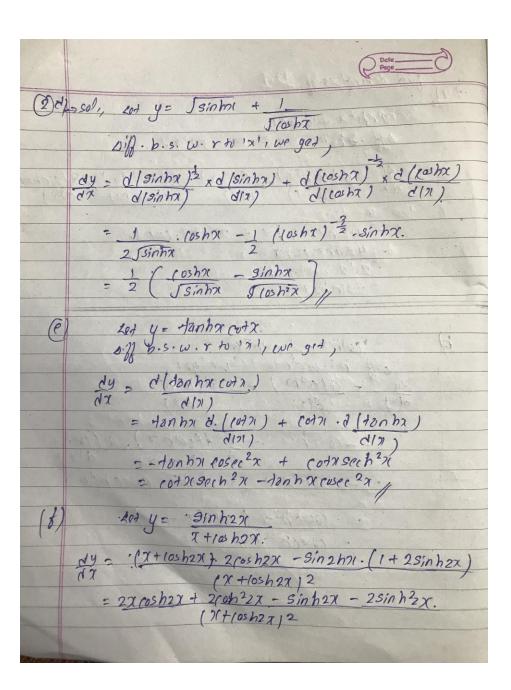
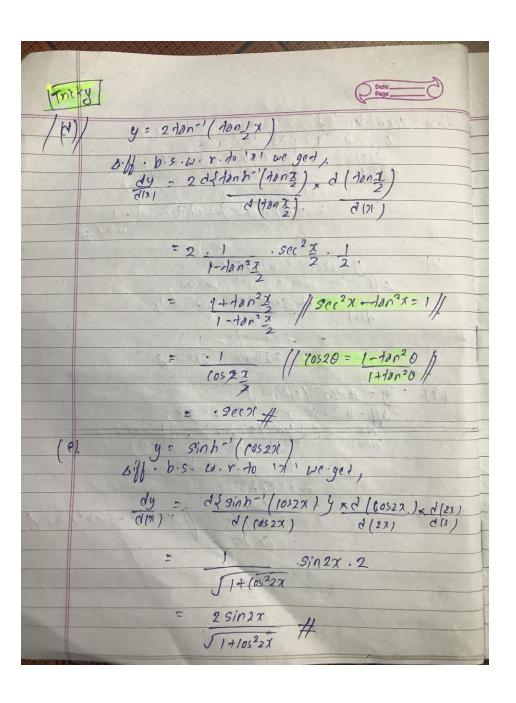


