Pol. de (newton para (ratores logic.)

$$f(x)$$
 +  $\frac{1}{2}x_0$  (x-x0) +  $\frac{1}{2}x_0$  (x-x0)(x-x1) + ... +

 $\frac{1}{2}x_0$  (x-x0)(x-x1)... (x-xn1) +  $\frac{1}{2}x_0$ 
 $\frac{1}{2}x_0$  (x-x0)(x-x1)... (x-xn1) +  $\frac{1}{2}x_0$ 
 $\frac{1}{2}x_0$  (x-x0)(x-x1)... (x-xn)

 $\frac{1}{2}x_0$  (x-x0)(x-x1)... (x-xn)

 $\frac{1}{2}x_0$  (x-x0)(x-x1)... (x-xn)

 $\frac{1}{2}x_0$  +  $\frac{1}{2}x_0$ 

$$\lim_{x \to + \infty} (x_0 + x_0) = \int_{x_0}^{x_0} (x_0) + \int_{x_0}^{x_0} (x_0 + x_0) = \int_{x_0}^{x_0} (x_0 + x_0) = \int_{x_0}^{x_0} \int_{x_0}^{x_0} (x_0 + x_0) = \int_{x_0}^{x_0} \int_{x_0}$$

Enor regla del Tropecio

$$\begin{cases}
X_1 \\
E_1(x) dx = \int_0^1 E_1(x_0 + sh) h ds = \int_0^1 f''(x) h^2 s(s-1) h ds \\
x_0
\end{cases}$$

$$E_{trap} = h^3 \cdot \frac{f'(\bar{x})}{2!} \left[ \frac{s^3}{3} \right|_0^1 - \frac{s^2}{2} \Big|_0^1$$

$$\frac{1}{3} - \frac{1}{2} = \frac{2-3}{6} = -\frac{1}{6}$$

Etrop = 
$$-\frac{f''(\bar{x})}{12} l^3$$

Regla de Simpton. 
$$(3 \text{ peutos}) = P_2(x)$$
  $(3)$ 

$$\begin{cases}
\chi_2 \\
\chi_3 \\
\chi_4 \\
\chi_5 \\
\chi_6 \\$$

Error de Sempson.

$$E_{2}(X_{0}+Sh) = \frac{\int_{0}^{M+1} (X_{0})}{(M+1)!} Sh. h(S-1). h(S-2).$$

$$\int_{0}^{2} E(x_{0}+sh) h ds = \begin{cases} 2 & \text{f}(\bar{x}) & \text{f}(\bar{x}) & \text{f}(s-2) \text{ ds.} \\ \frac{5(s-1)(s-2)}{3!} & \frac{5(s-1)(s-2)}{5^{3}-25^{2}-5} & \text{flow} \\ \frac{5(s-1)(s-2)}{5^{3}-25^{2}-5} & \text{flow} \end{cases}$$

$$\bar{E}_{simp} = \frac{f(\bar{X})}{3!} \ell^4 \left[ \frac{5^4}{4} \right]_0^2 3 \frac{5^3}{3} \left[ \frac{2}{4} \frac{5^3}{3} \frac{35^2}{2} + 25 \frac{5^3}{2} \frac{5^3}{2} + 25 \frac$$

$$\int_{0}^{2} \int_{\frac{1}{2}}^{\frac{1}{2}} \int_{0}^{5} \frac{5(5-1)(5-2)(5-3)}{(5^{3}-35^{2}+25)(5-3)} d5$$

$$\int_{0}^{4} \frac{5(5-1)(5-2)(5-3)}{(5^{3}-35^{2}+25)(5-3)} d5$$

$$\int_{0}^{4} \frac{5(5-1)(5-2)(5-3)}{(5^{3}-35^{2}+25)(5-3)} d5$$

$$\int_{0}^{4} \frac{5(5-1)(5-2)(5-2)(5-3)}{(5^{3}-35^{2}+25)(5-3)} d5$$

Esite = 
$$f(\bar{x}) = \frac{15}{5} = \frac{5^5}{5} = \frac{5^4}{4} + \frac{115^3}{3} = \frac{5^2}{2} = \frac{2}{5}$$

$$\frac{32}{5} - \frac{3}{2}, \frac{18}{5} + \frac{11}{3}8 - 3 \cdot 4 = \frac{32}{5} - \frac{36}{5} + \frac{88}{3} = \frac{-4}{15}$$

$$E_{\text{surp}} = f^{\text{II}}(\bar{x}) h^5 \cdot (-\frac{1}{15}) = -\frac{1}{90} h^5 f^{\text{II}}(\bar{x})$$