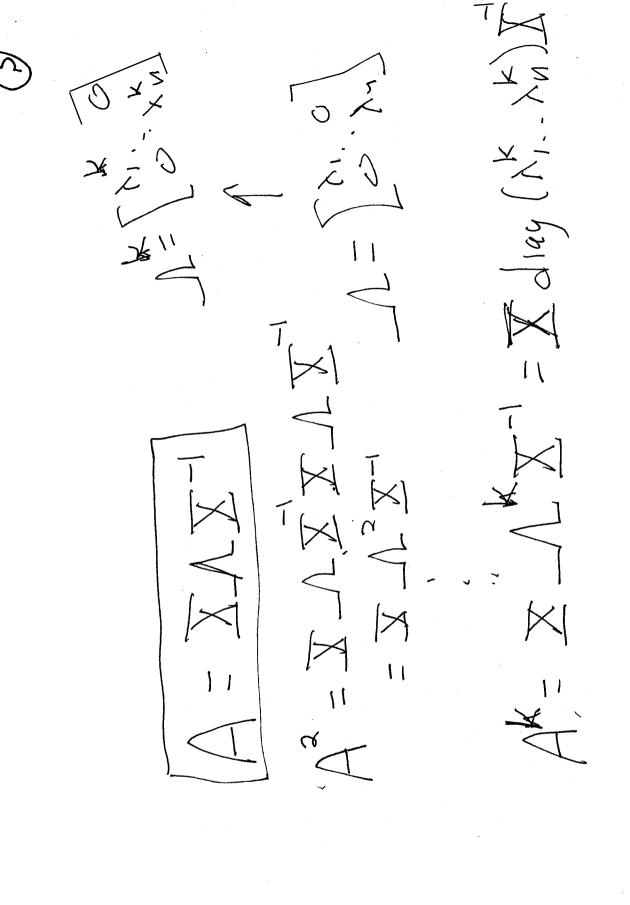
HSSWMR A (S (M+4) at has elyenvelous) are Thready 122. [So they are a basis of Rª) 100/ 100/ 100/ 1/2 - 1/2 X ( Ni V) SO Mat SVI, -, Vis I-1 A X = diag ( h1,-7 h) =-23 -1 gen uallyes + UP of opes 11 Diagonalization Theorem M 129185 a rampa A 15 & MARKOU TrANSITION WATER S 44

= prosasility of a transition transtate it to state i

AAA. A = A" IS TRE POCESS M Steps. a fter



In general two matrices nave similar (+) (2) IF (hi, 12) is an eigenvelover Mim => (1) A and B have he & ame set 15 an eval, vect pair for B=C-AC for an invertise C.  $\begin{pmatrix} 1 & 0 \\ 1 & 0 \end{pmatrix}$ Rigenualnes (Spect Rum = of Riger values) Dair for B

1-11-12-21 (PS 1-171121 PA(X) => Aand B have The 5 ame charpoly so same spectrum B-XI/82- Let 17/IX-Y/10/ コンベーフサーン ) (IV-V)-J DB(X) 20 K

大二加、(12) サニ(12) 1x (12) サニ(12) 1x 17 7 4 7 1/2/ = YCV 1/1/1 15/1 50 It

tor (6)

510 Johnson Linear Matrix DE 1 mer Ma Frix DE 43 MXM-JagonalizaTion. System of Linear DE dr=2x1 +7 K2 - 8x + 3x2 ~ ~ 刘孝

MEW COSCOMARES. 2 (m/1/2) Balp = 5 1 XER, A 15 (MXV) 4 is diagonizable seneral set up 11 XX 1-X SS UMB

3(2/5 = (7/6)C りくしかったり , boll on or ok (分(0)'后=(升)'( 2/2/ 2 11 SOLR 2/2 170 770

ya(0)-. We need 6/6 (2) zh オン diag (Cit) matrix four 50/m. for ×(4) 424 DATE OF THE PROPERTY OF THE PR 2000 1 (7) 11 (7)

Assuming eigenvalues are real 0 x x 8 P X diag(edit, 10/4) 4/0) Stability - what mappens to KH (4)= Z gligg(eht. Att) (X 700414 ×170 SOME 17 B =(+/h 1F all 1:40-3 XESO Man Laboration Comments of the Comments of the



## assuming eigenvalues are real

(Sluk, attractor) 1,1240 Stable

(soure, repelle-)

UK Stable Mily 10

Unstall h, 20 h, 20