Control Exam	2018	_ 2019
Calculus I		
L01		
Exo nº= 1		
. Show that if a is rational and b is irrational to	then a+b c	sirratio
- VIVW TOLL VZ W [114] WHO		
show that 3 3 3 (7 400	
2 Show that 3 3 3 - (1+2+3+v) ALIS.	LIEIN
Hint (116 Ale Paraula 112, 112 n(n+1))	
Hint (use the formula 1+2+-+n= n(n+1)	1	.,
Exon = 2	K Z	<u> </u>
a) let f be a function defined as $f(n) = \begin{cases} 1 & 1 & 1 \\ 1 & 1 \\ 1 & 1 \end{cases}$	χ^2 1 $\leq \chi$	<u> </u>
	8 Vx x	74
Disfinvertible? @ Find &		
Disfinvertible? @ Find & Disf Continon's?		
b) Let g(x) is a fucting defined by g(x) = { x 1) For what value of x g is continous? 2) For what value of x g is discontinous?	$x \in Q$	
b) Let g(x) is a fucting defined by g(x) = 3	~ ID	\
D = 1 + 110 - Par or is C=15 = 100	$\mathcal{L} \in \mathbb{R}$	14
1) 1-22 what value of x y is continued?	procise Ha	0 4
of discretinity (essential or removed by	byerese 100	- Type
@ For what value of x g is discontinuous? of discontinuity (essential or removeable		••••••
	***************************************	***************************************
Show that L &m $\left(\frac{2}{x}\right)$ Does not exist $2-90$ Whing ES Show that L $\frac{2x+3}{3x-1} = -3$ and $\frac{2x+3}{3x-1} = -3$		
2_90		
o your ES Show that 1 2273 = 3 and	1 1	= ICI
2-10 32-1	х_э с	
2 02 .	2	
· Compante these limits: 1 2-2x, 1	- 2	
2-30 01132 2	no secx	<u>-1</u>
1 cosx 1 sinx	\	
1 cosx Sinx , 2 st x-t 2 x = x x-x	1	***************************************
2 2 3	B. CO.	***************************************

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