

$$f_i = \int f \cdot \psi_i dx$$

$f(x_i)$

$$f_h(x) = \sum f_j \cdot \psi_j(x)$$

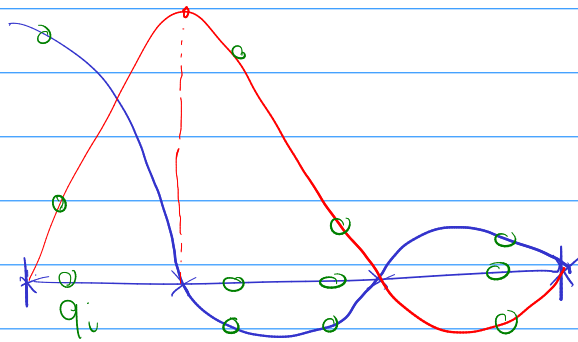
$$= \sum \int \psi_i(x) \psi_j(x) dx \cdot f_j$$

~~17~~ $f(x) = f$

$$\Rightarrow \underline{A} \underline{u} = \underline{f}$$

↓ ↓

STIFFNESS MATRIX LOADS



$$\sum_{i=1}^N f(q_i) \cdot w_i \approx \int_0^1 f(x) dx$$

GAUSS-LEGENDRE POLY GRID

$$\leq 2N_Q - 1$$

→ 0.5th order QUADRATURE