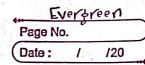
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0	nth devirative of 1
<u> </u>	$\alpha^2 - \chi^2 = (\alpha - x y \alpha + x)$
U	$\alpha^2 - \kappa^2$ $(\alpha - \kappa)(\alpha + \kappa)$
	(a-x)(a+x) (a-x) (a+x) [By partial fraction)
	(a-x)(a+x) (a-x) (a+x) fraction)
	$\frac{1}{A(a+n)+B(a-n)}$
	(G-x)(07x) (Q-x) (a+x) (coefficient voise
	$(A-B)x = 0.x \Rightarrow A+B=Va$ $(A-B)x = 0.x \Rightarrow A-B=0 \Rightarrow TA=B$
	$2A = \frac{1}{2}$
	$\frac{1}{20} \begin{bmatrix} A = 1 \\ 2a \end{bmatrix} \begin{bmatrix} B = 1 \\ 2a \end{bmatrix}$
<b>3</b>	(a-x)(a+x) = 2a(a-x) = 2a(a+x)
& Killionia	

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,nc	Inv+naun-v,+navn-22+···+navergreen
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By	eibnitz theorem
- Goy	desirative of (1+x2)4
	V u v=1+x2
	Q = QL
	U1=43=411 V1=22
	4; 64 = d+2
	Un = yn+2
	$(1+x^2) + 2 (2x) + 2(x) + 2($
	$y \cdot (1+x^2) + y \cdot (2x) + y(y - 2x) \cdot (x) \cdot (x)$
- noth	derivative of xy
	U-u manufacture and a second an
100 mm m	U=y, U=y=y=
	$y \cdot x + n y \cdot 1 - 2$
-add	ing (1) da (2n+1) y + 12y -0
和電源	CITA ON+2 ON+1 ON
<u> </u>	If U(x,y,z) = log (ten x + teny + tenz)
- Control of the Cont	S-7. Sinak Un + sinay Uy + Sinaz Uz=2.
	$U_{x} = \frac{\sec 2x}{\cos x}$
	teux + tang + teurz
	· Un _ Nec2 y
	-taux + temy + tem 7
	U.



Uz = Secaz taux + tang + tanz L.H.S. Sinaxum + Sinagu, + Sinazuz Pnav Decax + Sinay Secay = sinax bec2x tauxitany + tau 7 tang + tang + tan teurs + lang + tenz J. T. 63. 330  $(x+y) = \chi^2 + y^2 \quad \text{S.T.} \quad (z_x - z_y) = (\chi^2 + y^2)/(x+y)$  $\frac{Z_{x} - (x+3)(2x) - (x^{2}+y^{2})}{(x+y)^{2}} = \frac{2x^{2}}{(x+y)^{2}}$   $= \frac{(x^{2} + 2xy - y^{2})}{(x+y)^{2}}$  $(x+y)(2y) - (x^2+y^2) - 2xy+2y^2-x^2-y^2$   $(x+y)^2 - (x+y)^2$   $(x+y)^2$ 7x - Zy)2  $\chi^2 + 2\chi_y - y^2$  ( $y^2 + 2\chi_y - \chi^2$ ) (x47)2 (x+2)2

-x2+2xp (x+z) R.H.S L. H-S = R. H.S