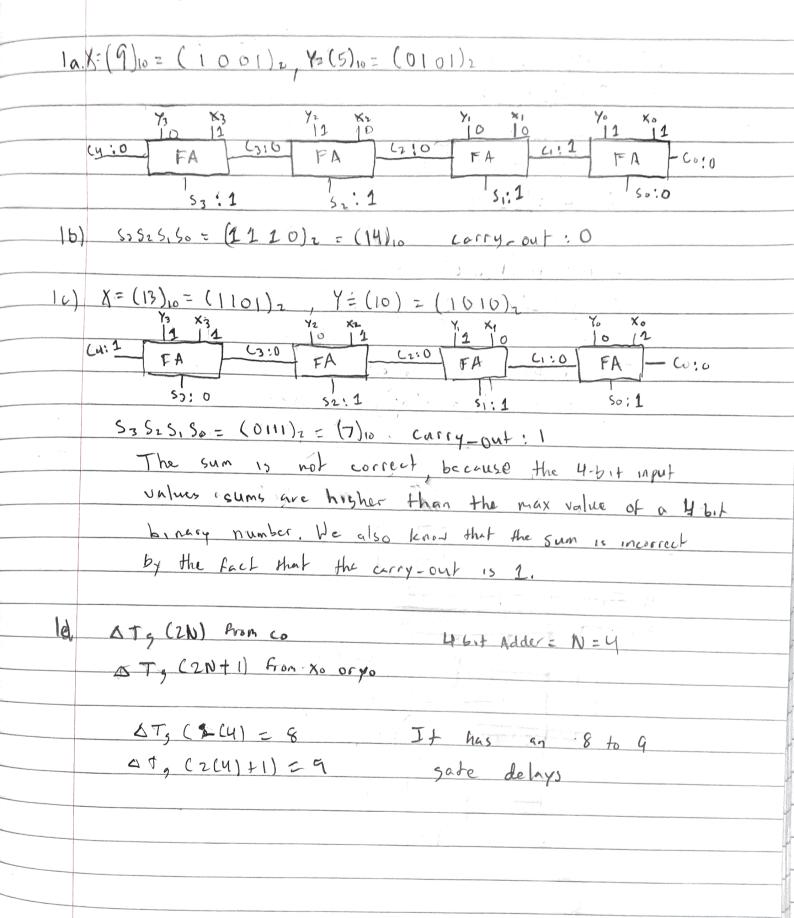
Homework 4



$$2a$$
, $c0 = a0 \oplus b0 \oplus c0$ $c0 = 0$
 $c1 = a0b0 + b0c0 + a0c0$ $c0 = 0$
 $c1 = a0 + b0$
 $c2 = a1b1 + b1a0 + a1a0 +$

3 a) A=(7)10 = (0111)2 B=(7)10 = (0111)2 B complement = (1000)2 C-IN=1 , SO B/= 1001 $\frac{0111}{1000} = (0000)_{2} = 0$ 3aii) A=(7)10) = (0111)2 B=(0)10 = (0000)2 B complement = (1111)2 #10000 ([0111]2 -> (0111)2 = 7 omnitted A=(0)10= (0000)2 B= (7)10= (0111)2 B complement = (000)2 3 aiii 0000 $\frac{+1000}{1000} \Rightarrow (1000)_{2} = -7$ A=(0) 10 = (0000)2 B=(0)10 = (0000)2 B-conput = (1111) = 3 air 110000 - 3 (0000) = 0 34. $A = (7)_{10} = (111)_2$ $B = (7)_{10} = (111)_2$ $B complement = (000)_2$ C = 12 = 1 + 0 $\frac{690}{000}$ $\frac{111}{1200}$ $\frac{111}{2000}$ $\frac{111}{2000}$ $\frac{111}{2000}$ $\frac{111}{2000}$ 1000 -> (000)2 - 0 some rosult as ai but only with 3-bits

