NAME OF THE PERSON OF THE PERS	
	The state of the s
	Chapter 13 (Ex: 13.1)
	Application of Derivatives
1.	Using L Hospital find,
2)	Lim 23-8 1 0, form )
0/	$\lim_{x \to 2} \frac{\chi^3 - 8}{x^2 - 4} \left( \begin{array}{c} 0 & \text{form} \end{array} \right)$
	The first that the fi
2	$\begin{array}{cccc} \text{Lim} & 3x^2 \\ x \rightarrow 2 & 2x \end{array}$
	2 22
=	378 - 2 4
	3×2 = 3/
4	
b)	
	$\frac{2m}{x-7} \frac{2x^3-9x^2+3x}{2x^3-9x^2+3x} \left( \frac{0}{0} \frac{form}{0} \right)$
	2-71 21 -91 +92
2	$2 \text{ im}$ $4 \times 3 - 9 \times 2 \times 2$
	$2 im \qquad 4 \chi^3 - 9 \chi^2 + 2 $ $\chi \rightarrow 1 \qquad 6 \chi^2 - 10 \chi + 3$
7	4(1)3-9(1)2
	6(1)2-10×1+3
	- 4-9
	6-10+3
	= 76
	= 5/

	C Date Page
c)	$\lim_{\chi \to 0} \frac{e^{\chi - \chi - 1}}{x^2} \left( \frac{9}{9} \right) f_{01} $
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	x->0 2x (/0 u/
2	$\frac{1}{x \rightarrow 0} = \frac{e^x}{2}$
-	1/2/
d)	$\lim_{x\to 0} \frac{e^{x} + e^{-x} - 2105x}{\sin^2 x} \left( \frac{o}{o} \right) form$
2	$\lim_{x\to 0} \frac{e^{2t}-e^{-xt}+2\sin x}{2\sin x\cdot\cos x} \left( \begin{array}{c} 0 & form \\ 0 & \end{array} \right)$
-	$\frac{2 \text{ im}}{x \to 0} = \frac{e^{x} + e^{-x} + 2\cos x}{2\cos 2x}$
-	1+1+02
	2 x 1 :
	= 24

STATE OF THE PARTY	
	For L Hospital Rule either of form or so form
	either of form or so form
	Page C
10)	$\lim_{n \to \infty} \frac{1 - 2x + x^2}{n} = \lim_{n \to \infty} \frac{1}{n}$
(e)	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Y	
=	Lim -2 +2x ./ o lorm?
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	*
-	Lim 2
	$\lim_{x \to 1} \frac{2}{-x^{-2}}$
	= -2(1)2
	= -2 //
8)	Lim for ax ( o form)
0/	x=0 tanbx (0)
=	2im asec <sup>2</sup> ax (e form) x→0 bsec <sup>2</sup> bx (e form)
	7->0 b sec2bx (0)
5	2im a cos²bx
	7-70 b 105321
7	3 /
	6
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	Control - Co
	是一种企业的企业,在1876年,1976年,1976年,1976年,1976年,1976年,1976年,1976年,1976年,1976年,1976年,1976年,1976年,1976年,1976年,1976年,1976年
	the state of the s

		(Page C)
9)	りim カー>0	$\frac{\chi^2 - \sin^2\chi}{\chi \sin \chi}$ ( $\frac{\sigma}{\sigma}$ form)
13	1im %->0	201 - 29inx losx (0 form) 91105x + sin2
n	lim 10→0	$\frac{2x - \sin 2x}{x \cos x + \sin x} \left( \frac{e}{o} \right) = \frac{1}{o} \cos x$
2	lim M=0	2-2109x -705inx +005x
	= 0/2	(20) rent mi
h)	1im 20-70	ADMI-X (o form)
2	1im 7->0	Sec <sup>2</sup> 2(-1. (o form)
	lim x→0	1-105x ( o form)
+	lim 7-0	21anx.sec2x Sinx.
	= lim = 7-70	2. signt. (05x.sixx (052x
	= * 2	

