

King Fahd University of Petroleum and Minerals
Department of Mathematics and Statistics
Math 101 (161) Sec 05 - Quiz 1

Name:

ID:

Serial No.:

1. Find $\lim_{x \rightarrow 0^+} \frac{x-1}{x^2+2x}$

2. $\lim_{x \rightarrow \frac{7}{3}^+} \frac{[3x-5]}{3x-5}$

3. $\lim_{x \rightarrow 1^-} \frac{x^2 - |x-1| - 1}{|x-1|}$

4. $\lim_{x \rightarrow 1} \frac{\sqrt{x} - x^2}{1 - \sqrt{x}}$

5. $\lim_{x \rightarrow 0^-} x 2^{\sin(1/x)}$

6. Use limits to find all vertical asymptotes of the the graph of $f(x) = \frac{|x - 2|}{x^2(x - 2)}$