Exempla	19	
	oiserenciable DODO Verceique que	FCX
	2 (X,Y) = C65 0 2 f + Sen 0 2 f (T,0) 2 r 20 2 r	
Salveão	3F (r,0) = 3F (X,Y) 3X + 3F (X,Y) 3X 3r 3x 3r 3Y 3r	
(J)	3F=(r,0)= (650 3E (X,Y) + 5en 0 3E (X, 3r 3X 3Y	у)
	3F (Y,0) = 3F (XY) 3X + 3F (X,Y) 3Y 30 3X 30 3Y 30	9 9
Θu	36 (r.0) = -r 5en 0 3E (x.y) + r (060 3F 30 3x 3y	
(Q)	1 3F (r,0): - 50n 0 2F (x,y) + (050 2F (r 30 3x 3y	Y., Y)
memoro	el conno a par sen a. a par cas a e s a membro entomas a reloção que querro	emar Semu

	Seg Ter Qua Qui Sex Sáb Dom
@ @ Z= Sen XY	
x= 3t 02 = - 5en x/	
A: fy Of	and the second second second
= Sen(3) + 1	anya- all taken to call a
U= 3+32 = 5en(3+3)	
= (05(313)	0 (3+3)
D = 5en(u) = (05(u)	06
DU = 3(D(+3))	
(Ot	
= 3.312 (6	35(313)
= 9 t2 (05(3	
= 51 0050	
6 Z: X2 + 3y2	
	sen(t)3+3(as(t)3
y= cos t ot	5011(1) 505(1)
7-(0) ~	Substituir
= Sen(t) + 3 cos(t) =	DU2 DU
	Do Of,
= 3.2(05(1)/2 ((05(1))	770 VI
DE	U: (05f)
= b (05(t)/D (cos(t)))	D= U2-8 BU
Of	Ot.
= - (a (t) Sen(t) b(05(t)	
Ot	Substituit
= -1. b(05(t) 5en(t)	0005(1) 00
=-b(05(t)5en(t)	on of,
- 0002007-1107	
	U= t
	0 = (05(u) -6 - Sen11
Боном і	

	Supplifult	
- 1 (1) con(1) & 600 (1)2	DU2 DU	10
= - b cos(t) sen(t) + sen(t)	DO 04	
= $2/2$ (sen(t)) sen(t)	VV VE	-
07	U=Sen(t)	
= cos(b) (o (t)) a sen(b)	0 (03) = 30	
(Dt	100 - 100	112
= 1 2(a5(t) 5a(t)		
= 2 Cas(t) Sen(t)	Supstituit	
= - bCOS(£1 Sen(£) + 2 COS(£) (SON(£))	0 500(1) 00	
= -4cos(+) sen(+)	ou of	
	U= Sen(t)	
	n (sen(u)):	(00
11/2	DV	1
	45	
	1102 1 1/2 41	
0 = [n(1+x1+y2)	183	
x= 5en 3t	V 200 100 100 100 100 100 100 100 100 100	-
Y= (05 3t	1.7	
$02 = \ln(1+x^2+y^2)$	-/	
Of = M(1,X,1)	1-	
$= \ln (1 + 5 \ln(3 + 1)^2 + (05(3 + 1)^2)$		
= 0		

T

/ /	Seg Ter Qua Qul Sex Sáb Dom
0 0 x= = 2+ 3E (E-3+)+	3 2F (P3+)
x-24 3x	34
(B) X= 4en(3t) = 3 (05 3t DE (X)	1-2 sen 2t 2t (XX)
y = cos(2E) 3x	91
9 F(t, 2F) = t-3F 2F 2F (t, 2t)	+2 DE (f3,241-3f2-3
9%	- 37
(1) (3) (3) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	o t
= 2t 2F (X,Y) + (05 t 2F (X,Y)	
3x, 3x3x	
12 -	
(3t, 2t)	
= 3t2 9E (3t, 2E+ f3. 3 9E	(0) 01)+0730 (38761)
= Dr 9/ (24/34, 12) 3 9/	
(G(t) = 2 (12, 2t) + 5 2 (Ser	n 3t,tl
9x 9x	1 02000 01 11 4
	105 3+ 37 (sen 3+, +) +
3x 3x 3x	9X9A
+ 27 (sen 31.1)	
94	
(a) G(t) - (5t, 4t)	

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9	g Ter Qua Qui Sex Sáb Dom	
>	G'E) = 5 2F (X,Y) + 4 2F (X,Y)	
3 _	9x 9x	
) –) –	G"(+)= 2527 + 40 37 (xx) + 1637 (xx)	
-	9X, 9X3, 9X3	
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