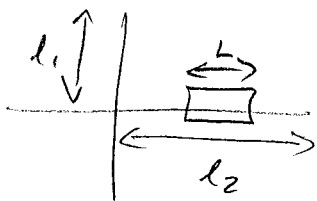


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Vi har ej lärt oss om tryck.

Antag i stället att vi struntar i det.



Utan gas: $\Lambda_u = 2(l_2 - l_1)$

Med gas: $\Lambda_m = 2(l_2 - L - l_1 + nL)$

$$\delta_u = \frac{2(l_2 - l_1)}{\lambda} \cdot 2\pi = m_1 \cdot 2\pi$$

$$\delta_m = \frac{2(l_2 - l_1 + L(n-1))}{\lambda} \cdot 2\pi = m_2 \cdot 2\pi$$

Vel: $m_2 - m_1 = 20$

$$= \frac{\delta_m - \delta_u}{2\pi} = \frac{2L(n-1)}{\lambda}$$

$$\Rightarrow n-1 = 20 \cdot \frac{\lambda}{2L}$$

$$\Rightarrow n = \underline{\underline{1 + \frac{10\lambda}{L}}}$$