## Computational mathematics

Computation. Erron

$$S = \frac{\Delta}{|a|} (a \neq 0)$$
 - relative evvor

Morner's scheme.

$$P(x) = \alpha_0 x^n + \alpha_1 x^{n-1} + \alpha_n$$

$$\alpha_{0,---,\alpha_n} = constant coefficients.$$
(1)

$$P(\xi) = q_0 \xi^{n_1} + q_1 \xi^{n_2} + \dots + q_n =$$

$$= \left( \dots \left( \left( (q_0 \xi + q_1) \xi + q_2 \right) \xi + \dots + q_n \right) \right)$$

$$= \left( \dots \left( \left( (q_0 \xi + q_1) \xi + q_2 \right) \xi + \dots + q_n \right) \right)$$

$$c_n = b_n \xi$$
  $b_n = a_n + c_n$ 

a o 9, 92 .... 8n | 5 bo5 b18 --- bn-18 bo= 80 bn b2 ... bn = P(5) P(x)= 7x 5+3x4+2x3+x2+4x-1 Example 1. x = 2 Solution. 7 3 2 1 4 - 1
14 34 72 146 300 7 17 36 73 150 299 = P(2) P(2) = 299, Input: n, ak, 5 Dutput: P(s) Laboratory work 1. Report #1: word/pdf tile. { 1. coole 2. Ontput 3. Solution by hand