King Fahd University of Petroleum and Minerals Department of Mathematics and Statistics Math 101 (131) - Quiz 1

Name:

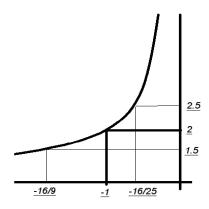
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1. Find the average rate of change of the function $f(x) = x^3 + 1$ on the interval [-1, 1].

2. Use the graph of $f(x) = \frac{2}{\sqrt{-x}}$ to find a $\delta > 0$ such that for all x

$$0 < |x+1| < \delta \quad \rightarrow \quad |f(x)-2| < 0.5$$



3. Evaluate