	King Fahd University of Petroleum & Minerals		
	Department of Mathematics and Statistics		
	Math 101 – Quiz 2	Term 122	
Student Name		Student ID:	

 $\begin{array}{l} {}_{\rm Exercise \ {\bf 1}} \\ {}_{\rm Find} \ \lim_{\theta \to 0} \quad sin 2\theta cot 3\theta = \end{array}$

Exercise 2

$$f(x) = \begin{cases} x^2 + a, x \le 0\\ \frac{x - a}{a - 1}, x > 0 \end{cases}$$

For what values of ${\mathfrak a}$ is f continuous everywhere?