KFUPM – Department of Mathematics and Statistics – Term 153 MATH 101 QUIZ # 2: Code 1 (Duration = 15 minutes)

NAME:		ID:	Section:
Exercise 1 (5 points)			
Find $\delta \succ 0$ which satisfies	$ f(x)-2 \prec \frac{1}{2}$	when $ x-1 \prec \delta$ where $f(x)$	$x) = \frac{x+1}{x}$

Exercise 2 (5 points)

Show that the equation $\cos x + x + 1 = 0$ has at least one real root.

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NAME:	ID:	Section:
Exercise 1 (5 points)		
Find $\delta \succ 0$ which satisfies $\mid f($	$(x) - \frac{1}{2} \mid \prec \frac{1}{2}$ when $ x - 2 \prec \delta$ when	$ere f(x) = \frac{x-1}{x}$

Exercise 2 (5 points)

Show that the equation $\sin x + x + 1 = 0$ has at least one real root

KFUPM – Department of Mathematics and Statistics – Term 153 MATH 101 QUIZ # 2: Code 3 (Duration = 15 minutes)

NAME:	ID:	Section:
Exercise 1 (5 points)		
Find $\delta > 0$ which satisfies $ f(x) - 2 < \frac{1}{2}$	when $ x-1 \prec \delta$ where $f(x)$	$=\frac{4x-2}{x}$

Exercise 1 (5 points)

Show that the equation $\tan x + x + 1 = 0$ has at least one real root.