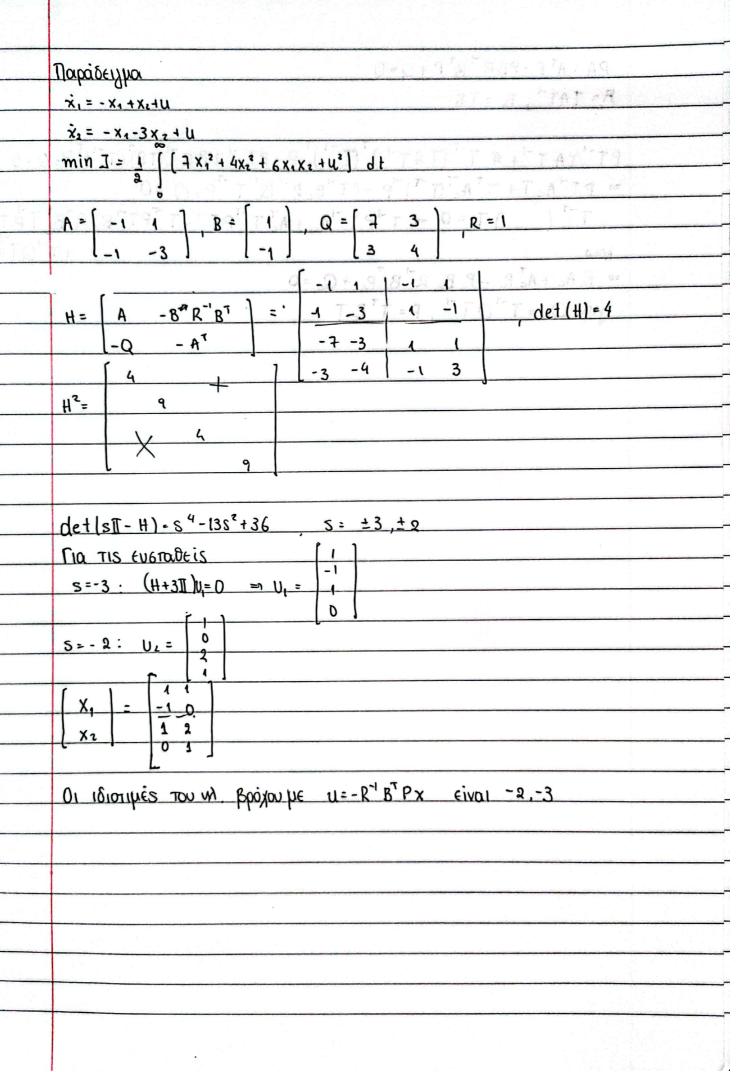
lenxon nxn	
$ m[X_1] = \chi(H)$	
X ₂ NXM	
stabilizing solution: $X = X_2 X_1^{-1}$	<u> </u>
inm: He dow (Ric), X = Ric(H)	Table Align
(i) X is real symmetric	TA STATE
(ii) X Luavonoiei Tn Riccati	
(iii) A+RX stable Vava = Vav	z glegonir stračnikači a
A cor or or opady out	orði pintigi haþ
$H_m \left[X_1 \right] = \left[X_1 \right] H \rightarrow \left[A \right] \left[X_1 \right]$) = [X,] H
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	2 X2
	AV EVA
$O -I A R = Q A^T$	THE DAME THE UNIT
I O I -Q -AT A R	LNA VALEVAL
	olf v where
X δυμμετριμός $- X = X_2 X_1^{-1} = (X_2^{-1})^* X_1^* X_2$	X ₁
	0 1
A R T X ₁ H X ₁	
$-Q -A^T \left[X_2 X_1^{-1} \right]$	FT Diccord PARP
A+ Q X = X, H_ X,-1	
$\begin{bmatrix} X & II \end{bmatrix} \begin{bmatrix} A & R \\ -Q & -A^T \end{bmatrix} \begin{bmatrix} II \\ X \end{bmatrix} = 0 \Rightarrow \begin{bmatrix} XA - C \\ XA - C \end{bmatrix}$	
$= XA - Q + XRX - A^{T}X = 0$	[X]
mbs -ms -subarnious -sisus -sisus -sisus -says -says	
X has no eigenvalues with Re(ii)=0 when	(R,A) stabilizable
$f H = [A - BR^{-1}B^{T}]$ Avion the Ricco	
-Q1/2 -AT J. AUGN THS Ricco	zti δετιμοί μμιοριομένος
	Carried Andrews
A,B) stabil. (CC,A) detect Riccati Hov	10.3744 MILE
Riccan How	1. 70 hùan

1) PA+ATP-PBR-BTP+Q=D	(A M M)
2) H = [A -BR'B]	AMBORT - Fueb
l-Q -AT	Telliand I am
3) det[> II = n - H] - O - > > > > > > > > > > > > > > > > >	FIOTIPE
4) ISIOSIQV. IN EUGTATES ISIOT. IN H	ervic C-411 C A C
5) [X,]=[U, U, Un]	(1941-+ 1 - 1 - 1 + 2 h) + + h
l X ₁	
6) P= X2X1	
$det(sT-A) = s^n + \alpha_{n-1} s^{n-1} + \dots + \alpha_0 = p(s)$	
tr [{etA } = p'(s)	
b(2)	
N(s)	
$(sT-A)^{-1} = \alpha dj(sT-A) = s^{n-1} N_A$	+ + Nn
