01.1 Complete the truth table for the XOR logic gate

[2 marks]

A	B	A XOR B
0	0	0
0	1	1
1	0	1
1	1	0

1 mark for middle two, one mark for outer two

01.2 State the name of the logic gate represented by the following truth table

[1 mark]

Input A	Input B	Output
0	0	0
0	1	0
1	0	0
1	1	1

Name of logic gate: AND

01.3 Which logic gates are represented by the following expression:

[2 marks]

$$\overline{(A \oplus B)}$$

NOT (the overscore)

XOR (the cross in the circle) – no need to identify symbols for the marks

01.4 State what a NOT gate does

[1 mark]

Reverses the output – switches True to False and vice versa