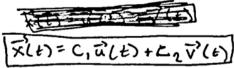
Homogeneous systems

- O Find A- AI
- 12 C- Alta De
- 3 solve for 2;

Solve For T's (or just F?)

Dwrite out Xi(t) = CIE ni

- Dent = cos(x,)+isin(x.)
- 3 split () n', into Re, Im
- (4) えにか : あいにか + 母 iv(も)
- @ general solution



- Real λ Φ O: F multiplicity = 1,
- Oflug each 2: into A-AI
- 3 solve [A-XI][ni] = [0]

For members ni of n' | fungin the |

(rugin the best ni

- (b) = C, e, t, + C2e 12
- 1) if Multiplicity >1,
- 4 Find nis as above
- (5) solve $\begin{bmatrix} A \end{bmatrix} \begin{bmatrix} P_1 \\ P_2 \end{bmatrix} = \begin{bmatrix} P_1 \\ P_2 \end{bmatrix}$ for elements of \vec{P} $\vec{P} = \begin{bmatrix} P_1 \\ P_2 \end{bmatrix} = \vec{P}$
 - 6 Pick a P, that lest solves matrix

Non-Homogeneous Systems

Undetermin'd Coefficients

1) solve homogeneous version:

Construct general (matrix)
quasifolynomial incorporating
all elements of given QP

$$\nabla \nabla P = c_1(e^{\lambda_1 t} \vec{n}_1) + c_2(e^{\lambda_2 t})$$

Varia Par

