Roll No: 180123029 To prove B = At Now solving the forward part that all eg's are datified B=A+ and then prome the eque unique ness VE TUT = BUA Henry BAB Henry my can say that \$ = \ is allow symmetric Henre me com insert a non Identity matrix VTV in pridelle: where Vis orthogonal no $\sqrt{V} = I$

Millians to Mognature I was - (6) where	
(AB)T= UZVTVETVT=(ABTIN) barnerelist	,
→ Henre praved.	
	l'
Now for (BA) = we get prosected all 1104 (BA) T = V (E+E) TVT:	
	L'an
using the previarguement EE is symme	anc (1)
Now insurt Ju in the middle: where V	is
a nxh orthogonal matric as outv=1	
HOTEM. 200 000 1000 100 000	
Hum (BA) T = V ETUT V EVT = BA	
9 = (A) VALOR INZA MAN	
- 12 2 2 2 CE	
Herre, we can see that B=At satisfies	the egn.
Now ere have just have to prove uniquenel	
1 here hat take of much also sut	efies.
Then we have $(CA)^T = CA + (AC)^T = AC;$	
	rt.
A(A=A, CAC=C	
TORU BEVET COLOR VEUT	(
Now we consider AB 2 34 3 4 38	
AB = (A) B = A (ACA) B = ACAB = (AC)?	(AB)'
B also satisfies the above egns.	
10 (t=3) 0 : (TUt330) : (8A) 10	11.3
AB = (AC) ^T (AB) ^T = CTA ^T B ^T A ^T (using property C ^T (ABA) ^T = CTA ^T .: A = ABA:	of mars tos)
	luci s
white $AB = 1 \cdot C^T A^T = (AC)^T = AC$	
	1
While branches his other willy	
T = V'V	

(A)			
Henry Tox	milarly phei	can prove por	pumiltiply
2		このニエフ・ない	4
BA	$= cA \longrightarrow 2$	8	1
	R P P	, 0,0 -0 10	
. 0.21	- (J= - A) (I q	-9) way	
Heme:	B=BAB (given	Kelicady)	
O'HANGHE BY	DI CALL C	T 2 - 40 (1 d = 1	11 10
M) B=	B(AB) = B(AC) = (BA) = CA	(C) = CAC
Corn	COLT COLT	a = A	1=1
ming o	I the egns got	- i and C=c	AC Given
J (1 1 1)	I the egns got	1)4(97929+19). =	•
Heme &		which the want	ted to peoul
P	B=	At No L Nog.	
Henry my	con say that	only one w	latvíx
Satisfies (all the airen	Commons	6 0
that is	1B = At given		
I I Romf	5 + - Q + . 2 = In	Lagage A	, usuio e
	· [(g-T) + 3]	9 = 995	0,
	The state of the s	england to the state of the same	
3450 (3-	4) + 92 (5(4:2)	" 29,00,00 i	2
	6. 400 (4-2) to		il .
a la como la	99	(s9 ,0) ,0 =	(3)
	Ċa	9-91(12)=	en la
4 -	alexander of the Ko		

,	Page No. Date: / /20
	N C - 7
30/1/3): since UVT -> makix of sixelosso, U, VER 1803
	ionsider 77
	$u = [u, u, - u_n]^T$
	V= (v) V2 =- Un) [1018 129 1701
	V7= [v, V2 Qn]
	The Control of the Co
	Ust = our les
	$(1 + (3d-b0)) \leftarrow (1d)$
19.	L'Um
78 A	=
	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	rel-ho-la unu = a = - a= lunun / a ol
Marie C -	· · · · · · · · ·
	mutil ale Value of u. v. are non tero
100	uv7u = (v7u) = (v7u) · a : (b-0)
Ž.	Hemotas - religion with the tot most in mand
	Henre wank (uv) & 1 10 - 24 10
i i	=) mellity= 2N n-hol 2 (15-10) went
	(n-1) eigenvertors of eigen value = 6.
	1=) W - ha / 1 m 2 f
N.	
	(1) has eigen vector u with eigen value 1+ 1/4.
	(6) ogen sector o berge value 1+ 1/4.
Ţ.	
	Share CAU
The Windshield	



