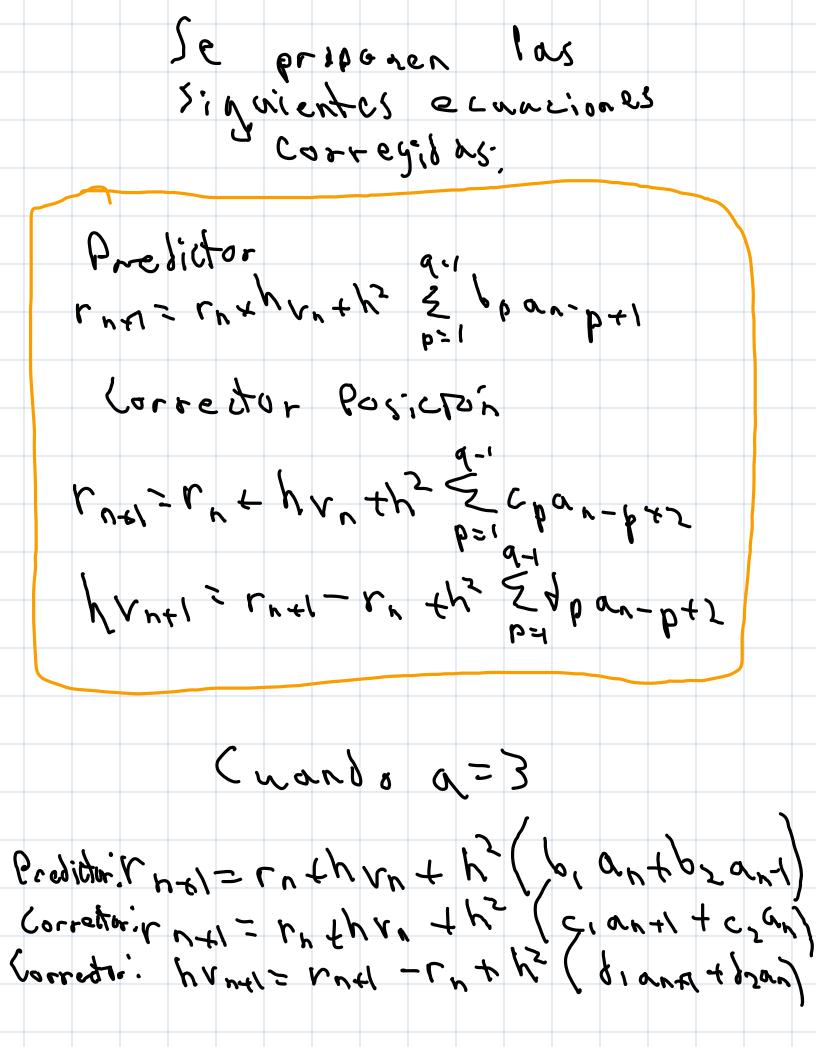
Enel articulo se presentan las signientes ecuaciones:

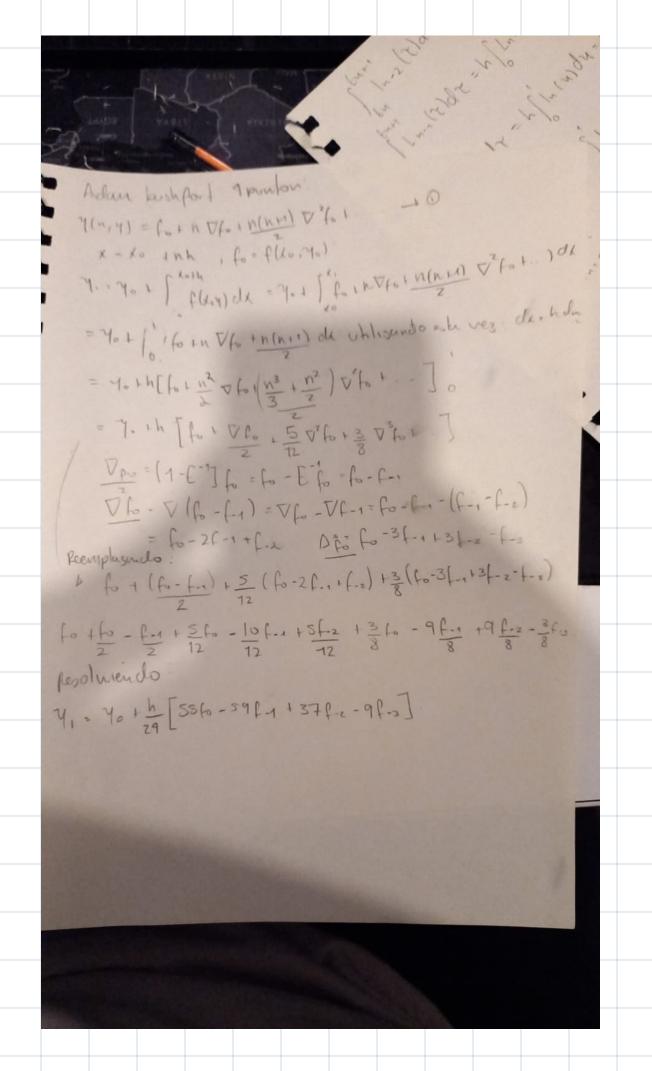
Sinembergo, la 5 e cuaciones tienen un error ya que en la s sumatorius, están terminos anago anagos que dependen de a.

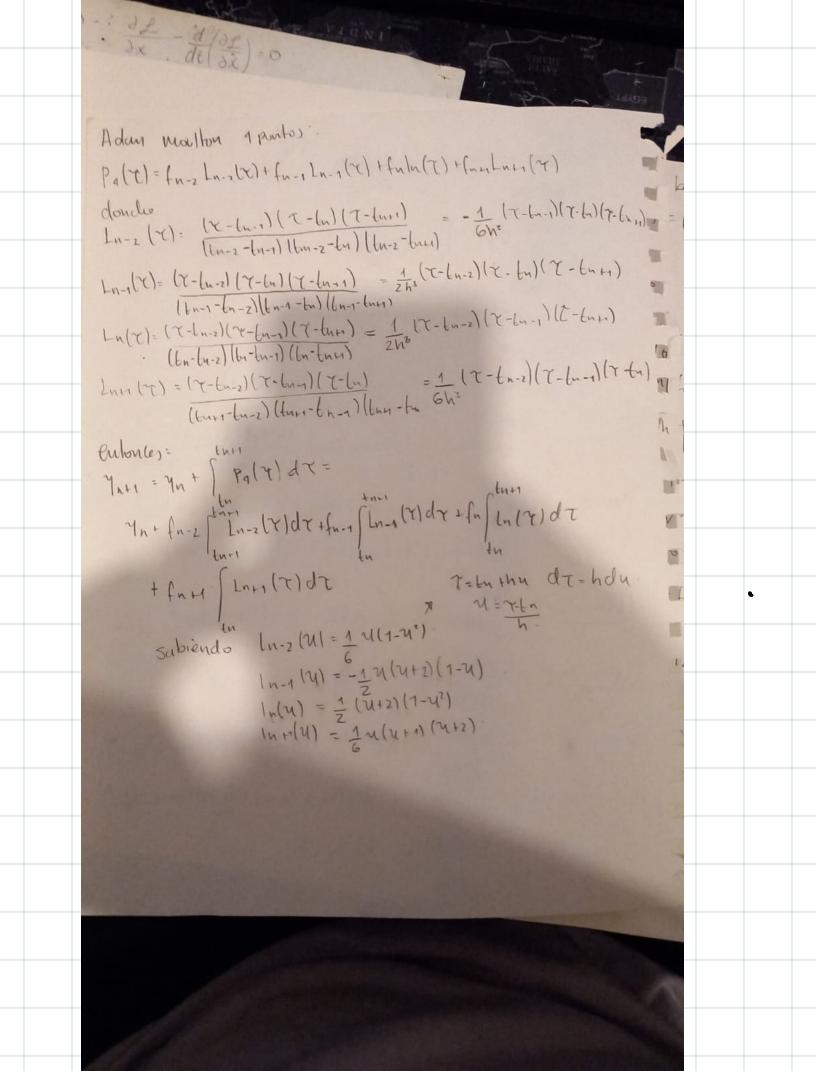


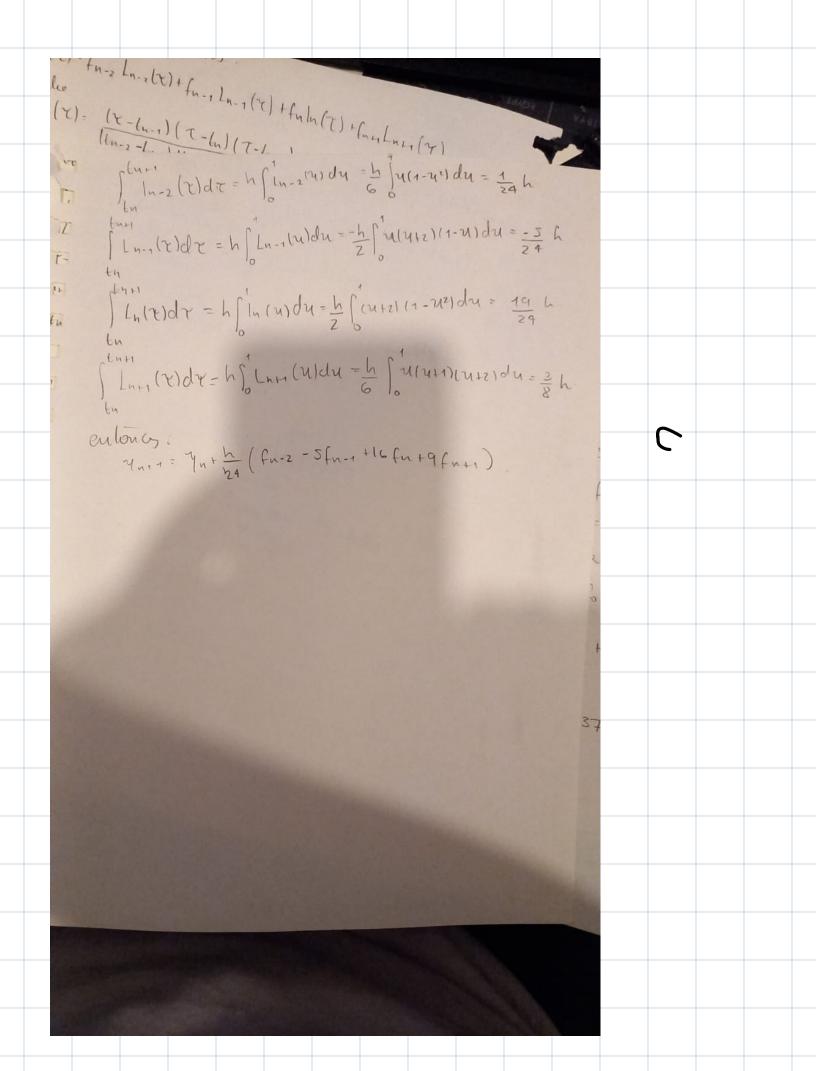
Expandiendo
en Serie de Taylor
