① BCD to Binary

① (1001 0110) ← BCD

9 6 ← Decimal

② (0110 0001) BCD

(?)10

(61)10

(111101) Binary

2	96	
	48	0
	24	0
	12	0
	6	0
	3	0
	1	1
		1

↑ (1100000) Binary

① Binary to BCD

① $(1000\,0110)_2 \Rightarrow$ (?) BCD

$2^7\ 2^6\ 2^5\ 2^4\ 2^3\ 2^2\ 2^1\ 2^0$

$= 1\ 0\ 0\ 0\ 0\ 1\ 1\ 0$

$= 1\times2^7 + 1\times2^2 + 1\times2^1$

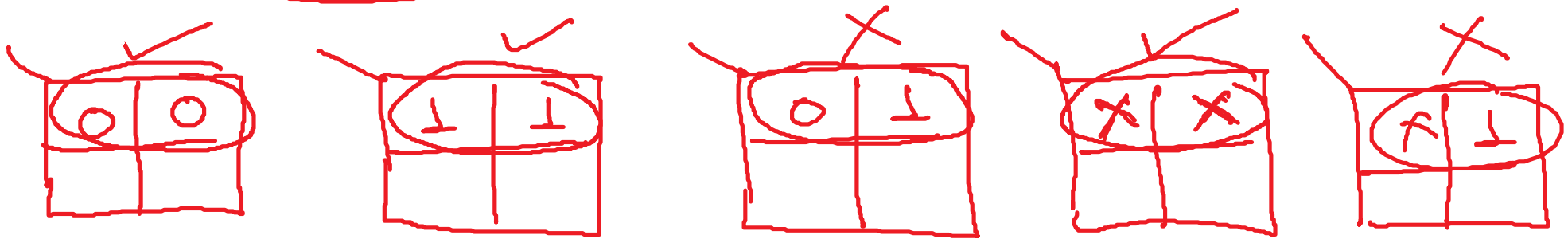
$= (134)_{10}$

