

Department of Mathematics and Statistics
King Fahd University of Petroleum and Minerals
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Math 101-091

Quiz # : I

Name : = ----- ID# -----

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Q 1 Using (ε, δ) -definition prove that $\lim_{x \rightarrow 3} f(x) = \lim_{x \rightarrow 3} (1 - 5x) = -14$

Q # 2 Let $f(x) = \frac{x^2 - 5x + 6}{(x+1)(x-2)}$

1. Evaluate $\lim_{x \rightarrow 2} f(x)$ and $\lim_{x \rightarrow -1} f(x)$
2. Find all the vertical asymptotes (VA) of the function
3. Find all HA of the function