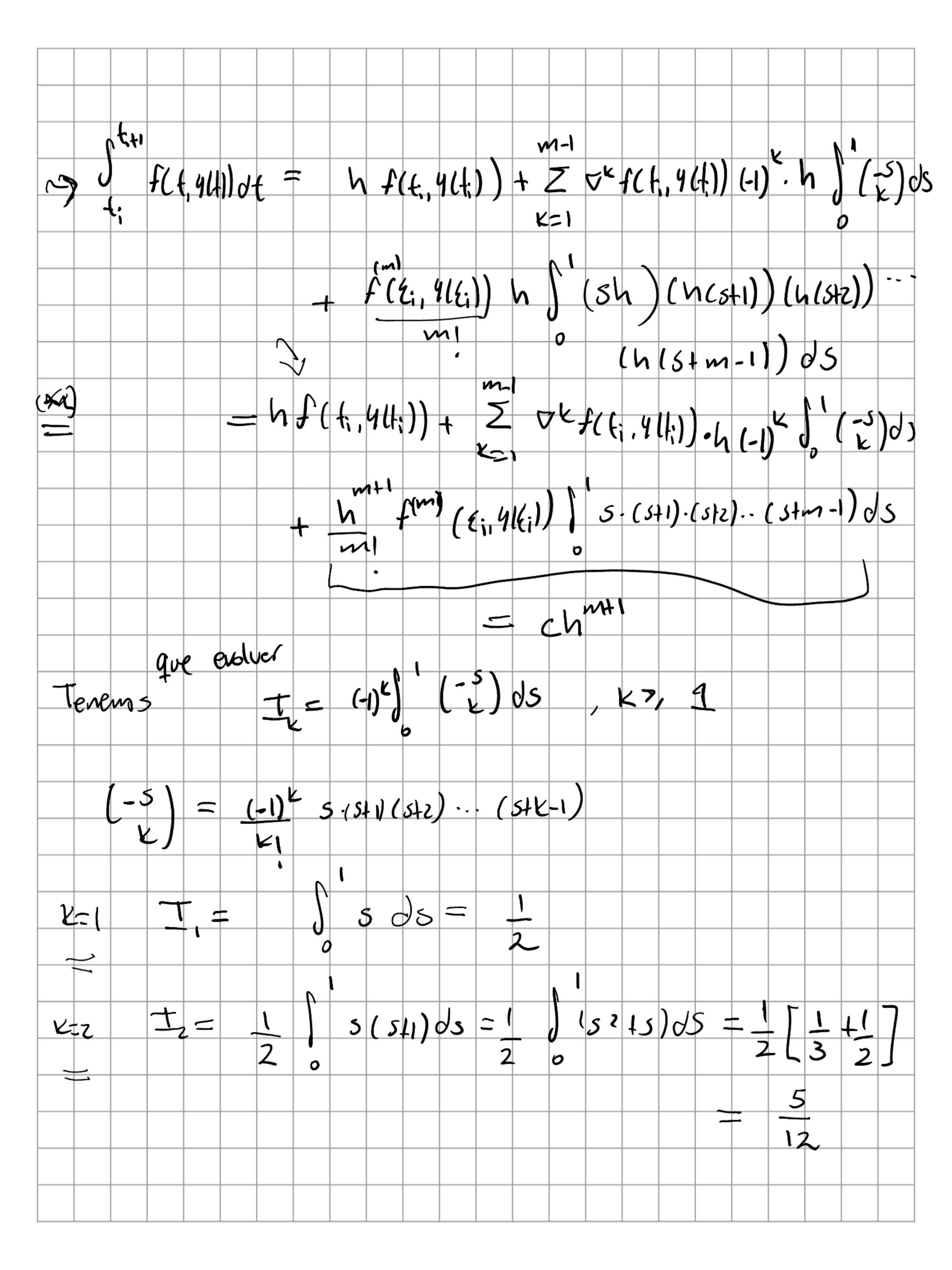
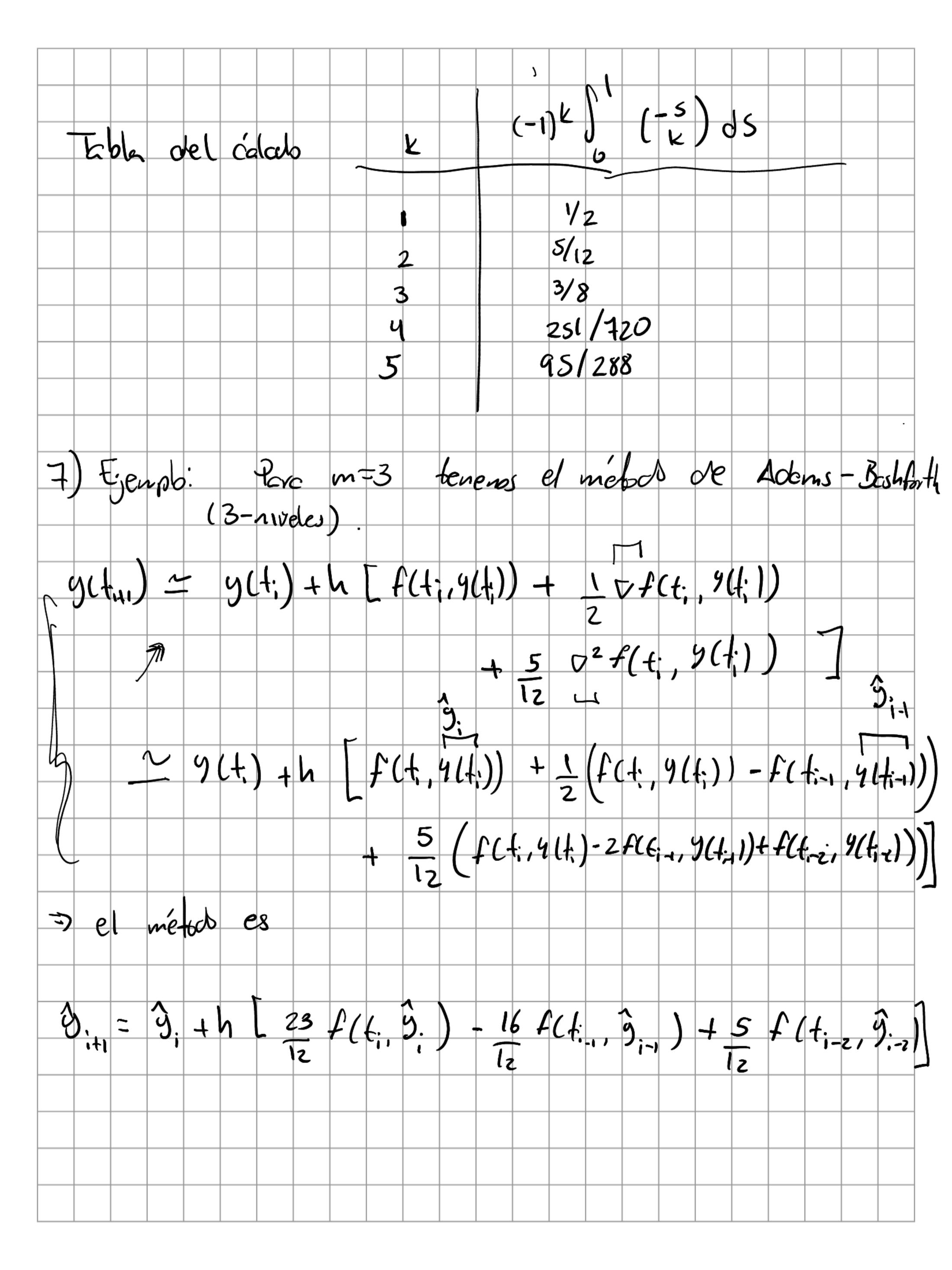
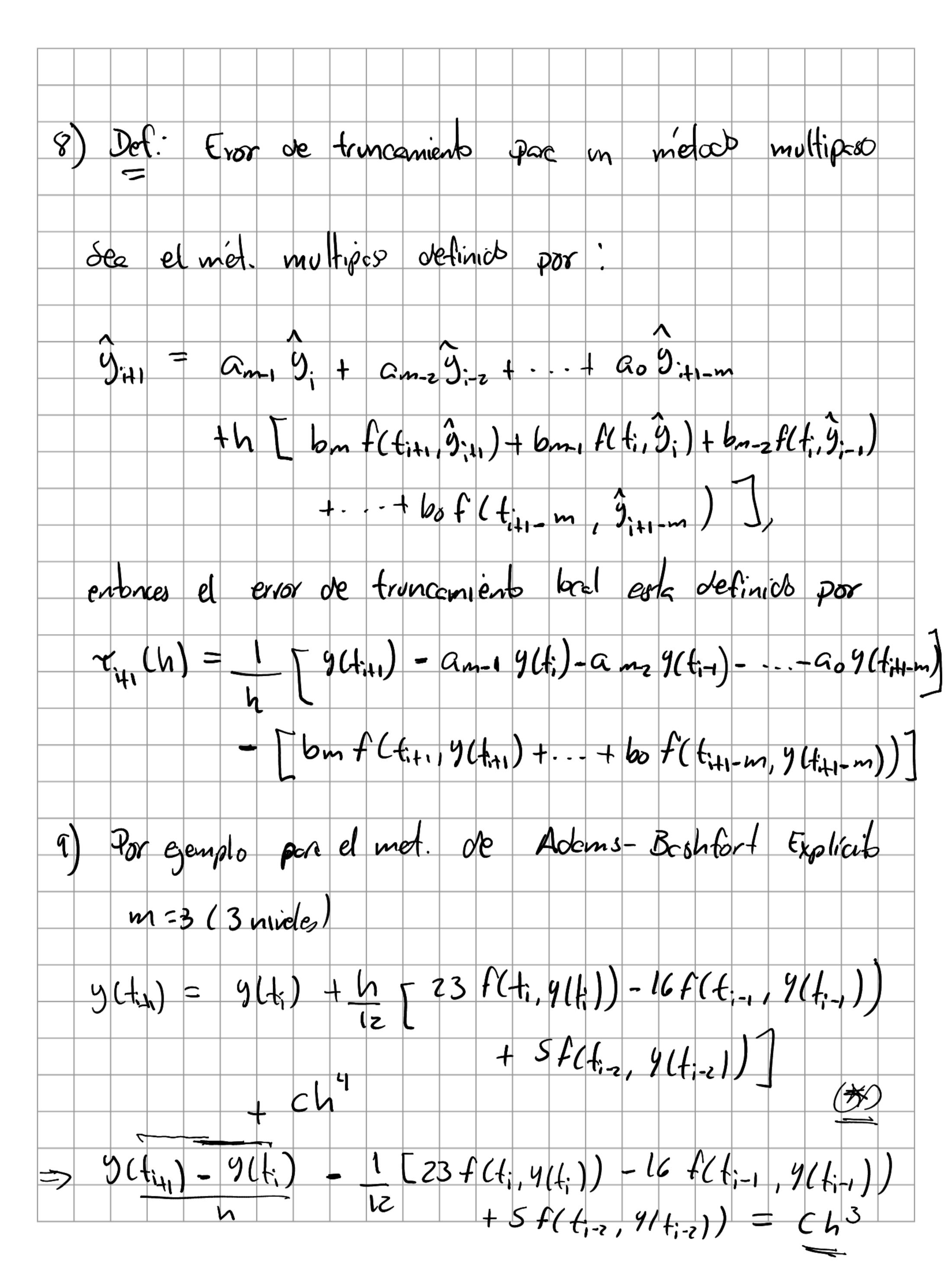


x = xn + 5h, s es in entero positivo entonces se define $P_{n}(x) = f(x_{n}) + (-1)'/-5) \nabla f(x_{n}) + (-1)^{2}(z) \nabla^{2} f(x_{n})$ $+ \dots + (-1)^{n} \left(-\frac{5}{n}\right) \nabla^{n} f(\chi_{n}) = f(\chi_{n}) + \frac{2}{n} (-1)^{k} \left(-\frac{5}{k}\right) \nabla^{k} f(\chi_{n})$ \ = (-1) 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(; | | | | |
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| | 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 (, | - I) ^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) |
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