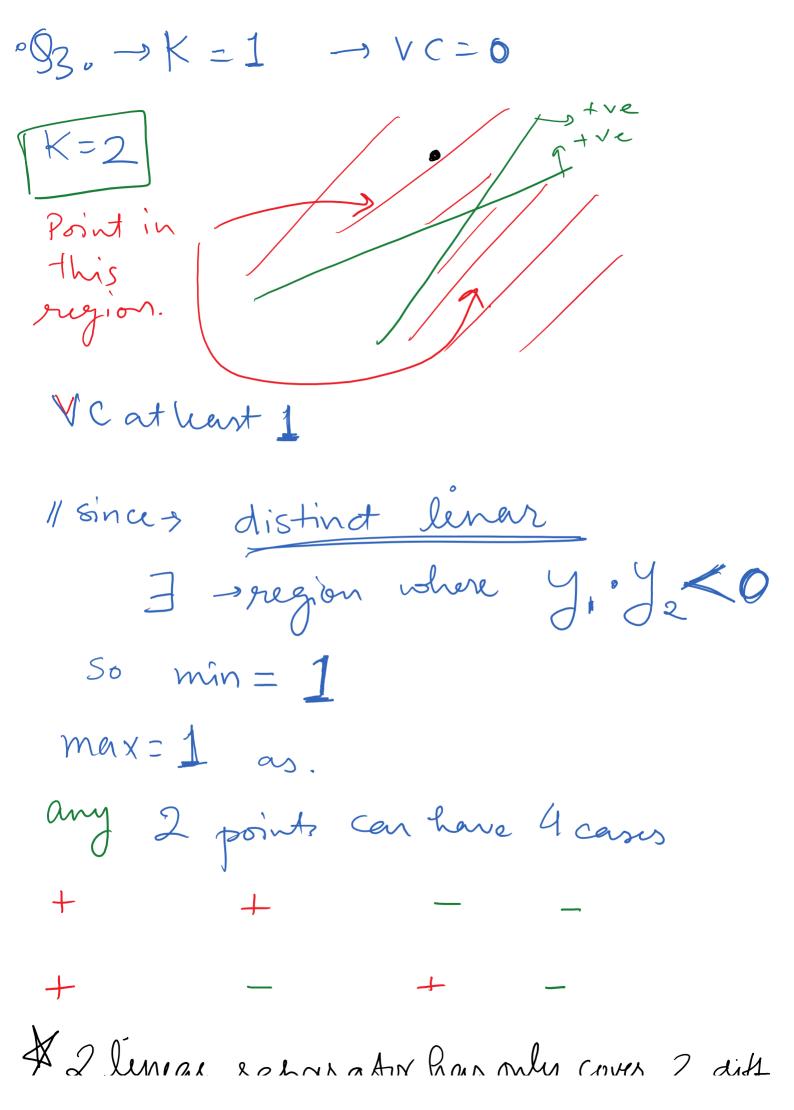
Pl. D2. · four point Combination of 2 Cs & 2 Rs & group points inside a box. -> C, C3 R, R3

Point inside. By Choosing. Kmin I mer Ymin Junear I point inside it. \* ·+ (  $\rightarrow$  max VC = 4// sonce it can shatter 4. -> it can

Shatter 3 y take ing. point.



\*2 linear separator has only cover 2 diff cases.

