Assignmengt1 11810417 Tian Geng March 29, 2020

1 2/170 1	7 .		
1.247.8 ba	se 3 :		
Division	Quotient	Remainder	
247/3			
82/3	27		
27/3	9	0	
9/3	3	0	
3/3	1	0	
1/3	0	1	
Therefore, 2		00//3	
		-1.2 0.2x3=0.6 0.6x3=	:/. 8
		[,2 0,2 x3 = 0.6 0.6 x3	
			_
Theretore,	(24/,8/10%	$\approx (000 , 2 0)_3$	
		/3	

2/17 8 1 /1			
247.8 base 4			
Division	Quotient	Remainder	
247/4	6 /	3	
61/4	15	/	
15/4	3	3	
3/4	0	3	
Therefore, 24			
0.8 × 4 = 3.2	0,2 X4=0.8 ().7×4=3.2 0.2	284=08
Therefore, (24)	$78)_{10} \approx (3313)$	30)	1 210
171010/07/07(-17	0)10	14	

247.8 base 5	_		
	Quotient	Remainder	
247/5	49	2	
49/5	9	4	
9/5		4	
	0	[
1/5 Therefore,	247,0 = 140	125	
0.885=4.0			
Therefore, (2	247.8)10 = (1	442.4)5	
. / / -	,		

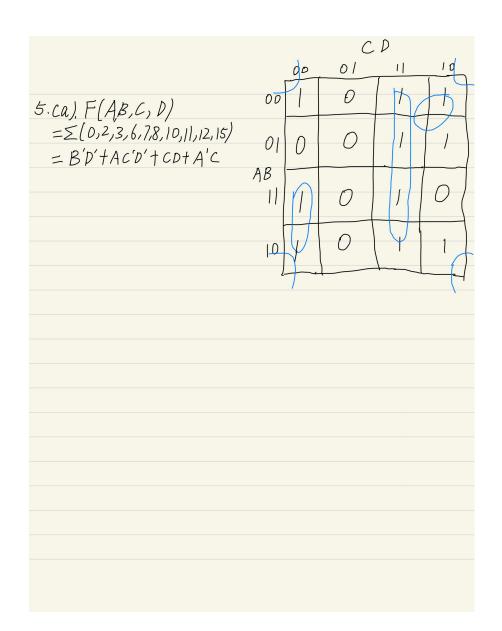
247.8 base 1			
Division	Quotient	Remainder	
247/11		5	
	2	0	
2/11		2	
Therefore, 24			
$0.8 \times 11 = 3$	8.8 0.8×11=	P. 7	
Therefore, (24	47.8)10 × (205.8	3),,	
7,70,070,0		711	

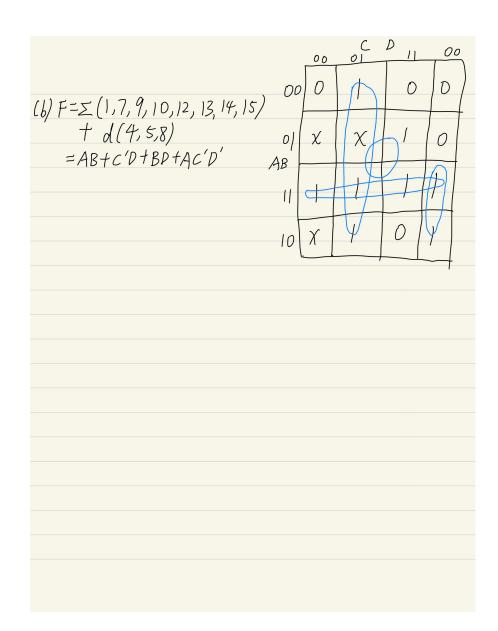
247.8 base 16	
Division Quotient Remainder	
247/16 15 7 15/16 0 15/F Therefor, $247_{10} = F7_{16}$	
15/16 0 15/F	
Therefor, 247,0 = F/16	
0.8 × 16 = 12.8 0.8 × 16=12.8	
Therefore, (247.8),0~(F7.C)15	