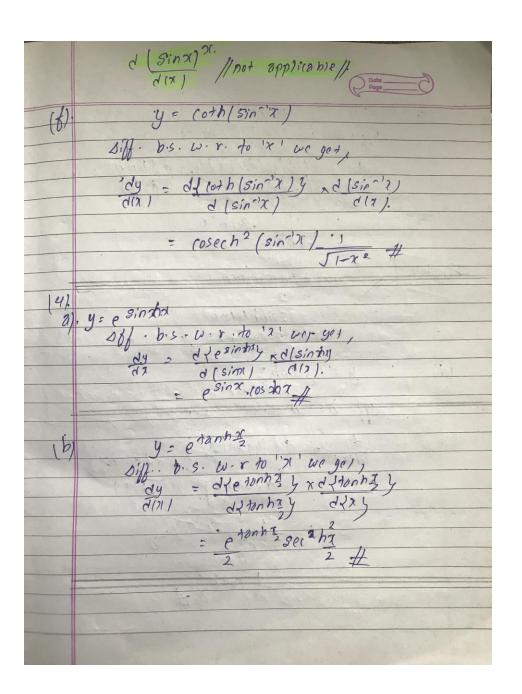
	Dobo
	find derivatives of.
2.0)	
	$9inh^2x + 105h^2x$
	siff. b.both. w. r. to 'n', we ged,.
	Au dleosh2x) d Ceorba 1 + d (oigh2x 1 :1/ac)
	$\frac{dy}{dx} = \frac{d(\cosh^2x)}{d(\cosh x)} + \frac{d(\sinh^2x)}{d(\sinh x)} + \frac{d(\sinh^2x)}{d(\sinh x)} + \frac{d(\sinh x)}{d(\sinh x)} = \frac{d(\sinh x)}{d(x)}$
	= 2105hx. sin hx + 25in hx. loshx.
	= 49inhx. (a.hx.
	= 2. 29/n hn. 105 hn.
	= 29in h2x /
	the standard of the
b	cothor -1 coth 3x.
	$cothn -1 coth^3x.$ $sif b.s. w. 3r to 'r' we get,$ $dy = d(cothn) - 1 d(cothn)$ $d(r) d(x)$
	dy = d(07h), - 3 d(107h)
	d(n) $d(n)$
9 11 17 63	
	- cosec h2x - 1 d(codh3z) -d (coth2)
	$= -(\operatorname{osec} h^2 x) = \frac{1}{3} \frac{d(\operatorname{cot} h^3 x)}{d(\operatorname{cot} h^3 x)} \times d(\operatorname{cot} h^3 x)$
Si November	$= -(\operatorname{csec} h^2 x) = \int d(\operatorname{cot} h^3 x) d(\operatorname{cot} h^3 x) d(\operatorname{cot} h^3 x)$ $= -(\operatorname{csec} h^3 x) + \int d(\operatorname{cot} h^2 x) d(\operatorname{cot} h^3 x) d(\operatorname{cot} h^3 x)$ $= -(\operatorname{csec} h^3 x) + \int d(\operatorname{cot} h^3 x) d(\operatorname{cot} h^3 x) d(\operatorname{cot} h^3 x)$
	$= -(\operatorname{osec} h^{2}x - \int d(\operatorname{cot} h^{3}x) \times d(\operatorname{cot} h^{3}x)$ $= -(\operatorname{osec} h^{2}x + \int_{3}^{2} x^{2} \operatorname{cot} h^{2}x \operatorname{cosec} h^{2}x.$
	$= -(osech^2x - 1) d(coh^2x) x d(coh^2x)$ $= -(osech^2x + 1 \times 3 coth^2x cosech^2x.$
	$= -(osech^2x - 1) d(coh^2x) x d(coh^2x)$ $= -(osech^2x + 1 \times 3 coth^2x cosech^2x.$
	$= -(osech^{2}x - \int d(cohh^{3}x) \times d(lothn)$ $= -(osech^{2}x + \int x^{3} coth^{2}x cosech^{2}x.$ $= -(osech^{2}x + (coth^{2}x - 1))$ $= (osech^{4}x)$
	$= -(osech^2x - 1) d(coh^2x) x d(coh^2x)$ $= -(osech^2x + 1 \times 3 coth^2x cosech^2x.$
	$= -(osech^2x - 1) d(coh^2x) x d(coh^2x)$ $= -(osech^2x + 1 \times 3 coth^2x cosech^2x.$
	$= -(osech^{2}x - 1) d(coh^{2}x) d(roth^{2}x)$ $= -(osech^{2}x + 1 \times 3 coth^{2}x cosech^{2}x.$ $= -(osech^{2}x (coth^{2}x - 1))$ $= (osech^{4}x)$