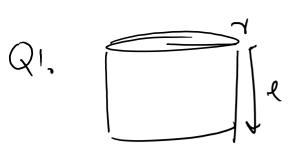
e K=3 lunear separator -> 2 region. max VC = 1 only as. Com cover only 2 case. - Ve region

Q.,

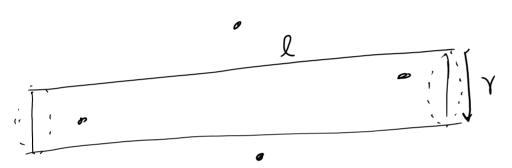
(a) If vc dim is V

$$M \ge \frac{1}{e} \left( \frac{4\ln 2 + 8 \cdot vc(H) \ln 13}{e} \right)$$

$$M \ge \frac{1}{-2} \left( \frac{4 \times \ln 2}{4 \times \ln 2} + 8 \text{ VC(H)} \right) \ln \frac{13}{62}$$

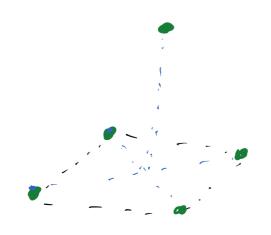


· VC dimension In 2D it can shatter 4 points as. it forms a restangle

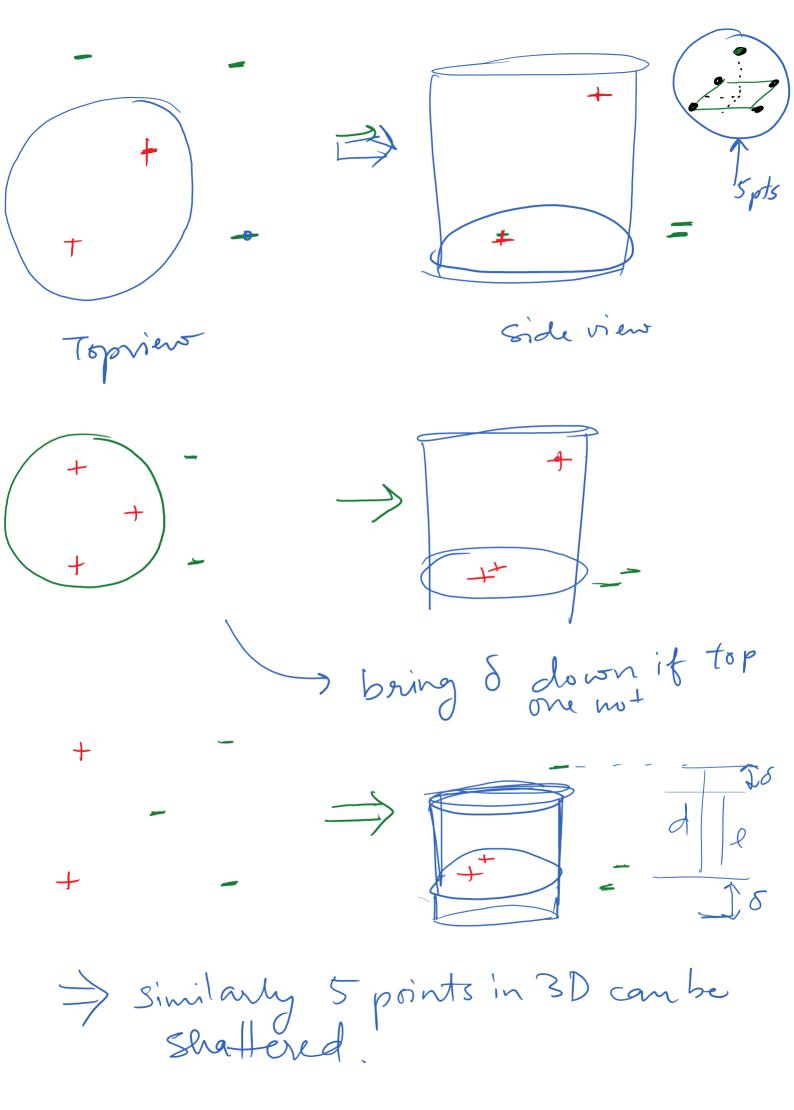


l= max distance b/w 2 points v < min distance b/w buny 2 points.

for n=5 Couridu space 4 points on square & one at the centre above height h.



Si de wew Topview



Grints +

9.1.a VC changes when you att www aylandurs.

S) > 1h 20. Apt can only be shatked by rectangle.