x: = Vp(x) f(x) y = Vp(x) \$(x)

$$2\left(\sum_{i}x_{i}^{2}\right)\left(\sum_{i}y_{i}^{2}\right)-2\left(\sum_{i}x_{i}y_{i}\right)^{2}\gg0$$

$$\left(\sum_{i=0}^{\infty} x_i x_i\right)^2 \leq 2 \left(\sum_{i=0}^{\infty} x_i^2\right) \left(\sum_{i=0}^{\infty} y_i^2\right)$$

cka

$$\frac{2}{\left(\int_{0}^{\infty} |x_{k}|^{2} - |x_{k}|^{2} + |x_{k}|^{2} - |x_{k}|^{2} + |x_{k}|^{2$$

$$\frac{2}{1 + \ln \left(x_{k}^{2} + 1\right)} \left[Y_{k} - \alpha \left(\cos \left(2x_{k} + 2020\right) + x_{k}^{3}\right) \right]^{2}$$

$$b_{k} = \frac{e^{x_{k}} + 2020}{1 + \ln \left(x_{k}^{2} + 1\right)} \qquad c_{k} = \cos \left(2x_{k} + 2020\right) + x_{k}^{3}$$

$$E(\alpha) = \sum_{k=0}^{\infty} b_{k} \left(y_{k} - \alpha c_{k}\right)^{2}$$

$$E'(\alpha) = \sum_{k=0}^{\infty} b_{k} 2 \left(y_{k} - \alpha c_{k}\right) \left(-c_{k}\right) = 0$$

$$\sum_{k=0}^{\infty} b_{k} \left(y_{k} - \alpha c_{k}\right) \left(c_{k}\right) = 0$$

$$E'(\alpha) = \sum_{k=0}^{\infty} b_k 2 \left(y_k - \alpha c_k \right) \left(-c_k \right) = 0$$

$$\sum_{k=0}^{\infty} b_k \left(y_k - \alpha c_k \right) \left(c_k \right) = 0$$

$$\sum_{k=0}^{\infty} \left(b_k y_{kk} - \alpha b_k c_k^2 \right) = 0$$

$$\sum_{k} b_{k} y_{k} c_{k} - a \sum_{k} b_{k} c_{k}^{2} = 0$$

$$a = \sum_{k} b_{k} y_{k} c_{k}$$

$$a = \sum_{k} b_{k} c_{k}^{2}$$

$$a = \frac{\sum_{k=0}^{1} \frac{e^{x_k} + 2020}{1 + \ln(x_k^2 + 1)} \left(\cos(2x_k + 2020) + x_k^3\right) \gamma_k}{\frac{e^{x_k} + 2020}{1 + \ln(x_k^2 + 1)} \left(\cos(2x_k + 2020) + x_k^3\right)^2}$$

$$\alpha = \frac{(N+1) s_4 - s_1 s_3}{(N+1) s_2 - s_1^2} \qquad \qquad b = \frac{s_2 s_3 - s_1 s_4}{(N+1) s_2 - s_1^2}$$

Zotem
$$S_{1} = \sum_{k=0}^{2} x_{k} = 365$$

$$S_2 = \sum_{k=0}^{7} x_k^2 = 26525$$

$$s_3 = \sum_{k=0}^{2} f(k_k) = 579,5$$

$$S_{i} = \sum_{k=0}^{2} x_{k} f(x_{k}) = 22685$$

2 tego:

$$cl = -0.0799$$
 $l = 67.9593$

$$N+1 = 8$$

$$S_1 = \sum_{k=0}^{N} x_k$$

$$S_2 = \sum_{k=0}^{N} x_k^2$$

$$S_3 = \sum_{k=0}^{N} f(x_k)$$

$$S_4 = \sum_{k=0}^{N} x_k f(x_k)$$

$$y \approx e^{ax+b}$$
 $\ln y \approx ax+b$
 $g = ax+b$
 $y = e^{9}$

$$\alpha = \frac{(r+1)s_4 - s_1 s_3}{(r+1)s_2 - s_1^2} \qquad \qquad b = \frac{s_2 s_3 - s_1 s_4}{(r+1)s_2 - s_1^2}$$

$$l = \frac{5_2 5_3 - 5_7 5_5}{(777) 5_2 - 5_7^2}$$

5,2,3,5 jule v L10.5

$$y = e^{\frac{(r+1)s_{1} - s_{1}s_{3}}{(r+1)s_{2} - s_{1}^{2}} \times + \frac{s_{2}s_{3} + s_{1}s_{5}}{(r+1)s_{2} - s_{1}^{2}}}$$