

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

Answers :

$$\frac{\Delta \ell^{(a)}}{\Delta \ell^{(b)}} = 1$$

Explanation:

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

$$\text{wire (a): } \ell^{(a)} = \sqrt{5} \text{ m en } N^{(a)} = \frac{2}{5} F \sqrt{5}$$

$$\text{wire (b): } \ell^{(b)} = 2\sqrt{5} \text{ m en } N^{(b)} = \frac{1}{5} F \sqrt{5}$$