Lokale Polynominterpolation (Hermiteinterpolation) Pi- (vinitina) Gesucht. P(x) = (1 x x x x x x) (c) = (0+(1x+C2x2+C3x3) Biodinum : (x) = (012x32) = (012x32) = (012x32) = · Pi(xin)=(in) [pi'(xin)=0] $\begin{array}{c|c}
(1) & (2) & (2) & (2) & (3) & (4$

Poly nominterpolation

(N-1) It is proposed from Pi+2

Bedinung:
$$p_{i}(x_{i}) = f_{i}$$
 $p_{i}'(x_{i+1}) = f_{i+1}$
 $p_{i}'(x_{i+1}) = f_{i+1}$
 $p_{i}'(x_{i+1}) = f_{i+1}$
 $p_{i+1}(x_{i+1}) = p_{i+1}(x_{i+1}) = p_{i+1$

 $2x_{+1}^{2}$ $3x_{+1}^{2}$ 0 -1 -2 x_{1+1} 1 7/12 3xi2

i+1 fi+2

Kundbedingungen.

1. Vorsøgeben:

Po(xo) = fo

Pn-z (xo) = fn-1

7. Periodisch: $P_{0}'(x_{0}) = P_{n-2}'(x_{n-1})$ $P_{0}''(x_{0}) = P_{n-2}''(x_{n-1})$

S. Natir-lieh: $P_0''(y_0) = 0$ $P_{n=2}''(x_{n-1}) = 0$

Termerasis