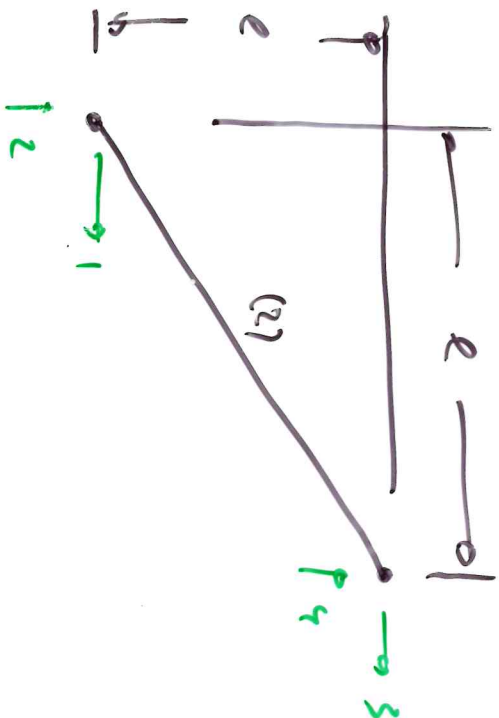


# Element 2



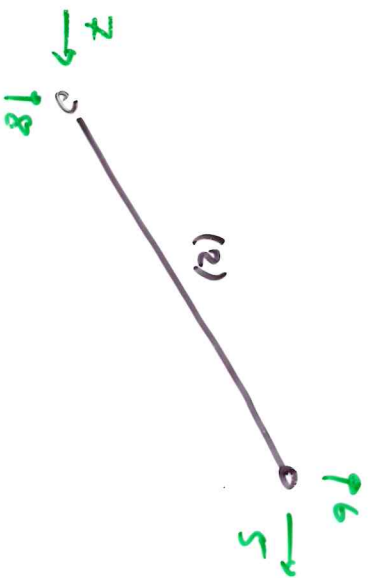
$$\Delta x = e, \quad \Delta y = e$$

$$L_{(2)} = \sqrt{\Delta x^2 + \Delta y^2} = \sqrt{2e^2} = \sqrt{2} \cdot e$$

$$C = \frac{\Delta x}{L_{(2)}} = \dots = \frac{1}{\sqrt{2}}, \quad S = \frac{\Delta y}{L_{(2)}} = \dots = \frac{1}{\sqrt{2}}$$

$$[k_{(2)}] = \frac{EA}{2 \cdot \sqrt{2} \cdot e} \begin{bmatrix} +1 & +1 & -1 & -1 \\ +1 & +1 & -1 & -1 \\ -1 & -1 & +1 & +1 \\ -1 & -1 & +1 & +1 \end{bmatrix} = k_{ab}^{(2)} ; \quad (a, b = 1 \dots 4)$$

Stab 2 in der Struktur



→ Koordinatenschema

e	1	2	3	4
(2)	7	8	5	6