Real Space, $\vec{x}$
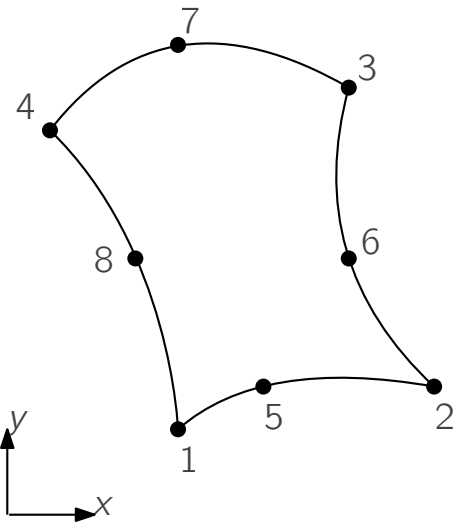

$$\iint f(\vec{x}, u, u')d\Omega = \sum_{i=1}^{n} w_i f(\vec{x}_i, u_i, u'_i)$$