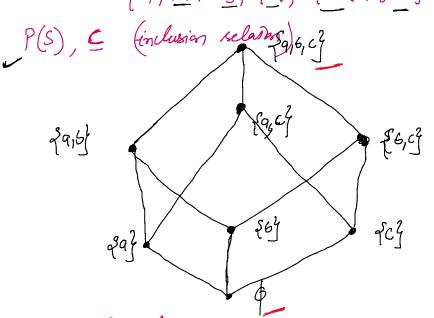
22 February 2022 11:04

 $S = \{a_1b_1c_1^2\}$ $P(S) = \{a_1b_1c_1^2, \{b_1^2, \{c_1^2, \{a_1b_1^2, \{a_1b_1^2, \{b_1^2, \{b_1$

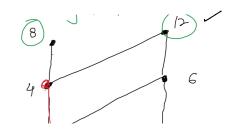


Maximal and Minimal elerrolle:

An elevent q a poset is called meximal if it is not less men any elevent q to set is a is the meximal in the poset (s, <) if there is no 6ES puch that a < b

My an elevent q a poset is called minimal if it is not greater than any elevent q se poset.

1.e a is minimal if these is no 6 such stat 649



Maximal classis =

8 ad 12

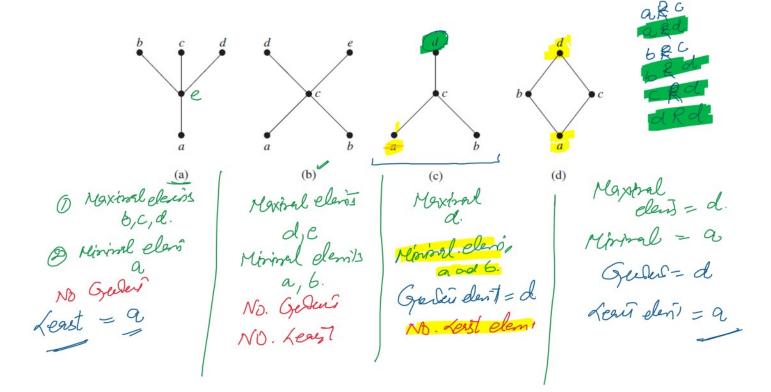
Minist classis

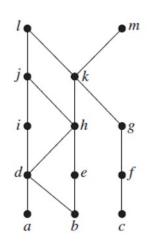
= 1.

8 ad 12 Minist desil # { \$2,4,5,10,12,20,25}, } Mich clesists of the postet are maximal. Minimal elevins = 2,5 Greatest and Least clerent: a is the greatest elevent 2 the posset (S, \leq) if $6 \leq a$ for all the greatest elevent is always unique (if it envists). a is the desirt elevist g the possit (S, S) if $a \leq b$ for all $b \in S$. The least clarent is always inique. (if it enists).

No Gratist element fin he above example

No Least deroit.





Maximal elevants = l, m Minimal elemes = a,6,C Greatest elevents = No Least elerst = No

72

12

48

11) THE HE GENESI IOWEL DOUBLE OF \$1.2, 4.23, IL IL CAISES.

36

18, 27, 36, 48, 60, 72}, |).

27, 48,60,72 a) Find the maximal elements.

NO

2,9 **b)** Find the minimal elements.

c) Is there a greatest element?

21

D) Tinu uie minimai elements.

c) Is there a greatest element?

NO.

d) Is there a least element?

