Monday, March 29, 2021 2:43 PM

(dog. 43) Si Smillsi Fm $S_{i}(x) = a_{i} + b_{i}(x - x_{i}) + c_{i}(x - x_{i})^{2} + d_{i}(x - x_{i})^{3}$ Si(xi) = f(xi), Si(xi+1) = f(xi+1), i=1, M-1 FE[xi,xix], S: (Xi) = S(X) S((Xi)) = S:(Xi), i = 1, n-2 Number of conditions: 2(m-1)+(n-2)+(m-2)=4M-6 Number of nulsnown coeffs. 4(M-1) = 4M-4 We wed two more conditions: · natural spline: 2 red berivatives at first (pleg load splines) and last modes are D (S"(Fi) = S" (Fin) =0) PP = Csape (nodes, values, variational) · clamped: pp = csape (modes, values, complete, dur-ob) · de Boor: pp=csape (vodes, values, 'not-a-lanot')