TALLER #2 OPTICA 4 ACUSTICA

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1) m=0.2kg K=80N/m

 $A = \frac{1}{\sqrt{(K - mw^2)^2 + b^2w^2}}$

 $A = \frac{2N}{\sqrt{(80N/m - (0.2 \text{ kg})(305^{-1})^2)^2 + (4N.5)^2 (305^{-1})^2}}$

2) m=0.2Kg K = 80 N/m

F= focos(wt) Fo = 2N W = 30;1

A= 1. 2n V(80n/m-(0.2×g)(30, 42)2+(4n-1)(305-1)2

P= <1 N.2

Fo = 2N F(t) = Fo sin(wt) W = 30 s⁻¹

8= 4 N.8/K = 20 5th

 $\partial = \tan^{-1}\left(\frac{20.30}{(20^2-30^2)}\right) \approx -0.87$

 $T = \frac{2\pi}{\omega_0} = \frac{2\pi}{20} = 0.31s$ $\frac{\Delta \xi}{\xi_0} = (\frac{\xi}{\xi} - 1) \times 100\%$ = (e-xt-1) x100%.

= (e. -(20)(0.31) -1) ×1007.

= -99.7 %

