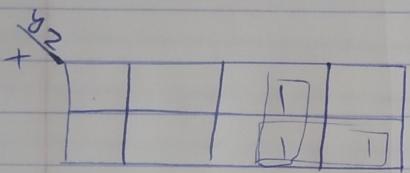


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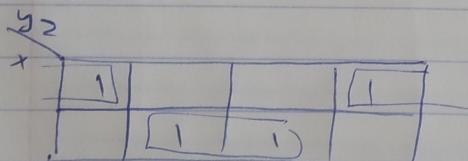
Q1)

x	y	z	A	B	C
0	0	0	0	0	1
0	0	1	0	1	0
0	1	0	0	1	1
0	1	1	1	0	0
1	0	0	0	1	0
1	0	1	0	1	1
1	1	0	1	0	0
1	1	1	1	0	1

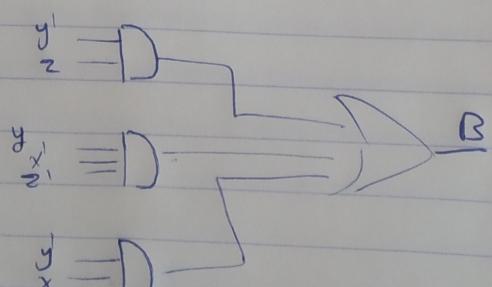
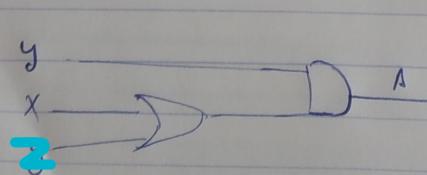


$$A = yz + yx \Rightarrow A = y(z+x)$$

$$B = y'z + y'x + x'yz'$$



$$C = x'z' + xz \Rightarrow C = x \odot z$$



(Q2)

as ds, L.

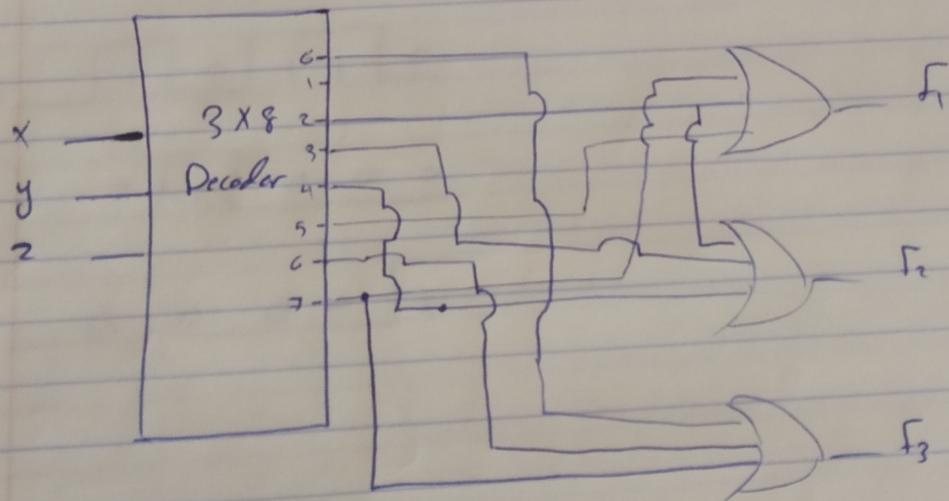
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$$F_1 = x'y'z' + xz$$

$$F_2 = xy'z' + x'y$$

$$F_3 = x'y'z' + xy$$

x	y	z	F_0	F_2	F_3
0	0	0	0	0	1
0	0	1	0	0	0
0	1	0	1	1	0
0	1	1	0	1	0
1	0	0	0	1	0
1	0	1	1	0	0
1	1	0	0	0	1
1	1	1	1	0	1



Q3)

دیار علی عدوه
201810668

A_0 $\boxed{1} \boxed{1} \boxed{1} \boxed{0} \boxed{0} \boxed{1}$

A_1 $\boxed{0} \boxed{1} \boxed{1} \boxed{1} \boxed{0} \boxed{0}$

A_2 $\boxed{0} \boxed{1} \boxed{1} \boxed{1} \boxed{1} \boxed{1}$

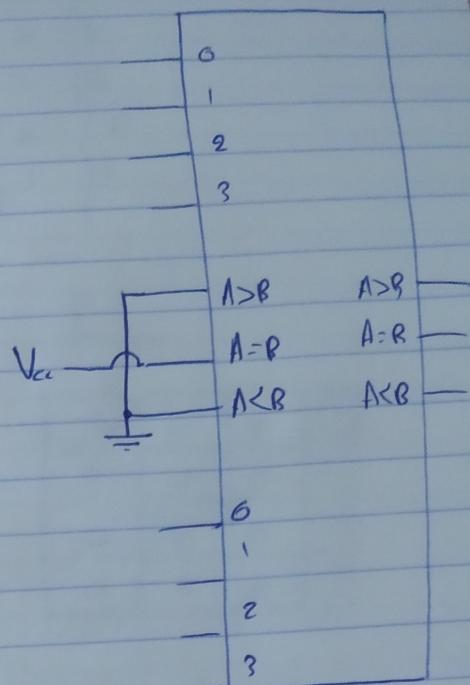
A_3 $\boxed{1} \boxed{1} \boxed{1} \boxed{1} \boxed{1} \boxed{0}$

