INTEGERCED NEWTON - COTES

$$k = 0 : \begin{pmatrix} \Lambda \\ 0 \end{pmatrix} = \frac{\Lambda l}{0!(\Lambda - 0)!} = 1 \qquad ; \quad \Delta^0 + 0 = +0$$

$$k=\Lambda: \begin{pmatrix} \Lambda \\ \Lambda \end{pmatrix} = \frac{\Lambda!}{\Lambda!(\Lambda-\Lambda)!} = \Delta$$
 ; $\Delta'_{1} = A_{1} - A_{0}$

$$k=2:\binom{\Lambda}{2}=\frac{\Lambda^{\frac{1}{2}}}{2!(\Lambda-2)!}=\frac{1}{2!}\Lambda(\Lambda-1)$$
 j. $\Lambda^{2}+0=+2-2+n+10$

$$k = 3: \begin{pmatrix} A \\ 3 \end{pmatrix} = \frac{A!}{3!(A-3)!} = \frac{1}{3!} A(A-1)(A-2); \quad \Delta^3 + 0 = +3 - 3 + 2 + 3 + 4 - 4$$

$$k = 4 : \binom{n}{4} = \frac{n!}{4! (n-4)!} = \frac{1}{4!} n(n-1)(n-2)(n-3);$$

INTAGROCA NEWTON - COTES FLOSOFIS FROMOND - GROW 4 h = Ax h 5 g(s) ds 20 = 10 = 10 = 10 (+1-10)+ 1 0 (0-1) (+2-2+1+10)+ 1 0 (0-1) (0-2) (+2-3+2+3+1-10) +1 n(n-1) (n-2) (n-3) (+1-4+3+6+2-94n+10) $g(s) = \int_{\mathcal{D}} \left(A - b + \frac{1}{2!} (s-1) - \frac{1}{3!} h(s-1)(s-2) + \frac{1}{4!} h(s-1)(s-2)(s-3) \right)$ $+ + 1 \left(n - \frac{7}{2!} n(n-1) + \frac{3}{2!} n(n-1)(n-2) - \frac{4}{4!} n(n-1)(n-2) h - \frac{7}{2!} \right)$ $+ + 2 \left(\frac{1}{2!} \Delta(N-1) - \frac{3}{3!} \Delta(N-1)(N-2) + \frac{6}{4!} \Delta(N-1)(N-2)(N-3) \right)$ + 13 (1 0 (0-1) 10-2) - 4 0/0-1/6-2) (6-3)) ++a(1,0(n-1)(n-2)(n-3)) SX= 48) 6/x 2 h 5080 dn = h (+050(1-0+106-1)-10(0-1)6-2) +10(0-1)6-2)(0-3)) do + 405° (0-200-1)+30(0-1)(3-2)-40(0-1)(0-2)(6-3))80 + +25° (1000)-300-1/6-2)+6000-1/6-2/6-3/60 + + 5 5° (20 (1-1) (0-2) - 4 5 (0-1) (0-2) (0-3)) do + + + ((1 0 (n-1) (n-2) (n-3)) ds) = h (14 10 + 64 10 + 8 tz + 64 t3 + 19 14) = 2 h (7/0+32/1+12/2+32/3+7/4)

Sx. 4(x) dx ≈ 2h (7+(x;) +32+(x;+h)+12+(x;+2h)

+321(+1+34)+71(4))

FILOSOFIA ABERTA - GRO 4

$$\int_{x_{i}}^{x_{4}} \frac{1}{1}(x) dx \approx \frac{3}{10} h \left(M_{4}(x_{i}+h) - 194(x_{i}+2h) + 264(x_{i}+3h) - 194(x_{i}+4h) + 114(x_{i}+5h) \right)$$