points, if any exist, and where f is concave up or down.
4. Sketch the graph of $f(x)$ clearly indicating all important points and concavity.