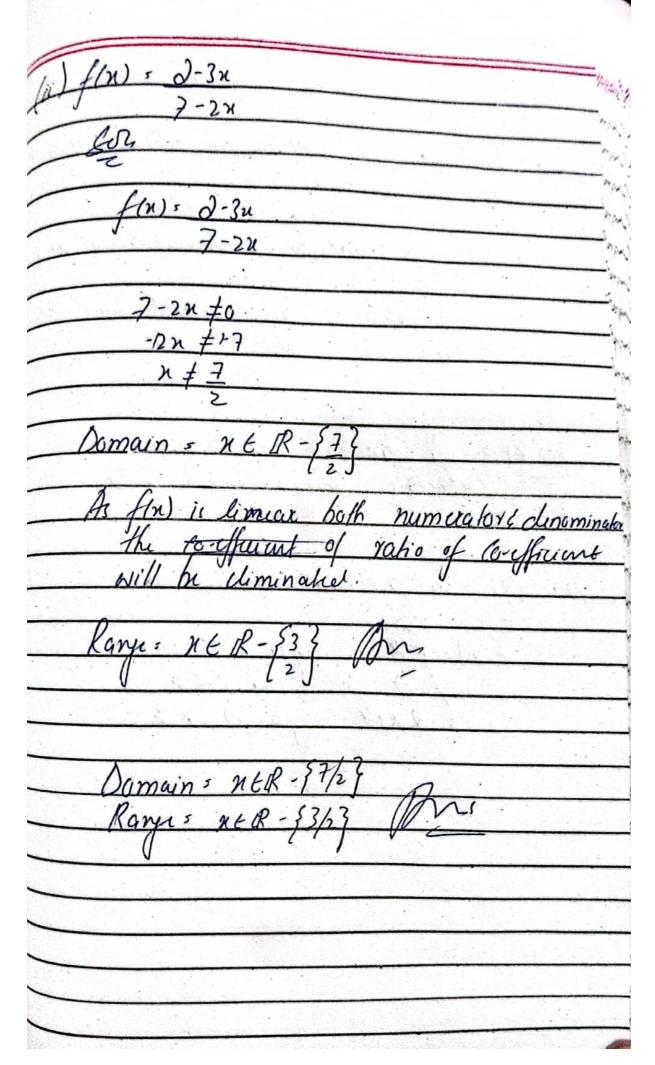
Calculus Assignment:
Alamei- York - Pai
Roll-no:- 24K-0737
finel Domain & Range:
Ting Burnary
(i) f(x)= 14-5x
Sor
4-Jx 20
-1/x 2014
TX 54
Domain = x E [0, 16]
Domain's Ke (Usite)
for ranges
Dut domain -
14-50 3 14:2.
14-516 =) 50:0
Range = [0,1)]
A
Domain & XE [0,16] Dm. Rany - [0,12]
1996 + 20.12 1



