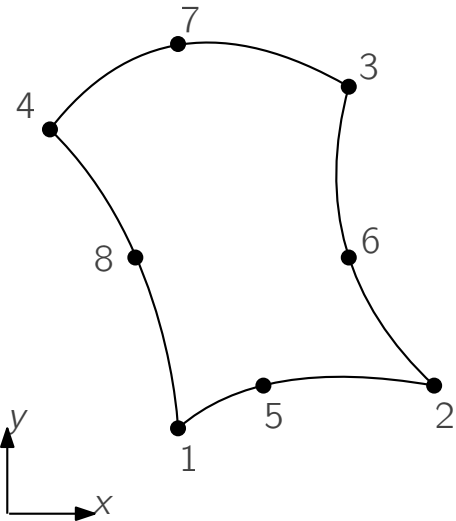


Real Space,  $\vec{x}$



$$\frac{d}{d\tilde{x}} = J \frac{d}{d\vec{x}}$$

$$J = \frac{d\vec{x}}{d\tilde{x}}$$

$$\frac{d}{d\vec{x}} = J^{-1} \frac{d}{d\tilde{x}}$$

$$\oint f d\vec{x} = \oint f \det J d\tilde{x}$$

Parametric Space,  $\tilde{x}$

