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Karnaught Maps (K-Maps)
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$$Y = A + BC$$
 three variables

mans combos $\rightarrow 2^m = 2^3 = 8$

Possible
$$A=1$$
 $A'=0$ combos A' B' C

Thus final terms,

Marking 1 for being prevent in the equation

8-4-2-1- Code 93 92 91 20 dor

for binary

For Eg. ABC' ⇒ 110

22 21 0 Adding —

Bottom tright represent binary.

For Min terms, Denotion (1 in kmap)

$$y = \sum_{m} (3,4,5,6,7)$$

=> AB'C' + AB'C + ABC' + ABC + A'BC

For Marx terms, Denotion (0 in KMap)

Terminalogy
reverses in Min

$$y = \pi (3,4,5,6,7)$$

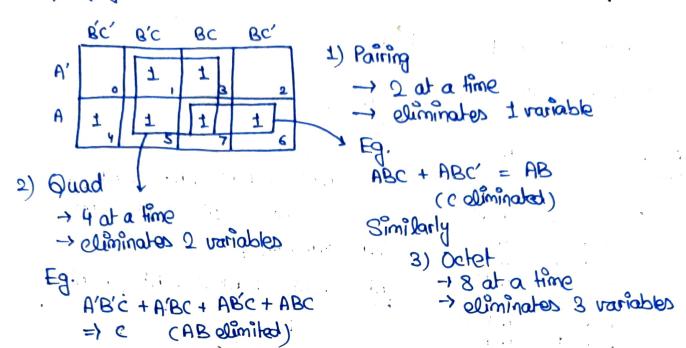
mancterms (capital)

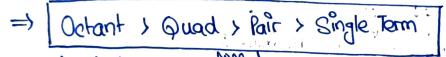
$$\Sigma \Rightarrow 80P$$

$$\pi \Rightarrow P08$$

R-Wat is now to

: Reduces the expression



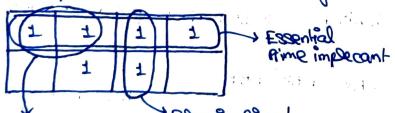


- t=X <= transport one filled

 All Min terms are proport => Y=1
- o If none boxes are filled.

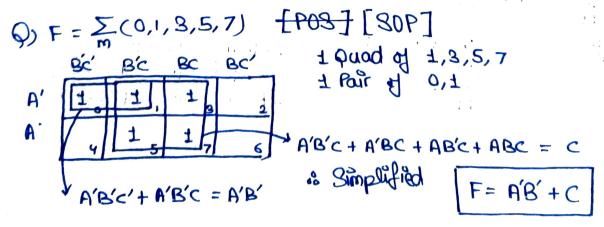
 A None min terms are provint => Y = 0

Prime Implicant Essential (PI)
Implicants aren't subsets of any implicant



NOT a Prime implicant Essential

should have atleast one covered yet.



9)
$$F = \pi(0,1,3,6,7)$$
 [PO8]

