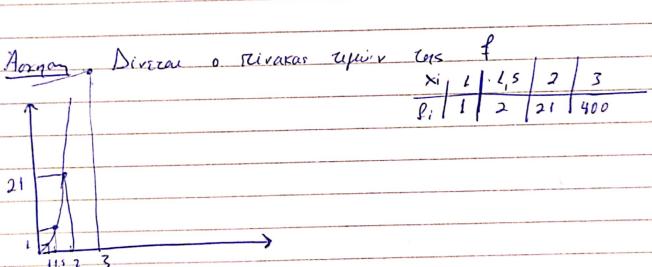
Raparany 10/6/22 Diality 23: Kolicoos 12 Orwers Reovigions -- Elaxiona Terpaziona (Least Square Method) · [KDitiky Roocysion: o y(x1=beax E = 5 (yi - bexi)2 DE = \(\tilde{\gamma}\) 2(yi - b e axi) (-e axi) = b\(\tilde{\gamma}\) e 2axi - \(\tilde{\gamma}\) yi=0 2 = 2 = 2(y; - beari) (-bearixi)=0 => b2 = x; e20xi - b = y; x; e20xi = 0 · y(x) = b xa E = Z (yi - bxia) Of = 2 = (yi - bxia) (-xia) = 0 Da = 2 & (y; - b x; a) (-bx; alnx;)=0 Харог, ры деаррика огострога lny(x) = lnb + ax

Oiw Y = Lny(x)

B = 0 Allows: Y = AX + B/ пропробрего равура ×=X

Ken Exorpe a = A, $b = B \Rightarrow b = e^{B}$ $-y(x) = b \times a$ $-y(x) = b \times a + a + b \times a$ Other Y = lny(x) A = a X = lnx



. Να υπολοχιστεί με ελάχιστα τιτράχωνα η βέλτιση. καμπώλη της φεργής y(x): be^{αχ}

= lny(6) = lnbeax = lny(6) = lnb + ax

Yi = B + axi | one Yi = lnyi6)

B = lnb

Xi | 1 | 1,5 | 2 | 3

Yi | 1 | 2 | 21 | 400

Yi | 0 | 0,693 | 3,045 | 5,99

lnyi

$$E : \underbrace{\xi} \left(V_{1} - \left(B + a \kappa_{1} \right) \right)^{2}$$

$$\frac{\partial \xi}{\partial B} : 0 \Rightarrow \underbrace{\xi}_{2} \left(Y_{1} - \left(B + a \kappa_{1} \right) \right) \left(-1 \right) = 0}$$

$$\Rightarrow \underbrace{\left(\frac{\xi}{2} \times_{1} + 9 B = \underbrace{\xi}_{1} \times_{1} \right)}_{(2)} \left(- x_{1} \right) = 0$$

$$\Rightarrow \underbrace{\left(\frac{\xi}{2} \times_{1}^{2} + B + \underbrace{\xi}_{2} \times_{1} = \underbrace{\xi}_{2} \times_{1} Y_{1} \right)}_{(2)} \left(- x_{1} \right) = 0$$

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$$\Rightarrow \underbrace{\left($$

Eficam Να ξέρουρε όμ χρενάζεται απο τύπους Α.Ο Να τους εφαρμόζουρα σε μη ομορενή δαμάριση; 1. Smiles A. Tear ovo cours f[x2]=-1 $x_0 = 0$ $f[x_0] = -1$ $f[x_0, x_1] = 5$ $f[x_0, x_1, x_2] = -\frac{3}{2}$ $x_1 = 1$ $f[x_1] = x$ $f[x_1, x_2] = 2$ x2=2 f(x2]=4 f [xo,xi]: f(xo)- f(xi) = -1-x = 5 = -1-x=-5= x=4) $f(x_1, x_2) = \frac{x - y}{1 - 2} = \frac{y - y}{1 - 2} = y = 0$ P2 (x) = f[x0] + f[x0, x1]. (x-x0) + f[x0, x1, x2](x-x)(x-x1) + 5(x-0)-3 (x-0)(x-1) nooder on prio X3 = 1,5 (accorner, oùte consixor ours diotetaxusvo) $\frac{\langle x_0 \rangle_{0}}{\langle x_1 \rangle_{1}} = \frac{\{[x_0, x_1] \rangle_{1}}{\{[x_1] \rangle_{1}} = \frac{\{[x_0, x_1, x_2] \rangle_{2}}{\{[x_0, x_1, x_2] \rangle_{2}} = \frac{3}{2}$ $\frac{\langle x_1 \rangle_{1}}{\langle x_2 \rangle_{2}} = \frac{\{[x_0, x_1, x_2] \rangle_{2}}{\{[x_0, x_1, x_2, x_3]\}} \rightarrow \frac{\{[x_0, x_1, x_2, x_3]\}}{\{[x_0, x_1, x_2, x_3]\}}$ $\frac{\langle x_1 \rangle_{1}}{\langle x_2 \rangle_{2}} = \frac{\{[x_0, x_1, x_2, x_3]\}}{\{[x_0, x_1, x_2, x_3]\}} \rightarrow \frac{\{[x_0, x_1, x_2, x_3]\}}{\{[x_0, x_1, x_2, x_3]\}}$ As joela va quajo со повойниро ра са оприа XI, X2, X3) P3(x1=f2(x) + f[x0,x1,x1,x1,x5](x->)(x-x2) Asxero: Elici)=1 Av felln = fn=f

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