lecture 19:

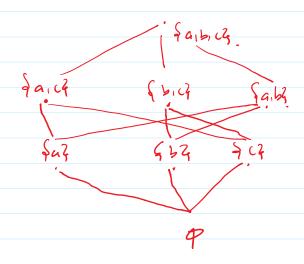
PARTIAL OFDER.

Ex 13 (P(S), S) S= Saibic3.
P509 1+Asse DiAGRAM.

P(S) XP(S). 2 (P(S)1 X (P(S)1 2 23 X 23 2 262 64.

R2 of (p), (p, fa?), (p, fb?), ---,

(fa? fa?), (fa?, faib?), (fa?, faic?), (fa?, faib), (fb?, faib), (fb?, faib), (fb?, faib), (fb?, faib), (fb?, faib), (fa.c?), (fa, fa; fa), (faib), faib), (faib?, faib), (faib?, faib), (faib), faib), (faib), (



Maxima): An element a ES is maxima in (S, E)

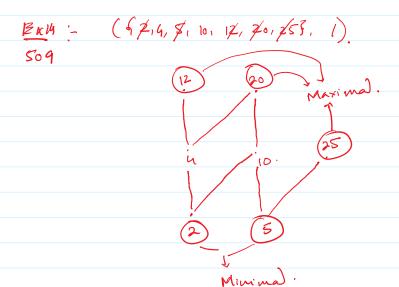
J JB such that a Lb.

(9,6) RR.

Minima):- An element a ES 15 minima in (SIE)

i) 7=16ES Such that 62a.

(Lia) E/R.



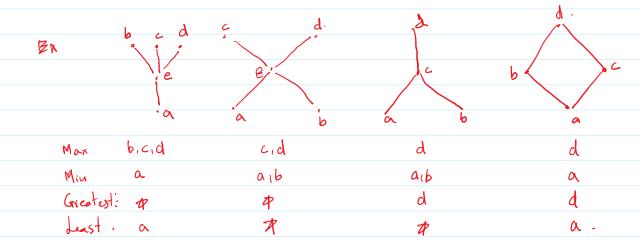
Greatest: a ES is greatest in (S, E)

ib thes bha.

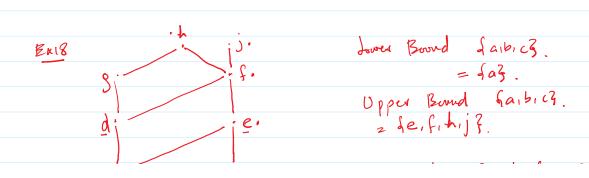
(b, a) ER.

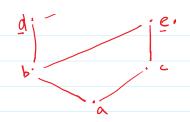
Least: a ES is Least in (SIG).

Hoss abb.



Minima =? Maxima =?





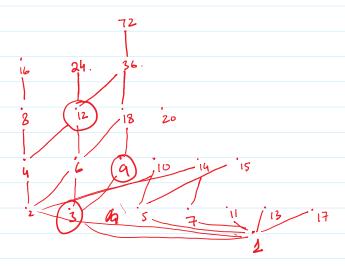
= de,f,h,jf.

greatest lower Board. daibil3 2 gaz.

Least Upper Bound faibies. 2 les.

dest Upper Bound Adie 3. = & fijits.

Ex20:- Greatest luver Board & Least Upper Board PSII of the Roset (2+ , 1). {3,9,12}.

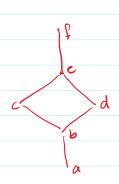


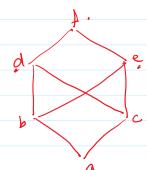
Junea Bound \$3,91124 = \$1133. GLB = 3. GCD = GLB.

Upper Board & 3,9,124. } 36,72,108,149 --- 7

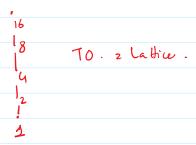
Last UB 2 36. LCM 2 LUB

Lattrice: A partial Order in which each pair of elements has GLB & LUB.





UBSbict z fdieifs.





25-067-2023.