con 3 terminos: 1, ve1 = 1, t rup + 1, (p'augrau-1) 14-12 (p. ont/f/04) 11. 2; (c.ont/f-c.on) 64-81- LN + NN + To (counterson) N Vn+1 = h vn+1 + V, (-h) + h? (1, an+1+an) Con es se en une htron los coeticientes

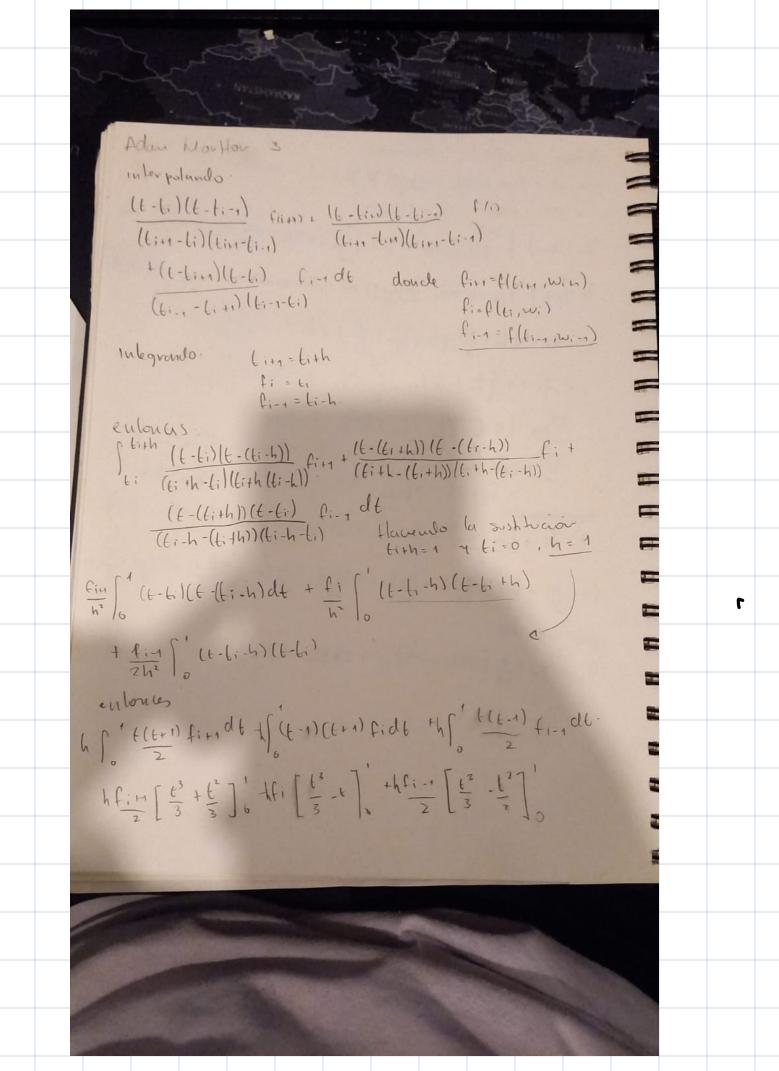
 $\frac{\partial \mathcal{L}}{\partial x} = \frac{\partial \mathcal{L}}{\partial t} - \frac{\partial \mathcal{L}}{\partial t} = 