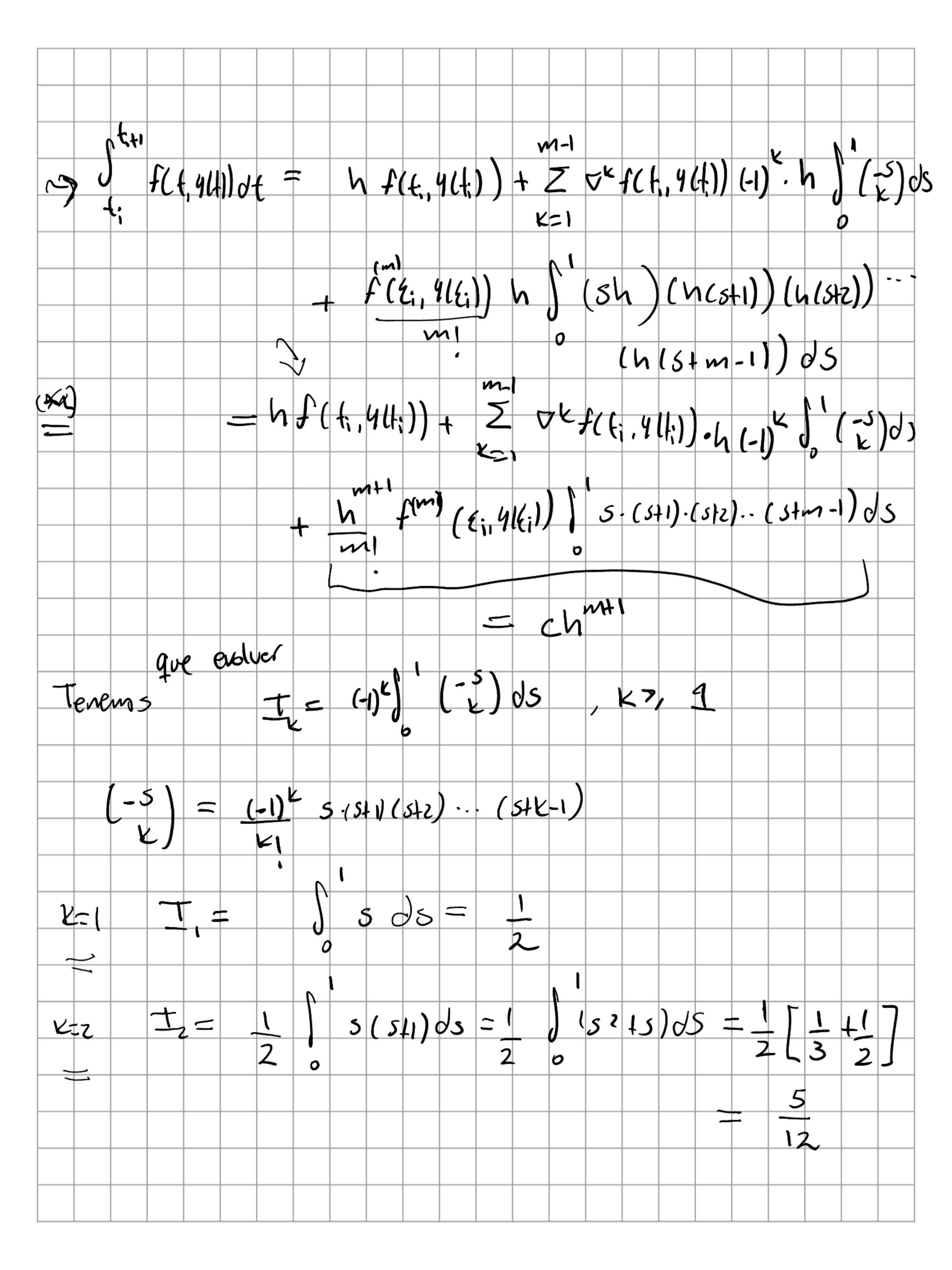
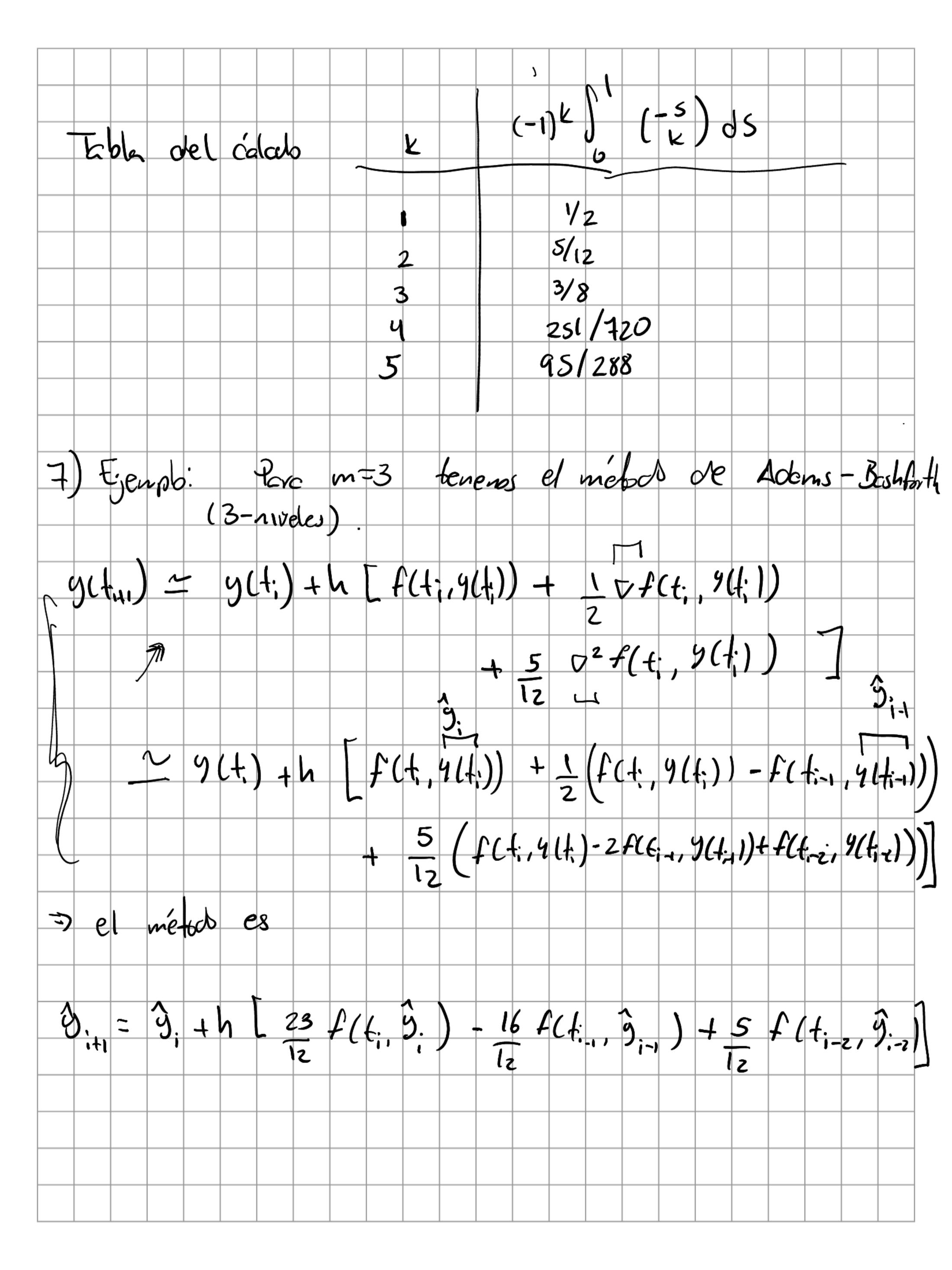
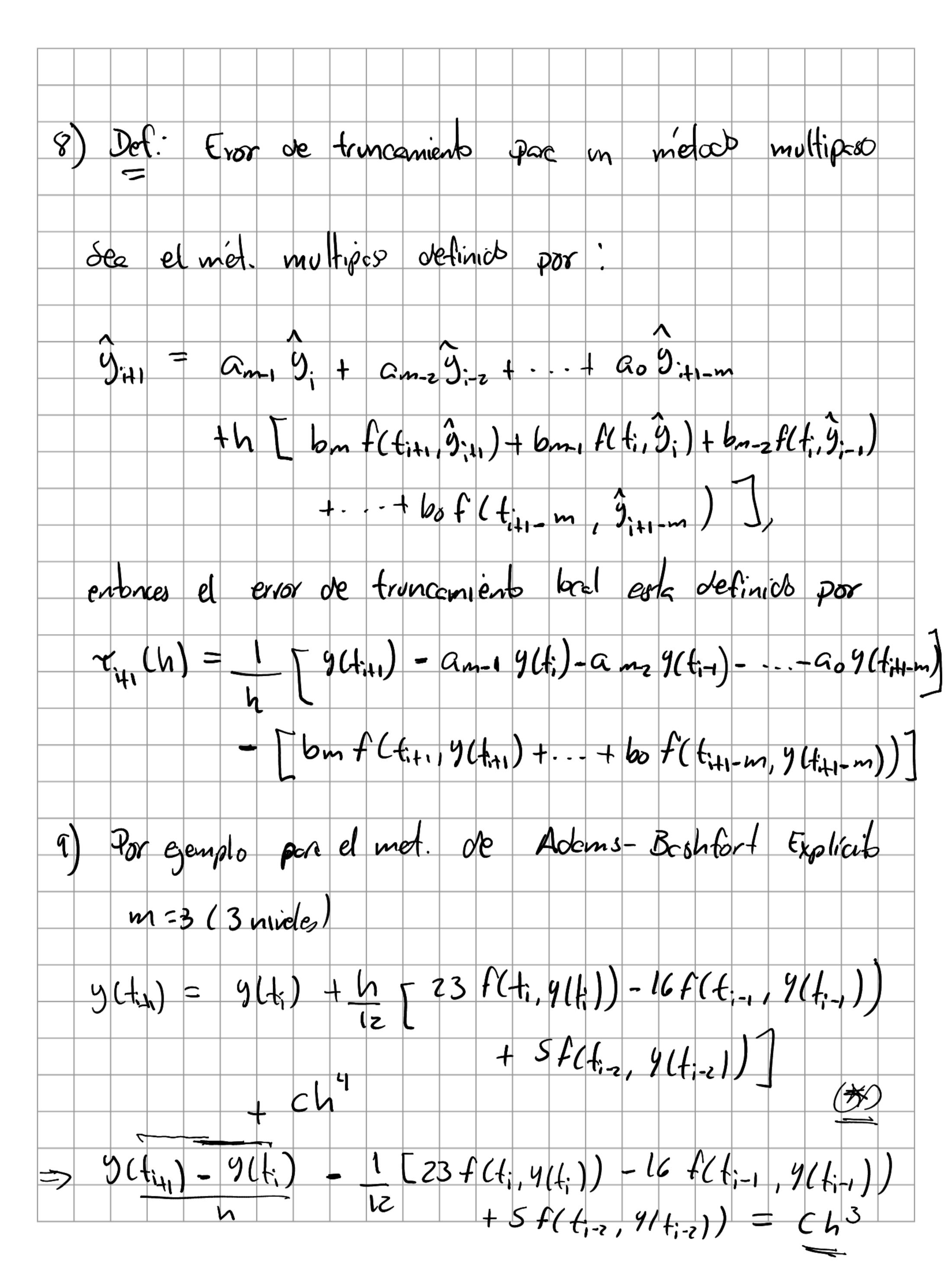


x = xn + 5h, s es in entero positivo entonces se define $P_{n}(x) = f(x_{n}) + (-1)'/-5) \nabla f(x_{n}) + (-1)^{2}(z) \nabla^{2} f(x_{n})$ $+ \dots + (-1)^{n} \left(-\frac{5}{n}\right) \nabla^{n} f(\chi_{n}) = f(\chi_{n}) + \frac{2}{n} (-1)^{k} \left(-\frac{5}{k}\right) \nabla^{k} f(\chi_{n})$ \ = (-1) K S (S+1) (S+2) ... (S+K-1) K7, 1 5.11) Teorema de interpolación polinomial por diferencias atrasados Seen los (141)-prodos Xn, Xm, ..., X, Xv equistantes distribus y protenedos y sea f E CM [a,b]. Entonces para $x = x_{n+1} + 5h$, $5 \in El^+$, $h = x_{n-1} = ... = x_{i-x_0}$ 2 Etabl existe a Etabl tal gre $f(x) = P_n(x) + \frac{f^{(n+1)}(\xi)(x-x_0)(x-x_1)\cdots(x-x_n)}{(n+1)!}$

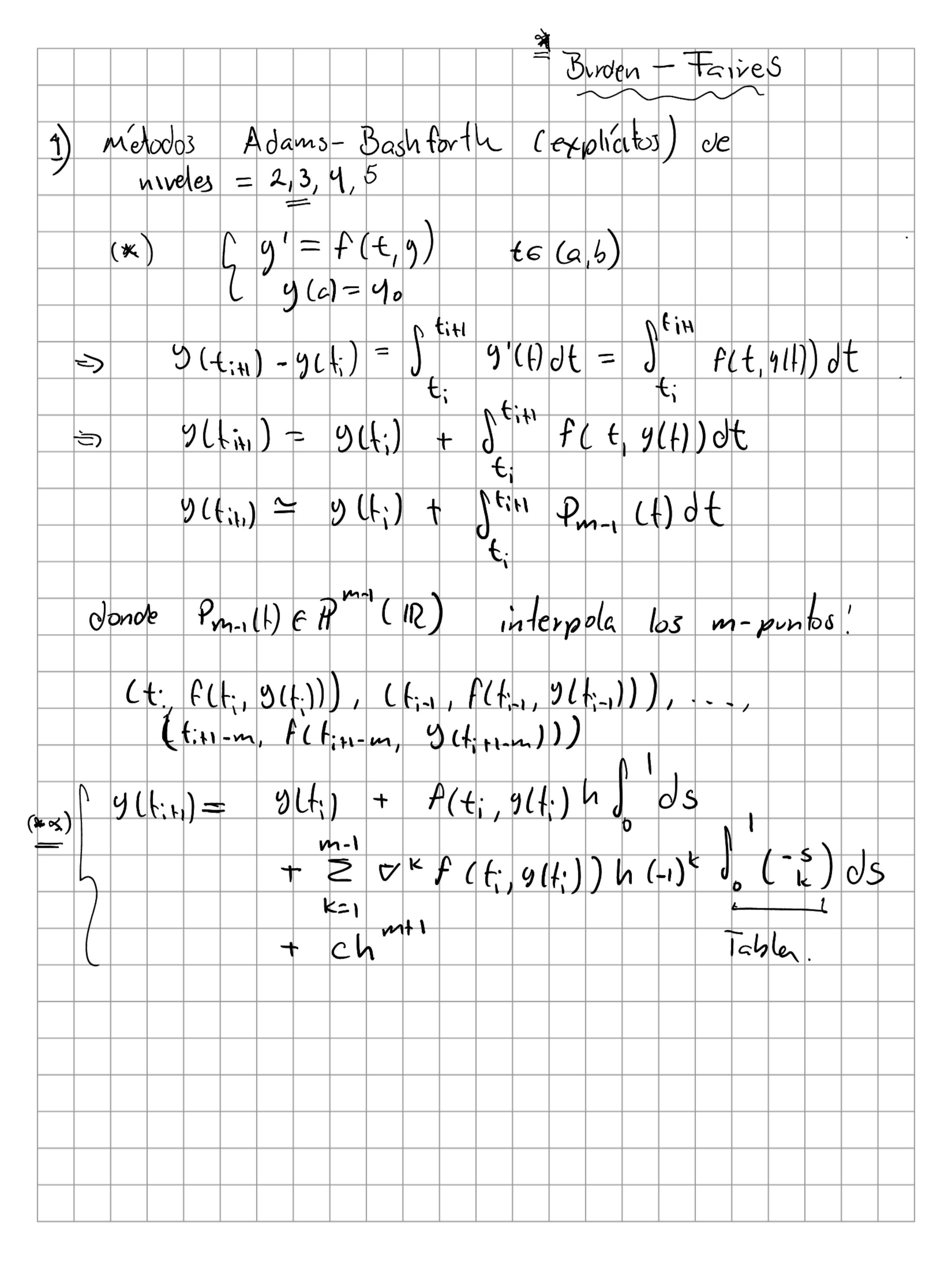
6) Reg	esando	al	poblem	e de	9 0	iproyin	1C(;				
	y (4;	,,) =	y(4i)	+! + } + \}	7	F(+, 50	4))dt				
Indoo	veiendo	(e	sustitu	cwn	t	= (i	+ 5 h	3	dt	= hd	5
	J +:+1		1(L))dt =	<i>\\</i>		f(t;					
					t c	\t:+1 \{\	m-1 Z (,	- 1) ^K	(- <)	V f(f:, y(f,)) of
				3	nti.	T m	(E;,	9(21))(t-	t;)(+-1	(i.))))))
