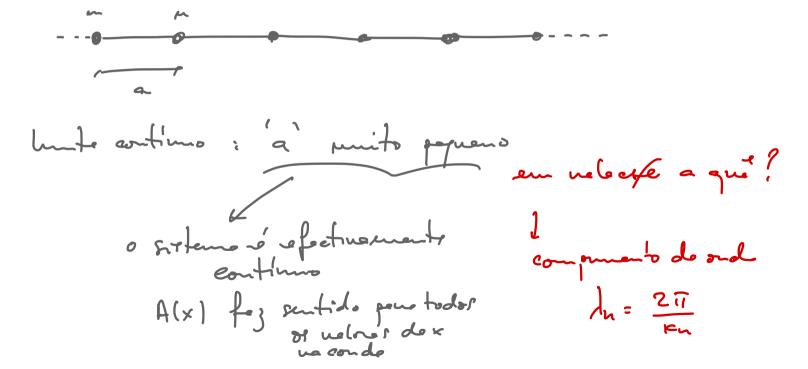
21 Hm Berd

Ondos

condo com contel



· acasé le 77 'K mm sundo nomma! Aj=A(x) x=ja $\pi^{-1}K A(x) = \frac{T}{\mu a} \left(2 A(x) - A(x-a) - A(x-a) \right)$ reclide peus quolques responents a 23-c -c 23-c -c 23 peus a ende C=3 $\Rightarrow 0 \quad a = c \quad d = \frac{211}{k}$ -0 ca << 211 - memos sunto poqueno

enter A(x+0) estee em to présurer de A(x) A(x-a) (pelo manor ur escale du comp. de ondo) Servie de Torfor que sommere sunto régidoments $A(x+-1) \approx A(x) + \frac{\partial A}{\partial x} a + \frac{1}{2} \frac{\partial^2 A}{\partial x^2} a^2 + \cdots$ $A(x-\alpha) \simeq A(x) - \frac{\partial A}{\partial x}\alpha + \frac{1}{2} \frac{\partial^2 A}{\partial x^2}\alpha^2 + \cdots$ $2A(x)-A(x+a)-A(x-a)=-\frac{2^2A}{2x^2}a^2+\cdots$ terror de
onder a's on au perm

m/a -> pr densidede lineer de messe
(messe por und de oongruents)

Assim a ep. do movimento

$$\frac{\partial^{2}}{\partial t^{2}} + (x_{1}t) = - \frac{1}{1} \times 4(x_{1}t)$$

$$- \frac{\partial^{2}}{\partial t^{2}} + (x_{1}t) = \frac{\partial^{2}}{\partial x^{2}}$$

$$+ \frac{\partial^{2}}{\partial t^{2}} + (x_{1}t) = \frac{\partial^{2}}{\partial x^{2}} + (x_{1}t)$$

$$= \frac{\partial^{2}}{\partial t^{2}} + (x_{1}t) = \frac{\partial^{2}}{\partial x^{2}} + (x_{1}t)$$

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ne basé de dispersée $\omega^2 = \frac{4T}{\mu a} g \omega^2 \frac{\kappa a}{2}$ = 41 (kg) (80 kg) . 41 (ka) 2 Deus o sitteme continue ca -00

\[\omega^2 = \frac{7}{\rho_1} \text{ conde ideal continue} \] T = 7 = 7 ontre forme de obten w² no lunte en que ce s' popueno ω= 41 κα ες = 41 κα (ες)

L sagardin em

= 47 (Kg + ...) Sux=×+...

~ 4T = T/p2 =2

Selvie de 107/1

$$\left(\begin{array}{c} T \\ \end{array}\right) = \begin{array}{c} T L T^{-2} \\ \end{array} = \begin{array}{c} 2 T^{-2} \\ \end{array} = \begin{array}{c} 2 T^{-2} \\ \end{array} = \begin{array}{c} 1 T^{-2} \\ \end{array} =$$

Seme toumer · conde com extremos fixos 4(0,+)=0 4(1,+)=0 disereto (une defenden de numer de oschedors) A"(x) = Shr xx mer sjone 1 det. $< d = 2\pi / = 2l$ continuidade fozon sentral $E = \frac{n\Pi}{l}$

$$k = \frac{n!}{l}$$

Sin $\left(\frac{n\pi \times}{l}\right)$ eas $\left(\omega_{n}t\right)$ $\omega_{n} = \sqrt{p_{l}} \times n$ Sil. zens cado usual Levol. tempre 4"(x,t1 x 一个工

120	Condus

nomant of sompleto

= quelque configurage do sirtem pode ser

evente como combrage huean de

moder nomant

 N-0 a : conf. genénier de sorteme pode sen desante pro uma contract de mimero infrints de madel nomant I funerous Seine Fourier summe que une funge ben compréde Consé du E 1500 funcions extremos fixos: 4(0) = 4(21=0 : se une de tounier ! U(x)= Sen son nil x loefs. de rounier Isto so' é let l'aponque extete une formes somples de calcular os coef. en dede un functe $\psi(x)$

os modos nomais são ontogonais (hueamente independentes)

Sin $\frac{n \text{ Ti} \times}{l}$ Sin $\frac{n \text{ Ti} \times}{l}$ Sin $\frac{n \text{ Ti} \times}{l}$ O se $n \neq n'$ per funçois = 4/2 Snn1

de kronsæren Sun' = } | , n=h O, n±n'

= 42 \(\int \cap \chi \square \text{nn'} \)

de solume