He Gradient $X_{1}(x) = \begin{pmatrix} \frac{\partial x}{\partial x_{1}} \end{pmatrix}$ $\times^{w+1} = \times^w - 3^w \xrightarrow{\chi^w} \chi^w$ Daco In e suficient de mic aturci f(Xm+1) < f(Xm) Cele mei simple feméli i a 2D XTAXA, a>D 16>0 $J(x) = \frac{1}{2}X^{T}(a)X = \frac{1}{2}(a \cdot X_{1} + b)X_{2}$ $\int \int |x| = \left(\frac{\partial x}{\partial x} \right)$ Xm+1 = xw- gw Af(xw) efectueagé Schimbori mori im vorichele Sol. propure: $\left(\frac{1}{a}\right)$ $\left(\frac{1}{x}\right)$ $\left(\frac{1}{x}\right)$ $\left(\frac{1}{x}\right)$ $=A^{-1}A=$ -) dilater cer foctor 10 pr coold -) contractific en foctor 2000 pr coold Gradiental este perpendicular pr lin Newton apriox de gradul minimitem XW+1

Ened Convergence: latte Cen material 0,01 0,000 \ 0,01 Dimensium more: M = costul de stourn al D2/x) este - D'I(x)] [(xi) -) rutoliorue

www. sistum AX=D: mumpy X= mp. linely. linsolve (A,b)

O(n2-7m3) - Nu calculam niciodata inverse de matrici in dimensium mou O(m2) stage O(m3) calul

colubre uni invosse $ACi = e; = \begin{pmatrix} G \\ 1 \end{pmatrix} \rightarrow 1$ Probleme grafice (gaidail 8 -) sistem euc Newson sur de potrote Cosinec de poternitie juti-un midel Dote: (X; 1/1)
polom. moswitori ti sã dipirdo de potom 9 (51) min Z (g(5, xi)-gi) sume de patrote Leost Squalls

mfundin' m (oord in x $\mathcal{L}'(x)$ $\int_{1=1}^{\infty} (x) = \sum_{i=1}^{\infty}$ $\frac{1}{\sqrt{\chi}} = \frac{1}{\sqrt{\chi}}$ L) (doom 71 = 1: 71_m $\int J = 2 \int |x| \cdot \pi$ $\int_{0}^{2} \int_{0}^{1} (x) = \int_{0}^{1} \int_{0}^{1} (x) \int_{0}^{1} (x) dx = \int_{0}^{1} \int_{0}^{1} (x) \int_{0}^{1} (x) dx$ [manplet] Hessian Gauss-Mester $X_{i+1} = X_i - X_i \left(\left[\left[\left[\left(X_i \right) \right] \left[X_i \right] \right] \right) \right)$ ps incompute Harton

23 X ×