		h	f (+, , y	(4))	+	M-1 Z K=1,	(-1) ^k	V14	f (+;	, 4(f.))	1title (-5)
		+	f(m)(٤; , 912 m 1	(1)	fti.	*I (- (;) (/-{{ ;	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	(+ - +. + + 1
Hacew	os el	Cam	bis de	Vaid	sble	£.	(; = (; =	5h	+ +; -	- -	54+4
					\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	€-€	; - Z	54-	H- 	t;-2	h/5+1)
								5h	+ + h	! ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・	f., = fi-2 h (5+2)







									7									
	b	2=	2	3,	<u></u>	, =		16	/	bo	5	<u>5</u>						
							3											
->>		7., ₁	th)=		Chì #	*											



1i)
$$m=2$$
 . Dad \hat{y}_0 , \hat{y}_1 . \hat{y}_1 . \hat{y}_2 . \hat{y}_1 . \hat{y}_2 . \hat{y}_3 . \hat{y}_4 . \hat{y}_5 . \hat{y}_6 . \hat{y}

				. , ,		
2)	Métodos	de multi	pro imp	olicitos ob	Acoms.	- Moulton
	(f;t)	= 9(f;)	+) (1+1	t, y (t)) d {		
			E;			
	•	= 4 (+1)	titi D	16124		
			† J !.	n(t)0C		
Pn	(f) 6 Pm	(m) gu	intorp	0./a (m+1)-punta	35
		() () () () () () () () () ()	111/4	101. U		
	Ctiv, T	Ctiti, &Cti		7 TC+; 7	(1) J	
	(f;+1-n	r, f(ti+1-1	m, 9 (tix	1-m)).		
2:						
2.i)	m=2.	Dacos	90,9,			
	8) 11 =	· 5; + 1	1 5 f (tit, 3;1,) + 8 f ((t: , 9)
		1	2 L	- 11	<u> </u>	1
	T;+1 (h) = ch	3	1 1 7	1+1 / 3+1 /	131, N
2.ii)	m=3.	Dalbi)0,.,y ₂			
\rangle \gamma_1	;h) = 0,	4 h [0	î f (t; +,)	3;4) + 1	9 + (+; , 4)	
		241				
			-5 f(f	;-1, 9;-1)	+ F(+;	-\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
	~, _{'-1} =	ch				

2	iii		v	V= 4	4		ر	bs.		へ いっ			4,									
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	4 ,℃			ي ا	+	12c		~(بد ر	C7	ì+1	, 5	<u>`</u> +\	J .	t 6	, 96	, f (1:	, ^y			
								•	- 2(64	f (-	€ 1~1	, 0);-1) .	+ 1	O6 1	f (t	ĵ-7	, ŷ.	-ι)	•
									-	19	f (t:-	، ر3	ე ე;.	3)	1						
	Î	ihi	(h) =	C	n																