0$ Tanea 41 1 adam bushfort 3 printos 4' = f(z,y) 4 (tuis)= 4 (ta) + ftm1 4 (t) dt entones: A = ftn+1
th y'(t) dt = f(t, y(t)) dt P(t) - f(tn : 7n) (t-tn-2) +f(tn-1: 4.1)

(tn-tn-1)(t-tn-2) Interpolando: (t-tn)(t-tn-2) + f(tn-2, 7n-2) (t-tn)(t-tn-1) (tn-2-tn)(tn-2-tn-1) declucionos que $t_{n-1}-t_{n-2}=t_n-t_{n-1}=t_{n+1}-t_n=\frac{h}{2}$ $f(t_n,y_n)$ $f(t_n)$ $f(t_n,y_n)$ $f(t_n,y_n)$. -f[tn-1, 7n-1) | tn [t-tn][t-tn-z] dt = -4 hf(tn-1, 7n-1) f(tn-2, 7n-2) ftnH (t-tn)(t-tn-1) dt = 3 hf(tn-2, 71.2) entiones A = 23 hf(tn,7n) -4 hf(tn-1,7n-1) + 5 hf(tn-2,7n-2) yltn+1) = yltn)+23 hf(tn,4n)-4 f(tn-1,7n-1)+5 hf(tn-2,7n-2) 7 n+1 = 7 n + h (23 fn - 16 fn-1 + 5 fn-2).









1000 h firt (3) th (-1) th (5 fan + 8 fa - f ynta - 4, + 1/2 (Spnh + 8fn-fn-1)