Pre-Lab Submission Page

Half adder truth table

	A	В	С	S	Decimal
	0	0	0	0	0
	0	1	0	versame	10
	1	0	0	1	10
	1	1		0	210
•					

$$C = A \cdot B$$

 $S = A' \cdot B + AB'$

2-bit adder truth table

C_{in}	A_2A_1	B_2B_1	$C_{out} S_2 S_1$
0	00	00	0 0 0
0	00	01	001
0	01	01	010
0	10	01	011
0	10	10	100
1	10	10	101
1	11	11	111

Full adder truth table

	C_{in}	A	В	Cout	S	Decimal	
	0	0	0	0	0	0	
	0	0	1	0	1	1,0	
	0	1	0	D	J	110	
	0	1	1	1	0	210	
	1	0	0	0	1	10	
	1	0	1	1	0	210	
	1	1	0	1	0	210	
	1	1	1	-		3,0	
S= x'y'Z+ x'y z'+ xy'z'+ xyz							
	C= XY+XZ+ YZ						

Decimal equivalent

C_{in}	A	В	Out
0	0	0	0
0	0	1	1
0	(0	210
0	il		310
l	0	0	410
1	0	}	510
l	-	1	7,0