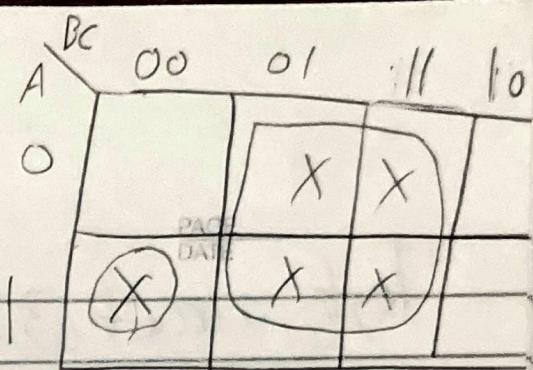


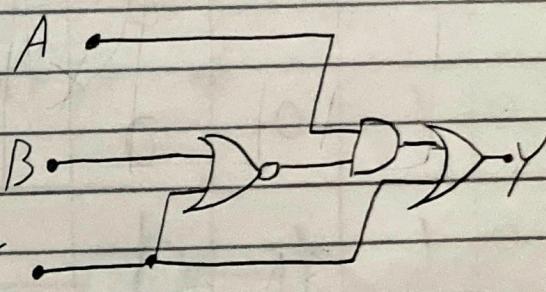
A	B	C	Y	Test circuit 1
0	0	0	0	
0	0	1	1	
0	1	0	0	
0	1	1	1	
1	0	0	1	
1	0	1	1	
1	1	0	0	
1	1	1	1	

Test circuit
1

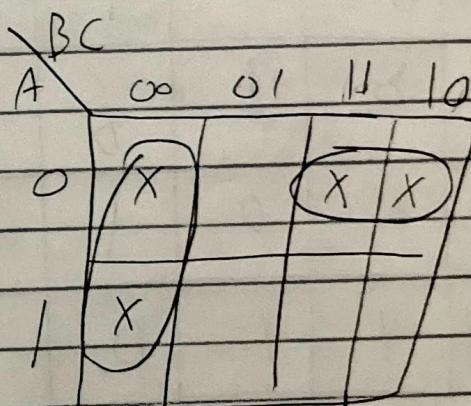


$$f(A, B, C) = (\bar{A}\bar{B}\bar{C} + C)$$

$$= (\bar{A}(\bar{B} + C) + C)$$



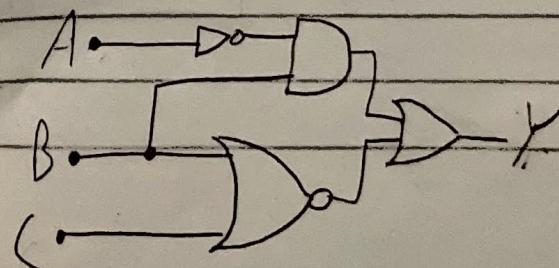
A	B	C	Y
0	0	0	1
0	0	1	0
0	1	0	1
0	1	1	1
1	0	0	1
1	0	1	0
1	1	0	0
1	1	1	0



$$f(A, B, C) = \bar{B}C + \bar{A}B$$

$$= (B + C) + \bar{A}B$$

Test circuit
2



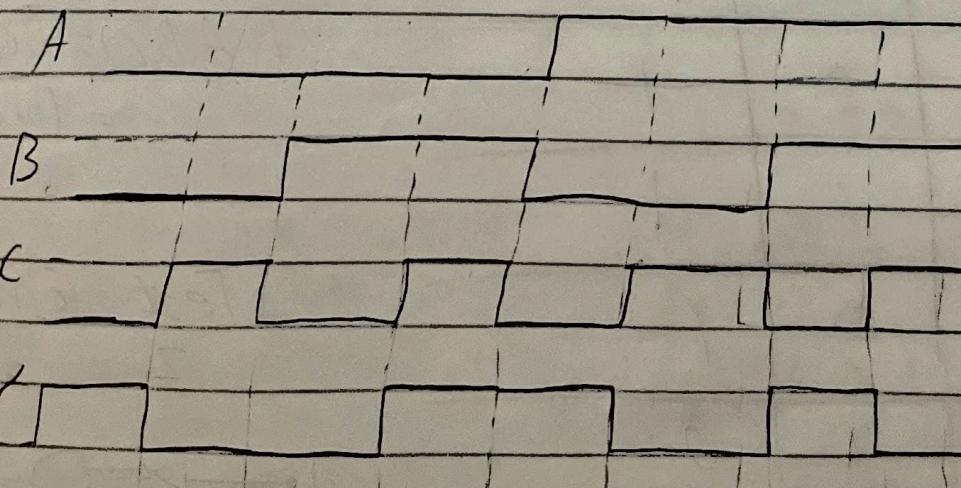
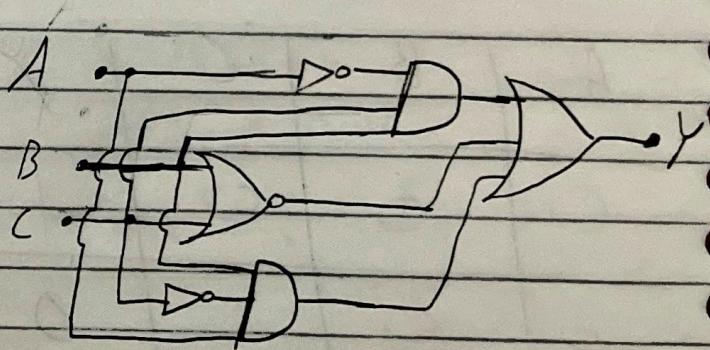
Test circuit 3

A	B	C	Y
0	0	0	1
0	0	1	0
0	1	0	0
0	1	1	1
1	0	0	1
1	0	1	0
1	1	0	1
1	1	1	0

A	B	C	00	01	11	10
0	(X)		(X)			
1		(X)		(X)		

$$\bar{B}\bar{C} + \bar{A}\bar{B}C + A\bar{B}\bar{C}$$

$$(\bar{B}+C) + \bar{A}\bar{B}C + A\bar{B}\bar{C}$$



Test circuit 3

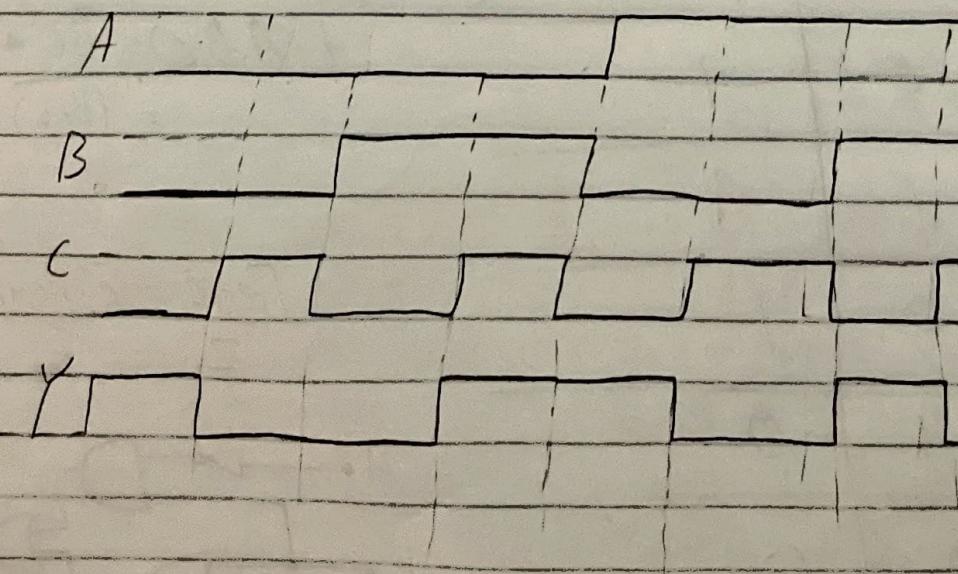
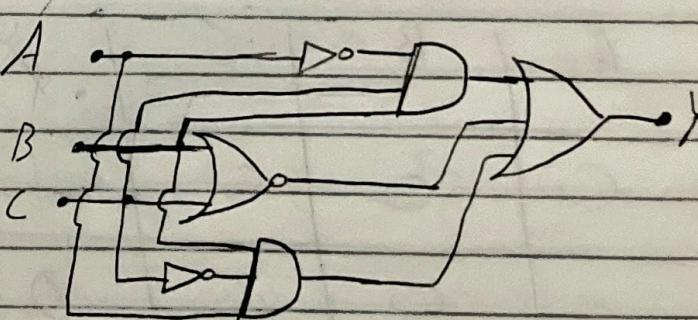
A	B	C	Y
0	0	0	1
0	0	1	0
0	1	0	0
0	1	1	1
1	0	0	1
1	0	1	0
1	1	0	1
1	1	1	0

PAGE
DATE

A	B	C	00	01	11	10
0	(X)		(X)			
		1	(X)			
						(X)

$$\bar{B}\bar{C} + \bar{A}\bar{B}C + A\bar{B}\bar{C}$$

$$(\bar{B}+\bar{C}) + \bar{A}\bar{B}C + A\bar{B}\bar{C}$$



Test circuit 4

A	B	Y
0	0	1

0	1	0
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1	0	0
---	---	---

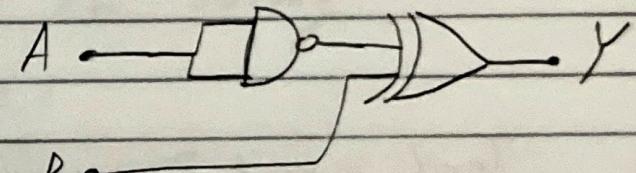
1	1	1
---	---	---

A	B
0	0

0	X
---	---

1	X
---	---

$$\bar{a}\bar{b} = ab$$



Wave diagrams

A

B

Y

can be remodelled

to
XNOR

Test circuit 5

A	B	Y
0	0	1

0	1	0
---	---	---

1	0	1
---	---	---

1	1	1
---	---	---

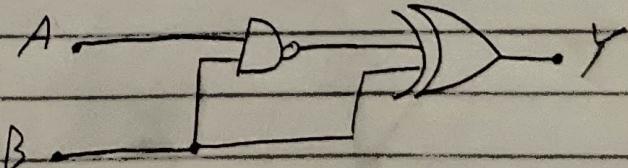
A	B
0	0

0	1
---	---

1	0
---	---

1	1
---	---

$$\bar{b} + a$$

Wave
diagram

A

B

Y

Test Circuit 1 wave form

A

B

C

Y

Test circuit 2 - wave form

A

B

C

Y