	Jalen Powell 09/24/2021
	Elec 2200
	Hw 12
6.43	
1.	minterms: \(\Sigma(2,45,7)\)
	X2 X1 XA
0	6 0 0 9= x2x1x0 + x2x1x0
1	0 0 1 + x2x, x0+ x2 4, y0
2	O 1 0 > X2 X1 X0 & convert to M
3	6
4	1 0 0 $\Rightarrow x_2 \overline{x}, \overline{x}_0 M = (X_2 + \overline{X}_1 + \overline{X}_0)(\overline{X}_2 + \overline{X}_1 + \overline{X}_0)$ 1 0 1 $\Rightarrow x_2 \overline{x}, \overline{x}_0 (\overline{X}_2 + \overline{X}_1 + \overline{X}_0)(\overline{X}_2 + \overline{X}_1 + \overline{X}_0)$
2	$1  0  1 \rightarrow x_2 \times x_2 \times x_3  (\overline{X}_2 + \overline{X}_1 + \overline{X}_3) (\overline{X}_2 + \overline{X}_1 + \overline{X}_3)$
6	
7	1 1 1 7 x2 x1 x0
	X 2 X2
	X Do XI
	Yo Xo
	×2
	X <sub>1</sub>
	x0/0-M
	<u>X2</u>
	X <sub>1</sub>
100	Xz
	XI XI
	LDOO
	The second

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2.										A
۷.					y	20	7			116
	Х3-		-	1	- U	20				
			100	1016	2	50-		11	= (x3 X2	V
	X 2_		10	ecoder	- 9	10-		70-9	= ( X3 X2	M. F
	N				S. C.	0	11/1/			
	X.				W.	2			12	
	Xo_				9n 9n 9n	0_				
	10_			-				a		
					3.6			1		
									19.00	
	Ха	X 2	χ,	Xo	I Q	#3 1s			4	
0	0	0	0	6	0	0			A LIS	3
	0	0	6	1		1 (odd)				
2	0	0	1	6	1	1 (odd)			1 - 1	
3	6	0	1	1	0	2	Zm=	1,2,4,7	,	
ц	0	1	6	0		1 (odd)		8,11,13,	4)	
5	0	1	0	1	0	2		,		
6	6	-1	1	0	0	2 0	TIM=	(0,3,5,4	0,	
٦	6	1			1	3(odd)		9,10,12	1	
8	1	0	0	0	11	1 (odd)		12)		-
9	1	0	6	1	0	2×	17			
10	-	0	1	6	0	2			1 4 1	
- 11	1	D	1			3 (odd)			1.2 00.0	
12	1	1	6	6	0	2 1x				
13	1	-	6	1		3 (odd)		The state of the s		
14	1	1		6		3 (odd)				
15	1	1	1	-	101	4				
						ΔX				
										-

