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Alumno: Dennys Alexander	Pucha (	arrerc	1											
Techa: 5/5/2023					4	1	3 [						=	
							1							
Curso: 4to ciclo "A" - Co	mputacion						H							
		6.1	E) 24		7 3								= 18	
· Hallar la derivada de las	functiones					+	H							
2 x 2 m E	\$#)xt-=	E	503			X E 9				-		8		
1. 9= x5 +5 x4 -10 x2 +6														
y = 5x4 +20x3-20x +0	3'=51	$x(x^3)$	+47	(2-	4)	ſŀ.	ξ,				s X	ß-	-14	
2. y= 1 2x+3	Función recipioca	1	1 7	17	=	- Sx	16	x)					. 6.	
2×+3	1 c cipioca	4	(x)	1		U	(×	a						
$4' = \frac{\partial}{\partial x} \left[ 2x + 3 \right]$	2 d 2 x	1-0	2											
$(2\times +3)^2$	$2.\frac{d}{dx}2x$	d x	7 / 2	-	2 -	1+0	12	-	_	6	12	~ 1 2	12/	1/
(2373)	(2.84)	0]			(2	X + D					12	X+0	71 //	
2 11 1				y 3										
3. 9= J2x-1														
1 1/- 119	= XX													
$y' = 2x^{1/2} - 1^{1/2}$ $y' = \frac{d}{dx} 2x^{1/2} - \frac{d}{dx} \frac{1^{1/2}}{2}$		1/2-1				1/2								
$9 = \frac{d}{dx} 2x^{2} - \frac{d}{dx}$	$=\left(\frac{1}{2}\right)$ 2×	-	-0	5	X	12	Ξ.	-	8					
0,7								V	X '	1,	1			
		29 mg	1961	20		6/2	0.9	βĺ					o Ho	
4. y= sen (x). (os(x)	9 (x	() = 50	n (x)											
AL AL MATERIAL MATERI		) = (		)			1	8		ķ			1	
41 = 500 (x) + d cast	1) + 505 (4	1 4	Cont	· \				Ŋ						
y = sen(x) + d cos(	71030	δx	Sere											
g'= sen(x)sen(x)	+ 000	x)	03( V	) ×			4	v/,	3	y				
		7 00		/										
$y' = -sen(x)^2 + co$	(x) 11	15												
( x y A ) F	12 X 342	7 8					1			×				
5. 4= 3x. Cos x 3 = g(x)=	3 X													
h(x) =	05 X 7	1												
1- 21 3	.3 /					,					-			
$J' = 3x \cdot d \cos x^3 + \cos x$	x . 0 3	X		. (0										
OX	dx							10				47	OTTLO	

Rega de la codena da (f(g)) = 
$$\frac{1}{3g}$$
 (f(a))  $\frac{1}{3x}$  dy (g(x))

 $y'' = 3x$ ,  $\frac{1}{3x}$  (cos(g)) +  $\frac{1}{3}$  x<sup>3</sup> + ros x<sup>3</sup> · 3

 $y'' = 3x$ , -sen(g) +  $3x^2$  + ros x<sup>3</sup> · 3

 $y'' = 3x$ , -sen(g) +  $3x^2$  + ros x<sup>3</sup> · 3

 $y'' = 3x$  -sen x<sup>3</sup> +  $3x^2$  +  $3x^2$ 

2. 
$$9 = (x+2)^3 = \int (x+2)^3 dx = \int (0)^3 dx = 0^{\frac{1}{3}} + C$$

$$= (x+2)^4 + C$$

3.  $9 = x+1 = \int x+1 dx = \int x+1 dx = \int x/1/2 dx + \int \frac{1}{x}/1/2$ 

$$= \int x^{1-1/2} dx + \left(-\frac{1}{-1/2} \cdot x^{1/2}\right) = \int x^{1/2} dx + \left(\frac{1}{-1/2} \cdot x^{1/2}\right)$$

$$= \int x^{1-1/2} dx + \left(-\frac{1}{-1/2} \cdot x^{1/2}\right) = \int x^{1/2} dx + \left(\frac{1}{-1/2} \cdot x^{1/2}\right)$$

$$= \int x^{3/2} - \frac{1}{2} - \frac{1}{2} \cdot x^{3/2} = \frac{1}{2} \cdot x^{3/2} dx + \frac{1}{2} \cdot x^{3/2} dx$$

$$= \int x^{3/2} - \frac{1}{2} - \frac{1}{2} \cdot x^{3/2} dx - \frac{1}{2} \cdot x^{3/2} dx + \frac{1}{2} \cdot x^{3/2} dx$$

$$= \int x^{3/2} - \frac{1}{2} - \frac{1}{2} \cdot x^{3/2} dx - \frac{1}{2} \cdot x^{3/2} dx + \frac{1}{2} \cdot x^{3/2} dx$$

$$= \int x^{3/2} - \frac{1}{2} - \frac{1}{2} \cdot x^{3/2} dx - \frac{1}{2} \cdot x^{3/2} dx - \frac{1}{2} \cdot x^{3/2} dx$$

$$= \int x^{3/2} - \frac{1}{2} - \frac{1}{2} \cdot x^{3/2} dx - \frac{1}{2} \cdot x^{3/2} dx - \frac{1}{2} \cdot x^{3/2} dx$$

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$$= \int x^{3/2} - \frac{1}{2} - \frac{1}{2} \cdot x^{3/2} dx - \frac{1}{2} \cdot x^{3/2} dx - \frac{1}{2} \cdot x^{3/2} dx$$

$$= \int x^{3/2} - \frac{1}{2} - \frac{1}{2} \cdot x^{3/2} dx - \frac{1}{2} \cdot x^{3/2} dx - \frac{1}{2} \cdot x^{3/2} dx$$

$$= \int x^{3/2} - \frac{1}{2} - \frac{1}{2} \cdot x^{3/2} dx - \frac{1}{2} \cdot x^{3/2} dx - \frac{1}{2} \cdot x^{3/2} dx$$

$$= \int x^{3/2} - \frac{1}{2} - \frac{1}{2} \cdot x^{3/2} dx -$$

= 3 sen X = -3 cos x + C 6. 4 = cos 2 x = 2. cos (x) . d [cos (x)] = 2 cos(x) - sen (x) = -2 cos(x) . sin(x)