(0001 0011 0100) BCD

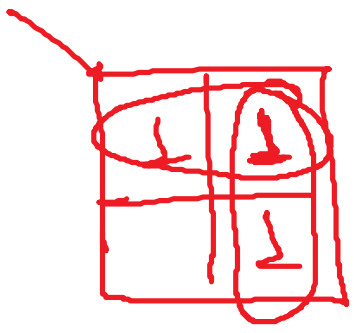
Saturday, January 7, 2023 3:56 PM

Rules of K-Map

Rule 1



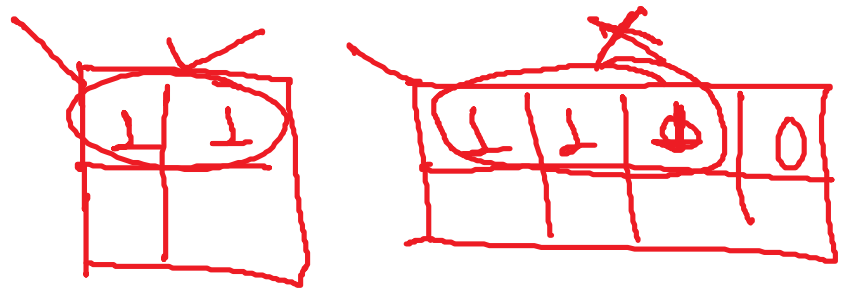
Rule 2



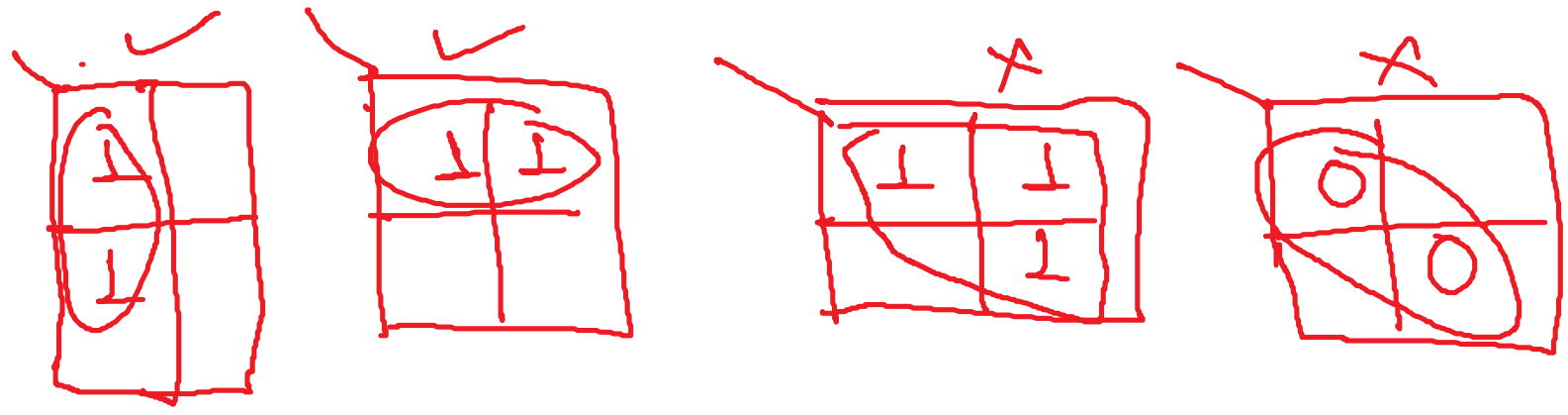
Rule 3

power of 2

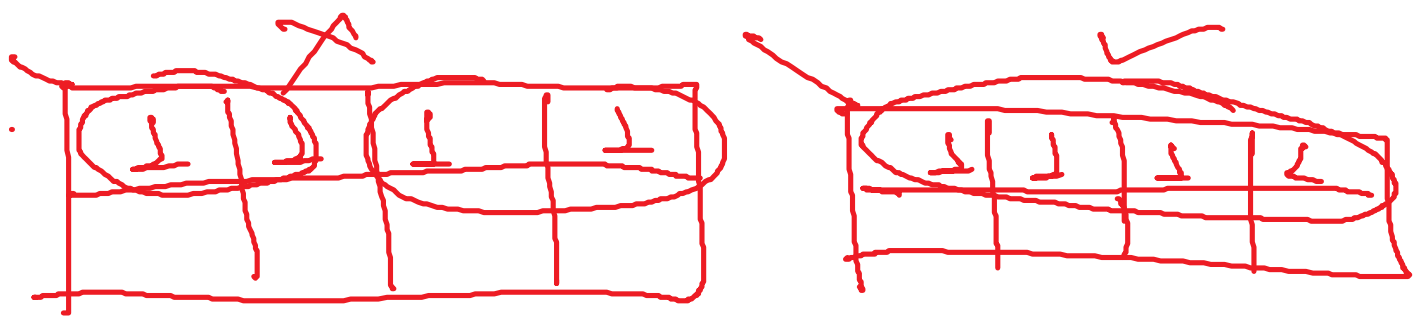
1, 2, 4, 8, 16 ----



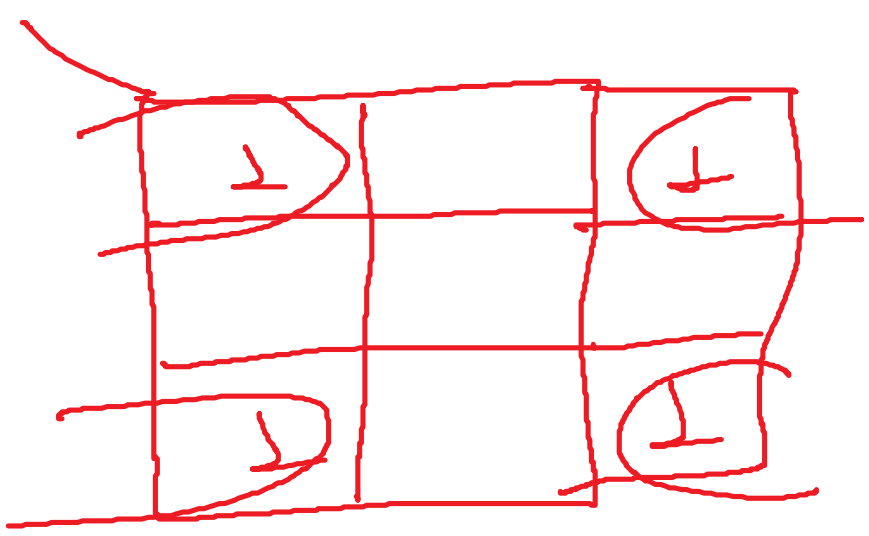
Rule 4



Rule 5:



Rule 6



Rule 7 As few group as possible