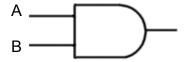
Logic Gate Worksheet

 A Logic circuit has two inputs being X and Y fill in all the possible combinations.

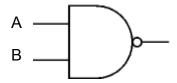
X	Υ

2. Name the Logic Gate and make a truth Table for each of the following :

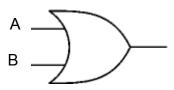
a.



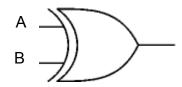
b.



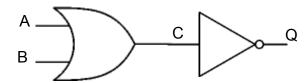
C.



d.

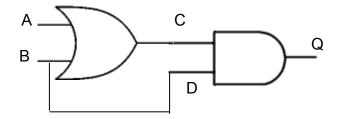


3. The figure below shows a logic circuit and its incomplete truth table. Complete the below truth table.



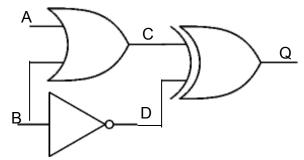
Inputs		Outputs	
Α	В	С	Q
0	0		
0	1		
1	0		
1	1		

4. The figure below shows a logic circuit and its incomplete truth table. Complete its truth table.



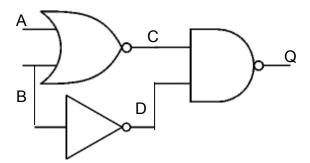
Α	В	С	D	Q
0	0			
0	1			
1	0			
1	1			

5. The figure below shows a logic circuit and its incomplete truth table. Complete the below truth table.



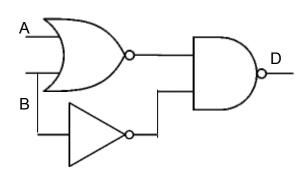
Α	В	С	D	Q

6. The figure below shows a logic circuit and its incomplete truth table. Complete the below truth table.



Α	В	С	D	Q

7. For the logic circuit below complete the truth table.



Α	В		D

Answers:

1.

X	Υ
1	0
1	1
0	0
0	1

- 2. a) 0
- b) 1 c) 1 d) 1

3

Α	В	С	Q
0	0	0	1
0	1	1	0
1	0	1	0
1	1	1	0

4.

Α	В	С	D	Q
0	0	0	0	0
0	1	1	1	1
1	0	1	0	0
1	1	1	1	1

5.

Α	В	С	D	Q
0	0	0	1	1
0	1	1	0	1
1	0	1	1	0
1	1	1	0	1

6.

Α	В	С	D	Q
0	0	1	1	0
0	1	0	0	1
1	0	0	1	1
1	1	0	0	1

7.

•			
	Α	В	D
	0	0	0
	0	1	1
	1	0	1
	1	1	1