B_0 $\boxed{0} \boxed{1} \boxed{0} \boxed{1} \boxed{1} \boxed{0}$

B_1 $\boxed{0} \boxed{1} \boxed{1} \boxed{1} \boxed{1} \boxed{0}$

B_2 $\boxed{1} \boxed{1} \boxed{1} \boxed{1} \boxed{1} \boxed{1}$

B_3 $\boxed{0} \boxed{1} \boxed{0} \boxed{0} \boxed{1} \boxed{1}$



A_1

$A > B$ $\boxed{1} \boxed{0} \boxed{1} \boxed{1} \boxed{0}$

$A = B$ $\boxed{0} \boxed{1} \boxed{0} \boxed{0} \boxed{0}$

$A < B$ $\boxed{0} \boxed{0} \boxed{0} \boxed{0} \boxed{1}$

G_u)

work done
2018/06/08

$$\begin{array}{cccc|ccc} D_3 & D_2 & D_1 & D_0 & X & Y & Z \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 & 0 & 1 \\ 0 & 0 & 1 & 0 & 0 & 1 & 1 \\ 0 & 1 & 0 & 0 & 1 & 0 & 1 \\ 1 & 0 & 0 & 0 & 1 & 1 & 1 \end{array}$$

for X

(X)	0	0	0
1	0	0	0
1	X	X	X
0	0	0	0

for Y

(X)	0	0	1
0	0	0	1
0	0	0	1
1	0	0	0

$$x = P_1 P_0'$$

$$y = P_0 (P_1 + P_2')$$

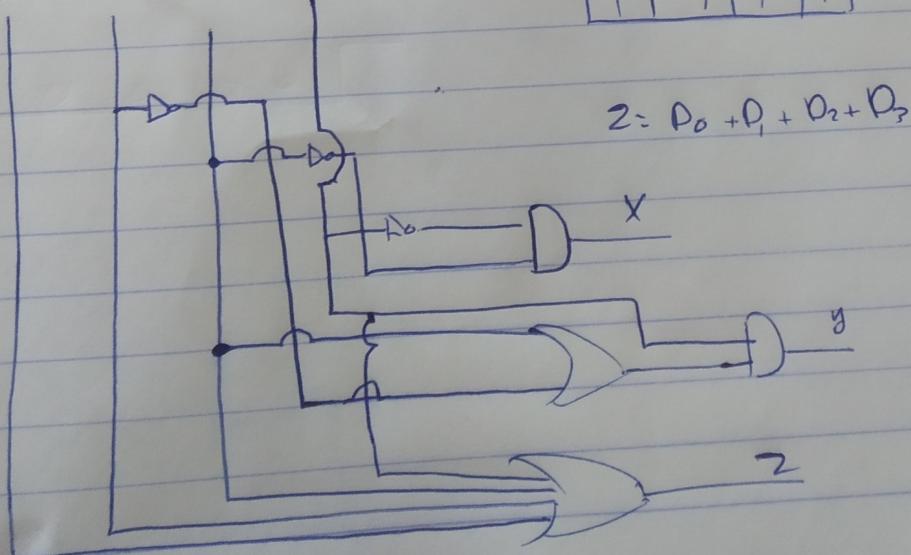
$$z = P_0 + P_1 + P_2 + P_3$$

$$y = P_1 P_2' + P_2 P_0$$

for Z

0	1	1	1
1	1	1	1
1	1	1	1
1	1	1	1

$P_3 \quad P_2 \quad P_1 \quad P_0$



Q5)

A B C D | F

0 0 0 0
0 0 0 1

1
0 $F_0 = P'$

0 0 1 0
0 0 1 1

1
0 $F_1 = P'$

0 1 0 0
0 1 0 1

0
1 $F_2 = P$

0 1 1 0
0 1 1 1

0
0 $F_3 = 0$

1 0 0 0
1 0 0 1

1
0 $F_4 = P'$

1 0 1 0
1 0 1 1

1
0 $F_5 = P'$

1 1 0 0
1 1 0 1

0
0 $F_6 = 0$

1 1 1 0
1 1 1 1

1
0 $F_7 = P'$

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