

Remarks: See §2.2.1, pages 19 till 21
See §2.3, pages 24 till 26
See §2.6, pages 34 onwards

Answer:

$$\frac{EA_1}{EA_2} = 1,25$$

Explanation:

$$\Delta \ell = \frac{N \ell}{EA}$$

$$\Delta \ell_1 = \Delta \ell_2 \rightarrow \frac{EA_1}{EA_2} = \frac{N_1 \ell_1}{N_2 \ell_2} = \frac{(15 \text{ kN})(1,5 \text{ m})}{(9 \text{ kN})(2,0 \text{ m})} = 1,25$$