$A \sim B$ si $A = C.B.C^{-1}$ con C inv $\Rightarrow \chi_A = \chi_B$ y det A = detB y trA = trB semejorter $\Rightarrow \chi_A = \chi_B$ y det A = detB y trA = trB $\langle A \times, y \rangle = \langle x, A^t, y \rangle | e(A) = |\lambda_1| \ge |\lambda_1| | Unitorionente si C unitarz : C = C | ||C \times ||_z = || \times ||_z$ Schor: A = UTU*, U unitara, T=[] con 2: en diagonal. A Hermitians: Unit. semej. a D diag. Avals eTR. Bon de Avecs. $\|A\|_2 = \ell(A)$ $A = A^*$ SVD: $A = U \cdot \Sigma \cdot V^t$, $U \cdot V$ ortogonaler. $\sigma : \geq 0$. A. $\sigma : = \sigma : M$: $\Delta^t A = V \Sigma^2 V^t \mid A A^t = U \Sigma^2 U^t \mid M$: generadorer de $\Delta^t A = V \Sigma^2 V^t \mid A A^t = U \Sigma^2 U^t \mid M$: generadorer de $\Delta^t A = U \Sigma^2 V^t \mid A A^t = U \Sigma^2 U^t \mid M$: Como (ImA) = Nu At => Predo completor U con Nu At $A^{+} = \hat{V} \hat{\Sigma}^{-t} \hat{U}^{t} | AA^{+}A = A | A^{+}AA^{+} = A^{+}$ AER nxm n>m cols li => A+ = (A+A) . A+ Im A) = Nu At | n detor : grado < n-1 | x = AtbPolide Legrange: $P(x) = \sum_{j=1}^{n} y_j \cdot l_j(x)$ con $l_j(x) = \frac{TT}{TT} (x - x_i) = \begin{cases} 1 \text{ si } x = x_i \\ 0 \text{ si } x \neq x_i \end{cases}$ Here de iter, Métodar Iterativos: Xn+1 = -M'! N. Xn + M'! b Converge Yxo Avals de -M'! N son raices de det (2M+N) | si ((-M'!N) < 1 $e(-M^{-1},N) \leq ||-M^{-1},N|| < e(-M^{-1},N) + \varepsilon$ Jecobi: M = D & N = L + U | G-5: M = L + D & N = U $C_{k} = (-M^{-1}, N)^{k}$. e_{0} $e_{0} = X_{0} - X^{*}$ $\|A\|_{2} = \sqrt{(A^{*}A)^{*}}$