	Date
4) $y = \cos u$ , $u = -x/3$	5) y = cosu, u = sinx
$f'(u) = \frac{d \cos u}{du}$	$f'(u) = \frac{d}{du} \cos u$
$f'(u) = -\sin u$	$\int f'(u) = -\sin u$
$g'(x) = \frac{1}{3} \frac{d}{dx} x$	$iig'(x) = \frac{d}{dx} \sin x$
g/xx) = x = 1 1 15 15	(50) 9:(n) = Cosn 1
	$f'(g(x)), g'(x) = -\sin u \cos x$
$f(g(x)) \cdot g'(x) = (-\frac{1}{3})(-\sin u)$	$\left[f'(g(x))\cdot g'(x) = -\cos x \sin(\sin x)\right]$
$f'(g(x)) \cdot g'(u) = + \frac{\sin(-x/3)}{3}$	[] (g(x)) ig (x) = cosiosin(siny)
b y = sinu, u = x - cosx	$\widehat{\mathcal{F}}$ $y = tanxu$ , $u = 10x - 5$
$f'(u) = d \sin u^2 = 0$	$f'(u) = \frac{d}{du} \tan u - x \cdot 8 = 10 \cdot \frac{\epsilon_{0.0}}{\epsilon_{0.0}} = \frac{\epsilon_{0.0}}{\epsilon_{0.0}}$
* 1 ( )	$\int f'(u) = sec^2 u$
$g'(x) = \frac{d}{dn}(n) - \frac{d}{dn}\cos n$	$g'(x) = \frac{d}{dn} lox - \frac{d}{dn} $
$g'(n) = 1 + \sin x$	g'(x) = 10
$f'(g(x))g'(x) = (\cos u + \sin x \cos u)$	$f'(g(x))-g'(n) = 10sec^2u$
f'(g(x)).g'(x) = (1+sinx) (cos (x-co.	$f'(g(n)) \cdot g'(n) = 10 \sec^2(10x - 5)$

		Date
8 y= -secu, u=x	+7x + Ex # 9-18	, write function in form of
$f'(u) = -\frac{d}{du} \sec u.$	y=f(u) an	nd u=g(x), Then find
dy	dy as	a Function of x:
f(u) = - secutanu	9) y = (2	2x+1)5
$g'(n) = \frac{d}{dn}(x) + 7 \frac{d}{dn}$	x) le:	$2x+1$ 40, $y=4^{5}$
		$= \frac{d}{du} y^{5}$
g'(x) = 2x + 7		1) = 54 <sup>4</sup>
$f(g(x))\cdot g'(x) = (2n+7)$	744	$= 2\frac{d}{dx}(x) + \frac{d}{dx}(y)$
3 . 0	dy = g(x	
= $[(2n+7)(-\sec(n^2+7x))$		$10u^{4} \Rightarrow 10(2x+1)^{4}$
$y = (4-3\pi)^9$		$\frac{12}{\text{let}} y = \left(\frac{x}{2} - 1\right)^{-10}$
801	Sof.	$y = \frac{z}{2} - 1$
let. u= 4-3x	$u = 1 - \frac{\alpha}{7}$	dy = nd u-10 = 1
$y = u^q$	y=u-7	du d
$dy = d_{1}9$	$\frac{dy}{du} = \frac{d}{du} u^{-1}$	$\int \frac{du}{du} = -10u$
du du	$\int_{du}^{dy} = -7u^{-8}$	$\frac{1}{dx} = \frac{1}{dx} \left( \frac{x}{x} \right) - \frac{1}{dx} \left( \frac{x}{x} \right)$
$\int \frac{dy}{du} = 94^8$	$\frac{dy}{dy} = \frac{1}{dy} \frac{dy}{dy} = \frac{1}{dy} \frac{dy}{dy} \times \frac{dy}{dy} = \frac{1}{dy} \frac{dy}{dy} = \frac{1}{dy} \frac$	$\left[\frac{dy}{dx} = \frac{1}{2}\right].$
$dy = d_4 - 3dx$	$\frac{du = -1}{}$	$\frac{dy}{dt} = \frac{dy}{dt} \cdot \frac{du}{dt}$
dr dr dr	dy = 1/1/1/1/4 )	dy Cu-11
$\frac{du}{du} = -3$	dx (dy - 1. x -8)	du -34
$\frac{dy}{dx} = -27(4-3x)^8$	du (1-7)	dx = -5(\frac{1}{2}-1)
B		

	Date
(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	
4= 2/2 + x2 - 101/3-101 10 20 -1	
y= 4 (1+xs) = 4	dy = d u'r = 1 u 2 2 Tu
dy du du	$\frac{dy}{dx} = 3\frac{d}{dx}x^2 - 4\frac{d}{dx}x + \frac{d}{dx}6$
	$\int \frac{dy}{dx} = 6x - 4$
$\frac{dy}{dn} = \frac{1}{8} \frac{d(x^2)}{dn} + \frac{d(n)}{dn} - \frac{d(x^2)}{dn}$	$\frac{dy}{dn} = (6x - 4)\left(\frac{1}{2Fu}\right)$
$\frac{dy}{dx} = \frac{\chi}{4} + 1 + \frac{1}{\chi^2}$	$\frac{dy}{dx} = \frac{2(3x-2)}{\sqrt{3x+6}}$
$\left[ \frac{dy}{dx} = \left( \frac{x}{4} + 1 + \frac{1}{x^2} \right) \left( 4 \left( \frac{x^2}{8} + x - \frac{1}{x} \right)^3 \right) \right]$	$\frac{3n^{2}-4n+6}{3n^{2}-4n+6}$
(5) $y = sec(tanx)$	(b) $y = \cot\left(x - \frac{1}{n}\right)$
y = sec u	
dy = dy secu > [seculany]	$\frac{dy}{du} = \frac{d}{du} \cot u \Rightarrow \left  - \csc^2 u \right $
du = d tank ⇒ [sec*x].	
$\frac{dy}{dx} = \frac{dy}{du} - \frac{du}{du}$	$\frac{dy}{dx} = -\frac{\csc^2(\pi - \frac{1}{\pi})}{x^2}$
dy = secutany sec2n	
$\frac{dy}{dn} = \sec^2 n \sec (\tan x) \tan (\tan x)$	
	et and the representation of the second

Date ..... 4 = cosx u= sinx -20 u-5  $\frac{dy}{dn} = \frac{d}{dx} \cos n$ = 24 sinx (cosx)  $\frac{dy}{dx} = 3\cos x \left(\sin^3 x\right)^2$