

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

Answer:

$$\frac{A^{(\text{CE})}}{A^{(\text{BD})}} = 2$$

Explanation:

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

The resultant weight of the rectangular slab is supported by the wires.

The centroid of the triangular slab is $\frac{4}{3}$ m right of C.

$$N^{(\text{CE})} = \frac{2}{3} G$$

$$N^{(\text{BD})} = \frac{1}{3} G$$

$$\Delta \ell^{(\text{CE})} = \Delta \ell^{(\text{BD})} \rightarrow \frac{A^{(\text{CE})}}{A^{(\text{BD})}} = \frac{N^{(\text{CE})}}{N^{(\text{BD})}} = \frac{\frac{2}{3} G}{\frac{1}{3} G} = 2$$