2. As we know, < 419> = < 914> C4/44>=<A4/4> (Mere, Oz A/45) This exchange of arguments of inner product is a inherent property of irver product & is walid even when A may not be hermitias. I assumed homitian A to prome the yollowing:

(4/A4) = (A4/4)  $C\Psi A / \Psi > 5$  $\langle \gamma A / \gamma \rangle$ CYA/4) = CY/A/4) ... in It is real (Can be used to prose)
A has real eigenvalue