

LEMMA: spanning of VAL\*,
DIV/O\*,
ATM\*

VAL\* U DIV/O\* U ATM\* = EXP

PROOF

(NF)

Let normal forms = & VAL, DIV/O, ATM}

let & EXP

e a\* for some a B NF

eve wish to show that

the e simplifies to a unique normal form,

since the normal forms of -> are spanned by VAL, DIV/O, ATM

en a for some a E NF
by def.
e x*
THEORM: partioning of EXP by, VAL*, DIV/0*,
ATM*
the sets VAL*, DIV/O*, ATM* paintion EXP
PROOF
follows from the previous two lemmas Capanning & disjointedness of VAL*,
D1v /0*, ATM* )