$$x_{i+i} = x_i - \frac{(x_i - x_{i-1})}{(y_i - y_{i-1})}$$
 ·yi

En kiaili karder

$$F_{m}(m,b) = -2(\sum_{i=1}^{n} x_{i}^{2})_{m} - 2(\sum_{i=1}^{n} x_{i})_{+2}(\sum_{i=1}^{n} x_{i}y_{i})$$

$$F_{b}(m,b) = -2(\sum_{i=1}^{n} x_{i})_{m} - 2(\sum_{i=1}^{n} y_{i})_{b} + 2(\sum_{i=1}^{n} y_{i})$$

$$F(m,b) = \sum_{i=1}^{n} (y_{i} - mx_{i} - b)^{2} + \dots (y_{n} + mx_{n} + b)^{2}$$

Geri Yould Sonly Fork)



merkezi Yonluser × | 4 | 8 2 = 12 | 5

Enterpolesyon

Polinon

$$P_{n}(x) = a_{0} + a_{1}x + a_{2}x^{2} + \dots + a_{n}x^{n}$$

 $P_{n}(x_{i}) = f(x_{i})$

$$\alpha_i = f(x_i)$$

$$a_2 = \frac{x^{5-x_1}}{x^{5-x_1}}$$

$$a_3 = \frac{f(x_3) - a_1 - a_2(x_3 - x_1)}{(x_3 - x_1)(x_3 - x_2)}$$

$$P_{\lambda} = a_1 + a_2(x-x_1) + a_3(x-x_1)(x-x_2)$$

ileri fork tablosuyla (h sabit)

$$P_{n}(x) = y_{0} + \frac{\Delta y_{0}}{1!h} (x-x_{0}) + \frac{\Delta y_{0}^{2}}{2!h^{2}} (x-x_{0})$$

$\frac{\Delta^{11}40}{\Delta^{11}40} \left(x-x_0)(x-x_1)...(x-x_{n-1})$

Lagrange

$$P(x) = \sum_{i=0}^{\infty} L_i(x) \cdot f(x_i)$$

$$L_{i}(x) = \prod_{\substack{J=2\\J\neq i}} \left(\frac{x-x_{J}}{x_{i}-x_{J}}\right)$$

Sayisal Integral

Singesel Hesap ?

S f(x)dx = [I+E+E2...Er]]f(xo)

Dogrusal

$$a' = \frac{x! - x! + 1}{f(x!) - f(x! + 1)}$$

$$a_0 = f(x_i) - a_0 \cdot x_i \quad \text{mile esith}$$

$$m = \frac{f(x_i) - f(x_i)}{x_i + x_i} \quad y = y_i' + \frac{\Delta y_i}{y_i} \quad (x - x_i')$$

Kuadratik (3 noktası be(li)

$$C = \left(\frac{32-31}{x^2-x^2} - \frac{31-32}{x^2-x^2}\right)$$

RIEMANN intograli

$$I = \sum_{x,y} f(x) dx = \lim_{x \to \infty} \sum_{i=1}^{n} f(xi) \left(\frac{xy - xy}{xy - xy} \right)$$

Newton-Cotes integral:

Trapez Kurali(Yamul)

$$\frac{a-b \text{ erasi biline not lavor}}{\sum_{x_1+2}^{x_1+2}} \int_{x_1}^{x_2} \left[f(x_0) + 4fx_1 + fx_2 \right]$$
Si Gift cralle