since BT=B, we can say Bor (A+AT) is symmetric

	S. C. L. M.
R.	A TI
	A-AT is anti-symmetric.
	Let BeRnx denok A-AT
	A CONTRACTOR A-A
	Let BER William
	i.e B = A-AT
	1.6 B = H-V
	taking a transpose of B.
	taking a transpose of
	$B^{T} = (A - A^{T})^{T}$
	$\alpha T = (\alpha L, \Delta T)$
	B = (A - H)
12 - 12	again whizing the same property
∮ 1)	again whizing the source
	$R^{T} = A^{T} - A$
	7
	$\Rightarrow \mathbf{A}^{T} = -\left(\mathbf{A} - \mathbf{A}^{T}\right)$
	101 1000
	T is book to be
	$\therefore B^{T} = -B  \text{or}  B = -B'$
	(10.11) = 18
	C
	Since B=-BT, we can say that Bor (A-AT)
	SINCE IS CI
	is anti-symmetric.
	But A A A But
cal main	Store B. R. and Combine & months of
111/11/11	

C.	$A = \frac{1}{2} \left( A + A^{T} \right) + \frac{1}{2} \left( A - A^{T} \right)$
	We will prove that we can covile
	$A = 1 (A + A^{T}) + 1 (A + A^{T})$ , i.e A can
	be worther as a sym of symmetric and
	LHS = RHS.
	1/ ± 1/
	Let us take bronspose on both sids.
	1 1000 - 1 2 HO - 2111 -
	i.e $A^{T} = \left(\frac{1}{2}(A+A^{T}) + \frac{1}{2}(A-A^{T})\right)^{T}$
	$A^{T} = \left(\frac{1}{2}(A+A^{T})\right)^{T} + \left(\frac{1}{2}(A-A^{T})\right)^{T}$
	$A^{T} = \frac{1}{2} (A + A^{T})^{T} + \frac{1}{2} (A - A^{T})^{T} \rightarrow 0$
	Now, A+AT is symmetric,
	$: (A + A^{\dagger})^{T} = A + A^{T} \rightarrow (2)$
1	
	also A-AT is Conti-symmetric
	$(A - A^{T})^{T} = -(A - A^{T}) \rightarrow (3)$

