Notación. tit tiempo i-esimo

titi tiempo i-esimo mas mo

titi tiempo i-esimo mas mo

X:= X(ti): (oovdenada x al tiempo ti

X:+1 = Xt:+1) - (oovdenada x al tiempo ti+1 #=11730 発 我三张二年十二十十二年 EN = 24 (x-11, twent con 18% d' variable made Ph = Em+11 (3:1 (x-1)+1 Forma de Lagrange del residuo Notación



Senic de Jan 30 + E (X') + E (X') (X'+1-X') + E (X') (X'+1-X') + E (X') (X'+1-X') + E (X') (X'+1-X') + E (X') (X'-1-X') + E F(x)=-0.1x4-0.15x3-0.5x2-0.25x+1.2 Predect et valor en Y=1 con h=1 usundo la serie de Taylor de orden 0 hasta 4, y calculando el residado en cada uno Z=0.5 X:-0 hf(X=1) aproximation Rul E=f(1)-aprox -0.97 -0.75 0.95 -0.87 -0,65 -0.35 -0.1 -0.1 F1.7.2 $f'(x) = -0.4x^3 - 0.45x^2 - x - 0.25$ F'(0) = -0.25 F"(X)= -1,2x2-0,9x-1 t. 197 = -1 f"/(x) - - 2.4 x-0.9 f"(0) = -0.9 P.5-=-2.4 t 101 = -5.4 t2 (X) =0 Aproximationes Orden G f11) = 6101=15 F(1) = F(0) + F'(0) 4 = 12 + (-0.25)(1)=0.95 F(1) = F(0) + F'(0)h+ F'(0)h2 = 1.2+ (-0.25)(1)+ (-1)(1)2 = 0.45 F(1) = Orden 2 + = 111 (01/2) = 0.45 + 1-0.4(1) = 0.45-0.15=0.5 FINI = order 3 + FALOSLA = 0.3 + 1-2.411114 = 0.2 X Ermor bet Er orden 0=02-12=-1 Er orden 1=0.2-095=-0.75 ER Order 2 = 0.2 - 0.3 = 0.1 ER Order 4 = 0.2 - 0.2 = 0 R(4=0)===0.91 f(0.5)=-0.97 R(h-11 = -1.75 (1) = -0.87 f"16.51 =-1,75

111/0.51 = -2,1 A.s- -10.01 -2.4