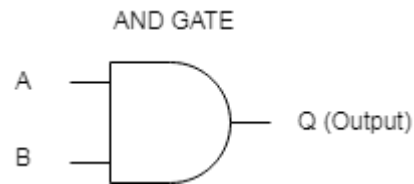
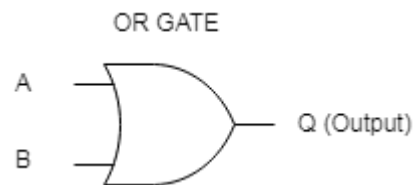


Logic and truth tables 1

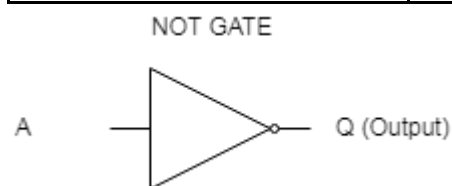
Task 1 - Truth tables for AND, OR, NOT gates



A	B	Q
0 (False)	0 (False)	0 (False)
1 (True)	0 (False)	0 (False)
0 (False)	1 (True)	0 (False)
1 (True)	1 (True)	1 (True)



A	B	Q
0 (False)	0 (False)	0 (False)
1 (True)	0 (False)	1 (True)
0 (False)	1 (True)	1 (True)
1 (True)	1 (True)	1 (True)

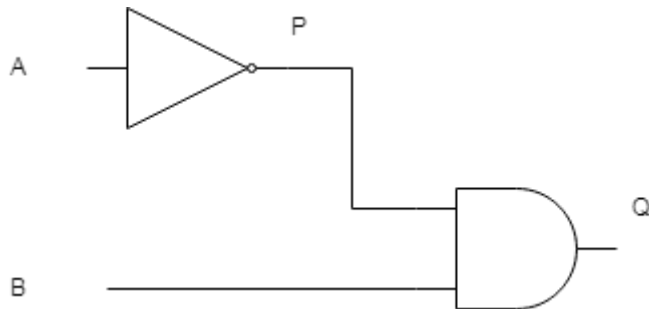


A	Q
0 (False)	1 (True)
1 (True)	0 (False)

Logic and truth tables 1

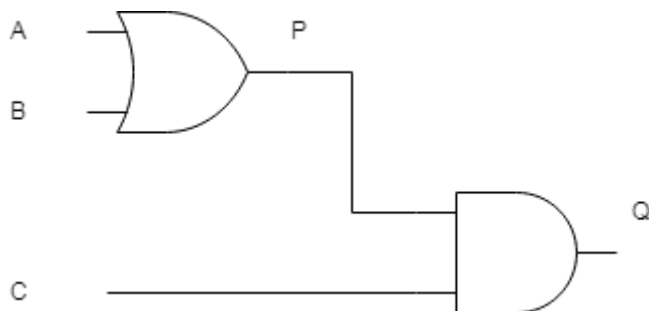
Task 2 - Multiple gates

1.



A	B	P	Q
0 (False)	0 (False)	1 (True)	0 (False)
1 (True)	0 (False)	0 (False)	0 (False)
0 (False)	1 (True)	1 (True)	1 (True)
1 (True)	1 (True)	0 (False)	0 (False)

2.



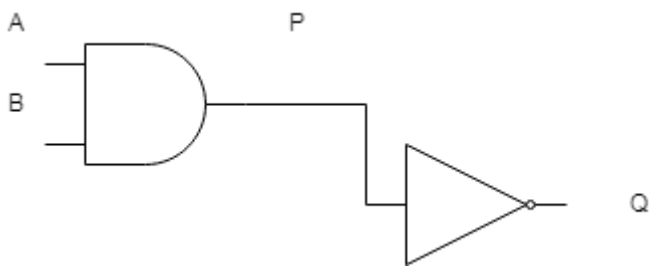
Insert your table here

A	B	C	P	Q
0	0	0	0	0

Logic and truth tables 1

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

3.

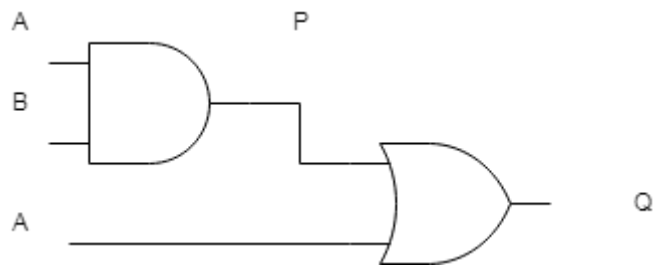


Insert your table here

A	B	P	Q
0	0	0	1
0	1	0	1
1	0	0	1
1	1	1	0

Logic and truth tables 1

4.