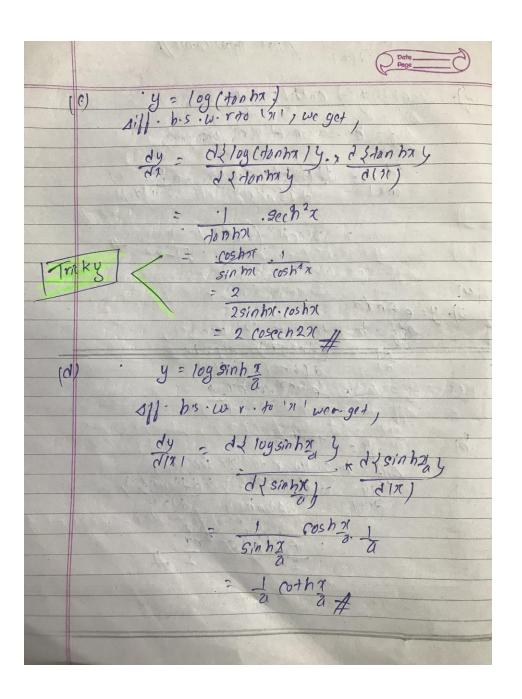


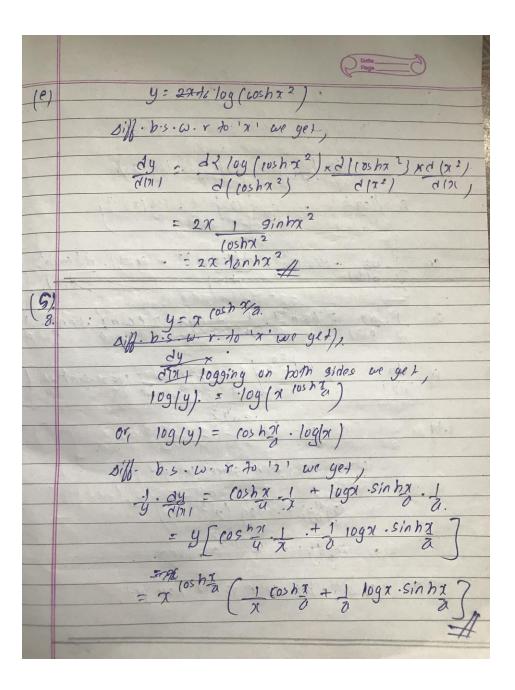
	Pople Ruge.
:	2x(05h2x - Sinh2x + 2105h2xx - Sinh2xx.
	(x+105h2x)2
1	27105h271 - Sin h27+7
•	$\frac{2\chi(0)h2\chi - \sin h2\chi + 2}{(\chi + \cos h2\chi)^2}$
75.0	
3)	
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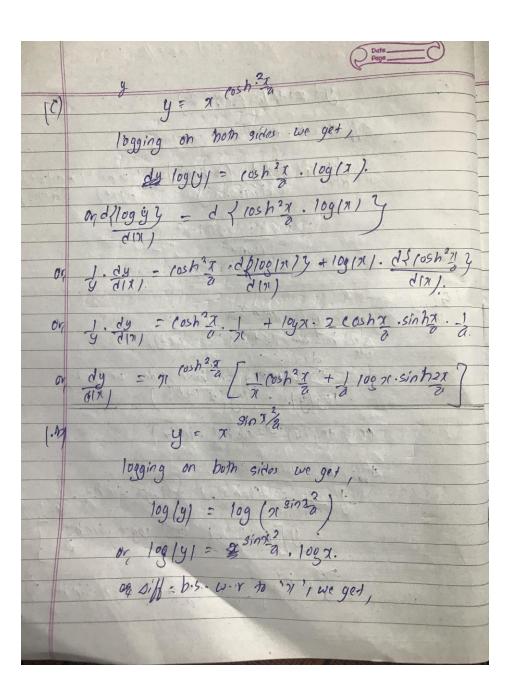
	Date Page
(3/13)	Sech (dan'x)
	Diff. b-s. w. r. to 'x', wget,
	Diff. b-s. w- x ' to 'x', wget, d(x) = d & sech (dor') / y ~ d (dor') d(x) d (tor') d(x)
	C (nor ac)
	= Soch (dan'z).donh/dan'x).1
	= 50ch (dar'z).donh(don'x).1
, h	
(b)	9=5000 1 -1050 X.
	y = Sech - 11 - (0sh - 12. A. It. b.s. w. r to 1111, we get, dy = dx Sech - 2 - (0sh - 2) y d(1) A 12(1)
	d(1)
	$\frac{2}{2} = \frac{1}{2} = \frac{1}{2}$ $\frac{1}{2} = \frac{1}{2} = \frac{1}{2}$
	751-x2 5x2-1-4
10	· 'u = A dan - '(sin hx)
(1)	off b.s. w. r to 'x' we get,
	dy = d Solan (sinhay & d Isinha)
	dy = d schon' (sinha y d sinha) (1) d(sinha) d(a)
	8. 1+8inh2x
	Su (+one)
	$= \frac{\cosh x}{\cosh^2 x} \left(\frac{\cosh^2 x - \sinh^2 x = 1}{\cosh^2 x} \right)$ $= \frac{\sinh^2 x}{\sinh^2 x} \left(\frac{\cosh^2 x - \sinh^2 x}{\sinh^2 x} \right)$
	= Sechni #
	2.1232
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	2000









