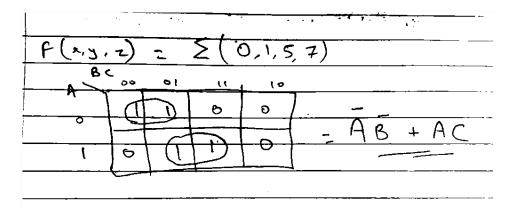
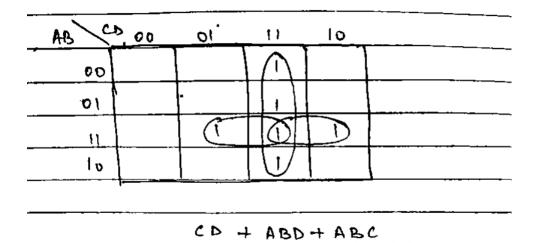
Practice sheet 2 solutions

Q1.

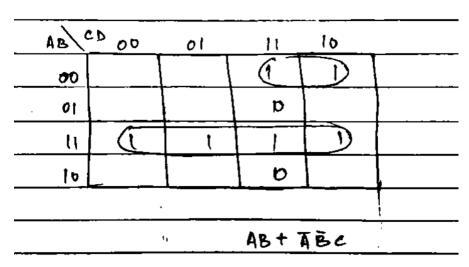
a.



b.



c.

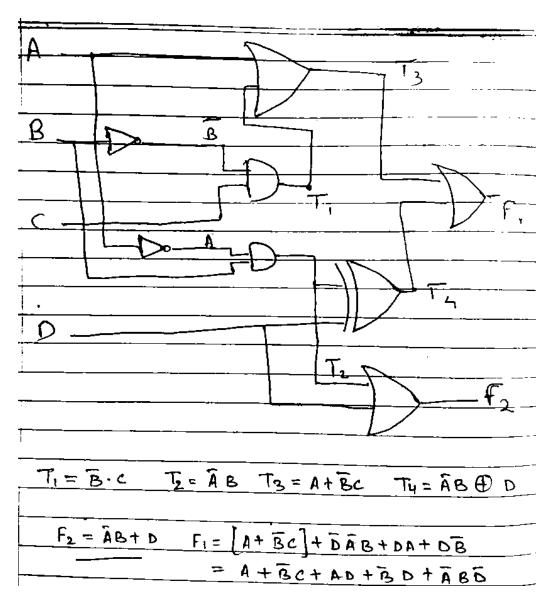


$$F(\omega, x, y, 3) = E(1,3,7,11,15)$$

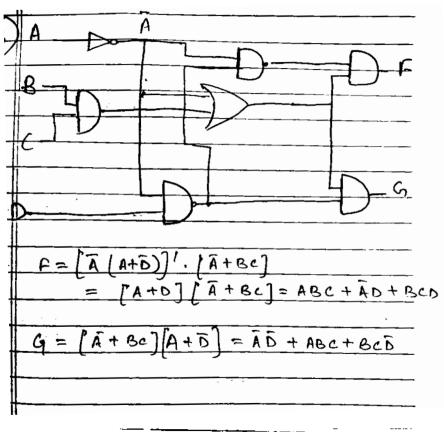
$$L(\omega, x, y, 3) = E(0,2,5)$$

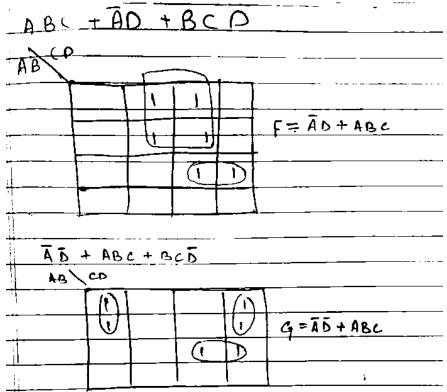
$$F = (0001, 0011, 0111, 1011, 1111)$$

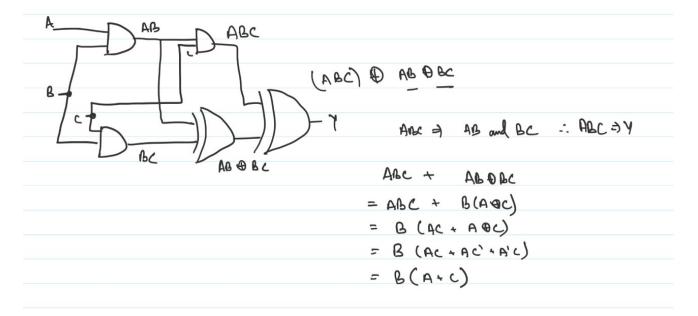
$$L = (0000, 0010, 0101)$$



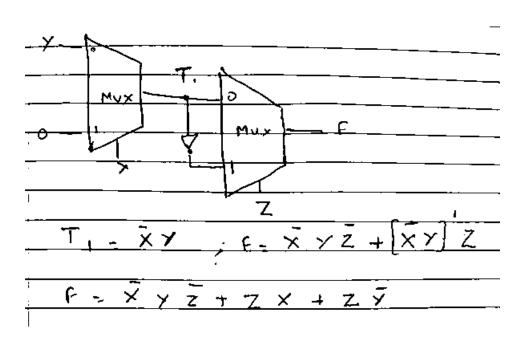
$$= A + B'C + B'D + BD'$$
$$= A + B'(C + D) + BD'$$







5.



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	d	0	ţ	1				
	0	Ĺ	0	1	P(x,y,z) =			
	۵	,	1_	0	= x y z+ x yz+ x yz			
		0	0_	0	- x y + x y z			
		0	\\	10	$-\frac{1}{\sqrt{y}}(\bar{y}+\bar{z})$			
		1	10	0	$ \begin{array}{c} \uparrow(x,y,z) = \\ = \overline{x} \overline{y} \overline{z} + \overline{x} \overline{y} \overline{z} + \overline{x} y \overline{z} \\ - \overline{x} \overline{y} + \overline{x} y \overline{z} \\ - \overline{x} (\overline{y} + \overline{z}) \end{array} $			
		,	1	10				
×								
5 —								
	7							

b.

		<u> </u>	
×	*	XZ	OUT
	9	0	<u> </u>
0 \	ъ -		-0 $= f(x,y,z)$
0		0	1 = 10
	 		0 - x y z + x y z +
6_	1	0	XŸZ+XYZ
	1 0	1.	0
	 0	 	$-\bar{x}\bar{z}+x\bar{z}$
	1	10	
,- 1	1	1	0.5 = Z
	· · ·	,	10:

