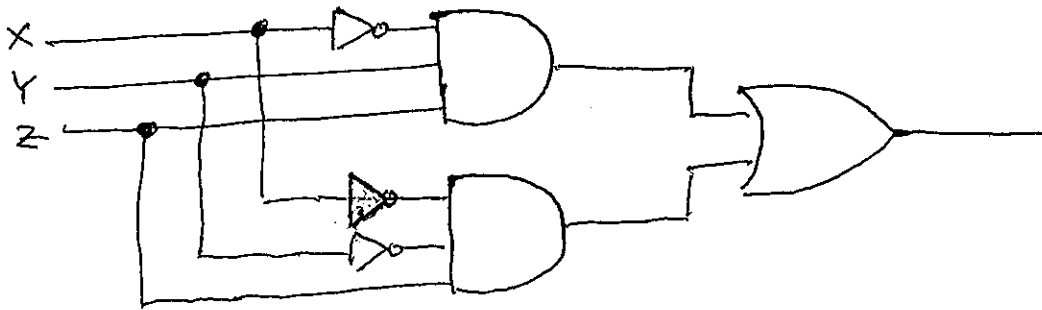


1. Write a DNF Boolean expression whose output is given by the table below.

$$(\neg X \wedge Y \wedge Z) \vee (\neg X \wedge \neg Y \wedge Z)$$

X	Y	Z	
1	1	1	0
1	1	0	0
1	0	1	0
1	0	0	0
0	1	1	1
0	1	0	0
0	0	1	1
0	0	0	0

2. Design a Boolean circuit for your answer to Question 1.

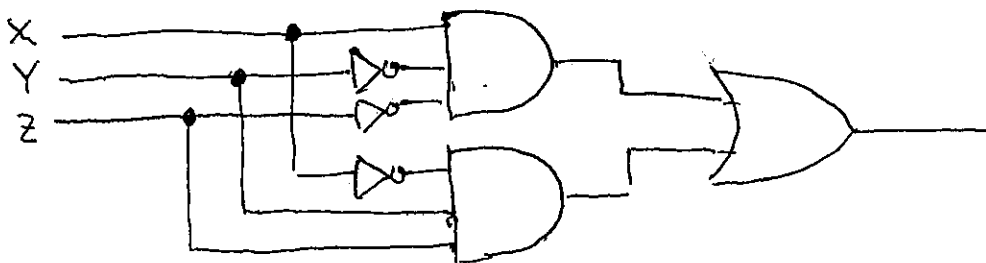


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$$(X \wedge \neg Y \wedge \neg Z) \vee (\neg X \wedge Y \wedge Z)$$

X	Y	Z	
1	1	1	0
1	1	0	0
1	0	1	0
1	0	0	1
0	1	1	1
0	1	0	0
0	0	1	0
0	0	0	0

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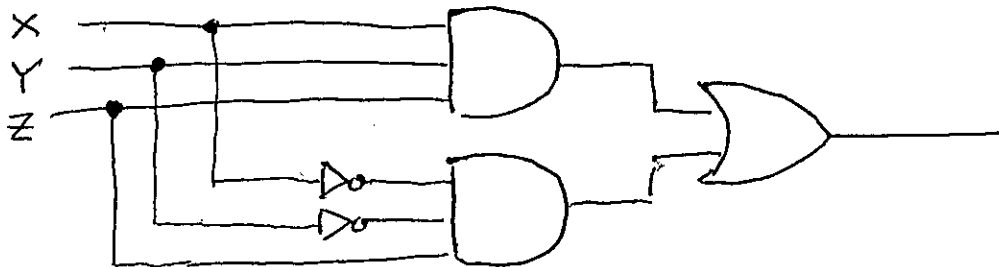


1. Write a DNF Boolean expression whose output is given by the table below.

$$(X \wedge Y \wedge Z) \vee (\neg X \wedge \neg Y \wedge Z)$$

X	Y	Z	
1	1	1	1
1	1	0	0
1	0	1	0
1	0	0	0
0	1	1	0
0	1	0	0
0	0	1	1
0	0	0	0

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