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Date: / / K map for 4 variableno of cells = 24 = 16 K map rules for SOM Simplifications (SOP) 1. Croups may not contain zero. 2. We can group 1,2,4,8 or 22 cells. 3. Each group should be as large, as possible. 4. Cells Containing I must expression. (For each product term but I corresponing place in kmap) 5. Granups may overloap. In kmap)
6. Opposite grouping and corner grouping:
is allowing.
7. There should be as less groups as POSSible. Kmap, only 1 is considered in

K map sules for POS Simplifications! 1. Granups many not contain one. 2. We can group 1, 2, 4, 8: 27 cells. 3 Each group should be as large as possible. 4. cell must contain o for each sumed pertitet term or numbers. 5. Crossup may overlap.

6. Opposite grouping and coomers grouping is allowing.

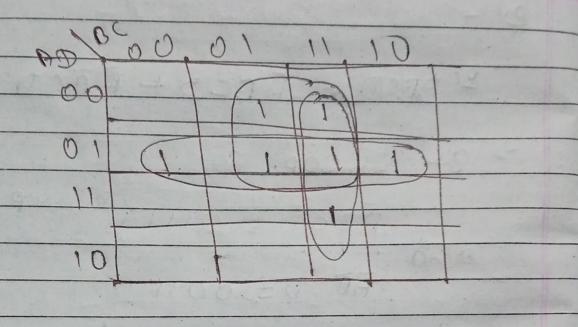
7. There should be a few group as possible. MOTE: - In Case of Sop for each number or product term we use & implace of that in K-mail. term or number we use o implace of that fu K-map.

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Date: / / CX. -P(ABCD)= FBCD+FBCD -> 9+ 121250p. So, ABCD => 0011 (POL SOP A >1)

ABCD => 0011 which we can show in kmap as. NOTE! - After grouping if group is in · if itièm me sour, multiple colomn fitel common digit in colour that will be final ans after merging with sour

common in oblivous that will be final and after mersing with colour.

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(ADC+ ADC) + AD + BC

= ACTAD+BC

0

NOTE: - In one group find common digit or numbersoin now part and colour part.