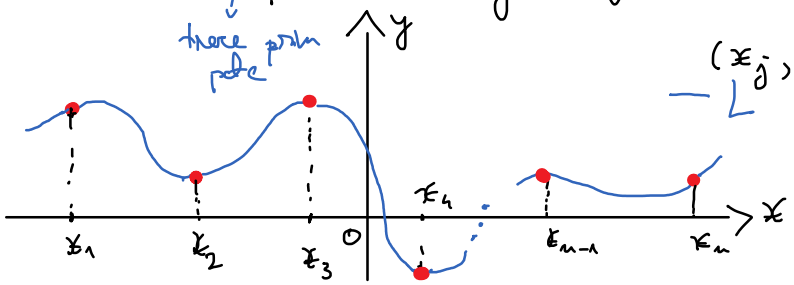
Interpolare Lagrange



there pairs pole (x_j, f_j) — L pol. Lagrange

Input { noduri: $x_1, \dots, x_n$ → distincte
valori: $f_1, \dots, f_n$

- grad L minim
- $L(x_j) = f_j$, $j = \overline{1,n}$
- grad $L \le n-1$
- $L(x) = a_0 + a_1 x + \dots + a_{n-1} x^{n-1}$

$$\begin{bmatrix} 1 & x_1 & x_1^2 & \dots & x_1^{n-1} \\ 1 & x_2 & x_2^2 & \dots & x_2^{n-1} \\ \vdots & & & & \\ 1 & x_n & x_n^2 & \dots & x_n^{n-1} \end{bmatrix}$$

matrice Vandermonde → prob cond. (vezi lab. 3)