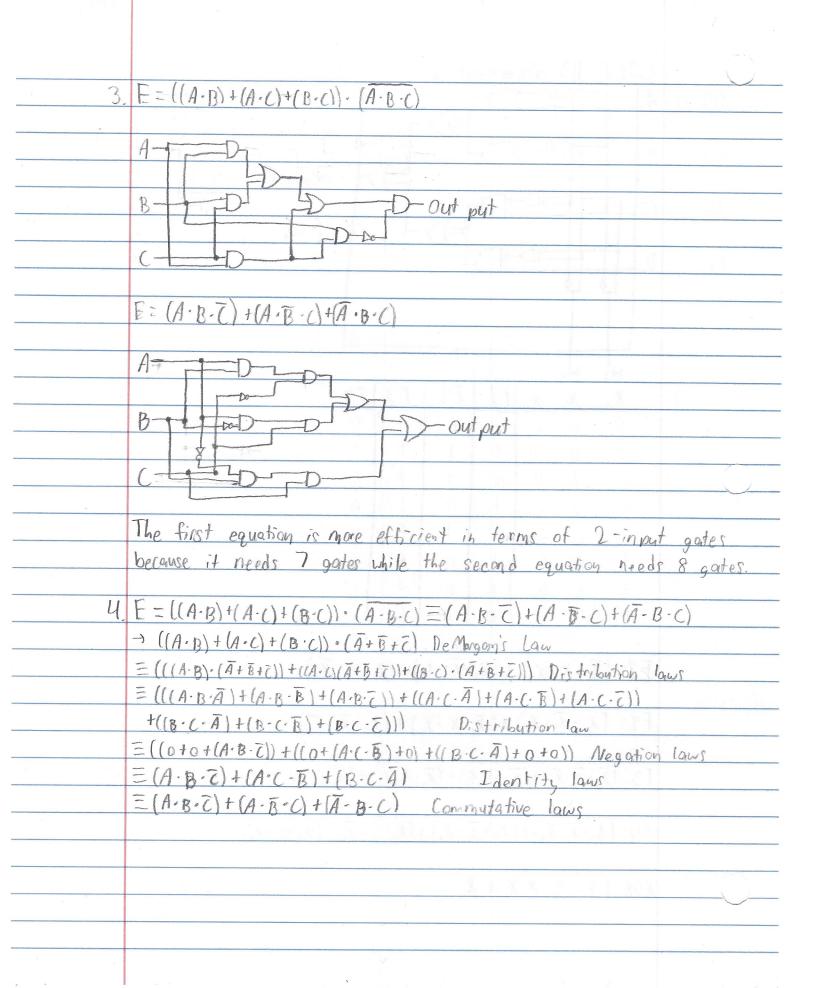
	CSCI 113 Assignment 1
00 1)	A FOOD
e1	B B D D
	Out put
10	CHIPPID
demonstrate programmers and the second	
0	$X_0 \times X_1 \times F1 = F2 = F3 = F4$
L,	
	0 0 0 0 0 1 0
	0 1 0 0 1 1 0
	0 1 1. 0 1 0
	10001
	710110001
: f:	
	1. 1. 1. 0. 0. 0. 1
<u> </u>	in the second of
	$F1: (\overline{X_0} \cdot X_1 \cdot X_2) + (X_0 \cdot \overline{X_1} \cdot X_2) + (X_0 \cdot \overline{X_1} \cdot \overline{X_2})$
	F_{2} , $(\overline{X}_{0} \cdot \overline{X}_{1} \cdot X_{2}) + (\overline{X}_{0} \cdot X_{1} \cdot \overline{X}_{2}) + (X_{0} \cdot \overline{X}_{1} \cdot \overline{X}_{2})$
	F3: $(\overline{X_0} \cdot \overline{X_1} \cdot \overline{X_2}) + (\overline{X_0} \cdot \overline{X_1} \cdot \overline{X_2})$
	F. (V = -) (V = V) (V V = V)
7	Fy: (Xo·X,·X2)+(Xo*X,·X2)+(Xo·X,·X2)+(Xo·X,·X2)
	XOR F2: Xo & X, & X2
	NOW 15 WO WY WY
, A	



f \ \	
5.	$XOR = (A \cdot \overline{B}) + (\overline{A} \cdot B) \equiv (A + B) \cdot (\overline{A} \cdot B)$
	-> ((A·B)+A)· (A·B)+B) Distribution laws
	$=((A+\overline{A})\cdot(\overline{B}+\overline{A}))\cdot((A+B)\cdot(\overline{A}+B))$ Distribution laws
	$=(1\cdot(B+A))\cdot((A+B)\cdot 1)$ Negation laws
	$\equiv (\bar{B} + \bar{A}) + (A + B)$ Identity laws
	= (A+B) · (B+A) Commutative Laws
	$\equiv (A+B) \cdot (\overline{A}+\overline{B})$ Commutative laws
	$\equiv (A+B) \cdot (\overline{A} \cdot B)$
6.	XOR = A & B & C Out put
	0 0 0 0
	$XOR = (A \cdot B \cdot C) + OOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOO$
	$(\overline{A} \cdot \overline{B} \cdot \overline{c}) + 0 0 1 0$
	$(A \cdot B \cdot C) + O \mid 1 \mid O$ $(A \cdot B \cdot C) \mid O \mid 1$
	1 0 1 0
	1 1 0 0
<u></u>	
	A PO-
7	
	B Out put
	po D
1	·
7	