TEJ201

Unit #4: Assignment #1

Name: Ashuin	Suggested D	ue Date:	Wed 08 Apr 20

Note: You will be advised as to how evaluation is to occur.

Using the Summary of Basic Logic Gates.pdf

→ Course Website → Unit 4 → April_2020→Mon_06_Apr_2020, fill in the charts
on Page 1 and Page 2

Table 1.1: Truth Tables for Logic Gates

Logic Function	Truth Table		
	Inputs		Output
	В	A	Y
AND	0	0	0
	0	1	0
	1	0	0
	1	1	1
OR	0	0	0
	0	1	1
	1	0	1
	1	1	
Inverter or NOT		0	1
		1	0
NAND	0	0	1
	0	1	1
	1	0	1
	1	1	0
NOR	0	0	1
	0	1	0
	1	0	0
	1	1	0
XOR	0	0	0
	0	1	1
	1	0	1
	1	1	0
XNOR	0	0	1
	0	1	0
	1	0	0
	1	1	

Summary of Logic Gates

Note: Use a straight edge to draw the circuit diagrams. Straight lines, or right angles only, please.

Logic Uni	y, please.	Oin it Diagram
Logic Function	Boolean	Circuit Diagram
AND	Expression	
AND	A·B=Y	B—————————————————————————————————————
OR		
	A+B=Y	A————Y B————————————————————————————————
Inverter		
or NOT	A = Ā	$A \longrightarrow \overline{A}$
NAND		A —
	A-B=Y	B
NOR	THE RESERVE	A
	A+13 = Y	B Y
XOR		
	A @ 13 = Y	A T
XNOR		
	A BB = Y	A TOOM Y