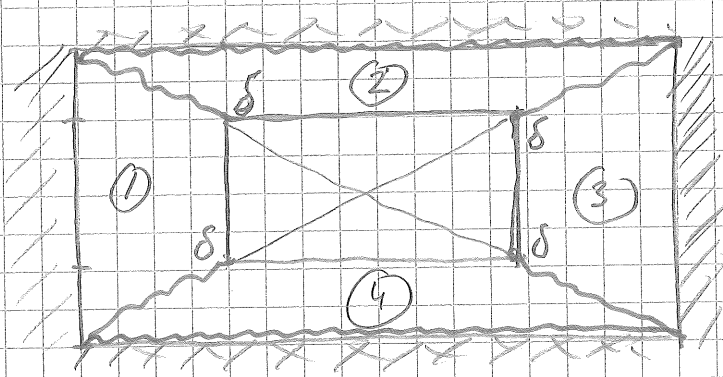


Indre arealer:

$$W_I = W_I^{(1)} + W_I^{(2)} + W_I^{(3)} + W_I^{(4)}$$

$$W_I^{(1)} = W_I^{(3)} = 2a \cdot m_u \cdot \frac{s}{2a}$$

$$W_I^{(2)} = W_I^{(4)} = (8a + 2a + 2a) m_u \frac{s}{a}$$

$\Rightarrow$

$$\underline{W_I = 26 m_u \cdot s}$$

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Die arSeite für fladelaSt p

$$W_y^{(p)} = W_y^{(1)} + W_y^{(2)} + W_y^{(3)} + W_y^{(4)}$$

$$W_y^{(1)} = W_y^{(3)} = p \left(2a \cdot 2a \cdot \frac{\delta}{2} + 2 \cdot a \cdot \frac{2a}{2} \cdot \frac{\delta}{3} \right) = pa^2 \delta \left(2 + \frac{2}{3} \right)$$

$$W_y^{(2)} = W_y^{(4)} = p \left(4a \cdot a \cdot \frac{\delta}{2} + 2 \cdot a \cdot \frac{2a}{2} \cdot \frac{\delta}{3} \right) = pa^2 \delta \left(2 + \frac{2}{3} \right)$$

$$W_y^{(p)} = 4 \cdot \left\{ pa^2 \delta \left(2 \cdot \frac{3}{3} + \frac{2}{3} \right) \right\} = \underline{\underline{\frac{32}{3} pa^2 \delta}}$$

Die arSeite für linje laSt q:

$$W_y^{(q)} = q \cdot 2a \cdot \delta$$

Spørsmål 1forvardi for P:

$$W_Y^{(P)} = W_I \Rightarrow$$

$$\frac{32}{3} p a^2 \delta = 26 m a \delta \Rightarrow$$

$$p = \frac{39}{16} \frac{m a}{a^2}$$

Spørsmål 2forvardi for q:

$$W_Y^{(q)} = W_I \Rightarrow$$

$$q 2 a \delta = 26 m a \delta \Rightarrow$$

$$q = 13 \frac{m a}{a}$$

Spørsmål 3