Ananyu Li. Assignment 4. (2).

questron 2.

(A. \( \) is a complete lattice. so for each subset BEA. there exist least apper bound of B. for each X ∈ B. X ≤ VB 1: A->A is a monotonic function so for each X & y & A. \$ if  $x \leq y$ . then  $f(x) \leq f(y)$ As a result fexts f(VB). for each XEB we alreay know XEVB  $f(x) \leq f(VB)$ i. f(VB) is the least upper bound of f(B) SO- f(VB) > V\$ f(x) | X & B3. holds for any subset BSA.