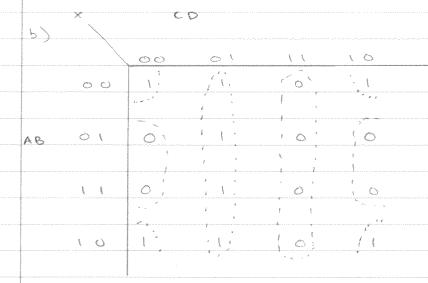
Assignment \$ 2.

Question 1

a) ET = (ABCD)+ (ABCD) + (ABCD) + (ABCD) + (ABCD) + (ABCD) + (ABCD) + (ABCD)

 $\Pi \stackrel{?}{\checkmark} : (A+B+\overline{c}+\overline{D})(A+\overline{B}+\overline{c}+\overline{D})(A+\overline{B}+\overline{c}+\overline{D})$   $(\overline{A}+\overline{B}+\overline{c}+\overline{D})(\overline{A}+\overline{B}+\overline{c}+\overline{D})(\overline{A}+\overline{B}+\overline{c}+\overline{D})(\overline{A}+\overline{B}+\overline{c}+\overline{D})$ 



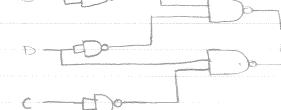
 $\Xi \Pi = (\overline{B}\overline{D}) + (\overline{C}\overline{D})$   $\Pi S = (\overline{B} + \overline{D}) \cdot (\overline{C} + \overline{D})$ 

d) £ [ : x = ( 6 0 ) + ( 0 )

X = (BO)+(ED)

X 2 (B D ) 0 (C D)

NAND-NAND implementation:



	e) let En = x.	a contract of the second	
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	X = (BD) + (CD)		
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	$\overline{X} = (\overline{B} + \overline{D}) \cdot (\overline{C} + \overline{C})$	Б.)	
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	X = BC + BD +	DC	
	X = BC - BD .	Approximately	· · · · · · · · · · · · · · · · · · ·
	^ 5c 5d	D C	
	X = (B+C)·(B+	0).(0+2)	
	QUESTIONS.	S Extra part since the	
		0's can be grouped	
		together in more than	
<u> </u>		2 ways	

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