$$W_0 = W_R \Rightarrow \frac{Z_{\pi V}}{L} = \sqrt{\frac{K}{m_q}} \Rightarrow K = \frac{4\pi^2 V^2}{V^2} \cdot m_q$$

$$\frac{1}{\sqrt{2}} \int_{\mathbb{R}^{2}} f^{2} dx = -Kx$$

$$\frac{1}{\sqrt{2}} \int_{\mathbb{R}^{2}} f^$$

$$\Delta x = x_1 - x_2 = (m_1 - m_2) \cdot \frac{g}{k} = \frac{(m_1 - m_2) g \cdot l^2}{4\pi^2 v^2 m_1}$$

$$fm_1 = 1328 \text{ Kg}$$
 $V = 16 \text{ Km/h}$
 $m_2 = 1000 \text{ Kg}$ $= \frac{16}{36} \text{ m/s}$
 $g = 9.8 \text{ m/s}$ 1.36 m/s
 1.36 m/s

$$\Delta x = 0,04966 \, m$$

$$\Delta x = 5,0 \, cm$$

$$100 = 10 \cdot log_{10} \left(\frac{I}{I_{RBF}} \right)$$

$$I_{100} = \frac{Pot}{4\pi \cdot (100)^2}$$

$$\frac{I_{100}}{I_{500}} = \frac{500^2}{100^2} = ZS = \frac{I_{100}}{I_{500}}$$

$$= 10 \log_{10} \left(\frac{I_{100}}{I_{REF}}\right) + 10. \log_{10} \left(\frac{1}{25}\right) = \left[X = 86 \text{ dB}\right]$$

$$-14$$

$$V_{c} = V_{5} \left(\frac{l_{2}' - l_{1}'}{l_{2}' - l_{1}'} \right) = \left[24,0 \, m_{5}' = V_{c} \right]$$

$$V_5 = 343 \text{ m/s}$$

$$l_2' = 429 \text{ Hz}$$

$$l_1' = 373 \text{ Hz}$$