

# 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

$$A \text{ XOR } (B \text{ OR } A)$$

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

$$A \text{ AND } (\text{NOT } B \text{ OR } A)$$

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

$$(A \text{ AND } B) \text{ OR NOT } A$$

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

$$(A \text{ AND } B) \text{ OR } (A \text{ XOR } B)$$