100	
(ST-A) (A-TZ) (A-TZ) (A-TZ)	1 = p(s) I
(sT-A) (sn-1 N1+ +Nn) = (sn+ an.	-1 S^{n-1} $1+0$ 0 1 1
(N2-AN1) 5"+ (N3-AN2)5"-	2 + + (Nn - ANn-1 18 - ANn
$\rightarrow N_1 = I$ $N_1 = I$	
N2-AN4 = Qn-1 II -1 N2 = AN4+1	αn-1 I
$N_n - AN_{n-1} = \alpha_n \underline{T} = N_n = AN_n.$	
$0 = AN_n + \alpha_n \mathbb{I} \qquad 0 = AN_n + \alpha_n \mathbb{I}$	Q ₀ I
$\frac{d(e^{\Lambda t}) = Ae^{\Lambda t}}{dt}$	
	. [. / = 0.5]
$SL[e^{At}] - II = AL[e^{At}] = SP(S) - n$	= tr(A(SII-A))
	A NIS)
=> sp'(s) - np(s) = tr AN(s)	
sp'(s)= ns"+(n-1)an-15"-1++a,5	
sp'(s)-np(s) = - an-1 sn-1 (n-1) a	s-nao
= tr (AN1)5"-1+tr (AN2)5"-2 +	- +tr (AN4)

$Q_0 = -\frac{1}{n} \operatorname{tr}(AN_n)$	14
$\alpha_{n-1} = -\operatorname{Tr}(AN_1)$	1 (1
$\alpha_{k} = -1 \operatorname{tr}(AN_{n-k})$	
(n-k)	HA (G
a n=9 (trH=D nàvia!)	1 / L
$\frac{1}{1} \frac{1}{1} \frac{1}$	
$\det(\lambda \mathbb{T} - H) = \lambda^4 - \frac{1}{2} + r(H^2) \lambda^2 + \det(H)$	
	9.79
(2)0 = 00+ 1 12.80+ 2= 1A-I	o I Lak
4-A1+51+02.5 + +00=p(s)	
	-
	-
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PA + ATP-PBR BTP+Q=0			
A= TAT", B=TB		and the second s	15 - A
			T
PT-'TAT-+ # T T (TAT-1)	(T-1) P-P	T-17BR-1(TB)'(T") P+Q=
= PTA, T+TA, TTTP	-PT-B, R-B	T P+Q=0	
PT'TAT'+ # T (TAT') - PT'A, T + T TA, T(T') T'' () T = 0 - T''	PT - Ac + AC 7	1-TPT-1-T-PT	BCR BCI
AXnX	- A		+ + + - (
=> P. Ac + Ac Pc - P. Bc R B. F	2 + Qc = 0		
Ma Qc = T-TQT-1, P= TT	P _c T	12 28-	
	E-F-] 0	
1 & 1-	p - 3 - 4		
		P	
3,+9	+ + 4 = 1	B+ 65-12-11-	
		- TOTAL	
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E-Standin v97a5	J-21, _21.000	(A) 10 mm	
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