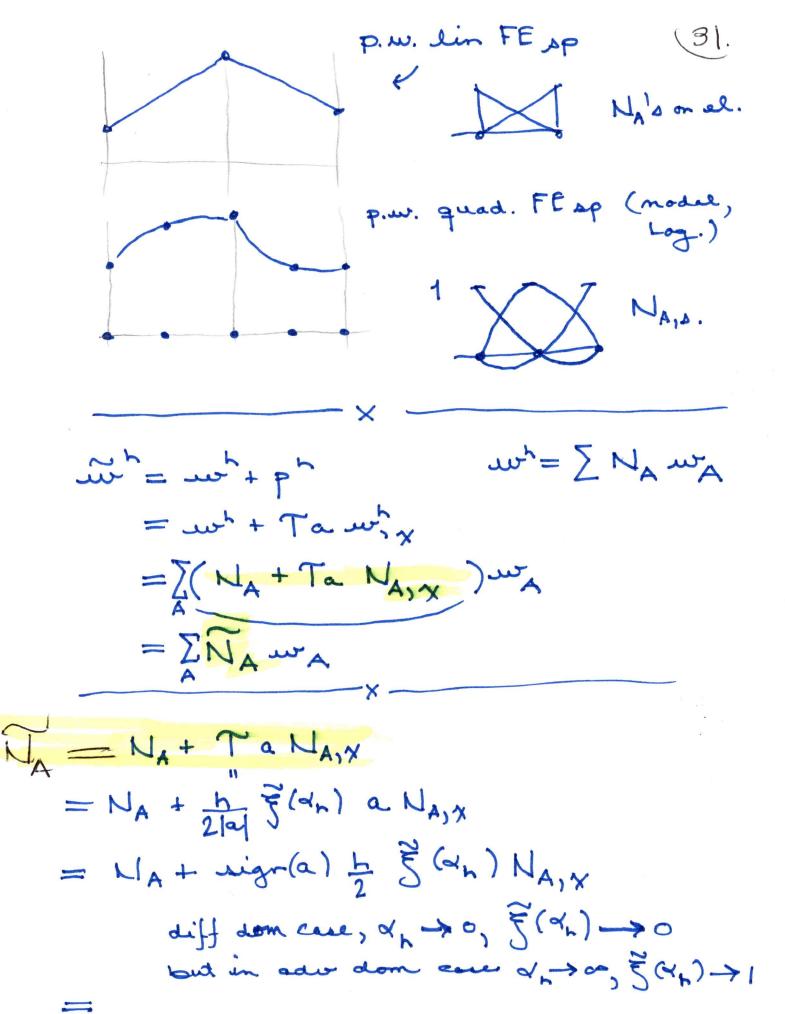
Lecture # 7, Spring 2024, Feb. T. Fact: The modified eq. with x+x+x is not ant aiff. a residual meth. We want to retain the good stab. provided by of, but recapture The residual structure: Petrov- Galerkin meth. Ceauic (Bubmov -) Galenkin meth. Sur (rue (uh)) emanate from the same up. of ftns. (up to BCs) ure sh uh = wh + gir BC. Sach (naget)) むhe でh≠ でh

(3+ ×).w; x (lalh) & (dr) 1 and 1 700. Our P.-G. meth. Find ut & St (as (-wh a mh + wh x mhx

int-by-parts al by al

NA wh + P-G. interp.

A=1 γ_{A-1} A=1 γ_{A-1} $-\sum_{n=1}^{N-1} w^n (x_n) \left[x_n x_n (x_n) \right] = 0.$ candidate ph = Tawh claim $T = \frac{3}{|a|^2} = \frac{1}{|a|^2} \frac{1}{2} \frac{1}{|a|^2} \frac{1}{2} \frac{1}$... + (aut) (aut) - ... Tar why why Si at wing uing interaction of Tawing (... - Xuing - ... 1. For ein FE sp., ut, xx 2. For higher-sixtes order el's, u; xx 70 later, use are saved by "unverse est's"



32. righ (a) (b) 1 NA,1x NA h N 1/2 1 2 weighted 一十五

pidure

SNA f dy interaction w. f

