Boolean Logic Test

1. Complete the following truth table.

Α	В	AND	OR	XOR	NOT A	NAND	NOR
0	0	0	0	0	1	1	1
0	1	0	1	1	1	1	0
1	0	0	1	1	0	1	0
1	1	1	1	0	0	0	0

2. Complete the following truth table for the Boolean expression

A XOR (B OR A)

Α	В	(B OR A)	A XOR (B OR A)
0	0	0	0
0	1	1	1
1	0	1	0
1	1	1	0

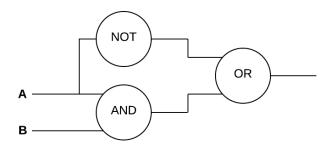
3. Create a truth table for the Boolean expression

A AND (NOT B OR A)

Α	В	NOT B	(NOT B OR A)	A AND
0	0	1	1	0
0	1	0	0	0
1	0	1	1	1
1	1	0	1	1

4. Create a logic diagram for the following Boolean expression.

(A AND B) OR NOT A



5. Create a logic diagram for the following Boolean expression.

(A AND B) OR (A XOR B)