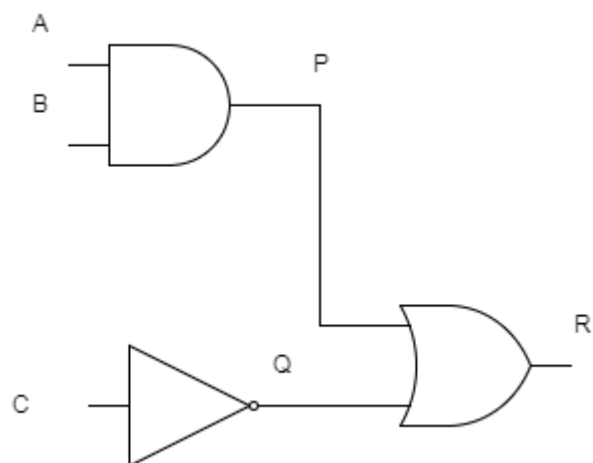


Insert your table here

Second A should be a C

A	B	C	P	Q
0	0	0	0	0
1	0	0	0	0
0	1	0	0	0
1	1	0	1	1
1	0	1	0	1
0	1	1	0	1
1	1	1	1	1

5.

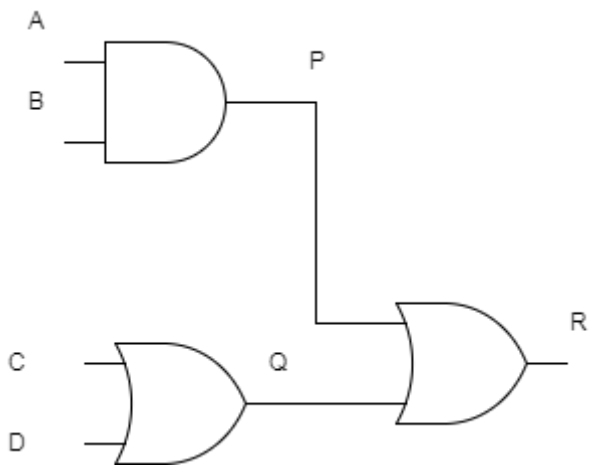


Insert your table here

Logic and truth tables 1

A	B	C	P	Q	R
0	0	0	0	1	1
1	0	0	0	1	1
0	1	0	0	1	1
0	0	1	0	0	0
1	1	0	1	1	1
0	1	1	0	0	0
1	0	1	0	0	0
1	1	1	1	0	1

6.



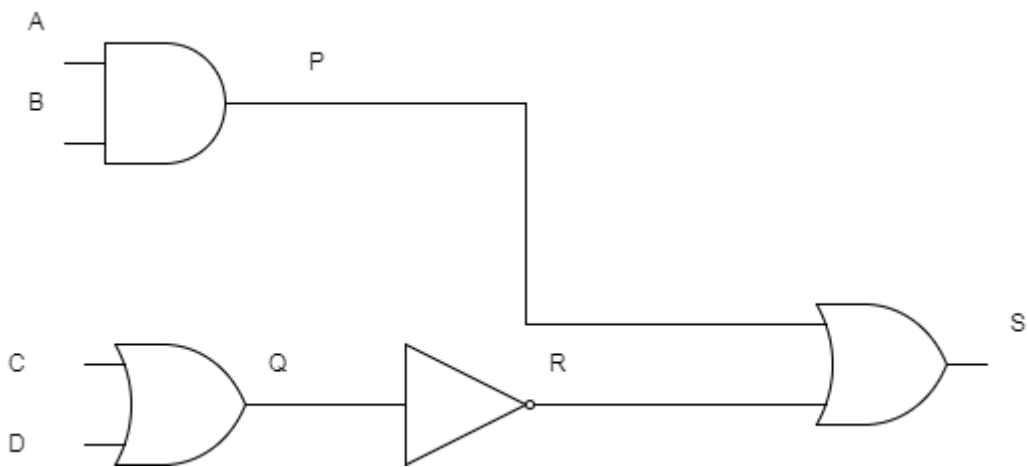
Insert your table here

A	B	C	D	P	Q	R
0	0	0	0	0	0	0
1	0	0	0	0	0	0
0	1	0	0	0	0	0
0	0	1	0	0	1	1
0	0	0	1	0	1	1
0	0	0	0	1	1	1

Logic and truth tables 1

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

7.



Insert your table here

A	B	C	D	P	Q	R	S
0	0	0	0	0	0	1	1
1	0	0	0	0	0	1	1
0	1	0	0	0	0	1	1
0	0	1	0	0	1	0	0
0	0	0	1	0	1	0	0
1	1	0	0	1	0	1	1
1	0	1	0	0	1	0	0
1	0	0	1	0	1	0	0
1	1	1	0	1	1	0	1

Logic and truth tables 1

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

8. [EXPANSION] Create your own 3 gate array and work out the truth table using Draw.IO

Insert your table here

9. [EXPANSION] Create your own 4 gate array and work out the truth table using Draw.IO

Insert your table here

10. [EXPANSION] Create your own 5 gate array and work out the truth table using Draw.IO

Insert your table here