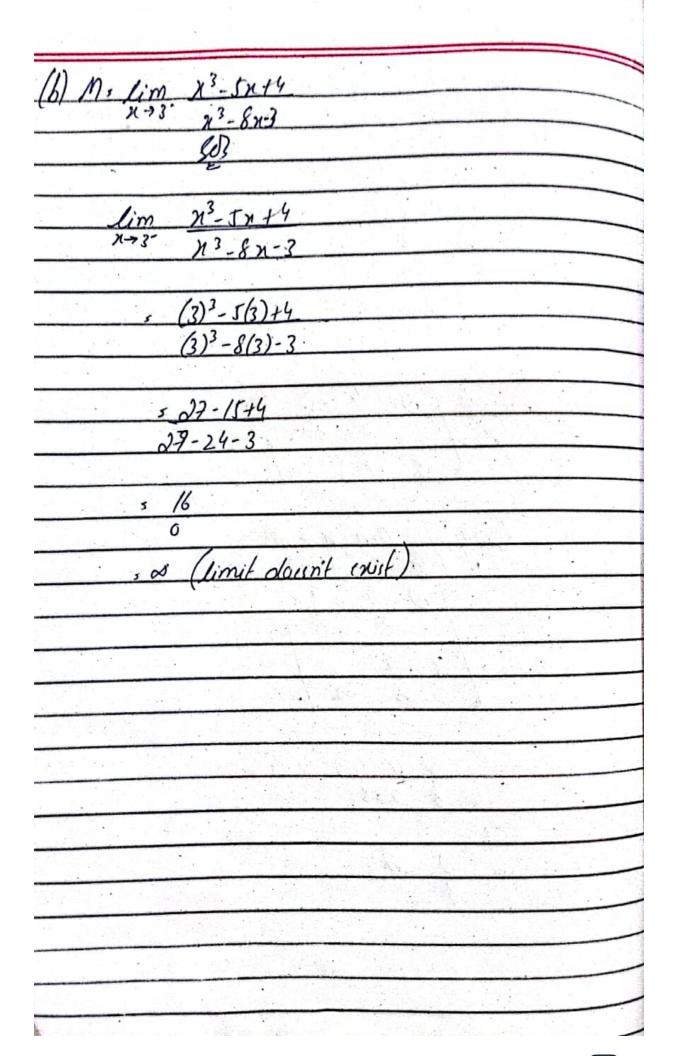
Q#1:- f: (0.1) -> (0.2).
3-x Whether the function is 3-x One to One function,
2-x on to on function
To the state of th
602
for one to one function.  f(x,) s f(x2).
f(x, 1s, f(x))
7(1)=1(12)
4x1 = 4x2
3-x1 3-x2
3 71 3 72
= 4x, (3-x2) = 4x2(3-x1).
- 1/21-42/2 - 1/2 - 4x/12
5 [X15X2]
(Alska)
thick Damain & vanue
(hick Domain & range:- f:(0,1) → (0,2).
$f:(0,1)\to(0,2).$
f(0) 4(0) , 0
f(0) 7(0) 5 0
5-0
f(1) 4(1) + 4 + 2
3-1 2
=> fec, it is one to one (Injulive) function
=> Jec, it is one to one (Injurive) function

Q#3.
Br= Part (9). The function is discontinuous at x=1 & x=2
for= Part (9). The function it discontinuous
24 x = 1 & x = 2.
Till the street the same transport
part(b) 5 /he function is descontinuous at no
E 215)
14 hand & right hand limit or
suff rance a right
not Extral
pout(b) = The function is discontinuous at n=1  E n=2  Left hand & right hand limit are  not Exist
하늘 아이들이 아이들이 많아 하는데 이 사람이 되어 하는데 그들이 있다. 그런 사람들이 가지를 하는데 하는데 가지를 하는데
part(c):- /h. function is Continuous on the intervals (0,1), (62) & (2,3)
part(c):- /k. function 15 continuous on m
Intervals (0,1), (62) & (2,3)
part (d) The piccourse function is:-
f(x)= \{-x+1 for 0 \( \text{c} x \( \text{L} \)
$f(R)^3$
/ 2 FOY 1 = X 22
(-duty for dexes

OHG, find value of a & b is the function of Continuous at the point M:3; 4x2+an+b ハナン 4(3)2+0(3)+6 lim: a+6-2. lim 2(3)3-6(3)+a. da = -38

_	put a:-19, b: 14 & then thet
_	limit:
_	
	fin) = { 9n= +9x + 14 1 1 n 23
_	$\frac{1}{2n^3-14x-19}$ if $n=3$
_	dn3-14x-19 if n>3
_	lim 4(3)2-19(3)+14
_	lim 4(3)2-19(3)+14
_	lim = -7 20-3
i v	
_	lim = -7. N-3
_	K-73
-	1:00 0/2)3-14/2)-19.
	lim 2(3)3-14/3)-19.
	, - 7
-	at x=3.
	at x 53.
_	

ous: Compule the limit of the following 2x4-4x2+5 2x4-4x2+5 21-300 2-0+0



3x3-7x2+6x-2 3n3-7n2+6n-2 (3x2-4x12)