2. This is a $Y-1$'s complement. $(AAA)_{11} - (349)_{11} = (761)_{11}$
The 10's complement of (349), is (761),.

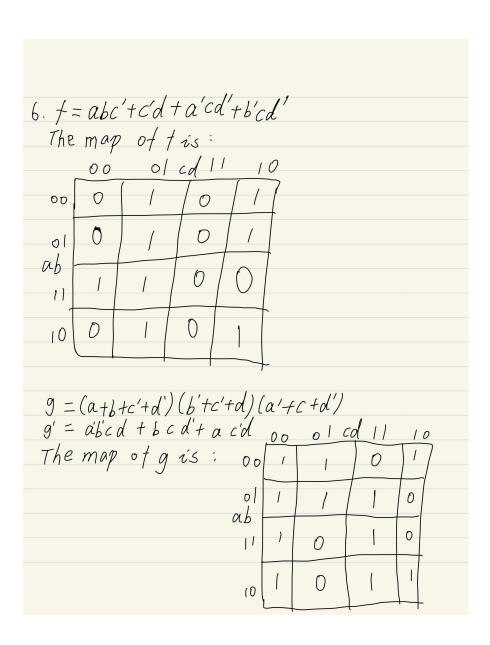
3. (a). $A = 1, B = 0, C = 1$
Hence, A'=0, B'=1, C'=0
Hence F = ABC+AB = · · O + · O = O
$(1) \cap P = 1 \cap P$
(b) A=0, B=1, C=1 Hence, A'=1, B'=0, C'=0.
Hence, F=AB'C' +AB = 0.0.0 + 0.1 = 0
TIDILE, 1 - 1/10 - 0 0 0 1 0 1
(c) A=0, B=0, C=0
Hence, A'=1, B'=1, C'=1
Hence, F=ABC'+AB=0.1.1+0.0=0.

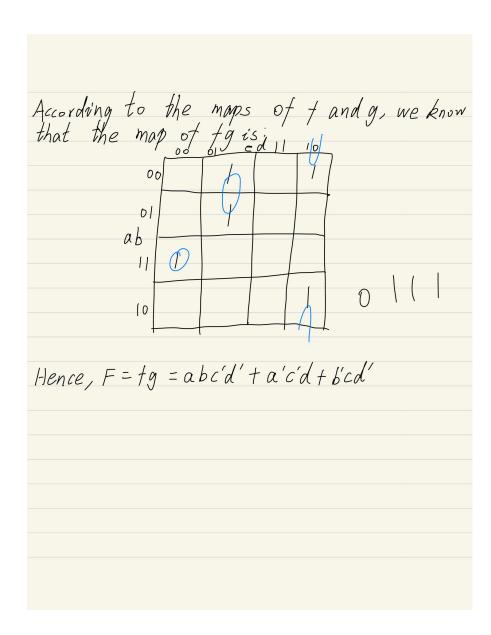
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4.(a) F = \Sigma(1,2,5,6)
        = A'B'C+ A'BC'+ AB'C+ ABC'
        = (A'+A) B'C + (A'+A) BC'
        = B'C+BC'
 (b) F= \(\Sigma(0,1,2,3,7)\)
       = A'B'C' + A'B'C + A'BC' + A'BC + ABC
       = A'B'(c'+c)+A'B(c+c')+ABC
       = A'B'+A'B+ABC = A'(B+B')+ABC = A'+ABC
 (c) F = \Sigma(3,5,6,7)
       = A'BC+AB'C+ABC'+ABC
       =A'BC+AB'C+AB(C+C')
       =A'BC+AB'C+AB
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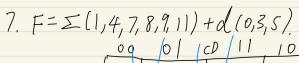


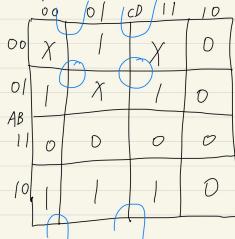


$Cc) \neq = \pi(0,2,8,11,13,15) \\ + d(1,9,10,14) \\ F' = w'x' + w' + w' + w' + w' + w' + w' + w'$
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Hence, F = A'C' + A'D + B'c'+ B'D

