Department of Mathematics and Statistics KFUPM MATH 101-08 Quiz#1, Time: 20 mins

Student's Name:		ID:	Section No:					
Class Time:	me: Instructor's Name:							
Q.No.1:- Consider the function								
$f(y) = \begin{cases} 1 + y^2 + y \sin\frac{1}{y}, & y \neq 0 \\ b - 1, & y = 0 \end{cases}$								
Find the value of b , if exists, which mal	xes the funct	ion continuous e	verywhere.					
Sol:								

$y \to 1^{-1} 1 - y^2 $		
Sol:		
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Q.No.2:- Evaluate the following limit, if exists. y - 1