Practical II

Gate	Notation	Truth table			
-	Ā	Input Output 1 0 0 1			
3D ~	AB	A B Output 0 0 1 0 1 1 1 0 1 1 1 0			
	⊕	A B C Output 0 0 0 0 0 1 0 1 1 0 1 1 0 1 1 1 0 1 1 0 1 1 0 0 1 1 1			

С

Α	В	Carry	Sum
0	0	0	0
1	0	0	1
0	1	0	1
1	1	1	0

D

В	А	IN	Out0	Out1	Out2	Out3
0	0	0	0	0	0	0
0	0	1	1	0	0	0
0	1	0	0	0	0	0
0	1	0	0	1	0	0
1	0	0	0	0	0	0
1	0	0	0	0	1	0
1	1	0	0	0	0	0
1	1	0	0	0	0	1

A)

I) A logic gate in terms of circuitry, is an electronic circuit that use one or more input signals to create an output signal, the output signal is a boolean operation of the input signal.

Gate	Notation	Truth table			
		Input	Output		
//		0 0	1		
WH TO	 A+B	0 1	0		
20-		1 0	0		
/		1 1	0		
<u>i)</u>					
		АВС	Output		
		0 0 0	1		
	A.B.C	0 0 1	1		
		0 1 0	1		
		0 1 1	1		
		1 0 0	1		
ii) II		1 0 1	1		
		1 1 0	1		
		1 1 1	0		

C)

В	А	x0	x1	x2	x3	Х
0	0	0				0
0	0	1				1
0	1		0			0
0	1		1			1

1	0		0		0
1	0		1		1
1	1			0	0
1	1			1	1

3

Ripple adder in logic.ly