Chapter 1

$$\frac{2)}{T} D_0 = \frac{PN}{T} \times 100\%$$

$$= \frac{1}{2} \times 100\% = 50\%$$

$$D_1 = PW \times 100\%$$

b) Do: 0101010101010101 3000 0001

DI: 0011001100110011

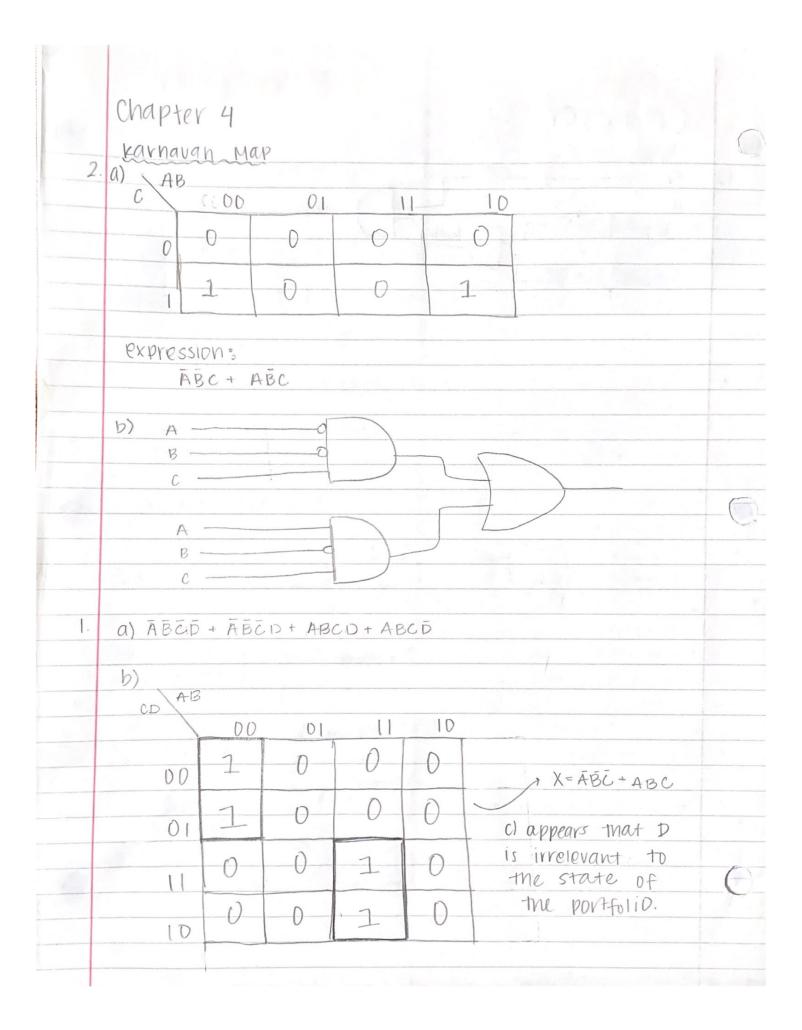
D2: 00001111000011111

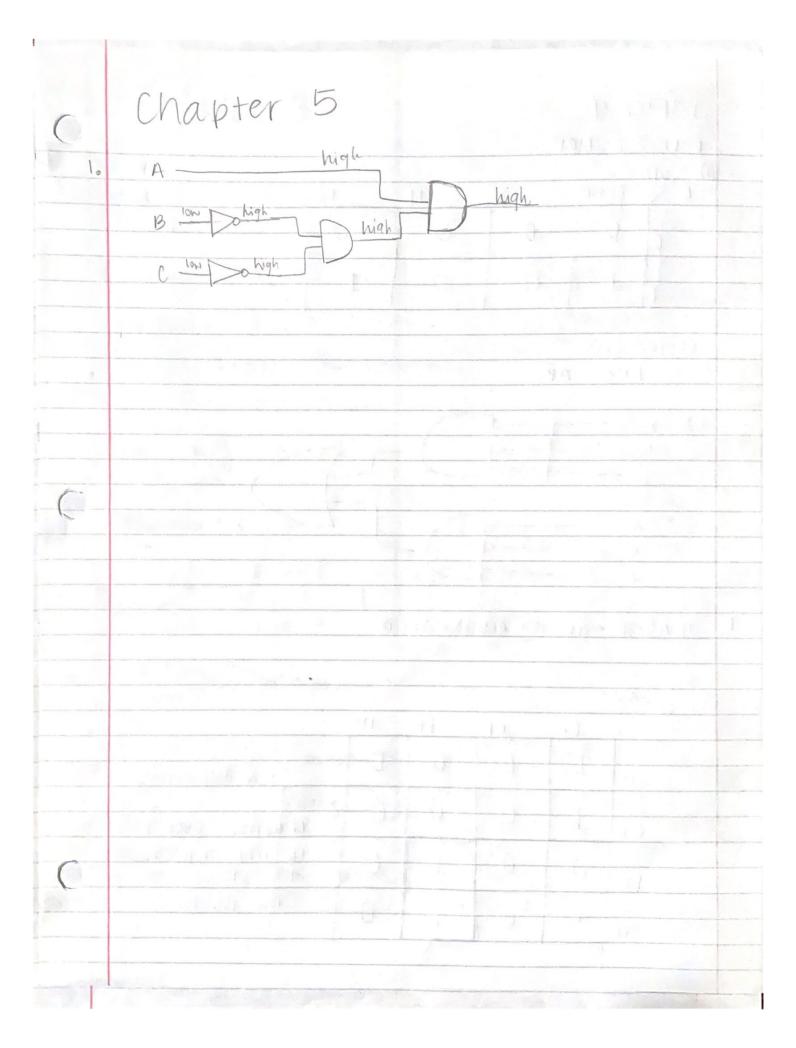
D3: 0000000011111111

The sequence of numbers represent data that can be interpreted as a number, location, shifts for a registrar or etc.

41111

		6
2.	X:	
-		
		The second secon
		-
3.	a) total la make	
-	2) total bitrate	
	4MHZ = 4 microsec	+
		-
	b) 4(4) = 16 imicrosec	
		-
		-
	NOS VICE	
	CONT. Chapter 2	
		0
4.	a) o bit changes	
	() Filad areal Adams	
	c) 2" = 16 possible distinct angles	
<	360/16 = 22.5° the anguar precision	
3	d) 23 = 256 100 mm and a modern of the	
	210 1 201 1 110 +100 010 100 100	
	360/256 = 1.4° the anguar precision	
	the the same treatings are not provided the	
	the state of the s	
		(
i-		
,		





Chapter 3

	α=1				
	bel	10	m -	table	1
1.	simplified logic expression:	1		ren	170
-	=([(ab)a](ab)b])([(ab)a]((ab)b])	A	B	004	-
-	\	U	. 0		
-	$= \left(\left[(\overline{ab})a \right] \left[(\overline{ab})b \right] + \left(\left[(\overline{ab})a \right] \left[(\overline{ab})b \right] \right)$	() =		0	1
	= ([(05)0]((06)6)) + ([(06)0]((06)6))	-1	0	0	
