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

Term 162

Quiz#1 (2.2 & 2.3)

Math 101 (11)

Full Name:	ID#	Ser#
Q1. Use limits to determine whether or not $x = 0$ is a ver	tical asymptote of (x)	$=\frac{x^2+x}{3x^2+x^2}$.
		x^3-3x^2
Q2. Evaluate $\lim_{x \to -\sqrt{2}} \left[\frac{1}{3-x^2} \right]$ if it is exist and explain if it	is not. (where $[x]$ is the	he greatest integer $\leq x$)

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Math 101 (11) Term 162 Quiz#1 (2.2 & 2.3)

ll Name:	ID#	Ser#
21. Use limits to determine whether or not	x = 1 is a vertical asymptote of	of $(x) = \frac{x^2 - 2x + 1}{2x^2 + 2x - 4}$.
		_, , _, ,
22. Evaluate $\lim_{x \to \infty} \frac{x}{\sqrt{2 - x}}$ if it is exist and ex		

 $x \to 0 \ 3 - \sqrt{9 + x}$