Boolean Logic Test

1. Complete the following truth table.

A	B	AND	OR	XOR	NOT A	NAND	NOR
0	0						
0	1						
1	0						
1	1						

2. Complete the following truth table for the Boolean expression

A XOR (B OR A)

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

3. Create a truth table for the Boolean expression

A AND (NOT B OR A)

A	B	NOT B	NOT B OR A	A AND (NOT B OR A)
0	0			
0	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)**