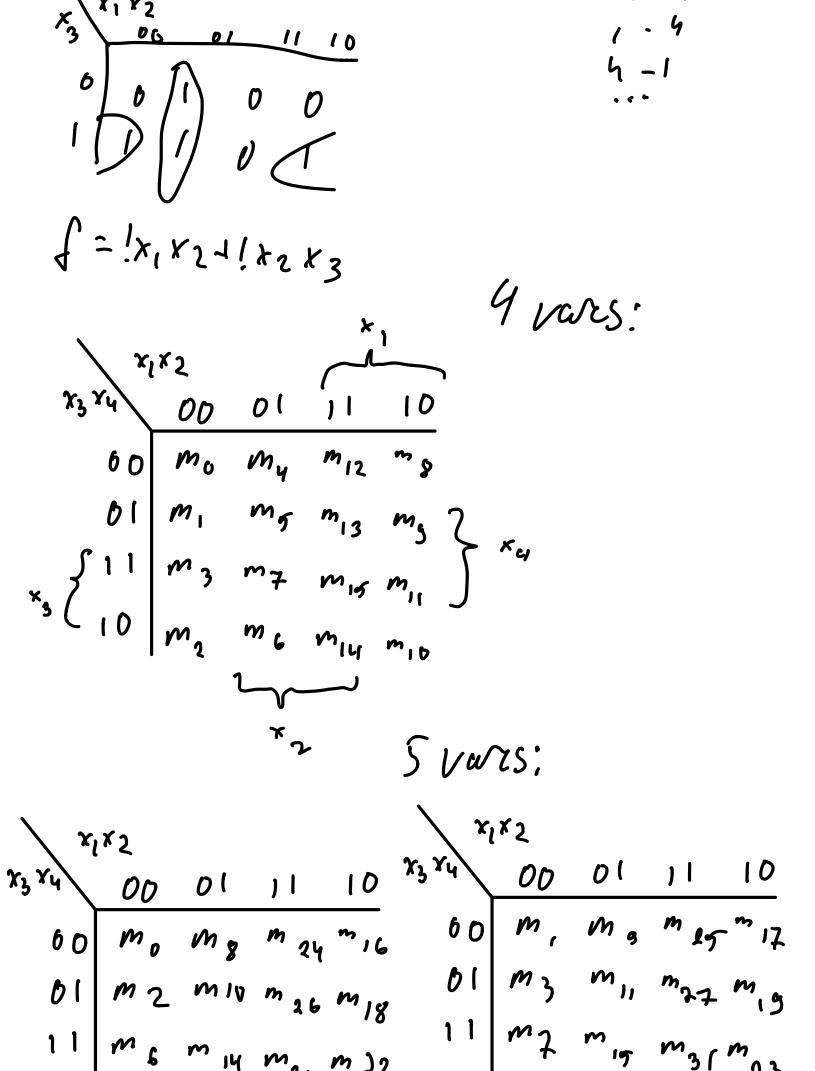
Karnaugh mup

 $\gamma_{1} \times_{2} \int_{(x_{11}x_{1})}^{(x_{11}x_{1})} x_{1} = 0$ $0 \quad m_{0} \quad m_{2} = 0$ $0 \quad m_{1} \quad m_{1} \quad m_{3} = 0$ $0 \quad m_{2} = 0$ $0 \quad m_{2} = 0$ $0 \quad m_{3} = 0$ $0 \quad m_$

b X 3 vars: D 0 60 61 0 0 $0 \mid m_0 m_2 m_4 m_5$ 0 Can combine 2,4,8...

2x adj. cells Group rect area:



10 my m12 m28 m 70 10 mg m13 m29 m21 xyzu x5 =1 Literal - unique variable Implicant-possible sets of 1s: - minterens (for Zm (112,5) = 3)

- all possible k-map sets

- for maps: (x4 2000) Prime Implicant - the largest rectangles on K-map: -1x1 lif K-map has x vars, all - x2x3 exp mily x-1 orlus crue pure implicants) Cover - collection of all possible implicants
that oreale a logically equivalent exp - each 1 individually

1/2 1/4 x 2 -1 / x 2 -1 / 2 x 3 (lx Lyroups) -1 x ~ x x x x 3 (2x2 < 2x/g224ps) Minimum cost circuit is the cover of a given function that consists of the prime implicants Essential peine implicants— p.i. that in cludes a mintern not included in any other p.i.

hin sop of pos:

find essential p.i.

chose one non essential p.i.

finish the cour

chose a disferent n.e.p.i.

Sinish the coner compare the cost