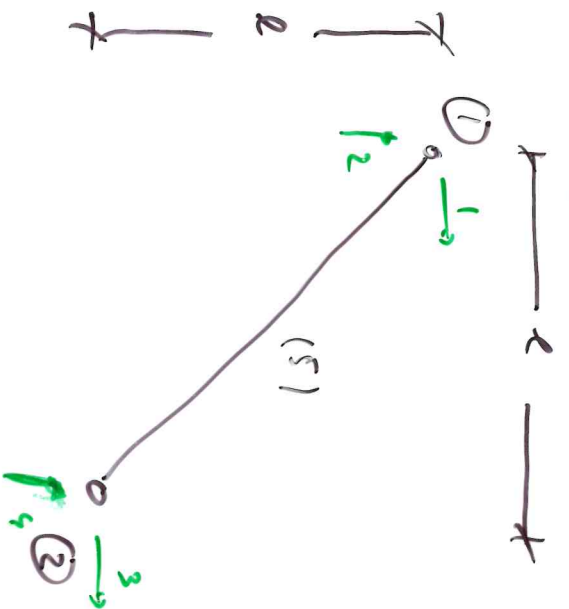


# Stab 5



$$\rightarrow \Delta x = +l, \quad \Delta y = -l$$

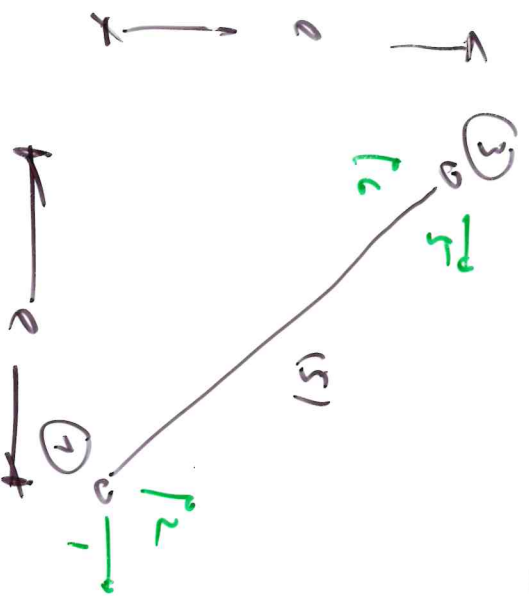
$$\rightarrow l_{(5)} = \sqrt{\Delta x^2 + \Delta y^2} = \dots = \sqrt{2} l$$

$$\rightarrow c = \frac{\Delta x}{l_{(5)}} = \frac{l}{\sqrt{2} l} = \frac{1}{\sqrt{2}}, \quad s = \frac{\Delta y}{l_{(5)}} = \frac{-l}{\sqrt{2} l} = -\frac{1}{\sqrt{2}}$$

$$[k^{(5)}] = \frac{EA}{2\sqrt{2}l}$$

$$\begin{bmatrix} 1 & -1 & -1 & 1 \\ -1 & 1 & 1 & -1 \\ 1 & 1 & -1 & -1 \\ -1 & -1 & 1 & 1 \end{bmatrix}$$

Element 5 in der Struktur



→ Koordinaten

	1	2	3	4
(5)	5	6	7	2