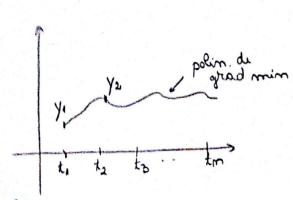
## CURS YI Interpolare



Thebuie na gaisim o fot care trece prim the pet.

Zef Fie [a, WCR, pet X1, X2, ... Xm dist dout côte a dim int [a, W]. The Ji. . Ym eR. Sm polin de interpolare atazat pot x1.. xm si val y1. Ym un by 2 or broker.

1) grad P ≤ m-1

2) P(xi) = yi, ti=1,m IR: Polim de intorpolore exista si este unic.

Forma de reprez.

Form lui dagrange
$$P(x) = \sum_{i=1}^{m} (y_i) \frac{x_i - x_i}{x_i - x_i}$$

Tie f. [a, L] -> R cont. Constr polin

Tie 
$$f: [a, \lambda] \rightarrow \mathbb{R}$$
 comt. Comstr polin:  

$$P(x) = \sum_{i=1}^{m} \left( f(x_i) \right) \left[ \frac{x - x_i}{x_i - x_i} \right) \text{ pol de grad } \leq m - 1, \text{ ou}$$

$$P(x_i) = f(x_i) \neq i = 1, m$$

Form lui Mouton au déforente divièrate Fie [a, W] ⊆ R, XI.. Xm ∈ [a, W] dist 2 côte 2 M o fet f: [a, W] → R and Utam au P(f; X1. Xm; X) polin de interpolare atazat fet f si pet X1.. Xm, adica acel polin ? cu

| grad (p) & m=1
| 
$$f(x_1) = f(x_1) \lor l = i, m$$

What indown in  $f(x_1, ... x_m) = conf lin × m=1 al pain  $f(f_1) \times i... \times i... \times i$ 

the indown in  $f(x_1) \lor l = i, m$ 

the index and for  $f(x_1) \lor f(x_2) \lor f(x_1) \lor f(x_2) \lor f(x_1) \lor f(x_2)$ 

the index and for  $f(x_1) + \frac{m}{m+2} (f(x_1, x_2)) \cdot \frac{f(x_1, x_2)}{m-2}$ 

Therefore:

 $f(f_1) \times i... \times i... \times i... \times i$ 

The day for  $f(x_1) \times f(x_2) + \frac{m}{m+2} (f(x_1, x_2)) \cdot \frac{f(x_1, x_2)}{m-2} \cdot \frac{f(x_1, x_2)}{m-2}$ 

The day for  $f(x_1) \times f(x_2) + \frac{m}{m+2} (f(x_1, x_2)) \cdot \frac{f(x_1, x_2)}{m-2} \cdot \frac{f($$ 

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 $[-p = c_{m}]$ [-pt i = m-1,1], P = P(x-xi) + ci.