$$\begin{array}{c} 2.7 \\ \text{S} \\ \text{F}(x) \\ \text{d} \\ \text{X} & \stackrel{\frown}{\times} \\ \text{i=0} \end{array}$$

$$\begin{array}{c} = (\underbrace{x_{-}x_{i+1}}(\underbrace{x_{-}x_{i+2}})(\underbrace{x_{-}x_{i+3}}) \\ + (\underbrace{x_{i}} \\ (\underbrace{x_{-}x_{i}})(\underbrace{x_{i}} \\ + \underbrace{x_{i+2}})(\underbrace{x_{-}} \\ + \underbrace{x_{i+3}}) \\ + (\underbrace{x_{-}} \\ (\underbrace{x_{-}} \\ + \underbrace{x_{i+1}})(\underbrace{x_{-}} \\ + \underbrace{x_{i+2}})(\underbrace{x_{i+2}} \\ + \underbrace{x_{i+3}}) \\ + (\underbrace{x_{-}} \\ (\underbrace{x_{-}} \\ + \underbrace{x_{i+1}})(\underbrace{x_{-}} \\ + \underbrace{x_{i+2}})(\underbrace{x_{i+2}} \\ + \underbrace{x_{i+3}})(\underbrace{x_{i+2}} \\ + \underbrace{x_{i+3}})(\underbrace{x_{i+2}} \\ + \underbrace{x_{i+2}})(\underbrace{x_{i+2}} \\ + \underbrace{x_{i+2}} \\ + \underbrace{x_{i$$

$$\begin{array}{c} \begin{cases} x_{i} + 3 \\ x_{i} \end{cases} & \begin{cases} x_{i} + 3 \\ x_{i} \end{cases} & \begin{cases} x_{i} + 3 \\ (x_{i} - x_{i})(x_{i} - x_{i+2})(x_{i} - x_{i+3}) \end{cases} & f(x_{i}) + 1 \\ & (x_{i} - x_{i})(x_{i} - x_{i+2})(x_{i} - x_{i+3}) \end{cases} & f(x_{i} + 1) + 1 \\ & (x_{i} - x_{i})(x_{i} - x_{i+1})(x_{i} - x_{i+3}) \end{cases} & f(x_{i} + 2) + 1 \\ & (x_{i} - x_{i})(x_{i} - x_{i+1})(x_{i} - x_{i+3}) \end{cases} & f(x_{i} + 3) \\ & (x_{i} - x_{i})(x_{i} - x_{i+1})(x_{i} - x_{i+3}) \end{cases} & f(x_{i} + 3) \end{cases} &$$

$$I = \int (x-a)(x-b)(x-c) dx$$

$$I = \int (x-a)(x-b)(x-$$

$$[(on \ esto, \ x \ eempla \ zando \ en \ las \ integrales$$

$$[(x)] [(x-x;-1)(x-x;0)(x-x;0)^2 - (x-x;1-3)^4 + (x+3+x+1+x+1) + (x+2)(x-x;1-3)^4]$$

$$[(x-x;-1)(x-x;0)^2 - (x-x;1-3)^4 + (x+3+x+1+x+1) + (x+2)(x-x;1-3)^4]$$

$$[(x-x;-1)(x-x;0)^2 - (x-x;1-3)^4 + (x+3+x+1+x+1) + (x+2)(x-x;1-3)^4]$$

$$[(x-x;-1)(x-x;1-3)(x-x;0)^2 - (x-x;1-3)^4 + (x+3+x+1+x+1) + (x+2)(x-x;1-3)^4]$$

$$[(x-x;-1)(x-x;1-1)(x-x;0)(x-x;0)^2 - (x-x;1-3)^4 + (x+3+x+1) + (x+2)(x-x;1-3)^4]$$

$$[(x-x;-1)(x-x;1-1)(x-x;0)(x-x;0)^2 - (x-x;1-3)^4 + (x-x;1-3)$$

(on 11 m15m0 proceso en las integrales se $I_2 = 9/8 + (x_1+1) h$ In= 9/8 f(xi+2)h Iy-3/8 f(xit3)/ remplazando en la ecración original $\int_{3}^{3} (x) dx = \frac{3}{8} f(x_{i}) h + \frac{9}{8} f(x_{i+1}) + \frac{9}{8} f(x_{i+2}) + \frac{3}{8} (x_{i+3})$ $= \frac{3h(f(x_i) + 3f(x_{i+1}) + 3f(x_{i+2}) + f(x_{i+3}))}{8}$