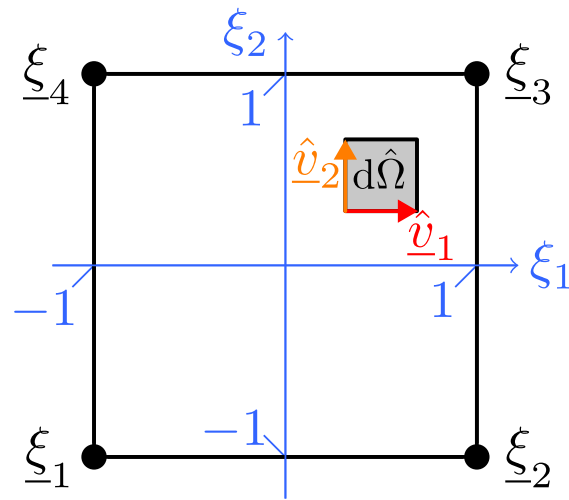


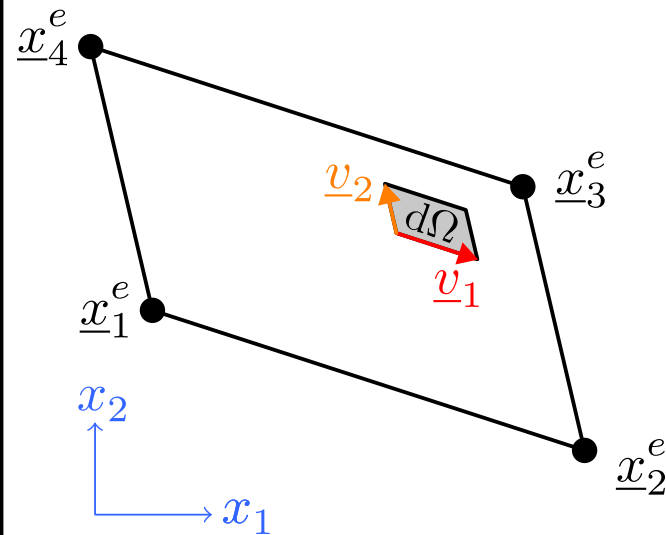
# Reference element



$$\underline{\hat{v}}_1 = \begin{bmatrix} d\xi_1 \\ 0 \end{bmatrix}$$

$$\underline{\hat{v}}_2 = \begin{bmatrix} 0 \\ d\xi_2 \end{bmatrix}$$

# Physical element



$$\underline{v}_1 = \frac{d\underline{x}}{d\xi_1} d\xi_1 = \frac{d\underline{x}}{d\underline{\xi}} \underline{\hat{v}}_1 = \underline{\underline{J}} \underline{\hat{v}}_1$$

$$\underline{v}_2 = \frac{d\underline{x}}{d\xi_2} d\xi_2 = \frac{d\underline{x}}{d\underline{\xi}} \underline{\hat{v}}_2 = \underline{\underline{J}} \underline{\hat{v}}_2$$