

LEMMA: disjointendness of VAL\*,

ATM \*

VAL\* n ATM\* = Ø

VAL\* 1 DIV/0\* = \$

ATM\* n DIV/0\* = \$

.

PROOF

18t Q B B B E & VAL, DIV/O, ATM 3

let e a\*, and we show that

e Bar a = B

i by def e \*> en

e 05 \*

where en a for some en



similarly,	
e B*	
: by def. e *> em	
where Cm B	for some B
	8 8 7°
but, normal forms in ->	are unique
en = em	
also by partition theorm	on normal forms
en &, and	.0
en B	
	¥
is possible only of	
x = B	
QED	