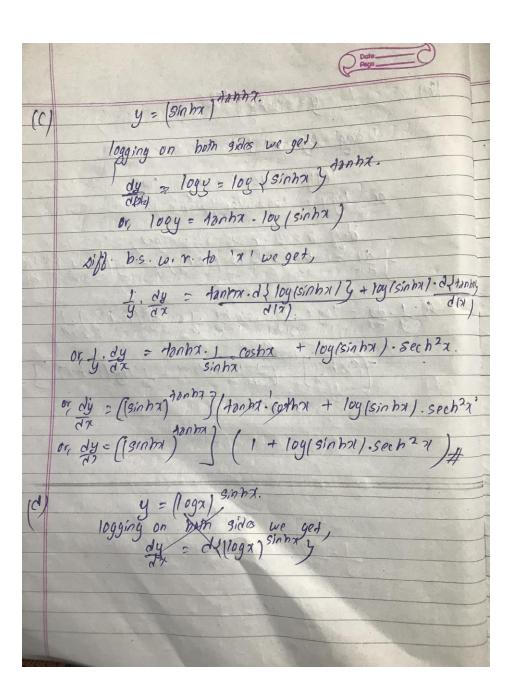


Page Date or, 1 log/y) = d2 = 72 sinx2: logn y

y din 1 = · sinx2 · d / log x 1 + 1 og x · d / sin x 2 } : sinx2.1 + logx. 2sinx. (05x) = y (1 sinx + 1 logn · sin2x] = 7 3in 3/2 [1 gin 22 + 1 log 21 · Sin 2 x] $y = x^{1/2} - \frac{1}{3}$ logging on both side we get, $\log |y| = \log (x)^{1/2} \frac{3}{3}$ or, log [y] = for 2 · log (>1). J. dly) = dar 12. dflog(x) + logx. dfdar 2)
y d(x) d(x) = 4 x 100 x . 1 + 109x . 1 100x . 1 100

y= (sinh ta) taking log on both sides. on logy = 7 . log (sinh]: siff. b.s.w. r. to 1211 we get, d(10gy) rd(y) = 22 d log (sin 2) rd(sin 2) d(sin 2) d(sin 2). +100 (sinha) d(2) on dy = 4[x2. (othx + 2x. log (sinhx)] or dy = (9inhx) 2 (2 x2 (0+hx +2x. log (sinhx)) 7

	Date Augu
(4)	$y = (rosh_{\frac{\pi}{d}})^{log_{\pi}}$
	daking log on hom sides we get,
	1094 = 109 f ros nx y 109x.
	or logy = logx log (loshx)
	1 dy = 10gx - 2/ 10g (Losha) y + 10g (10sha) - 2/ 10g21
No.	COME TO SURE SPORTED TO THE
or	1. dy = 10gx · 1 · sin hx · 1 + log (10sh x) · 1 y dr 10shx
	9 67 (05/12)
	= (cosh x) (2 10gx. 10nx + 1 10g(10x h2) #
Sauce States	114 (2) 12 (-11) 2 (11) 2 (11) 2 (1) 11
	- Charles Bullet of March Control of March
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Idl	Dute Page
[0]	1099 ing on hoin sides we get,
•	d: 10gy = 10g \$10gx y sinhx.
	or, logy = tog sinhx . log 2/10971 y
	Diff. b.s. w. r to 1x1 we get,
	1 d(y) = Sinha : d loy (logal) + loy loga y d sinhay y d(x) d(x)
OV.	1 dly) = ginhx. 1 1 + log(logx). (05 hx y d(x)) logx. x
or	d(y) - y [sinhx + log(logn).loshx]
	-= (10gn) Sinhil Sinhx + 10g (10gn) - 10shil
(e)	$y = (roshx) \cdot sinh^{-1}x$. 109ging on hom sides, we get, 10gy = 10g \(roshx \) \(sinh^{-1}x \).
	10gy = 10g (10>hx 5
	or, logy = sinh 2. log & lush x y.