	Date Page
1)	lim 21-3102-1062 ( 0) 1 -1
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
-	11m 1/-2105212 1+ 2:07 100
	$1/m$ $1/-1057x$ $1+3i07.105x$ $1/2x^2/3x^2$
	121/ 32
	Lim = (05 x . 5:
	$\frac{\text{Lim}}{\gamma \to 0} = \frac{(05  \text{T.S})}{1}$
	7.40
()	
<i>i)</i>	$\frac{\text{Lim}}{x \to 0} \frac{x - \text{Sinx}(os) \cdot (o \text{ form})}{x^3}$
	χ3 ( σ σ γ
-	2 4
= =	1 im 1 - fginx. sinx + cosx. sisx y ( g form )  x 7 0 3x 2
	x70 3x2
	CONCEPT CONCEPTED COSA SINCE
0	Lim 1 - C052X // Here we (0) verte pro [00.5me]
	Concept  Lim $1 - \cos 2x$   Here we converted into $\cos \theta$ . Since, $x \neq 0$ $3x^2$   $\cos \theta$ is one
	Lim 281n2x (2 form)
	lim 251n2x (2 form) x-0 36x
	Company of the second
	Lim 2"2 (052x
	x-70 3
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	2 .
	3/
The state of	AND THE RESIDENCE OF THE PARTY

	Pege
,1	$\lim_{x\to 0} \frac{(e^{x}-1) \tan x}{x^2} \left( \frac{e}{e} \right) form$
5/	lim (en-1) name (2007)
	$\chi \rightarrow 0$ $\chi^2$
	Lim (en) sec2x +1anx re 9 ( 0 form)
-	Lim (e <sup>2</sup> -1) Sec <sup>2</sup> x + tan x {e <sup>2</sup> } ( o form.)
	The state of the first of the
	missel ( where the tries of the tries
	my of the sort was 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
	(a) (m)
(2)	find the limiting values.
17/	The state of the s
3)	sol, implied a solice and
	$\lim_{x \to 8} \frac{2x^2 + 3x}{1 + 9x^2} \left( \begin{array}{c} \infty \\ \infty \end{array} \right) $
	7->8 1+9x2 (00 000)
	- He 127/1021
2	$\lim_{x\to\infty} \frac{4x+3}{10x} \left(\frac{\infty}{\infty} \right)^{0 \text{ form}}$
	$\gamma \rightarrow \infty$ $10\chi$ $\infty$ $0$
-	1.
	Lim '4  7> 10
	= 2 #
	5 11

	Q Dods Page
b)	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	277+47+3 (20)
=	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	1:n 12 Contapt
=	$\begin{array}{c c} \text{Lim} & & & \text{Concept} \\ \hline \chi \to \infty & & \text{6}\chi & & \text{Here} & \frac{1}{\infty} = 0 \end{array}$
	0#
	#
()	Lim SPC7X (D form)
	Lim Sec7x (D form)  X -> T/2 Sec9x (D)
	1000
_ =	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	7-142 (054)
2	1im + ssinsx
	$x \rightarrow 7/2$ + 7 Sin7x
	The state of the s
-	1×5 concept 1-1)×7 // Here value of sine30 is -1//
	5 11
	= -5 //

	C rest
9)	lim logsing ( ob form)
/	2-30 [01]
	Lim 1 10571 ( 20 form)
2	
	- CoSec2X
	The state of the s
=	Lim - ging. cospe
	χ→0
=	0 "
	011
(9)	tim logx
	$x \rightarrow 0$ $log(otx)$
	conlept
	Ling 1 coin (Here chain rule is in
	$\chi \to 0$ $\chi - 105ec^2\chi$ (USe)
É	Lim 1.10971. Sin2x
-	7-30
	X-70 X-310X NEOK FLORING TO THE
2	Lim 3102x
	7-90 2%
=	
	Lim 2 (092) X70
- 12	1

		Poge Onte
8)	lim x→∞	$\frac{\chi \psi}{e^{\chi}} \left( \frac{\infty}{\infty} \int_{0}^{\infty} f_{0}rm \right)$
-	Lim x→∞	ex ( so form)
11	Lim $\chi \to \infty$	$\frac{12\chi^2}{e^{\chi}} \left( \frac{\sigma}{\sigma} \int_{0}^{\infty} f_{0} dm \right)$
	Lim x > D	24x ( so form)
0	Lim x->i0	24 ex
	= 24	
9)	1im x → 1/2	$dansx \left( \frac{1}{2} \right)$ $danx \left( \frac{1}{2} \right)$
١,	I'm  X -> T/2	$\frac{g gec^2 g\chi}{gec^2 \chi} \left( \frac{g}{\varphi} \right)$
7	4m x -> T/2	$\frac{6(05^2\chi)}{(05^29\chi)} \left( \begin{array}{c} 0 & form \\ 0 & \end{array} \right)$
=	Lim 7-7 1/2	\$\$\\ \( \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \\ \\ \ \) \( \)

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10 =	Lim 2 gin2x x→1/2 gin10x
-	Lim 2109276 x -> 9/2 10(05/0)
	= 134
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