Lab 9 - notite Metoda celar mai mici patrate (4,2) = prod. scalar pt. f zi g (function) 11f-g|| = distanta dente f zi g (normá) $=\langle\langle 4-q,4-q\rangle$ Ex: <fig>= fright...+ fnign = prod. sol. Enclidian 11 f-g1 = 1 (fr-gn)2+ ... + (fr-gn)2 = norma Euclid. \mathcal{E}_{\star} : $\langle f, g \rangle = \int_{-\infty}^{\infty} f(\star) \cdot g(\star) d\star$ M. c. m. m.p. discreta (norma Enclidiana) ? Bankann p polide gr. Ele a.r. 117-p1 = min 11 p de gr. <1

$$p(X) = c_{2} \cdot X^{k_{1}} + ... + c_{1} \cdot X + c_{0} \cdot A$$

$$p(X_{h}) = c_{2} \cdot \frac{c_{1}}{c_{1}} + ... + c_{1} \cdot X + c_{0} \cdot A \approx f$$

$$|c_{1}| + ... + c_{1} \cdot X + c_{0} \cdot A \approx f$$

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Desconyamerea $QR: A \in M_{n,m}(R), n \ge m$, $\exists Q \in M_{n,m}(R), Q = QT, \exists R \in M_{n,m}(R) \text{ triung. superior}$, $R = \begin{bmatrix} 0 \\ 1 \end{bmatrix}^{n}$ $a = \lambda \cdot A = Q \cdot R$. $Q^{T} = Q^{T} = 1 \|Q \cdot v\| = \|v\|_{1} + v \in R^{n}$

. ||A-2-4||=||Q|||=||Q(||Rc-QT-4)||

[[] = \\ [(mt(:n) \]