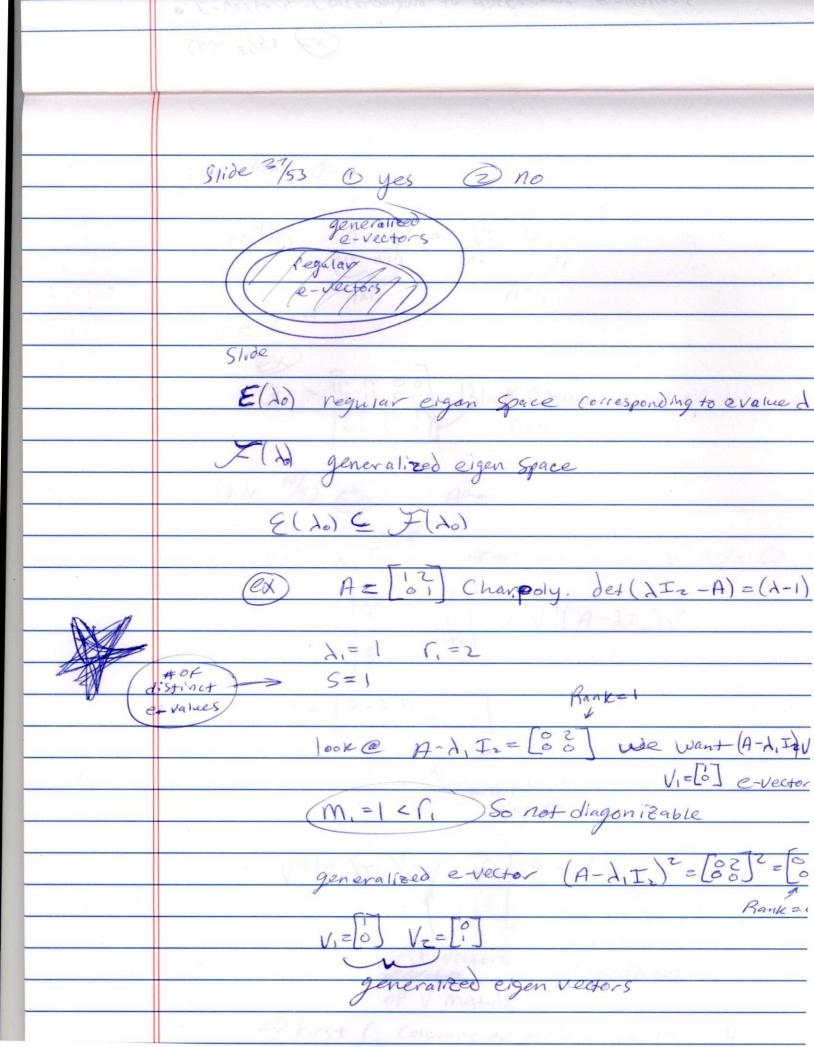


	Slide 34/53 (EX)
<i>I</i> I	· E-Vectors Corresponding to different e-values
	must be inverty independent.
	The second secon
	Assume V, and Vz Corresponding to d, and dz
	with $\lambda_i \neq \lambda_z$
	And C.VI+ CrVz = 0 (Vi & Vz are Mearly depend.) For Some C, to and Crto
	for Some C, \$0 and Cr\$0
	Take (multiply by A => A (CIVI+CEV2)=0
	=> CIAVI + CZAVZ = O eg ()
	=> CIAVI + CZAVZ = O eg (2) (CIXIVI + CZAZVZ) = O eg (2)
	,
	Multiply 1 by dr and subtract from (E)
1000	
	CidiVi+CzXzVz-(CidzVz+CzXzVz)=0
	$=$ $(C_1(\lambda_1-\lambda_2)V_1=0)$ Contradiction
	OK, let C,=0
	V cant be a Zero Vector
	CIVI 21 & L. Disconstance and the contract of
	general, a de Voces (A 1 1 1 1 1 1 1 1 1 1 1
	101
	11. 12 1 12 = 11.1



Slide 453 B n Slide 41/53 A V; = V; Q;

non non non nor;

noxi;

noxi; = (1) 80 Block Dragonal Matrix
00 (1) NXN Slide 44/53 (2) (Qj- xj (rj) voors we know V-AV= Q Q, - \, Ir, V-1 (A- /In) /= /= (Q-1,-In) Still block first vectors of arein of V matrix => Firs+ 1; Columns of BHS have to = \$

Slide 45/53 Ono Oyes Byes Slide 47/53 off A cant be diagonalized of Use nill potent to 30 it. V-AV=Q=A+N An = (VN+N)V-1) (V(N+N)V-1) ... (V(N+N)V-7) = V(N+N)V-1 Slide 48/53 exp(+N) exp(+N) with go to zero or truncate" A = [3 2] Char poly = (1-3)2 implies that Now check of Aisdiagonalizable? Exists.

A-AIz=[00]

A=3, r=2, S=1 only, dimension nulisace = N= [] is a basis for E(1) => M,=1<1, => Not diagonalizable Nowz generalited e-Values (A-d, Iz) = 00 => F(2) is all of #2 => {(6][9)3 is a basis for F(2)

