

Element 2

$$\text{Deformy } \xi_{(2)} = \frac{U_3 - U_2}{(e/4)} = \frac{1}{e} \left(\frac{E \cdot e}{8EA} - \frac{3}{16} \frac{E \cdot e}{EA} \right) = \dots = -\frac{E}{4EA}$$

$$\text{Spannung } \sigma_{(2)} = E \cdot \xi_{(2)} = \dots = -\frac{E}{4A}$$

Element 3

$$\text{Deformy } \xi_{(3)} = \frac{U_4 - U_3}{(e/4)} = \frac{1}{e} \left(\frac{1}{16} \frac{E \cdot e}{EA} - \frac{2}{16} \frac{E \cdot e}{EA} \right) = \dots = -\frac{E}{4EA}$$

$$\text{Spannung } \sigma_{(3)} = E \cdot \xi_{(3)} = \dots = -\frac{E}{4A}$$

Element 4

$$\text{Deformy } \xi_{(4)} = \frac{U_5 - U_4}{(e/4)} = \frac{1}{e} \left(0 - \frac{E \cdot e}{16EA} \right) = \dots = -\frac{E}{4EA}$$

$$\text{Spannung } \sigma_{(4)} = E \cdot \xi_{(4)} = -\frac{E}{4A}$$