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Lab 1 solution

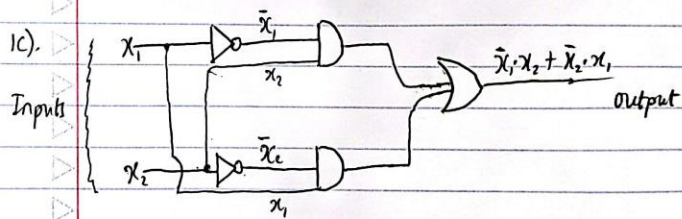1)a XOR Truth table.

| Inputs | | Expected |
X₁	X₂	output Y
0	0	0
1	0	1
0	1	1
1	1	0

1b). 2) XOR Logical equation:

$$Y = (\bar{X_1} \cdot X_2) + (\bar{X_2} \cdot X_1)$$

1c).

XOR combinational Circuit.

2. XOR Logical Equation

$Y = X_1 ' \cdot X_2 + X_1 \cdot X_2 '$

3. XOR Truth Table

X1 (Input)	X2 (Input)	Y (Output)
0	0	0

0	1	1
1	0	1
1	1	0

4.