<b>Math 101</b>	<b>Quiz</b> # 1(a)	Time: 25 minutes	Date:17-02-2015		
Name	ID#	Sr#	Sec#	Marks:	/8

Q1. Find the following limits (i)  $\lim_{x\to -3} \frac{2-\sqrt{x^2-5}}{x+3}$  (ii)  $\lim_{x\to 0} \sqrt[3]{x} \cos\left(\frac{1}{x}\right)$ 

Q 2. Using  $(\varepsilon - \delta)$  definition, show that  $\lim_{x \to 6} \sqrt{10 - x} = 2$ .

<b>Math 101</b>	<b>Quiz</b> # 1(b)	Time: 25 minutes	Date:	17-02-2015	
Name	ID#	Sr #	Sec#	Marks:	/8

Q1. Find the following limits:  $\lim_{t\to 0} \frac{\sqrt{t^2+100}-10}{t^2}$  (ii)  $\lim_{x\to 0} \tan x \sin\left(\frac{1}{x}\right)$ 

2. Using  $(\varepsilon - \delta)$  definition, to show that  $\lim_{x \to 3} (3x - 7) = 2$ .

<b>Math 101</b>	<b>Quiz</b> # 1(c)	Time: 25 minutes	Date:17-02-2015	
Name	ID#	Sr # Sec#	Marks: /8	

Q1. Find the following limits: (i)  $\lim_{x\to 0} \frac{\frac{1}{x-1} + \frac{1}{x+1}}{x}$  (ii)  $\lim_{x\to 0} \tan x \cos\left(\frac{1}{x}\right)$ 

Q 2. Using  $(\varepsilon - \delta)$  definition, show that  $\lim_{x\to 9} \sqrt{x-5} = 2$ 

<b>Math 101</b>	<b>Quiz</b> # 1(d)	Time: 25 minutes	Date:17-02-2015
Name	ID#	Sr # Sec#	Marks: /8

Q1. Find the following limits: (i)  $\lim_{x\to 0} \frac{\frac{1}{x-1} + \frac{1}{x+1}}{x}$  (ii)  $\lim_{x\to 0} \sin^2 x \cos\left(\frac{1}{x}\right)$ 

Q 2. Using  $(\varepsilon - \delta)$  definition, show that  $\lim_{x\to 11} \sqrt{x-7} = 2$