FINISh: SPRING THY

where we made: (x) = (x) = displacements

 $(4) \quad \ddot{\chi} = \ddot{h} \left( \frac{-2}{1-2} \right) \chi$ 

の 入一・帯に 入2=-3橋 how? det (A->11)=0

@ \fu = \fu (1) \fu = \fu (1) Now? (A->:1) fc =0 AMD (30,500)=1

(3) x(t) = (x, (t)) = 4, (t) \( \x\_0 \), \( \quad \text{Y}\_2(t) \) \( \x\_0 \) x,16)(6)+ x2(6)(9) combine into a vector

= (4,14) = EIGENBASIS

then (x) in the combass is / m states is

ANSWAR FRED

 $\dot{x} = A \times - (-\frac{1}{2}) + (-\frac{3}{2}) + (-\frac$ 

 $\frac{\langle \dot{\varphi}_{1} \rangle_{E}}{\langle \dot{\varphi}_{2} \rangle_{E}} = \left( -\omega_{1}^{2} - \omega_{2}^{2} \right) \left( \frac{\langle \psi_{1} | \epsilon \rangle}{\langle \psi_{2} | \epsilon \rangle} \right) =$ 

GIGGNIBAS.S 9 ⇒ Ψ; =-ω; Ψ.

$$|\dot{x}\rangle = \psi_1|\dot{t}\rangle \left(\langle e_1|\xi_1\rangle |e_1\rangle + \langle e_2|\xi_1\rangle |e_2\rangle\right)$$
  
+ $\psi_2|\dot{t}\rangle \left(\langle e_1|\xi_2\rangle |e_1\rangle + \langle e_2|\xi_2\rangle |e_2\rangle\right)$ 

What are these? WONST W/RT STANDARD BASIS

$$\Psi_{1}(0) = \frac{1}{1} \left( \frac{1}{1} \left( \frac{1}{1} \left( \frac{1}{1} \right) \right) \right) = \frac{1}{1} \left( \frac{1}{1} \left( \frac{1}{1} \right) \left( \frac{1}{1} \right) \right) = \frac{1}{1} \left( \frac{1}{1} \left( \frac{1}{1} \right) \left( \frac{1}{1} \right) \left( \frac{1}{1} \right) \right) = \frac{1}{1} \left( \frac{1}{1} \right) \left( \frac{1}{1} \left( \frac{1}{1} \right) \left( \frac{1}{1}$$

$$= \frac{1}{2} \left( (c_1 + c_2) \times_1 (a) + (c_1 - c_2) \times_2 (a) \right) (a)$$

$$+ \frac{1}{2} \left( (c_1 - c_2) \times_1 (a) + (c_1 + c_2) \times_2 (a) \right) (a)$$

$$X = \begin{pmatrix} \psi_1 \\ \psi_2 \end{pmatrix}_E = \begin{pmatrix} \psi_1(b) \cos(\omega_1 + b) \\ \psi_2(b) \cos(\omega_2 + b) \end{pmatrix}_E$$

CONVERT BACK BY MUMPUANG BY 1.

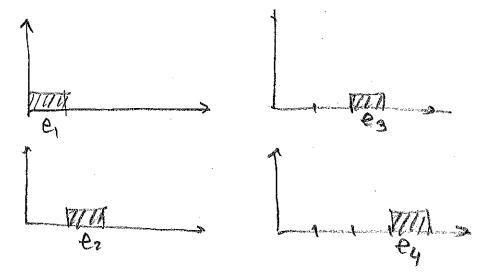
makes the most sense here

$$|E(t)| = \frac{1}{2} \left( \cos(\omega, t) + \cos(\omega, t) - \cos(\omega, t) - \cos(\omega, t) \right)$$

$$\cos(\omega, t) + \cos(\omega, t) + \cos(\omega, t)$$

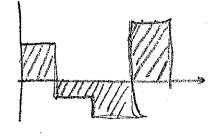
constitute a BIT DIFFERSI (but adually your similar of shady "Inches apare"

eg HOTOGRAM SPACE.



THESE 4 BASIS VECTERS:

$$\Theta_0$$
  $V^i = \begin{pmatrix} 2 \\ -1 \\ 3 \end{pmatrix}$ 



OBNIOUSLY" The Is a crude approx for A FUNKTION.

WE DON'T HAVE "MATRICES" ACTING ON FUNCTIONS

Come wave decenatives (2 Comp?)

desinatine discrete from.

DESINAL ME WELLY 12

$$P = \underbrace{\left\{ \begin{array}{c} t_{i+1} \\ \vdots \\ t_i \end{array} \right\}}_{\left\{ \begin{array}{c} t_{i+1} \\ \vdots \\ t_i \end{array} \right\}}$$

: S: Must hothers B N; Must is My comb of Att ;

mm. maybe we could have defined not the FORWARD desirative, but instead the BACKWARD LOCIVATIVE ...

BUT then almat is Leight ? fo!

THE DEFINITION OF FUNCTION SPACE

DIRIGHTET BO: to= +N+1 =0

MERMANN BC: thin-th = 0 => to == ti

HERIOLDIC BC : that = th

FORWARD PERLIDOIC

( PERIODIC

= Dans

DECORE!

tito = tibeo

BEMARKS: IMPOSIBLE TO DEF "SYMMETOR". 1 ST DEMVATIVE I BUT ME like o'M MAJULES.

Au papers elem dustered along diagone !
I adjacent -> Locality

LEDOND DESMETTIFF: ON pe defined alumerically

DAMO DELONO

UP to BUMBLY, this is som.

APPRICE start to solve linear eggs

GREAT'S function