gue 2 finoliser. Close 9 (Pi)
Prop. 11. 11 induado vole que 11 A×11 = 11 A1111×11
11 A 11 > Sup     A x
Prop. 11.11 morno unducido, 11 ABII = 11 A 1111011
Numero de Condición  Def: A E R <sup>nxn</sup> inversible, condi(A) = 1/A/1/4 1/A-1/1/4  Def: A E R <sup>nxn</sup> inversible, condi(A) = 1/A/1/4 1/A-1/1/4
Propudader: (1) si lo 11.011 marmo inducida, condita) 2 1
¿ Por que sure?
Sup que guero resolver Ax = 50 ellonge à aprisernoción mumerico de x ellonge à aprisernoción mumerico de x
Consider $\nabla := 5 - A\hat{x}$ Consider $\nabla := 5 - A\hat{x}$ A $(x - \hat{x}) = Ax - A\hat{x} = 5 - A\hat{x} = 7$
X GALLERY CONTRACTOR OF THE PARTY OF THE PAR

(PL)

pole (texto)

bole (E/12P,2) 1/1x-1x 11 & cond (A) 1/1-11

11-1111 -A 11 = 11x-X 116

11011 = 11x11 = 11x11 = 11x11 = 11x11 = 11011 (0

 $\frac{11 \times -\tilde{\chi} |_{1}}{|_{1} \times |_{1}} \leq \frac{11}{|_{1} \times |_{1}} = \frac{11}{$ 11×11 115/11 = word in 115/11 = 115/11 = word in 115/11 = 115/11

Filos LJ notriz andodo -> investe poo

 $A = \begin{pmatrix} 1.01 & 0.99 \\ 0.99 & 1.01 \end{pmatrix} \qquad b = \begin{pmatrix} 2 \\ 2 \end{pmatrix}$ 

 $\hat{X} = \begin{pmatrix} 2 \\ 0 \end{pmatrix}$ 

 $A \hat{x} = \begin{pmatrix} 2.02 \\ 1.98 \end{pmatrix}$ 

este dele calculane

(00)= (A) & brow

115-Ax1100 = 0,02 > 11-11=001 116110 = 2

 $\frac{11 \times -\overline{\times}11}{11 \times 11} \leq 100.0,01 = 1 \quad (\text{reilevon relotive es a la } 1)$   $\frac{11 \times 11}{11 \times 11} \approx \text{Scpoto} \quad (\text{Socools de la gaba orderate})$   $\frac{(\overline{X} = (1))}{1} \approx \text{Scpoto} \quad (\text{Socools de la gaba orderate})$ 

11x10 = 1(-1,1711 00 = 2 Se oleogo lo co6

con me N

Enlagua: AERAXO I IIAII DE IIAII E VIN IIAII DE

(A) cond2(A) = 1/A/2 1/A 1/2 > 1/A 1/2 / 1/A 1/2 / 1/A 1/2 / 1/A -1/100

=  $\frac{1}{2}$  condo (A) =  $\frac{3}{2}$  + 3 m

(B) cond2(A)=11A112 11A-1112 = VZ 11A11200 VZ 11A-11100

= 2 cond (A) = 6 +12m

 $\frac{1}{3} + 8m = \text{Cound}_{3}(A) = 0 + 15m$ 

Cords (A) to Sy escapasac ca lador Larranos.

A E RAXA somerseble. Cord(A) = INF ( MAII /B siglar) Cord (A) > sup { 11 A 11 / B singular) Estimar b Condiam I (A) arondo & A = (1 1 -1 EZ) 8-30 combin took a O oseo hocendo mos duca se porsee que A en sugulor. 11 A 1/2 = 85 condy (A) = 1/A 1/1 / B singulo ques uno B singula / 1/4/1/2 2000 Co Proponge B= (1-10) debe oseemed que Bas singular

Proponge B= (1-10) debe oseemed que Bas singular

Ellas L3 = 5 memble 11A-B111 = E2+E A-0= (000e2) 1/A/II = 1 = 2 1/A-BIII = 1 = 2+E Cond, (A) = 1/A/11 -> concluse cond(A) ->+00

CamScanner

Sea 
$$\Delta_n \in \mathbb{R}^{n \times n}$$
  $\Delta_n = \begin{pmatrix} 1 & 1 & 1 & 1 & 1 \\ 0 & 0 & 0 & 1 & 1 \\ 0 & 0 & 0 & 1 & 1 \\ 0 & 0 & 0 & 1 & 1 \\ 0 & 0 & 0 & 1 & 1 \\ 0 & 0 & 0 & 1 & 1 \\ 1 & 23 & 1 & 1 & 1 \end{pmatrix}$ 

Probon que la cordinan, (A) =====