	$= \left(\left[\overline{ab} + \overline{a} \right] \left[\overline{ab} + \overline{b} \right] \right) + \left(\left[\overline{ab} + \overline{a} \right] \left[\overline{ab} + \overline{b} \right] \right)$				
	= ([ab+ā][ab+b]) + ([ab+ā][ab+b]	A TO	Sales Sales		
	= (ab+ab)+(ab+ab)				
	= (ab + āb)				-
				1	1
-0-	· generale XOR-gate				1
	0 1 2 3 4 5 6 7 8 9 10 11 1	21 13	14	15	
2.	Out:	1	-		
	0 1 1 0 0 1 1 0 0 1 1 0 0) 1	1	0	
3.	a) A in paigh @ mo +V				
	B ON _	***			
	1) (101)				-
	b) A TON ON TON TON				-
	C) A I)		19		100
	PB F			1	
	C	-/			
0					
· 6 · 19					
3		- 16		-	
-					

Chapter 2

4		
4. 0	8 bit changes	
-(/	O DIT STANDE	
b)	1100	
/	1100	
()	24=16 distinct angles	
07	360 / 10 = 22.5°	
7		
d)	28 - 256	
(1)	360/256 81.40	
	300/250 211	
1.	a) 1024 b) 0xBBBB	c)-2048 2"=2049
10	2'°= 1024 B=11	
	1000 0000 000 101110111011	1000 0000 0001
-		(w/ sign bit at the
		beginning)
2.	a) 65535 b) 100	0100010001000
20	11	000=8
	4095	883816
-	16 (65535	
	SOLFFFF	
	95 80 15 - F(0)	
	2 1024	
	32 128	12000
	89 80 95 22 10	so 20008
	$\frac{80}{95}$ $\frac{80}{15}$ $ F(1)$ $\frac{10}{15}$ $ F(2)$ $\frac{10}{15}$ $ \frac{10}{15}$ $ \frac{10}{15}$ $ -$	
	110 1255	(0)
15.15	95 80 81128	
	95 80 15 - F(2) 40	
	15-F(2) 48 40 00-(1	
	8116	+
	8114	
		(2)