

(19) sinhudy = coshu+c		
20) Coshydy = Sinhy+C		-114)
2) Sechydy - tanhy+c	1 . · · · · · · · · · · · · · · · · · ·	in a
22) Scschudu= cothu+c		AN CANAL
(23) Sechytanhydy =- Sechytc	1 P	+021
(24) Scothy. CSChudy= - CSChu+C	\$ 10 to 10 t	- Ph () (
25) Stanhy = In coshyl + c		Charles JA
2B) Cothy = In Isinhyl, C		
$\frac{2}{\sqrt{4^2+1}} = \sinh^{-1}4 + C$		السالب
$\frac{28}{\sqrt{4^2-1}} = \cosh^{-1}4 + C$		4. 35 0
(29) Sechu+c	(-4	+4 /
$\frac{30}{4\sqrt{1+4^2}} = -csch_{4+c}$		The state of the s
31) dy = tan by'' + c	N. H. S.	
cothi, c		
	16.2	

Different	ا على الميال ال
كل دالة ومشتقيها	(مشتقات الدوال) (noitai فيما مليء جمول بالمشتقات يومع)
function y- P(x)	Derivative $\bar{y} = \frac{dy}{dx}$
C= Constant =1	
CX X ⁿ	$\frac{C.1 = C}{n \times n - 1}$
11 V	$\frac{nu^{n-1} \cdot \overline{u}}{u \cdot \overline{v} + \overline{v} \cdot \overline{u}}$
u V	<u>v.u.u.v</u>
Sin X Sin U	Cos u. u
Cos X Cos U	-Sin X -Sin 4. U
tanx	$\frac{1}{\cos^2\chi} = \sec^2\chi$
tanu	Cosu Sec U. u
- e v	e^{x} e^{y} \overline{q}
In X	×
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	محتقات الموالى المكثرة الاخرى
_secx	secx. tanx
Secu	secu. tanu. u
CSC X	-csc x cot.x
_ CSC U	-CSCU. Cot.U. U
cot x	-csc2x
Cot u	-csc2u -u
- tr	م يتقان المعال المشية المعكوسة
SinX	$\sqrt{1-x^2}$
sinu	$\frac{1}{\sqrt{1-u^2}}$ \overline{u}
	VI-U ²
cosX	$\sqrt{1-\chi^2}$
Cos U	$\frac{-1}{\sqrt{1-u^2}}$
1	1
<u>tan x</u>	1+ X2
tanu	1+u2 /
Cot x	1442 8
Cot X	1+X2 8
Cotu	-1 . U
secx	
secx	$X\sqrt{X^2-1}$
sec u	
	UVU^2-1
cscx	$\frac{-1}{X\sqrt{X^2-1}}$
csc u	
CSC 4	$\frac{-1}{u\sqrt{u^2-1}} \cdot \overline{u}$

	hyperbolic fun. estario		
sinh x	cosh X		
sinhu	Coshu. U		
Cosh X	SinhX		
Cashu	sinh U. U		
tanhx	sech X		
tanhy	sech u. Y		
Coth X	-cschX -		
Cothy	-csch²u. U		
sechx	sech x.tanhx		
sechy	sechustanhu. ú		
csch x	- csch x. cot x		
csch u	- Cschu. Cotu. u.		
- And	hyper fun. Il a skell Jie 181		
sinh x			
sinh u	$\sqrt{1+u^2}$ $\sqrt{1+u^2}$ $\sqrt{1+u^2}$		
Coshx	(X)		
Coshu	$\frac{\sqrt{\chi^2-1}}{\sqrt{ \chi^2-1 }} \cdot \overline{u} (u>1)$		
tanhy	1 (1X) 5 levis)		
tantic	$\frac{1-\chi^2}{1-u^2} \overline{u} (u <1)$		
	1 1		
coth x	$\frac{1}{1-X^2} \frac{ X > 1}{1} \frac{1}{1} \frac{ X > 1}{1}$		
cothu	$\frac{1-u^2}{1-u^2} \cdot u (u >1)$		
sechx	XV_1-×2		
sechu	$\frac{-1}{u\sqrt{1-u^2}}$		
	_1		
Csch X	$1 \times 1 / 1 + \times^2$		
CSON 4			
C'SCh-U	$\frac{-1}{ \mathcal{U} \sqrt{1+ \mathcal{U} ^2}} \cdot \mathcal{U}$		