Ezi Suppose A, B+P. Throw that AXB = BXA (=) A = B Word; (=) Assum AXD = BXA WTS A=B (i) Show A & B Lit a EA + Ø Now B & p , ... 3 b E B : By defin, (a,h) EAXB = BXA (a,b) G BXA =) a & B and b & A 1 a GB (ji) Show B EA Similar to (i)

(E) Assum
$$A=B$$

WTS $AXB = BXA$

(1) Show $AXB \leq BXA$

Let $O \in AXB$

Now $O = (a,b)$ where $a \in A$ and $b \in B$

But $A=B$
 $A = B$
 A

(ii) Show BXA & AXB
Similar to (i)